Pacific Sentinel
Gold Corp.

1020 · 800 W Pender St
Vancouver BC
Canada V6C 2V6
Tel 604 684 · 6365
Fax 604 684 · 8092
Toll Free 1 800 667 · 2114

120161

October 27, 1995

Whitehorse Mining Recorder,
Elijah Smith Building
Room 102 - 300 Main Street
Whitehorse, Yukon
Y1A 2B5

Attn.: Joanne Oberg

RE: Information Request Casino Placer Assessment Report - Bill LeBarge, Placer Geologist

Dear Ms. Oberg:

Attached please find the additional information requested by Bill Lebarge in order to grant the Casino Placer Assessment Report assessment credit. Appended information includes: the results of the sample analyses conducted by Chemex Labs and Brenda Process Technologies; references to glacial limits maps; and two maps indicating the distribution of placer gold sample sites and anomalies. A brief interpretation and summary of the placer geology based on the results obtained from the trenches, drillholes and test pits follows.

In order to further define the location of placer gold anomalies in the Casino Creek valley a multi-faceted placer gold exploration program was employed. The exploration program involved the systematic collection of soil and rock samples, geochemical analyses of the samples and detailed geological logging of the test pits and drill holes located in the Casino Creek valley. The program was successful in outlining three areas in the Casino Creek Valley that are anomalous in placer gold (refer to attached map titled Placer Gold Anomalies - Casino Creek Drainage).

Soil and rock samples were obtained from excavated drill pads and test pits (refer to attached map titled Placer Gold Sample Sites - Casino Creek Drainage). The soil material sampled from the test pits was generally residual in nature, orange brown in color, poorly to moderately sorted and overlain by colluvium and organic cover. Placer rock samples collected were generally colluvial in origin although alluvial and residual bedrock samples were also collected. In several test pits the colluvium had the appearance of being fluvially reworked which made origin classification difficult.

Soil samples collected were sent to Chemex Labs for 32 element ICP, gold geochemistry analysis, and cyanide digestion followed by gold and copper analyses of leachate. Placer gravel samples were sieved, at the Casino Site, until approximately five kilograms of -2 cm (-3/4 inch) material was obtained (all volumes were documented). These sieved samples were then sent to Brenda Process Technologies where a Knelson Concentrator was used to obtain a rough gravity concentrate. The final concentrates were sent to Chemex Labs for complete fusion gold assay. A representative sample of the pan tailings was also submitted to Chemex Labs for a one assay tonne gold analysis. Brenda Process Technology produced a summary table of the calculated head grades and Chemex Lab assay results. This summary table is attached.

Detailed geological logs, of the 109 test pits excavated in the Casino Creek valley, indicate that sixty-five percent (65%) of the test pits excavated encountered bedrock. The average depth to bedrock, or thickness of placer gravels, in these test pits was some 2.5 metres. Forty-five percent (45%) of the test pits excavated did not achieve bedrock because of refusal due to frozen ground (26 test pits), flooding (2 test pits) or due to the fact that placer gravels (colluvium) encountered were thicker than the maximum extension of the excavator arm (9 test pits).

The placer gravels encountered in the test pits were generally of similar, or of the same, composition as the underlying bedrock (Dawson Range Batholith, Yukon Metamorphic Complex and Casino Intrusion rocks). This relationship may be explained in part by the fact that the area of the Casino Deposit and the Casino Creek valley were not subject to continental glaciation (Jackson, 1991). This implies that placer gravels are located relatively in-situ. Fluvial reworking was noted in several test pits and seemed to be concentrated in the lower reaches of the Casino Creek Valley.

Placer gravels encountered exhibited a downward coarsening trend. These gravels were generally clast supported with the amount of fine material (sands, clays and silts) exceeding the amount of coarse grained material (boulders, cobbles and pebbles). The average ratio of fines to coarse material was calculated to be in the order to three to one.

Three areas anomalous in placer gold were outlined in the Casino Creek valley during the execution of the 1994 Placer Exploration Program as indicated on the map titled Placer Gold Anomalies - Casino Creek Drainage. A brief description of each of these areas follows.

Anomalous Area Number One is located on the Case 16, Case 17 and Case 18 placer claims on that portion of Casino Creek that lies between drillholes 94-345 and 94-347. Test pits TP94-54 and TP94-57, which lie between these two drill holes, were unable to achieve bedrock; however, drill hole data indicates that placer gravels in this area are approximately 15 metres thick. The major identified rock type in the placer gravels in the northerly portion of this area was Dawson

Range Granodiorite and in the southern portion the gravels were comprised of Yukon Metamorphic Group Gneiss, Dawson Range Granodiorite and Dawson Range Diorite. Bedrock encountered in the northerly part of this area was Yukon Metamorphic Gneiss and in the southern part of this area was Dawson Range Granodiorite. The strike length of this anomaly is approximately 200 metres.

Anomalous Area Number Two is located on the Case 39 to Case 40 placer claims in that portion of Casino Creek that lies between TP94-21 and TP94-106. Placer gravels are generally composed of oxidized Dawson Range Granodiorite in this area and vary in thickness from 2.5 metres at TP94-21 to 5.0 metres at TP94-29. This anomaly has a strike length of approximately 600 metres and will require further test pits to evaluate continuity of both placer gravels and gold content.

Anomalous Area Number Three is located on the Case 24 to Case 28 placer claims on that portion of Casino Creek that lies between TP94-91 and TP94-45. Test pit logs indicate that placer gravels average greater than 3.5 metres thickness, and are composed of oxidized unsorted Dawson Range Granodiorite material. The strike length of this anomaly is some 300 metres.

The particle size of liberated gold grains present in the oxidized placer samples taken immediately adjacent to the Casino Deposit in the Casino Creek valley ranges from less than 50 up to 200 microns. The "Flour" nature of the gold present in the Casino Creek Valley may render extraction by conventional placer mining techniques inefficient. At present, Pacific Sentinel Gold geologists and metallurgical staff are investigating other methods of concentrating and extracting the placer gold present.

I trust the above and appended information will satisfy the request for additional information put forth by Bill LeBarge, Placer Geologist.

Thank you in advance for applying the placer geological assessment credit to the Case Placer Claims. If you have any additional questions or comments please do not hesitate to contact me at the above address.

Sincerely yours,
PACIFIC SENTINEL GOLD CORP.

Lena K. Brommeland, B.Sc.
Land Manager

CASINO PROJECT ASSESSMENT REPORT

1994 PLACER EXPLORATION PROGRAM

WHITEHORSE MINING DISTRICT
YUKON TERRITORY
CANADA

120161

N.T.S. 115/J10
LATITUDE 62°44' N
LONGITUDE 138°50' W

PLACER LEASES

9008, 9036, 9050, 9053, 9056, 9058, 9060, 9061, 9062, 9063, 9074

PLACER CLAIMS	GRANT NUMBERS
ANGEL 1 - 3	P11628 - P11630
ROY 1 & 2	43200, 43221
DISC AL 1	43201
BOB	03756
CREEK 1 - 10	P03815 - P03824
JO	P32133
CASE 1 - 58	P41546 - P41603
CASE 59 - 64	P41626 - P41631
CASE 65 - 67	P41668 - P41670
CASE 68 - 72	P41632 - P41636
CASE 73	P41671
CASE 74 -87	P41637 - P41650

OWNER

Pacific Sentinel Gold Corp.
1020 - 800 West Pender Street
Vancouver, B.C.
V6C 2V6

August 15, 1995

By

L. K. Brommeland, B.Sc.



TABLE OF CONTENTS

		PAGE
1.0	Summary	1
2.0	Introduction	3
3.0	Location and Access	4
4.0	Physiography and Climate	5
5.0	Claim Data	6
6.0	Exploration History	8
7.0	Regional Geology	10
8.0	Property Geology	12
9.0	Exploration Program	18
10.0	Conclusions and Recommendations	20
11.0	References	21
12.0	Statement of Costs	23
13.0	Statement of Qualifications	24

LIST OF FIGURES

		FOLLOWING PAGE
1	Site Location Map	3
2	Air Photo of Casino Deposit Area (Patton Hill)	3
3	Casino Road Access Routes	4
4	Outline of Casino Mineral Claims	6
5	Outline of Casino Placer Claims and Leases	6
6	Regional Geology Casino	10
7	Bedrock Property Geology	12
8	Geological Cross Sections	12
9	Specific Gravity Plot of Field Determinations in Mineralogical Zones	20
10	Oxide Gold Zone Thickness Contours	20
11	Oxide Gold Cumulative Assay Intervals ≥ 0,4 g/t Au	20

LIST OF TABLES

		FOLLOWING PAGE
1	Mineral Claims	6
2	Placer Leases	7
3	Placer Claims	7
4	Major Geological Units	10
5	Whole Rock Chemical Composition of Casino Complex and Dawson Range Intrusive Units	11

LIST OF GRAPHS

		FOLLOWING PAGE
1	Conserved Element Test (P vs. Ti)	11

LIST OF MAPS

		FOLLOWING PAGE
1	Location Map - 1994 Trenches and Placer Leases	In Pocket
2	Location Map - 1994 Test Pits and Placer Claims	In Pocket

APPENDICES

I Placer Lease Drill Logs
II Placer Lease Trench Logs
III Placer Claims Test Pit Logs

1.0 SUMMARY

The Casino Gold-Copper-Molybdenum Project is located 300 kilometres northwest of Whitehorse, Yukon in the Whitehorse Mining District. The Project consists of 795 mineral claims, 105 placer claims and 11 placer leases located in the Dawson Range mountains of south-central Yukon. Pacific Sentinel Gold Corp. holds a 100% interest in the claims and leases subject to a 5% net profits interest to Archer, Cathro & Associates (1981) Ltd.

The Project may be accessed year round by fixed wing aircraft, during the summer and fall by barge and during the winter by one of two winter road routes. The Casino Airstrip is a gravel airstrip that is suitable for aircraft up to DC-3 in size. A barge with a 45 tonne load capacity is based at Minto and a barge landing area, located 19 road km from the Project, is established on the southern bank of the Yukon River. The shorter of two winter road routes originates in Carmacks, 194 road km south-east of the Project, while the longer originates in Burwash Landing, 224 road km south of the Project.

The Casino Deposit, situated within the greater Casino Project claim area, is recognized as a large gold-copper-molybdenum porphyry deposit. Preliminary geological reserves for the Casino Deposit are: oxide gold zone in the leached cap combined with the supergene oxide-copper zone - 28 million tonnes grading 0.68 g/t Au, 0.11% Cu, and 0.024% Mo; supergene sulphide zone - 86 million tonnes grading 0.41 g/t Au, 0.43% Cu and 0.031% Mo; hypogene zone - 445 million tonnes grading 0.27 g/t Au, 0.23% Cu and 0.024% Mo.

Pacific Sentinel Gold Corp. conducted physical work during the months of July and August, 1994, on the eleven (11) placer leases in the Project area. This report documents the physical work program which consisted of overburden drilling as well as excavation, mapping and reclamation of trenches.

This report also documents physical assessment work performed on the eighty-seven (87) placer claims that were staked, in the Project area, during the months of July and August, 1994. Placer claims were staked over existing placer leases resulting in the conversion of these leases to claims. Physical work conducted during the months of July through October, 1994, included the excavation, mapping, sampling, assaying and reclamation of one hundred and nine trenches.

The above physical programs were successful in identifying areas within the leases and claims that contained placer gold and provided geological, geotechnical and environmental information on the proposed waste rock storage, mill, heap leach pad, and tailings storage dam sites. This information will be necessary to prepare the Casino Deposit for future mine permitting.

2.0 INTRODUCTION

The Casino Project is located in the Whitehorse Mining District approximately 300 air kilometres northwest of Whitehorse, Yukon (Figure 1). The Casino Project claim group, 127.3 square kilometres in area, consists of 795 mineral claims, 105 placer claims and 11 placer leases, located in the Dawson Range mountains of west central Yukon.

In 1994, Pacific Sentinel Gold Corp. conducted an exploration program involving overburden drilling as well as the excavation, mapping, sampling, assaying and reclamation of trenches on the Project placer claims and leases. The purpose of the program was to investigate the distribution of placer gold in areas adjacent to the Casino Deposit (Figure 2) that might be suitable for proposed waste rock storage, mill, heap leach pad and tailings dam sites. The program also provided geological, geotechnical and environmental information for the proposed mine facilities.

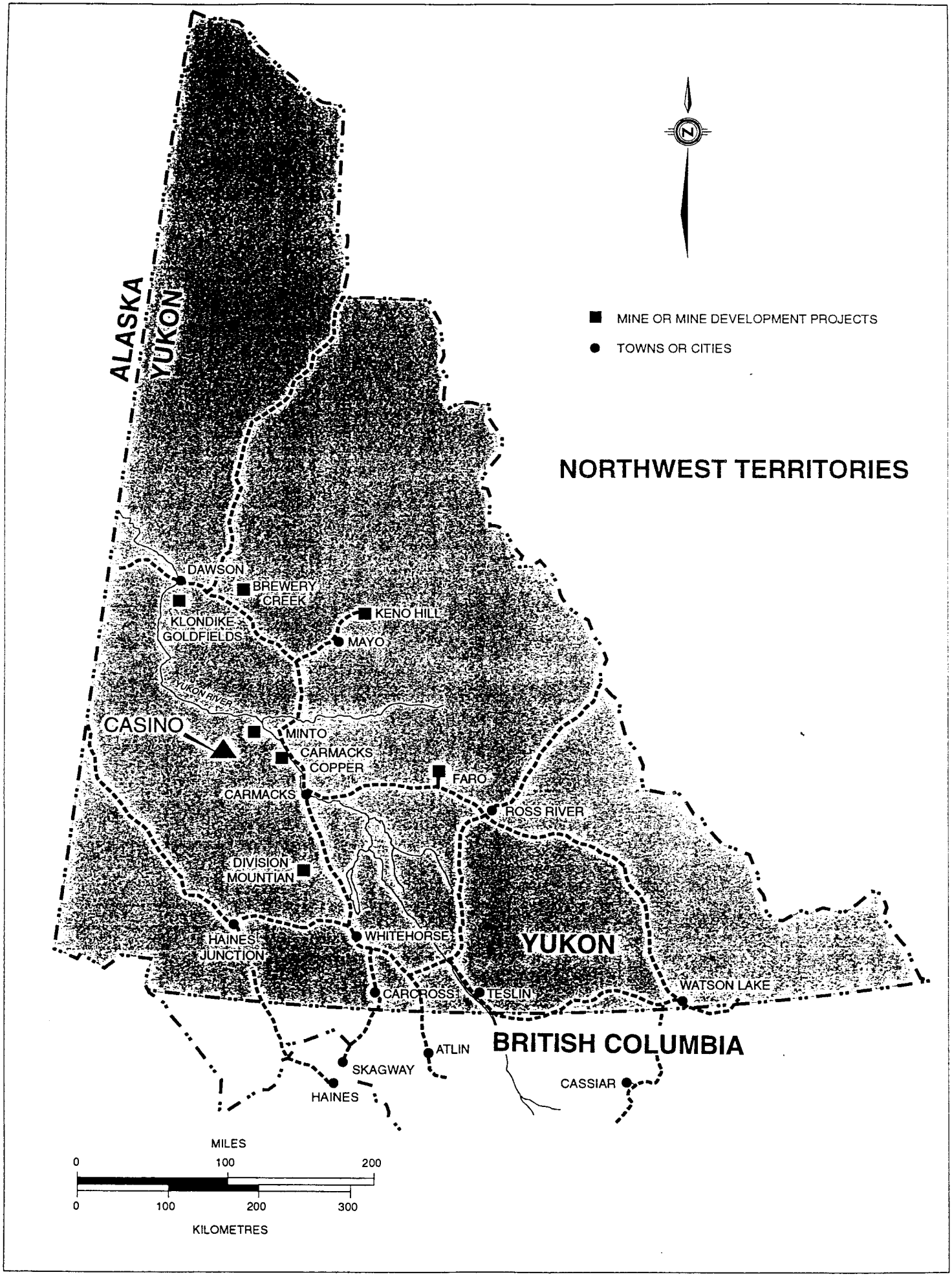


FIGURE 1 SITE LOCATION MAP



FIGURE 2 AIR PHOTO OF CASINO DEPOSIT AREA (PATTON HILL)

3.0 LOCATION AND ACCESS

The Casino Project is located in the Whitehorse Mining District in west central Yukon approximately 300 kilometres northwest of Whitehorse, Yukon (Figure 3). The Project is situated at latitude 62°44' N and Longitude 138°50' W on N.T.S. map sheet 115J/10.

The Project is accessible year-round via fixed wing aircraft. The Casino Airstrip is a gravel strip on which aircraft up to DC-3 in size may land. A variety of aircraft are available for charter in Whitehorse which lies approximately 300 kilometres to the southwest.

From late spring through early fall, surface access to the property is possible by utilizing a 45 tonne capacity barge from Minto to a barge landing area situated on the southern bank of the Yukon River. The barge landing area is situated 19 km road from the Casino camp. Surface access is also possible by two winter road routes. The shorter route extends 194 km northwest from Carmacks: 82 km along the Freegold Road (two-wheel drive during the summer and fall); 40 km along the Casino Trail (four-wheel drive); and 72 km along a bulldozer trail. The other route extends north 224 km along a bulldozer trail from Burwash Landing (Km 1762) on the Alaska Highway.

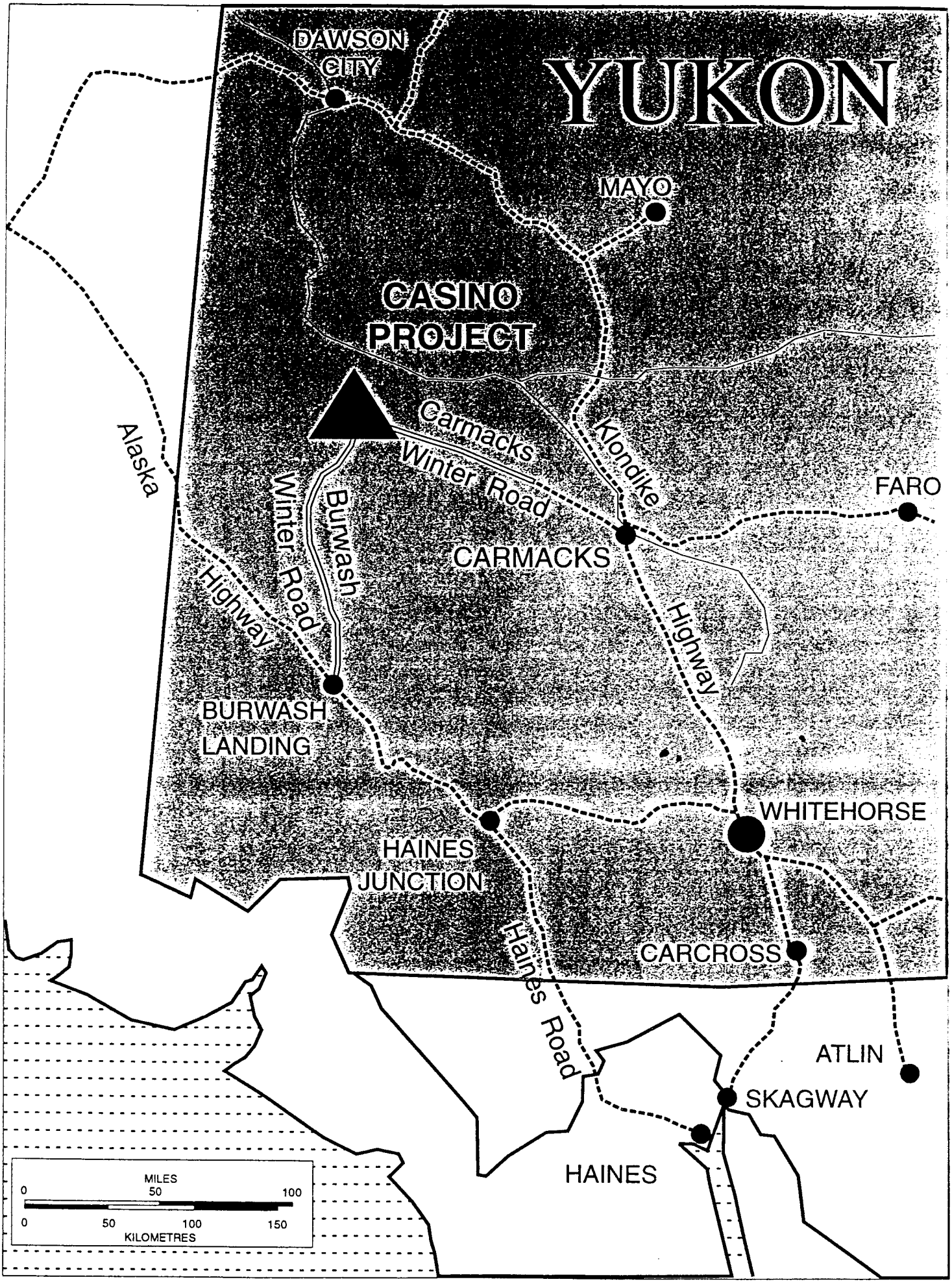


FIGURE 3 CASINO ROAD ACCESS ROUTES

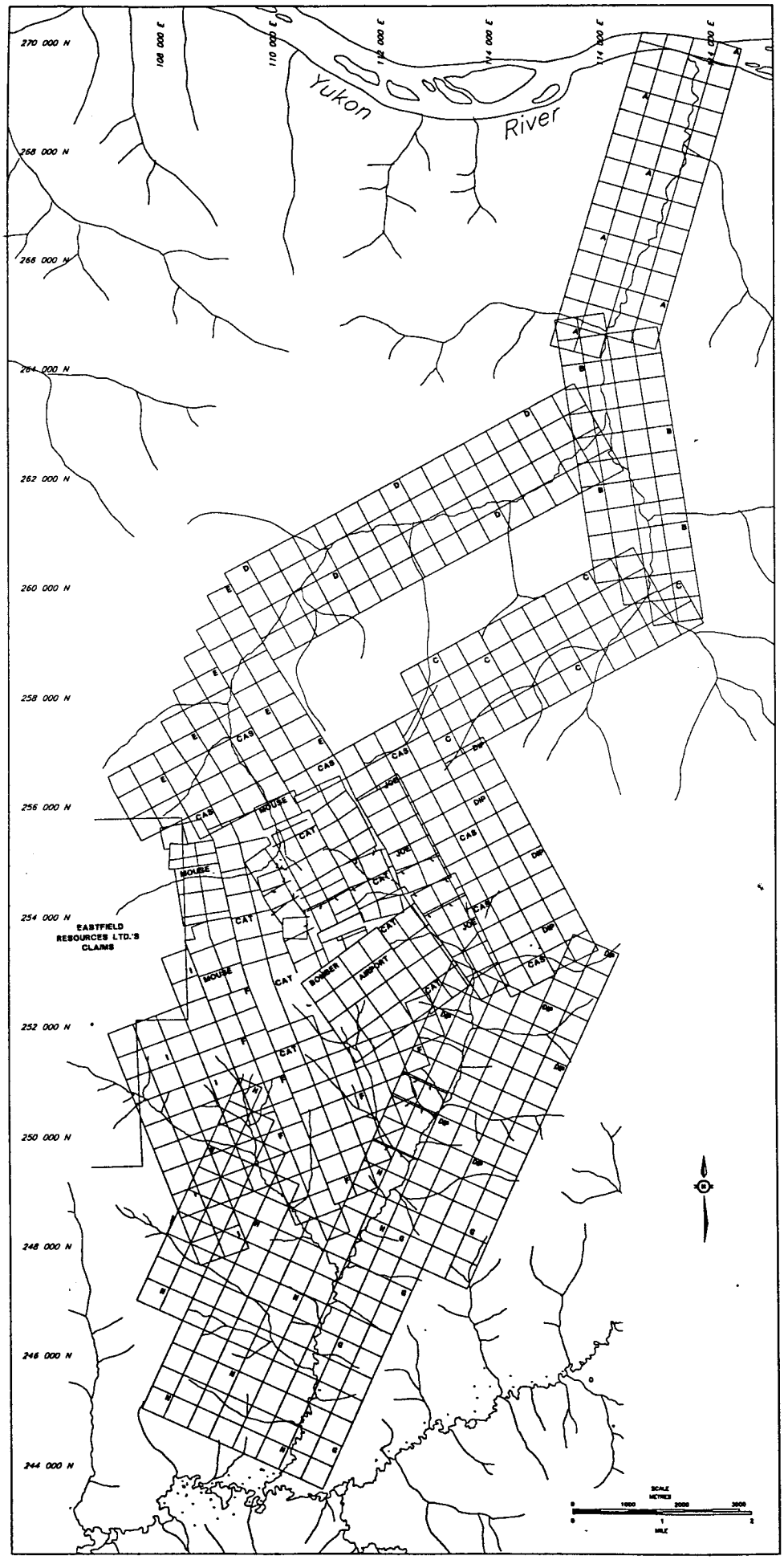


FIGURE 4 OUTLINE OF CASINO MINERAL CLAIMS

4.0 PHYSIOGRAPHY AND CLIMATE

The Casino Project is located in west central Yukon in the northwesterly trending Dawson Range mountains. The Dawson range forms a series of well rounded ridges and hills. Most crests in plutonic rocks are capped by tors that reach a maximum elevation of 1675 metres above mean sea level. The ridges rise above the Yukon Plateau, a peneplain at approximately 1200 metres above sea level, which is incised deeply by mature drainage of the Yukon River watershed. Most of the Dawson Range escaped Pleistocene continental glaciation; minor alpine glaciation produced small cirques and terminal moraines.

The climate in the Dawson Range is subarctic with an annual precipitation of 40 centimetres. Permafrost is widespread but discontinuous. Outcrop is rare except on hill tops and rugged ridge crests. The residual nature of much of the rubble on upper slopes allows for generalized geological mapping and good geochemical and geophysical interpretation. Most broad valleys are filled with thick alpine glacial debris and alluvium, which mask bedrock geology and associated geochemical and geophysical signatures.

5.0 CLAIM DATA

The Casino claim group, 127.3 square kilometres in area, is located in the Whitehorse Mining District on N.T.S. map sheets 115J/10 and 115J/15. Pacific Sentinel Gold Corp. holds a 100% interest in the claim group subject to a 5% net profits interest to Archer, Cathro & Associates (1981) Ltd.

5.1 Mineral Claim Tenure

The seven hundred and ninety-five mineral claims, totaling 126.6 square kilometres, overlie the Casino Deposit area, the access road to the Yukon River, the airstrip, and the vicinities of the proposed plant site, waste rock storage, tailings storage, and tailings containment facilities (Figure 4). A complete listing of the mineral claims follows in Table 1.

5.2 Placer Lease and Claim Tenure

One hundred and five placer claims and eleven placer leases cover the Casino Deposit, the auriferous Casino and Canadian Creeks, the proposed tailings storage and containment facilities, and a large part of the proposed heap leach storage areas (Figure 5). There is overlap of placer claims and leases resulting in an effective area of placer coverage of approximately 41.4 square kilometres

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
A 01	YB 37009	25-Mar-2002
A 02	YB 37010	25-Mar-2002
A 03	YB 37011	25-Mar-2002
A 04	YB 37012	25-Mar-2002
A 05	YB 37013	25-Mar-2002
A 06	YB 37014	25-Mar-2002
A 07	YB 37015	25-Mar-2002
A 08	YB 37016	25-Mar-2002
A 09	YB 37017	25-Mar-2002
A 10	YB 37018	25-Mar-2002
A 11	YB 37019	25-Mar-2002
A 12	YB 37020	25-Mar-2002
A 13	YB 37021	25-Mar-2002
A 14	YB 37022	25-Mar-2002
A 15	YB 37023	25-Mar-2002
A 16	YB 37024	25-Mar-2002
A 17	YB 37025	25-Mar-2002
A 18	YB 37026	25-Mar-2002
A 19	YB 37027	25-Mar-2002
A 20	YB 37028	25-Mar-2002
A 21	YB 37029	25-Mar-2002
A 22	YB 37030	25-Mar-2002
A 23	YB 37031	25-Mar-2002
A 24	YB 37032	25-Mar-2002
A 25	YB 37033	25-Mar-2002
A 26	YB 37034	25-Mar-2002
A 27	YB 37035	25-Mar-2002
A 28	YB 37036	25-Mar-2002
A 29	YB 37037	25-Mar-2002
A 30	YB 37038	25-Mar-2002
A 31	YB 37039	25-Mar-2002
A 32	YB 37040	25-Mar-2002
A 33	YB 37041	25-Mar-2002
A 34	YB 37042	25-Mar-2002
A 35	YB 37043	25-Mar-2002
A 36	YB 37044	25-Mar-2002
A 37	YB 37045	25-Mar-2002
A 38	YB 37046	25-Mar-2002
A 39	YB 37047	25-Mar-2002
A 40	YB 37048	25-Mar-2002
A 41	YB 37049	25-Mar-2002
A 42	YB 37050	25-Mar-2002
A 43	YB 37051	25-Mar-2002
A 44	YB 37052	25-Mar-2002
A 45	YB 37053	25-Mar-2002
A 46	YB 37054	25-Mar-2002
A 47	YB 37055	25-Mar-2002
A 48	YB 37056	25-Mar-2002
A 49	YB 37057	25-Mar-2002
A 50	YB 37058	25-Mar-2002
A 51	YB 37059	25-Mar-2002
A 52	YB 37060	25-Mar-2002
A 53	YB 37061	25-Mar-2002
A 54	YB 37062	25-Mar-2002
AIRPORT 1	56983	25-Mar-2001
AIRPORT 2	56990	25-Mar-2001
AIRPORT 3	56984	25-Mar-2001
AIRPORT 4	56991	25-Mar-2001
AIRPORT 5	56985	25-Mar-2001
AIRPORT 6	56992	25-Mar-2001
AIRPORT 7	56986	25-Mar-2001
AIRPORT 8	56993	25-Mar-2001
B 01	YB 37063	25-Mar-2002
B 02	YB 37064	25-Mar-2002
B 03	YB 37065	25-Mar-2002
B 04	YB 37066	25-Mar-2002
B 05	YB 37067	25-Mar-2002
B 06	YB 37068	25-Mar-2002
B 07	YB 37069	25-Mar-2002
B 08	YB 37070	25-Mar-2002
B 09	YB 37071	25-Mar-2002
B 10	YB 37072	25-Mar-2002
B 11	YB 37073	25-Mar-2002
B 12	YB 37074	25-Mar-2002
B 13	YB 37075	25-Mar-2002
B 14	YB 37076	25-Mar-2002
B 15	YB 37077	25-Mar-2002
B 16	YB 37078	25-Mar-2002
B 17	YB 37079	25-Mar-2002
B 18	YB 37080	25-Mar-2002
B 19	YB 37081	25-Mar-2002
B 20	YB 37082	25-Mar-2002
B 21	YB 37083	25-Mar-2002
B 22	YB 37084	25-Mar-2002
B 23	YB 37085	25-Mar-2002
B 24	YB 37086	25-Mar-2002
B 25	YB 37087	25-Mar-2002
B 26	YB 37088	25-Mar-2002
B 27	YB 37089	25-Mar-2002
B 28	YB 37090	25-Mar-2002
B 29	YB 37091	25-Mar-2002
B 30	YB 37092	25-Mar-2002
B 31	YB 37093	25-Mar-2002
B 32	YB 37094	25-Mar-2002
B 33	YB 37095	25-Mar-2002
B 34	YB 37096	25-Mar-2002
B 35	YB 37097	25-Mar-2002
B 36	YB 37098	25-Mar-2002

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
B 37	YB 37099	25-Mar-2002
B 38	YB 37100	25-Mar-2002
B 39	YB 37101	25-Mar-2002
B 40	YB 37102	25-Mar-2002
B 41	YB 37103	25-Mar-2002
B 42	YB 37104	25-Mar-2002
B 43	YB 37105	25-Mar-2002
B 44	YB 37106	25-Mar-2002
B 45	YB 37107	25-Mar-2002
B 46	YB 37108	25-Mar-2002
B 47	YB 37109	25-Mar-2002
BOMBER 1	56979	25-Mar-2002
BOMBER 2	56987	25-Mar-2002
BOMBER 3	56980	25-Mar-2002
BOMBER 5	56981	25-Mar-2002
BOMBER 6	56988	25-Mar-2002
BOMBER 7	56982	25-Mar-2001
BOMBER 8	56989	25-Mar-2001
C 01	YB 37110	25-Mar-2002
C 02	YB 37111	25-Mar-2002
C 03	YB 37112	25-Mar-2002
C 04	YB 37113	25-Mar-2002
C 05	YB 37114	25-Mar-2002
C 06	YB 37115	25-Mar-2002
C 07	YB 37116	25-Mar-2002
C 08	YB 37117	25-Mar-2002
C 09	YB 37118	25-Mar-2002
C 10	YB 37119	25-Mar-2002
C 11	YB 37120	25-Mar-2002
C 12	YB 37121	25-Mar-2002
C 13	YB 37122	25-Mar-2002
C 14	YB 37123	25-Mar-2002
C 15	YB 37124	25-Mar-2002
C 16	YB 37125	25-Mar-2002
C 17	YB 37126	25-Mar-2002
C 18	YB 37127	25-Mar-2002
C 19	YB 37128	25-Mar-2002
C 20	YB 37129	25-Mar-2002
C 21	YB 37130	25-Mar-2002
C 22	YB 37131	25-Mar-2002
C 23	YB 37132	25-Mar-2002
C 24	YB 37133	25-Mar-2002
C 25	YB 37134	25-Mar-2002
C 26	YB 37135	25-Mar-2002
C 27	YB 37136	25-Mar-2002
C 28	YB 37137	25-Mar-2002
C 29	YB 37138	25-Mar-2002
C 30	YB 37139	25-Mar-2002
C 31	YB 37140	25-Mar-2002

Claim Name	Record Number	Expiry Date
C 32	YB 37141	25-Mar-2002
C 33	YB 37142	25-Mar-2002
C 34	YB 37143	25-Mar-2002
C 35	YB 37144	25-Mar-2002
C 36	YB 37145	25-Mar-2002
C 37	YB 37146	25-Mar-2002
C 38	YB 37147	25-Mar-2002
C 39	YB 37148	25-Mar-2002
C 40	YB 37149	25-Mar-2002
C 41	YB 37150	25-Mar-2002
C 42	YB 37151	25-Mar-2002
C 43	YB 37152	25-Mar-2002
C 44	YB 37153	25-Mar-2002
C 45	YB 37154	25-Mar-2002
C 46	YB 37155	25-Mar-2002
CAS 01	YB 36588	25-Mar-2001
CAS 02	YB 36589	25-Mar-2001
CAS 03	YB 36590	25-Mar-2001
CAS 04	YB 36591	25-Mar-2001
CAS 05	YB 36592	25-Mar-2001
CAS 06	YB 36593	25-Mar-2001
CAS 07	YB 36594	25-Mar-2001
CAS 08	YB 36595	25-Mar-2001
CAS 09	YB 36596	25-Mar-2001
CAS 10	YB 36597	25-Mar-2001
CAS 11	YB 36598	25-Mar-2001
CAS 12	YB 36599	25-Mar-2001
CAS 13	YB 36600	25-Mar-2001
CAS 14	YB 36601	25-Mar-2001
CAS 15	YB 36602	25-Mar-2001
CAS 16	YB 36603	25-Mar-2001
CAS 17	YB 36604	25-Mar-2001
CAS 18	YB 36605	25-Mar-2001
CAS 19	YB 36606	25-Mar-2001
CAS 20	YB 36607	25-Mar-2001
CAS 21	YB 36608	25-Mar-2001
CAS 22	YB 36609	25-Mar-2001
CAS 23	YB 36610	25-Mar-2001
CAS 24	YB 36611	25-Mar-2001
CAS 25	YB 36612	25-Mar-2001
CAS 26	YB 36613	25-Mar-2001
CAS 27	YB 36614	25-Mar-2001
CAS 28	YB 36615	25-Mar-2001
CAS 29	YB 36616	25-Mar-2001
CAS 30	YB 36617	25-Mar-2001
CAS 31	YB 36618	25-Mar-2001
CAS 32	YB 36619	25-Mar-2001
CAS 33	YB 36620	25-Mar-2001
CAS 34	YB 36621	25-Mar-2001

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
CAS 35	YB 36622	25-Mar-2001
CAS 36	YB 36623	25-Mar-2001
CAS 37	YB 36624	25-Mar-2001
CAS 38	YB 36625	25-Mar-2001
CAS 39	YB 36626	25-Mar-2001
CAS 40	YB 36627	25-Mar-2001
CAS 41	YB 36628	25-Mar-2001
CAS 42	YB 36629	25-Mar-2001
CAT 01	92201	25-Mar-2001
CAT 01 FRACTION	Y 51846	25-Mar-2003
CAT 02	92202	25-Mar-2001
CAT 02 FRACTION	Y 51847	25-Mar-2003
CAT 03	92203	25-Mar-2001
CAT 03 FRACTION	Y 39601	25-Mar-2003
CAT 04	92204	25-Mar-2001
CAT 04 FRACTION	Y 39602	25-Mar-2003
CAT 05	92205	25-Mar-2002
CAT 06	92206	25-Mar-2002
CAT 07	92207	25-Mar-2002
CAT 08	92208	25-Mar-2002
CAT 09	92209	25-Mar-2002
CAT 10	92210	25-Mar-2002
CAT 11	92211	25-Mar-2002
CAT 12	92212	25-Mar-2002
CAT 13	92213	25-Mar-2001
CAT 14	92214	25-Mar-2001
CAT 15	92215	25-Mar-2001
CAT 16	92216	25-Mar-2001
CAT 17	92217	25-Mar-2001
CAT 18	92218	25-Mar-2001
CAT 19	92219	25-Mar-2001
CAT 20	92220	25-Mar-2001
CAT 21	92221	25-Mar-2002
CAT 22	92222	25-Mar-2002
CAT 22 FRACTION	Y 36686	25-Mar-2002
CAT 23	92764	25-Mar-2002
CAT 23 FRACTION	Y 39603	25-Mar-2001
CAT 24	92765	25-Mar-2002
CAT 24 FRACTION	Y 51848	25-Mar-2001
CAT 25	92766	25-Mar-2001
CAT 26	92767	25-Mar-2001
CAT 26 FRACTION	Y 51849	25-Mar-2003
CAT 27	92768	25-Mar-2001
CAT 28	92769	25-Mar-2001
CAT 28 FRACTION	YB 36999	25-Mar-2002
CAT 29	92770	25-Mar-2001
CAT 30	92771	25-Mar-2001
CAT 30 FRACTION	YB 37000	25-Mar-2002
CAT 31	92772	25-Mar-2001

Claim Name	Record Number	Expiry Date
CAT 32	92773	25-Mar-2001
CAT 32 FRACTION	YB 37001	25-Mar-2002
CAT 33	92774	25-Mar-2001
CAT 34	92775	25-Mar-2001
CAT 34 FRACTION	YB 37002	25-Mar-2002
CAT 35	92776	25-Mar-2001
CAT 36	92777	25-Mar-2001
CAT 37	92778	25-Mar-2001
CAT 38	92779	25-Mar-2001
CAT 39	92780	25-Mar-2001
CAT 40	92781	25-Mar-2001
CAT 41	92782	25-Mar-2001
CAT 42	92783	25-Mar-2001
CAT 47	95724	25-Mar-2002
CAT 47 FRACTION	Y 36687	25-Mar-2003
CAT 48	95725	25-Mar-2002
CAT 48 FRACTION	Y 36688	25-Mar-2003
CAT 49	95726	25-Mar-2002
CAT 50	95727	25-Mar-2002
CAT 51	95728	25-Mar-2001
CAT 52	95729	25-Mar-2001
CAT 53	95730	25-Mar-2000
CAT 54	95731	25-Mar-2000
CAT 55	95732	25-Mar-2000
CAT 56	95733	25-Mar-2000
CAT 57	95734	25-Mar-2002
CAT 57 FRACTION	Y 36689	25-Mar-2003
CAT 58	95735	25-Mar-2002
CAT 59	95736	25-Mar-2002
CAT 60	95737	25-Mar-2002
CAT 61	95738	25-Mar-2002
CAT 62	95739	25-Mar-2002
CAT 62 FRACTION	Y 36690	25-Mar-2003
CAT 63	95740	25-Mar-2001
CAT 64	95741	25-Mar-2001
CAT 65	95742	25-Mar-2001
CAT 66	95743	25-Mar-2001
CAT 67	95744	25-Mar-2001
CAT 68	95745	25-Mar-2001
CAT 69	95746	25-Mar-2001
CAT 70	95747	25-Mar-2001
D 01	YB 37156	25-Mar-2002
D 02	YB 37157	25-Mar-2002
D 03	YB 37158	25-Mar-2002
D 04	YB 37159	25-Mar-2002
D 05	YB 37160	25-Mar-2002
D 06	YB 37161	25-Mar-2002
D 07	YB 37162	25-Mar-2002
D 08	YB 37163	25-Mar-2002

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
D 09	YB 37164	25-Mar-2002
D 10	YB 37165	25-Mar-2002
D 11	YB 37166	25-Mar-2002
D 12	YB 37167	25-Mar-2002
D 13	YB 37168	25-Mar-2002
D 14	YB 37169	25-Mar-2002
D 15	YB 37170	25-Mar-2002
D 16	YB 37171	25-Mar-2002
D 17	YB 37172	25-Mar-2002
D 18	YB 37173	25-Mar-2002
D 19	YB 37174	25-Mar-2002
D 20	YB 37175	25-Mar-2002
D 21	YB 37176	25-Mar-2002
D 22	YB 37177	25-Mar-2002
D 23	YB 37178	25-Mar-2002
D 24	YB 37179	25-Mar-2002
D 25	YB 37180	25-Mar-2002
D 26	YB 37181	25-Mar-2002
D 27	YB 37182	25-Mar-2002
D 28	YB 37183	25-Mar-2002
D 29	YB 37184	25-Mar-2002
D 30	YB 37185	25-Mar-2002
D 31	YB 37186	25-Mar-2002
D 32	YB 37187	25-Mar-2002
D 33	YB 37188	25-Mar-2002
D 34	YB 37189	25-Mar-2002
D 35	YB 37190	25-Mar-2002
D 36	YB 37191	25-Mar-2002
D 37	YB 37192	25-Mar-2002
D 38	YB 37193	25-Mar-2002
D 39	YB 37194	25-Mar-2002
D 40	YB 37195	25-Mar-2002
D 41	YB 37196	25-Mar-2002
D 42	YB 37197	25-Mar-2002
D 43	YB 37198	25-Mar-2002
D 44	YB 37199	25-Mar-2002
D 45	YB 37200	25-Mar-2002
D 46	YB 37201	25-Mar-2002
D 47	YB 37202	25-Mar-2002
D 48	YB 37203	25-Mar-2002
D 49	YB 37204	25-Mar-2002
D 50	YB 37205	25-Mar-2002
D 51	YB 37206	25-Mar-2002
D 52	YB 37207	25-Mar-2002
D 53	YB 37208	25-Mar-2002
D 54	YB 37209	25-Mar-2002
D 55	YB 37210	25-Mar-2002
D 56	YB 37211	25-Mar-2002
D 57	YB 37212	25-Mar-2002
D 58	YB 37213	25-Mar-2002
D 59	YB 37214	25-Mar-2002
D 60	YB 37215	25-Mar-2002
D 61	YB 37216	25-Mar-2002
D 62	YB 37217	25-Mar-2002
D 63	YB 37218	25-Mar-2002
D 64	YB 37219	25-Mar-2002
DIP 01	YB 36552	25-Mar-2001
DIP 02	YB 36553	25-Mar-2001
DIP 03	YB 36554	25-Mar-2001
DIP 04	YB 36555	25-Mar-2001
DIP 05	YB 36556	25-Mar-2001
DIP 05 FRACTION	YB 36981	25-Mar-2002
DIP 06	YB 36557	25-Mar-2001
DIP 06 FRACTION	YB 36982	25-Mar-2002
DIP 07	YB 36558	25-Mar-2001
DIP 07 FRACTION	YB 36983	25-Mar-2002
DIP 08	YB 36559	25-Mar-2001
DIP 08 FRACTION	YB 36984	25-Mar-2002
DIP 09	YB 36560	25-Mar-2001
DIP 10	YB 36561	25-Mar-2001
DIP 11	YB 36562	25-Mar-2001
DIP 12	YB 36563	25-Mar-2001
DIP 13	YB 36564	25-Mar-2001
DIP 14	YB 36565	25-Mar-2001
DIP 15	YB 36566	25-Mar-2001
DIP 16	YB 36567	25-Mar-2001
DIP 17	YB 36568	25-Mar-2001
DIP 18	YB 36569	25-Mar-2001
DIP 19	YB 36570	25-Mar-2001
DIP 20	YB 36571	25-Mar-2001
DIP 21	YB 36572	25-Mar-2001
DIP 22	YB 36573	25-Mar-2001
DIP 23	YB 36574	25-Mar-2001
DIP 24	YB 36575	25-Mar-2001
DIP 25	YB 36576	25-Mar-2001
DIP 26	YB 36577	25-Mar-2001
DIP 27	YB 36578	25-Mar-2001
DIP 28	YB 36579	25-Mar-2001
DIP 29	YB 36580	25-Mar-2001
DIP 30	YB 36581	25-Mar-2001
DIP 31	YB 36582	25-Mar-2001
DIP 32	YB 36583	25-Mar-2001
DIP 33	YB 36584	25-Mar-2001
DIP 34	YB 36585	25-Mar-2001
DIP 35	YB 36586	25-Mar-2001
DIP 36	YB 36587	25-Mar-2001
DIP 37	YB 37422	25-Mar-2002
DIP 38	YB 37423	25-Mar-2002

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
DIP 38	YB 37424	25-Mar-2002
DIP 40	YB 37425	25-Mar-2002
DIP 41	YB 37426	25-Mar-2002
DIP 42	YB 37427	25-Mar-2002
DIP 43	YB 37428	25-Mar-2002
DIP 44	YB 37429	25-Mar-2002
DIP 45	YB 37430	25-Mar-2002
DIP 46	YB 37431	25-Mar-2002
DIP 47	YB 37432	25-Mar-2002
DIP 48	YB 37433	25-Mar-2002
DIP 49	YB 37434	25-Mar-2002
DIP 50	YB 37435	25-Mar-2002
DIP 51	YB 37436	25-Mar-2002
DIP 52	YB 37437	25-Mar-2002
DIP 53	YB 37438	25-Mar-2002
DIP 54	YB 37439	25-Mar-2002
DIP 55	YB 37440	25-Mar-2002
DIP 56	YB 37441	25-Mar-2002
DIP 57	YB 37442	25-Mar-2002
DIP 58	YB 37443	25-Mar-2002
DIP 59	YB 37444	25-Mar-2002
DIP 60	YB 37445	25-Mar-2002
DIP 61	YB 37446	25-Mar-2002
DIP 62	YB 37447	25-Mar-2002
DIP 63	YB 37448	25-Mar-2002
DIP 64	YB 37449	25-Mar-2002
DIP 65	YB 37450	25-Mar-2002
DIP 66	YB 37451	25-Mar-2002
DIP 67	YB 37452	25-Mar-2002
DIP 68	YB 37453	25-Mar-2002
DIP 69	YB 37454	25-Mar-2002
DIP 70	YB 37455	25-Mar-2002
DIP 71	YB 37456	25-Mar-2002
DIP 72	YB 37457	25-Mar-2002
DIP 73	YB 37458	25-Mar-2002
DIP 74	YB 37459	25-Mar-2002
DIP 75	YB 37460	25-Mar-2002
DIP 76	YB 37461	25-Mar-2002
DIP 77	YB 37462	25-Mar-2002
DIP 78	YB 37463	25-Mar-2002
DIP 79	YB 37464	25-Mar-2002
DIP 80	YB 37465	25-Mar-2002
DIP 81	YB 37466	25-Mar-2002
E 01	YB 37220	25-Mar-2002
E 02	YB 37221	25-Mar-2002
E 03	YB 37222	25-Mar-2002
E 04	YB 37223	25-Mar-2002
E 05	YB 37224	25-Mar-2002
E 06	YB 37225	25-Mar-2002

Claim Name	Record Number	Expiry Date
E 07	YB 37226	25-Mar-2002
E 08	YB 37227	25-Mar-2002
E 09	YB 37228	25-Mar-2002
E 10	YB 37229	25-Mar-2002
E 11	YB 37230	25-Mar-2002
E 12	YB 37231	25-Mar-2002
E 13	YB 37232	25-Mar-2002
E 14	YB 37233	25-Mar-2002
E 15	YB 37234	25-Mar-2002
E 16	YB 37235	25-Mar-2002
E 17	YB 37236	25-Mar-2002
E 18	YB 37237	25-Mar-2002
E 19	YB 37238	25-Mar-2002
E 20	YB 37239	25-Mar-2002
E 21	YB 37240	25-Mar-2002
E 22	YB 37241	25-Mar-2002
E 23	YB 37242	25-Mar-2002
E 24	YB 37243	25-Mar-2002
E 25	YB 37244	25-Mar-2002
E 26	YB 37245	25-Mar-2002
E 27	YB 37246	25-Mar-2002
E 28	YB 37247	25-Mar-2002
E 29	YB 37248	25-Mar-2002
E 30	YB 37249	25-Mar-2002
E 31	YB 37250	25-Mar-2002
E 32	YB 37251	25-Mar-2002
F 01	YB 37252	25-Mar-2002
F 02	YB 37253	25-Mar-2002
F 03	YB 37254	25-Mar-2002
F 04	YB 37255	25-Mar-2002
F 05	YB 37256	25-Mar-2002
F 06	YB 37257	25-Mar-2002
F 07	YB 37258	25-Mar-2002
F 08	YB 37259	25-Mar-2002
F 09	YB 37260	25-Mar-2002
F 10	YB 37261	25-Mar-2002
F 11	YB 37262	25-Mar-2002
F 12	YB 37263	25-Mar-2002
F 13	YB 37264	25-Mar-2002
F 14	YB 37265	25-Mar-2002
F 15	YB 37266	25-Mar-2002
F 16	YB 37267	25-Mar-2002
F 17	YB 37268	25-Mar-2002
F 18	YB 37269	25-Mar-2002
F 19	YB 37270	25-Mar-2002
F 20	YB 37271	25-Mar-2002
F 21	YB 37272	25-Mar-2002
F 22	YB 37273	25-Mar-2002
F 23	YB 37274	25-Mar-2002

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
F 24	YB 37275	25-Mar-2002
F 25	YB 37276	25-Mar-2002
F 26	YB 37277	25-Mar-2002
F 27	YB 37278	25-Mar-2002
F 28	YB 37279	25-Mar-2002
F 29	YB 37280	25-Mar-2002
F 30	YB 37281	25-Mar-2002
F 31	YB 37282	25-Mar-2002
F 32	YB 37283	25-Mar-2002
F 33	YB 37284	25-Mar-2002
F 34	YB 37285	25-Mar-2002
F 35	YB 37286	25-Mar-2002
F 36	YB 37287	25-Mar-2002
F 37	YB 37288	25-Mar-2002
F 38	YB 37289	25-Mar-2002
F 39	YB 37290	25-Mar-2002
F 40	YB 37291	25-Mar-2002
F 41	YB 37292	25-Mar-2002
F 42	YB 37293	25-Mar-2002
F 43	YB 37294	25-Mar-2002
F 44	YB 37295	25-Mar-2002
F 45	YB 37296	25-Mar-2002
F 46	YB 37297	25-Mar-2002
F 47	YB 37298	25-Mar-2002
F 48	YB 37299	25-Mar-2002
F 49	YB 37678	25-Mar-2002
G 01	YB 37300	25-Mar-2002
G 02	YB 37301	25-Mar-2002
G 03	YB 37302	25-Mar-2002
G 04	YB 37303	25-Mar-2002
G 05	YB 37304	25-Mar-2002
G 06	YB 37305	25-Mar-2002
G 07	YB 37306	25-Mar-2002
G 08	YB 37307	25-Mar-2002
G 09	YB 37308	25-Mar-2002
G 10	YB 37309	25-Mar-2002
G 11	YB 37310	25-Mar-2002
G 12	YB 37311	25-Mar-2002
G 13	YB 37312	25-Mar-2002
G 14	YB 37313	25-Mar-2002
G 15	YB 37314	25-Mar-2002
G 16	YB 37315	25-Mar-2002
G 17	YB 37316	25-Mar-2002
G 18	YB 37317	25-Mar-2002
G 19	YB 37318	25-Mar-2002
G 20	YB 37319	25-Mar-2002
G 21	YB 37320	25-Mar-2002
G 22	YB 37321	25-Mar-2002
G 23	YB 37322	25-Mar-2002
G 24	YB 37323	25-Mar-2002
G 25	YB 37324	25-Mar-2002
G 26	YB 37325	25-Mar-2002
G 27	YB 37326	25-Mar-2002
G 28	YB 37327	25-Mar-2002
G 29	YB 37328	25-Mar-2002
G 30	YB 37329	25-Mar-2002
G 31	YB 37330	25-Mar-2002
G 32	YB 37331	25-Mar-2002
H 01	YB 37332	25-Mar-2002
H 02	YB 37333	25-Mar-2002
H 03	YB 37334	25-Mar-2002
H 04	YB 37335	25-Mar-2002
H 05	YB 37336	25-Mar-2002
H 06	YB 37337	25-Mar-2002
H 07	YB 37338	25-Mar-2002
H 08	YB 37339	25-Mar-2002
H 09	YB 37340	25-Mar-2002
H 10	YB 37341	25-Mar-2002
H 11	YB 37342	25-Mar-2002
H 12	YB 37343	25-Mar-2002
H 13	YB 37344	25-Mar-2002
H 14	YB 37345	25-Mar-2002
H 15	YB 37346	25-Mar-2002
H 16	YB 37347	25-Mar-2002
H 17	YB 37348	25-Mar-2002
H 18	YB 37349	25-Mar-2002
H 19	YB 37350	25-Mar-2002
H 20	YB 37351	25-Mar-2002
H 21	YB 37352	25-Mar-2002
H 22	YB 37353	25-Mar-2002
H 23	YB 37354	25-Mar-2002
H 24	YB 37355	25-Mar-2002
H 25	YB 37356	25-Mar-2002
H 26	YB 37357	25-Mar-2002
H 27	YB 37358	25-Mar-2002
H 28	YB 37359	25-Mar-2002
H 29	YB 37360	25-Mar-2002
H 30	YB 37361	25-Mar-2002
H 31	YB 37362	25-Mar-2002
H 32	YB 37363	25-Mar-2002
H 33	YB 37364	25-Mar-2002
H 34	YB 37365	25-Mar-2002
H 35	YB 37366	25-Mar-2002
H 36	YB 37367	25-Mar-2002
H 37	YB 37368	25-Mar-2002
H 38	YB 37369	25-Mar-2002
H 39	YB 37370	25-Mar-2002
H 40	YB 37371	25-Mar-2002

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
H 41	YB 37372	25-Mar-2002
H 42	YB 37373	25-Mar-2002
H 43	YB 37374	25-Mar-2002
H 44	YB 37375	25-Mar-2002
H 45	YB 37376	25-Mar-2002
H 46	YB 37377	25-Mar-2002
H 47	YB 37378	25-Mar-2002
H 48	YB 37379	25-Mar-2002
H 49	YB 37380	25-Mar-2002
H 50	YB 37381	25-Mar-2002
H 51	YB 37382	25-Mar-2002
H 52	YB 37383	25-Mar-2002
H 53	YB 37384	25-Mar-2002
H 54	YB 37385	25-Mar-2002
H 55	YB 37386	25-Mar-2002
H 56	YB 37387	25-Mar-2002
H 57	YB 37388	25-Mar-2002
H 58	YB 37389	25-Mar-2002
H 59	YB 37390	25-Mar-2002
H 60	YB 37391	25-Mar-2002
H 61	YB 37392	25-Mar-2002
H 62	YB 37393	25-Mar-2002
H 63	YB 37394	25-Mar-2002
H 64	YB 37395	25-Mar-2002
H 65	YB 37396	25-Mar-2002
H 66	YB 37397	25-Mar-2002
H 67	YB 37398	25-Mar-2002
H 68	YB 37399	25-Mar-2002
H 69	YB 37400	25-Mar-2002
H 70	YB 37401	25-Mar-2002
H 71	YB 37402	25-Mar-2002
H 72	YB 37403	25-Mar-2002
H 73	YB 37404	25-Mar-2002
H 74	YB 37405	25-Mar-2002
H 75	YB 37406	25-Mar-2002
H 76	YB 37407	25-Mar-2002
H 77	YB 37408	25-Mar-2002
H 78	YB 37409	25-Mar-2002
H 79	YB 37410	25-Mar-2002
H 80	YB 37411	25-Mar-2002
H 81	YB 37412	25-Mar-2002
H 82	YB 37413	25-Mar-2002
H 83	YB 37414	25-Mar-2002
H 84	YB 37415	25-Mar-2002
H 85	YB 37416	25-Mar-2002
H 86	YB 37417	25-Mar-2002
H 87	YB 37418	25-Mar-2002
H 88	YB 37419	25-Mar-2002
H 89	YB 37420	25-Mar-2002

Claim Name	Record Number	Expiry Date
H 90	YB 37421	25-Mar-2002
HELICOPTER 1	4252	25-Mar-2002
I 01	YB 37640	25-Mar-2002
I 02	YB 37641	25-Mar-2002
I 03	YB 37642	25-Mar-2002
I 04	YB 37643	25-Mar-2002
I 05	YB 37644	25-Mar-2002
I 06	YB 37645	25-Mar-2002
I 07	YB 37646	25-Mar-2002
I 08	YB 37647	25-Mar-2002
I 09	YB 37648	25-Mar-2002
I 10	YB 37649	25-Mar-2002
I 11	YB 37650	25-Mar-2002
I 12	YB 37651	25-Mar-2002
I 13	YB 37652	25-Mar-2002
I 14	YB 37653	25-Mar-2002
I 15	YB 37654	25-Mar-2002
I 16	YB 37655	25-Mar-2002
I 17	YB 37656	25-Mar-2002
I 18	YB 37657	25-Mar-2002
I 19	YB 37658	25-Mar-2002
I 20	YB 37659	25-Mar-2002
I 21	YB 37660	25-Mar-2002
I 22	YB 37661	25-Mar-2002
I 23	YB 37662	25-Mar-2002
I 24	YB 37663	25-Mar-2002
I 25	YB 37664	25-Mar-2002
I 26	YB 37665	25-Mar-2002
I 27	YB 37666	25-Mar-2002
I 28	YB 37667	25-Mar-2002
I 29	YB 37668	25-Mar-2002
I 30	YB 37669	25-Mar-2002
I 31	YB 37670	25-Mar-2002
I 32	YB 37671	25-Mar-2002
I 33	YB 37672	25-Mar-2002
I 34	YB 37673	25-Mar-2002
I 35	YB 37674	25-Mar-2002
I 36	YB 37675	25-Mar-2002
I 37	YB 37676	25-Mar-2002
I 38	YB 37677	25-Mar-2002
J 01	YB 46605	25-Mar-99
J 02	YB 46606	25-Mar-99
J 03	YB 46607	25-Mar-99
J 04	YB 46608	25-Mar-99
J 05	YB 46609	25-Mar-99
J 06	YB 46610	25-Mar-99
J 07	YB 46611	25-Mar-99
J 08	YB 46612	25-Mar-99
J 09	YB 46613	25-Mar-99

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
J 10	YB 46614	25-Mar-99
J 11	YB 46615	25-Mar-99
J 12	YB 46616	25-Mar-99
J 13	YB 46617	25-Mar-99
J 14	YB 46618	25-Mar-99
J 15	YB 46619	25-Mar-99
J 16	YB 46620	25-Mar-99
J 17	YB 46621	25-Mar-99
J 18	YB 46622	25-Mar-99
J 19	YB 46623	25-Mar-99
J 20	YB 46624	25-Mar-99
J 21	YB 46625	25-Mar-99
J 22	YB 46626	25-Mar-99
J 23	YB 46627	25-Mar-99
J 24	YB 46628	25-Mar-99
J 25	YB 46629	25-Mar-99
J 26	YB 46630	25-Mar-99
J 27	YB 46631	25-Mar-99
J 28	YB 46632	25-Mar-99
J 29	YB 46633	25-Mar-99
J 30	YB 46634	25-Mar-99
J 31	YB 46635	25-Mar-99
J 32	YB 46636	25-Mar-99
J 33	YB 46637	25-Mar-99
J 34	YB 46638	25-Mar-99
J 35	YB 46639	25-Mar-99
J 36	YB 46640	25-Mar-99
J 37	YB 46641	25-Mar-99
J 38	YB 46642	25-Mar-99
J 39	YB 46643	25-Mar-99
J 40	YB 46644	25-Mar-99
JOE 100	Y 10704	25-Mar-2003
JOE 101	Y 10705	25-Mar-2003
JOE 102	Y 10706	25-Mar-2003
JOE 103	Y 10707	25-Mar-2003
JOE 104	Y 10708	25-Mar-2003
JOE 21	Y 619	25-Mar-2001
JOE 22	Y 620	25-Mar-2001
JOE 23	Y 621	25-Mar-2001
JOE 24	Y 622	25-Mar-2001
JOE 89	Y 10693	25-Mar-2003
JOE 90	Y 10694	25-Mar-2003
JOE 91	Y 10695	25-Mar-2003
JOE 91 FRACTION	Y 51850	25-Mar-2003
JOE 92	Y 10696	25-Mar-2003
JOE 92 FRACTION	Y 51851	25-Mar-2003
JOE 93	Y 10697	25-Mar-2003
JOE 93 FRACTION	Y 51852	25-Mar-2003
JOE 94	Y 10698	25-Mar-2003
JOE 94 FRACTION	Y 51853	25-Mar-2003
JOE 95	Y 10699	25-Mar-2003
JOE 95 FRACTION	Y 51854	25-Mar-2003
JOE 96	Y 10700	25-Mar-2003
JOE 96 FRACTION	Y 51855	25-Mar-2003
JOE 97	Y 10701	25-Mar-2003
JOE 98	Y 10702	25-Mar-2003
JOE 99	Y 10703	25-Mar-2003
K 01	YB 46645	25-Mar-99
K 02	YB 46646	25-Mar-99
K 03	YB 46647	25-Mar-99
K 04	YB 46648	25-Mar-99
K 05	YB 46649	25-Mar-99
K 06	YB 46650	25-Mar-99
K 07	YB 46651	25-Mar-99
K 08	YB 46652	25-Mar-99
K 09	YB 46653	25-Mar-99
K 10	YB 46654	25-Mar-99
K 11	YB 46655	25-Mar-99
K 12	YB 46656	25-Mar-99
K 13	YB 46657	25-Mar-99
K 14	YB 46658	25-Mar-99
K 15	YB 46659	25-Mar-99
K 16	YB 46660	25-Mar-99
K 17	YB 46661	25-Mar-99
K 18	YB 46662	25-Mar-99
K 19	YB 46663	25-Mar-99
K 20	YB 46664	25-Mar-99
LOST 1 FRACTION	Y 35585	25-Mar-2003
LOST 2 FRACTION	Y 35586	25-Mar-2003
LOST 3 FRACTION	Y 35587	25-Mar-2003
MOUSE 01	Y 35192	25-Mar-2003
MOUSE 02	Y 35193	25-Mar-2003
MOUSE 03	Y 35194	25-Mar-2003
MOUSE 04	Y 35195	25-Mar-2003
MOUSE 05	Y 35196	25-Mar-2003
MOUSE 06 FRACTION	Y 35197	25-Mar-2003
MOUSE 07	Y 35198	25-Mar-2003
MOUSE 08	Y 35199	25-Mar-2003
MOUSE 09	Y 35200	25-Mar-2003
MOUSE 10	Y 35201	25-Mar-2003
MOUSE 11	Y 35202	25-Mar-2003
MOUSE 12	Y 35203	25-Mar-2003
MOUSE 13	Y 35204	25-Mar-2003
MOUSE 14	Y 35205	25-Mar-2003
MOUSE 15	Y 35206	25-Mar-2003
MOUSE 16	Y 35207	25-Mar-2003
MOUSE 89	Y 35483	25-Mar-2003
MOUSE 90	Y 35484	25-Mar-2003

TABLE 1
CASINO PROJECT- MINERAL CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Expiry Date
MOUSE 97	Y 35491	25-Mar-2003
MOUSE 98	Y 35492	25-Mar-2003
MOUSE 123	Y 35517	25-Mar-2003
MOUSE 124	Y 35518	25-Mar-2003
MOUSE 125	Y 35519	25-Mar-2003
MOUSE 126	Y 35520	25-Mar-2003

Claim Name	Record Number	Expiry Date
MOUSE 127	Y 35521	25-Mar-2003
MOUSE 128	Y 35522	25-Mar-2003
MOUSE 161 FRACTION	Y 35582	25-Mar-2003
MOUSE 162 FRACTION	Y 35583	25-Mar-2003
MOUSE 163 FRACTION	Y 35584	25-Mar-2003

Total # of Mineral Claims: 795

In the summer of 1994, Pacific Sentinel Gold Corp. staked eighty-seven placer claims over nine of the existing placer leases. In accordance with the Yukon Placer Mining Act, this staking resulted in the "conversion of lease to claim" whereby the nine underlying leases were forfeited once the overlying placer claims were staked and recorded.

All placer claims remain in good standing until August of 1999 with acceptance of this assessment report. The placer leases remain in good standing until August of 1995. A complete listing of placer leases and claims follow in Tables 2 and 3, respectively.

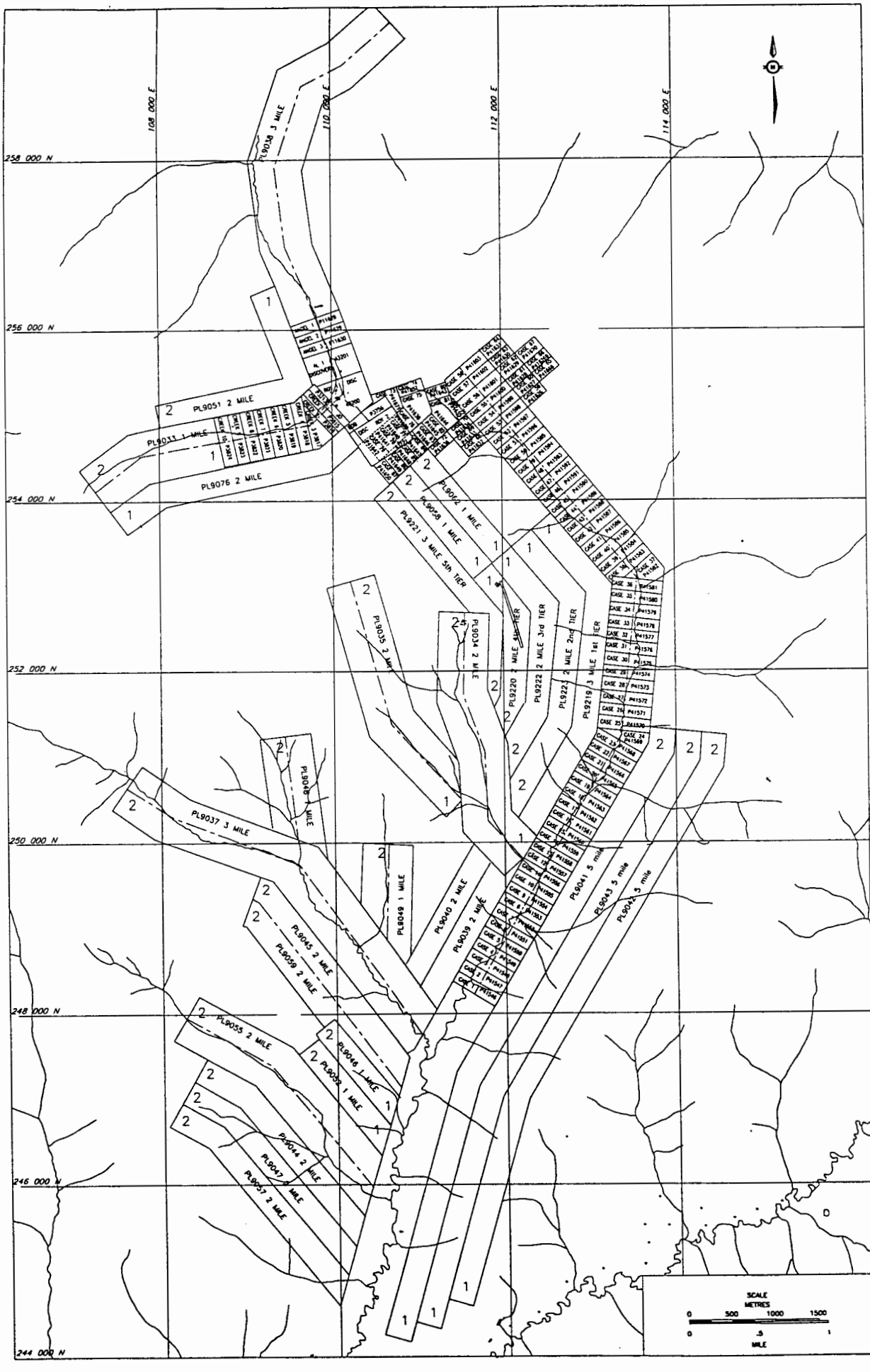


FIGURE 5 OUTLINE OF CASINO PLACER CLAIMS AND LEASES

TABLE 2
CASINO PROJECT - PLACER LEASES

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Lease Name	Expiry Date	Comments
9008	05-Aug-95	Conversion of Lease to Claim with staking of CASE 7 to CASE 58
9036	11-Sep-95	Conversion of Lease to Claim with staking of CASE 1 to CASE 6
9050	11-Sep-95	Conversion of Lease to Claim with staking of CASE 80 to CASE 87
9053	11-Sep-95	Conversion of Lease to Claim with staking of CASE 74 to CASE 79
9056	11-Sep-95	Conversion of Lease to Claim with staking of CASE 59 to CASE 64
9058	11-Sep-95	Overlies Patton Hill
9060	11-Sep-95	Conversion of Lease to Claim with staking of CASE 72
9061	11-Sep-95	Conversion of Lease to Claim with staking of CASE 68 to CASE 71
9062	11-Sep-95	Overlies Patton Hill
9063	11-Sep-95	Conversion of Lease to Claim with staking of CASE 65 to CASE 67
9074	23-Sep-95	Conversion of Lease to Claim with staking of CASE 73

Total # of Placer Leases: 11

TABLE 3
CASINO PROJECT - PLACER CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Record Date	Expiry Date	New Expiry Date*
Angel 1	P 11628		12-Dec-96	12-Dec-99
Angel 2	P 11629		12-Dec-96	12-Dec-99
Angel 3	P 11630		12-Dec-96	12-Dec-99
Bob	P 03756		12-Dec-96	12-Dec-99
Case 1	P 41546	05-Aug-94	05-Aug-95	05-Aug-99
Case 2	P 41547	05-Aug-94	05-Aug-95	05-Aug-99
Case 3	P 41548	05-Aug-94	05-Aug-95	05-Aug-99
Case 4	P 41549	05-Aug-94	05-Aug-95	05-Aug-99
Case 5	P 41550	05-Aug-94	05-Aug-95	05-Aug-99
Case 6	P 41551	05-Aug-94	05-Aug-95	05-Aug-99
Case 7	P 41552	05-Aug-94	05-Aug-95	05-Aug-99
Case 8	P 41553	05-Aug-94	05-Aug-95	05-Aug-99
Case 9	P 41554	05-Aug-94	05-Aug-95	05-Aug-99
Case 10	P 41555	05-Aug-94	05-Aug-95	05-Aug-99
Case 11	P 41556	05-Aug-94	05-Aug-95	05-Aug-99
Case 12	P 41557	05-Aug-94	05-Aug-95	05-Aug-99
Case 13	P 41558	05-Aug-94	05-Aug-95	05-Aug-99
Case 14	P 41559	05-Aug-94	05-Aug-95	05-Aug-99
Case 15	P 41560	05-Aug-94	05-Aug-95	05-Aug-99
Case 16	P 41561	05-Aug-94	05-Aug-95	05-Aug-99
Case 17	P 41562	05-Aug-94	05-Aug-95	05-Aug-99
Case 18	P 41563	05-Aug-94	05-Aug-95	05-Aug-99
Case 19	P 41564	05-Aug-94	05-Aug-95	05-Aug-99
Case 20	P 41565	05-Aug-94	05-Aug-95	05-Aug-99
Case 21	P 41566	05-Aug-94	05-Aug-95	05-Aug-99
Case 22	P 41567	05-Aug-94	05-Aug-95	05-Aug-99
Case 23	P 41568	05-Aug-94	05-Aug-95	05-Aug-99
Case 24	P 41569	05-Aug-94	05-Aug-95	05-Aug-99
Case 25	P 41570	05-Aug-94	05-Aug-95	05-Aug-99
Case 26	P 41571	05-Aug-94	05-Aug-95	05-Aug-99
Case 27	P 41572	05-Aug-94	05-Aug-95	05-Aug-99
Case 28	P 41573	05-Aug-94	05-Aug-95	05-Aug-99
Case 29	P 41574	05-Aug-94	05-Aug-95	05-Aug-99
Case 30	P 41575	05-Aug-94	05-Aug-95	05-Aug-99
Case 31	P 41576	05-Aug-94	05-Aug-95	05-Aug-99
Case 32	P 41577	05-Aug-94	05-Aug-95	05-Aug-99
Case 33	P 41578	05-Aug-94	05-Aug-95	05-Aug-99
Case 34	P 41579	05-Aug-94	05-Aug-95	05-Aug-99
Case 35	P 41580	05-Aug-94	05-Aug-95	05-Aug-99
Case 36	P 41581	05-Aug-94	05-Aug-95	05-Aug-99
Case 37	P 41582	05-Aug-94	05-Aug-95	05-Aug-99
Case 38	P 41583	05-Aug-94	05-Aug-95	05-Aug-99
Case 39	P 41584	05-Aug-94	05-Aug-95	05-Aug-99
Case 40	P 41585	05-Aug-94	05-Aug-95	05-Aug-99
Case 41	P 41586	05-Aug-94	05-Aug-95	05-Aug-99
Case 42	P 41587	05-Aug-94	05-Aug-95	05-Aug-99
Case 43	P 41588	05-Aug-94	05-Aug-95	05-Aug-99
Case 44	P 41589	05-Aug-94	05-Aug-95	05-Aug-99
Case 45	P 41590	05-Aug-94	05-Aug-95	05-Aug-99

TABLE 3
CASINO PROJECT - PLACER CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Record Date	Expiry Date	New Expiry Date*
Case 46	P 41591	05-Aug-94	05-Aug-95	05-Aug-99
Case 47	P 41592	05-Aug-94	05-Aug-95	05-Aug-99
Case 48	P 41593	05-Aug-94	05-Aug-95	05-Aug-99
Case 49	P 41594	05-Aug-94	05-Aug-95	05-Aug-99
Case 50	P 41595	05-Aug-94	05-Aug-95	05-Aug-99
Case 51	P 41596	05-Aug-94	05-Aug-95	05-Aug-99
Case 52	P 41597	05-Aug-94	05-Aug-95	05-Aug-99
Case 53	P 41598	05-Aug-94	05-Aug-95	05-Aug-99
Case 54	P 41599	05-Aug-94	05-Aug-95	05-Aug-99
Case 55	P 41600	05-Aug-94	05-Aug-95	05-Aug-99
Case 56	P 41601	05-Aug-94	05-Aug-95	05-Aug-99
Case 57	P 41602	05-Aug-94	05-Aug-95	05-Aug-99
Case 58	P 41603	05-Aug-94	05-Aug-95	05-Aug-99
Case 59	P 41626	16-Aug-94	16-Aug-95	16-Aug-99
Case 60	P 41627	16-Aug-94	16-Aug-95	16-Aug-99
Case 61	P 41628	16-Aug-94	16-Aug-95	16-Aug-99
Case 62	P 41629	16-Aug-94	16-Aug-95	16-Aug-99
Case 63	P 41630	16-Aug-94	16-Aug-95	16-Aug-99
Case 64	P 41631	16-Aug-94	16-Aug-95	16-Aug-99
Case 65	P 41668	19-Aug-94	19-Aug-95	19-Aug-99
Case 66	P 41669	19-Aug-94	19-Aug-95	19-Aug-99
Case 67	P 41670	19-Aug-94	19-Aug-95	19-Aug-99
Case 68	P 41632	16-Aug-94	16-Aug-95	16-Aug-99
Case 69	P 41633	16-Aug-94	16-Aug-95	16-Aug-99
Case 70	P 41634	16-Aug-94	16-Aug-95	16-Aug-99
Case 71	P 41635	16-Aug-94	16-Aug-95	16-Aug-99
Case 72	P 41636	16-Aug-94	16-Aug-95	16-Aug-99
Case 73	P 41671	19-Aug-94	16-Aug-95	16-Aug-99
Case 74	P 41637	16-Aug-94	16-Aug-95	16-Aug-99
Case 75	P 41638	16-Aug-94	16-Aug-95	16-Aug-99
Case 76	P 41639	16-Aug-94	16-Aug-95	16-Aug-99
Case 77	P 41640	16-Aug-94	16-Aug-95	16-Aug-99
Case 78	P 41641	16-Aug-94	16-Aug-95	16-Aug-99
Case 79	P 41642	16-Aug-94	16-Aug-95	16-Aug-99
Case 80	P 41643	16-Aug-94	16-Aug-95	16-Aug-99
Case 81	P 41644	16-Aug-94	16-Aug-95	16-Aug-99
Case 82	P 41645	16-Aug-94	16-Aug-95	16-Aug-99
Case 83	P 41646	16-Aug-94	16-Aug-95	16-Aug-99
Case 84	P 41647	16-Aug-94	16-Aug-95	16-Aug-99
Case 85	P 41648	16-Aug-94	16-Aug-95	16-Aug-99
Case 86	P 41649	16-Aug-94	16-Aug-95	16-Aug-99
Case 87	P 41650	16-Aug-94	16-Aug-95	16-Aug-99
Creek 1	P 03815		12-Dec-96	12-Dec-99
Creek 2	P 03816		12-Dec-96	12-Dec-99
Creek 3	P 03817		12-Dec-96	12-Dec-99
Creek 4	P 03818		12-Dec-96	12-Dec-99
Creek 5	P 03819		12-Dec-96	12-Dec-99
Creek 6	P 03820		12-Dec-96	12-Dec-99
Creek 7	P 03821		12-Dec-96	12-Dec-99

TABLE 3
CASINO PROJECT - PLACER CLAIMS

NTS Sheets 115J10 & 115J15 — Whitehorse Mining District

Claim Name	Record Number	Record Date	Expiry Date	New Expiry Date*
Creek 8	P 03822		12-Dec-96	12-Dec-99
Creek 9	P 03823		12-Dec-96	12-Dec-99
Creek 10	P 03824		12-Dec-96	12-Dec-99
Disc Al 1	43201		12-Dec-96	12-Dec-99
Jo	P 32133		12-Dec-96	12-Dec-99
Roy 1	43200		12-Dec-96	12-Dec-99
Roy 2	43221		12-Dec-96	12-Dec-99

Total # of Placer Claims: 105

* Upon acceptance of assessment work

6.0 EXPLORATION HISTORY

Early exploration in the Casino area focused on placer gold in Canadian Creek immediately north of Patton Hill (Figure 2) and on silver-lead-zinc veins on the southern periphery of the porphyry deposit. In April 1911, placer claims were staked in Canadian Creek by J. Britton and C. Brown; the gravels have been worked sporadically since. In 1917, D.D. Cairnes of the Geological Survey of Canada, recognized huebnerite ($MnWo_4$) in the heavy-mineral concentrates of the placer workings (Cairnes, 1917). He suggested that the gold and tungsten mineralization was derived from an intrusive complex on Patton Hill (which now is recognized as the core of the Casino Porphyry Deposit). The total placer gold production is unknown; the most recent work (1980-85) yielded about 50 kg (1615 troy ounces) of gold. During the Second World War, a small amount of tungsten was recovered.

In 1917, the first mineral claims at Casino were staked by N. Hansen. Other mineral claims were staked over parts of the property between 1920 and 1950, but no significant work was performed and no lode mineralization was reported.

In the early 1940's, silver-lead-zinc veins were discovered by J. Meloy and A. Brown approximately 3 km south of the Canadian Creek placer workings. Between 1948 and 1963 minor trenching was done. In 1963, L. Proctor purchased the claims and formed Casino Silver Mines Limited to develop the silver-rich veins. Between 1965 and 1980, the silver-bearing veins were explored and developed intermittently by underground workings. In total, 372.5 tonnes of hand-

cobbed argentiferous galena, assaying 3689 g/t Ag, 17.1 g/t Au, 48.3% Pb, 5% Zn, 1.5% Cu and 0.02% Bi, were shipped to the smelter at Trail, British Columbia.

B. Hestor noted that the area had porphyry deposit potential in 1963, but his observations did not become generally known (Godwin, 1976). In 1967, the porphyry potential was recognized again and the Brynelsen Group acquired Casino Silver Mines Ltd.. Exploration from 1968 to 1973 was jointly directed by Brameda, Quintana and Teck Corporation towards a porphyry target (Archer and Main, 1971). During this period, 5,328 metres of reverse circulation drilling was completed in 35 holes and 12,574 metres of diamond drilling was completed in 56 holes.

In 1991, Archer, Cathro & Associates (1981) Ltd. optioned the property and assigned the option to Big Creek Resources Ltd. A diamond drill program in 1992 which consisted of 21 HQ (63.5 mm diameter) holes for the first time systematically assessed the gold potential in the core of the Casino Deposit. The larger sized core gave better recovery and more reliable assays than earlier drilling.

In 1992, Pacific Sentinel Gold Corp. acquired 100% interest in the property. In 1993 and 1994 Pacific Sentinel Gold Corp. completed a major exploration program which included surface mapping, trenching, and 64,605 metres of HQ (63.5 mm diameter) and NQ (47.6 mm diameter) drilling in 177 holes.

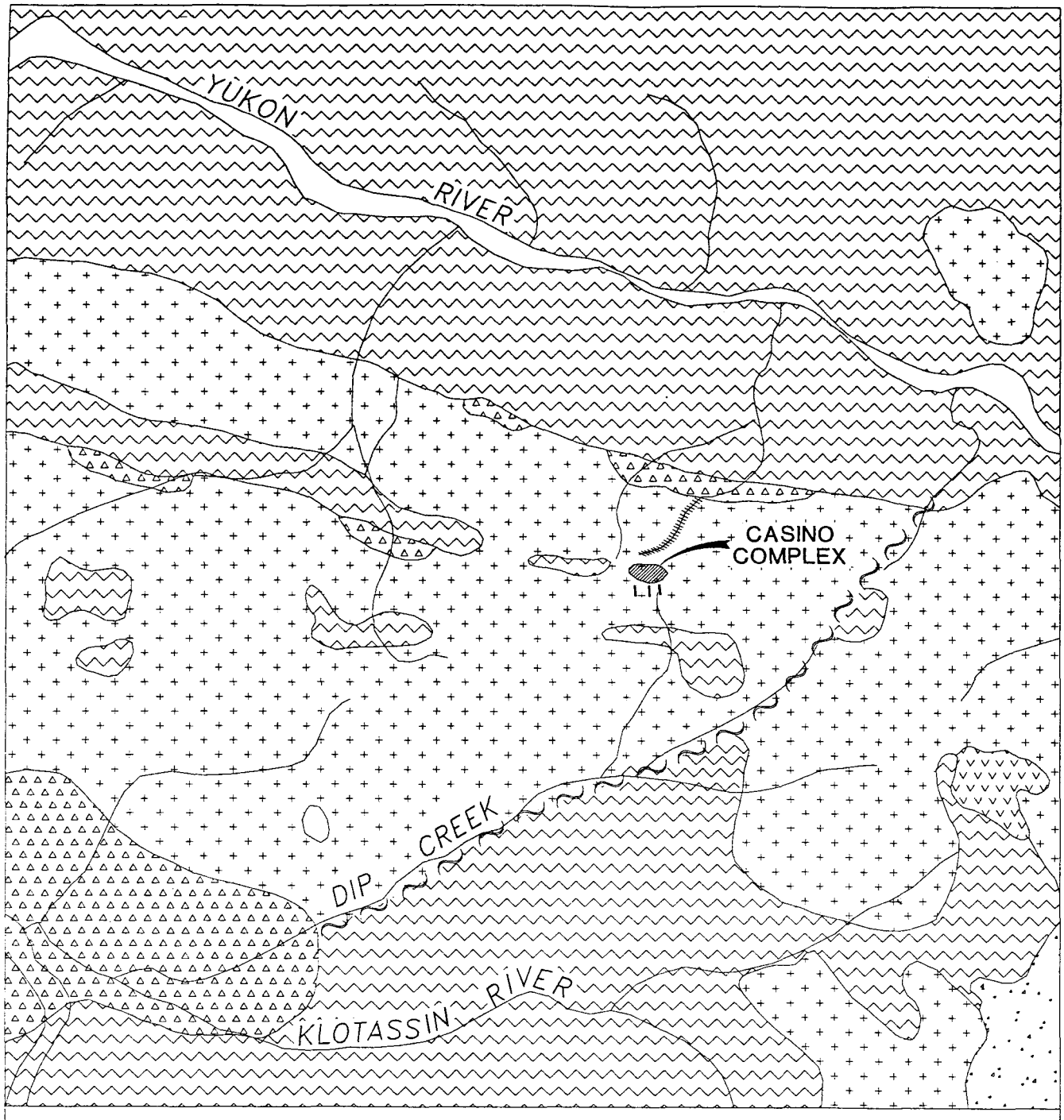
7.0 REGIONAL GEOLOGY

The Casino Project occurs in an overlapping zone of Yukon Cataclastic Terrane to the north and the Yukon Crystalline Terrane to the south (Templeman-Kluit, 1976) as illustrated by Figure 6. An elongate band of ultramafic rocks one kilometre north of the Casino Deposit may occur along a major tectonic suture which separates the two terranes. The southern terrane contains the Dawson Range Batholith with scattered roof-pendants and blocks of the Yukon Metamorphic Complex with scattered intrusions of the Coffee Creek Suite which are petrographically distinct from the Dawson Range Batholith (Payne et al, 1987).

Table 4 shows the major geological units with isotopic ages (where available). All isotopic dates are based on U-Pb ratios in zircons analyzed by J.R. Mortensen (Bower et al, 1994).

The Yukon Metamorphic Complex is dominated by quartz-biotite-plagioclase gneiss, metamorphosed granodiorite to quartz diorite and less abundant quartzite and meta-diorite/amphibolite. All are complexly deformed; original deformation probably occurred during the Late Triassic to Early Jurassic but may have been as early as Late Paleozoic. Weaker deformation probably occurred during the intrusion of the west-northwest trending Dawson Range Batholith.

The Dawson Range Batholith is dominated by medium to coarse grained quartz diorite to granodiorite with lesser quantities of fine to locally medium grained diorite. The Batholith contains



LEGEND

- CARMACKS GROUP ROCKS
- MT. COCKFIELD VOLCANIC ROCKS
- CASINO INTRUSIVE COMPLEX
- COFFEE CREEK GRANODIORITE
- DAWSON RANGE BATHOLITH
- ULTRAMAFIC ROCKS
- YUKON GROUP METAMORPHIC ROCKS
- GOLD PLACER
- Ag–Pb–Zn VEINS

SCALE

0 5 10 15

KILOMETRES

N

(MODIFIED AFTER PAYNE et.al, 1987)

FIGURE 6 REGIONAL GEOLOGY CASINO

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

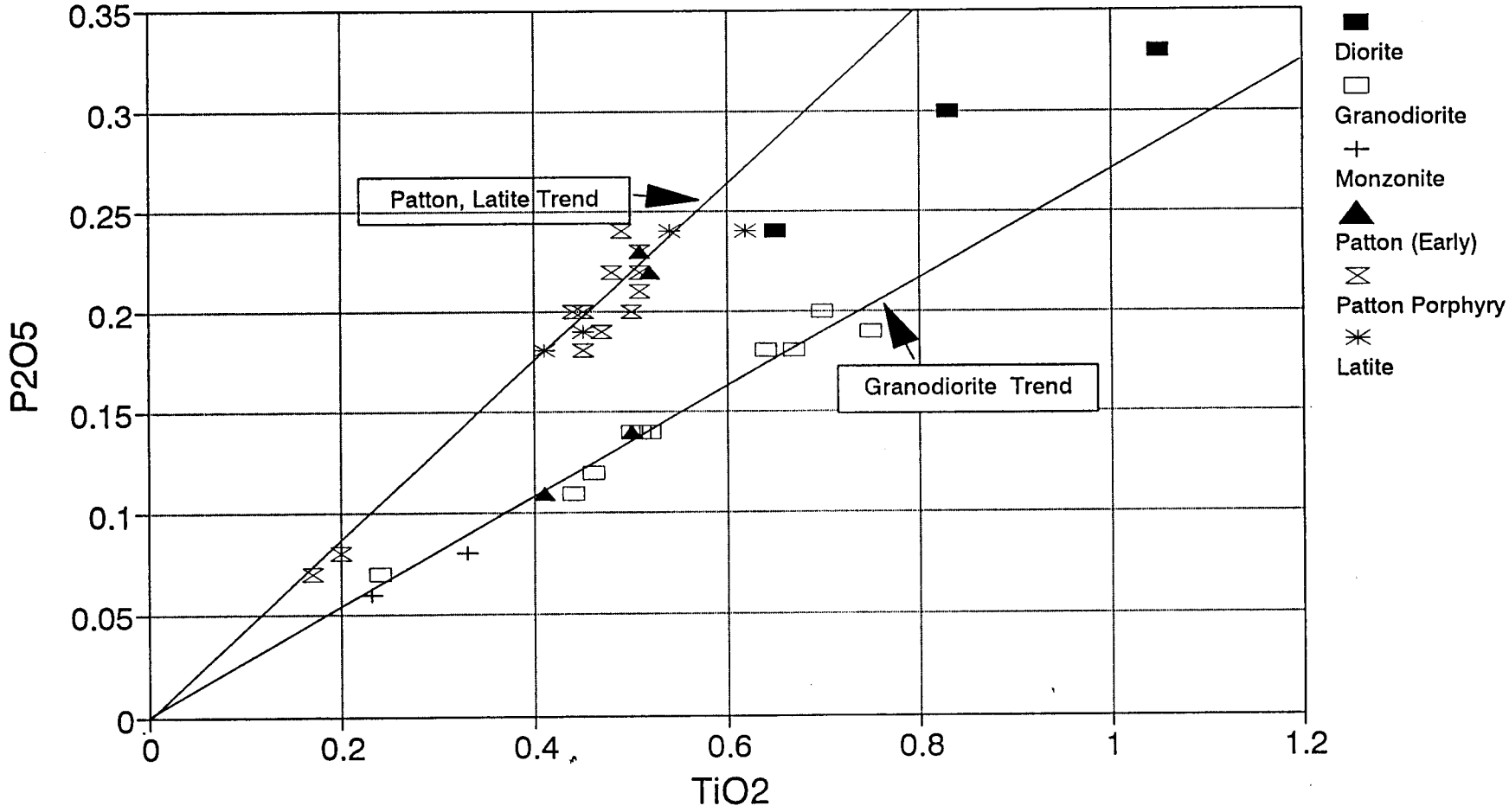
scattered to locally abundant, centimetre sized, meta-diorite xenoliths of the Yukon Metamorphic Complex.

The Casino Intrusions intrude the Dawson Range Batholith and are concentrated in a west-northwest trending belt along the Big Creek Lineament and its northwestern extension. The Intrusions are stocks, up to 5 km across, which are dominated by biotite-bearing to leucocratic granodiorite to quartz monzonite; some are hypabyssal porphyritic dacite (Patton Porphyry). The genetically related intrusions host hydrothermal alteration as well as sulphide and precious-metal mineralization.

Table 5
Whole Rock Chemical Composition of Casino Complex and Dawson Range Intrusive Units

Unit	Rock Name	Al203	CaO	Cr203	Fe203	K2O	MgO	MnO	Na2O	P205	SiO2	Ti02	LOI	Total
2	Diorite	17.83	5.62	0.00	7.60	2.35	4.44	0.05	2.68	0.24	54.76	0.89	3.72	100.19
2	Granodiorite	15.28	3.41	0.02	3.97	3.48	2.02	0.03	2.88	0.14	65.73	0.54	2.59	100.09
3	Quartz Monzonite	13.63	1.36	0.02	1.53	5.93	0.61	0.01	1.24	0.08	72.69	0.18	2.52	99.77
3,5	Early Patton	15.72	1.39	0.01	5.81	4.81	2.30	0.03	2.29	0.17	62.67	0.53	4.23	99.96
5	Later Patton	15.98	2.88	0.01	4.76	3.38	2.38	0.03	3.29	0.21	63.96	0.50	2.88	100.24
5	K-Spar Phyric Patton	14.60	1.22	0.00	2.08	7.86	1.32	0.01	1.68	0.11	69.43	0.33	2.20	100.84
7	Latite	16.32	2.68	0.01	3.87	4.10	1.57	0.09	2.71	0.19	64.64	0.45	3.76	100.38

CASINO PROJECT
Conserved Element Test (P vs Ti)



GRAPH 1

8.0 PROPERTY GEOLOGY

The Casino Deposit is centred in a complex of quartz monzonites, intrusion breccias, shallow porphyritic intrusions, and a central breccia to microbreccia body. In this document microbreccia refers to this central breccia and other smaller satellite bodies that are characterized by a microbrecciated groundmass with broken quartz crystals. The Casino intrusions are Upper Cretaceous in age (Bower et al, 1994). The complex is hosted by the Middle Cretaceous Dawson Range Batholith (Figures 7 and 8).

A few major faults cut the region. Southeast of Casino, the Dip Creek Fault is a northeast trending strike-slip fault. The sense and magnitude of offset is unknown. the largest fault on the property is the Casino Fault, a broadly curved, steeply dipping, strike-slip fault trending 160 to 140 degrees which offsets the eastern part of the Casino Deposit right-laterally about 200 m.

On the east side of the Casino Fault numerous small faults are encountered in drill holes. Most of these have subhorizontal slickensides and chlorite-hematite alteration. Healed slickensides, local brecciation, and the development of open spaces at the intersection of fractures, are common.

A north-south fault is inferred in a prominent valley near the western side of the deposit. Another major fault along the eastern side of the deposit, of uncertain displacement, separates hydrothermally altered rocks of the Casino Complex from fresh rocks of the Dawson Range Batholith further to the east.

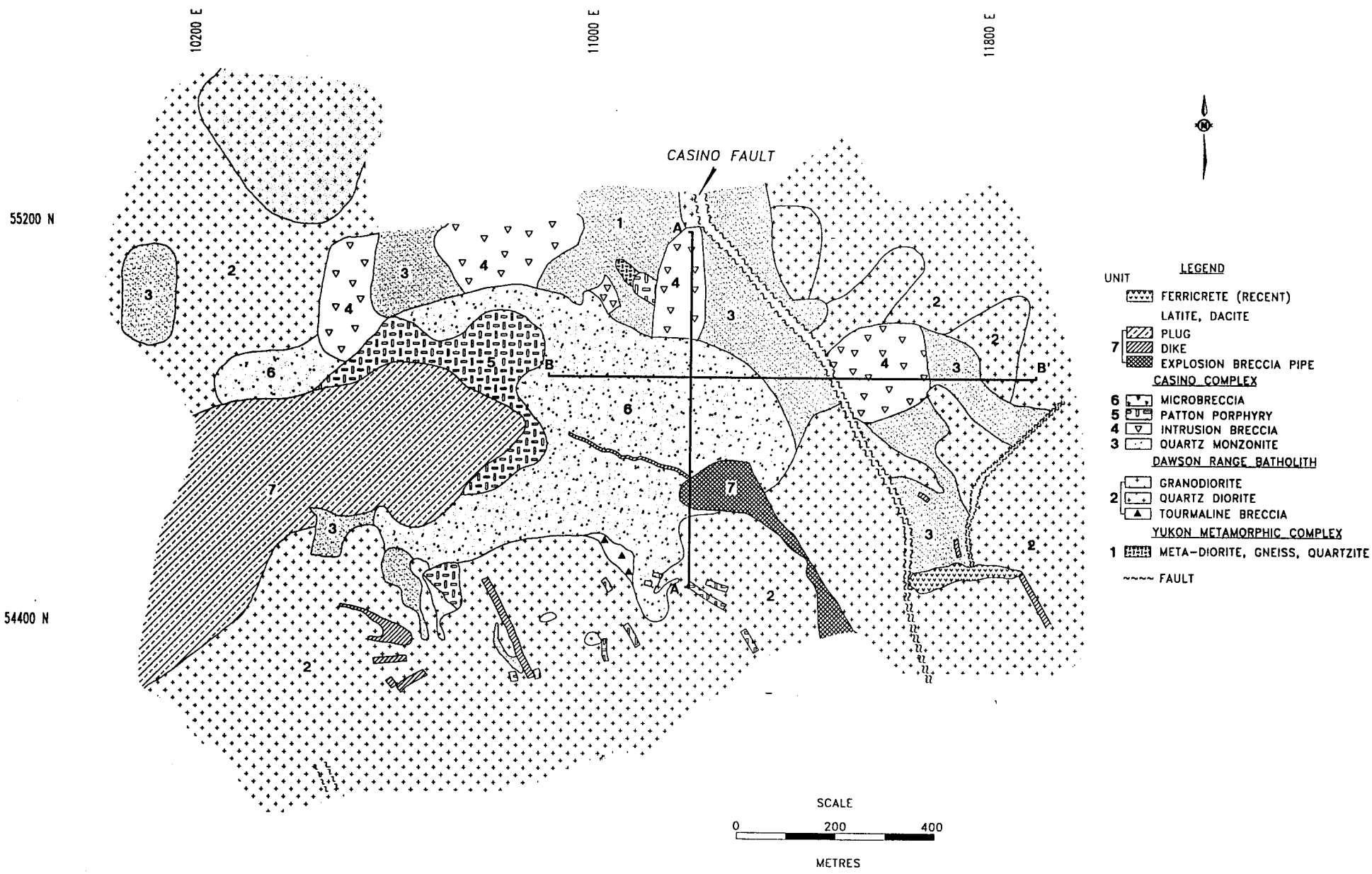


FIGURE 7 BED ROCK PROPERTY GEOLOGY

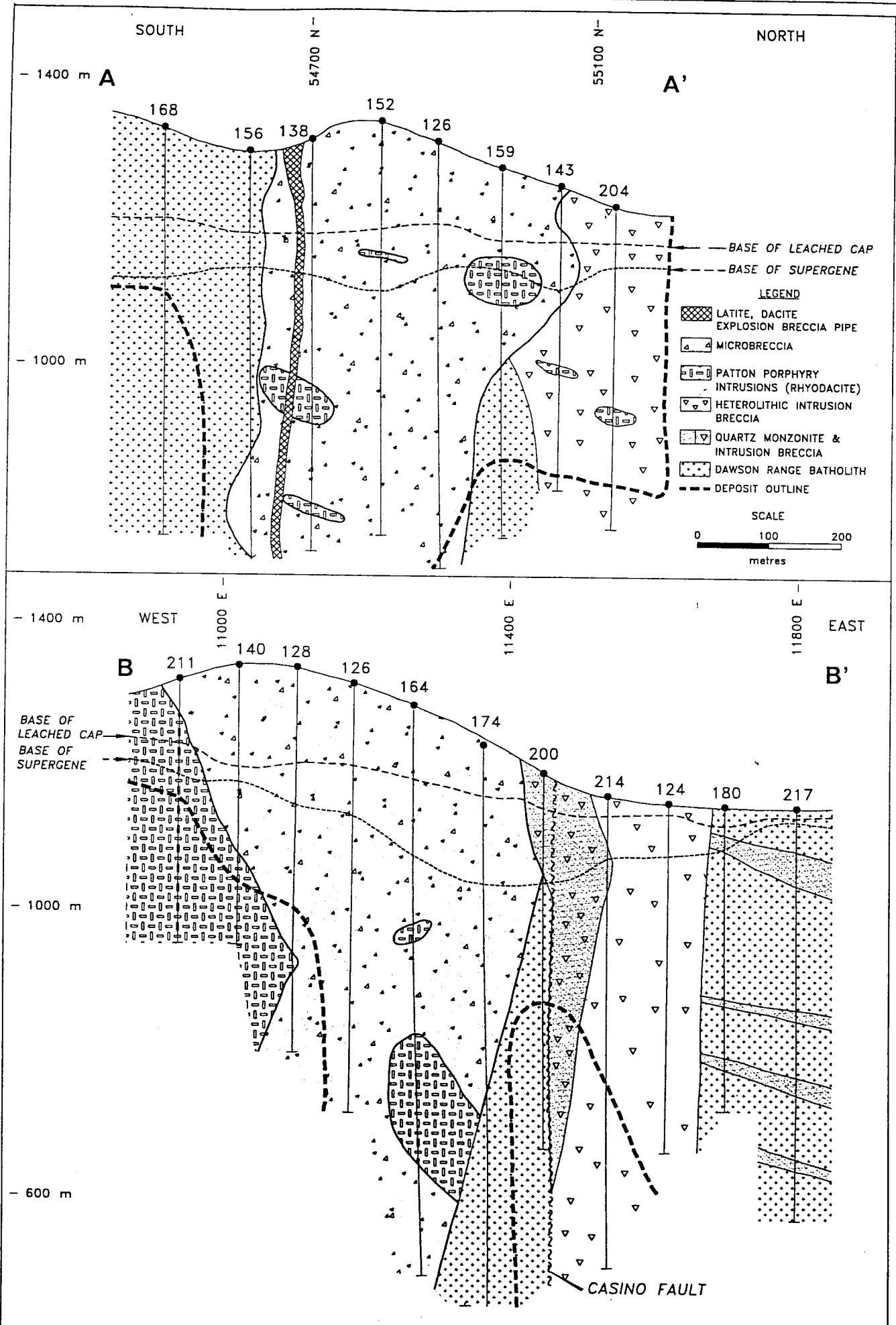


FIGURE 8 GEOLOGICAL CROSS SECTIONS

8.1 Yukon Metamorphic Complex (Unit 1) - Paleozoic (?)

The most common rock type of this complex is mafic gneiss, dominated by plagioclase, biotite, and quartz. Less abundant types include meta-diorite/amphibolite, quartz-rich and intermediate gneiss, and quartzite. The rocks of this complex occur mainly as fragments in intrusion breccias in the northern and northeastern parts of the Casino deposit and locally as roof pendants in the Dawson Range Batholith.

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

The Dawson Range Batholith is dominantly granodiorite in composition with lesser quartz monzonite and diorite. The batholith is the main country rock to the deposit.

The granodiorite is characterized by scattered hornblende phenocrysts averaging 0.5 to 1.2 cm long. It commonly contains 10 to 20% mafic minerals, with hornblende more abundant than biotite. Subhedral to euhedral plagioclase commonly show prominent compositional growth-zoning from andesine cores to oligoclase rims. Quartz and K-feldspar are interstitial to plagioclase. Quartz forms interlocking aggregates of slightly to moderately strained grains. Minor patches of myrmekite occur in plagioclase grains adjacent to those of K-feldspar. Quartz monzonite contains less abundant mafic minerals, lacks hornblende phenocrysts, and commonly contains biotite in more abundance than hornblende.

The diorite is dominated by andesine and hornblende in subequal proportions; however, in places, primary biotite is more abundant than hornblende. Some finer grained diorite is similar texturally to meta-diorite of the Yukon Metamorphic Complex.

The granodiorite on the southern margin of the deposit is commonly brecciated. Breccia ranges from crackle breccia to more intensely deformed cataclastic breccia. The cataclastic breccia contains 5 to 50% ragged fragments of the host rock ranging from 0.3 to 5 cm in size in an extremely fine to very fine grained, granulated groundmass dominated by plagioclase and quartz. Fragment sizes generally decrease with increasing brecciation. In places, the cataclastic breccia grades into the microbreccia core of the deposit; elsewhere, it is truncated by the microbreccia.

8.3 Casino Intrusive Complex (Units 3,4,5 & 6) - Upper Cretaceous (72-74 Ma)

Leucocratic quartz monzonite (Unit 3) is prominent just west of the Casino Fault. The monzonite is generally fine to locally medium grained, with approximately equal amounts of anhedral grained quartz, plagioclase, and K-feldspar.

Heterolithic intrusion breccia (Unit 4) occurs in the northern and eastern part of the deposit. It contains fragments of Dawson Range Batholith and Yukon Metamorphic rocks in a matrix of fine grained, leucocratic quartz monzonite. The amount of groundmass in the breccia ranges from 2 to 40% with fragments ranging in size from a few centimetres to a few metres. In drill core, intervals of diorite and granodiorite cut by scattered quartz monzonite dikes may be large rafts in the breccia or may represent country rock cut by abundant dikes of quartz monzonite. The intrusion breccia was formed along the margin of the quartz monzonite intrusion by stoping of blocks of wall rocks. Along the contact, intrusion breccia grades into quartz monzonite containing 1 to 5% xenoliths, mainly less than 10 cm in size.

The Patton Porphyry (72-74 Ma) (Unit 3, 5) represents two or more episodes of high-level intrusion of porphyritic hypabyssal dacite to rhyodacite. The main body of Patton Porphyry a few hundred metres across, occurs northwest of Patton Hill. Abundant Patton Porphyry fragments occur in the adjacent microbreccia. The contacts between the Patton Porphyry and the microbreccia are variable and range from sharply intrusive to gradational. Elsewhere, Patton Porphyry forms many discontinuous dikes ranging from a few cm to 20 m wide; these cut Casino quartz monzonite and less commonly rocks of the Dawson Range Batholith.

Most types of Patton Porphyry are porphyritic with plagioclase and biotite phenocrysts set in an aphanitic, commonly medium to dark green groundmass of latite to rhyodacite composition. Plagioclase phenocrysts normally comprise 10 to 30% of the rock and range in size from 2 to 7 mm, with some up to 2.5 cm in length. Biotite phenocrysts (1 to 5%) range from 2 to 3 mm across. Quartz phenocrysts (0 to 5%) are usually 3 to 5 mm in size. Some chloritic aggregates may be altered hornblende grains.

The intrusive microbreccia forms an irregularly shaped, subvertical pipe approximately 400 m in diameter in the core of the deposit and also forms a series of smaller irregular bodies to the southwest. It contains angular fragments of quartz grains and wall rocks in an extremely fine grained groundmass of rhyodacitic to rhyolitic composition but of uncertain genetic origin. In places the groundmass of the microbreccia has a very fine grained, interlocking igneous texture and elsewhere it resembles milled rock flour. Locally, strong potassic alteration destroyed primary textures. Quartz forms 10 to 20%, generally unstrained crystals and crystal fragments commonly 1 to 2 mm in size. A few have subhedral outlines, suggesting that they may represent early formed

quartz phenocrysts in a silica-saturated magma. They are similar texturally to quartz phenocrysts in some of the Patton Porphyry intrusions.

Lithic fragments in the microbreccia, ranging in size from 0.5 to 5 cm, commonly belong to the adjacent wallrock type; Dawson Range Batholith in the south, Patton Porphyry in the northwest, mixed fragments of heterolithic intrusion breccia and Yukon Group metamorphic rocks in the north and minor fragments of quartz monzonite in the east. This suggests only limited fragment transport and mixing in the microbreccia. Large blocks of non-brecciated Patton Porphyry, some exceeding 100 m in size, occur in the main body of microbreccia. Many lithic fragments are earlier breccias; some clasts contain mineralized quartz veins and some host sulfides indicating multiple episodes of brecciation and mineralization.

Late dikes, sills, and an explosion-breccia pipe (Unit 7), of probable late Cretaceous/Tertiary age, are latitic to dacitic in composition. Most dikes are steeply dipping and strike between 130 and 160 degrees. Some dikes are of slightly porphyritic latite containing 5 - 10 % plagioclase phenocrysts, mainly less than 1.0 mm in size, in an aphanitic to very fine grained groundmass dominated by plagioclase and K-feldspar. Some borders of the dikes are chilled and some show flow-banded or lenticular structures near the contact. On the east side of the Casino Fault a latite dike shows vesiculation, with quartz-filled amygdules stretched parallel to steep contacts. A large plug of porphyritic latite intrudes the western portion of the Casino Intrusive Complex.

Some late dikes in the south-central part of the deposit, which somewhat resemble the Patton Porphyry in texture, contain 2 to 5% coarse quartz phenocrysts and 1 to 3% plagioclase phenocrysts in an aphanitic latite groundmass.

The explosion-breccia is an irregular, vertical pipe up to 100 m across near the southeast margin of the central microbreccia body. It contains subrounded fragments, mainly of altered microbreccia, and less commonly of late, quartz-phyric dikes and Dawson Range Batholith in a groundmass which ranges from rock flour (probably formed mainly by granulation of the latite) to very fine grained latite. The breccia grades into a large latite dike which shows strong sheeting parallel to its contacts. Rocks of Unit 7 were intruded after the main hydrothermal event and contain only minor base-metal and precious-metal mineralization, most of which is contained in mineralized and altered clasts of microbreccia.

9.0 EXPLORATION PROGRAM

During the months of July and August, 1994, Pacific Sentinel Gold Corp. conducted physical work on eleven (11) placer leases in the Project Area. The physical work program consisted of overburden drilling as well as excavation, mapping and reclamation of trenches. A total of 51 drill holes and 70 trenches were completed. The drill logs for the placer lease assessment program are attached as Appendix I and the trench logs are attached as Appendix II.

The drilling and trenching for the placer lease assessment program was provided by E. Caron Drilling Ltd. of Whitehorse, Yukon Territory. Drill pads were built using a Caterpillar D-6 or D-7. A skid mounted wire line equipped Longyear 38 diamond drill was used for drilling and a tracked Hitachi UH09LC excavator with a one and a half cubic yard capacity bucket was used for trenching and drill pad preparation.

During the months of July and August, 1994, eighty-seven new placer claims were staked on the Casino property. These claims, located on Canadian Creek and Casino Creek, were staked over existing placer leases resulting in the conversion of these leases to claims.

Physical work of excavation, mapping, sampling, and assaying of one hundred and nine (109) trenches was completed on the claims during the period of July to October 1994. The trenches were excavated and then reclaimed immediately after mapping and sampling took place on them in an effort to minimize the environmental impact of such a large test pitting program. The trench (test pit) logs for this program are attached as Appendix III.

The trenching for the placer claim assessment program was provided by E. Caron Drilling Ltd. of Whitehorse, Yukon Territory. A tracked Hitachi UH09LC excavator with a one and a half cubic yard capacity bucket was used for excavating and reclaiming the trenches/test pits.

Heavy mineral concentrates were obtained from many of the trenches. These concentrates, as well as assay results, were used to determine if placer gold was present in the area of a trench. This information, as well as the geological and geotechnical information obtained from logging the overburden drill samples and trenches, will prove useful when planning the location of site facilities and further exploration activities.

10.0 CONCLUSIONS

The 1994 placer program provided detailed geological, geotechnical and grade coverage of the placer lease and claim area. Petrographic studies of heavy mineral concentrates show easily identifiable gold grains in the oxidized overburden especially in those areas immediately adjacent to the Casino Deposit. Higher proportions of gold grains are recognized in oxidized samples.

Gold in the oxide samples occurs almost entirely as liberated particles ranging in size from less than 50 up to 200 microns. Gold grains in unoxidized material are of similar size. However, locked or encapsulated gold particles are more common in unoxidized material. Locked particles are generally much smaller (10 - 15 microns) and are typically enclosed by pyrite and chalcopyrite.

Copper and zinc are substantially depleted in the oxidized material, whereas gold, silver and possibly lead are enriched. Gold enrichment in oxidized materials may be caused, in part, by the lower specific gravities of the oxidized rock.

Since the Casino property escaped Pleistocene continental glaciation, there is no overburden in the form of glacial tills or moraines over the Casino deposit area. The material overlying bedrock, while referred to in this report as overburden, actually consists of in situ residual bedrock, ranging in degree of decomposition from friable to completely decomposed. A weak, discontinuous soil profile overlies residual bedrock. Overburden materials therefore are predominately composed of residual bedrock. The exception to this may occur in the southern portion of the Casino Creek Valley where distinct alluvium occurrences were noted.

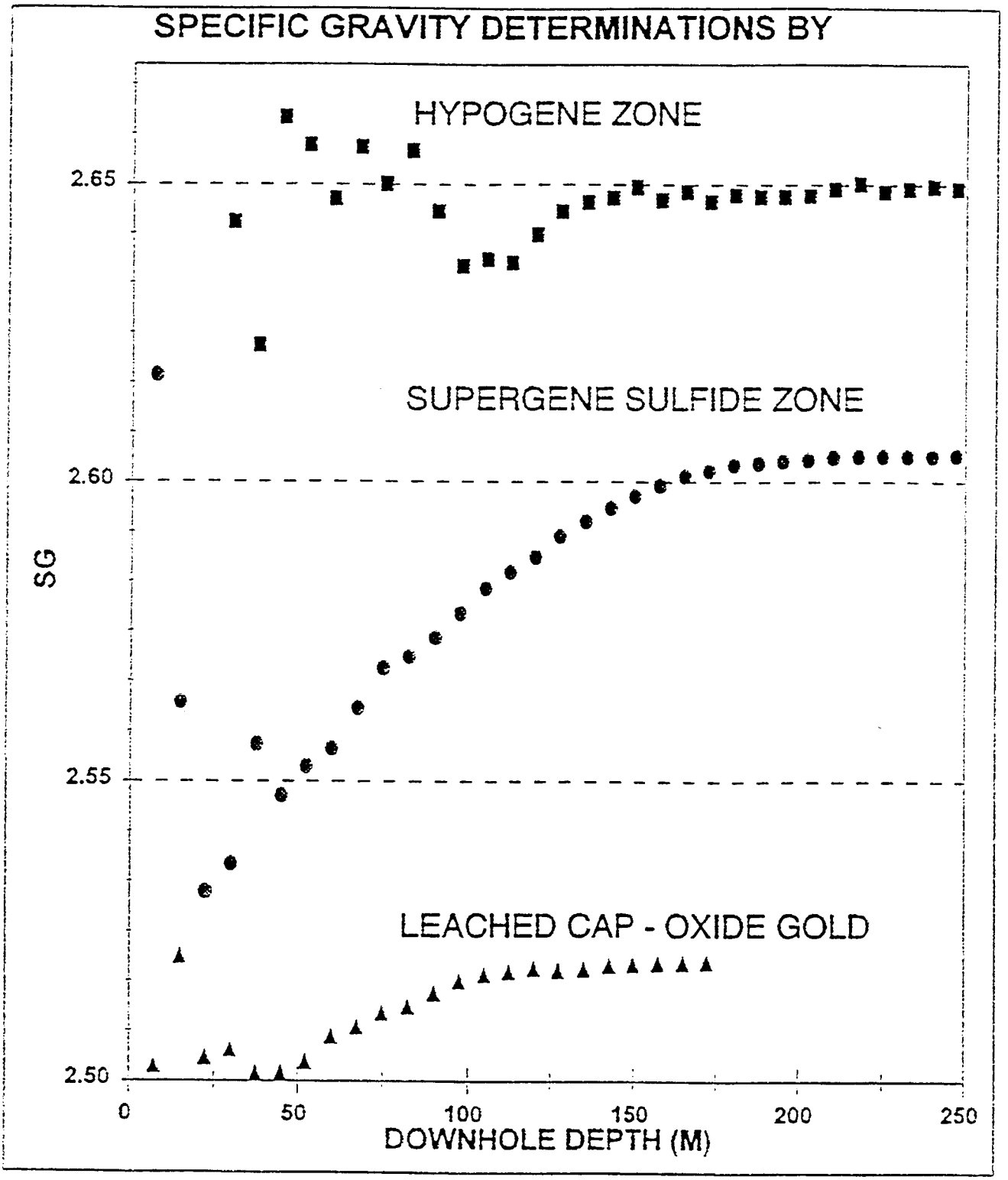


FIGURE 9 Specific Gravity Plot of Field Determinations in Mineralogical Zones

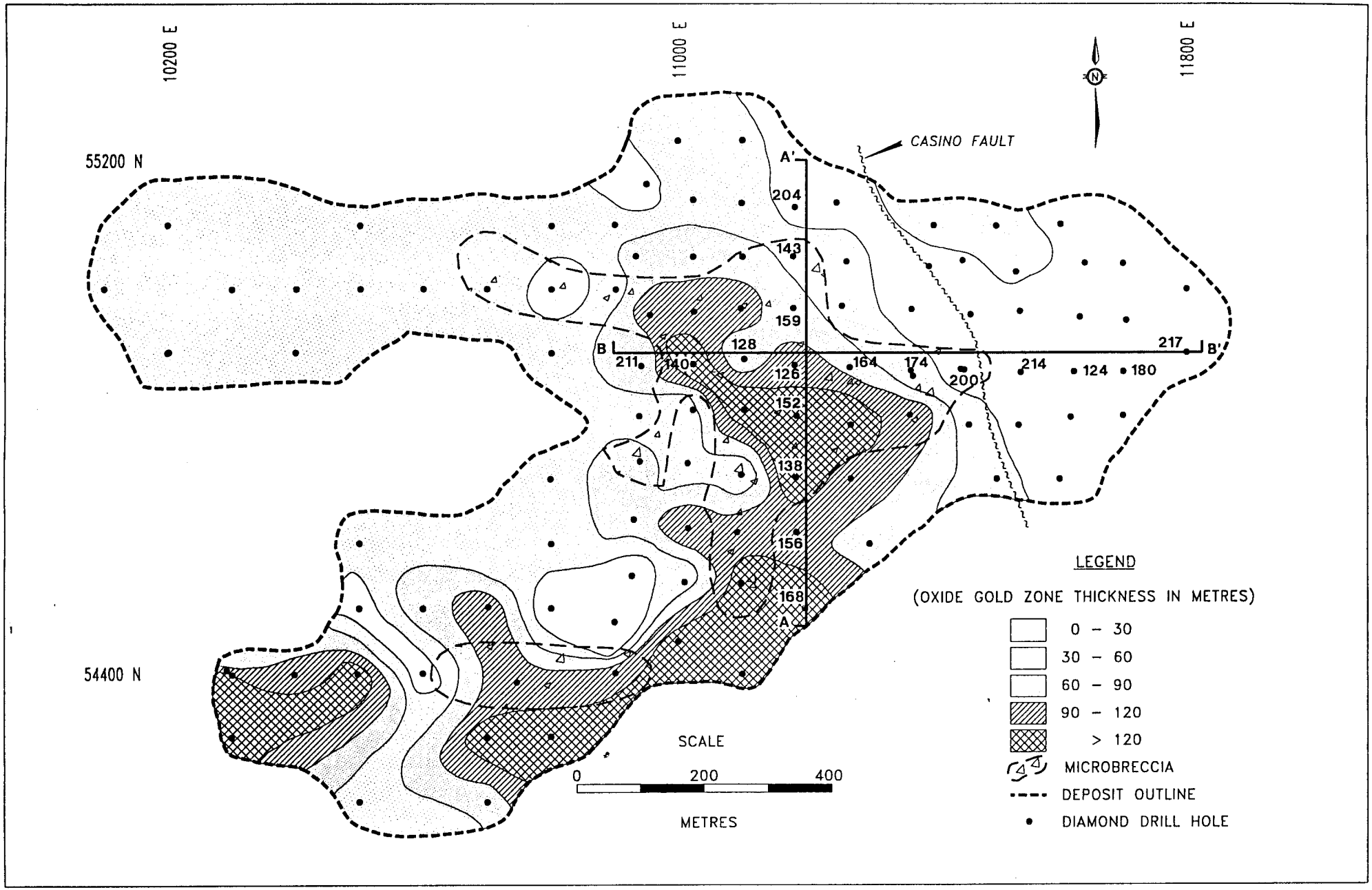


FIGURE **10** OXIDE GOLD ZONE THICKNESS CONTOURS

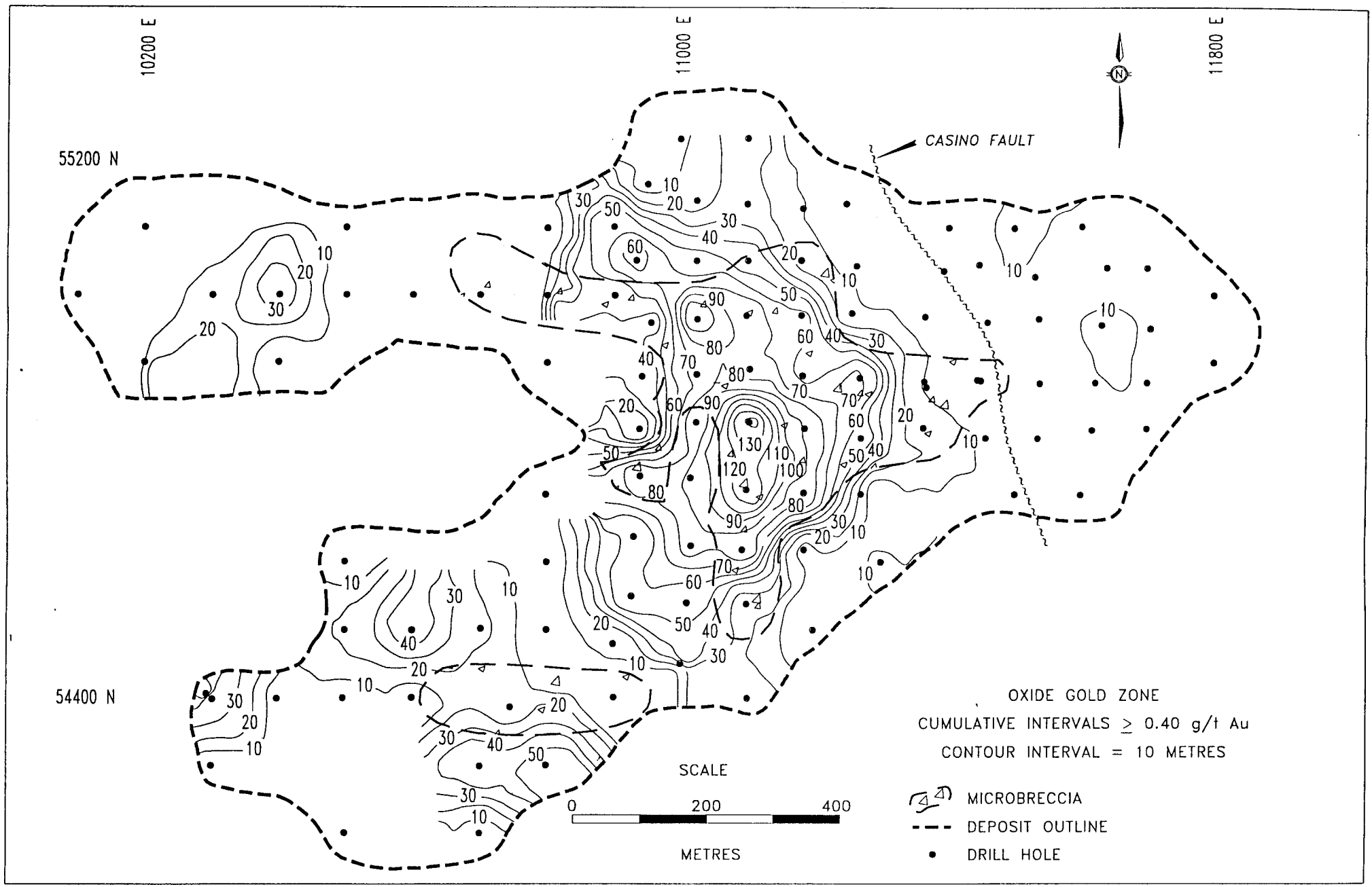


FIGURE **11** OXIDE GOLD CUMULATIVE ASSAY INTERVALS ≥ 0.4 g/t Au

11.0 REFERENCES

ARCHER, A.R. and MAIN, C.A., 1971. Casino, Yukon - A geochemical discovery of an unglaciated Arizona-type porphyry; CIM Spec. Vol. 11, proc. 3rd Int. Geochem Explor. Symp., p. 67-77.

BOWER, B., PAYNE, J., DELONG, C., and REBAGLIATI, C.M., 1994. The Oxide-Gold, Supergene and Hypogene Zones at the Casino Gold-Copper-Molybdenum Deposit, West Central Yukon. As yet unpublished CIM Special Porphyry Paper.

BOWER, B., CASE, T., DELONG, C., and REBAGLIATI, C.M., 1995. The 1994 Exploration and Geotechnical Drilling Program on the Casino Porphyry Copper-Gold-Molybdenum Deposit. Unpublished Company report.

CAIRNES, D.D., 1917. Investigations and Mapping Yukon Territory; Geological Survey of Canada, Summary Report., 1916, p. 12-23.

GODWIN, C.I., 1975. Geology of Casino Porphyry Copper-Molybdenum deposit Dawson Range, Y.T. Unpublished Ph.D. thesis, University of British Columbia, Vancouver, British Columbia, 197 p.

GODWIN, C.I., 1976. Casino; In Porphyry Deposits of the Canadian Cordillera, edited by A. Sutherland Brown, Canadian Institute of Mining and Metallurgy. Special Vol. 15, p. 344-358.

PAYNE, J.G., GONZALES, R.A., AKHURST, K. and SISION, W.G., 1987. Geology of Colorado (115 J/10), Selwyn River (115 J/9), and Prospector Mountain (115 I/5) Map Areas, Western Dawson Range, West Central Yukon; Maps with Legend and Text, Canada/Yukon Economic Development Agreement, Geoscience Open File 1987-3.

TEMPELMAN-KLUIT, D.J., 1976. The Yukon Crystalline Terrane: Enigma in the Canadian Cordillera, Geological Society of America Bull., V. 87, p. 1343-1357.

TITLEY, E.D., 1993. Manual for Logging and Data Compilation at the Casino Cu-Au-Mo Porphyry Diamond Drilling Project. Unpublished company report, Pacific Sentinel Gold Corp., Vancouver, British Columbia.

11.1 ADDITIONAL REFERENCES

BOSTOCK, H.S., 1966. Notes on Glaciation in Central Yukon Territory. Geological Survey of Canada Paper 65-36.

HUGHES, O.L., CAMPBELL, R.B., MULLER, J.E. and WHEELER, J.O., 1969. Glacial Limits and Flow Patterns, Yukon Territory, South of 65 Degrees North Latitude. Geological Survey of Canada Paper 68-34.

JACKSON, L.E. and MACKAY, T.D., 1991. Glacial Limits and Ice Flow Directions of the Last Cordilleran Ice Sheet in Yukon Territory between 60° and 63° North. Geological Survey of Canada Open File 2329.

12.0 STATEMENT OF COSTS

PLACER LEASE PROGRAM

OVERBURDEN DRILLING (E. Caron Drilling Ltd.)			
Drilling:	1523 feet @ $ 22.00/foot	$ 33,506.00	
Drill Pad Preparation:	71 shifts @ $532.00/shift	$ 37,772.00	
	Sub-total		$ 71,278.00
TRENCHING (E. Caron Drilling Ltd.)			
Excavating/Reclaiming:	70 trenches @ $547.00/trench Avg.	$ 38,290.00	
	Sub-total		$ 38,290.00
TOTAL EXPENDITURES 1994 PLACER LEASE PROGRAM			**$ 109,568.00**

PLACER CLAIM PROGRAM

TEST PITTING (E. Caron Drilling Ltd.)			
Excavating/Reclaiming:	109 trenches @ $610.00/trench Avg.	$ 66,490.00	
	Sub-total		$ 66,490.00
SAMPLE ANALYSIS (Chemex Labs & Min-En Labs)			
48 Samples @ $30.00 per sample		$ 1,440.00	
	Sub-total		$ 1,440.00
ROOM AND BOARD (Casino Camp)			
180 man days at $100.00 per man day		$ 18,000.00	$ 18,000.00
	Sub-total		
REPORT PREPARATION (Pacific Sentinel Staff)			
3 days @ $300.00 per day		$ 900.00	
	Sub-total		$ 900.00
TOTAL EXPENDITURES 1994 PLACER CLAIM PROGRAM			**$ 86,830.00**

TOTAL EXPENDITURES 1994 PLACER ASSESSMENT PROGRAM **$ 196,488.00**

13.0 STATEMENT OF QUALIFICATIONS

I, Lena Kathryn Brommeland, of the City of Vancouver, Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am an employee of Pacific Sentinel Gold Corp. with a business office at Suite 1020 - 800 West Pender Street, Vancouver, British Columbia.

2. I am a graduate in Geology with a Bachelor of Science degree from the University of British Columbia in 1989.

3. I have practiced my profession continuously in the Yukon Territory and British Columbia since graduation.

4. I was involved in the 1994 exploration program on the subject property and authored this report which documents the results of the program.

Lena K. Brommeland

Lena K. Brommeland, B.Sc.

Dated at Port Clements, British Columbia, this 15 th day of August, 1995

108 000 E
110 000 E
112 000 E
114 000 E
258 000 N
256 000 N
254 000 N
252 000 N
250 000 N
248 000 N
246 000 N
244 000 N
N
3 MILE
PL9038
PL9074
PL9053
PL9050
To Yukon River
ANGEL 1 P11628
ANGEL 2 P11629
ANGEL 3 P11630
AL 1
DISCOVERY 43201
ROY 1
DISC
43200
JD
P32133
CREEK 1 P3815
CREEK 2 P3816
CREEK 3 P3817
CREEK 4 P3818
CREEK 5 P3819
CREEK 6 P3820
CREEK 7 P3821
CREEK 8 P3822
CREEK 9 P3823
CREEK 10 P3824
PL9051 2 MILE
PL9033 1 MILE
PL9076 5 MILE
PL9053 3 MILE
PL9050 2 MILE
P5756
BOB
ROY 2
DISC
PL9063 2 MILE
PL9056 2 MILE
PL9061
PL9060
PL9062
PL9058
PL9221 3 MILE 5th TIER
PL9035 2 MILE
PL9034 2 MILE
PL9220 2 MILE 4th TIER
PL9222 2 MILE 3rd TIER
PL9223 2 MILE 2nd TIER
PL9219 3 MILE 1st TIER
PL9008 5 MILE
PL9037 3 MILE
PL9048 1 MILE
PL9049 1 MILE
PL9040 2 MILE
PL9039 2 MILE
PL9041 5 mile
PL9043 5 mile
PL9042 5 mile
PL9045 2 MILE
PL9059 2 MILE
PL9036 4 MILE
PL9055 2 MILE
PL9046 1 MILE
PL9052 1 MILE
PL9044 2 MILE
PL9047 2 MILE
PL9057 2 MILE
Access road
Camp
Dalton Hill
DH304
DH320
DH333
DH339
DH335
DH251
DH336
DH264
DH262
DH265
DH289
DH286
DH261
DH338
DH340
DH342
DH343
DH344
DH346
DH345
DH347
DH348
DH349
DH350
DH351
SCALE
METRES
0 500 1000 1500
0 .5 1
MILE

PACIFIC SENTINEL GOLD CORP.
CASINO PROPERTY
LOCATION MAP
1994 TRENCHES AND PLACER LEASES
120161
DATE: APRIL 1995 | SCALE: 1 :20,000 | DRAWN BY: JHT | FIGURE: ASSESSMENT

108 000 E
110 000 E
112 000 E
114 000 E
258 000 N
256 000 N
254 000 N
252 000 N
250 000 N
248 000 N
246 000 N
244 000 N
To Yukon River
Gulch
Proctor
Patton Hill
Camp
Access road
ANGEL 1 P11628
ANGEL 2 P11629
ANGEL 3 P11630
AL 1 DISCOVERY 43201
ROY 1 43200
ROY 2 43221
DISC
JO
BOB P3756
CREEK 1 P3815
CREEK 2 P3816
CREEK 3 P3817
CREEK 4 P3818
CREEK 5 P3819
CREEK 6 P3820
CREEK 7 P3821
CREEK 8 P3822
CREEK 9 P3823
CREEK 10 P3824
P32133
CASE 58 P41603
CASE 57 P41602
CASE 56 P41601
CASE 55 P41600
CASE 54 P41599
CASE 53 P41598
CASE 52 P41597
CASE 51 P41596
CASE 50 P41595
CASE 49 P41594
CASE 48 P41593
CASE 47 P41592
CASE 46 P41591
CASE 45 P41590
CASE 44 P41589
CASE 43 P41588
CASE 42 P41587
CASE 41 P41586
CASE 40 P41585
CASE 39 P41584
CASE 38 P41583
CASE 37 P41582
CASE 36 P41581
CASE 35 P41580
CASE 34 P41579
CASE 33 P41578
CASE 32 P41577
CASE 31 P41576
CASE 30 P41575
CASE 29 P41574
CASE 28 P41573
CASE 27 P41572
CASE 26 P41571
CASE 25 P41570
CASE 24 P41569
CASE 23 P41568
CASE 22 P41567
CASE 21 P41566
CASE 20 P41565
CASE 19 P41564
CASE 18 P41563
CASE 17 P41562
CASE 16 P41561
CASE 15 P41560
CASE 14 P41559
CASE 13 P41558
CASE 12 P41557
CASE 11 P41556
CASE 10 P41555
CASE 9 P41554
CASE 8 P41553
CASE 7 P41552
CASE 6 P41551
CASE 5 P41550
CASE 4 P41549
CASE 3 P41548
CASE 2 P41547
CASE 1 P41546
CASE 59 P41626
CASE 60 P41627
CASE 61 P41628
CASE 62 P41629
CASE 63 P41630
CASE 64 P41631
CASE 65 P41668
CASE 66 P41669
CASE 67 P41670
CASE 68 P41632
CASE 69 P41633
CASE 70 P41634
CASE 71 P41635
CASE 72 P41636
CASE 73 P41637
CASE 74 P41638
CASE 75 P41639
CASE 76 P41640
CASE 77 P41641
CASE 78 P41642
CASE 79 P41643
CASE 80 P41644
CASE 81 P41645
CASE 82 P41646
CASE 83 P41647
CASE 84 P41648
CASE 85 P41649
CASE 86 P41650
TP94-1 TP94-2 TP94-3 TP94-4 TP94-5 TP94-6 TP94-7 TP94-8 TP94-9 TP94-10 TP94-11 TP94-12 TP94-13 TP94-14 TP94-15 TP94-16 TP94-17 TP94-18 TP94-19 TP94-20 TP94-21 TP94-22 TP94-23 TP94-24 TP94-25 TP94-26 TP94-27 TP94-28 TP94-29 TP94-30 TP94-31 TP94-32 TP94-33 TP94-34 TP94-35 TP94-36 TP94-37 TP94-38 TP94-39 TP94-40 TP94-41 TP94-42 TP94-43 TP94-44 TP94-45 TP94-46 TP94-47 TP94-48 TP94-49 TP94-50 TP94-51 TP94-52 TP94-53 TP94-54 TP94-55 TP94-56 TP94-57 TP94-58 TP94-59 TP94-60 TP94-61 TP94-62 TP94-63 TP94-64 TP94-65 TP94-66 TP94-67 TP94-68 TP94-69 TP94-70 TP94-71 TP94-72 TP94-73 TP94-74 TP94-75 TP94-76 TP94-77 TP94-78 TP94-79 TP94-80 TP94-81 TP94-82 TP94-83 TP94-84 TP94-85 TP94-86 TP94-87 TP94-88 TP94-89 TP94-90 TP94-91 TP94-92 TP94-93 TP94-94 TP94-95 TP94-96 TP94-97 TP94-98 TP94-99 TP94-100 TP94-101 TP94-102 TP94-103 TP94-104 TP94-105 TP94-106 TP94-107 TP94-108

SCALE
METRES
0 500 1000 1500
0 .5 1
MILE

PACIFIC SENTINEL GOLD CORP.
CASINO PROPERTY
LOCATION MAP
1994 PLACER TEST PITS
AND 120161
PLACER CLAIMS

DATE: APRIL 1995 | SCALE: 1 :20,000 | DRAWN BY: JHT | FIGURE: ASSESSMENT

APPENDIX I

PLACER LEASE DRILL LOGS

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH251

SURVEY COORDINATES

NORTHING	255 197.93 m	AZIMUTH	N/A deg.
EASTING	111 500.99 m	INCLINATION	-90° deg.
ELEVATION	1199.69 m	LENGTH	N/A m

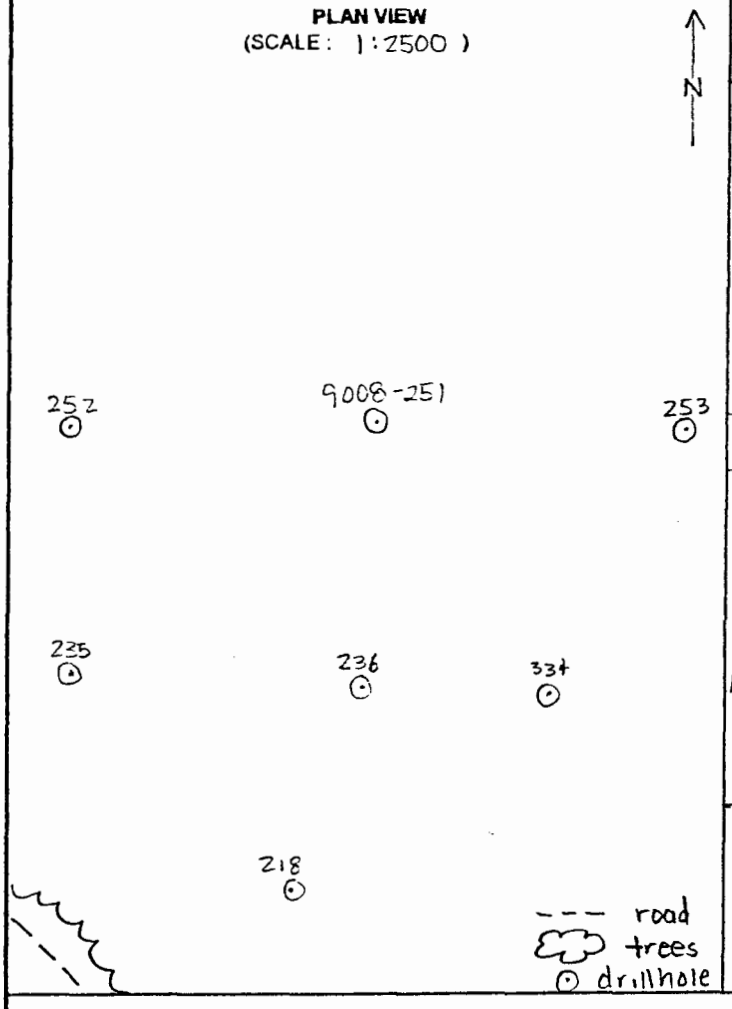
DIMENSIONS

AVERAGE DEPTH	18.90 m
AVERAGE WIDTH	N/A m

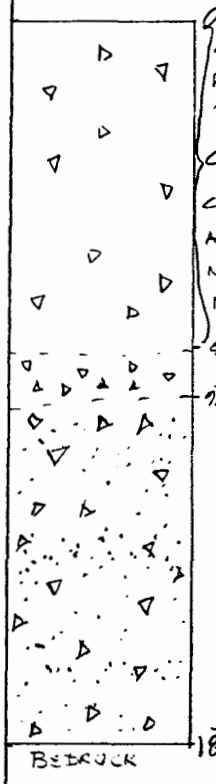
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORING	$22/ft	62'	1364
DRILL COSTS	$44/hr	24	1,056
TOTAL EXPENDITURES			2420

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:200)



0.00
COLLUVIUM UNSORTED
PEBBLES - V.COARSE - 10%
COARSE - 30%
MED - 60%
COBBLES - SMALL - 2%
GRANODIORITE
ANGULAR - SUBANGULAR
MODERATELY OXIDIZED
NO FINES

9.53m
COLLUVIUM AS ABOVE W/ FERRO-MANGANESE OXIDATION

9.75m
RESIDUAL BEDROCK - UNSORTED
COLLUVIAL SOIL.
PEBBLES 40% V.COARSE - 5%
COARSE - 5%
MED - 10%
FINE - 10%
V.FINE - 10%
SAND 40% V.COARSE - 10%
COARSE - 10%
MED - 10%
FINE - 5%
V.FINE - 5%
SILT 20% V.COARSE - 10%
COARSE - 10%

18.1m
BEDROCK
GRANODIORITE PREDOMINANT

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH252

SURVEY COORDINATES

NORTHING	255 199.94 m	AZIMUTH	N/A deg.
EASTING	111 401.07 m	INCLINATION	-90 deg.
ELEVATION	1199.80 m	LENGTH	N/A m

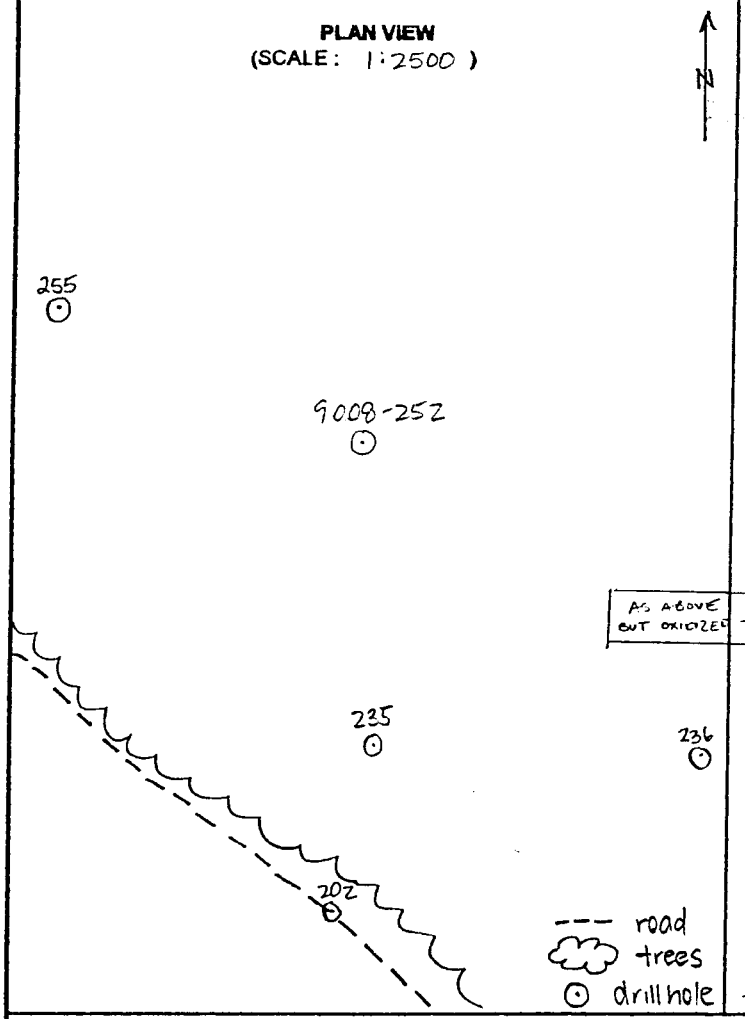
DIMENSIONS

AVERAGE DEPTH 29.26 m
AVERAGE WIDTH N/A m

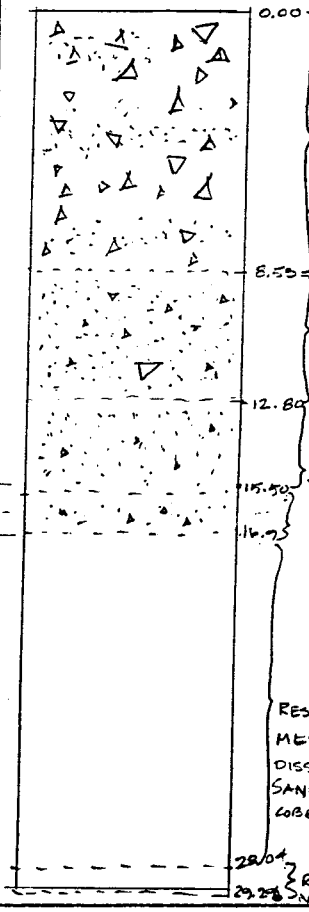
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORING	$22/ft	96.1	2112
DRILLING	$44	24	1056
TOTAL EXPENDITURES			$ 3168

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:250)



0.00 – 8.53: COLLUVIUM - 90% GRANODIORITE
SMALL BOULDERS: 2%
LARGE COBBLES: 5%
SMALL COBBLES: 5%
VERY COARSE PEBBLES: 10%
COARSE PEBBLES: 20%
VERY FINE - MED PEBBLES: 30%
MED. - VER COARSE SAND: 27%
COARSE GRAINED BLOCKY COLLUVIUM W/ SANDY LENSES.

8.53 – 12.80: COLLUVIAL SOIL W/ PEBBLES & RARE LARGE COBBLES OF GRANODIORITE. PATCHY GREY TO REDDISH BROWN DRY SANDY SOIL - 60% FINE TO V COARSE SAND, POORLY SORTED W/ 20% MED.-COARSE GRANODIORITE PEBBLES 2% COBBLES, 10% V.FINE - MED PEBBLES 5% V.FINE SAND, 3% SILT.

12.80 – 15.50: AS ABOVE BUT OXIDIZED

15.50 – 16.76: ALLUVIUM: MED. GREY MOIST MATRIX OF COARSE SILT & V.FINE - FINE SAND W/ POORLY SORTED FINE - V. COARSE PEBBLES & RARE SMALL COBBLES OF GRANODIORITE, SILT - 20%, SAND - 50%, PEBBLES - 30%, COBBLES - 2%

16.76 – 28.04: RESIDUAL BEDROCK SOIL - UNSORTED MEDIUM - COARSE SAND & PEBBLES OF DISSAGGREGATED GRANODIORITE, FINE - V COARSE SAND 50%, FINE - V COARSE PEBBLES 30%, SMALL COBBLES 10%.

28.04 – 29.26: RESIDUAL BEDROCK AS ABOVE BUT NOT COMPLETELY DISAGGREGATED

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH 253

SURVEY COORDINATES

NORTHING	255199.03 m	AZIMUTH	N/A deg.
EASTING	111598.29 m	INCLINATION	-90 deg.
ELEVATION	4195.42 m	LENGTH	N/A m

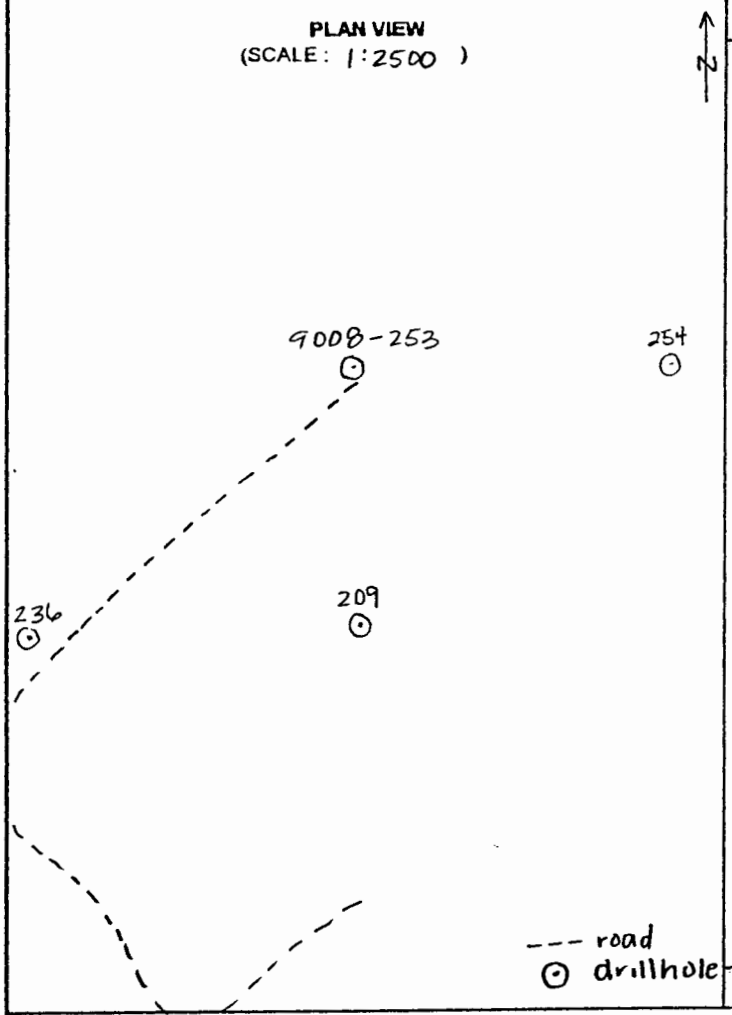
DIMENSIONS

AVERAGE DEPTH	12.34 m
AVERAGE WIDTH	N/A m

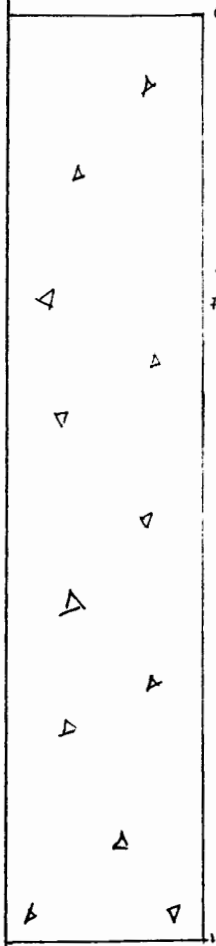
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORING OVERB.	$22/ft	40.5'	891
DRILL COSTS	@ 44/HR	12 HRS	528
TOTAL EXPENDITURES			$ 1419

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:100)



UNSORTED COLLUVIUM
MEDIUM PEBBLES: 2%
COARSE PEBBLES: 9%
V. COARSE PEBBLES: 7%
SMALL COBBLES: 1%

GRANODIORITE: 70%
FINE GRAINED QTZ MONZONITE: 30%

- NO FINES

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: RECOVERY ONLY 5% - FINER MATERIAL NOT RECOVERED

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH254

SURVEY COORDINATES

NORTHING	255 200.20 m	AZIMUTH	N/A deg.
EASTING	111 700.36 m	INCLINATION	-90° deg.
ELEVATION	1190.70 m	LENGTH	N/A m

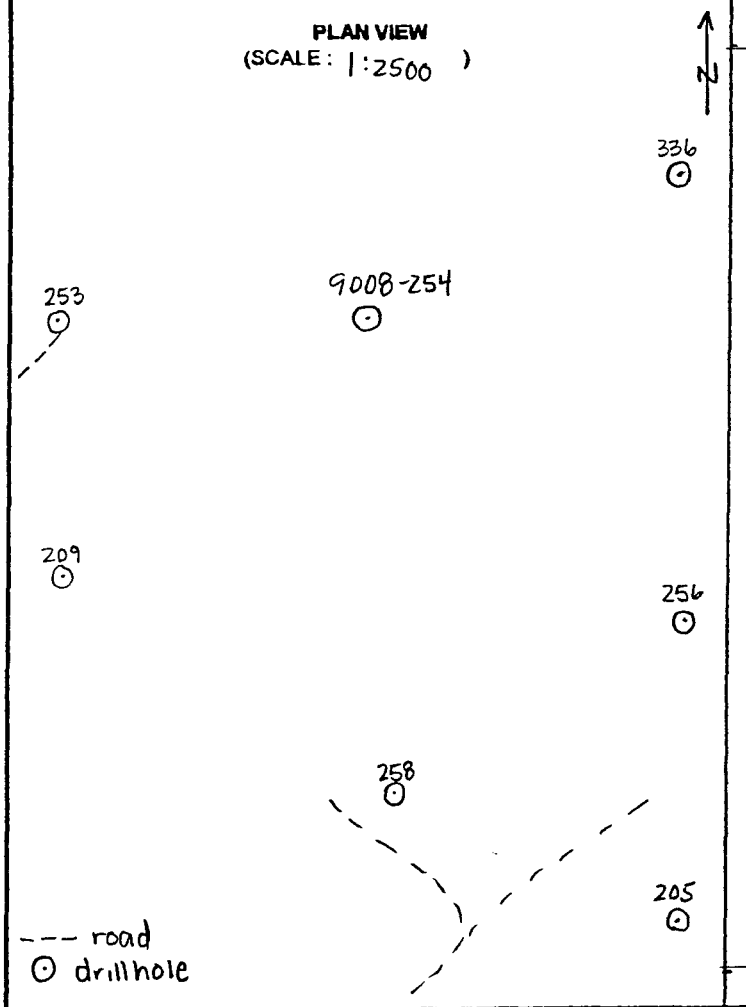
DIMENSIONS

AVERAGE DEPTH 4.88 m
AVERAGE WIDTH N/A m

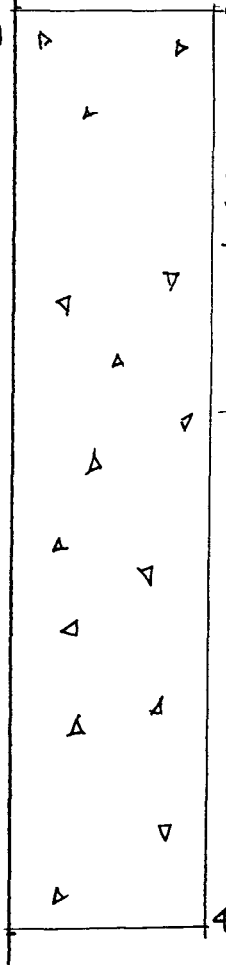
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORING OVBR.	$22/ft	16'	352
DRILL COSTS	$44/HR	12 HRS	528
TOTAL EXPENDITURES			$ 880

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:40)



UNSORTED COLLUVIUM
- GRAIN SIZES PRESENT
MEDIUM PEBBLES - 8%
COARSE PEBBLES - 90%
V. COARSE PEBBLES - 2%
- ROCK TYPES PRESENT
FINE GRAINED QUARTZ MONZONITE 75%
GRANODIORITE 25%
- NO FINES

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: 8% OVERBURDEN RECOVERY NO FINES RECOVERED

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH-255

SURVEY COORDINATES

NORTHING	255250.98 m	AZIMUTH	N/A deg.
EASTING	111298.96 m	INCLINATION	-90 deg.
ELEVATION	1207.64 m	LENGTH	N/A m

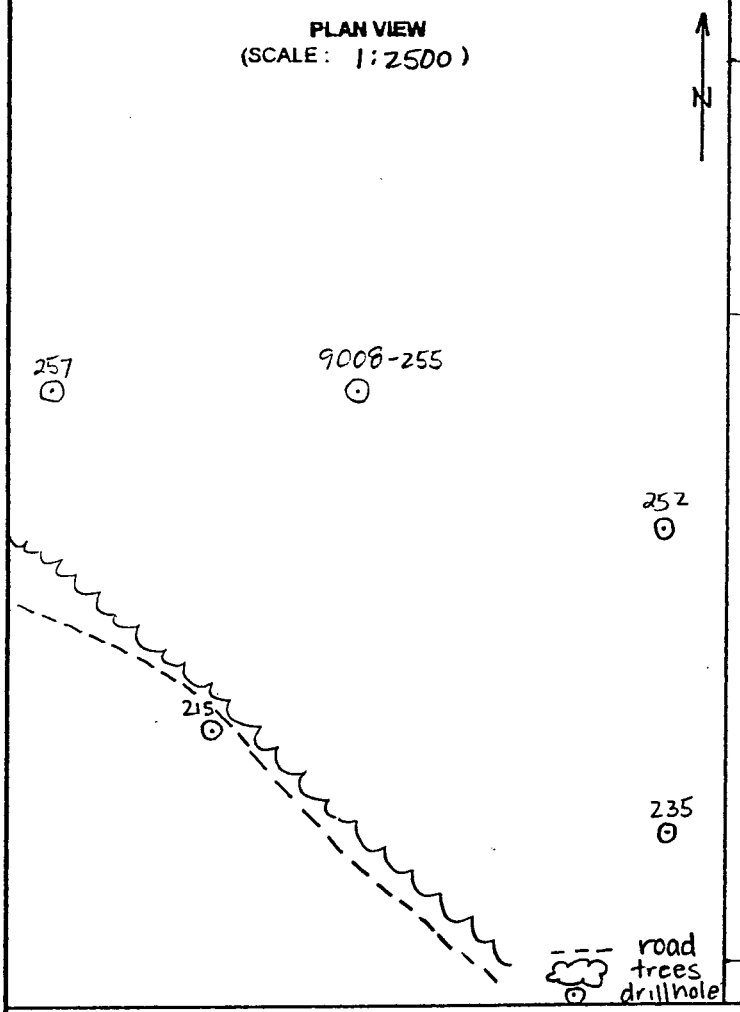
DIMENSIONS

AVERAGE DEPTH 29.57 m
AVERAGE WIDTH N/A m

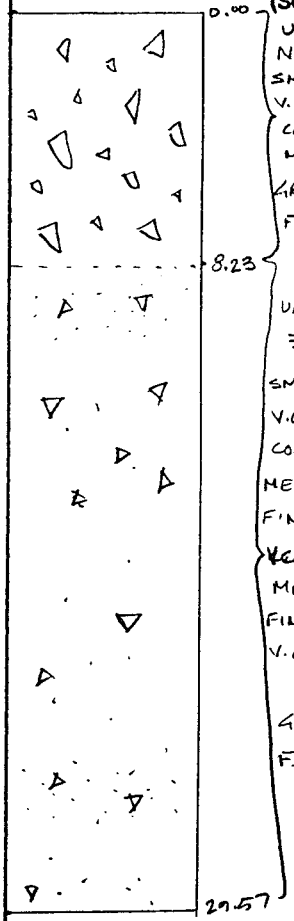
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORING OVBR	$22.00	97	2134
DRILL COSTS	$44 -	48	2112
TOTAL EXPENDITURES		$	4246

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:250)



0.00 – 8.23
UNSORTED COLLUVIUM 7% RECOVERY
NO FINES
SMALL COBBLES 5%
V. COARSE PEBBLES 40%
COARSE PEBBLES 50%
MED. PEBBLES 5%
GRANODIORITE 70%
F.G. QTZ MONZONITE 30%

8.23 – 29.57
UNSORTED COLLUVIUM / COLLUVIAL SOIL
3% RECOVERY
SMALL COBBLES 1%
V. COARSE PEBBLES 2%
COARSE PEBBLES. 10%
MED PEBBLES. 15%
FINE - V. FINE PEBBLES 10%
COARSE - COARSE SAND - 30%
MED SAND - 20%
FINE - V. FINE SAND - 5%
V. COARSE SILT - 5%

GRANODIORITE - 80%
F.G MONZONITE. - 20%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: 5% RECOVERY - MOST

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: CANADIAN
TYPE: BENCH

PIT IDENTIFICATION NUMBER: DH-257

SURVEY COORDINATES

NORTHING	255 232.66 m	AZIMUTH	N/A deg.
EASTING	111 199.68 m	INCLINATION	-90 deg.
ELEVATION	1209.20 m	LENGTH	N/A m

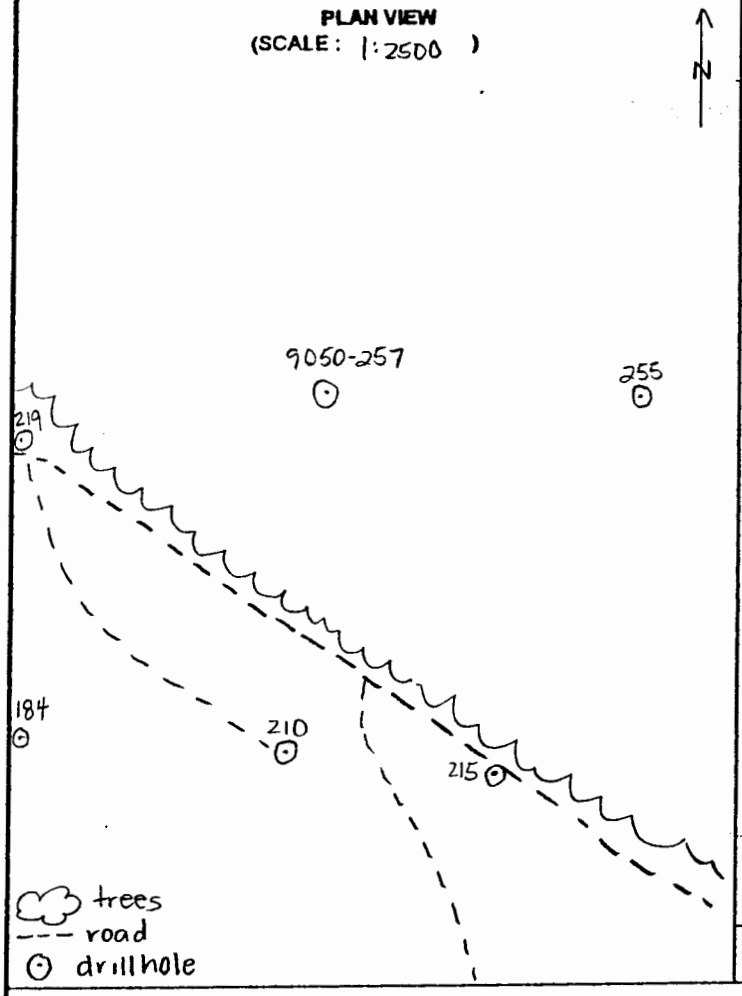
DIMENSIONS

AVERAGE DEPTH 33.22 m
AVERAGE WIDTH N/A m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:300)
METERES

0.00 UNSORTED COLLUVIAL SOIL

GRAIN SIZE DISTRIBUTION:

PEBBLES: 50%
V. COARSE - 1%
COARSE - 5%
MED - 20%
FINE - 15%
V. FINE - 10%

SAND: 50%
V. COARSE - 13%
COARSE - 20%
MED - 10%
FINE - 5%
V. FINE - 2%

RATIO OF PEBBLES TO SAND VARIES FROM 3:1 TO 1:1 TO 1:3 AND IS NOT REGULAR IN ITS DISTRIBUTION.

SAND VARIES FROM RED BROWN TO GREY

ROCK TYPE DISTRIBUTION:
GRANODIORITE: 30%
F.G. MONZONITE: 70%

29.57 UNSORTED COLLUVIUM
COBBLES SMALL 1%
PEBBLES V. COARSE - 5%
COARSE - 20%
MED - 40%
FINE - 10%
V. FINE - 10%

33.22 SAND V COARSE - COARSE 14%

GRANODIORITE - 40%
F.G. MONZONITE - 20%
MILLED BRECCIA - 40%
- MINOR DISAGGREGATED ROCK

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: 20% RECOVERY

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH258

SURVEY COORDINATES

NORTHING	255039.43 m	AZIMUTH	270° deg.
EASTING	111697.00 m	INCLINATION	-45° deg.
ELEVATION	1167.72 m	LENGTH	N/A m

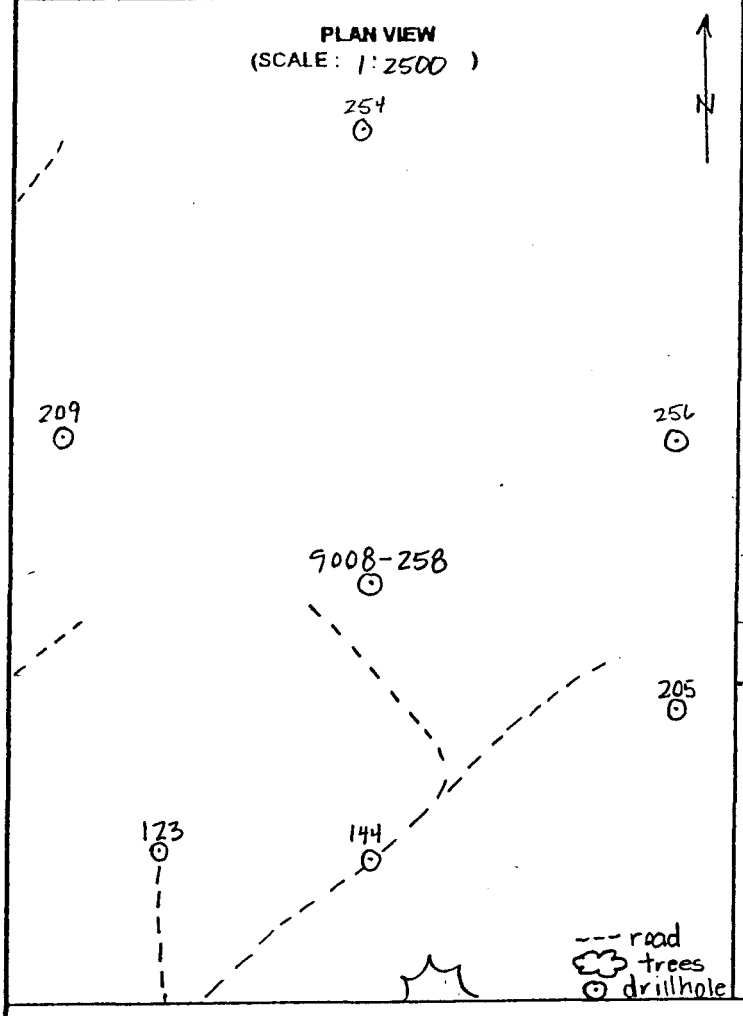
DIMENSIONS

AVERAGE DEPTH 14.43 m
AVERAGE WIDTH N/A m

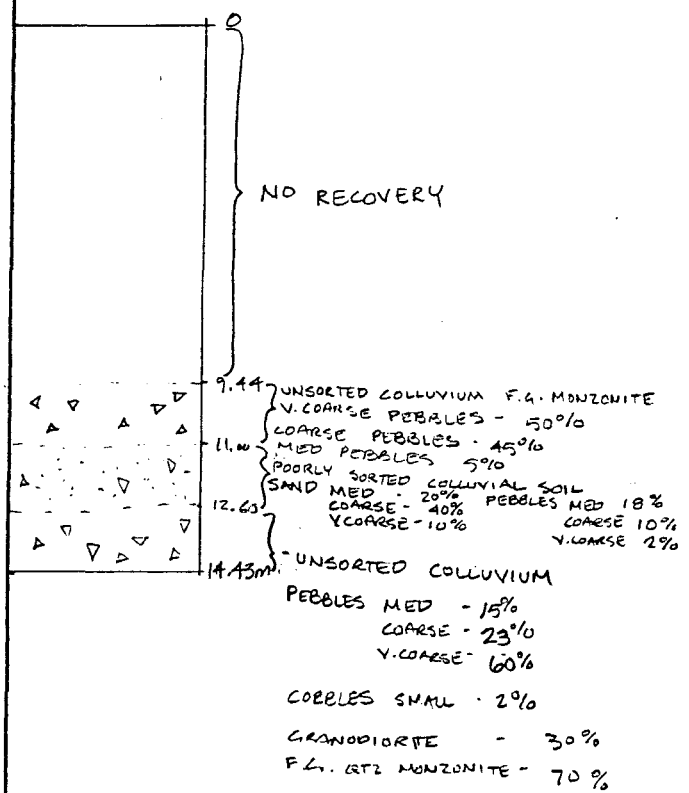
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORING OVBR	$22/ft	47'	1,034
DRILL COSTS	$44/HR	24 HRS	1,056
TOTAL EXPENDITURES			2090

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:200)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: 44% RECOVERY FROM 9.44 TO 14.43m

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH259

SURVEY COORDINATES

NORTHING	254900.61 m	AZIMUTH	N/A deg.
EASTING	111899.99 m	INCLINATION	-90° deg.
ELEVATION	1134.18 m	LENGTH	N/A m

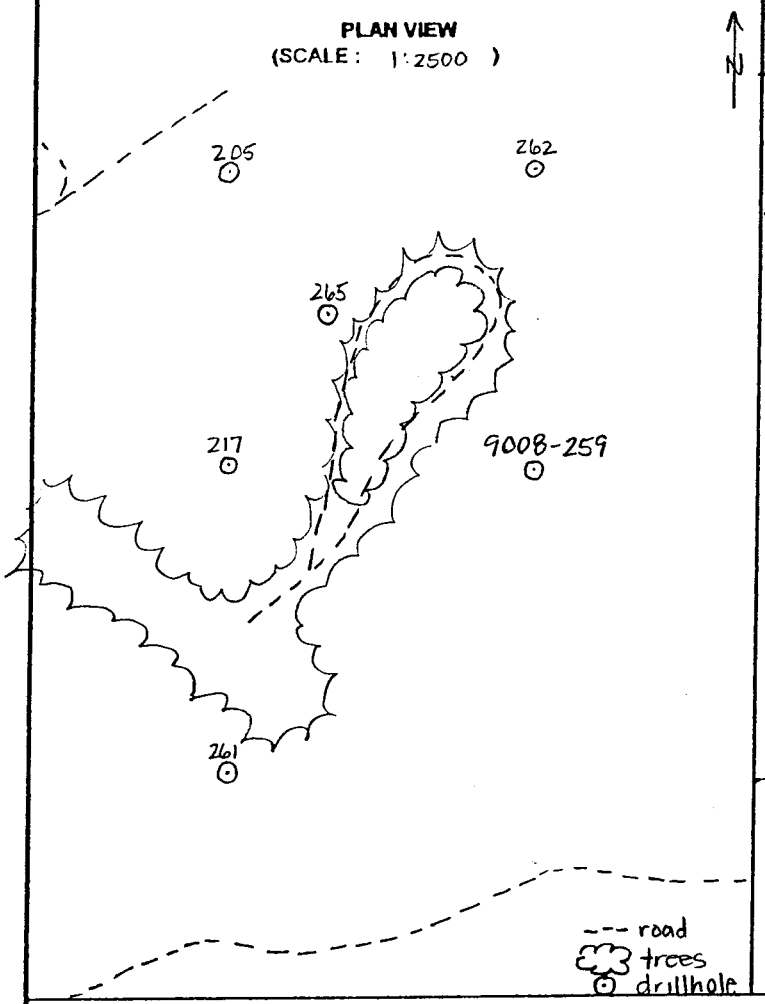
DIMENSIONS

AVERAGE DEPTH 17.26 m
AVERAGE WIDTH N/A m

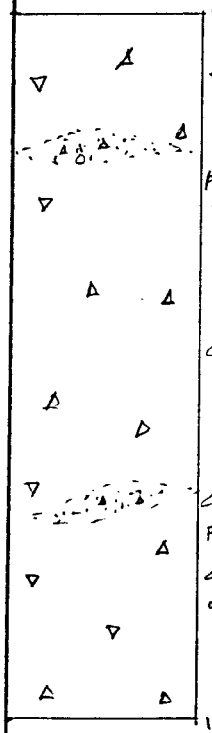
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORE OVERBURDEN	$22/FT	57'	1254
DRILL COSTS	$44/HR	24 HRS	1056
TOTAL EXPENDITURES			$ 2310

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:200)



UNSORTED COLLUVIUM

SAND - OCCURS AS DISAGGREGATED ROCK IN DISCRETE LENSES
- MED - 2%
- COARSE - 3%
- V. COARSE - 5%

PEBBLES - DISSAGREGATED ROCK LENSES & THROUGHOUT PROFILE.
- FINE - 5%
- MED - 20%
- COARSE - 20%
- V. COARSE 10%

COBBLES - SCATTERED THROUGH PROFILE
- SMALL - 5%

ROCK TYPES:
- GRANODIORITE: 70%
- F.G. QTZ MONZONITE 30%

GRANODIORITE DISPLAYS DISAGGREGATION. OXIDATION COMMON ON SURFACES

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: 25% RECOVERY 0 - 17.26M

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH 261

SURVEY COORDINATES

NORTHING	254 799.82 m	AZIMUTH	N/A deg.
EASTING	111 799.98 m	INCLINATION	-90 deg.
ELEVATION	1130.41 m	LENGTH	N/A m

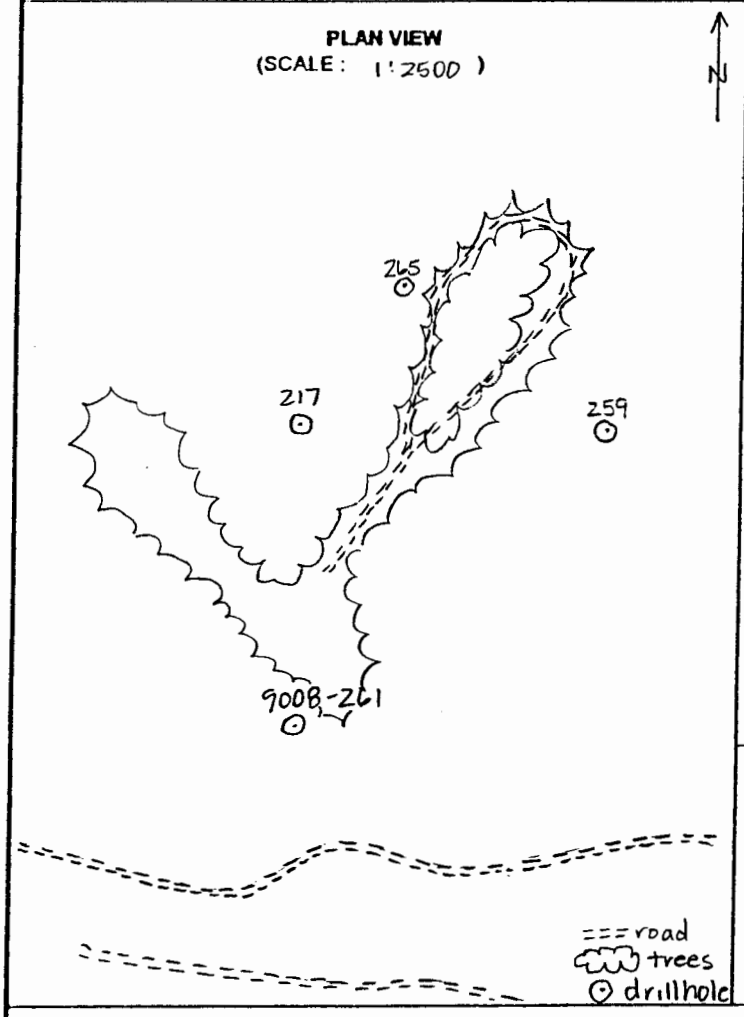
DIMENSIONS

AVERAGE DEPTH	14.94 m
AVERAGE WIDTH	N/A m

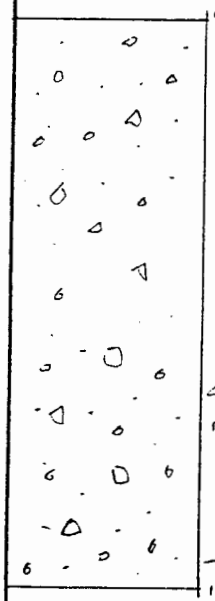
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
CORING OVER	$22/FT	49'	1078
DRILL COSTS	$44/HR	24 HRS	1056
TOTAL EXPENDITURES			$ 2134

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:200)



0.00m UNSORTED COLLUVIUM

GRAIN SIZES:

PEBBLES:
- FINE - 10%
- MED - 40%
- COARSE - 30%
- V. COARSE - 2%

SAND (DISAGGREGATED MONZONITE)
- V. COARSE - 5%
- COARSE - 10%
- MED - 3%

ROCK TYPES
- GRANODIORITE - 2%
- F.G. MONZONITE - 98%

— PYRITE VEINLETS IN F.G. MONZONITE

14.94m

SAMPLE NUMBERS:

SOIL	
PAN CONCENTRATE	
ROCK	

COMMENTS / DESCRIPTIONS: 8% RECOVERY FINES NOT RECOVERED

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: DH262

SURVEY COORDINATES

NORTHING	254 999.80 m	AZIMUTH	N/A deg.
EASTING	111 900.68 m	INCLINATION	-90° deg.
ELEVATION	1147.39 m	LENGTH	N/A m

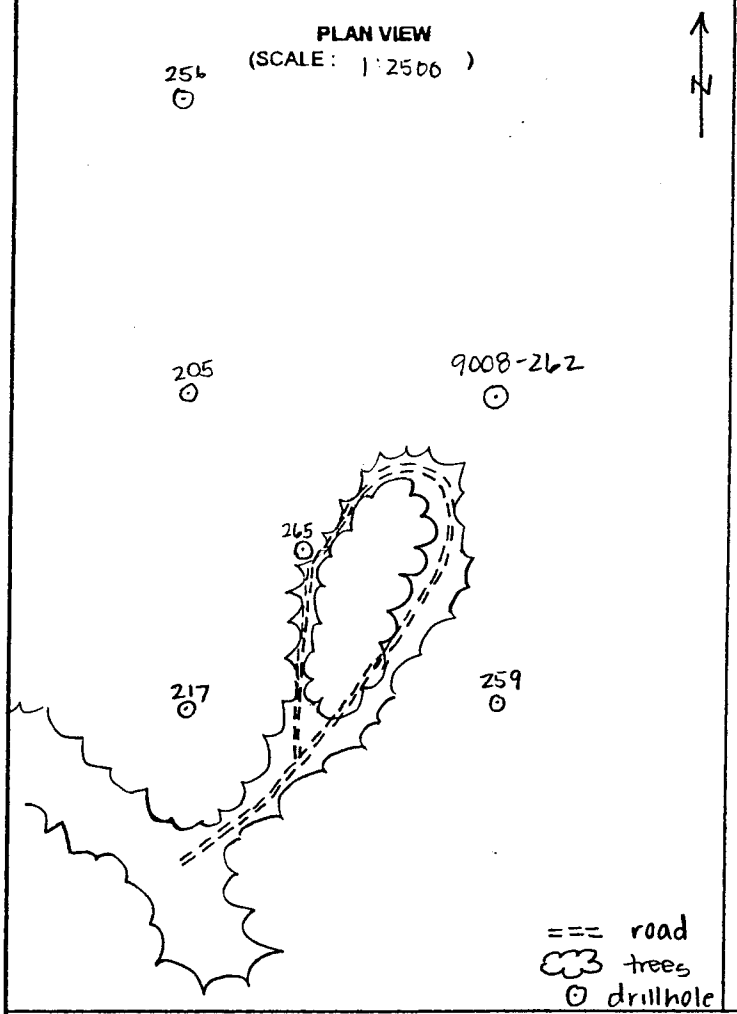
DIMENSIONS

AVERAGE DEPTH 8.23 m
AVERAGE WIDTH N/A m

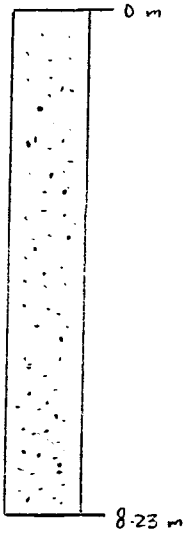
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE : 1:2500)



SOIL PROFILE
(SCALE : 1:125)



DISAGGREGATED ROCK IN SITU
Sand with some silt and some very fine pebbles
70% sand
25% fine pebbles
5% silt
- biotite grains have survived indicating little transport
Strong limonite stain
No noted sulphides or carbonate
RECOVERY = 2%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: DH 264

SURVEY COORDINATES

NORTHING	254 950.71 m	AZIMUTH	270 deg.
EASTING	111 699.13 m	INCLINATION	-45 deg.
ELEVATION	1155.58 m	LENGTH	N/A m

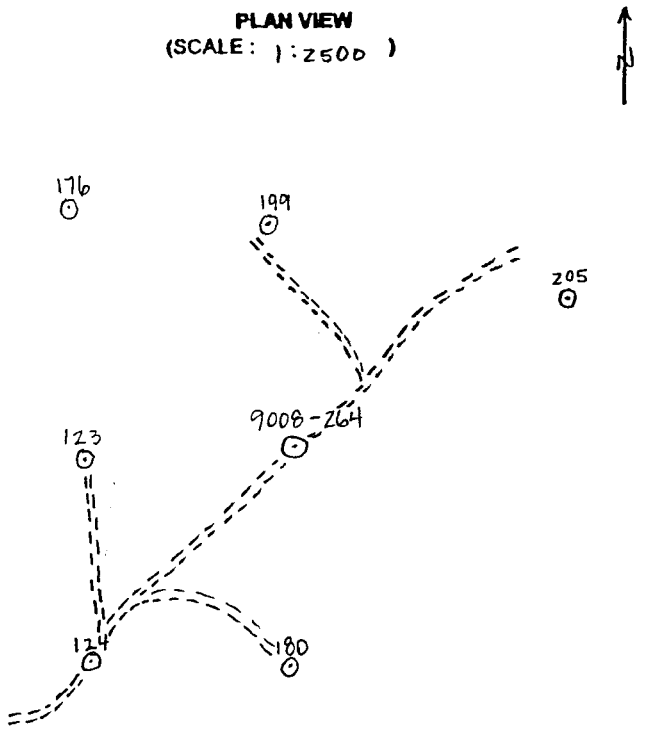
DIMENSIONS

AVERAGE DEPTH 23.44 m
AVERAGE WIDTH N/A m

EXPENDITURES

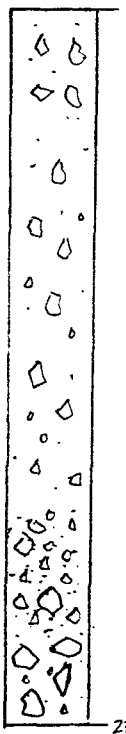
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



==== road
⊙ drillhole

SOIL PROFILE
(SCALE: 1:250)



UNSORTED COLLUVIAL SOIL:
Silty pebbles with some sand, some clay and some cobbles
35% pebbles
30% silt
20% cobbles
10% sand
5% clay
Poorly sorted
Strong limonite stain pervasive in silt, sand & clay.
Lithological types where possible to determine (in pebbles and cobbles):
60% milled microbreccia or possibly intrusion breccia
40% granodiorite
Tourmaline in occasional breccia pebble
Magnetite in occasional granodiorite pebble/cobble.
No py, cp, carb noted
RECOVERY = 21%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: DH265

SURVEY COORDINATES

NORTHING	254944.01 m	AZIMUTH	270 deg.
EASTING	111828.33 m	INCLINATION	-45 deg.
ELEVATION	1145.05 m	LENGTH	N/A m

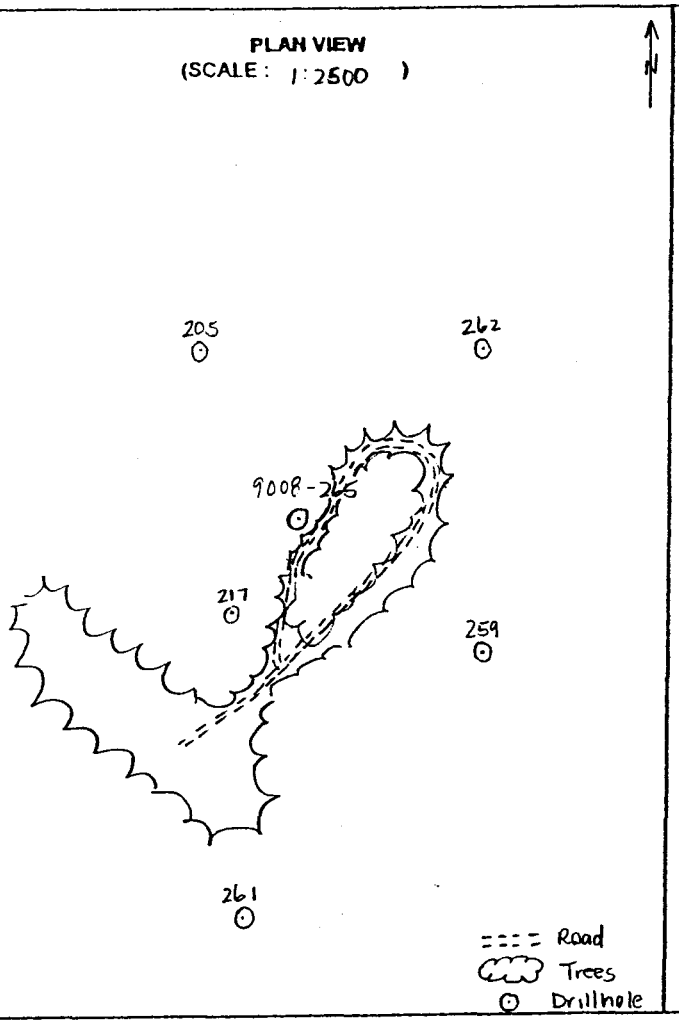
DIMENSIONS

AVERAGE DEPTH 22.25 m
AVERAGE WIDTH N/A m

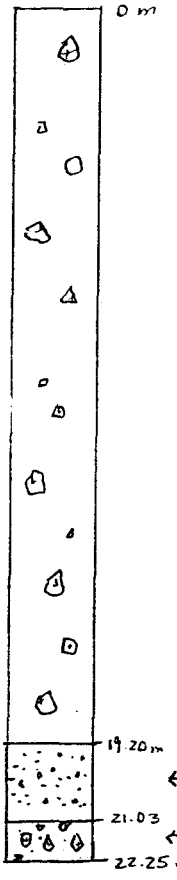
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:200)



COLLUVIUM: Fine to very coarse pebbles with ≤5% sands and ≤5% cobbles.

Lithology types are:
60% qtz monzonite or intrusion breccia
30% granodiorite
<10% possible milled microbreccia
<5% diorite.

Weak limonite stain
0.2% carbonate
Trace tourmaline
No sulphides noted.
RECOVERY = 7 %

ALLUVIUM: clayey silt with 20% sand and 15% fine pebbles
Strong limonite stain throughout
No carbonate or sulphides
RECOVERY = 55 %

COLLUVIUM: Pebbles with 5% sand, 5% silt. Pebbles are 80% diorite
Moderate limonite stain
0.1% carbonate; no sulphides noted
RECOVERY = 45 %

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: DH 266

SURVEY COORDINATES

NORTHING	254870.55 m	AZIMUTH	270° deg.
EASTING	111 698.51 m	INCLINATION	-47.5° deg.
ELEVATION	1145.50 m	LENGTH	N/A m

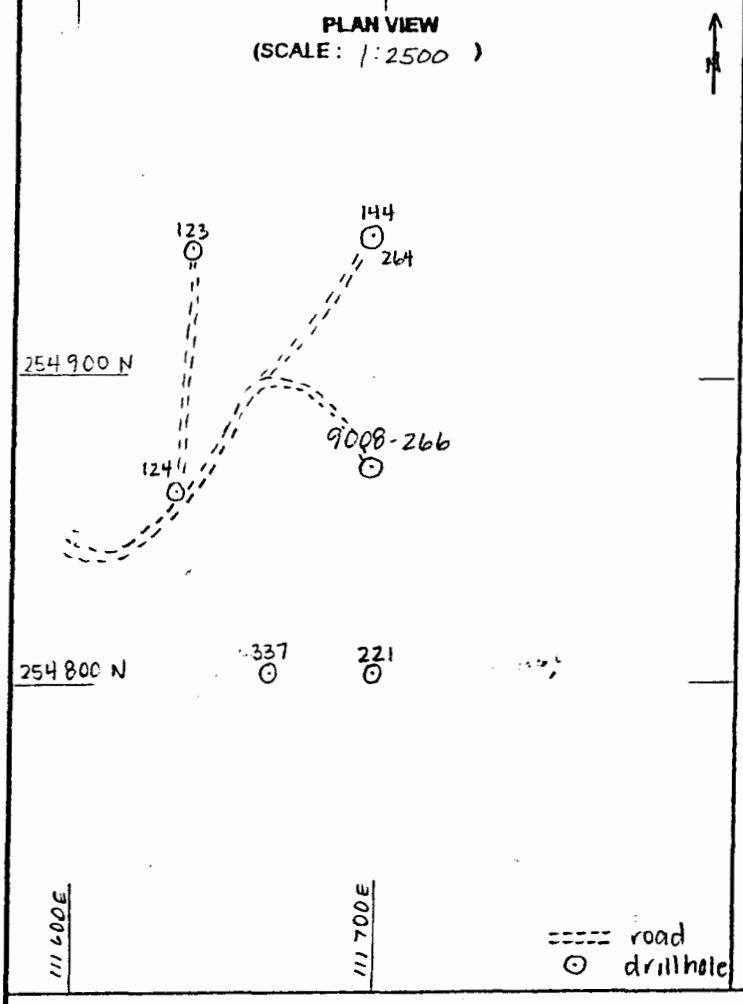
DIMENSIONS

AVERAGE DEPTH	15.54 m
AVERAGE WIDTH	N/A m

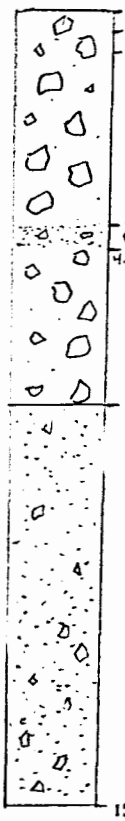
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:150)



COLLUVIUM: Pebbles with some coarse sand (10%) and some small cobbles (15%)
Recognizable lithologies are:
45% qtz monzonite (and/or milled microbreccia)
40% granodiorite
15% Patton porphyry
Trace magnetite in a few pebble
" pyrite " " cobb
≤0.1% carbonate
RECOVERY = 22%

ALLUVIUM: Clayey silt and sand with trace (5%) pebbles to 11.70m and some (20%) pebbles from 11.70 to 15.54m
- where lithologies are recognizable in pebbles: 70% diorite
30% patton porphyry
Strong limonite stain
Trace magnetite in pebbles
No noted py, cp, cc.
RECOVERY = 36%

SAMPLE NUMBERS:

SOIL	
PAN CONCENTRATE	
ROCK	

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH 267

SURVEY COORDINATES

NORTHING	254 790.87 m	AZIMUTH	315° deg.
EASTING	111 460.50 m	INCLINATION	-47.5° deg.
ELEVATION	1207.31 m	LENGTH	N/A m

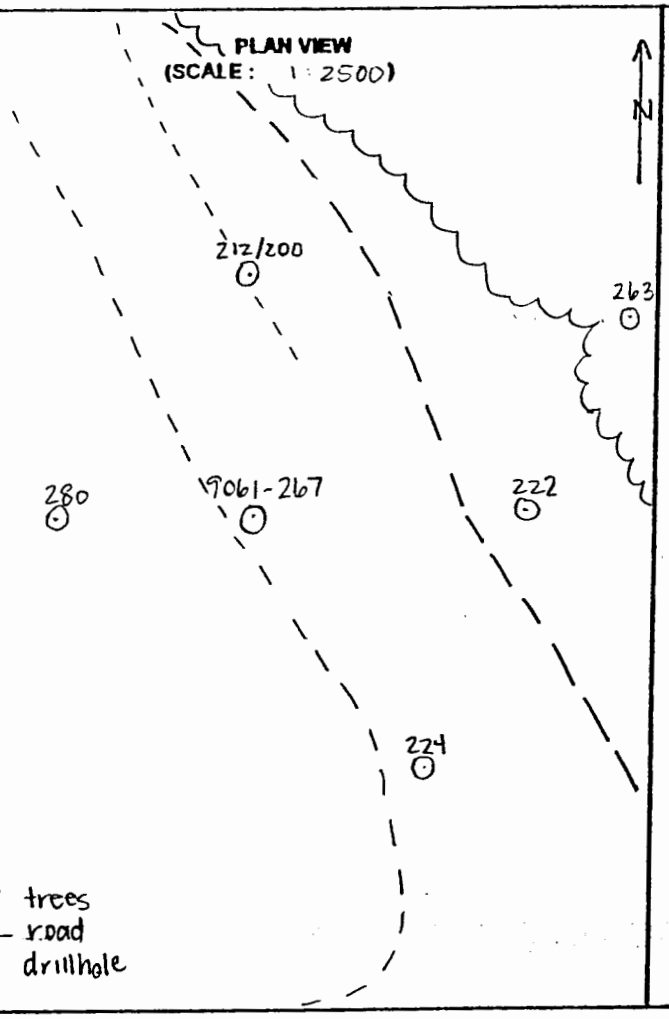
DIMENSIONS

AVERAGE DEPTH 3.35 m
AVERAGE WIDTH N/A m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



trees
road
drillhole

SOIL PROFILE
(SCALE: 1:50)



No core recovery

COLLUVIUM: Very fine to very coarse pebbles with 30% large cobbles and no fines.

LITHOLOGY = Dawson Range granodiorite
Weak to moderate jarosite & limonite stain.
No sulphides noted
0.3% Carbonate
Recovery = 23%.

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: DH268

SURVEY COORDINATES

NORTHING	254 980.03 m	AZIMUTH	315° deg.
EASTING	111 278.37 m	INCLINATION	-47.5° deg.
ELEVATION	1232.50 m	LENGTH	N/A m

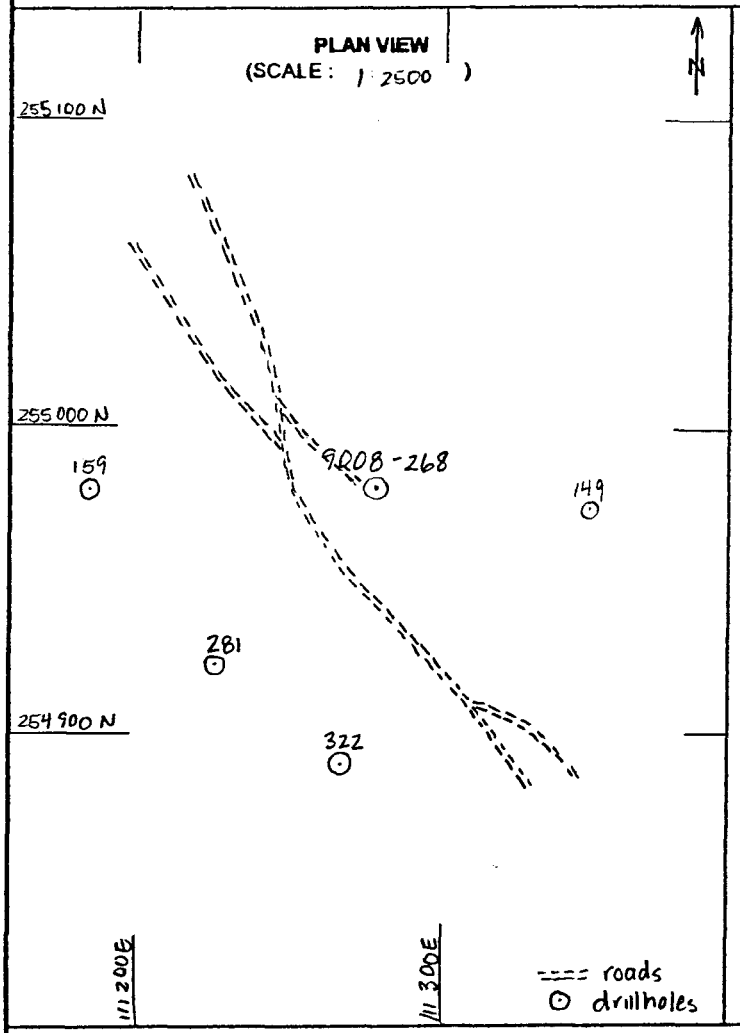
DIMENSIONS

AVERAGE DEPTH	10.67 m
AVERAGE WIDTH	N/A m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:125)



No core recovery from 0 to 7.92 m

7.92

COLLUVIUM: Pebbles with some coarse sand. Recognizable lithologies are milled microbreccia (MBNX) and trace small pebbles of Patton porphyry, diorite +/- qtz. monzonite weak to moderate limonite stain

10.67 m Recovery = 8%

≤ 0.1% carbonate
no noted magnetite, pyrite or chalcopyrite

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH 269

SURVEY COORDINATES

NORTHING	255 044.20 m	AZIMUTH	270° deg.
EASTING	111 568.80 m	INCLINATION	-50° deg.
ELEVATION	1174.98 m	LENGTH	N/A m

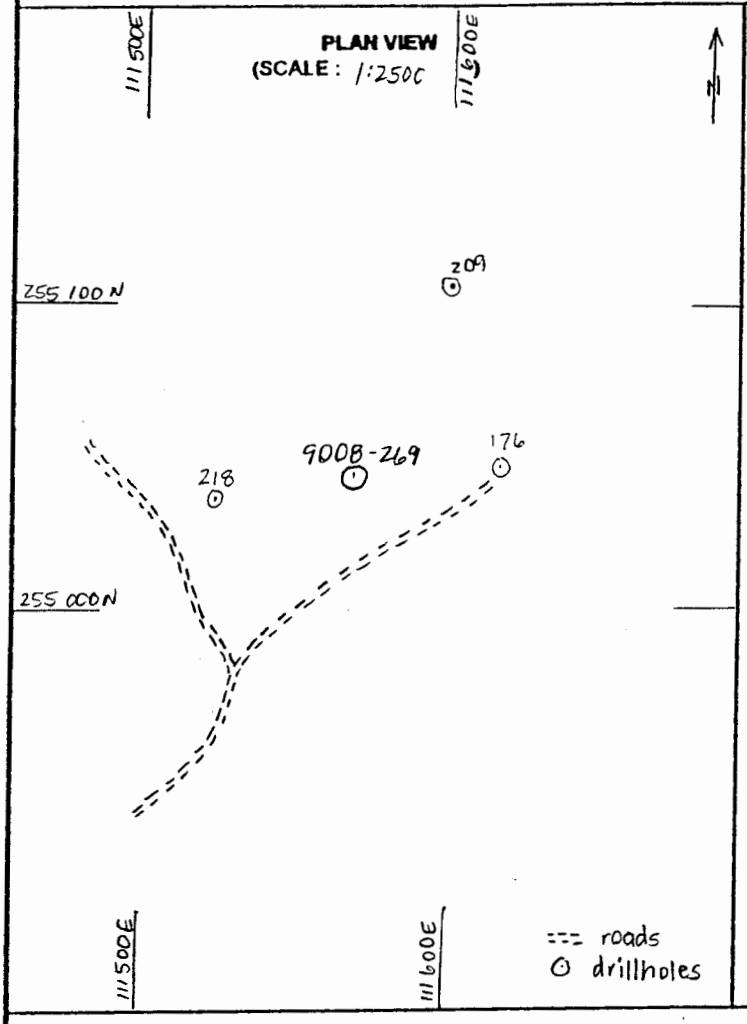
DIMENSIONS

AVERAGE DEPTH 18.00m
AVERAGE WIDTH N/A m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:250C)



SOIL PROFILE
(SCALE: 1:200)



0.00 m
COLLUVIUM:
Pebbly sand with some silt and trace cobbles.
60% pebbles of granodiorite > qtz-monzonite > diorite.
40% sands with some silt.
Recovery is 15% so likely much of the sand, silt and clay was washed away.
Moderate limonite stain pervasive throughout sands and silt and along fractures in pebbles, cobbles.
Trace pyrite, magnetite, tourmaline in occasional pebbles

10.21 m 0.1% carbonate
COLLUVIUM:
Sandy pebbles with some boulders
80% granodiorite often weathered and friable w/ strong limonite stain to sand size
No pyrite, chalcopy, magnetite or carb. noted
Strong limonite, weak goethite on fres

COLLUVIUM:
Pebbles with some sand.
50% qtz. monz. and/or intrusion bx.
10% patton porphyry
30% granodiorite
Weathering, mineralization as above

18.00 m

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9008
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: DH 274

SURVEY COORDINATES

NORTHING	255 053.39 m	AZIMUTH	329°52' deg.
EASTING	111 177.06 m	INCLINATION	-48°50' deg.
ELEVATION	1252.13 m	LENGTH	N/A m

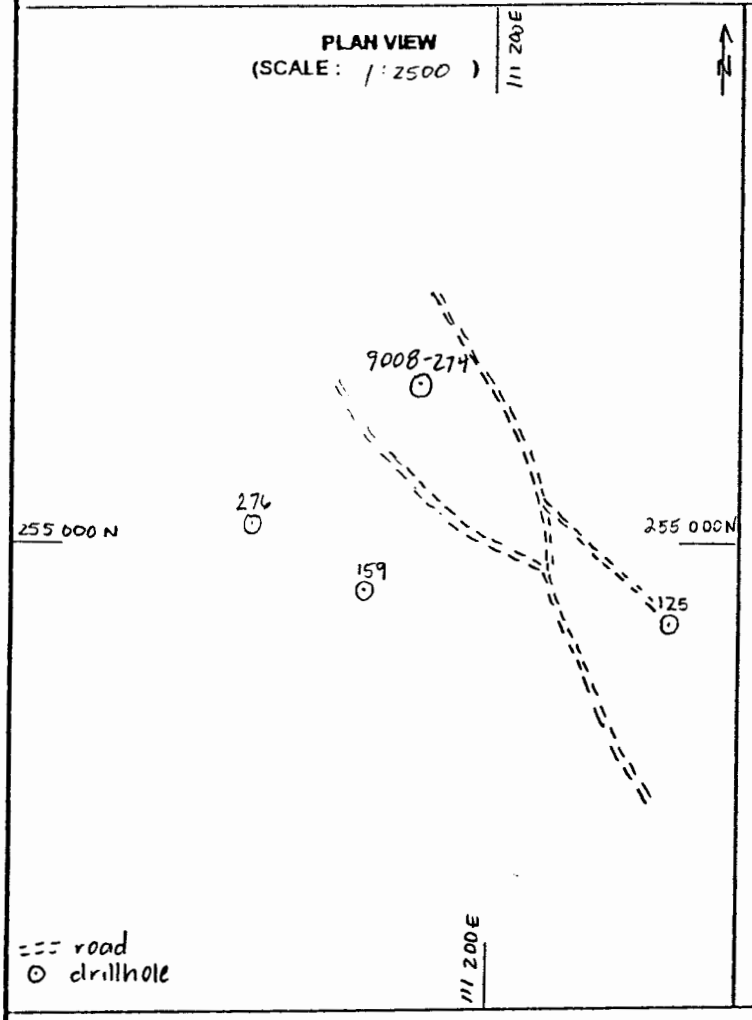
DIMENSIONS

AVERAGE DEPTH 3.05 m
AVERAGE WIDTH N/A m

EXPENDITURES

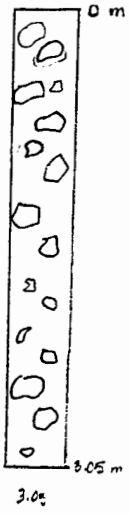
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



::: road
⊙ drillhole

SOIL PROFILE
(SCALE: 1:50)



Alluvium:
Pebbles of 1-4 cm (medium to very coarse size of pebbles)
No fines present.
Lithologies: fine to medium grained qtz-monzonite is >95% of cobbles
<5% Patton porphyry. (PPDP)
Recovery is 15% → possibly the fines were washed out
Weak to moderate limonite stain
No carbonate, magnetite noted.
<0.1% pyrite +/- chalcopyrite

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: CANADIAN
TYPE: BENCH

PIT IDENTIFICATION NUMBER: DH-273

SURVEY COORDINATES

NORTHING	254850.11 m	AZIMUTH	N/A deg.
EASTING	111059.75 m	INCLINATION	-90 deg.
ELEVATION	1350.84 m	LENGTH	N/A m

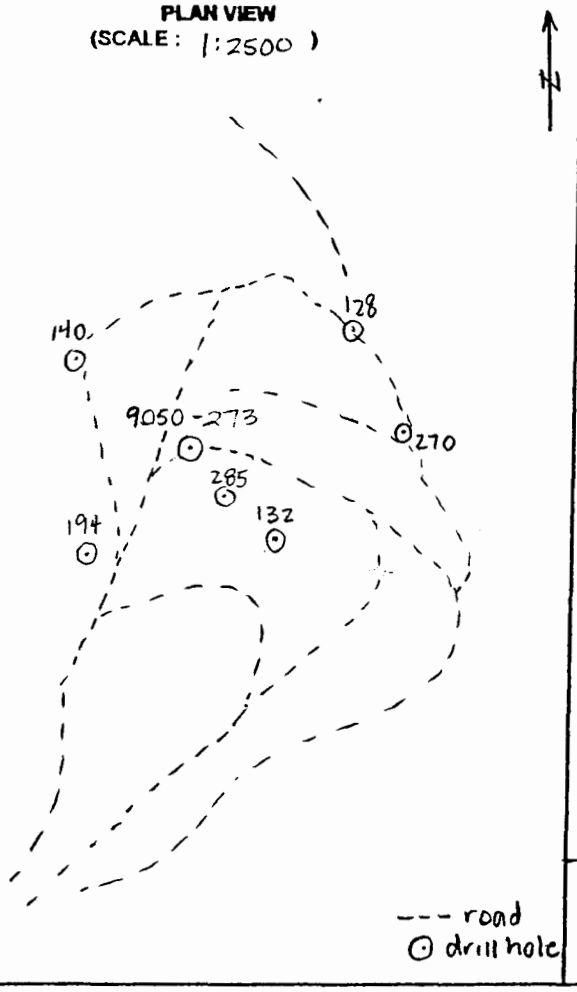
DIMENSIONS

AVERAGE DEPTH 3.05 m
AVERAGE WIDTH N/A m

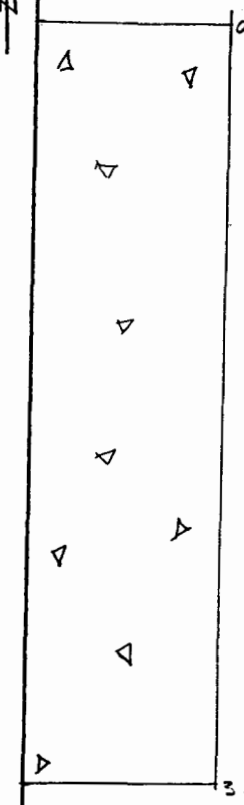
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:30)



UNSORTED COLLUVIUM

GRAIN SIZE DISTRIBUTION:
PEBBLES - V. COARSE - 5%
100% COARSE - 30%
MED - 60%
FINE - 5%
V. FINE -

ROCK TYPE DISTRIBUTION:
MILLED BRECCIA - 95%
F.G. MONZONITE - 5%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: 13% RECOVERY NO FINES

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH-277

SURVEY COORDINATES

NORTHING	254856.70 m	AZIMUTH	308°25' deg.
EASTING	111140.48 m	INCLINATION	-43°24' deg.
ELEVATION	1338.20 m	LENGTH	N/A m

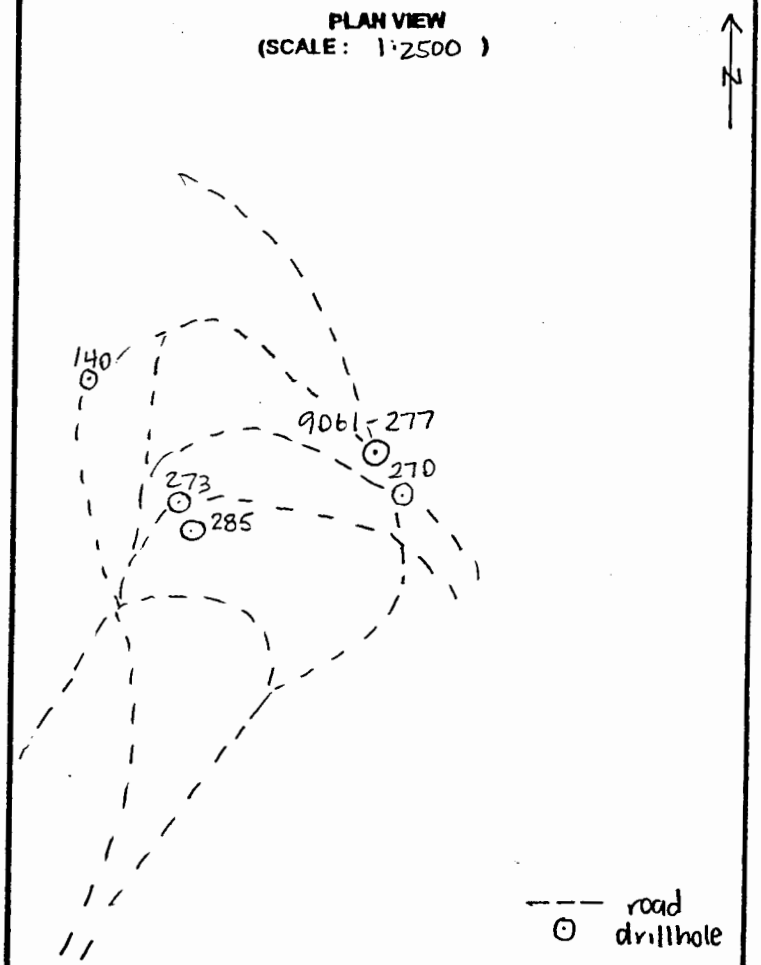
DIMENSIONS

AVERAGE DEPTH 1.83 m
AVERAGE WIDTH N/A m

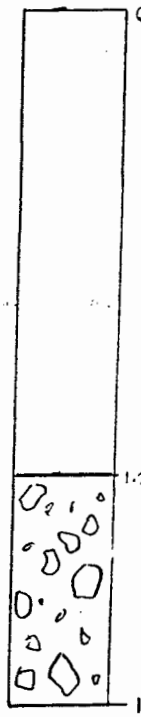
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:20)



No core recovery

Alluvium: Fine to coarse pebbles
Lithology = Milled microbreccia
Moderate pervasive limonite
0.5% hematite
No cp, py, mt noted.
0.1% carbonate
Recovery = 33 %

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH 278

SURVEY COORDINATES

NORTHING	254918.06 m	AZIMUTH	N/A deg.
EASTING	110986.21 m	INCLINATION	-90 deg.
ELEVATION	1321.34 m	LENGTH	N/A m

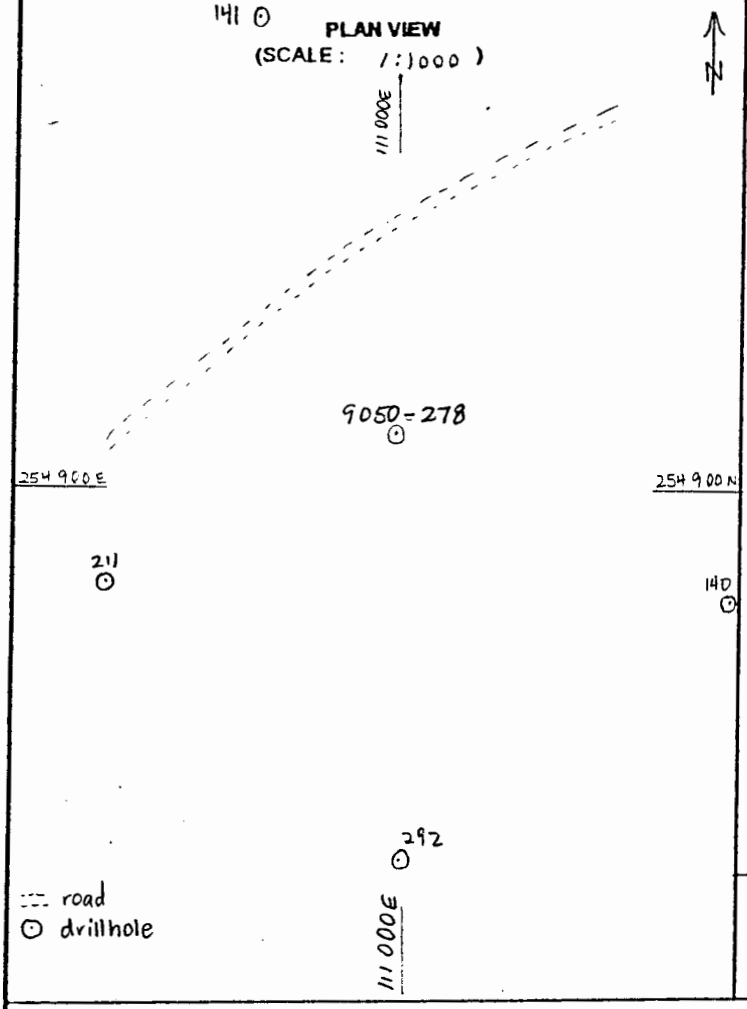
DIMENSIONS

AVERAGE DEPTH 3.05 m
AVERAGE WIDTH N/A m

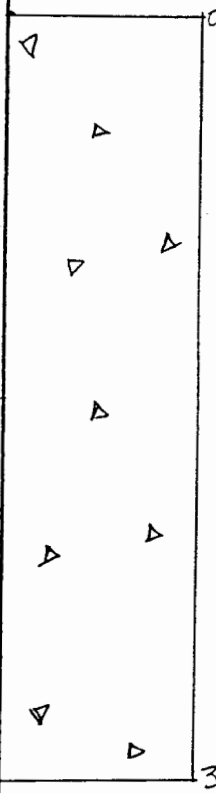
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



SOIL PROFILE
(SCALE: 1:30)



UNSORTED COLLUVIUM

PEBBLES - V. COARSE - Ø
COARSE - 15%
MED - 70%
FINE - 10%
V. FINE - 5%

ROCK TYPES:

MILLED GRANODIORITE.

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: 12% RECOVERY NO FINES

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH-282

SURVEY COORDINATES

NORTHING	254963.66 m	AZIMUTH	312°43' deg.
EASTING	110945.67 m	INCLINATION	-46°32' deg.
ELEVATION	1305.35 m	LENGTH	N/A m

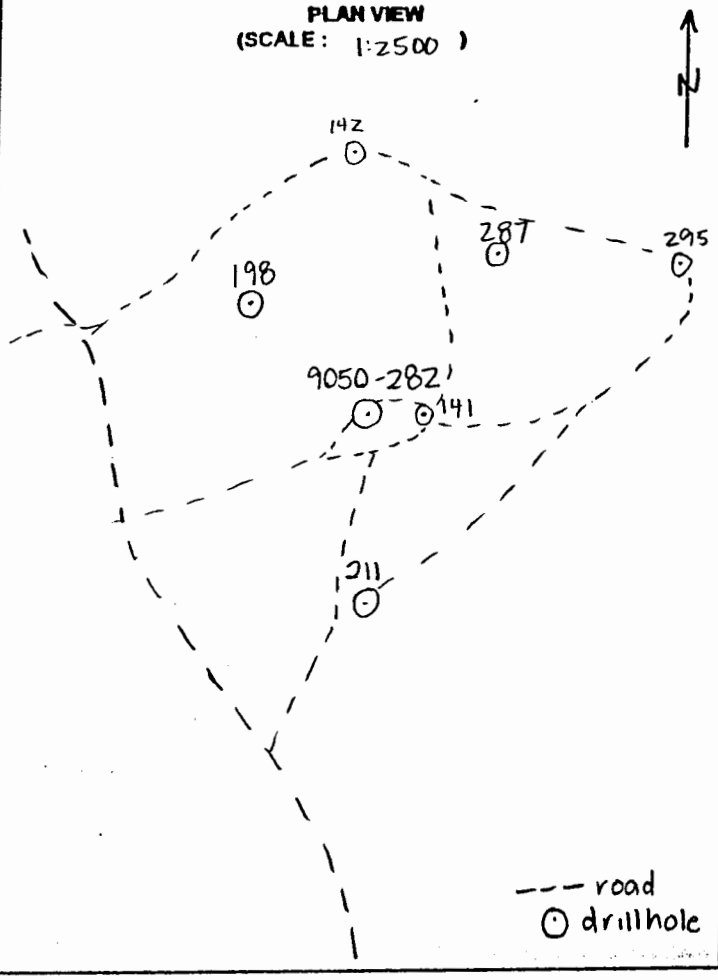
DIMENSIONS

AVERAGE DEPTH 5.49 m
AVERAGE WIDTH N/A m

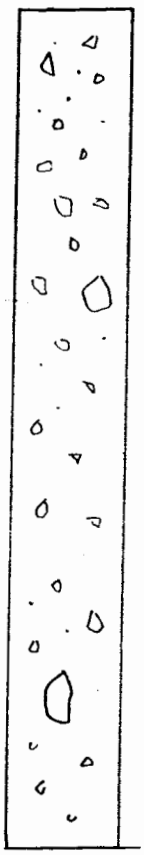
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM: Very fine to very coarse pebbles with 20% small cobbles and 5% coarse sands
Lithology is milled microbreccia with ~~fatton~~ porphyry fragments
3% magnetite +/- hematite
Moderate limenite
0.4% carbonate
No cp, py noted
Recovery = 13%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH283

SURVEY COORDINATES

NORTHING	254680.24 m	AZIMUTH	N/A deg.
EASTING	110974.68 m	INCLINATION	-90° deg.
ELEVATION	1350.29 m	LENGTH	N/A m

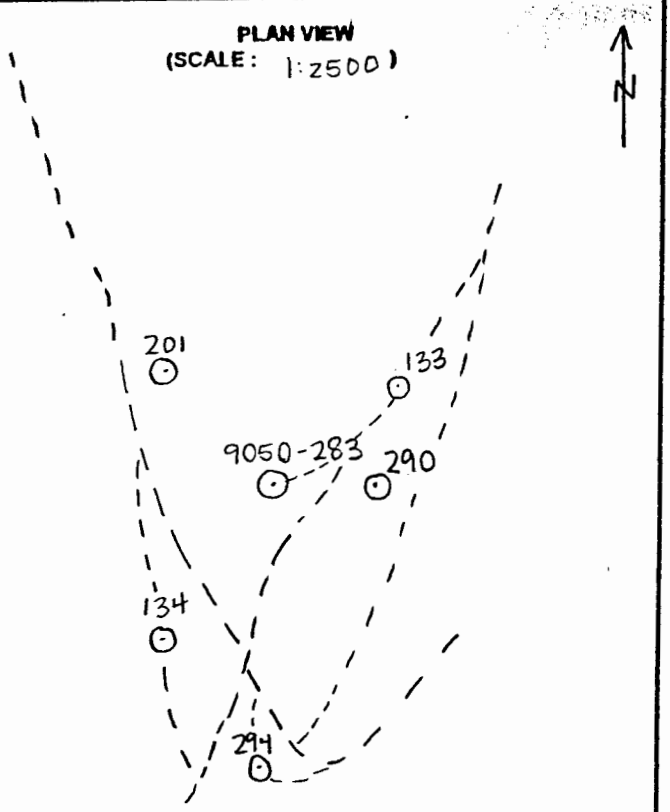
DIMENSIONS

AVERAGE DEPTH 3.35 m
AVERAGE WIDTH N/A m

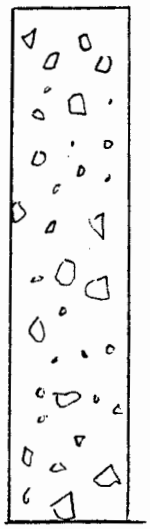
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM: very fine to very coarse pebbles (0.2 to 6 cm) with no fines.
LITHOLOGIES: Milled Microbreccia and Granodiorite (possibly frgs?)
Moderate limonite and goethite
0.3% carbonate
Trace tourmaline disseminations
No sulphides noted
Recovery = 20%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH-284

SURVEY COORDINATES

NORTHING	255 106.49 m	AZIMUTH	314° 16' deg.
EASTING	111 044 42 m	INCLINATION	-45° 35' deg.
ELEVATION	1255.09 m	LENGTH	N/A m

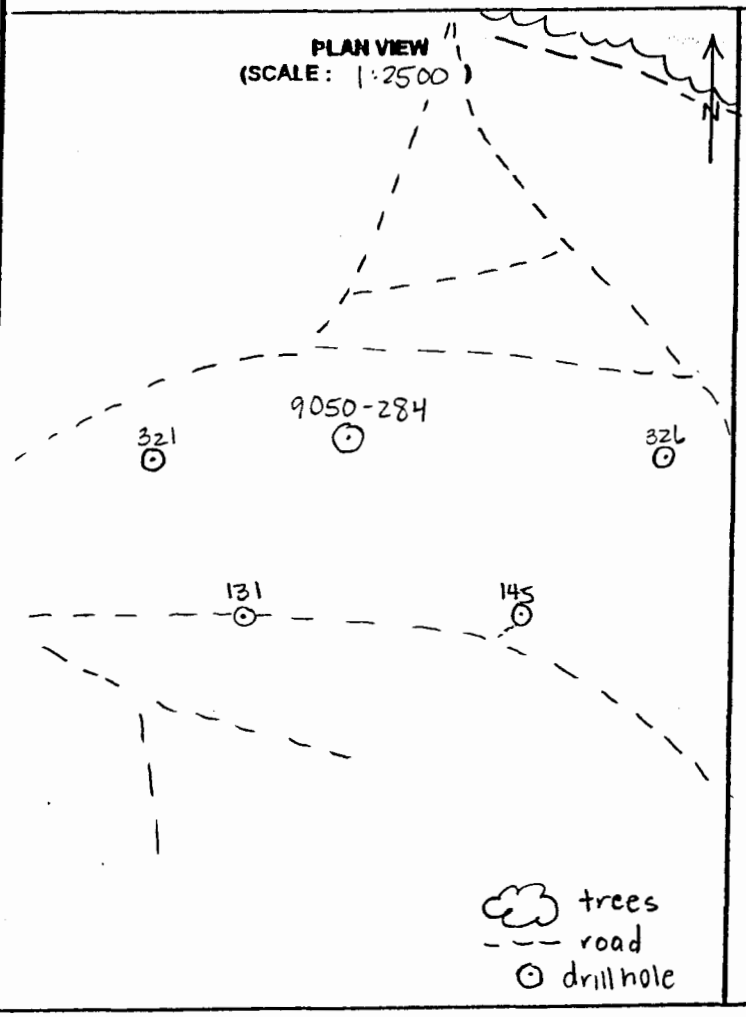
DIMENSIONS

AVERAGE DEPTH 6.40 m
AVERAGE WIDTH N/A m

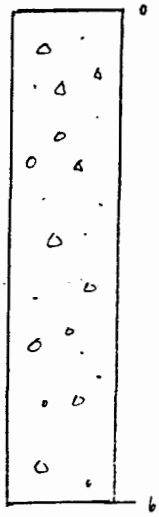
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:100)



COLLUVIUM: Very fine to very coarse pebbles (0.2 to 6 cm) with trace (5%) sand)

Lithologies noted: 60% milled microbreccia, 40% Granodiorite

Moderate pervasive limonite.

0.2% magnetite +/- hematite

No cp, py, carb noted.

RECOVERY - 9%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH287

SURVEY COORDINATES

NORTHING	255 009.59 m	AZIMUTH	N/A deg.
EASTING	110 985.13 m	INCLINATION	-90° deg.
ELEVATION	1296.29 m	LENGTH	N/A m

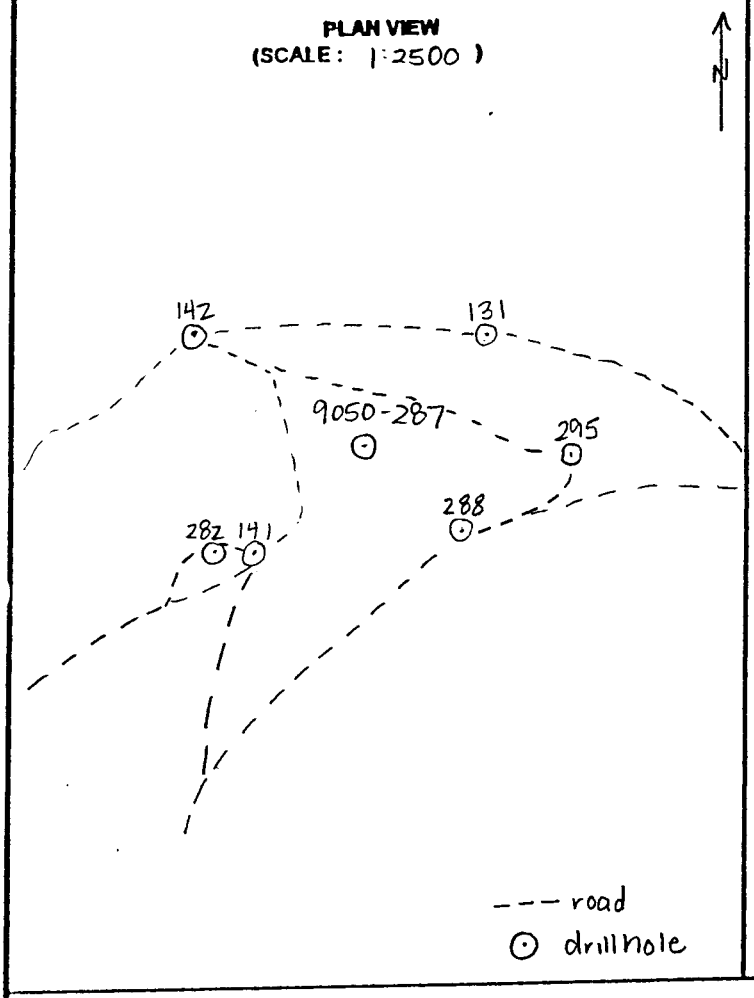
DIMENSIONS

AVERAGE DEPTH 4.57 m
AVERAGE WIDTH N/A m

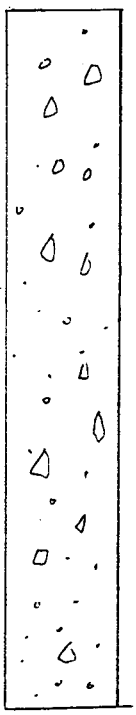
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



Colluvium: Fine to coarse pebbles with 20% sand and 5% silt.
Lithologies are varied including. Milled microbreccia, quartz monzonite and granodiorite +/- hematite
Up to 5% magnetite in some pebbles
No cp, py, carbonate noted
Moderate pervasive limonite
RECOVERY = 13%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH 296

SURVEY COORDINATES

NORTHING	254 764.80 m	AZIMUTH	N/A deg.
EASTING	110 980 02 m	INCLINATION	-90 deg.
ELEVATION	1340.73 m	LENGTH	N/A m

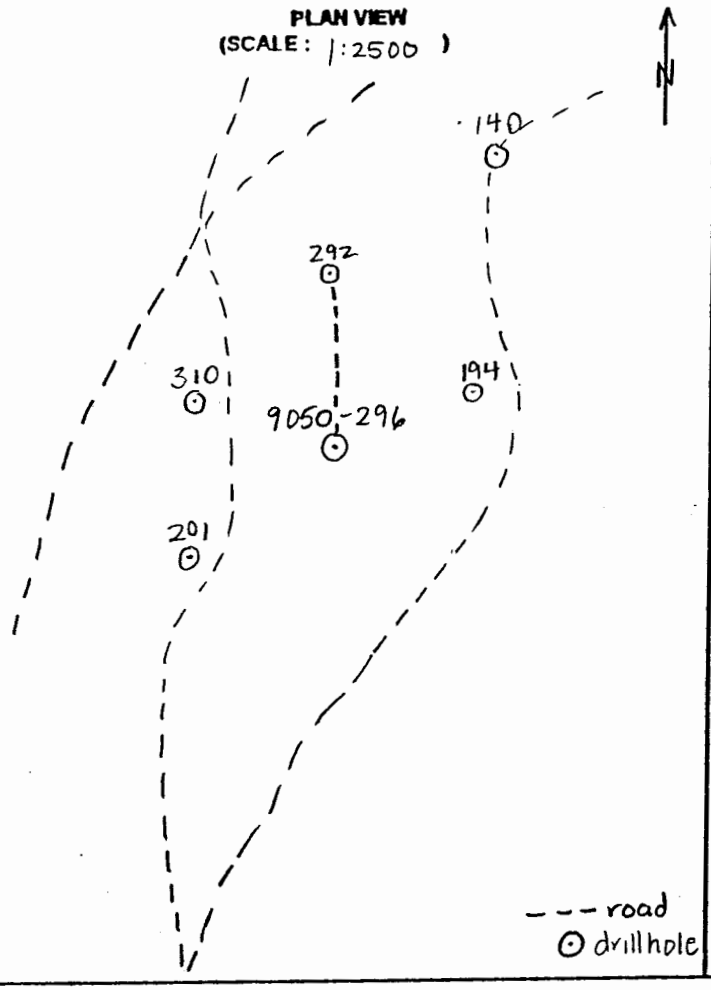
DIMENSIONS

AVERAGE DEPTH 2.74 m
AVERAGE WIDTH N/A m

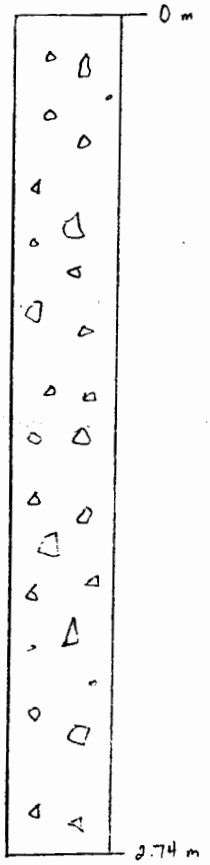
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:25)



COLLUVIUM: Medium to very coarse pebbles with no fines.
Lithology: Milled microbreccia
Moderate to strong pervasive limonite
Strong magnetite +/- hematite (~5%) in some pebbles.
Trace tourmaline noted
No pyrite noted.
≤0.1% carbonate
RECOVERY - 15%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9060
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH-297

SURVEY COORDINATES

NORTHING	254 580.09 m	AZIMUTH	N/A deg.
EASTING	111 050.12 m	INCLINATION	-90 deg.
ELEVATION	1366.80 m	LENGTH	N/A m

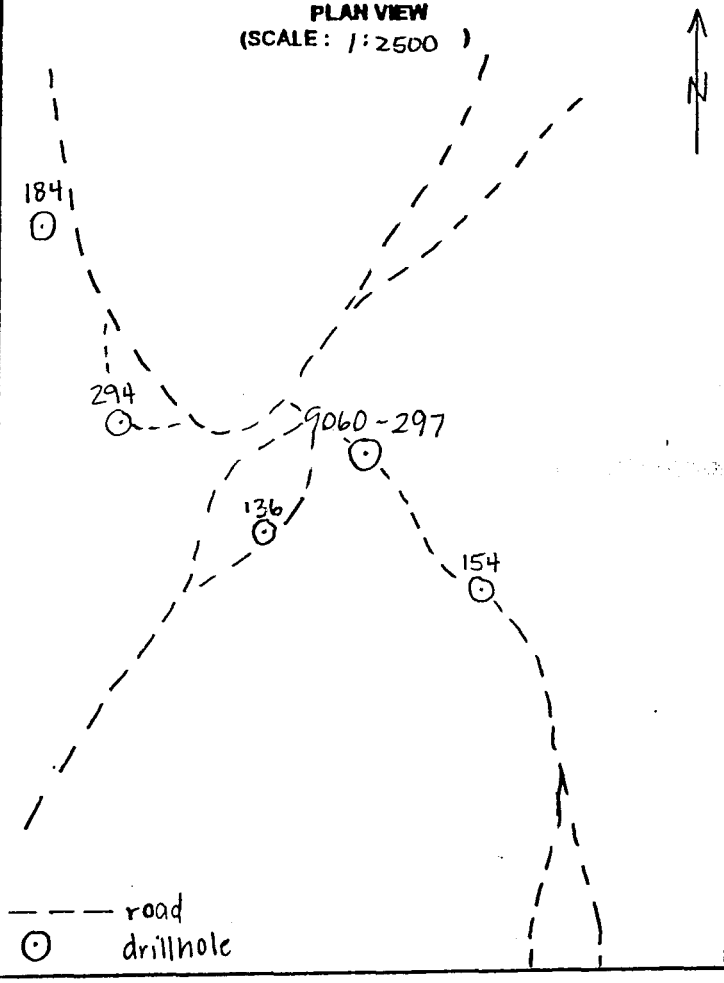
DIMENSIONS

AVERAGE DEPTH 2.44 m
AVERAGE WIDTH N/A m

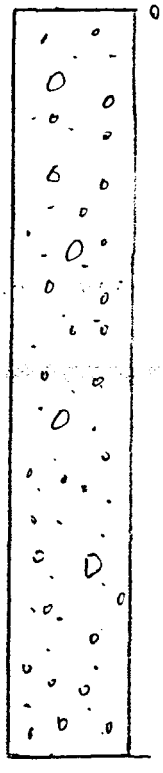
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:25)



COLLUVIUM:
60% very fine to medium pebble
30% sand
10% coarse pebbles
Lithology = Dawson Range granodiorite.
Trace hematite
N/o py, cp, cb, mt noted
Moderate pervasive jarosite > limonite
Recovery = 15%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH-301

SURVEY COORDINATES

NORTHING	254739.96 m	AZIMUTH	313°56' deg.
EASTING	111160.86 m	INCLINATION	-42°13' deg.
ELEVATION	1348.10 m	LENGTH	N/A m

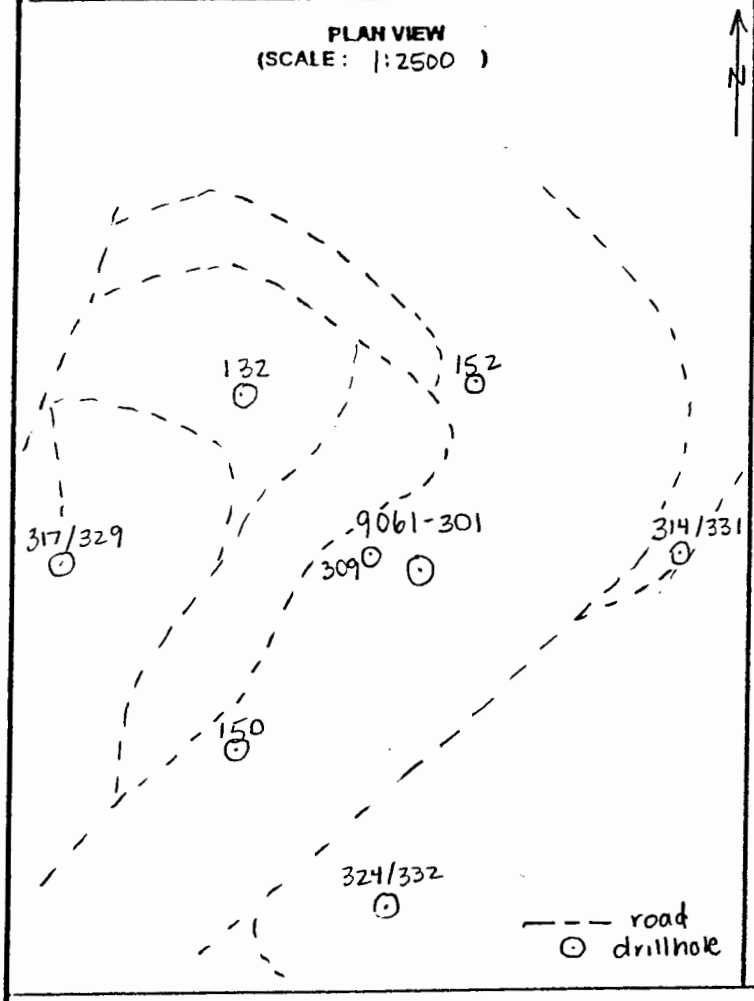
DIMENSIONS

AVERAGE DEPTH 3.35 m
AVERAGE WIDTH N/A m

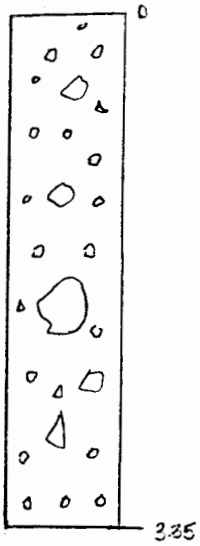
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM: Fine to coarse pebbles with 15% small cobbles 15% fine

LITHOLOGY: Milled Microbreccia
Strong pervasive jarosite >> limonite
0.5% tourmaline disseminations
No py/cp/mt, etc noted.
Recovery = 20%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH 302

SURVEY COORDINATES

NORTHING	254923.76 m	AZIMUTH	N/A deg.
EASTING	111062.70 m	INCLINATION	-90 deg.
ELEVATION	1333.61 m	LENGTH	N/A m

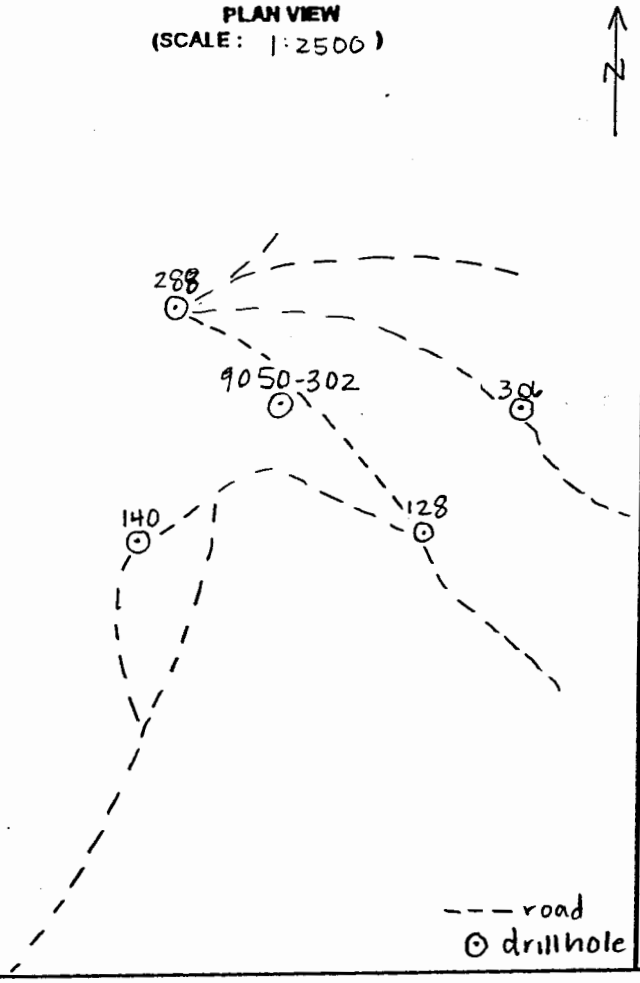
DIMENSIONS

AVERAGE DEPTH 3.35 m
AVERAGE WIDTH N/A m

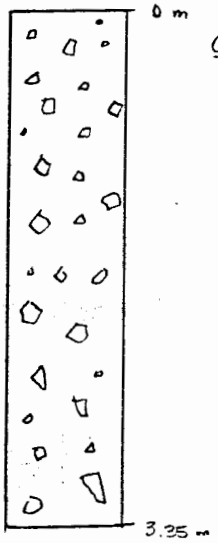
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM: Very fine to very coarse (1.5 to 50 mm) pebbles.
Lithology: Milled Microbreccia
Moderate to strong pervasive limonite
Trace tourmaline disseminations
0.2 % carbonate
No sulphides noted.
RECOVERY = 23%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9053
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: DH304

SURVEY COORDINATES

NORTHING	254406.36 m	AZIMUTH	N/A deg.
EASTING	110193.99 m	INCLINATION	-90 deg.
ELEVATION	1324.81 m	LENGTH	N/A m

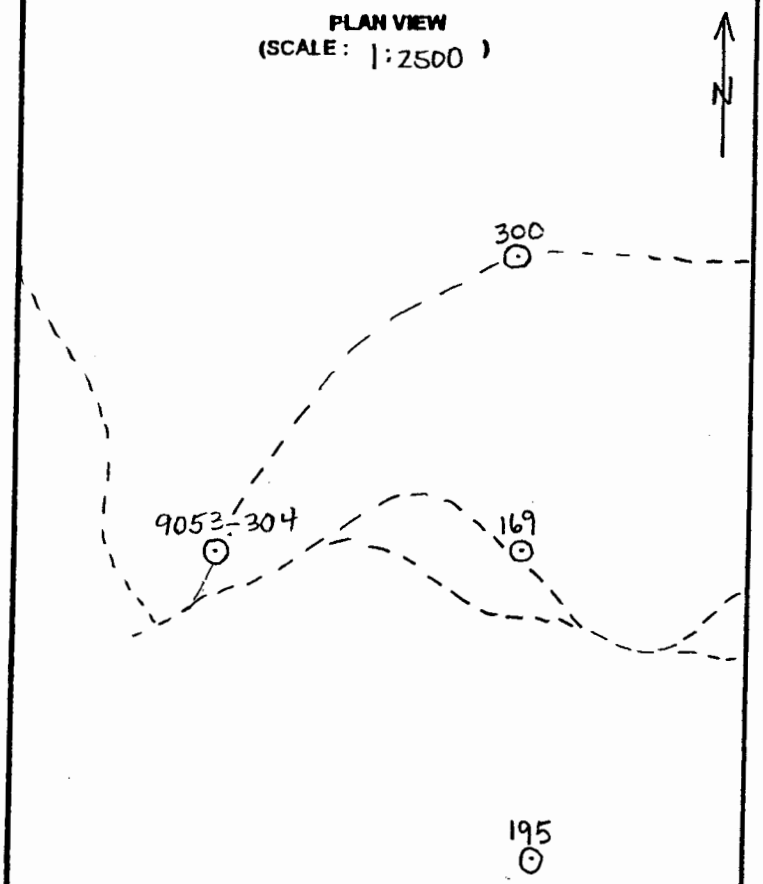
DIMENSIONS

AVERAGE DEPTH 7.32 m
AVERAGE WIDTH N/A m

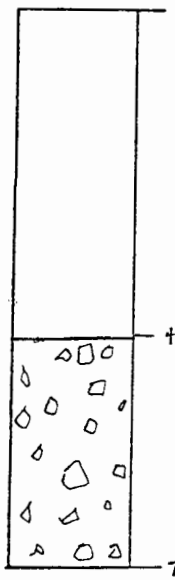
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:100)



No core recovery

COLLUVIUM: Fine to coarse pebbles of
Milled microbreccia (no fines)
Weak tourmaline dissemination
Strong jarosite > limonite
No sulphides or carbonate noted
RECOVERY = 10%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH306

SURVEY COORDINATES

NORTHING	254 926.09 m	AZIMUTH	N/A deg.
EASTING	111 139.74 m	INCLINATION	-90 deg.
ELEVATION	1313.21 m	LENGTH	N/A m

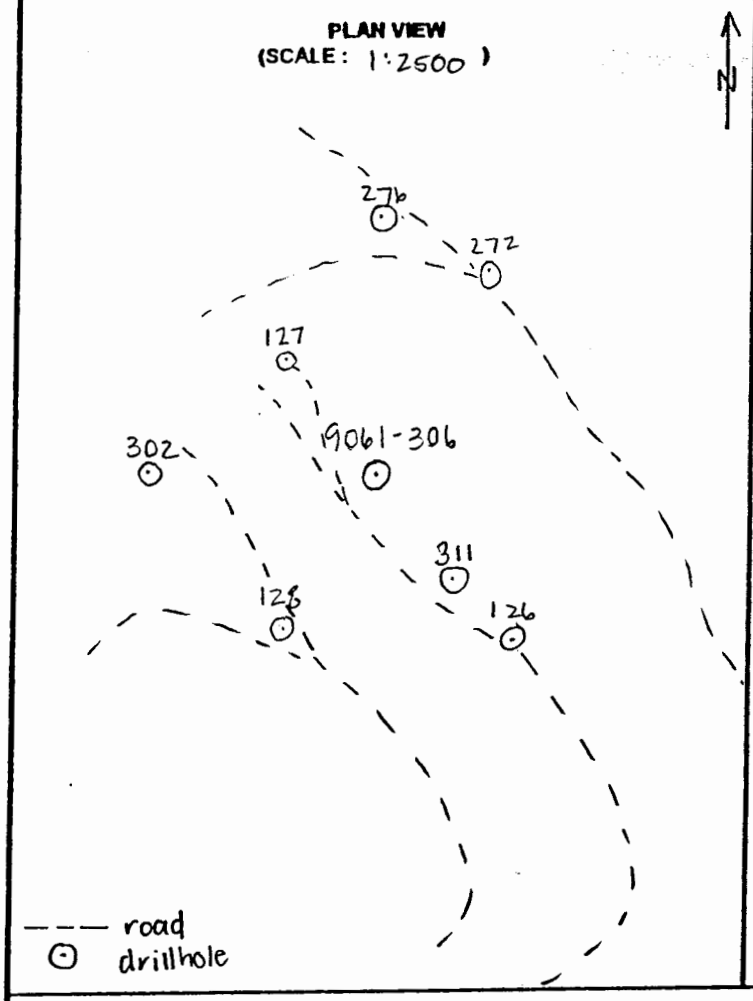
DIMENSIONS

AVERAGE DEPTH	4.27 m
AVERAGE WIDTH	N/A m

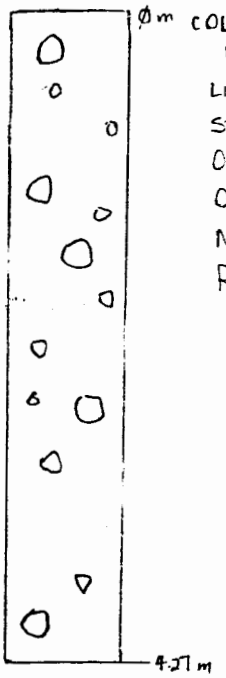
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



0m COLLUVIUM: Fine to very coarse pebble with no fines.
Lithology: Milled microbreccia.
strong pervasive limonite
0.5% hematite +/- magnetite.
0.1% carbonate
No py, cp noted
Recovery = 5%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9060
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH303

SURVEY COORDINATES

NORTHING	254597.61 m	AZIMUTH	316° 30' deg.
EASTING	111197.94 m	INCLINATION	-43° 29' deg.
ELEVATION	1296.26 m	LENGTH	N/A m

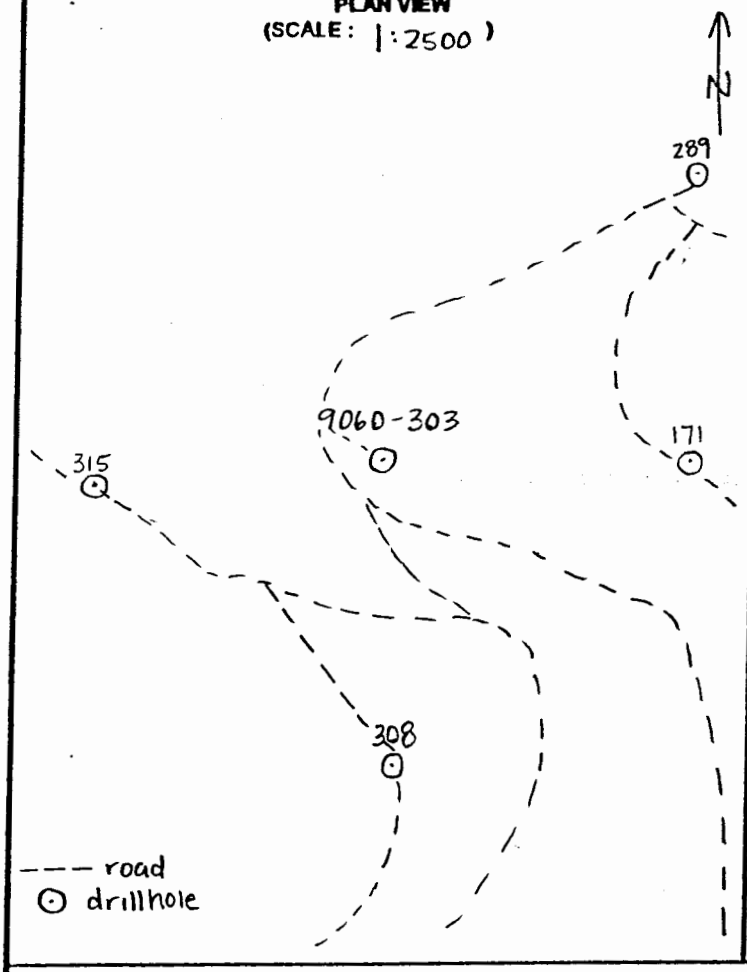
DIMENSIONS

AVERAGE DEPTH 4.27 m
AVERAGE WIDTH N/A m

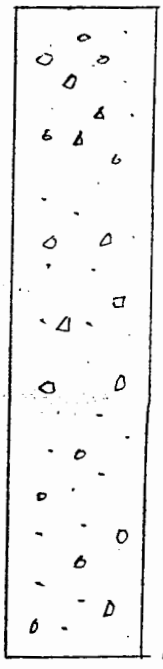
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM:
60% very fine to medium pebbles.
30% medium to coarse pebbles
10% coarse sands
Lithology = Dawson Range granodiorite.
Strong pervasive jarosite > limonite
No py, cp, mt, cb noted
Recovery = 15%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9060
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH-308

SURVEY COORDINATES

NORTHING	254 500.20 m	AZIMUTH	315° 00' deg.
EASTING	111 200.13 m	INCLINATION	-39° 04' deg.
ELEVATION	1330.57 m	LENGTH	N/A m

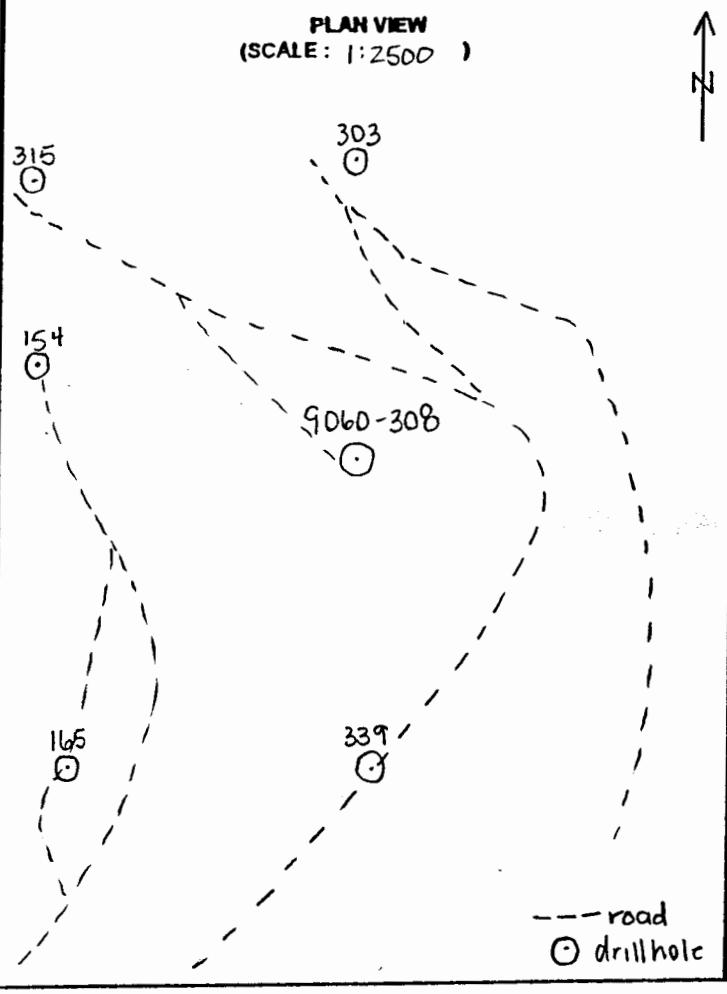
DIMENSIONS

AVERAGE DEPTH 3.05 m
AVERAGE WIDTH N/A m

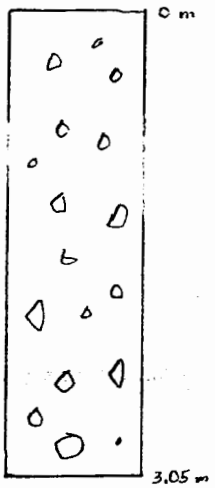
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM: Fine to coarse [illegible] with 5% sands
[illegible] Jenson Range
[illegible]
Moderate jarosite > limonite
0.2% carbonate
No gypsum noted → boxwork txs of altered cubic cubes.
Recovery = 10%.

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH311

SURVEY COORDINATES

NORTHING	254905.52 m	AZIMUTH	316° 10' deg.
EASTING	111158.65 m	INCLINATION	-45° 17' deg.
ELEVATION	1312.29 m	LENGTH	N/A m

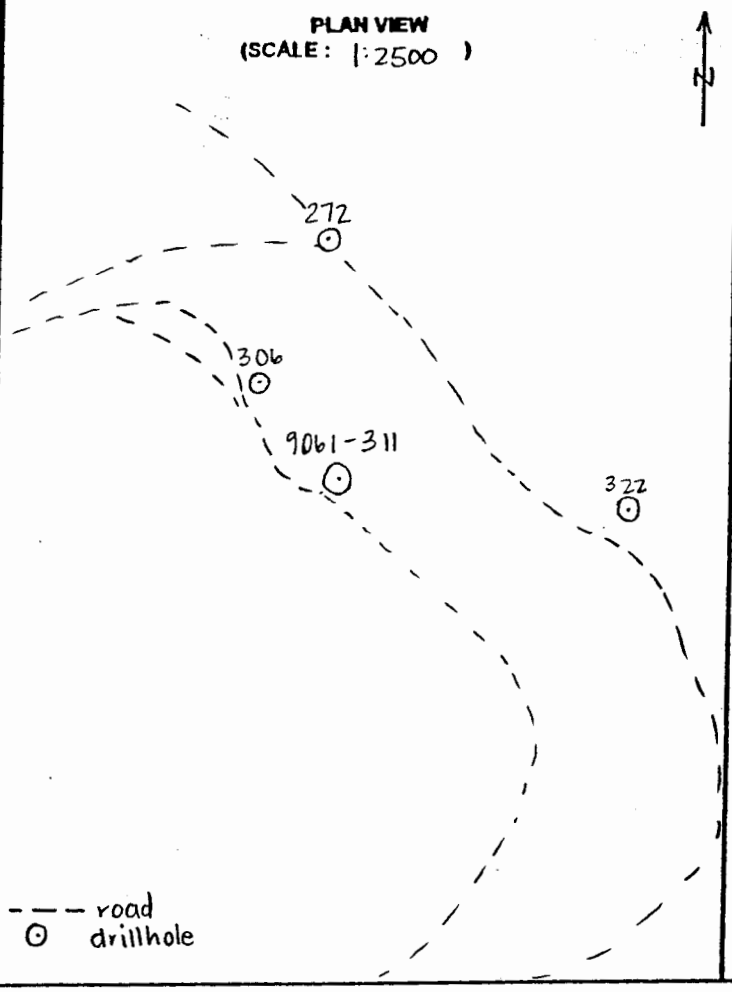
DIMENSIONS

AVERAGE DEPTH 4.57 m
AVERAGE WIDTH N/A m

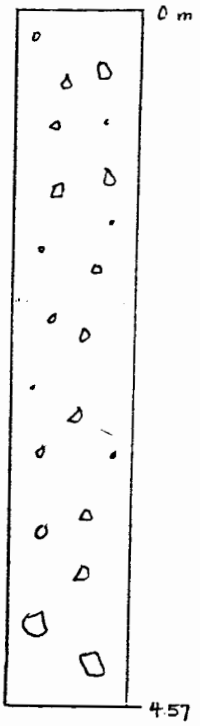
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM: Very fine to coarse pebbl
Lithology - difficult to discern. likely
milled microbreccia. ~ 80%
20% Fatlon porphyry.
Intense pervasive limonite.
Trace tourmaline disseminations
0.4% carbonate
No py, cp, mt noted
Recovery = 10%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9050
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH 312

SURVEY COORDINATES

NORTHING	254600.10 m	AZIMUTH	N/A deg.
EASTING	110 699.73 m	INCLINATION	-90° deg.
ELEVATION	1308.31 m	LENGTH	N/A m

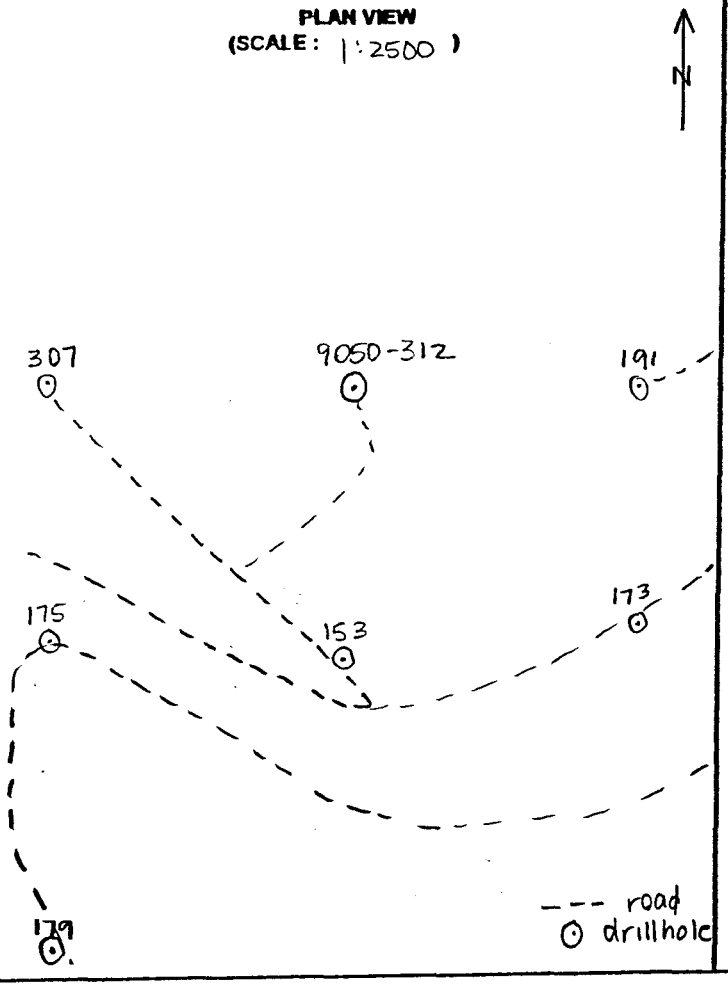
DIMENSIONS

AVERAGE DEPTH 7.32 m
AVERAGE WIDTH N/A m

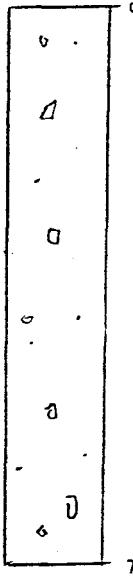
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE : 1:2500)



SOIL PROFILE
(SCALE : 1:100)



COLLUVIUM:
Fine to coarse pebbles with trace (10%) coarse sand.
Lithologies of pebbles: Granodiorite with possible milled breccia.
Moderate tourmaline dissemination in pebbles (2%)
No sulphides noted
≤ 0.1% carbonate
Moderate jarosite > limonite pervasive stain.
RECOVERY = 2%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9060
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH315

SURVEY COORDINATES

NORTHING	254 595.21 m	AZIMUTH	313°58' deg.
EASTING	111 104.68 m	INCLINATION	-43°34' deg.
ELEVATION	1345.90 m	LENGTH	N/A m

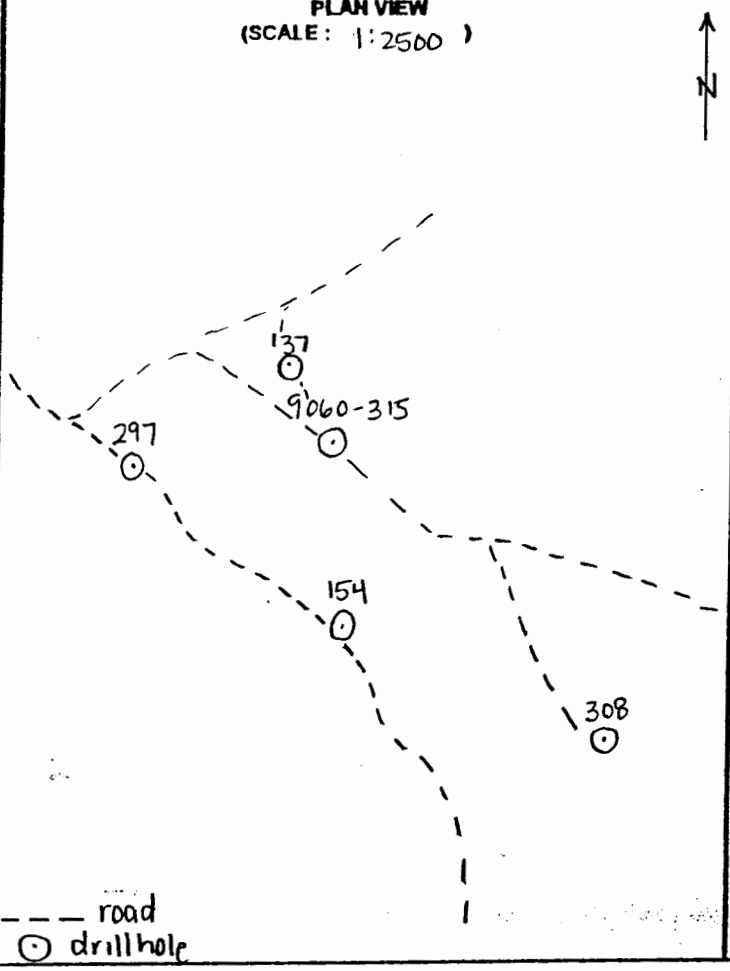
DIMENSIONS

AVERAGE DEPTH 1.43 m
AVERAGE WIDTH N/A m

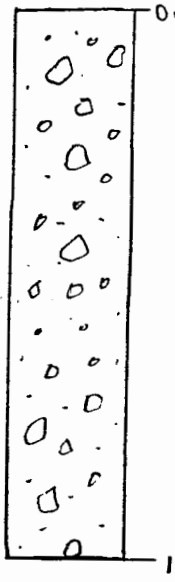
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:20)



COLLUVIUM: Very fine to coarse pebbles with ≤10% sand.

Lithology = 80% Milled Microbreccia
20% Granodiorite

Strong pervasive jarosite > limonite
Weak tourmaline
<0.1% carbonate
No cp, py, mt noted
Recovery = 20%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH316

SURVEY COORDINATES

NORTHING	254 834.82 m	AZIMUTH	N/A deg.
EASTING	111 223.09 m	INCLINATION	-90° deg.
ELEVATION	1318.39 m	LENGTH	N/A m

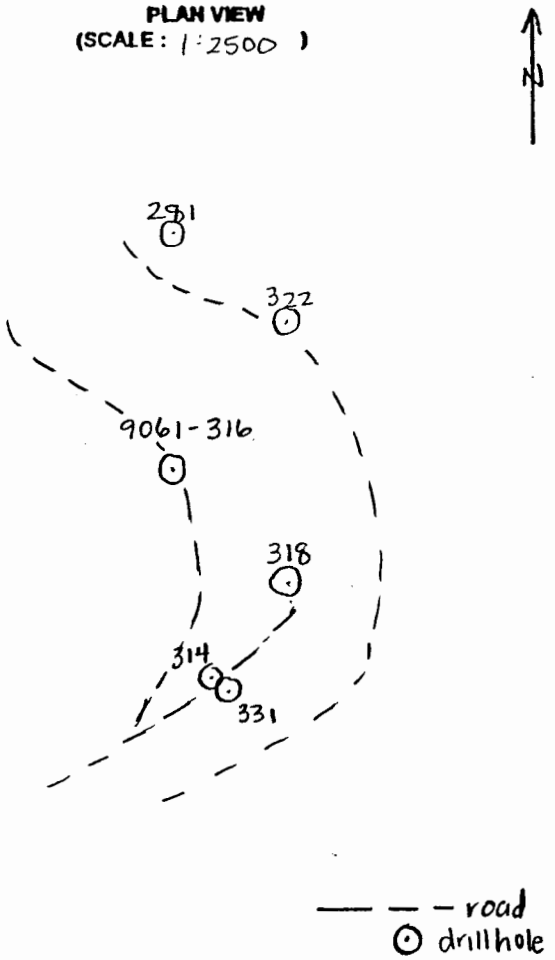
DIMENSIONS

AVERAGE DEPTH 2.44 m
AVERAGE WIDTH N/A m

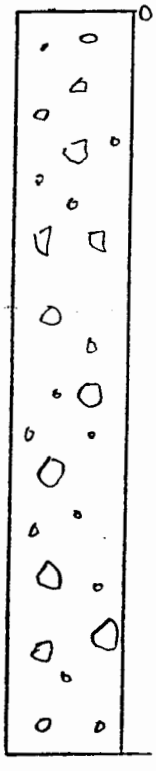
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:25)



Colluvium: Fine to coarse pebbles
Lithology = Milled microbreccia
Moderate to strong pervasive limonite
No py, cp, mt noted
≤0.1% carbonate
Recovery = 16%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH-322

SURVEY COORDINATES

NORTHING	254 889.57 m	AZIMUTH	313° 58' deg.
EASTING	111 259.03 m	INCLINATION	-47° 12' deg.
ELEVATION	1279.69 m	LENGTH	N/A m

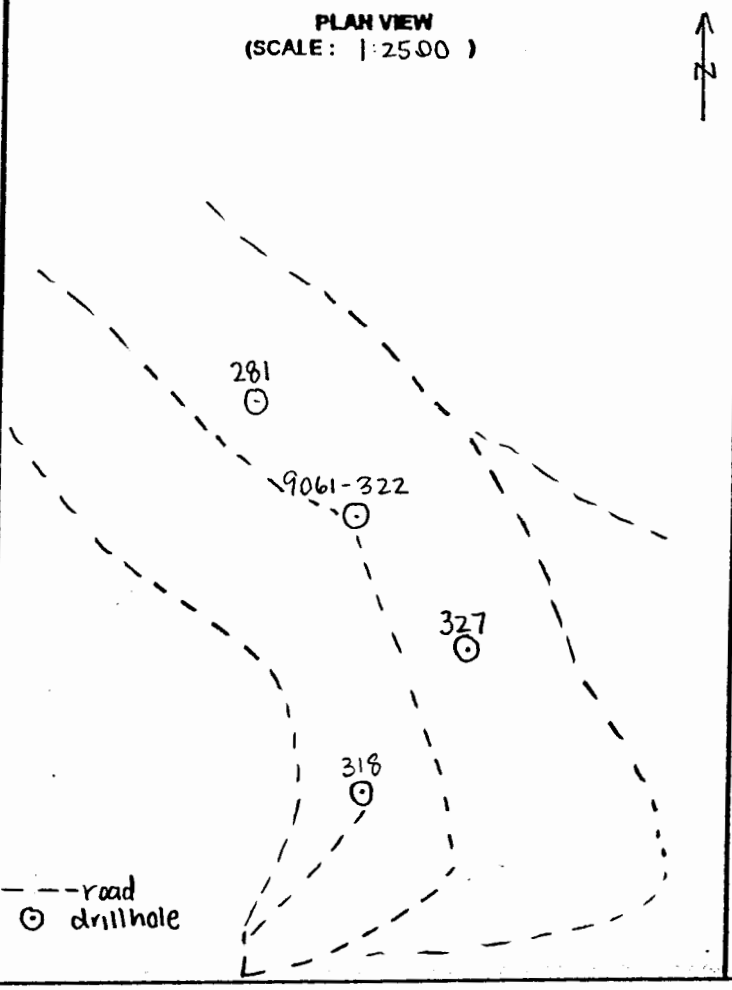
DIMENSIONS

AVERAGE DEPTH 5.18 m
AVERAGE WIDTH N/A m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:50)



COLLUVIUM:
80% Medium to very coarse pebbl
20% small and large cobbles.
Lithology: Milled microbreccia
Weak to moderate pervasive jarosil
+/- limonite.
0.2% carbonate
No cp, py, mt noted.
Recovery = 45%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9061
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH332

SURVEY COORDINATES

NORTHING	254 658.81 m	AZIMUTH	N/A deg.
EASTING	111 143.76 m	INCLINATION	-90° deg.
ELEVATION	1323.68 m	LENGTH	N/A m

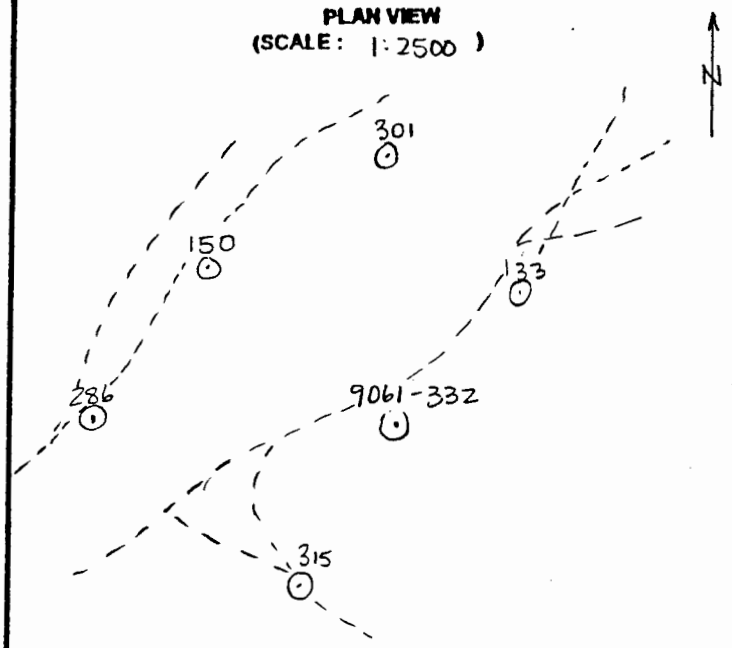
DIMENSIONS

AVERAGE DEPTH 2.13 m
AVERAGE WIDTH N/A m

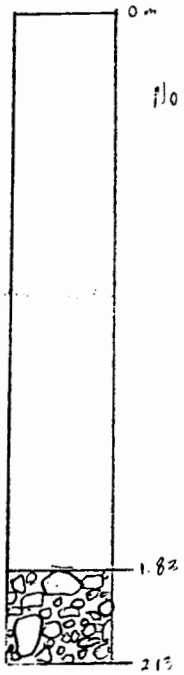
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:25)



No core recovery

Colluvium: Pebbles and small cobbles
No fine fraction
Lithologies: Heterolithic breccia (pass milled) with granodiorite frgs and milled frgs.
Moderate jarosite > limonite
Weak tourmaline disseminations
No sulphides noted
<0.1% carbonate
Recovery = 100%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

OVERBURDEN DRILL LOG
CASINO PROPERTY - PLACER PROGRAM

LEASE NO.: 9062
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: DH333

SURVEY COORDINATES

NORTHING	254 350.45 m	AZIMUTH	N/A deg.
EASTING	110 999.77 m	INCLINATION	-90 deg.
ELEVATION	1383.36 m	LENGTH	N/A m

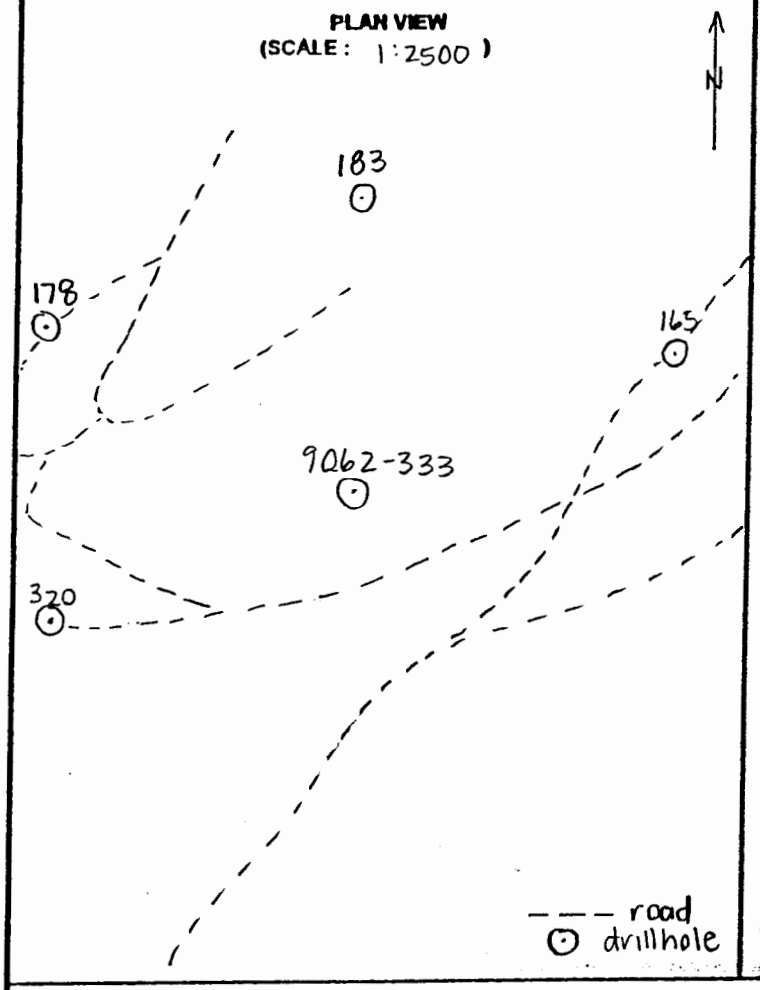
DIMENSIONS

AVERAGE DEPTH 2.74 m
AVERAGE WIDTH N/A m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:2500)



SOIL PROFILE
(SCALE: 1:25)



COLLUVIUM: Very fine to coarse pebbles.
Lithology = 60% Dawson Range granodiorite 40% Milled microbreccia.
Weak frc-controlled limonite
Weak tourmaline disseminations
No py, cp, cb noted
Recovery = 20%

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

DATE	JUNE 20/94
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 334	Page	1
Geologist	L. BROMMELAND	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
7.33	8.23	927296							
8.23	9.75	97							
9.75	11.28	98							
11.28	12.80	99							
12.80	14.33	700							
14.33	15.85	01							
[illegible]	17.07	02							
17.07	20.12	03							
20.12	23.16	04							
[illegible]	26.52	05							
[illegible]	29.60	06							
29.60	32.31	07							
[illegible]	35.36	08							
[illegible]	39.01	09							
—	—	10	STD						94-SM
39.01	42.06	11							
[illegible]	[illegible]	12							
[illegible]	48.31	13							
[illegible]	51.51	14							
51.51	54.56	15							
[illegible]	57.91	16							
57.91	60.96	17							
60.96	63.09	18							
63.09	66.14	19							
[illegible]	69.49	20							
69.49	72.54	21							
72.54	74.98	22							
74.98	77.72	23							
77.72	81.08	24							
81.08	84.43	25							
84.43	87.48	26							
87.48	90.53	27							
90.53	93.57	28							
93.57	96.62	29							
—	—	30	STD						94-HL
96.62	99.67	31							
99.67	102.41	32							
[illegible]	[illegible]	33							
[illegible]	108.51	34							
[illegible]	111.41	35							
[illegible]	114.91	36							
[illegible]	117.96	37							
117.96	121.01	38							
121.01	124.05	39							
(EOH)									

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 334**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING
Date		
By		

INTERVAL: P = Primary; S = Secondary

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__6/5	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION: Anh = Anhydrite; Gyp = Gypsum; Cb = Carbonate; To = Tourmaline; Ep = Epidote; Lim = Limonite; Py = Pyrite; Cpy = Chalcopyrite; Cc = Chalcocite; Cu = Native Copper; Cup = Cuprite; Bn = Bornite; Sft = Sulphates; Mal = Malachite; Mag = Magnetite; Hem = Hematite; PbZn = Lead, Zinc; Qz = Quartz; Cal = Calcite; Frac = Fracturing; Slik = Slickensides; Mol = Molybdenite

ALTERATION: 7 = Potassic; 6 = Ser.-clay-chlor.; 5 = Phyllic (Sericite); 4 = Phyllic (K-Spar); 3 = Argillic (Kaolinite); 2 = Argillic (Montm.); 1 = Propylitic

DRILLING DATA		
APPROX. NORTHING	55100	
APPROX. EASTING	11530	
APPROX. ELEVATION		
DATE DRILLING STARTED		
DATE DRILLING ENDED	JUNE 13 '94	
TOTAL DEPTH	152.53m	CASING
CASING DEPTH		IN / OUT
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	L.K. BROMELAND	
2ND LOGGER		

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0	15.85	CAP	OVBR	3	S																													
					OVERBURDEN:																																
					0.00-7.33m: NOT SAMPLED																																
					7.33-9.23m: GRANODIORITE QUARTZ MONZONITE AND LESSER QUARTZ MONZONITE SECTIONS WITH A SANDY MATRIX																																
					"CLASTS" SIZE GENERALLY																																
					9.23-9.75m: GRANODIORITE AND QUARTZ MONZONITE FRAGMENTS 10cm IN SIZE, AVERAGE SIZE 2-3cm																																
					LIGHTER RICH SANDY MATRIX CLASTS - LIMONITIC																																
					9.75-11.28m: AS ABOVE WITH FRAGMENTS TO 5cm IN SIZE, AVERAGE SIZE 1-2cm																																
					11.28-12.80m: CORE SIZE FRAGMENTS OF GRANODIORITE AND MONZONITE IN A CLAY RICH MATRIX - CLASTS OXIDIZED																																
					12.80-14.33m: FRAGMENTS AVERAGE 2-3cm IN SIZE, MAINLY SAUSSURITIZED/ARGILLIC ALTERED GRANODIORITE																																
					14.33-15.85m: AS ABOVE - ABUNDANT MANGANESE OXIDE COATING CLASTS																																
P	15.85	23.16	CAP	WRGD	3	S	7	W	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	T	T	0	0	0	0	0	0	0	0	0	0
					LITHOLOGY:																																
					DAWSON RANGE GRANODIORITE																																
					ALTERATION:																																
					EXTREMELY CLAY ALTERED (POSSIBLY DUE TO GROUNDWATER FLOW AT OVERBURDEN CONTACT) POCK IS PERVASIVELY ARGILLIC ALTERED WITH MINOR K-SPAR FLOODING & BIOTITE																																

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 334**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					MINERALIZATION:										NO VISIBLE COPPER OR MOLY MINERALISATION																					
					STRUCTURE:																															
					ROCK IS CRUMBLY IN APPEARANCE																															
S	23.16	26.00	SOX	WRGD	7	5	3	M	0	0	0	0	0	M	0	0	0	0	0	0	T	T	0	T	T	0	0	0	0	0	0	0	0	S	0
					LITHOLOGY:																															
					DAWSON RANGE GRANODIORITE WITH ASSIMILATED DIORITE XENOLITHS																															
					ALTERATION:																															
					POTASSIC: K-SPAR FLOODED, CLAY ALTERED PLAGIOCLASE PHENOCRYSTS, BIOTITE, MAGNETITE AND HEMATITE ALTERED TO CHLORITE																															
					ARGILLIC: WEAK TO MODERATE CLAY OVERPRINT																															
					MINERALIZATION:																															
					MINOR SULPHATES OBSERVED AS FRACTURE COATINGS, MALACHITE STAINING EVIDENT.																															
					STRUCTURE:																															
					STRONGLY FRACTURED.																															
S	26.00	30.00	SUS	WRGD	7	S	5	W	0	0	0	0	0	W	0.3	0.03	T	0	0	0	0	0	0	T	T	0	W	T	0	0	0	D	0	M	0
					LITHOLOGY:																															
					MIXED DAWSON RANGE GRANODIORITE AND DIORITE. DIORITE GENERALLY AS PARTIALLY ASSIMILATED XENOLITHS WITHIN THE GRANODIORITE.																															
					ALTERATION:																															
					POTASSIC: K-SPAR FLOODING AND CONCENTRATIONS ASSOCIATED TO FRACTURES, SERICITIZED PHENOCRYSTS, WEAK BIOTITE, MAGNETITE AND HEMATITE																															
					PHYLLIC: QUARTZ/SERICITE ENVELOPES ON PYRITE VEINLETS, PATCHY CLAY ZONES OFTEN ADJACENT TO THESE ZONES.																															
					MINERALIZATION:																															
					CHALCOCITE AS COATINGS ON PYRITE, MINOR CHALCOPYRITE BLEBS AND VEINLETS,																															
					STRUCTURE:																															
					MODERATELY FRACTURED ROCK.																															

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 334**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
S	30.00	117.65	HYP	WRCD	7	S	1	W	W	W	M	o	T	o	0.5	0.5	o	o	o	o	o	o	.003	.2	.3	o	W	T	T	W	W	W	M	W	W
					LITHOLOGY:																															
							DAWSON		RANGE		GRANODIORITE		WITH		SECTIONS		OF		DAWSON		RANGE		DIORITE			THE	UNIT	IS							
							CROSS CUT		BY		SEVERAL		10%		PROPYLITIZED		DYKES		AND		VEINLETS.		UNIT	IS	MORE	FOLIATED		FROM	95m					
					ALTERATION:																															
							POTASS		G		K-SPAR		FLOODING		AND		CONCENTRATIONS		ADJACENT		TO		FRACTURES,		SERICITIZED		PLAGIOCLASE						
											PHENOCRYSTS,		BIOTITE,		MAGNETITE		&		HEMATITE,		PATCHY		CLAY		RICH	ZONES		ALSO							
											GYPSUM/ANHYDRITE		VEININGS																								
							PROPYLITIC:				WEAKLY		DISSEMINATED		EPIDOTE,		CHLORITE		&		BIOTITE														
											AS		VEINS/VEINLETS																						
					MINERALIZATION:																															
							CHALCOPYRITE		AS		BLEBS		IN		QUARTZ		VEINS		AND		VEINLETS		AND		DISSEMINATED		THROUGHOUT		ROCK						
							OFTEN		NOTED		AS		COATINGS		DISSEMINATIONS		ON		FRACTURE		SURFACES						TRACE		AMOUNTS		OF				
							FINELY		DISSEMINATED		MOLYBDENITE		NOTE		@		100m		CHALCOPYRITE		CONTENT		INCREASES											
					STRUCTURE:																															
							WEAKLY		TO		MODERATELY		FRACTURED		ROCK		WITH		OCCASIONAL		SHEAR		ZONES			FRACTURES		ARE						
							OFTEN		CALCITE		/		GYPSUM		COATED.																				
					COMMENTS:																															
							@	63.09	-	63.40m	:		SHEAR		ZONE;		CLAY		RICH,		UC		NOT		DISCERNIBLE,		LCA		@	030°		&	C.A.		
							@	65.20	-	66.10m	:		SHEAR		ZONE;		CLAY,		CARBONATE		RICH,		CONTACTS		NOT		DISCERNABLE								
							@	6300	-	78.00m	:		ROCK		IS		EXTREMELY		FRACTURED		WITH		CLAY												
							@	79.90	-	80.40m	:		FINE		GRAINED		QUARTZ		MONZONITE		DYKE		@		CPY		BLEBS		AND		FINE		DISSEM.		MO.
							@	100m		DEPTH			COPPER		MINERALIZATION		INCREASES		TO		0.7%		CHALCOPYRITE												
							@	103.20	-	103.40m	:		DYKE;		FINE		GRAINED,		QUARTZ		MONZONITE		IN		COMPOSITION										
							@	110.03	-	110.15m	:		DYKE;				"				"														
							@	111.05	-	111.25m	:		DYKE;				"				"														
P	117.65	122.53	HYP	QMFX	5	M	o	o	o	o	M	o	o	o	0.5	T	o	o	o	o	o	o	.004	o	T	o	T	o	o	M	o	o	W	W	W
					LITHOLOGY:																															
							FINE		GRAINED		BLEACHED		SHARP		MONZONITE		DYKE																		

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 334**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					ALTERATION:																														
					PHYLL										BY NUMEROUS QUARTZ AND PYRITE VEINS AND VEINLETS WITH																				
															TEXTURE DESTRUCTIVE QUARTZ SERICITE SELVAGE;																				
					MINERALIZATION:																														
							TRACE DISSEMINATED CHALCOPYRITE AND MOLYBDENITE																														
					STRUCTURE																														
							UPPER CONTACT @ APPROX. 050° TO C.A., ROCK IS WEAKLY FRACTURED																														

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-334 Page 1 of 3

LOGGED BY: Shawn Wallace

DATE 94-06-17

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	8.23	9.75	1.52	1.0	66	ø							overburden (cored);
1	9.75	11.28	1.53	0.93	61	ø							overburden
1-2	11.28	12.80	1.52	1.31	86	ø							"
2	12.80	14.33	1.53	1.31	86	ø							"
2	14.33	17.07	2.74	1.76	64	ø							"
2-3	17.07	18.59	1.52	1.22	80	ø	8	1	1	+50	5	3	Bedrock @ 15.05m
3	18.59	20.12	1.53	1.53	100	ø	4	1	2	+50	5	3	
3-4	20.12	21.64	1.53	1.46	96	ø	5	1	2	+50	5	3	
4	21.64	23.16	1.52	1.52	100	ø	4	2	4	26	5	3	
4	23.16	24.38	1.22	1.22	100	ø	8	3	4	25	5	3	
4	24.38	24.99	0.61	0.35	57	ø	8	3	4	5	5	3	
4-5	24.99	26.52	1.53	1.53	100	ø	8	3	4	20	5	3	
5	26.52	27.43	0.91	0.91	100	ø	9	3	4	6	1	2	
5	27.43	28.04	0.61	0.54	89	ø	9	3	4	7	1	2	
5	28.04	28.80	0.76	0.76	100	0.16	9	3	4	8	1	2	
5-6	28.80	30.17	1.37	1.37	100	0.37	10	2	4	16	1	2	
6	30.17	31.68	1.51	0.91	100	0.15	10	3	4	12	1	2	
6	31.68	32.31	1.23	1.23	100	0.17	9	3	4	15+	1	2	Small seam at end of interval
6-7	32.31	33.53	1.22	1.01	82	0.16	3	2	4	50	1	3	
7	33.53	34.14	0.61	0.60	98	0.15	10	2	4	6	1	3	SLICKENSIDES ON 005° X CA FRACTURE; NEAR HORIZONTAL @ 085°
7	34.14	35.36	1.22	0.95	78	ø	4	2	3	50	1	3	
7	35.36	36.58	1.22	1.15	94	0.32	10	3	4	10	1	2	
7-8	36.58	37.49	0.91	0.91	100	0.21	8	3	4	12	5	3	
8	37.49	39.01	1.52	1.50	99	ø	7	3	4	22	1	3	
8	39.01	39.62	0.61	0.41	67	ø	6	3	4	7	1	3	
8	39.62	40.23	0.61	0.55	90	ø	7	3	4	9	1	3	
8-9	40.23	41.15	0.92	0.90	98	0.18	5	3	4	20+	1	3	
9	41.15	42.06	0.91	0.88	96	ø	7	3	4	19	1	3	
9	42.06	43.28	1.22	0.98	80	ø	7	3	4	18	1	3	
9	43.28	44.20	0.92	0.92	100	ø	3	3	4	50+	1	3	GOUGE @ 43.28 - 43.48m; MIXED W SWELLING CLAY
9	44.20	44.35	0.15	0.15	100	ø	4	3	4	20+	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-334 Page 2 of 3

LOGGED BY: L. BROMMELAND

DATE 94-06-20

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
9-10	44.35	45.42	1.07	0.91	85	Ø	7	3	4	17	1	3	CALCITE COATED FRACTURES NOTED
10	45.42	46.63	1.21	1.07	88	0.15	9	3	4	13	1	2	
10	46.63	47.70	1.07	1.05	98	Ø	6	3	4	25+	1	2	
10	47.70	48.31	0.61	0.61	100	Ø	4	3	4	20	1	3	
10-11	48.31	49.38	1.07	0.83	78	17	7	3	4	12	1	3	
11	49.38	50.44	1.06	0.97	92	Ø	6	3	4	20+	1	3	
11	50.44	51.51	1.07	1.05	98	Ø	8	3	4	14	1	3	
11	51.51	52.43	0.92	0.43	46	0.18	8	3	4	5	1	3	GOUGE ZONE @ 51.84 - 52.43 m.
11-12	52.43	54.56	2.13	2.10	99	Ø	9	3	4	26	1	3	
12	54.56	55.47	0.91	0.90	99	Ø	6	3	4	21	1	3	
12	55.47	56.69	1.22	1.06	87	Ø	6	3	4	27	1	3	
12-13	56.69	57.91	1.22	1.15	94	0.85	10	3	4	9	1	1	SLICKENSIDES ON 030° FRACTURE @ 040° TO C.A.
13	57.91	59.44	1.53	1.27	83	0.44	9	3	4	14	1	2	
13	59.44	60.96	1.52	1.38	91	0.24	9	3	4	13	1	3	
13-14	60.96	61.57	0.61	0.56	92	0.16	9	3	4	7	1	3	
14	61.57	63.09	1.52	1.32	87	0.51	9	3	4	13	1	3	
14-15	63.09	64.62	1.53	1.50	98	0.36	10	3	4	11	1	2	GOUGE ZONE @ 63.09 - 63.40m - GOUGE IN MATRIX C.A. CONTACT @ 070° C.A.
15	64.62	66.14	1.52	1.52	100	0.00	7	3	4	20+	1	3	CLAY ALTERED INTERVAL
15	66.14	67.67	1.53	1.53	100	0.00	6	3	4	30+	1	3	
15-16	67.67	69.49	1.82	1.82	100	0.00	6	3	4	30+	1	3	
16	69.49	70.71	1.22	1.22	100	0.00	6	3	4	30+	1	3	
16	70.71	71.32	0.61	0.61	100	0.00	6	3	4	30+	1	3	
16-17	71.32	72.54	1.22	1.22	100	0.16	7	3	4	30+	1	3	
17	72.54	73.15	0.61	0.61	100	0.00	6	3	4	25+	1	3	
17	73.15	73.76	0.61	0.31	51	0.00	3	3	4	25+	1	3	
17	73.76	74.98	1.22	0.96	79	0.00	6	3	4	14	1	3	
17	74.98	76.20	1.22	1.22	100	0.00	7	3	4	17	1	3	
18	76.20	77.72	1.52	1.45	95	0.00	6	3	4	30+	1	3	
18	77.72	78.94	1.22	1.14	93	0.33	9	3	4	12	1	1	SLICKENSIDES ON 005° FRACTURE - HORIZONTAL
18	78.94	79.86	0.92	0.88	96	0.18	7	3	4	15	1	3	
18-19	79.86	81.08	1.22	1.22	100	0.17	7	3	4	19	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY

DATE:	
BY:	

DATA CHECKING

DATE:	
BY:	

DDH 94-334 Page 3 of 3

LOGGED BY: LK BROMMELAND

DATE 94-06-20

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
19	81.08	82.76	1.68	1.49	89	0.17	9	3	4	16	[illegible]	[illegible]	SLICKENSIDES ON 015° & CA FRACTURE @ 030° TO C.A.
19	82.76	84.43	1.67	1.40	84	0.41	10	3	4	14	[illegible]	2	
19-20	84.43	85.95	1.52	1.43	94	Ø	6	3	4	30+	[illegible]	2	
20	85.95	87.48	1.53	1.46	95	Ø	8	3	4	19	[illegible]	3	
20-21	87.48	89.00	1.52	1.43	93	0.58	9	3	4	18	[illegible]	2	
21	89.00	90.53	1.53	1.53	100	0.48	11	3	4	13	[illegible]	3	
21	90.53	92.05	1.52	1.44	94	1.20	10	3	4	9	[illegible]	2	
21-22	92.05	93.57	1.52	1.52	100	0.51	10	3	4	12	[illegible]	3	
22	93.57	95.10	1.53	1.53	100	Ø	6	3	4	30+	[illegible]	3	
22	95.10	96.62	1.52	1.52	100	Ø	6	3	4	30+	[illegible]	3	
22-23	96.62	98.15	1.53	1.52	99	Ø	7	3	4	29	[illegible]	3	
23	98.15	99.67	1.52	1.52	100	Ø	6	3	4	30+	[illegible]	3	
23	99.67	100.28	0.61	0.61	100	Ø	6	3	4	30+	[illegible]	3	
23-24	100.28	101.19	0.91	0.91	100	Ø	6	3	4	25	[illegible]	2	SLICKENSIDES ON 010° FRACTURE @ 045° & CA
24	101.19	102.41	1.22	1.22	100	Ø	6	3	4	30+	[illegible]	1	CALCITE LINED FRACTURES
24	102.41	103.94	1.53	1.53	100	Ø	7	3	4	22	1	3	
24-25	103.94	105.46	1.52	1.47	96	0.36	7	3	4	26	1	3	
25	105.46	106.98	1.52	1.52	100	0.38	7	3	4	19	1	3	
25-26	106.98	108.51	1.53	1.46	95	0.55	9	3	4	13	1	3	
26	108.51	110.19	1.68	1.54	92	1.22	11	3	4	8	1	3	
26	110.19	111.71	1.52	1.52	100	0.58	10	3	4	10	1	3	
26-27	111.71	113.39	1.68	1.46	87	0.50	10	3	4	12	1	3	
27	113.39	114.91	1.52	1.43	94	0.55	10	3	4	12	1	1	SLICKENSIDES ON 001° FRACTURE @ 085° TO C.A - NEAR HORIZONTAL
27-28	114.91	116.43	1.52	1.52	100	0.77	10	3	4	10	1	2	SLICKENSIDES ON 020° FRACTURE @ 050° TO CA
28	116.43	117.96	1.53	1.53	100	0.99	10	3	4	9	1	3	CALCITE COATED SLICKENSIDES ON 030° FRACT @ 070° & C.A
28	117.96	119.48	1.52	1.52	100	0.38	10	3	4	13	1	3	
28-29	119.48	121.01	1.53	1.49	97	0.54	10	3	4	15	1	1	SLICKENSIDES ON 030° FRACTURE @ 050° TO CA.
29	121.01	122.53	1.52	1.52	100	1.06	10	3	4	7	1	2	
	(E O H)												

DATE	June 21/94
RIG #	4

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 335	Page
Geologist	L. BROMHEAD	of

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.80	1.52	927340		CPP	OVBR		N/A	N/A	
1.52	2.13	341							
2.13	3.66	42							
3.66	5.18	43							
5.18	6.40	44							
6.40	9.75	45		CPP	WKSD				
9.75	12.80	46							
12.80	15.85	47							
15.85	18.90	48							
18.90	21.95	49							
—	—	50	STD						- CM
21.95	24.69	51							
24.69	27.74	52							
27.74	30.94	53							
30.94	34.14	54							
34.14	37.19	55							
37.19	40.23	56							
40.23	43.28	57							
43.28	46.32	58							
46.32	49.99	59							
1	EOH)								

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 335**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00					
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

DRILLING DATA		
APPROX. NORTHING		
APPROX. EASTING		
APPROX. ELEVATION		
DATE DRILLING STARTED		
DATE DRILLING ENDED	JUNE 30/94	
TOTAL DEPTH	43.99m	CASING
CASING DEPTH		IN / OUT
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	L. BROMELAND	
2ND LOGGER		

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6 Latite	QM__3	Quartz Monzonite	
LP__6/5 Porphyritic Latite	QP__3p	Early Patton Porphyry	
M___ Microbreccia	QX__/3x	Homolithic Intrusion Breccia	
PP__5 Patton Porphyry	WR__2	Dawson Range Batholith	
IX__4 Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic	

MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	Mol = Molybdenite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	
To = Tourmaline	Cup = Cuprite	Qz = Quartz	
Ep = Epidote	Bn = Bornite	Cal = Calcite	
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	
Py = Pyrite	Mal = Malachite	Slik = Slickensides	

ALTERATION

7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	PbZn	(*)	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	6.40	CAP	OVBR																															
					LITHOLOGY:																															
							OVERBURDEN; THE MAJORITY OF THE UNIT IS COMPOSED OF GRANODIORITE FRAGMENTS RANGING IN SIZE FROM <1cm TO 6cm IN SIZE, IN A SANDY/CLAY RICH "MATRIX". OXIDIZED																													
							0.00-0.30m - ZERO RECOVERY																															
							0.30-0.91m - GRANODIORITE; VERY LITTLE SAND/MUD, FRAGMENTS AVERAGE 4 cm IN SIZE (PROBABLY FILL FOR PA)																													
							0.91-1.52m - GRANODIORITE AND MONZONITE FRAGMENTS, AVERAGE SIZE 4-6 cm IN DIAMETER (PROBABLY FILL FOR PA)																													
							1.52-2.13m - GRANODIORITE AND MONZONITE FRAGMENTS AVERAGE SIZE 5-6 cm																													
							2.13-3.66m - COARSE QUARTZ/FELDSPAR SAND (1mm GRAIN SIZE) AND GRANODIORITE FRAGMENTS TO 5cm IN SIZE																													
							3.66-5.18m - COARSE QTZ/FELSP SAND WITH GRANODIORITE FRAGMENTS AVERAGING 2.5 cm IN SIZE. MINOR MONZONITE FRAGMENTS																													
							5.18-6.40m - AS ABOVE WITH MORE ABUNDANT SILTY/CLAY SECTIONS																													
P	6.40	20.50	CAP	WRGD	3	M	1	W	0	0	T	0	T	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0
					LITHOLOGY:																															
							COARSE GRAINED GRANODIORITE APPEARS TO HAVE UNDERGONE LITTLE HYDROTHERMAL ALTN., OXIDIZED																													
					ALTERATION:																															
							PHYLLIC: BIOTITES CHLORITIZED; MINOR DISSEMINATED EPIDOTE, WEAKLY CALCAREOUS																													

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER 94 - 335

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					ALTERATION CONT.:																															
					ARGILLIC: FELDSPARS ALTERED TO CLAY																															
					MINERALIZATION:																															
					NO VISIBLE OR DISSEMINATED MINERALIZATION																															
					STRUCTURE:																															
					EXTREMELY FRACTURED ZONE: CRUMBLY, WITH LESSER COMPETENT SECTIONS																															
S	20.50	24.50	SOX	WRSD	3	M	1	W	0	0	T	0	T	S	.3	0	0	0	0	>	T	0	0	0	0	0	W	0	0	T	0	0	0	S	0
					LITHOLOGY:				AS ABOVE																											
					ALTERATION:				AS ABOVE																											
					MINERALIZATION:				TRACE AMOUNTS OF WHITE SULPHIDE (FE OR CU BEARING ?) ON FRACTURES.																															
					STRUCTURE:				STRONG, FRACTURED AND CRUSHED / LIMONITE ON FRACTURE SURFACES.																															
S	24.50	35.50	SUS	WRSD	1	W	7	3	0	0	T	0	T	W	.3	0	.2	0	0	0	0	0	0	.3	0	.	W	0	0	T	0	0	0	M	0
					LITHOLOGY:				AS ABOVE																											
					ALTERATION:				PROPYLITIC: ELEVATED CHLORITE, TRACE DISSEMINATED EPIDOTE, CALCITE:																															
					POTASSIC: WEAK K-SPAR CONCENTRATIONS ADJACENT TO FRACTURES, ABUNDANT DISSEM MAGNETITE																															
					MINERALIZATION:				THIN CHALCOCITE COATINGS ON FRACTURE SURFACES AND ON PYRITE																															
					STRUCTURE:				MODERATELY FRACTURED WITH WEAK LIMONITE ON FRACTURE SURFACES																															
					@ 29.50 - 29.60 m: CLAY RICH ZONE, REV WITH PYRITE IN MATRIX																															

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 235**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
S	35.50	49.99	HYP	WRGD	7	W.	1	W	0	0	T	0	T	W	.4	.2	0	0	0	0	0	0	0	.3	.1	0	W	0	0	T	0	0	0	W	0
					FELDSPAR		AS ABOVE																												
					ALTERATION																														
					-		AS AB																												
					MINERALIZATION																														
							TRACE																												
							MOLY																												
					STRUCTURE																														
							WEAK																												
							D 4/5m																												

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-335 Page 1 of 2

LOGGED BY: T. Becker

DATE June 21/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.30	0.91	0.61	0.07	11	0	2	1	1				- fill from drill rod
1	0.91	1.52	0.61	0.07	11	0	2	1	1				- fill from drill rod
1	1.52	2.13	0.61	0.12	20	0	2	1	1				- fill from drill rod
1	2.13	3.66	1.53	0.28	18	0	2	0	1				- sandy [illegible]
1	3.66	5.18	1.52	1.35	89	0	2	1	2				- decomposed bedrock
1	5.18	6.40	1.22	0.65	53	0	2	10+	2				- decomposed bed rock
1	6.40	7.01	0.61	0.56	92	0	7	1	3	10	1	2	- bedrock - weakly decomposed
2	7.01	8.38	1.37	0.95	69	0	8	2	3	14	1	2	
2	8.38	9.75	1.37	0.93	68	0.45	8	2	3	18	1	2	
2	9.75	11.28	1.53	1.43	93	0	8	2	3	25	1	2	
3	11.28	12.80	1.52	1.13	74	0	8	2	3	23	1	2	
3	12.80	14.33	1.53	0.90	59	0	6	2	3	9	1	2	
4	14.33	15.85	1.52	1.22	80	0	5	2	2	50+	1	2	- crumbly
4	15.85	17.37	1.52	1.56	103	0	5	2	2	50+	1	2	- crumbly
4	17.37	18.90	1.53	1.22	80	0	6	2	2	50+	1	2	- crumbly
5	18.90	20.42	1.52	1.43	93	0	6	2	2	50+	1	2	
5	20.42	21.95	1.53	1.32	86	0.45	7	3	3	15	1	2	
6	21.95	23.32	1.37	1.16	85	0.30	7	3	3	18	1	2	
6	23.37	24.69	1.37	1.25	91	0	7	3	3	20	1	2	
7	24.69	26.21	1.52	1.45	95	0	7	2	3	19	1	2	
7	26.21	27.74	1.53	1.53	100	0	7	2	4	14	1	2	
8	27.74	29.41	1.67	1.55	93	0	7	3	4	23	1	2	
8	29.41	30.94	1.53	1.49	97	0	7	2	4	14	1	2	29.5m 10cm clicky clay band
9	30.94	32.46	1.52	1.52	100	0	8	3	4	24	1	2	
9	32.46	34.14	1.68	1.52	90	0	7	3	4	22	1	2	
10	34.14	35.66	1.52	1.37	90	0	8	3	4	31	1	2	
10	35.66	37.19	1.53	1.47	96	0	8	4	4	26	1	2	
11	37.19	38.71	1.52	1.49	98	0.91	7	4	4	32	1	2	
11	38.71	40.23	1.52	1.43	94	0	7	4	4	27	1	2	
12	40.23	41.76	1.53	1.53	100	0.30	8	4	5	14	1	2	- 5cm qv vein
12	41.76	43.28	1.52	1.52	100	0	8	4	5	17	1	2	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-335 Page 2 of 2

LOGGED BY: T Becker

DATE June 21/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
12	43.28	44.81	1.53	1.50	98	0.46	9	4	5	29	1	2	
13	44.81	46.33	1.52	1.36	89	0.50	9	4	5	24	1	2	
13	46.33	47.85	1.52	1.52	100	0.79	9	4	5	13	1	2	
14	47.85	49.99	2.14	2.14	100	0.32	9	4	5	22	1	2	EOH at 164.1' 49.99m

DATE	JUNE 22/94
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 336	Page	1
Geologist	L. BROMMELAND	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0	1.22	327360							
1.22	2.13	61							
2.13	3.51	62							
3.51	4.88	63							
4.88	7.92	64							
7.92	11.13	65							
11.13	14.17	66							
14.17	17.07	67							
17.07	20.12	68							
20.12	22.86	69							
—	—	70	STD						94-CM
22.86	26.52	71							
26.52	29.11	72							
29.11	33.22	73							
33.22	36.27	74							
36.27	39.01	75							
39.01	41.76	76							
41.76	44.81	77							
44.81	47.85	78							
47.85	50.44	79							
50.44	53.95	80							
53.95	56.69	81							
56.69	60.05	82							
(EOH)									

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 336**

SURVEY DATA

SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00					
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING
Date		
By		

INTERVAL: P = Primary, S = Secondary

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__8/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc
To = Tourmaline	Cup = Cuprite	Qz = Quartz
Ep = Epidote	Bn = Bornite	Cal = Calcite
Lim = Limonite	Sft = Sulphates	Frac = Fracturing
Py = Pyrite	Mal = Malachite	Slik = Slickensides

Mol = Molybdenite

ALTERATION

7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

DRILLING DATA

APPROX. NORTHING	
APPROX. EASTING	
APPROX. ELEVATION	
DATE DRILLING STARTED	
DATE DRILLING ENDED	
TOTAL DEPTH	CASING
CASING DEPTH	IN / OUT
DEPTH OF HQ-NQ REDUCTION	
LOGGED BY	L.K. SCHNIEDER
2ND LOGGER	

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0	[illegible]	CAP	OVER	3	M																													
					LITHOLOGY:																																
					OVERBURDEN [illegible]																																
					0.00 - [illegible] m: BROKEN [illegible]																																
					0.61 - [illegible] m: [illegible] AND [illegible]																																
					MINOR QUANTITIES OF [illegible]																																
					1.22 - 2.13 m: [illegible] AND WHITE QUARTZ FRAGMENTS [illegible]																																
					LITTLE SILT [illegible]																																
					2.13 - 2.51 m: CRUMBLY [illegible] AND QUARTZ/FELDSPAR SAND (< 0.5 mm Ø WITH 1-2mm SIZE																																
					GRAINS OF BIOTITE/SERICITE AND CRUMBLY ZONE LOOKS LIKE DECOMPOSED																																
					BEDROCK.																																
					2.51 - 4.88 m: CRUMBLY TRENDED WHITE, COARSE GRAINED, AS ABOVE BUT CHLORITIZED AND SERICITIZED. FELDSPAR DOES [illegible]																																
					BIOTITE [illegible]																																
					[illegible]																																
T	4.88	5.00	CAP	WEAK	3	M	7	W	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	.4	.2	0	0	0	0	0	0	0	<	5	0
					LITHOLOGY:																																
					COARSE GRAINED GRANODIORITE WITH LARGE (TO 7mm Ø) BIOTITE GRAINS WHICH HAVE BEEN REPLACED BY CHLORITE AND/OR SERICITE. UNIT IS EXTREMELY OXIDIZED WITH LIMONITE COATING ALL FRACTURE SURFACES.																																

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 -**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					ALTERATION:		ARGILLIC		: ROCK HAS BEEN ALTERED DUE TO SURFACE WATERS OVERPRINTING WEAK POTASSIC																												
					MINERALIZATION:		NO VISIBLE COPPER OR MOLY MINERALIZATION																														
					STRUCTURE:		STRONG		FRACTURED ROCK																												
P	0.00	33.00	SOX	WRGD	F	W	3	W	0	0	0	0	0	M	.1	0	0	0	0	0	T	.3	0	.4	.2	0	0	0	0	T	0	0	0	S	0
					LITHOLOGY:		AS ABOVE																														
					ALTERATION:		POTASSIC: K-SPAR CONCENTRATED ADJACENT TO FRACTURES, BIOTITE (REPLACING ORIGINAL HORNBLENDE?), MAGNETITE WITH HEMATITE AFTER MAGNETITE, SERICITIZED PLAG PHENO'S.																														
							ARGILLIC: WEAK CLAY OVERPRINT. CLAY ALTERED PLAGIOCLASE PHENO'S.																														
					MINERALIZATION:		ABUNDANT PALE GREEN MALACHITE IN FRACTURE SURFACES AND AS FRACTURE INFILLINGS. TRACE AZURITE (BROCHANTITE) CHALCANTHITE																														
					STRUCTURE:		STRONGLY FRACTURED ROCK.																														
							@ 25.50 - 26.50m: PEBBLE DYKE (LTXD); ANGULAR FRAGMENTS TO 5cm IN LENGTH OF LATITE, QUARTZITE (?), AND QUARTZ IN AN OXIDIZED FINE GRAINED LATITE MATRIX. TRACE MAGNETITE AND PYRITE OBSERVED. FRACTURED WITH NO DISCERNIABLE UPPER OR LOWER CONTACT.																														
P	33.00	40.00	SOX	LTDA	3	M	0	0	0	0	S	0	0	0	0.8	0	0	0	0	0	0	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					LITHOLOGY:		LATITE DYKE; BLEACHED GREY COLOUR, FINE GRAINED. APPEARS TO BE BRECCIATED IN SECTIONS WITH THE FRAGMENTS MORE SILICEOUS THAN MATRIX.																														
					ALTERATION:		ARGILLIC; ROCK IS CLAY ALTERED; EXTREMELY CALCAREOUS																														

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 336**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	40.00 (EOH)	60.05	SUS	UNSD	7	5	1	W	0	0	5	0	T	0	10	T	.2	0	0	T	0	0	0	.5	.2	0	W	0	W	W	0	0	0	W	0

MINERALIZATION: TRACE AMOUNTS OF MALACHITE AS FRACTURE INFILLINGS, TRACE AZURITE.

STRUCTURE: VERY FEW FRACTURES, MAY BE BRECCIATED IN PLACES.

LITHOLOGY:

DAWSON RANGE GRANODIORITE -

ALTERATION:

PHYLLIC: K-FELD FLOODING AND CONCENTRATIONS CERTAIN TO BE DYKES, FLOODING VS TEXTURE DESTRUCTIVE; ABUNDANT MAGNETITE & HEMATITE.

PROPYLITIC: CHLORITIZED NOTES, TRACE DISSEMINATED EPIDOTE, STRONG CALCAREOUS.

MINERALIZATION:

CHALCOPYRITE COATING PYRITE. PYRITE AS DISSEMINATIONS, VEINS AND VUGS, MOLY MOSTLY NOTEABLY ON FRACTURE SURFACES. TRACE BORNITE (?)

EXTREMELY FINE GRAINED. TRACE DISSEMINATED CHALCOPYRITE.

STRUCTURE:

WEAKLY FRACTURED ROCK.

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-336 Page 1 of 2

LOGGED BY: T. Becker

DATE June 22/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0	0.61	0.61	0.11	18	0	6	—	1	—	—	—	- no fines overburden
1	0.61	1.22	0.61	0.18	29	0	6	—	1	—	—	—	" " "
1	1.27	2.13	0.91	0.11	12	0	6	—	1	—	—	—	" " "
1	2.13	3.51	1.38	0.32	23	0	6	1	2	—	—	—	- strongly decomposed bedrock
1	3.51	4.88	1.37	0.62	45	6	6	2	2	—	—	—	- decomposed bedrock
1	4.88	6.40	1.52	1.20	79	0	6	1	2	12	1	3	- decomposed bedrock
2	6.40	7.92	1.52	1.45	95	0	6	2	3	50+	1	3	- bedrock
2	7.92	9.45	1.53	1.28	84	0	6	2	3	50+	1	3	
3	9.45	11.13	1.68	1.38	82	0	7	2	3	25	1	2	
3	11.13	12.65	1.52	1.25	82	0	7	2	3	25	1	3	
4	12.65	14.17	1.52	1.33	87	0	7	2	3	33	1	2	
4	14.17	15.70	1.53	1.48	97	0	7	2	3	38	1	3	
5	15.70	17.07	1.37	1.24	91	0	7	2	3	24	1	2	
5	17.07	18.59	1.52	1.07	70	0	8	2	4	16	1	2	
6	18.59	20.12	1.53	1.45	95	0	8	2	4	23	1	3	
6	20.12	21.64	1.52	1.35	89	0.62	8	2	4	18	1	2	
6	21.64	22.86	1.22	1.22	100	0	8	2	3	15	1	3	
7	22.86	24.08	1.22	1.05	86	0	8	2	4	12	1	3	
7	24.08	24.99	0.91	0.91	100	0	9	3	4	11	1	2	
7	24.99	26.52	1.53	1.28	84	0	8	3	3	10	1	3	
8	26.52	27.58	1.06	1.06	100	0	6	3	3	50+	1	3	
8	27.58	28.19	0.61	0.41	67	0	6	3	3	50+	1	3	- broken rock
8	28.19	28.50	0.31	0.15	48	0	6	2	3	50+	1	3	
8	28.50	29.11	0.61	0.59	97	0	7	2	3	12	1	3	
9	29.11	30.02	0.91	0.75	82	0	7	2	3	10	1	3	
9	30.02	31.70	1.68	1.25	74	0.51	8	2	3	8	1	3	- 10 cm soft clay band
9	31.70	33.22	1.52	0.85	56	0	7	2	3	12	1	3	
10	33.22	34.75	1.53	0.99	65	0.30	8	3	3	11	1	3	
10	34.75	36.27	1.52	0.95	62	0.93	10	3	4	2	5	3	
10	36.27	37.64	1.37	1.35	98	0.125	10	3	4	1	5	3	- 5 cm soft clay band
10	37.64	39.01	1.37	1.35	98	0.88	10	3	4	4	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-336 Page 2 of 2

LOGGED BY: T. Becker

DATE June 22/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
11	39.01	40.23	1.22	0.42	34	0	7	3	4	12	1	3	
11	40.23	41.76	1.53	0.94	61	0.15	7	4	4	9	1	2	
11	41.76	42.37	0.61	0.22	36	0	7	4	4	6	1	2	
11	42.37	43.13	0.76	0.45	59	0	7	4	4	9	1	2	
11	43.13	43.89	0.76	0.47	62	0	7	4	4	15	1	2	
12	43.89	44.20	0.31	0.18	58	0	7	4	4	50+	1	2	
12	44.20	44.81	0.61	0.49	80	0	7	4	4	10	1	2	
12	44.81	46.18	1.37	1.33	97	0	7	4	5	18	1	3	
12	46.18	46.94	0.76	0.76	100	0.30	7	4	5	13	1	3	
13	46.94	47.85	0.91	0.86	95	0	7	4	5	6	1	3	
13	47.85	48.77	0.92	0.81	88	0	7	4	5	12	1	3	
13	48.77	49.38	0.61	0.61	100	0	7	4	5	9	1	3	
13	49.38	50.44	1.06	0.98	92	0	7	4	5	17	1	3	
14	50.44	51.66	1.22.	0.97	79	0	7	4	5	22	1	3	
14	51.66	52.43	0.77	0.77	100	0	7	4	5	13	1	3	
14	52.43	53.95	1.52	1.35	89	0	7	4	5	26	1	2	
15	53.95	54.56	0.61	0.61	100	0	7	4	5	14	1	3	
15	54.56	55.78	1.22	0.84	69	0	7	4	5	22	1	3	
15	55.78	56.69	0.91	0.91	100	0.17	7	4	5	16	1	3	
15	56.69	57.61	0.92	0.92	100	0	7	4	5	16	1	3	
16	57.61	59.13	1.52	1.52	100	0	7	4	5	22	1	3	
16	59.13	60.05	0.92	0.92	100	0.63	7	4	5	14	1	3	

SUMMARY - HOLE 94-337

NORTHING: 54800m
EASTING: 11650m

DATE: June 26, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information. It encountered weak copper and molybdenum mineralization. The host rocks were granodiorite with diorite sections up to 23 m and minor quartz monzonite dykes at the bottom of the hole. The alteration was mainly phyllic (5) with lesser zones of argillic and propylitic. A narrow galena/sphalerite vein was encountered at 99.5 m. The core was broken and blocky, but no major structures were noted.

LITHOLOGY:

Overburden extended to 11.89 m. It consists of mainly granodiorite clasts, averaging 5 cm in size, in a clay/sand matrix. Residual bedrock was encountered from 10.67 to 11.89 m. The hole is dominated by typical Dawson Range Granodiorite, with minor 0.5 to 2 m fragments of diorite. The largest diorite fragment was from 52.4 to 78.9 m. Near the bottom of the hole the granodiorite is cut by quartz monzonite/pegmatite dykes from 1 cm to 1 m in size.

ALTERATION:

The hole is dominated by phyllic (5) alteration. Characterized by narrow veinlets with quartz/sericite envelopes up to 1 cm on either side and a pale bleached look to the rock. Patchy clay alteration is associated with the phyllic alteration mainly in the granodiorite and less well developed in the diorite. Weak propylitic alteration occurs in the larger diorite areas and near the bottom of the hole.

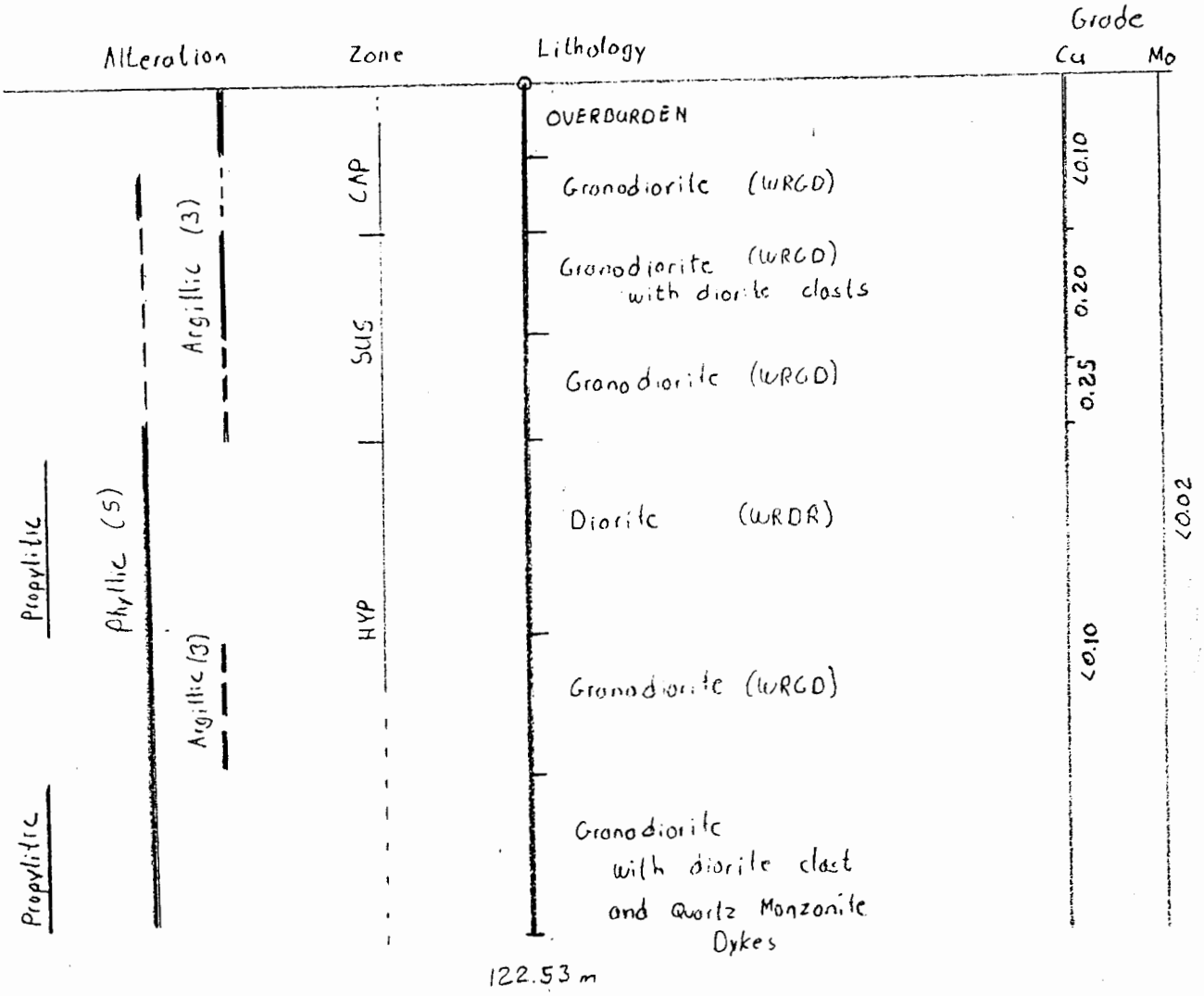
STRUCTURE:

The core was broken and blocky throughout, but more broken in the diorite areas then the granodiorite areas. Fractures were generally planar and irregular with only minor smooth surfaces and very uncommon slickensides. The strongest shear structure was a 3 cm gouge zone at 63.0 m.

MINERALIZATION:

The leached cap extended to 23.16 m and contained minor pyrite veins up to 17.07 m and strong limonite after that. No supergene oxide zone was noted. The supergene sulphide zone extended to 52.40 m. Chalcocite occurred as a thin coating over pyrite and along some fractures. Trace amounts of native copper occurred along fractures and minor chalcopyrite occurred in veins. The hypogene zone was weakly mineralized with only traces of chalcopyrite and molybdenite.

94-337



0 10 20 30 m

Geotech Hole

Casino Project
DDH 94-337
Scale 1 : 1000
54800 N
11650 E
June 25, 1994
T.C Becker

DATE	June 24 1994
RIG #	

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94-537	Page	1
Geologist	T. Becker	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE Mo82 %	COMMENTS
5.79	6.71	927621		CAP	OVBR	3	<0.10	<0.02	
6.71	7.92	622		"	"	"	"		
7.92	9.45	623		"	"	"	"		
9.45	10.67	24		"	"	"	"		
10.67	11.89	25		"	"	"	"		
11.89	14.33	26		"	WRGD	5	"		
14.33	17.07	27		"	"	"	"		
17.07	19.81	28		"	"	3	"		
19.81	23.16	29		"	"	"	"		
		30	STD						94-CM
23.16	25.91	31		SUS	WRGD	3	0.2	<0.02	
25.91	28.96	32		"	"	"	"		
28.96	31.85	33		"	"	"	"		
31.85	35.05	34		"	"	"	"		
35.05	37.80	35		"	"	"	"		
37.80	40.23	36		"	"	"	"		
40.23	42.82	37		"	"	"	0.25		- native Cu
42.82	46.02	38		"	"	"	0.20		
46.02	49.23	39		"	"	"	"		
49.23	52.43	40		"	"	"	"		
52.43	55.17	41		HYP	WRQR	5	0.10		
55.17	57.91	42		"	"	"	"		
57.91	61.57	43		"	"	"	"		
61.57	64.62	44		"	"	"	<0.10		
64.62	67.67	45		"	"	"	"		
67.67	70.71	46		"	"	"	"		
70.71	73.76	47		"	"	"	"		
73.76	76.81	48		"	"	"	"		
76.81	79.86	49		"	"	"	0.15		- native Cu
		50	STD						94-HL
79.86	82.60	51		HYP	WRGD	5	<0.10	<0.02	
82.60	85.65	52		"	"	"	"		
85.65	88.85	53		"	"	"	"		
88.85	91.96	54		"	"	"	"		
91.96	95.10	55		"	"	"	"		
95.10	98.15	56		"	"	"	"		
98.15	101.19	57		"	"	"	"		Pb/Zn vein
101.19	104.24	58		"	"	"	"		
104.24	107.14	59		"	"	"	"		
		60	STD						94-HL
107.14	110.18	61		HYP	WRGD	5	<0.10	<0.02	
110.18	113.23	62		"	"	"	"		
113.23	116.43	63		"	"	"	"		
116.43	119.48	64		"	"	"	"		
119.48	122.53	927665		"	"	"	"		

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 337**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1	122.53	-90°				
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

DRILLING DATA		
APPROX. NORTHING	54800	
APPROX. EASTING	11650	
APPROX. ELEVATION	1140	
DATE DRILLING STARTED	June 20	
DATE DRILLING ENDED	June 22	
TOTAL DEPTH	122.53	CASING
CASING DEPTH	12.19	IN (OUT)
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	T.C. Becker	
2ND LOGGER		

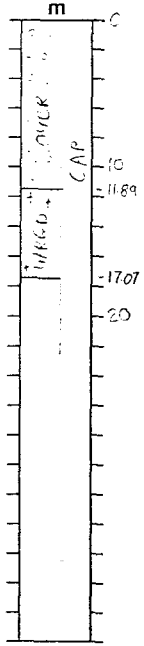
INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES			
LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION			Mol = Molybdenite
Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	
To = Tourmaline	Cup = Cuprite	Qz = Quartz	
Ep = Epidote	Bn = Bornite	Cal = Calcite	
Lim = Limonite	*Sft = Sulphates*	*Frac = Fracturing*	
Py = Pyrite	Mal = Malachite	Slik = Slickensides	

ALTERATION
7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

GRAPHIC LOG (m)



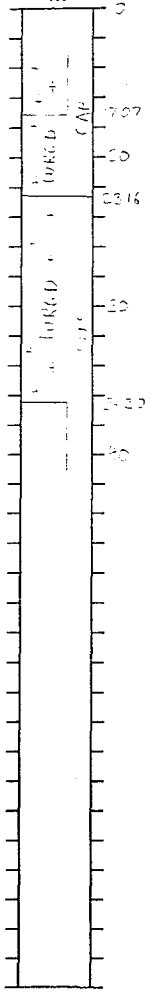
P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0	11.89	CAP	OVBR	3	S	0	0	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0
					Overburden																													
					various clasts				from less than 1mm to 17cm in size in a clay rich matrix																											
	0.0	5.79 m			not				sampled																									
	5.79	6.71 m			one				15 cm granodiorite clast with smaller, diorite, granodiorite and quartz monzonite fragments in very minor clay matrix, weak LI coating																											
	6.71	7.92 m			more				clay matrix than above, 2cm average fragment size, weak LI coatings																	30% clay + sand								
	7.92	9.45 m			~30%				clay/sand matrix with an average fragment size of 3cm mainly granodiorite clasts																										
	9.45	10.67			~20%				clay/sand matrix, more LI along fractures than above. average fragment size of 4cm, mainly granodiorite + quartz monzonite																										
	10.67	11.89			res				dual bedrock?, very minor clay/sand matrix, mainly limonite stained granodiorite angular clasts																										
P	11.89	17.07	CAP	WRGD	5	S	3	M	0	0	0	0	6	S	1%	J	0	0	0	0	0	0	0	0	0	0	M	0	0	0	0	0	0	S	0
					Lithology				Dawson Range Granodiorite																											

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 337**

GRAPHIC LOG m

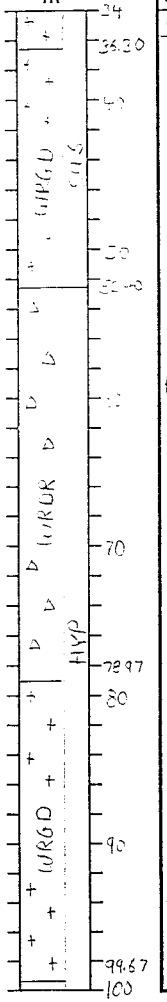


P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					Alteration																														
					- strong phyllic, both veins and pervassive, obscures texture of																						rock								
					- overprinted by moderate supergene clays.																														
					- strong limonite on fractures																														
					Mineralization																														
					- no visible copper or molybdenum, but common pyrite along veins																						mainly up to 3cm								
					wide, massive pyrite, weakly disseminated																														
					Structure:																														
					- strong pyrite veins, crumbly in places																														
S	17.07	23.16	CAP	WRGD	3	S	S	M	o	o	o	o	o	W	W	o	o	o	o	o	o	o	o	o	o	o	T	o	o	o	o	o	S	o
					Lithology																														
					Dawson Range Granodiorite																														
					Alteration																														
					- strong supergene clay overprint of moderate phyllic																														
					Mineralization																														
					- no visible Cu or Mo, decrease in pyrite from above interval																														
					Structure																														
					- very crumbly and soft rock																														
S	23.16	36.30	SUS	WRGD	3	S	S	M	o	o	o	o	o	T	W	T	T	o	o	o	o	o	o	o	o	o	T	o	o	o	o	o	o	M	o
					Lithology																														
					Dawson Range Granodiorite with Diorite clasts -																														
					24.0 - 28.0 Diorite Clast											31.0 - 36.3 Diorite clasts																				
					Alteration																														
					- strong supergene clay (stronger in Diorite ?), moderate phyllic																														
					Mineralization																														
					- weak chalcocite coating pyrite along fractures and pyrite veins																														
					- appears to be a very thin coating of chalcocite																														
					- trace Chalcopyrite along veins																														
					Structure																														
					- moderate to strongly fractured rock																														

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 337**



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE
S	36.30	52.40	SUS	GWRGD
P	52.40	73.97	HYP	GRDR
P	78.97	99.67	HYP	GWRGD

ALTERATION

	MAJOR Type	MAJOR Intens.	MINOR Type	MINOR Intens
S	3	M	5	M
P	5	M	1	W
P	5	S	3	W

SECONDARY MINERALS (INTENSITY)

	Anh	Gyp	Cb	To	Ep	Lim
S	0	0	0	0	0	T
P	0	0	W	0	0	0
P	0	0	0	0	0	0

MINERALIZATION (PERCENT)

	Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn
S	W	T	T	T	0	0	0	0	0	0	0	0
P	W	T	0	0	0	0	0	0	0	0	0	0
P	T	T	0	0	0	0	0	0	0	0	0	*

STRUCTURE - VEINS (INTENSITY)

	Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
S	W	0	0	0	0	G	0	M	0
P	W	T	0	0	0	0	M	S	0
P	W	0	0	0	0	0	W	M	0

Lithology

Dawson Range Granodiorite

Alteration

moderate supergene clays with phyllic along veins

Mineralization

- weak chalcocite coating pyrite along fractures, trace chalcopyrite along veins and very minor native copper at 41.5 m

Structure

- less fractured than diorite sections, - weak pyrite /phyllic veins avg 4mm wide

Lithology

Dawson Range Diorite - sharp contacts with granodiorite

Alteration

-Phyllic (S) pyrite veins with phyllic envelopes and then patchy clay zones 1-4mm wide, envelopes up to 4mm on either side

-Propylitic (1) away from veins mafics altered to chlorite, calcite as veinlets and disseminated

Mineralization

- weakly mineralized, trace chalcopyrite as disseminated blebs and along veinlets

Structure

- moderate carbonate veinlets, common fractures, very minor shear zones

Comments

63.0 - 63.7 m shear zone, 3cm wide, smooth surfaces + clay gouge

78.65 m native copper

Lithology

Dawson Range Granodiorite

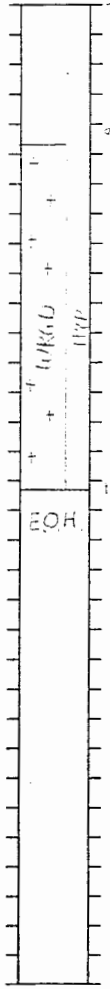
Alteration

Phyllic (S) pyrite veins with quartz sericite envelopes common envelopes up to 1cm on either side of veins, larger envelopes than in diorite

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 337**



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
							Argillic		(3)	patches of mainly kaolinite, chlorite and clays., bleached appearance					argillic clay alteration away from phyllic veins																				
					Mineralization		weakly		mineralized																											
					Structure		- minor		fractures some filled with carbonate, mainly irregular surfaces																											
							- no significant		shear structures																											
					Comments		99.32-	99.5	(2)	Pb-Zn vein, ~80° to C.A vein / shear zone with - more of a shear zone with 1cm patches of galena, sphalerite common carbonate and pyrite in vein. - rooten egg shell under HCl flood ? (CGA 4%, SH 6%, PY 10%, CB					galena + sphalerite																				
S	99.67	122.53	HYP	WRGD	5	W	1	W	0	0	M	0	T	0	T	T	0	0	0	0	0	0	0	0	0	0	W	0	0	0	0	0	M	W	0
					Lithology		Dawson Range Granodiorite with clasts of Dawson Range Diorite and Cut by Quartz Manzonite Dykes - irregular contacts with manzonite dykes from 1cm to 1m in size																															
					Mineralization		weakly		mineralized - traces of chalcopyrite and molybdenite																											
					Structure		- moderately		fractured, some filled with carborate																											
							- no shear		zones																											
					Alteration		phyllic (S)		weak to moderate, less common than above and decreasing in abundance down hole - very minor clay patches near veins																											
							propylitic		(1) weak propylitic alteration, common carbonates as veinlets and disseminated, mafics altered to chlorite, trace of epidote																											

DATE	JUNE 23/94
RIG #	64

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 338	Page	1
Geologist	L. BRONMELAND	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.00	0.61	927383							
0.61	1.52	84							
1.52	3.05	85							
3.05	3.51	86							
3.51	6.71	87							
6.71	10.06	88							
10.06	13.26	89							
—	—	90	STD						94 - CH
13.26	15.85	91							
15.85	18.29	92							
18.29	21.79	93							
21.79	25.00	94							
25.00	28.04	95							
28.04	31.09	96							
31.09	34.14	97							
34.14	37.19	98							
37.19	40.23	99							
40.23	42.98	927400							
42.98	46.02	927601							
46.02	49.07	02							
49.07	52.43	03							
52.43	55.47	04							
55.47	58.52	05							
58.52	61.57	06							
61.57	64.62	07							
64.62	67.36	08							NATIVE CU
67.36	70.10	09							NATIVE CU
—	—	10	STD						94 - SM
70.10	73.15	11							
73.15	76.05	12							
76.05	78.25	13							
78.25	82.45	14							NATIVE CU
82.45	85.65	15							NATIVE CU
85.65	88.09	16							
88.09	92.05	17							
92.05	95.10	18							
95.10	98.15	19							
98.15	99.97	927620							
(EOH)									

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 338**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00					
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

DRILLING DATA			
APPROX. NORTHING			
APPROX. EASTING			
APPROX. ELEVATION			
DATE DRILLING STARTED			
DATE DRILLING ENDED			
TOTAL DEPTH		CASING	
CASING DEPTH		IN	OUT
DEPTH OF HQ-NQ REDUCTION		N/A	
LOGGED BY	L. BROMMELAND		
2ND LOGGER			

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	Mol = Molybdenite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	
To = Tourmaline	Cup = Cuprite	Qz = Quartz	
Ep = Epidote	Bn = Bornite	Cal = Calcite	
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	
Py = Pyrite	Mal = Malachite	Slik = Slickensides	

ALTERATION

7 = Potassic	
6 = Ser.-clay-chlor.	
5 = Phyllic (Sericite)	
4 = Phyllic (K-Spar)	
3 = Argillic (Kaolinite)	
2 = Argillic (Montm.)	
1 = Propylitic	

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	3.51	CAP	OVBR																														
					LITHOLOGY:																														
							OVERBURDEN; GRANODIORITE BOULDERS TO 15 cm IN LENGTH MIXED WITH SAND, CLAY AND SOME HUMUSY MATERIAL. EXTREMELY OXIDIZED.																													
							0.00-0.61: GRANODIORITE FRAGMENTS AVERAGING 4 cm IN SIZE; MINOR SPHAGNUM.																													
							0.61-1.52: GRANODIORITE FRAGMENTS TO 12 cm IN LENGTH. BLACK HUMUSY SOIL WITH MOSS FRAGMENTS. ROCK IS EXTREMELY OXIDIZED WITH ABUNDANT LIMONITE AND MANGANESE OXIDE ON FRACTURE SURFACES.																													
							1.52-3.05: GRANODIORITE FRAGMENTS LESS THAN 6 cm IN LENGTH. MINOR AMOUNTS OF QUARTZ/FELDSPAR SAND. ONE 8 cm ZONE OF JAROSITE CLAY WITH TRACE QTZ GRAINS.																													
							3.05-3.51: GRANODIORITE FRAGMENTS, WHICH EXIBIT QUARTZ/SERICITE VNS, UP TO 15 cm IN LENGTH. MINOR QUANTITIES OF QTZ/FELDSPAR SAND.																													
							NOTE: THE FIRST 1.52 m OF CORE IS PROBABLY FILL MATERIAL USED TO BUILD THE DRILL PAD. BEDROCK APPEARS TO BE PRESENT FROM SURFACE IN THIS HOLE.																													
P	3.51	23.50	CAP	WRGD	3	S	S	S						S							T								M				S	
					LITHOLOGY:																														
							DAWSON RANGE GRANODIORITE																														
					ALTERATION:																														
							ARGILLIC: SUPERGENE CLAY ALTN + FELDSPARS TO CLAY																														
							PHYLLIC: STRONG PHYLLIC ALTN; QTZ/SERICITE VEIN SELVAGES WHICH ARE TEXTURE DESTRUCTIVE																													

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 338**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
S	23.50	95.00	SUS	WRCD	5	5	7	W	0	0	0	0	0	W	1.5	0	.2	T	0	0	0	0	T	0	.1	0	S	0	0	S	0	0	0	M	T

MINERALIZATION:
NO VISIBLE MOLYBDENUM MINERALIZATION. TRACE QUANTITIES OF MALACHITE STAINING NOTED

STRUCTURE:
STRONGLY FRACTURED ROCK

LITHOLOGY:
DAWSON RANGE GRANODIORITE WITH XENOLITHS OF DAWSON RANGE DIORITE IN VARIABLE LENGTH. ALTERATION OVERPRINT MAKES IDENTIFICATION OF ROCK PROTOLITH EXTREMELY DIFFICULT IN SECTIONS

ALTERATION:
PHYLLIC: ROCK IS DOMINATED BY PYRITE VNS WITH TEXTURE DESTRUCTIVE QUARTZ SERICITE SELVAGES, PYRITE VEINS/VEINLETS AND PERVASIVE SILICIFICATION. FREQUENT HEMATITE STAINING GIVES THE ROCK A PINK COLOUR IN SECTIONS
POTASSIC: K-SPAR CONCENTRATED ALONG FRACTURES - THIS IS RELATIVELY RARE DUE TO INTENSITY OF THE PHYLLIC ALTERATION

MINERALIZATION:
CHALCOCITE COATING PYRITE ON FRACTURES AND DISSEMINATIONS. NATIVE COPPER NOTED ON SEVERAL FRACTURE SURFACES - SEE NOTES BELOW. MOLYBDENITE AND CHALCOPYRITE WERE NOT OBSERVED

STRUCTURE:
WEAKLY TO MODERATELY FRACTURED ROCK

COMMENTS:
@ 36.00 - 38.00 m: DIORITE XENOLITH.
@ 54.00 m: DEPTH OF LIMIT OF OXIDATION; BEYOND THIS POINT MOST PY VNS LACK LIMONITIC SELVAGES
@ 66.00 - 68.50 m: NATIVE COPPER ABUNDANT ON FRACTURE SURFACES.
@ 65.50 - 69.50 m: DIORITE XENOLITHS OBSERVED WITH SLICKENSIDES ON 020° FRACTURES (α C.A.) WHICH INDICATE NORMAL MOVEMENT.
@ 82.00 - 91.00 m: NUMEROUS DIORITE XENOLITHS
@ 80.50 - 82.50 m: NUMEROUS QUANTITIES OF NATIVE COPPER

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 339**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
S	35.00	99.97	HYP	WR1D	5	5	0	0	0	0	0	0	0	0	2	0	T	0	0	0	0	0	T	0	.1	0	S	0	0	M	0	0	0	W	0
	(EOH)				LITHOLOGY:																															
							DAWSON RANGE GRANODIORITE																															
					ALTERATION:																															
							PHYLLIC		STRONG QUARTZ/SERICITE FLOODING.																											
					MINERALIZATION																															
							TRACE CHALCOCITE AND MOLYBDENITE ON FRACTURE SURFACE.																	NIL	VISIBLE											
							INTENSE PYRITE STRINGERS AND VEINS																															
					STRUCTURE																															
							MEDIUM FRACTURED																															

CONFIDENTIAL

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-333 Page 1 of 3

LOGGED BY: T.C. Becker

DATE June 23/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.00	0.61	0.61	0.17	28	0	6	2	no	no	no	no	- fill for pad ?
1	0.61	1.52	0.91	0.38	42	0	6	2	no	no	no	no	- overburden
1	1.52	3.05	1.53	0.42	27	0	6	2	no	no	no	no	- overburden ?
1	3.05	3.51	0.46	0.35	76	0	7	2	3	4	1	3	-
1	3.51	4.11	0.60	0.49	82	0	6	2	3	10	1	3	
1	4.11	4.88	0.77	0.45	58	0	6	2	3	13	1	3	
1	4.88	5.49	0.61	0.52	85	0	6	2	3	6	1	3	
2	5.49	5.79	0.30	0.30	100	0	6	2	3	4	1	3	
2	5.79	6.71	0.92	0.56	61	0	6	2	3	11	1	3	
2	6.71	7.62	0.91	0.71	78	0	7	2	3	13	1	3	-
2	7.62	7.77	0.15	0.15	100	0	6	2	3	14	1	3	
2	7.77	8.23	0.46	0.42	91	0	6	2	3	16	1	2	
2	8.23	8.84	0.61	0.61	100	0	6	2	3	14	1	2	
3	8.84	9.14	0.30	0.20	67	0	6	2	3	6	1	3	
3	9.14	10.06	0.92	0.55	60	0	6	2	3	6	1	3	- 10m 5cm clicky clay core ?
3	10.06	11.43	1.37	1.02	74	0	6	2	2	11	1	3	- weak crumbly clay zones ~ 4cm
3	11.43	11.73	0.30	0.30	100	0	6	2	2	8	1	3	- weak crumbly zone ~ 5 cm
4	11.73	12.34	0.61	0.50	82	0	6	2	3	6	1	3	
4	12.34	13.26	0.92	0.84	91	0	6	2	3	6	1	3	
4	13.26	14.32	1.06	0.94	89	0	6	2	3	14	1	3	
4	14.32	14.93	0.61	0.48	79	0	6	2	3	8	1	3	
5	14.93	15.85	0.92	0.92	100	0	6	2	3	10	1	3	
5	15.85	16.92	1.07	0.72	67	0	7	2	3	12	1	3	
5	16.92	18.29	1.37	1.34	98	0.21	7	2	3	20	1	3	
6	18.29	19.81	1.52	1.46	96	0.76	8	2	3	11	1	3	
6	19.81	20.57	0.76	0.41	54	0	6	2	3	6	1	2	
6	20.57	21.79	1.22	0.97	79	0	7	2	3	15	1	2	
6	21.79	23.47	1.68	1.55	92	0.92	9	2	3	14	1	3	
7	23.47	25.00	1.53	1.53	100	0.93	9	2	3	8	1	3	
7	25.00	26.52	1.52	1.52	100	0.59	9	2	3	14	1	3	
8	26.52	28.04	1.52	1.39	91	0.61	9	2	3	16	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-338 Page 2 of 3

LOGGED BY: T.C. Becker

DATE June 23/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
8	28.04	28.80	0.76	0.69	91	0	9	2	3	10	1	2	
8	28.80	30.33	1.53	1.53	100	0.23	9	2	3	17	1	3	
9	30.33	31.09	0.76	0.61	80	0.17	9	2	3	8	1	3	
9	31.09	32.61	1.52	1.43	94	0.30	9	3	3	12	1	3	
10	32.61	34.14	1.53	1.50	98	0.61	9	3	3	17	1	3	
10	34.14	35.66	1.52	1.52	100	0.70	9	3	4	13	1	3	
10	35.66	37.19	1.53	1.48	97	0.63	9	3	4	11	1	3	
11	37.19	37.64	0.45	0.45	100	0.43	9	3	4	4	1	3	
11	37.64	39.17	1.53	1.53	100	0.82	9	3	4	11	1	3	
11	39.17	40.23	1.06	0.92	87	0.56	9	3	4	6	1	3	
12	40.23	41.45	1.22	0.91	74	0	7	3	4	5	1	3	
12	41.45	42.98	1.53	1.53	100	0	7	3	4	9	1	3	
12	42.98	44.50	1.52	1.52	100	0.43	7	3	4	16	1	3	
13	44.50	46.02	1.52	1.44	95	0.74	8	3	4	9	1	3	
13	46.02	47.55	1.53	1.46	95	0.65	9	3	4	10	1	3	
14	47.55	49.07	1.52	1.52	100	0.50	9	3	4	11	1	3	
14	49.07	50.75	1.68	1.58	94	1.02	10	3	4	9	1	3	
15	50.75	52.43	1.68	1.53	91	1.31	10	3	4	9	1	3	
15	52.43	53.95	1.52	1.52	100	1.13	10	3	4	7	1	3	
15	53.95	55.47	1.52	1.46	96	0.93	10	3	4	6	1	3	
16	55.47	57.00	1.53	1.53	100	0.34	10	3	4	9	1	3	
16	57.00	58.52	1.52	1.46	96	0.71	9	3	4	7	1	3	
17	58.52	60.05	1.53	1.53	100	0.72	9	3	4	7	1	3	
17	60.05	61.57	1.52	1.48	97	1.17	10	3	4	5	1	3	
17	61.57	63.09	1.52	1.52	100	1.18	10	3	4	6	1	3	
18	63.09	64.62	1.53	1.38	90	0.54	9	3	4	6	1	3	
18	64.62	65.84	1.22	1.02	84	0	7	3	4	10	1	3	
19	65.84	67.37	1.53	1.53	100	0.32	9	3	4	11	1	3	
19	67.36	68.58	1.22	1.22	100	0.44	9	3	4	5	1	3	
19	68.58	70.10	1.52	1.52	100	0.92	10	3	4	6	1	3	
20	70.10	71.63	1.53	1.53	100	0.94	10	3	4	4	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-338 Page 3 of 3

LOGGED BY: T.C. Becker

DATE June 23/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
20	71.63	73.15	1.52	1.43	97	1.02	9	3	4	5	1	3	
21	73.15	74.68	1.53	1.26	95	0.50	9	3	4	7	1	3	
21	74.68	76.05	1.37	1.35	98	0.07	10	3	4	8	1	3	
22	76.05	77.72	1.67	1.55	93	1.09	10	3	4	9	1	3	
22	77.72	79.25	1.53	1.53	100	0.07	10	3	4	9	1	3	
22	79.25	80.77	1.52	1.47	96	0.21	10	4	4	7	1	3	
23	80.77	82.45	1.68	1.40	93	0.58	9	4	4	6	1	3	
23	82.45	83.97	1.52	1.52	100	0.63	10	4	4	6	1	3	
24	83.97	85.65	1.68	1.65	98	1.09	9	4	4	5	1	3	
24	85.65	87.17	1.52	1.52	100	0.15	9	4	4	6	1	3	
24	87.17	88.09	0.92	0.85	92	0.23	9	4	4	6	1	3	
25	88.09	89.00	0.91	0.82	90	0.15	9	4	4	3	1	3	
25	89.00	90.53	1.53	1.53	100	0.15	9	4	4	6	1	3	
25	90.53	92.05	1.52	1.45	95	0.48	9	4	4	5	1	3	
26	92.05	93.27	1.22	1.05	86	0.30	9	4	4	6	1	3	
26	93.27	93.88	0.61	0.58	95	0.17	9	4	4	4	1	3	
26	93.88	95.10	1.22	1.15	94	1.07	9	4	4	3	1	3	
26	95.10	96.62	1.52	1.52	100	0.76	10	4	4	4	1	3	
27	96.62	98.15	1.53	1.53	100	1.09	10	4	4	5	1	3	
27	98.15	99.52	1.37	1.23	90	0.51	9	4	4	5	1	2	99.0m 10cm [illegible]
28	99.52	99.97	0.45	0.45	100	0.15	9	4	4	1	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-338 Page 1 of 3

LOGGED BY: T.C. Becker

DATE June 24

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	5.79	6.71	0.92	0.32	35	0	6	3	3	na	na	na	-over burden, rock fragments only
1	6.71	7.92	1.21	0.25	21	0	6	3	3	"	"	"	"
1	7.92	9.45	1.53	0.33	22	0	6	3	3	"	"	"	"
1	9.45	10.67	1.22	0.26	21	0	6	3	3	"	"	"	"
1	10.67	11.89	1.22	0.25	20	0	6	3	3	na	na	na	-overburden
1	11.89	14.33	2.44	2.05	84	0.32	7	3	3	18	1	3	-bedrock starts - mainly diorite breaks easily
2	14.33	15.70	1.37	1.25	91	0.33	7	3	3	6	1	3	- good LI and pyrite
2	15.70	15.85	0.15	0.15	100	0	7	3	3	2	1	3	
2	15.85	17.07	1.52	0.92	60	0	7	3	2	8	1	3	
2	17.07	18.59	1.52	1.04	68	0	6	2	2	6	1	3	
3	18.59	19.51	0.92	0.34	37	0	6	2	2	5	1	3	
3	19.51	19.81	0.30	0.19	63	0	6	2	2	3	1	3	
3	19.81	21.34	1.53	0.64	42	0.17	6	2	2	8	1	3	
3	21.34	21.95	0.61	0.61	100	0	6	2	2	6	1	3	- Limonite weakens along fractures
3	21.95	23.16	1.21	0.82	68	0.18	6	2	2	8	1	3	
4	23.16	23.62	0.48	0.29	60	0	7	3	3	3	1	3	
4	23.62	24.99	1.37	1.05	77	0.15	7	3	3	12	1	3	
4	24.99	25.91	0.92	0.69	75	0	7	3	3	13	1	3	
4	25.91	26.82	0.91	0.45	49	0	7	3	3	8	1	3	
4	26.82	27.74	0.92	0.58	63	0	7	3	3	12	1	3	
4	27.74	28.96	1.22	0.95	78	0.50	8	3	3	9	1	2	- only traces of Limonite after 29m
5	28.96	30.18	1.22	1.11	91	0	8	3	3	16	1	2	
5	30.18	31.09	0.91	0.78	86	0	7	3	3	12	1	3	
5	31.09	31.24	0.15	0.15	100	0	6	3	3	2	1	3	
5	31.24	31.85	0.61	0.42	69	0	6	3	3	6	1	3	
6	31.85	33.22	1.37	0.71	52	0	6	3	3	9	1	3	
6	33.22	34.14	0.92	0.33	36	0	6	3	3	8	1	3	
6	34.14	35.05	0.91	0.72	79	0	6	3	3	10	1	3	
6	35.05	36.27	1.22	0.77	63	0	7	3	3	13	1	3	
7	36.27	37.19	0.92	0.79	86	0.23	7	3	4	8	1	3	
7	37.19	37.80	0.61	0.61	100	0	8	3	4	8	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-338 Page 2 of 3

LOGGED BY: T.C. Becker

DATE June 24/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
7	37.80	39.32	1.52	1.08	71	0.32	7	3	4	12	1	3	- end diorite - larger fragments
7	39.32	40.23	0.91	0.65	71	0.15	7	3	4	5	1	3	
8	40.23	41.76	1.53	1.45	95	0.42	9	3	4	7	1	3	
8	41.76	42.82	1.06	0.85	80	0.20	9	3	4	4	1	3	
8	42.82	44.35	1.53	1.48	96	0.59	8	3	4	5	1	3	
9	44.35	46.02	1.67	1.50	90	0.55	9	3	4	5	1	3	
9	46.02	47.55	1.53	1.45	95	0.99	9	3	4	8	1	3	
9	47.55	49.23	1.68	1.57	93	0.87	9	3	4	7	1	3	
10	49.23	50.75	1.52	1.52	100	0.42	9	3	4	8	1	3	
10	50.75	52.43	1.68	1.41	84	0	7	3	4	11	1	2	- Diorite starts - breaks into fragments
11	52.43	52.73	0.30	0.30	100	0	6	3	4	12	1	2	
11	52.73	53.95	1.22	0.94	77	0.15	9	3	4	10	1	2	
11	53.95	55.17	1.22	1.05	86	0	7	3	4	14	1	2	
11	55.17	56.69	1.52	1.45	95	0.24	9	3	4	10	1	2	
12	56.69	57.91	1.22	0.85	70	0	7	3	4	6	1	2	
12	57.91	59.44	1.53	1.41	92	0.15	9	3	4	14	1	2	
12	59.44	60.05	0.61	0.61	100	0	7	3	4	11	1	2	
12	60.05	61.57	1.52	1.22	80	0	7	3	4	16	1	2	
13	61.57	63.09	1.52	1.52	100	0	9	3	4	10	1	2	
13	63.09	64.62	1.53	1.17	76	0	7	3	4	5	1	2	- 3cm fault zone ~5° to CA discontinuous
14	64.62	67.67	3.05	2.82	92	0	7	3	4	21	1	3	
14	67.67	68.73	1.06	1.02	96	0	8	3	4	11	1	3	
15	68.73	69.19	0.46	0.41	89	0	6	3	4	5	1	3	
15	69.19	70.71	1.52	1.26	83	0.24	6	3	4	7	1	3	
15	70.71	72.23	1.52	1.45	95	0.16	8	3	4	11	1	3	
16	72.23	73.76	1.53	1.35	88	0.56	9	3	4	4	1	3	
16	73.76	75.29	1.53	1.43	94	0	10	3	4	9	1	2	
17	75.29	76.81	1.52	1.45	95	0	8	3	4	8	1	3	
17	76.81	78.33	1.52	1.52	100	0	8	3	4	5	1	2	
17	78.33	79.86	1.53	1.43	93	0.64	10	4	4	4	1	3	- end of diorite - larger fragments
18	79.86	81.38	1.52	1.52	100	0.50	10	4	4	4	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-338 Page 3 of 3

LOGGED BY: T.C. Becker

DATE June 24/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
18	81.38	82.60	1.22	1.02	84	0.20	8	4	4	5	1	3	
18	82.60	83.21	0.61	0.61	100	0	7	4	4	8	1	2	
19	83.21	84.28	1.07	0.94	88	0	8	4	4	7	1	2	
19	84.28	85.65	1.37	1.28	93	0.58	9	4	4	6	1	3	
19	85.65	87.17	1.52	1.52	100	0.43	9	4	4	5	1	3	
20	87.17	88.85	1.68	1.54	92	1.05	10	4	4	3	1	3	
20	88.85	90.37	1.52	1.52	100	1.17	10	4	4	2	1	3	
26	90.37	91.90	1.53	1.53	100	0.67	10	4	4	3	1	2	
21	91.90	93.57	1.67	1.54	92	1.01	10	4	4	3	1	3	
21	93.57	95.10	1.53	1.53	100	0.60	10	4	4	7	1	3	
21	95.10	96.62	1.52	1.52	100	1.45	10	4	4	4	1	3	
22	96.62	98.15	1.53	1.53	100	1.15	10	4	4	4	1	2	
22	98.15	99.67	1.52	1.52	100	1.27	10	4	4	7	1	2	- Zone [illegible] - [illegible] sphalerite
23	99.67	101.19	1.52	1.52	100	1.13	10	4	4	3	1	3	
23	101.19	102.72	1.53	1.53	100	1.00	10	4	4	6	1	3	
23	102.72	104.24	1.52	1.52	100	1.21	10	4	4	2	1	3	
24	104.24	105.46	1.22	1.22	100	0.35	8	4	4	3	1	3	
24	105.46	107.14	1.68	1.60	95	0.84	8	4	4	4	1	2	
24	107.14	108.51	1.37	1.37	100	1.42	10	4	4	3	1	3	
25	108.51	110.18	1.67	1.55	93	1.33	10	4	4	4	1	3	
25	110.18	111.71	1.53	1.47	96	0.98	10	4	5	5	1	2	
26	111.71	113.23	1.52	1.52	100	1.23	10	4	5	3	1	2	
26	113.23	114.91	1.68	1.54	92	1.00	10	4	5	4	1	2	
26	114.91	116.43	1.52	1.52	100	1.25	10	4	5	2	1	3	
27	116.43	117.96	1.53	1.53	100	1.18	10	4	4	3	1	3	
27	117.96	119.48	1.52	1.52	100	1.12	10	4	4	5	1	3	
28	119.48	121.01	1.53	1.53	100	1.33	10	4	4	5	1	2	
28	121.01	122.53	1.52	1.52	100	1.30	10	4	4	2	1	3	

CLIENT INFORMATION:

Pacific Sentinel Gold
P.O. Box 4157
Whitehorse Y.T.
Y1A 3S9
TEL: FAX: 334 9091

COPY TO:

Pacific Sentinel Gold
1020 - 800 W. Pender
Vancouver B.C.
V6C 2V6

GEOLOGIST T.R. Becker
DATE June 25/94
P/O
PROJECT Casino - ET
TOTAL NUMBER OF SAMPLES 45

SAMPLE TYPE CODES

S	SOIL	A	PAN CONCENTRATES
L	STREAM SEDIMENT	H	HEAVY MINERAL CONCENTRATES
R	ROCK CHIPS	C	MILL CONC.
D	DRILL CORE	V	VEGETATION
P	PERCUSSION CUTTINGS	W	WATER
X	PULP	O	OTHER

COARSE REJECT

- ☐ RETURN C.O.D. UPON COMPLETION
- ☐ RETURN C.O.D. AT END OF SEASON
- ☐ SOILS - SAVE +80 MESH FRACTION (Charges will apply)
- ☐ ROCK/CORE - DISCARD COARSE REJECT AFTER 30 DAYS

PULPS

- ☐ RETURN C.O.D. UPON COMPLETION
- ☐ RETURN C.O.D. AT END OF SEASON
- ☐ DISCARD AFTER 90 DAYS
- ☐ LONG TERM STORAGE (Charges will apply)

NOTE: See reverse side for Chemex policy on storage of pulps and coarse reject.

Chemex Labs

NORTH VANCOUVER, B.C. TEL. (604) 984-0221 FAX. (604) 984-0218
MISSISSAUGA, ON TEL. (905) 624-2806 FAX. (905) 624-6163
THUNDER BAY, ON TEL. (807) 475-3329 FAX. (807) 475-9196
ROUYN, PQ TEL. (819) 797-1922 FAX. (819) 797-0106
CHIANG MAI, THAILAND TEL. (053) 214652 FAX. (053) 214652
SPARKS, NV TEL. (702) 356-5395 FAX. (702) 355-0179
ELKO, NV TEL. (702) 738-2054 FAX. (702) 738-1728
BUTTE, MT TEL. (406) 494-3633 FAX. (406) 494-3721
TUCSON, AR TEL. (602) 798-3818 FAX. (602) 882-2039
ANCHORAGE, AK TEL. (907) 562-5601 FAX. (907) 562-6502

SPECIAL INSTRUCTIONS

REF. NO.

* Samples require ASA check SO4 analysis
• Total Mo reported as MoS_2
Δ * Note: Pass 100% at pulp through -80 mesh sieve or not roll the rate

☐ **CHECK HERE FOR GOLD RUSH SERVICE**
20 SAMPLES/DAY MAX. CHARGED AT 1.5 X LIST PRICE

PRESS FIRMLY YOU ARE MAKING TWO COPIES

SAMPLE NUMBER (16 CHARACTERS MAXIMUM)	SPECIFY PREP CODE (SEE REVERSE) OR SAMPLE TYPE CODE CODE	GEO CHEM TRACE LEVEL (ppm)	ASSAY ORE GRADE (%)	PLEASE SPECIFY GOLD ANALYSIS METHOD CODE (SEE REVERSE) Au	OTHER ELEMENTS Ag	As	Sb	Hg	Cu	Pb	Zn	Mo	TRACE TR4	TR7	MULTI ELEMENTS ICP 32	ICP 24	WHOLE ROCK G212	G12	G412
9276215 to 9276255	*		✓	-999					✓			•			✓				
9276266 to 9276305	Δ		✓	999					✓			•			✓				

IF SAMPLES ARE TO BE ANALYZED FOR A COMBINATION OF TRACE AND ASSAY PARAMETERS, USE THE LETTERS T AND A INSTEAD OF CHECK MARKS

WHITE – LAB COPY (include with shipment)
YELLOW – CLIENT COPY

SUMMARY - HOLE 94-339

NORTHING: 54400m
EASTING: 11200m

DATE: June 26, 1994
LOGGED BY: T. C. Becker

This hole was drilled for acid/base accounting information. The hole was drilled entirely in leached cap and no significant copper or molybdenum mineralization was noted. The host rock was granodiorite and the alteration was mainly phyllic (5) with supergene argillic overprint. The core was broken and blocky, but no major structures were noted.

LITHOLOGY:

Overburden extended to 3.05 m. It consists of mainly granodiorite clasts, averaging 5 cm in size, with a minor clay/sand matrix. Residual bedrock may have been encountered from 2.44 to 3.05 m. The hole was entirely in typical Dawson Range Granodiorite.

ALTERATION:

The hole was dominated by phyllic (5) alteration. Characterized by narrow veinlets with quartz/sericite envelopes up to 1 cm on either side and a pale bleached look to the rock. Minor tourmaline occurs as patches and narrow stringers. Argillic clays overprint the entire hole and are likely the result of supergene processes.

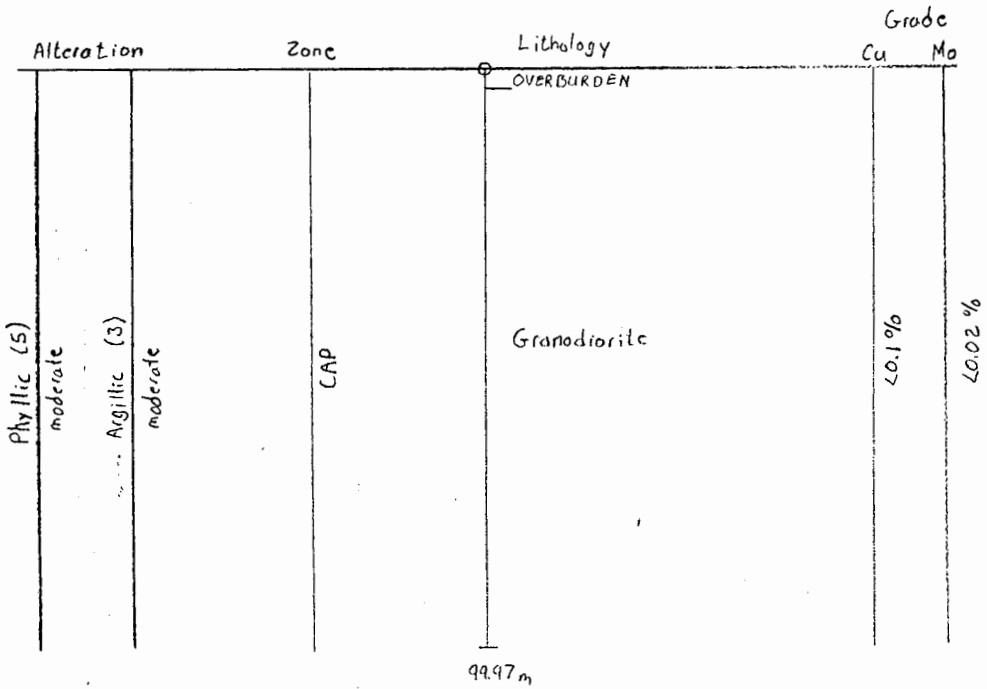
STRUCTURE:

The core was fairly broken and blocky throughout. Fractures were generally planar and irregular with only minor smooth surfaces and no slickensides. The strongest shear structures occurred at 23.5, 48.8 and 64.0 m where narrow clay gouge zones occurred.

MINERALIZATION:

The leached cap extended to the bottom of the hole and no visible copper or molybdenum mineralization occurred. Limonite on fractures and boxwork limonite in veins is common throughout the hole.

94-339



0 10 20 30 m

ABA Hole

Cosino Project

DDH 94-339

Scale 1:1000

54400 N
11200 E

June 26, 1994

TC Becker

DATE	June 25, 1994
RIG #	

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 339	Page	1
Geologist	T.L. Becker	of	

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
1.83	2.44	927666		CAP	OVBR	3	<0.1	<.002	overburden
2.44	3.05	67		"	"	"	"	"	overburden
3.05	6.71	68		"	WRGD	5	"	"	
6.71	9.60	69		"	"	"	"	"	
9.60	12.80	70		"	"	"	"	"	
12.80	15.85	71		"	"	"	"	"	
15.85	18.90	72		"	"	"	"	"	
18.90	21.79	73		"	"	"	"	"	
21.79	25.60	74		"	"	"	"	"	
25.60	28.04	75		"	"	"	"	"	
28.04	31.09	76		"	"	"	"	"	
31.09	34.13	77		"	"	"	"	"	
34.13	37.18	78		"	"	"	"	"	
37.18	40.23	79		"	"	"	"	"	
		80	STD						94-CM
40.23	43.28	81		CAP	WRGD	5	<0.1	<.002	
43.28	46.33	82		"	"	"	"	"	
46.33	50.29	83		"	"	"	"	"	
50.29	52.43	84		"	"	"	"	"	
52.43	55.47	85		"	"	"	"	"	
55.47	58.52	86		"	"	"	"	"	
58.52	61.56	87		"	"	"	"	"	
61.56	64.31	88		"	"	"	"	"	
64.31	67.67	89		"	"	"	"	"	
67.67	70.71	90		"	"	"	"	"	
70.71	73.76	91		"	"	"	"	"	
73.76	76.81	92		"	"	"	"	"	
76.81	79.86	93		"	"	"	"	"	
79.86	82.91	94		"	"	"	"	"	
82.91	85.95	95		"	"	"	"	"	
85.95	89.00	96		"	"	"	"	"	
89.00	92.05	97		"	"	"	"	"	
92.05	94.79	98		"	"	"	"	"	
94.79	97.84	99		"	"	"	"	"	
		927700	STD						94-CM
97.84	-9997	927701		CAP	WRGD	5	<0.1	<.002	

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 339**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1	99.97	-90°				
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

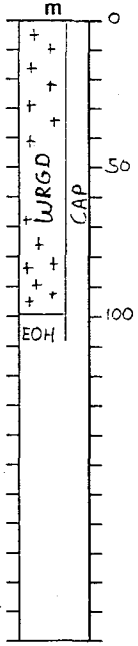
ROCK CODES			
LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION			ALTERATION
Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	7 = Potassic
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	6 = Ser.-clay-chlor.
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	5 = Phyllic (Sericite)
To = Tourmaline	Cup = Cuprite	Qz = Quartz	4 = Phyllic (K-Spar)
Ep = Epidote	Bn = Bornite	Cal = Calcite	3 = Argillic (Kaolinite)
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	2 = Argillic (Montm.)
Py = Pyrite	Mal = Malachite	Slik = Slickensides	1 = Propylitic
		Mol = Molybdenite	

DRILLING DATA		
APPROX. NORTHING	54400	
APPROX. EASTING	11200	
APPROX. ELEVATION	1340	
DATE DRILLING STARTED	June 22	
DATE DRILLING ENDED	June 24	
TOTAL DEPTH	99.97	CASING
CASING DEPTH	3.05	IN (OUT)
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	T.C Becker	
2ND LOGGER		

GRAPHIC LOG

m



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	3.05	CAP	OVBR	3	M	5	M	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OVERBURDEN																														
						0 - 1.83 m			no recovery																										
						1.83 - 2.44 m			Granodiorite clasts in a matrix of sand/clay																												
									average clast size is 3cm, matrix is 30% of unit																												
						2.44 - 3.05 m			Granodiorite clasts, very minor matrix ~ 5%,																												
									mybc residual bed rock																												
P	3.05	99.97	CAP	WRGD	5	M	3	M	0	0	0	T	0	M	0	0	0	0	0	0	0	0	0	0	T	0	0	0	0	0	0	0	0	W	0
					Lithology																														
							Dawson Range Granodiorite - no visible fragments or dykes																														
					Alteration																														
							Phyllic (5) - common phyllic veins with good Quartz-Sericite envelopes up to 1cm on either side of 1-4 mm veins, veins are coated with limonite and box work limonite - very minor hematite along some veins																														
							Argillic (3) - patches of argillic alteration adjacent to phyllic veins mainly soft white kaolinite and other clays with quartz grains - strong bleached appearance to the rock.																														

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 339**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					Mineralization																													
					-no visible copper or molybdenum																													
					-common fracture and vein controlled limonite																													
					in original rock																													
					Structure																													
					-no significant shear or fault structure																													
					-common fractures and phyllic veins																													
					Comments																													
					23.5m	2cm				dark	brown	clay	gouge	zone	with	rock	chips																	
					49.8m	2cm				light	brown	clay	gouge	zone																				
					64.0m	0.5cm				light	brown	clay	gouge	zone																				
					Trace amounts of tourmaline as occational patches or narrow strings throughout the entire hole																													

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-339 Page 1 of 3

LOGGED BY: T.C. Becker

DATE June 29/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	1.83	2.44	0.61	0.17	28	0	6	3	na	na	na	na	overburden
1	2.44	3.05	0.61	0.38	62	0	7	3	na	na	na	na	overburden gravelly residual bedrock
1	3.05	3.66	0.61	0.48	79	0.48	11	3	4	3	1	3	
1	3.66	5.18	1.52	1.46	96	1.00	10	3	4	5	1	3	
1	5.18	6.71	1.53	1.45	95	1.12	10	3	4	6	1	3	
2	6.71	8.23	1.52	1.50	99	0.21	8	3	4	10	1	3	
2	8.23	9.60	1.37	0.78	58	0	7	3	4	5	1	3	
2	9.60	10.67	1.07	0.98	92	0.15	6	3	4	8	1	3	
3	10.67	11.58	0.91	0.79	87	0	7	3	4	6	1	3	
3	11.58	12.19	0.61	0.61	100	0.32	8	3	4	8	1	3	
3	12.19	12.80	0.61	0.51	84	0.26	7	3	4	8	1	3	
3	12.80	14.33	1.53	1.49	97	0	7	3	4	16	1	3	
4	14.33	15.85	1.52	1.38	91	0	7	3	4	26	1	3	
4	15.85	16.46	0.61	0.54	88	0	7	3	4	10	1	3	
4	16.46	17.98	1.52	1.32	87	0	6	3	4	15	1	2	
5	17.98	18.90	0.92	0.92	100	0	6	3	4	18	1	3	
5	18.90	20.12	1.22	1.14	93	0	6	3	4	16	1	3	
5	20.12	21.79	1.67	1.47	88	0.65	8	3	4	16	1	3	
6	21.79	23.32	1.53	1.21	79	0.17	8	3	4	12	1	3	
6	23.32	24.23	0.91	0.91	100	0	7	3	4	9	1	2	- 23.5m - 2cm clay zone
7	24.23	25.60	1.37	1.27	93	0	7	3	4	14	1	3	- 2 cm clay gouge zone (24.8m)
7	25.60	27.28	1.68	1.38	82	0.26	7	3	4	18	1	3	
7	27.28	28.04	0.76	0.64	84	0	8	3	4	8	1	3	
8	28.04	29.57	1.53	1.44	94	0.98	9	3	4	11	1	2	
8	29.57	31.09	1.52	1.52	100	0.45	9	3	4	10	1	3	
9	31.09	32.61	1.52	1.52	100	0.72	10	3	4	9	1	3	
9	32.61	34.13	1.52	1.44	95	0.52	10	3	4	13	1	3	
9	34.13	35.66	1.53	1.48	97	0.67	10	3	4	10	1	3	
10	35.66	37.18	1.52	1.44	95	1.10	10	3	4	9	1	3	
10	37.18	38.71	1.53	1.42	93	0.86	9	3	4	12	1	3	
10	38.71	40.23	1.52	1.47	97	0.36	9	3	4	9	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-339 Page 2 of 3

LOGGED BY: T.C. Becker

DATE June 25/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
11	40.23	41.76	1.53	1.34	88	0.31	8	3	4	20	1	3	
11	41.76	43.28	1.52	1.41	93	0.31	7	3	4	11	1	2	
12	43.28	44.50	1.22	1.15	94	0	7	3	4	8	1	2	
12	44.50	45.72	1.22	1.09	89	0	7	3	4	7	1	2	
12	45.72	46.33	0.61	0.61	100	0	7	3	4	6	1	3	
13	46.33	47.24	0.91	0.91	100	0.19	7	3	4	7	1	3	
13	47.24	48.77	1.53	1.49	97	0.21	7	3	4	16	1	3	
13	48.77	50.29	1.52	1.45	95	0.38	8	3	4	12	1	3	
14	50.29	51.82	1.53	1.46	95	0.66	9	3	4	7	1	3	
14	51.82	52.43	0.61	0.51	84	0	7	3	4	5	1	3	
14	52.43	53.95	1.52	1.52	100	0.38	8	3	4	16	1	3	
15	53.95	55.47	1.52	1.47	97	0.47	8	3	4	14	1	2	
15	55.47	55.93	0.46	0.46	100	0	6	3	4	4	1	3	
15	55.93	57.15	1.22	1.22	100	0	7	3	4	12	1	2	
16	57.15	58.52	1.37	0.92	67	0	7	3	4	10	1	3	
16	58.52	60.05	1.53	1.38	90	0.56	8	3	4	9	1	3	
16	60.05	61.56	1.51	1.47	97	0.52	8	3	4	7	1	3	
17	61.56	62.94	1.38	1.38	100	0	7	3	4	15	1	2	
17	62.94	64.31	1.37	1.25	91	0.18	7	3	4	12	1	3	
17	64.31	65.68	1.37	1.37	100	0.15	8	3	4	12	1	3	
18	65.68	67.67	1.99	1.53	77	0.15	8	3	4	15	1	2	
18	67.67	69.19	1.52	1.46	96	0.18	7	3	4	14	1	2	
19	69.19	70.71	1.52	1.45	95	1.08	10	3	4	8	1	2	
19	70.71	71.32	0.61	0.61	100	0	8	3	4	13	1	3	
19	71.32	72.85	1.53	1.53	100	0.17	8	3	4	15	1	2	
20	72.85	73.76	0.91	0.79	87	0.16	7	3	4	7	1	3	
20	73.76	75.29	1.53	1.53	100	0.83	9	3	4	9	1	3	
20	75.29	76.81	1.52	1.42	93	0.30	8	3	4	13	1	3	
21	76.81	78.03	1.22	1.10	90	0.19	7	3	4	7	1	3	
21	78.03	78.94	0.91	0.91	100	0.30	8	3	4	11	1	3	
21	78.94	79.86	0.92	0.69	75	0	7	3	4	7	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-339 Page 3 of 3

LOGGED BY: T.C Becker

DATE June 25/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
22	79.86	81.23	1.37	0.95	69	0	8	3	4	12	1	2	
22	81.23	82.91	1.68	1.48	88	0.65	8	3	4	8	1	3	
22	82.91	84.43	1.52	1.52	100	0.37	8	3	4	13	1	2	
23	84.43	85.95	1.52	1.52	100	0.79	9	3	4	9	1	2	
23	85.95	87.48	1.53	1.53	100	1.06	10	3	4	9	1	2	
24	87.48	89.00	1.52	1.52	100	1.30	16	3	4	4	1	3	
24	89.00	90.53	1.53	1.53	100	1.25	10	3	4	9	1	3	
24	90.53	92.05	1.52	1.38	91	0.39	9	3	4	14	1	3	
25	92.05	93.57	1.52	1.52	100	0.24	8	3	4	14	1	2	
25	93.57	94.79	1.22	0.98	81	0	7	3	4	9	1	3	
25	94.79	96.32	1.53	1.53	100	0.35	9	3	4	15	1	2	
26	96.32	97.84	1.52	1.52	100	0.76	9	3	4	9	1	3	
26	97.84	99.37	1.53	1.48	97	0.15	9	3	4	11	1	3	
26	99.37	99.97	0.60	0.60	100	0.46	16	3	4	3	1	3	

CLIENT INFORMATION:

Pacific Sentinel Gold Corp.
Box 4127
Whitehorse Y.T.
Y1A 3S9
TEL: FAX: 534-9091

COPY TO:

Pacific Sentinel Gold Corp
1030 - 800 W Pender
Vancouver B.C
V6C 2V6

GEOLOGIST T.C Becker
DATE June 26/94
P/O
PROJECT Casino - EK
TOTAL NUMBER OF SAMPLES 36

SAMPLE TYPE CODES

S SOIL	A PAN CONCENTRATES
L STREAM SEDIMENT	H HEAVY MINERAL CONCENTRATES
R ROCK CHIPS	
D DRILL CORE	C MILL CONC.
P PERCUSSION CUTTINGS	V VEGETATION
X PULP	W WATER
	O OTHER

COARSE REJECT

- ☐ RETURN C.O.D. UPON COMPLETION
- ☐ RETURN C.O.D. AT END OF SEASON
- ☐ SOILS - SAVE +80 MESH FRACTION (Charges will apply)
- ☐ ROCK/CORE - DISCARD COARSE REJECT AFTER 30 DAYS

PULPS

- ☐ RETURN C.O.D. UPON COMPLETION
- ☐ RETURN C.O.D. AT END OF SEASON
- ☐ DISCARD AFTER 90 DAYS
- ☐ LONG TERM STORAGE (Charges will apply)

NOTE: See reverse side for Chemex policy on storage of pulps and coarse reject.

Chemex Labs

NORTH VANCOUVER, B.C.
TEL. (604) 984-0221 FAX. (604) 984-0218
MISSISSAUGA, ON
TEL. (905) 624-2806 FAX. (905) 624-6163
THUNDER BAY, ON
TEL. (807) 475-3329 FAX. (807) 475-9196
ROUYN, PQ
TEL. (819) 797-1922 FAX. (819) 797-0106
CHIANG MAI, THAILAND
TEL. (053) 214652 FAX. (053) 214652
SPARKS, NV
TEL. (702) 356-5395 FAX. (702) 355-0179
ELKO, NV
TEL. (702) 738-2054 FAX. (702) 738-1728
BUTTE, MT
TEL. (406) 494-3633 FAX. (406) 494-3721
TUCSON, AR
TEL. (602) 798-3818 FAX. (602) 882-2039
ANCHORAGE, AK
TEL. (907) 562-5601 FAX. (907) 562-6502

PRESS FIRMLY YOU ARE MAKING TWO COPIES

SPECIAL INSTRUCTIONS

REF. NO.

* Samples Require ABA plus SO4 analysis
* Pass 100% of pulp through #30 mesh sieve
DO NOT ROLL THE PULPS!

☐ CHECK HERE FOR GOLD RUSH SERVICE
20 SAMPLES/DAY MAX. CHARGED AT 1.5 X LIST PRICE

SAMPLE NUMBER (16 CHARACTERS MAXIMUM)	SPECIFY PREP CODE (SEE REVERSE) OR SAMPLE TYPE CODE	GEO CHEM TRACE LEVEL (ppm)	ASSAY ORE GRADE (%)	PLEASE SPECIFY GOLD ANALYSIS METHOD CODE (SEE REVERSE)	OTHER ELEMENTS							TRACE		MULTI ELEMENTS		WHOLE ROCK		
	CODE			Au	Ag	As	Sb	Hg	Cu	Pb	Zn	TR4	TR7	ICP 32	ICP 24	G212	G12	G412
9,2,7,6,6,1 To 9,2,7,7,0,1	*	✓		983										✓				

IF SAMPLES ARE TO BE ANALYZED FOR A COMBINATION OF TRACE AND ASSAY PARAMETERS, USE THE LETTERS T AND A INSTEAD OF CHECK MARKS

WHITE – LAB COPY (include with shipment)
YELLOW – CLIENT COPY

SUMMARY - HOLE 94-340

NORTHING: 53650m
EASTING: 12900m

DATE: June 29, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information in the area of heap leach site #1. It encountered bedrock at a depth of 4.42 m, leached rock to a depth of 6.01 m and hypogene to the end of the hole at 34.14 m. The entire hole was within a porphyritic rock type. The alteration was weak propylitic to a depth of 19.75, followed by weak phyllic to the EOH. The core was moderately broken and no major shear structures were encountered.

LITHOLOGY:

Overburden extended to 4.42 m. From 0.45 to 3.96 m the overburden was a mixture of 20-40 % rock fragments in a matrix of brown clay. From 3.96 to 4.42 m the rock was residual bedrock mixed with minor clay and strong limonite. The rock encountered throughout the hole was a type of porphyry, characterized by a fine grained dark brown matrix with about 60 % phenocrysts. The phenocrysts average 1.5 mm in size and have a maximum size of 8 mm.

Phenocryst description:

5-10 %	biotite, typical dark black biotite books
45 %	plagioclase, slightly green to white in colour, moderately soft, partly replaced by calcite, usually rounded in shape, largest of phenocrysts
Trace	quartz, minor occurrence, more of a coarse matrix
15-20 %	feldspar?, mainly narrow lath up to 3 mm in size, white coloured, soft,

ALTERATION:

The hole is dominated by weak propylitic alteration to a depth of 19.75 m, followed by weak phyllic to EOH. A weak zone of supergene clays over prints the propylitic alteration to a depth of 6.01 m. The propylitic alteration is characterized by a fresh appearance to the rock, common calcite as both veins and disseminations, and slightly altered plagioclase phenocrysts. The weak phyllic alteration causes a bleached appearance to the rock and the destruction of all k-feldspar in the matrix.

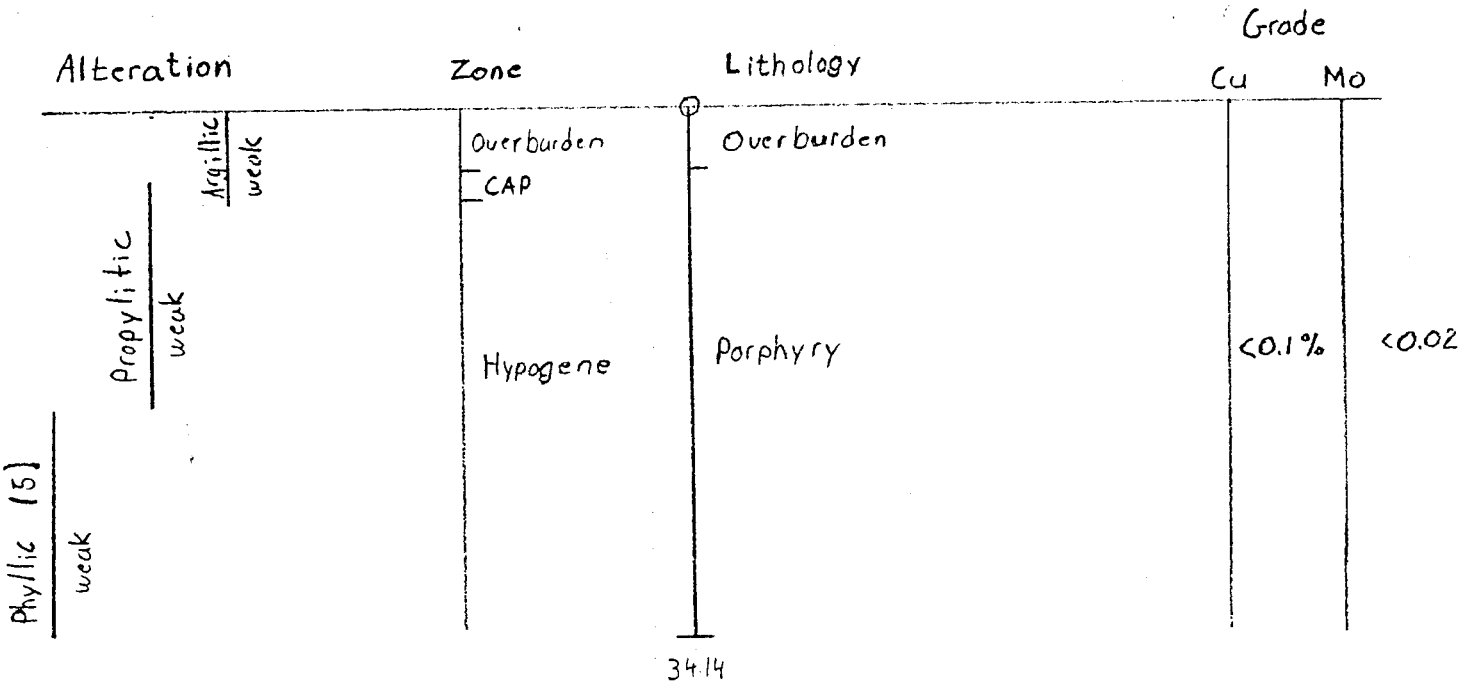
STRUCTURE:

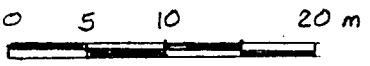
The core was moderately broken and blocky throughout. Near the bottom of the hole there were some narrow breccia zones with granodiorite clasts in a calcite matrix, average thickness was 1.5 cm.

MINERALIZATION:

No visible sulphides were encountered in the hole; however, in the overburden from 2.13 to 3.96 m there appears to be a thin chalcocite coating on some of the rock fragments.

94-340





Geotech Hole

Casino Project

94-340

Scale 1:500

53650 N
12900 E

June 29, 1993

T.C. Becker

DATE	June 29, 1994
RIG #	#6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 340	Page	
Geologist	T.C. Baker	of	

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.00	4.42	/		CAP	OVBR				Overburden
4.42	7.62	92.7731		CAP	PPDX	1	<0.1	<0.02	
7.62	9.75	32		HYP	"	"	"	"	
9.75	12.80	33		"	"	"	"	"	
12.80	15.85	34		"	"	"	"	"	
15.85	18.90	35		"	"	"	"	"	
18.90	21.95	36		"	"	5	"	"	
21.95	24.99	37		"	"	"	"	"	
24.99	28.04	38		"	"	"	"	"	
28.04	31.09	39		"	"	"	"	"	
—	—	40	STD	—	—	—	—	—	94-H1
31.09	34.14	41		HYP	"	5	<0.1	<0.02	
	EOH								

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 340**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

DRILLING DATA		
APPROX. NORTHING	53650	
APPROX. EASTING	12900	
APPROX. ELEVATION	950	
DATE DRILLING STARTED	June 23	
DATE DRILLING ENDED	June 26	
TOTAL DEPTH	341.4	CASING
CASING DEPTH	3.66	IN (OUT)
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	T.C. Becker	
2ND LOGGER		

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__ 6	Latite	QM__ 3	Quartz Monzonite
LP__ 6/	Porphyritic Latite	QP__ 3p	Early Patton Porphyry
M___	Microbreccia	QX__ 3x	Hornolithic Intrusion Breccia
PP__ 5	Patton Porphyry	WR__ 2	Dawson Range Batholith
IX__ 4	Heterolithic Intrusion Breccia	YM__ 1	Yukon Group Metamorphic

MINERALIZATION

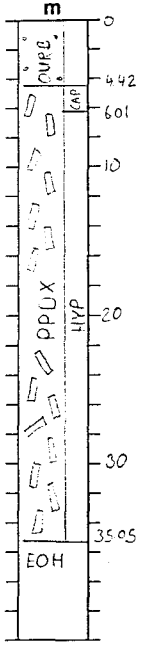
Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc
To = Tourmaline	Cup = Cuprite	Qz = Quartz
Ep = Epidote	Bn = Bornite	Cal = Calcite
Lim = Limonite	Sft = Sulphates	Frac = Fracturing
Py = Pyrite	Mal = Malachite	Slik = Slickensides

Mol = Molybdenite

ALTERATION

7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

GRAPHIC LOG



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.
P	0.00	442	CAP	OVBR	3	M		
					OVERBURDEN			
						0.00 - 0.45		
						0.45 - 2.13		
						2.13 - 3.96		
						3.96 - 442		
C	442	601	CAP	PPDX	3	W	1	W
					LITHOLOGY			
							Porphyry	

SECONDARY MINERALS (INTENSITY)

P or S	Anh	Gyp	Cb	To	Ep	Lim
P	0	0	0	0	0	M
	Black organic rich clays within roots and fine rock fragments are common					
	grades from dark to light brown clay with 10-20% rock fragments					
	average 2.5 cm in size, maximum size 3 cm					
	medium brown colored clays and sand with 40% rock fragments 2 cm					
	average size of rock fragments decreases to 1 cm					
	- common clock cavities or rock fragment depressions to be dialocite					
	- biotite common as grains in clay					
	residual bed rock, strongly weathered, strong limonite coating, no clays after 40m, all the same rock type, average fragment size 2 cm					
C	442	601	W	0	0	M
	? - appears as fine grained, K-spar rich, dark cream to black matrix, very fine grained, K-spar rich, dark cream to black					
	~30-40% - phenocrysts - maximum phenocryst ~8mm in average 1.5 mm					
	60-70% - angular crystal generally the same size, very little variation in					
	Composition					

MINERALIZATION (PERCENT)

P or S	Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn
P	0	0	?	0	0	0	-	-	-	-	0	0
C	0	0	0	0	0	0	-	-	-	-	0	0

STRUCTURE - VEINS (INTENSITY)

P or S	Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0	0	0	0	-	-	-	-	-
	rock fragments								
	rock fragments 3 cm								
	rock fragments								
	dialocite								
	clays after								
C	0	0	0	1	0	C	W	M	0
	clock cavities to								
	15 mm								
	variation in								

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 340**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
							5%	of rock	is	Biotite	phen				rycts	ma	imu	1.5	m	in	size	dark	blo	k	weakly	altered								
							15-20%		plagio	close ?	phenc				crysts		mainly		narrow		laths		up	to	3	mm	long,	white	colored					
									Possible		align	mer			of		phenocrysts																	
							~15%		plagio	clast	phenocrysts				slightly		green / white		color,		moderately		soft											
										partly	replaced				by		calcite				larger		aro	und		compared	to	above						
							5%		minor	quartz	grains,				more		of a		coarse		matrix		in		some		areas						
					ALTERATION																													
					Argillic - weak to moderate supergene										common		alteration,				moderate				limonite		coating							
					Propylitic - weak propylitic -												k-spar		in		matrix,		biotite				fresh,		plagio		close		weakly	
									altered, common						calcite																			
					MINERALIZATION																													
					no visible				copper or molyb						denum		mineralization																	
					STRUCTURE																													
					moderately				broken		no		major				structures																	
S	6.01	19.75	HYP	PPDX	1	W			o	o	M	o	o	T	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	M	M	o
					LITHOLOGY																													
					as above - porphyry																													
					ALTERATION - weak propylitic - almost fresh except for calcite in matrix and slight alteration																													
					of plagioclase																													
					MINERALIZATION																													
					no visible				copper or molybdenum																									
					STRUCTURE																													
					- moderately				broken, no major structures																									
					- moderate calcite veinlets, average 1mm wide, maximum width 3mm																													
					filled with calcite																													
					Contact - lower contact is sharp and appears to be an alteration front																													

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 340**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens
S	19.75	34.14	HYP	FPDX	S	W		

LITHOLOGY

as above - porphyry, except with different alteration.

ALTERATION

Phyllic (S) - pervasive weak phyllic alteration, bleached appearance to rock - very light grey, fairly soft white clay, no stable biotite in matrix, plagioclase phenocrysts altered to soft green clays, K-spar phenocrysts

MINERALIZATION

no visible copper or molybdenum, no visible pyrite

STRUCTURE

moderately broken core, no major structures, common calcite veinlets maximum width 7mm, average width 2mm - weak breccia zone at 25.75m, 3cm zone of calcite matrix and angular fragments of wall rock - weak zones up to 1cm of calcite matrix and minor wall rock fragments.

SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim
0	0	T	0	0	0

MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn
0	0	0	0	0	0	0	0	0	0	0	0

STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
0	0	0	0	0	0	M	M	0

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-340 Page 1 of 1

LOGGED BY: K. Delau

DATE June 29

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.0	0.91	0.91	0.86	95	0	NA	NA	NA	NA	NA	NA	OVERBURDEN
1	0.91	2.13	1.22	0.21	17	0	NA	NA	NA	NA	NA	NA	
1	2.13	3.66	1.53	0.49	32	0	NA	NA	NA	NA	NA	NA	
1	3.66	3.96	0.30	0.22	73	0	NA	NA	NA	NA	NA	NA	
1	3.96	4.42	0.46	0.39	85	0	NA	NA	NA	NA	NA	NA	
1	4.42	5.03	0.61	0.58	95	0	9	2	6	7	2	3	
2	5.03	5.49	0.46	0.49	107	0	5	2	6	13	1	3	
2	5.49	7.62	2.13	1.79	84	0.17	7	2	6	33	1	3	
2-3	7.62	9.14	1.52	1.36	89	0.71	10	2	6	10	1	3	
3	9.14	9.75	0.61	0.69	113	0.39	9	2	6	7	1	2	
3	9.75	11.28	1.53	1.39	91	0.70	10	2	6	13	1	2	
3	11.28	12.19	0.91	0.43	47	0	6	2	6	12	1	3	
3-4	12.19	12.80	0.61	0.36	59	0	6	2	6	20	1	2	
4	12.80	14.33	1.53	0.87	57	0	6	2	6	25	1	2	
4	14.33	15.85	1.52	1.19	78	0.17	7	2	6	21	1	2	
4-5	15.85	18.90	3.05	2.65	88	1.30	9	2	6	27	1	2	
5	18.90	20.27	1.37	1.34	98	0.36	7	2	6	18	1	2	
5-6	20.27	21.95	1.68	1.40	83	0.48	9	2	6	15	1	2	
6	21.95	23.47	1.52	1.37	90	0.70	7	2	6	19	1	2	
6-7	23.47	24.99	1.52	1.32	87	0.35	7	2	6	21	1	3	
7	24.99	26.52	1.53	1.41	92	0.20	7	2	6	22	1	2	
7	26.52	28.04	1.52	1.42	93	0.62	9	2	6	16	1	2	
7-8	28.04	29.57	1.53	1.50	98	0.62	10	2	6	15	1	2	
8	29.57	31.09	1.52	1.38	91	1.03	12	2	6	8	1	3	
8	31.09	32.61	1.52	1.55	102	0.31	9	2	6	18	1	3	
9	32.61	34.14	1.53	1.33	87	0.70	10	2	6	9	1	2	
		EOH											

SUMMARY - HOLE 94-341

NORTHING: 54600m
EASTING: 11500m

DATE: June 28, 1994
LOGGED BY: T. C. Becker

This hole was drilled for acid/base accounting information. It encountered 3.96 m of overburden, a barren leached cap, a fairly well mineralized supergene sulphide zone and the hole ended in a 5.5 m pyrite vein. The host rock for the entire hole was Dawson Range Granodiorite. The alteration was moderate to strong phyllic (5) with a supergene argillic overprint. The core was fairly broken with minor narrow shear structures.

LITHOLOGY:

Overburden extended to 3.96 m. From 0.00 to 2.44 m the overburden was composed of 60-70% brown clay with 30-40% granodiorite fragments. Weathered residual bedrock extended from 2.44 to 3.96 m. From 3.96 to 69.45 m the host rock was the typical granodiorite. The last part of the hole was in a pyrite vein.

ALTERATION:

The hole is dominated by phyllic (5) alteration. Quartz/sericite occurs as an alteration envelope around narrow quartz/pyrite veinlets. The phyllic alteration is strongest where the vein intensity increases and is very strong at the bottom of the hole where it occurs with the large pyrite vein. Argillic alteration is strongest up to the bottom of the leached cap where it is associated with supergene leaching. Within the supergene sulphide zone the argillic alteration occurs as irregular patches between the phyllic vein envelopes.

STRUCTURE:

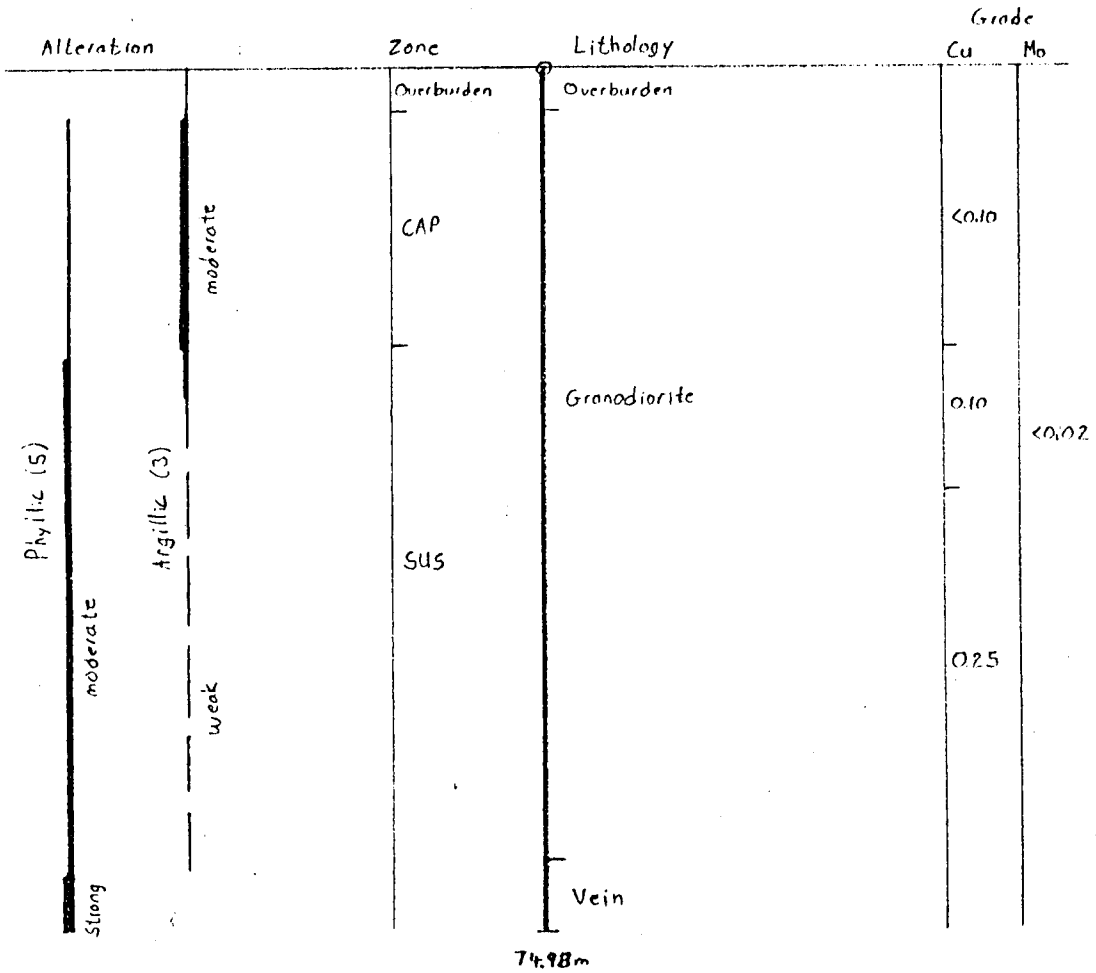
The core was moderately broken and blocky throughout, with only minor slickensides. Narrow weak shear structures occurred at 15.3, 17.5 and 21.3 m. At the bottom of the hole a 5.5 m pyrite vein was noted.

MINERALIZATION:

The leached cap extended to 25.3 m and contained no visible sulphides. The supergene sulphide zone extended to the bottom of the hole and was moderately well mineralized. From 25.3 m to 60 m the chalcocite occurred as a coating on both disseminated and vein pyrite. After 60 m it occurred mainly as fracture coatings and along pyrite veins.

The large pyrite vein extended from 69.45 m to EOH and contained about 25 % pyrite. The pyrite occurred mainly as blebs up to 2 cm in size in the fine quartz/sericite/tourmaline matrix and occurred less commonly as fine to coarse disseminations in the granodiorite clasts within the vein. Chalcocite was common within the vein as coatings on pyrite and fractures.

94-341



0 5 10 20m

NBA Hole

Casino Project
94-341
Scale 1:500
54600 N
11500 E
June 28, 1994
T.C. Becker

DATE	June 26, 1994
RIG #	4

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 341	Page	
Geologist	T.C Becker	of	

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
1.83	2.13	927702		CAP	OVBR	3	<0.10	<0.02	overburden - whole core sample
2.13	2.44	03		"	"	"	"	"	overburden " " "
2.44	3.05	04		"	"	"	"	"	overburden " " "
3.05	3.96	05		"	"	"	"	"	overburden " " "
3.96	6.71	06		"	WRGD	"	"	"	
6.71	9.75	07		"	"	"	"	"	
9.75	12.50	08		"	"	"	"	"	
12.50	15.85	09		"	"	"	"	"	
15.85	18.90	10		"	"	"	"	"	
18.90	21.34	11		"	"	"	"	"	
21.34	24.54	12		"	"	"	"	"	
24.54	27.43	13		SUS	"	5	0.10	"	
27.43	30.63	14		"	"	"	"	"	
30.63	33.53	15		"	"	"	"	"	
33.53	36.88	16		"	"	"	"	"	
36.88	39.93	17		"	"	"	0.25	"	
39.93	42.82	18		"	"	"	"	"	
42.82	46.33	19		"	"	"	0.30	"	
—	—	20	STD	—	—	—	—	—	94 - SM
46.33	49.38	21		SUS	WRGD	5	0.20	<0.02	
49.38	52.43	22		"	"	"	"	"	
52.43	55.02	23		"	"	"	0.25	"	
55.02	58.22	24		"	"	"	"	"	
58.22	60.96	25		"	"	"	0.20	"	
60.96	64.01	26		"	"	"	"	"	
64.01	67.06	27		"	"	"	"	"	
67.06	69.49	28		"	"	"	0.25	"	
69.49	72.54	29		"	VEIN	"	0.35	"	- pyrite vein
72.54	74.98	927730		"	"	"	0.30	"	- pyrite vein
	EOH								

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER 94 - 341

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

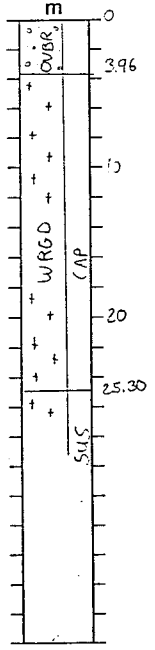
MINERALIZATION			ALTERATION
Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	7 = Potassic
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	6 = Ser.-clay-chlor.
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	5 = Phyllic (Sericite)
To = Tourmaline	Cup = Cuprite	Qz = Quartz	4 = Phyllic (K-Spar)
Ep = Epidote	Bn = Bornite	Cal = Calcite	3 = Argillic (Kaolinite)
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	2 = Argillic (Montm.)
Py = Pyrite	Mal = Malachite	Slik = Slickensides	1 = Propylitic
		Mol = Molybdenite	

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES			
LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

DRILLING DATA			
APPROX. NORTHING	54600		
APPROX. EASTING	11500		
APPROX. ELEVATION	1195		
DATE DRILLING STARTED	June 24		
DATE DRILLING ENDED	June 25		
TOTAL DEPTH	74.98	CASING	
CASING DEPTH	2.44	IN	(OUT)
DEPTH OF HQ-NQ REDUCTION			
LOGGED BY	T.C Becker		
2ND LOGGER			

GRAPHIC LOG



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	MAJOR Intens.	MINOR Type	MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.0	3.96	CAP	OVBR	3	W			0	0	0	0	0	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OVERBURDEN																														
					0.00 - 1.83 m				mainly light brown clay with minor rock chips - at 1m is a mass layer																												
					- Some of this is likely fill - near bottom appears to be better overburden																														
					1.83 - 2.13 m				~ 70% light brown / grey clay / sand with 30% rock chips, averaging 1cm in size																												
					- rock chips appear to be granodiorite																														
					2.13 - 2.44 m				light brown clay with 40% granodiorite fragments up to 3cm in size																												
					- appears to be overburden with granodiorite fragments in clay matrix																														
					2.44 - 2.74 m				~ 30% brown clay, 70% <5mm sand like grains, - decomposed granodiorite																												
					- maybe the top of residual bedrock																														
					2.74 - 3.05 m				rounded granodiorite grains, average 1cm in size, trace of clay																												
					3.05 - 3.96 m				rounded granodiorite grains, average 2cm in size - trace of clay																												
					- maybe broken, weathered bedrock																														
P	3.96	25.30	CAP	WRGD	3	M	5	M	0	0	0	T	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0
					LITHOLOGY																														
					- typical Dawson Range Granodiorite																														
					- at 9.80 m a 3 cm dyke cuts the core possibly a narrow porphyry																														
					ALTERATION																														
					Argillic - strong supergene clays, strong kaolinite alteration of feldspars																														

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 341**

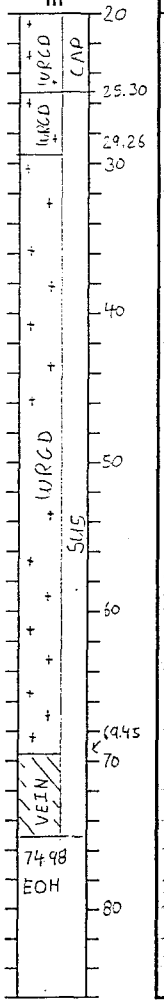
GRAPHIC LOG (m): 20 — WRGD - CAP — 25.30 — WRGD + SUS — 29.26 — 30

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
							phyllic - moderate quartz		phyllic		veins, with good				enveloped bxwork	of	Quartz/ limonite				ser and	cite limonite			up	to 4mm along coatings								
					MINERALIZATION																															
							no visible - moderate mainly		Cu or Mo		mineralization in the cap limonite coating on all fractures. Some fractures with															good bxwork limonite								
					STRUCTURE																															
							moderately fractured rock																													
		15.3					- 16.1 m		a zone of dyke		10cm with			structures crushed sheared	cuts core axis at ~ 5° - opp ear in a clay matrix grano diorite contacts										oc		to be filled a breccia								
		17.5					- 17.95 m		a zone					moderately	sheared granodiorite										-	with	some clay matrix								
		21.34					- 21.7 m		a zone clay			and		of minor	fractured and sheared granodiorite with tourmaline between granodiorite											fragments	an infilling matrix of								
S	25.30	29.26	SUS	WRGD	S	M	3	M	o	o	o	T	o	W	0.2	T	ac	s	o	o	o	o	o	o	o	o	T	o	o	o	o	o	o	M	o
					LITHOLOGY																															
							- typical		Casson		Range			Granodiorite																					
					ALTERATION																															
							Phyllic (S)		mainly		moderate			associated with						Quartz/Sericite				envelopes		but occasionally as								
							Argillic (3)		a pervassive intense texturely destructive fabric of Quartz/Sericite still supergene clay overprint																													
					MINERALIZATION																															
							- weak chalcocite coating pyrite, mainly as disseminations																															
							- minor pyrite		along veins, still weak limonite																													
					STRUCTURE																															
							moderately fractured, no								shear structures																					

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 341**



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
S	29.26	69.45	SUS	WRCD	S	M	3	W	o	o	o	T	o	T	10	T	0.2	o	T	o	o	o	o	o	o	o	M	o	o	o	o	o	o	M	o
					LITHOLOGY																														
					- typical Dawson Range Granodorite																														
					ALTERATION																														
					phyllic (5)				mainly moderate vein controlled but pervasive alteration where veins are																												
									closer together																										
					argillic (3)				weak supergene argillic clays - only a trace of limonite / supergene clay after 49.5m																												
									down hole patches of argillic clay are likely associated with phyllic veins																												
					MINERALIZATION																														
							common chalcocite coating pyrite and fractures - common coating disseminated pyrite grains																														
							up to 6m then only coating pyrite along veins																														
							possible covellite or bornite at 63.5m																														
							- pyrite veins up to 2cm wide but average only 4mm																														
							trace of chalcopyrite and molybdenite																														
					STRUCTURE																														
					moderately fractured rock, no clear structures																														
P	69.45	74.98	SUS	VEIN	S	S			o	o	o	M	o	T	25	T	0.4	o	o	o	o	o	o	o	o	o	S	o	o	M	o	o	o	W	o
					LITHOLOGY																														
					Vein zone																														
							69.45 - 74.15m		crumbly fractured zone with strong chalcocite coating pyrite and replacing																												
							most of the rock		good boxwork limonite, minor rock clasts in vein																												
							74.15 - 73.76m		strong vein zone 30-40% pyrite with tourmaline, fine sulphides and																												
							chalcocite as the matrix with clasts of strong to intensely phyllic altered																														
							granodiorite. minor boxwork limonite																														
							73.76 - 74.98m		intense zone of phyllic alteration with a stockwork of narrow																												
							more of an		quartz pyrite, tourmaline, chalcocite veinlets than a true vein as above																												
					ALTERATION																														
					strong to		intense phyllic		alteration with quartz flooding along the vein																												

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 341**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					MINERALIZATION																														
					- 25% of unit is				pyrite, mainly						as pyrite blebs up to 2cm in size in												the Quartz / tourmaline							
					matrix				or as disseminations						granodiorite clasts																				
					- chalcocite is				common as a coating						on pyrite, fractures and in vein												matrix								
					- trace of chalcopyrite and molybdenite as disseminations																														
					STRUCTURE																														
					- no fractures within vein only										breaks within longer pieces																				
					- after 73.76 upper and				some fractures exist lower contacts maybe						at 25° to core axis																				

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-341 Page 1 of 3

LOGGED BY: K. Delau

DATE June 28

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	1.83	2.13	0.30	0.30	100	0	1	0	1	NA	NA	NA	overburden
1	2.13	2.44	0.31	0.15	48	0	13	3	2	NA	NA	NA	overburden
1	2.44	2.74	0.30	0.19	63	0	1	1	2	NA	NA	NA	over burden
1	2.74	3.05	0.31	0.11	35	0	3	2	2	NA	NA	NA	over burden
1	3.05	3.96	0.91	0.21	23	0	3	2	2	NA	NA	NA	over burden
1-2	3.96	4.57	0.61	0.33	54	0	6	2	4	13	1	3	
2	4.57	5.18	0.61	0.58	95	0	6	2	4	20	1	3	
2	5.18	5.94	0.76	0.48	63	0	6	2	4	25	1	3	
2	5.94	6.71	0.77	0.34	44	0	5	1	2	15	1	4	
2-3	6.71	7.92	1.21	0.71	59	0	6	2	4	25	2	3	
3	7.92	9.14	1.22	0.87	71	0	6	2	4	25	1	3	
3	9.14	9.75	0.61	0.36	59	0	6	2	4	20	1	2	
3	9.75	10.06	0.31	0.43	139	0.16	7	2	4	7	1	3	
3-4	10.06	11.58	1.52	1.27	84	0.58	7	2	4	19	1	4	
4	11.58	12.50	0.92	0.69	75	0	6	2	4	30	1	3	
4-5	12.50	13.87	1.37	1.14	83	0	6	2	4	50	1	3	
5	13.87	14.94	1.07	0.95	89	0	6	2	4	30	1	3	
5	14.94	15.85	0.94	0.65	69	0	6	2	4	23	2	3	
5-6	15.85	17.07	1.22	0.95	78	0	6	2	4	35	1	3	
6	17.07	17.68	0.61	0.59	97	0	6	2	4	17	1	3	
6	17.68	18.90	1.22	0.53	43	0	5	2	4	25	3	3	
6-7	18.90	20.12	1.22	0.81	66	0.15	6	2	4	30	2	3	
7	20.12	21.34	1.22	1.01	83	0	6	2	4	29	1	3	
7	21.34	22.86	1.52	0.92	61	0	6	2	4	20	2	3	
7-8	22.86	24.54	1.68	1.33	79	0	7	2	4	23	1	2	
8	24.54	25.91	1.37	0.96	70	0	6	2	4	25	1	3	
8-9	25.91	27.43	1.52	1.18	78	0.21	6	2	4	26	1	3	
9	27.43	28.35	0.92	0.69	75	0	6	2	5	24	1	3	
9	28.35	29.26	0.88	0.78	89	0	6	2	5	25	1	3	
9-10	29.26	30.63	1.37	0.85	62	0	6	2	5	28	1	3	
10	30.63	31.85	1.22	0.74	61	0	6	2	5	25	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-341 Page 2 of 3

LOGGED BY: K. Delau

DATE June 28

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
10	31.85	33.53	1.68	1.20	71	0.20	6	2	5	28	1	2	
10-11	33.53	34.59	1.06	0.55	52	0	6	2	5	17	1	2	
11	34.59	35.66	1.07	0.60	56	0	6	2	5	26	1	3	
11	35.66	36.88	1.22	0.59	48	0	6	2	5	13	1	3	
11	36.88	37.49	0.61	0.51	84	0	7	2	5	10	1	2	
11-12	37.49	39.01	1.52	1.28	84	0.23	7	2	5	24	1	3	
12	39.01	39.92	0.91	0.64	70	0.22	7	2	5	12	1	2	
12	39.92	41.30	1.38	0.97	70	0	7	2	5	18	1	2	
12-13	41.30	42.82	1.52	1.07	70	0	6	2	5	23	1	2	
13	42.82	43.74	0.92	0.81	88	0	6	2	5	20	1	2	
13-14	43.74	45.11	1.37	1.21	88	0.18	7	2	5	21	1	3	
14	45.11	46.33	1.22	0.96	79	0	7	2	5	19	1	2	
14	46.33	47.85	1.52	1.30	86	0.58	9	2	5	16	1	3	
14-15	47.85	49.38	1.53	1.31	86	0.47	7	2	5	23	1	3	
15	49.38	50.90	1.52	1.37	90	0.38	7	2	5	19	1	2	
15	50.90	52.43	1.53	1.33	87	0	7	2	5	21	1	3	
16	52.43	53.95	1.52	1.45	95	0.38	9	2	5	19	1	2	
16	53.95	54.41	0.46	0.43	93	0.33	7	2	5	8	4	3	
16	54.41	55.02	0.61	0.60	98	0.16	7	2	5	10	4	3	
16-17	55.02	56.69	1.67	1.33	80	0.34	7	2	5	18	1	2	
17	56.69	58.22	1.53	1.34	88	0.39	7	2	5	23	1	3	
17	58.22	59.74	1.52	1.42	93	0.87	10	2	5	13	1	2	
17-18	59.74	60.96	1.22	0.97	80	0.38	9	2	5	11	1	2	
18	60.96	62.48	1.52	1.48	97	0.62	10	2	5	12	1	2	
18-19	62.48	64.01	1.53	1.48	97	0.51	9	2	5	18	1	3	
19	64.01	65.53	1.52	1.45	95	0.86	9	2	5	15	1	2	
19	65.53	67.06	1.53	1.49	97	0.64	9	2	5	15	1	2	
19-20	67.06	68.73	1.67	1.51	90	0.69	10	2	5	14	1	2	
20	68.73	69.49	0.76	0.95	125	0.34	10	2	5	9	2	2	
20	69.49	71.02	1.53	0.76	50	0	6	2	5	20	1	4	
20-21	71.02	72.54	1.52	1.46	96	0.72	10	2	5	14	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-341 Page 3 of 3

LOGGED BY: K. Delau

DATE June 28

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
21	72.54	73.76	1.22	1.04	85	0.66	10	2	5	10	1	3	
21	73.76	74.98	1.22	1.04	85	0.36	7	2	5	15	1	3	
		EOH											

SUMMARY - HOLE 94-342

NORTHING: 53550m
EASTING: 13100m

DATE: June 30, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information in the area of heap leach site #1. It encountered bedrock at a depth of 3.66 m and hypogene to the end of the hole at 34.14 m. The entire hole was within typical Dawson Range Granodiorite. The alteration was mainly weak propylitic and weak agrillic (3). The core was weakly broken and no major shear structures were encountered.

LITHOLOGY:

Overburden extended to 3.36 m. From 0.00 to 1.52 m the overburden was 60-70 % light grey clay and rock fragments and from 1.53 to 3.35 m it was 100 % sand. From 3.35 to 3.66 the overburden was 60 % light brown clay/sand and rock fragments. The rock encountered throughout the hole was typical Dawson Range Granodiorite. It contained very minor fragments of diorite and at 8.1 m a 10 cm pegmatite dike occured.

ALTERATION:

The hole is dominated by weak propylitic alteration, alternating with zones of weak argillic (3). The propylitic zones are characterized by common calcite, and minor amounts of epidote, pyrite and hematite. The argillic zones are characterized by soft, pale coloured feldspars, no k-feldspars, no pyrite, weak calcite and moderate chlorite.

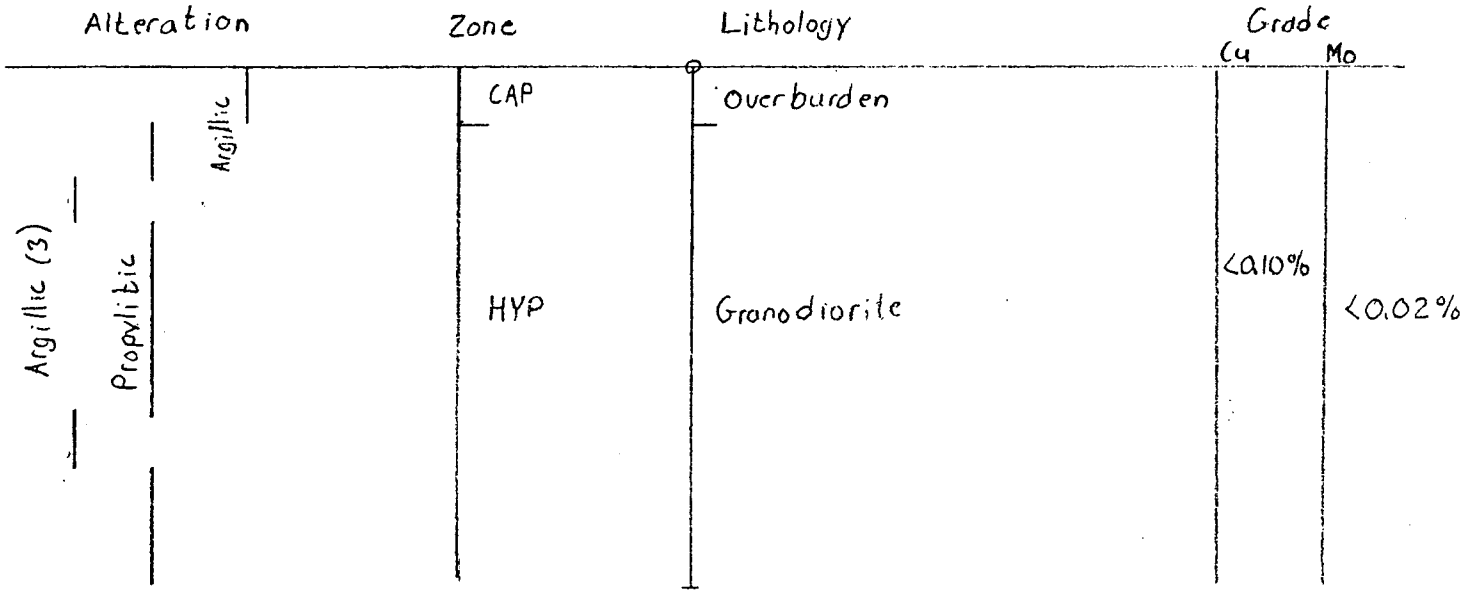
STRUCTURE:

The core was weakly broken and blocky throughout with no major shear structures.

MINERALIZATION:

No visible copper or molybdenum mineralization was encountered in the hole; however, pyrite occurred as disseminations and occasionally along narrow fractures.

94-342



0 5 10 20 m

Geotech Hole

Casino Project

94-342

53550 N

13 100 E

Scale 1:500

June 30/94

T.C. Becker

DATE	June 30 1994
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 342	Page	1
Geologist	T.C. Becker	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
000	3.66				OVBR				OVERBURDEN
3.66	6.71	927551			WRGD	1	<.01	<.002	
6.71	9.75	52			"	3	"	"	
9.75	12.80	53			"	1	"	"	
12.80	15.85	54			"	1	"	"	
15.85	18.90	55			"	1	"	"	
18.90	21.95	56			"	1	"	"	
21.95	24.99	57			"	3	"	"	
24.99	28.04	58			"	1	"	"	
28.04	31.09	59			"	1	"	"	
—	—	60	STD	—	—	—	—	—	94-HL
31.09	34.14	927561			WRGD	1	<0.1	<.002	

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER 94 - 342

SURVEY DATA

SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__ 6	Latite	QM__ 3	Quartz Monzonite
LP__ 6/	Porphyritic Latite	QP__ 3p	Early Patton Porphyry
M___	Microbreccia	QX__ 3x	Homolithic Intrusion Breccia
PP__ 5	Patton Porphyry	WR__ 2	Dawson Range Batholith
IX__ 4	Heterolithic Intrusion Breccia	YM__ 1	Yukon Group Metamorphic

MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc
To = Tourmaline	Cup = Cuprite	Qz = Quartz
Ep = Epidote	Bn = Bornite	Cal = Calcite
Lim = Limonite	Sft = Sulphates	Frac = Fracturing
Py = Pyrite	Mal = Malachite	Slik = Slickensides
		Mol = Molybdenite

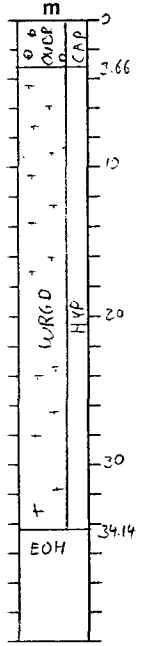
ALTERATION

7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

DRILLING DATA

APPROX. NORTHING	53550	
APPROX. EASTING	13100	
APPROX. ELEVATION	950	
DATE DRILLING STARTED	June 26	
DATE DRILLING ENDED	June 27	
TOTAL DEPTH	34.14	CASING
CASING DEPTH	3.66	IN / OUT
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	T.C Becker	
2ND LOGGER		

GRAPHIC LOG (m)



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.
P	0.00	3.66	CAP	OVER	3	M		
P	3.66	34.14	HYP	URGD	1	M	3	M

OVERBURDEN

0.00 - 1.52 — 60-70% hard light grey clay, minor sand 30-40% rock fragments, aug size ten

1.52 - 3.35 — 100% sand, minor clay, largest rock chip 3 mm 5% recovery between blocks,

3.35 - 3.66 — 60% light brown clay, minor sand, strong LI coating 40% rock fragments, maximum size 3cm, average 7mm Sharp lower contact with bed rock

LITHOLOGY

Typical Dacitic - minor fragments of wall rock, possibly diorite, as clasts up to 7cm in size, clasts appear to be strongly altered ~1% of rock is fragments

-at 81m is a 10 cm wide zone of pegmatite / myrmekitic texture, pink in color appears to be an intergrowth of quartz and K-spar

ALTERATION

Alternating zones of propylitic and argillic alteration

Propylitic 3.66 - 7.70m, 10.30 - 23.2m, 26.5 - 34.14m -3 zones characterized by common calcite beds disseminated and along fractures, disseminated epidote grains, minor pyrite, minor hematite, fresh K-spar and weakly altered biotite

P or S	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim
P	0	0	0	0	0	5
P	0	0	W	0	W	T

P or S	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn
P	0	0	0	0	0	0	0	0	0	0	0	0
P	0.5	0	0	0	0	0	0	0	0	0	0	0

P or S	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0	0	0	5	0	0	0	0	0
P	0	0	0	0	0	0	1/2	1/2	0

100% recovery

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 342**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim
								gradational	transition				into	a
						Argillic (?)			170	-	180	30	m	23
								character	ized	by		pale	green	
									minor		hematite		no	
					MINERALIZATION									
					- no		visible		copper		or		molybdenum	
					- minor		pyrite		as		dissemi	nations		
					STRUCTURE									
					- weakly		broken		rock		with		no	

P or S	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn
	gill	-	altered		rock		over		0.5	m		
	2 - 5		26.5m				2	zones				
	-	white	soft		clays		and		moderate		to	chlorite
		pyrite		no		clastic			K-spar			
	m		mineralization									
	and		trace		as		fracture			coatings		
	major		shear		structures							

P or S	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
			weak		calcite				

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-342 Page 1 of 1

LOGGED BY: K. Delau

DATE June 29

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0	3.66	3.66	0.91	25	NA	NA	NA	NA	NA	NA	NA	overburden
1	3.66	4.27	0.61	0.51	84	0.16	9	2	6	6	1	3	
1	4.27	4.72	0.45	0.27	60	0	6	2	6	5	1	2	
1	4.72	6.25	1.53	1.34	88	0.72	10	2	6	13	1	2	
2	6.25	6.71	0.46	0.45	98	0.31	10	2	6	4	1	2	
2	6.71	8.23	1.52	1.37	90	0.55	9	2	6	15	1	2	
2	8.23	9.75	1.52	1.41	93	0.76	10	2	6	11	1	3	
2-3	9.75	10.97	1.22	0.86	70	0	7	2	6	14	1	2	
3	10.97	11.58	0.61	0.69	113	0.50	10	3	6	5	1	3	
3	11.58	12.80	1.22	1.00	82	0.67	10	3	6	10	1	2	
3	12.80	14.33	1.53	1.38	90	0.81	9	3	6	17	1	2	
4	14.33	15.85	1.52	1.42	93	1.11	12	3	6	8	1	2	
4	15.85	17.37	1.52	1.38	91	0.36	9	3	6	17	1	3	
4-5	17.37	18.90	1.53	1.44	94	0.80	10	2	6	14	1	2	
5	18.90	20.42	1.52	1.50	99	0.85	10	2	6	14	1	3	
5	20.42	21.95	1.53	1.53	100	1.09	12	3	6	9	1	2	
5-6	21.95	23.47	1.52	1.47	97	1.17	13	2	6	7	1	3	
6	23.47	24.99	1.52	1.35	89	1.00	9	2	6	12	1	2	
6	24.99	26.52	1.53	1.49	97	1.32	13	2	6	7	1	3	
7	26.52	28.04	1.52	1.43	94	1.36	13	2	6	5	1	3	
7	28.04	29.57	1.53	1.57	103	1.43	12	2	6	8	1	2	
7	29.57	31.09	1.52	1.10	72	0.84	12	2	6	7	1	2	
8	31.09	32.61	1.52	1.41	93	0.73	10	3	6	13	1	3	
8	32.61	34.14	1.53	1.43	93	1.10	10	2	6	10	1	3	
		EOH											

SUMMARY - HOLE 94-343

NORTHING: 52600m
EASTING: 13550m

DATE: July 5, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information in the area of heap leach site #2. The hole encountered no significant mineralization. The hole intersected overburden to a depth of 4.88 m and typical granodiorite to the end of the hole at 34.14 m. Alteration consisted of weak supergene argillic clays to a depth of 7.16 m and weak propylitic from 4.88 to 34.14 m. No major shear structures were encountered and the hole was only weakly broken.

LITHOLOGY:

Overburden extended to 4.88 m. From 0.61 to 1.83 m the overburden was mainly light brown clays with 10-20 % sand and rock fragments. From 1.83 to 4.88 m the hole had very poor recovery with only weak clay and mainly rock fragments of granodiorite up to 6 cm.

The rest of the hole is typical Dawson Range Granodiorite with 1 % diorite clasts and 3 % narrow pegmatite dykes.

ALTERATION:

Weak supergene argillic clays overprint propylitic alteration to a depth of 7.16 m. Weak propylitic alteration is the dominant alteration within the hole and is characterized by stable K-feldspar, and trace of epidote.

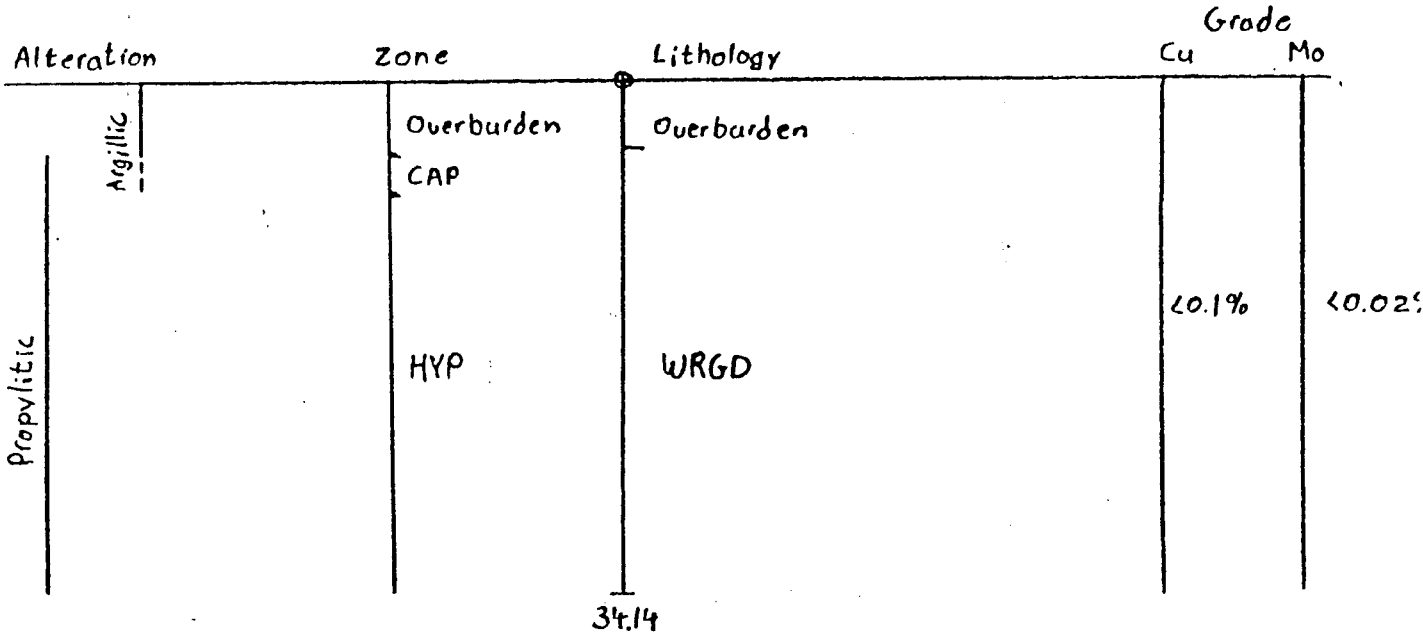
STRUCTURE:

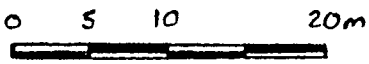
The hole was weakly broken and blocky with only minor zones of moderately broken rock. No significant shear structures were encountered within the hole.

MINERALIZATION:

No visible copper or molybdenum mineralization was encountered. Trace amounts of pyrite occurred as both disseminations and along veinlets. Limonite was present along fractures to the bottom of the hole and hematite was noted in a narrow pyrite vein.

94-343





Geotech Hole

Casino Project
94-343

Scale 1:500
52600 N
13550 E
July 4, 1994
T.C. Becker

DATE	July 3, 1994
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 343	Page	1
Geologist	T.C. Becker	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.00	4.88			CAP	OVBR	3			
4.88	7.77	927562		"	WRGO	1	<0.10	<0.02	
7.77	10.66	63		HYP	"	"	"	"	
10.66	13.72	64		"	"	"	"	"	
13.72	15.85	65		"	"	"	"	"	
15.85	18.90	66		"	"	"	"	"	
18.90	21.95	67		"	"	"	"	"	
21.95	24.99	68		"	"	"	"	"	
24.99	28.04	69		"	"	"	"	"	
28.04	31.09	70		"	"	"	"	"	
31.09	34.14	927571		"	"	"	"	"	

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 343**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

DRILLING DATA		
APPROX. NORTHING	52600	
APPROX. EASTING	13550	
APPROX. ELEVATION	872	
DATE DRILLING STARTED	June 28	
DATE DRILLING ENDED	June 29	
TOTAL DEPTH	344	CASING
CASING DEPTH	488	IN (OU
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	TC Becker	
2ND LOGGER		

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__ 6	Latite	QM__ 3	Quartz Monzonite
LP__ 6/	Porphyritic Latite	QP__ 3p	Early Patton Porphyry
M___	Microbreccia	QX__ 3x	Homolithic Intrusion Breccia
PP__ 5	Patton Porphyry	WR__ 2	Dawson Range Batholith
IX__ 4	Heterolithic Intrusion Breccia	YM__ 1	Yukon Group Metamorphic

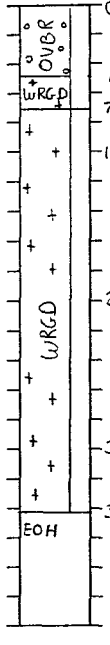
MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	Mol = Molybdenite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	
To = Tourmaline	Cup = Cuprite	Qz = Quartz	
Ep = Epidote	Bn = Bornite	Cal = Calcite	
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	
Py = Pyrite	Mal = Malachite	Slik = Slickensides	

ALTERATION

7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

GRAPHIC LOG



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	4.88	CAP	OVBR	3	W			0	0	0	0	0	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OVERBURDEN																														
						0.61 - 1.83m			80% very	light poor	brown recovery				clay,	10%	sand,	10%	rock	frag	ments						up	to	5mm	in	size				
						1.83 - 4.88m			very rock	poor fragments	recovery				mainly	rock	fragments	up	to	6cm	with	20%	clay	brown											
															rock	fragments	of	granodiorite																	
P	4.88	7.16	CAP	WRGD	1	W	3	W	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	T	0	0	0	0	0	0	S	
					LITHOLOGY																														
					typical Dawson Range Granodiorite																														
					ALTERATION																														
					- weak supergene clay overprint of a weak propylitic altered granodiorite																														
					- moderate limonite coating on all fractures and disseminated in rock																														
					MINERALIZATION																														
					- trace of pyrite along some fractures																														
					- no visible mineralization																														
					STRUCTURE																														
					- moderate to strongly fractured rock, no shear structures.																														

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 343**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
S	7.16	34.14	HYP	WRGD	I	W			o	o	T	o	T	T	T	o	o	o	o	o	o	o	o	o	T	o	T	o	o	o	o	o	W	W	o
					LITHOLOGY																															
						- typical		Dawson Range Granodiorite																													
						- minor		(~1%) dioritic clasts up to 7cm in size usually partly assimilated into granodiorite																													
						- minor		(~2%) narrow pegmatite dikes, maximum width 3cm, average width 1cm																													
					ALTERATION																															
						Propylitic		- weakly altered rock throughout, trace of disseminated calcite, weak calcite veinlets																													
								- K-feldspar stable zones of stronger propylitic with slightly soft, pale green, feldspar and																													
								- local zones of mafics altered to chlorite																													
								- trace of disseminated epidote																													
					MINERALIZATION																															
						- no visible copper or molybdenum mineralization																															
						- trace of pyrite both as disseminations and along narrow veinlets, up to 10.2m																															
						- trace of hematite with pyrite along a 1mm wide veinlet at																															
						- at 33 m is a 1cm wide quartz, pyrite vein																															
						- limonite is present along fractures to the bottom of the hole																															
					STRUCTURE																															
						- weakly broken rock with minor zones of moderately broken rock																															
						- no major shear structures noted																															
					Comments																															
						- the pomallic veins are mainly an intergrowth of quartz and K-feldspar with minor calcite																															

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-343 Page 1 of 2

LOGGED BY: K. Delau

DATE July 3

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.61	1.07	0.46	0.03	7	NA!	NA	NA	NA	NA	NA	NA	OVERBURDEN (CVI.
1	1.07	1.83	0.76	0.22	29	NA	NA	NA	NA	NA	NA	NA	OVERBURDEN (CVI.
1	1.83	2.44	0.61	0.13	21	0	3	2	4	15	5	4	
1	2.44	3.05	0.61	0.05	8	0	6	2	4	3	1	3	
1	3.05	3.65	0.60	0.03	5	0	3	2	4	6	NA	NA	
1	3.65	4.88	1.23	0.20	16	0	5	2	4	7	1	3	
1	4.88	5.18	0.30	0.19	63	0	5	2	4	4	1	2	
1	5.18	5.49	0.31	0.27	87	0.20	7	2	4	4	1	2	
1	5.49	5.94	0.45	0.28	62	0	6	2	4	8	1	3	
1	5.94	6.71	0.77	0.56	73	0	6	2	4	23	1	2	
1	6.71	7.16	0.45	0.28	62	0	6	2	4	15	1	3	
1-2	7.16	7.77	0.61	0.46	75	0.15	7	3	5	8	1	2	
2	7.77	8.23	0.46	0.42	91	0.22	7	3	5	6	1	2	
2	8.23	8.53	0.30	0.35	117	0.33	10	3	5	3	1	2	
2	8.53	9.75	1.22	1.19	98	0.51	7	3	5	16	1	2	
2	9.75	10.66	0.91	0.92	101	0.75	12	3	5	6	1	2	
2-3	10.66	12.19	1.53	1.42	93	1.18	12	3	5	8	1	2	
3	12.19	13.72	1.53	1.41	92	0.57	9	3	5	18	1	2	
3	13.72	15.24	1.52	1.46	96	0.95	12	3	5	9	1	2	
4	15.24	15.85	0.61	0.53	87	0	9	3	5	7	1	2	
4	15.85	17.37	1.52	1.34	88	0.81	10	3	5	13	1	2	
4	17.37	18.90	1.53	1.48	97	1.22	10	3	5	12	1	2	
4-5	18.90	20.42	1.52	1.20	79	0	6	3	5	25	1	2	
5	20.42	21.95	1.53	1.35	88	0.31	9	3	5	16	1	2	
5	21.95	23.47	1.52	0.96	63	0.35	7	3	5	18	1	2	
6	23.47	24.99	1.52	0.94	62	0.21	6	3	5	22	1	2	
6	24.99	26.52	1.53	1.34	88	0.83	10	3	5	11	1	3	
6-7	26.52	28.04	1.52	1.27	84	0.82	10	3	5	10	1	2	
7	28.04	29.57	1.53	1.39	91	0.69	9	3	5	15	1	2	
7	29.57	31.09	1.52	1.41	93	0.81	12	3	5	9	2	2	
7-8	31.09	32.61	1.52	1.34	88	0.73	10	3	5	13	1	2	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-3-3 Page 2 of 2

LOGGED BY: K. Delaney

DATE July 3

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
8	32.61	34.14	1.53	1.47	96	1.20	10	3	5	10	1	2	
		EOH											

SUMMARY - HOLE 94-344

NORTHING: 52375m
EASTING: 13550m

DATE: July 5, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information in the area of heap leach site #2. The hole encountered no significant mineralization. The hole intersected overburden to a depth of 5.18 m and typical granodiorite to the end of the hole at 34.14 m. Alteration consists of weak propylitic with minor patchy zones of argillic. No major shear structures were encountered but the hole contained moderately to well broken rock.

LITHOLOGY:

Overburden extended to a depth of 5.18 m. From 0.91 to 1.83 m the overburden consisted of 40 % light brown and grey clay with 40 % sand and 20 % rock fragments up to 5 cm in size. From 1.83 to 5.18 m the overburden was 80 % rock fragments and 20 % sand/clay with only 45 % recovery.

The rest of the hole is typical Dawson Range Granodiorite with very minor diorite fragments. The hole intersected aplitic to pegmatitic zones at 16.45 m, 17.75 m and 20.2 to 20.35 m, 22.45 to 23.95 and 26.05 to 26.95 m. The narrower zones appeared to be more of an intergrowth of Quartz and K-feldspar while the larger zones developed more grains of minerals.

ALTERATION:

The hole is dominated by weak propylitic alteration. It is characterized by weak carbonate both disseminated and along fractures, trace epidote grains, stable k-feldspar and chlorite both after mafics and forming weak narrow veinlets. Minor weak patchy zones of argillic clay alteration occur in areas of stronger fracture intensity.

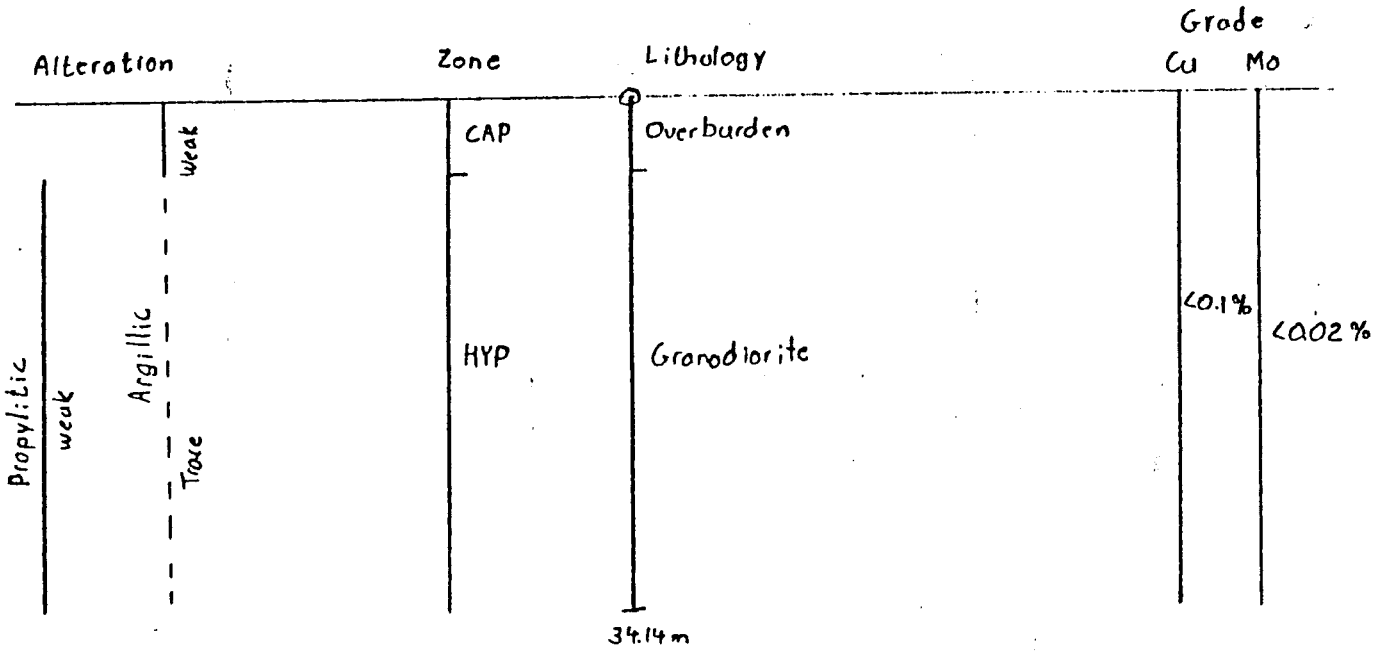
STRUCTURE:

The hole was moderately to well broken with no major shear structures. Calcite veins up to 1.5 mm in size are common.

MINERALIZATION:

No visible copper or molybdenum mineralization was noted. Very minor amounts of pyrite occurred as disseminations and trace amounts of limonite occurred along fractures to the bottom of the hole.

94-344



0 5 10 20 m

Geotech Hole

Casino Project
94-344
52375 N
13550 E
July 5, 1994
T.C. Becker

DATE	July 3, 1994
RIG #	#6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 344	Page	1
Geologist	T.C. Becker	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.00	5.18			CAP	OVBR	3			Overburden
5.18	7.16	927572		HYP	WRGD	1	<0.1	<0.02	
7.16	9.75	73		"	"	"	"	"	
9.75	12.19	74		"	"	"	"	"	
12.19	15.85	75		"	"	"	"	"	
15.85	18.90	76		"	"	"	"	"	
18.90	21.95	77		"	"	"	"	"	
21.95	24.99	78		"	"	"	"	"	
24.99	28.04	79		"	"	"	"	"	
		80	STD						94-HL
28.04	31.09	81		HYP	WRGD	1	<0.1	<0.02	
31.09	34.14	82		"	"	"	"	"	
	EOH								

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER 94 - 344

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING
Date		
By		

INTERVAL: P = Primary; S = Secondary

MINERALIZATION: Anh = Anhydrite; Gyp = Gypsum; Cb = Carbonate; To = Tourmaline; Ep = Epidote; Lim = Limonite; Py = Pyrite; Cpy = Chalcopyrite; Cc = Chalcocite; Cu = Native Copper; Cup = Cuprite; Bn = Bornite; Sft = Sulphates; Mal = Malachite; Mol = Molybdenite; Mag = Magnetite; Hem = Hematite; PbZn = Lead, Zinc; Qz = Quartz; Cal = Calcite; Frac = Fracturing; Slik = Slickensides

ALTERATION: 7 = Potassic; 6 = Ser.-clay-chlor.; 5 = Phyllic (Sericite); 4 = Phyllic (K-Spar); 3 = Argillic (Kaolinite); 2 = Argillic (Montm.); 1 = Propylitic

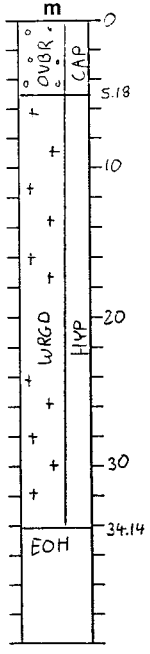
INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

DRILLING DATA		
APPROX. NORTHING	52375	
APPROX. EASTING	13550	
APPROX. ELEVATION	850	
DATE DRILLING STARTED	June 30	
DATE DRILLING ENDED	July 1	
TOTAL DEPTH	34.14	CASING
CASING DEPTH	4.88	IN (OUT)
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	TC Becker	
2ND LOGGER		

GRAPHIC LOG



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.
P	0.00	5.18	CAP	OVBR	3	W		
P	5.18	34.14	HYP	WRGD	1	W	3	T

P or S	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0	0	0	0	0	W	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P	0	0	W	6	T	T	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	W	M	0

OVERBURDEN

0.91 - 1.83 m

40% light brown and grey clay, 40% sand, 20% rock fragments to 5cm

~5% recovery, ~90% rock fragments, avg 2.5 cm, max mm - cm, appears to be mainly granodiorite fragments

~20% clay between rock fragments

1.83 - 5.18 m

LITHOLOGY

WRGD - typical Dawson Range Granodiorite - very minor Diorite clasts, strongly assimilated into granodiorite

WRAP - aplitic to pegmatitic 20.12 - 20.35 m, 22.45 - 23.95 m, 26.05 - 26.95 m, 16.45 m - 17.75 m - 3cm to 1.5m zones of quartz and K-feldspar intergrowths with minor calcite in matrix - larger zones are more aplitic, with more common grains, thin narrow zones of intergrown quartz / K-feldspar

ALTERATION

Propylitic - weak pervasive alteration, calcite disseminated and along fractures, - chloritic after mafics and along some fractures, trace of epidote - K-feldspar common and some feldspars are slightly green and slightly soft

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 344**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
						arg	illic	(3)																										

- minor, patchy zones where rock is more fractured
- feldspars altered to white clays, mafics altered to clay
- K feldspars are not visible

MINERALIZATION

- no visible Copper or Molybdenum mineralization
- trace amounts of limonite along some fractures to the bottom of hole
- trace amounts of pyrite as fine disseminations

STRUCTURE:

- moderately to well broken rock
- no major shear structures
- common calcite veinlets up to 1.5 mm wide
- minor narrow veinlets of chlorite ? - discontinuous, avg <1 mm wide

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-344 Page 1 of 1

LOGGED BY: K. Delau

DATE July 3

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.91	1.83	0.92	0.46	50	NA	NA	NA	NA	NA	NA	NA	OVERBURDEN
1	1.83	3.05	1.22	0.29	24	0	3	2	5	20	2	3	
1	3.05	3.66	0.61	0.24	39	0	3	2	5	20	NA	NA	
1	3.66	4.27	0.61	0.25	41	0	5	2	5	15	1	4	
1	4.27	4.88	0.61	0.36	59	0	5	2	5	25	1	3	
1-2	4.88	6.40	1.52	1.08	71	0	6	2	5	40	1	2	
2	6.40	7.16	0.76	0.69	91	0	6	2	5	14	1	2	
2	7.16	9.75	2.59	1.67	64	0.16	6	2	5	50	1	2	
3	9.75	10.97	1.22	0.86	70	0	6	2	5	22	1	2	
3	10.97	12.19	1.22	1.03	84	0	7	2	5	19	1	2	
3	12.19	13.72	1.53	1.42	93	0	7	2	5	23	1	2	
3-4	13.72	15.24	1.52	1.44	95	0.20	7	2	5	24	1	2	
4	15.24	15.85	0.61	0.59	97	0.38	9	2	5	7	1	2	
4	15.85	17.37	1.52	1.37	90	0.32	9	2	5	18	1	2	
4-5	17.37	18.90	1.53	1.12	73	0	6	3	5	33	1	2	
5	18.90	20.42	1.52	1.42	93	0.46	7	3	5	22	1	2	
5	20.42	21.95	1.53	1.29	84	0.57	9	3	5	16	1	2	
6	21.95	22.40	0.45	0.28	62	0	6	3	5	8	2	2	
6	22.40	23.47	1.07	0.54	50	0	6	3	5	14	1	2	
6	23.47	24.99	1.52	1.06	70	0	7	3	5	21	1	2	
6-7	24.99	26.67	1.68	1.21	72	0.21	7	3	5	24	1	2	
7	26.67	28.04	1.37	1.17	85	0.48	9	2	5	15	1	2	
7	28.04	29.57	1.53	0.61	40	0.15	6	2	5	35	1	3	
7-8	29.57	30.63	1.06	0.74	70	0	6	2	5	30	2	3	
8	30.63	31.09	0.46	0.46	100	0	6	2	5	17	1	2	
8	31.09	32.61	1.52	0.84	55	0	6	2	5	23	1	2	
8	32.61	34.14	1.53	1.15	75	0.20	7	2	5	22	2	2	
		EOH											

SUMMARY - HOLE 94-345

NORTHING: 50300m
EASTING: 12800m

DATE: July 8, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information in the area of dam site number 1. The hole encountered no significant mineralization. The hole intersected overburden to a depth of 14.93 m and Yukon Metamorphic rocks to the end of the hole at 43.28 m. Alteration consists of fresh rock to weak propylitic with weak supergene argillic clay to 30.17 m. No major shear structures were encountered but the hole contained moderately to well broken rock.

LITHOLOGY:

Overburden extended to a depth of 14.93 m. From 0.00 to 1.83 m the overburden consisted of 60 % sand/clay and 40 % rock fragments up to 3 cm in size. From 1.83 to 10.36 m and from 11.89 to 14.93 the hole had poor recovery and the overburden was 80 % rock fragments with 20 % sand/clay. From 10.36 to 11.89 m the overburden appeared to be a large boulder of gneiss.

The rest of the hole is Yukon Metamorphic Gneiss. The rock is fine to very fine grained with 1 mm gneissic layers. The alternating layers consist of an intermediate (grey) rock and a mafic (black) rock. Approximately 5 % of the unit is white quartz grains with augen shapes and up to 1 cm in size.

ALTERATION:

The hole is dominated by fresh rock to weak propylitic alteration. It is characterized by weak carbonate both disseminated and along fractures, stable k-feldspar and chlorite both after mafics and forming weak narrow veinlets. Supergene argillic clay alteration occurs to a depth of 30.17 m and is characterized by weak clays, bleached appearance to the rock and abundant limonite.

STRUCTURE:

The hole was moderately to well broken with no major shear structures. Minor calcite veins up to 1.5 mm in size occur in the hole.

MINERALIZATION:

No visible copper or molybdenum mineralization was noted. Very minor amounts of pyrite occurred as disseminations and along narrow veins/fractures. Trace amounts of limonite occurred along fractures to the bottom of the hole.

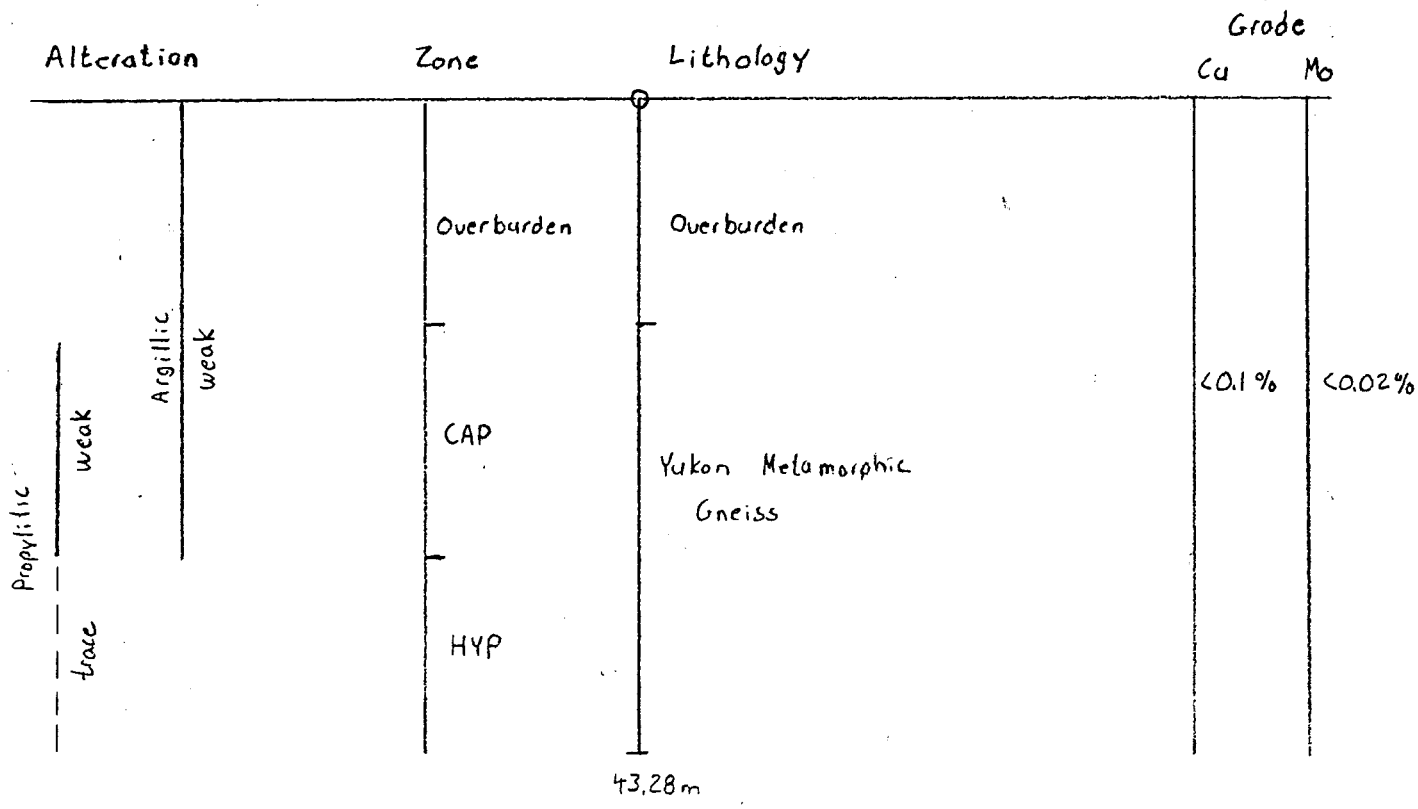
DATE	July 5, 1994
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 345	Page	1
Geologist	TC Becker	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.00	14.93			CAP	OVBR	3	<0.10	<0.02	Overburden
14.93	18.90	927583		"	YMGN	"	"	"	
18.90	21.79	84		"	"	"	"	"	
21.79	24.99	85		"	"	"	"	"	
24.99	28.04	86		"	"	"	"	"	
28.04	31.09	87		"	"	"	"	"	
31.09	34.14	88		HYP	"	1	"	"	
34.14	37.19	89		"	"	"	"	"	
37.19	40.23	90		"	"	"	"	"	
40.23	43.28	91		"	"	"	"	"	
	EOH								

94-345



0 5 10 20m

Geotech Hole

Casino Project

94-345

50300 N

12800 E

July 7, 1994

T.C Becker

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 -345**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

MINERALIZATION			Mol = Molybdenite	ALTERATION
Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite		7 = Potassic
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite		6 = Ser.-clay-chlor.
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc		5 = Phyllic (Sericite)
To = Tourmaline	Cup = Cuprite	Qz = Quartz		4 = Phyllic (K-Spar)
Ep = Epidote	Bn = Bornite	Cal = Calcite		3 = Argillic (Kaolinite)
Lim = Limonite	Sft = Sulphates	Frac = Fracturing		2 = Argillic (Montm.)
Py = Pyrite	Mal = Malachite	Slik = Slickensides		1 = Propylitic

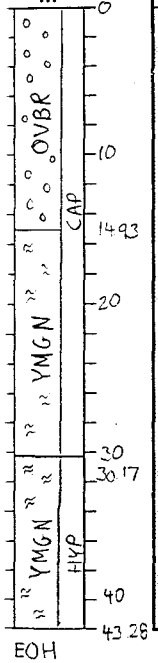
DRILLING DATA			
APPROX. NORTHING	50300		
APPROX. EASTING	12800		
APPROX. ELEVATION	775		
DATE DRILLING STARTED	July 2		
DATE DRILLING ENDED	July 4		
TOTAL DEPTH	43.28	CASING	
CASING DEPTH	14.63	IN	(OUT)
DEPTH OF HQ-NQ REDUCTION			
LOGGED BY	T.C. Becker		
2ND LOGGER			

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__ 6	Latite	QM__ 3	Quartz Monzonite
LP__ 6/	Porphyritic Latite	QP__ 3p	Early Patton Porphyry
M___	Microbreccia	QX__ 3x	Homolithic Intrusion Breccia
PP__ 5	Patton Porphyry	WR__ 2	Dawson Range Batholith
IX__ 4	Heterolithic Intrusion Breccia	YM__ 1	Yukon Group Metamorphic

GRAPHIC LOG



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	14.93	CAP	OVBR	3	W			0	0	0	0	0	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OVERBURDEN																															
		0.00	1.83	m	60% sand/clay mixture with 40% rock fragments up to 3cm in size - mainly granodiorite fragments																															
		1.83	10.36	m	- sand/clay mainly dark brown-grey, more sand than clay poor recovery, 90% rock fragments up to 10 cm in size - rock fragments mainly granodiorite and gneiss with very minor pegmatite 10% of unit is sand/clay - clay likely lost during drilling - some rock fragments show rounding due to ? fluvial influence																															
		10.36	11.89	m	large boulder in overburden ? - appears to be a continuous unit of metamorphic rock with joints and fractures preserved																															
		11.89	14.93	m	poor recovery, 90% rock fragments, mainly granodiorite and metamorphic fragments - minor clay and sand within unit																															
P	14.93	30.17	CAP	YMGN	3	W	1	W	0	0	0	0	0	M	T	0	0	0	0	0	0	0	0	0	0	0	T	0	0	0	0	0	T	M	0
					LITHOLOGY																															
					YMGN - Yukon Metamorphic Gneiss, pale bleached appearance, fine to very fine grained gneissic layers 1mm wide, alternating layers of intermediate (grey) and mafic (black) layers																																	

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 345**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					ALTERATION																													
					Arg	lic	weak to moderate	supergene limonite	arg	lic					clays		overprinting along		bleached							oxides								
					Fresh to weak		propylitic		k-feldspar						stable				still stable										trace			calcite				
					MINERALIZATION																														
					- no visible copper or molybdenum mineralization																														
					trace pyrite		disseminated, tarnished by limonite coating																													
					STRUCTURE																														
					- moderately to well fractured rock, no visible shear structures																														
					- fractures mainly planar and irregular with limonite coatings,																														
					very minor bowork limonite																														
					Comment:																														
					272 m - a 10 cm zone of bull white quartz, discontinuous																														
S	30.17	43.28	HYP	YMGN	1	T			o	o	T	o	-	T	T	o	o	o	o	o	,	o	-	-	-	-	T	o	o	o	o	o	3/	M	o
					LITHOLOGY																														
					YMGN - Yukon Metamorphic Gneiss, light to dark grey in color, <1mm to 1mm alternating																														
					bands of dark and light material																														
					- 5% of unit is white quartz augens up to 1cm in size, average 5mm																														
					ALTERATION																														
					Fresh to weak		propylitic		weak						calcite along fractures and a trace as disseminations																				
					- trace of pyrite as disseminations and along fractures																														
					- k-feldspar stable, very minor chlorite as disseminations after mafics.																														
					MINERALIZATION																														
					- no visible copper or molybdenum mineralization																														
					- trace of limonite																														
					- trace of pyrite both as disseminations and along fractures																														

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 -345**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					STRUCTURE																														
					moderately																														
					-no		major																												

fractured throughout bottom of the hole

structures.

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-345 Page 1 of 2

LOGGED BY: Craig Hamner

DATE July 6/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.00	1.22	1.22	0.95	78	0	2	0	1	na	na	na	- Overburden
1	1.22	1.83	0.61	0.46	75	0	2	0	1	na	na	na	
1	1.83	2.44	0.61	0.08	13	0	2	1	3	na	na	na	
1	2.44	2.90	0.46	0.06	13	0	2	3	3	na	na	na	
1	2.90	3.35	0.45	0.06	13	0	2	3	3	na	na	na	
1	3.35	4.57	1.22	0.23	19	0	5	3	3	na	na	na	
1	4.57	6.40	1.83	0.27	15	0	5	4	3	na	na	na	
(1-2)	6.40	7.01	0.61	0.18	30	0	5	3	3	na	na	na	
2	7.01	8.23	1.22	0.15	12	0	5	3	3	na	na	na	
2	8.23	9.75	1.52	0.15	10	0	5	3	3	na	na	na	
2	9.75	10.36	0.61	0.19	31	0	5	3	3	na	na	na	
2	10.36	11.89	1.53	0.77	50	0	5	2	3	na	na	na	
2	11.89	12.80	0.91	0.28	31	0	5	2	3	na	na	na	
2	12.80	14.02	1.22	0.43	35	0	5	2	3	na	na	na	
(2-3)	14.02	14.93	0.91	0.26	29	0	5	2	3	na	na	na	
3	14.93	15.54	0.61	0.61	100	0.17	6	3	3	10	1	2	- Bedrock
3	15.54	16.61	1.07	0.62	58	0	6	2	3	4	1	2	
3	16.61	17.37	0.76	0.67	88	0.16	6	2	3	6	1	2	
3	17.37	17.98	0.61	0.41	67	0	7	2	3	5	1	2	
3	17.98	18.90	0.92	0.12	13	0	8	2	3	1	1	2	
3	18.90	19.51	0.61	0.61	100	0.16	6	2	3	9	1	2	
(3-4)	19.51	20.12	0.61	0.44	72	0.16	4	3	3	6	1	2	
4	20.12	20.42	0.30	0.30	100	0	7	2	3	6	1	2	
4	20.42	20.88	0.46	0.46	100	0.28	5	3	4	5	1	2	
4	20.88	21.79	0.91	0.84	92	0	5	2	3	6	1	2	
4	21.79	22.40	0.61	0.54	88	0	5	2	4	10	1	2	
4	22.40	23.32	0.92	0.66	72	0	6	3	3	9	1	3	
(4-5)	23.32	24.38	1.06	1.06	100	0.56	7	3	4	14	1	3	
5	24.38	24.99	0.61	0.61	100	0.24	7	2	4	12	1	2	
5	24.99	26.52	1.53	1.41	92	0.31	8	2	4	17	1	2	
(5-6)	26.52	28.04	1.52	1.52	100	0.38	9	2	4	17	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-345 Page 2 of 2

LOGGED BY: Craig Hammer

DATE July 6 1994

con't Page 2

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
6	28.04	29.57	1.53	0.89	58	0.16	7	2	4	19	1	2	
6	29.57	31.09	1.52	1.52	100	0.68	10	3	4	15	1	3	- last of significant limonite
(6-7)	31.09	32.46	1.37	1.29	94	0.71	10	3	5	14	1	2	
7	32.46	34.14	1.68	1.41	84	0	8	3	5	14	1	2	
7	34.14	35.66	1.52	0.95	63	0	6	3	5	17	1	2	
(7-8)	35.66	37.19	1.53	0.99	65	0	6	4	5	15	1	3	
8	37.19	38.71	1.52	1.52	100	0.51	9	4	5	19	1	2	
8	38.71	40.23	1.52	1.50	99	0.31	9	4	5	20	1	3	
(8-9)	40.23	41.76	1.53	1.41	92	0.53	9	4	5	18	1	2	
9	41.76	42.98	1.22	1.05	86	0	10	4	5	11	1	2	
9	42.98	43.28	0.30	0.30	100	0	6	4	5	3	1	3	

SUMMARY - HOLE 94-346

NORTHING: 50350m
EASTING: 12650m

DATE: July 10, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information in the area of dam site number 1. The hole encountered no significant mineralization. The hole intersected overburden to a depth of 3.66 m and Yukon Metamorphic Gneiss and Quartzite to the end of the hole at 34.14 m. Alteration consists of fresh rock to trace of propylitic, overprinted by weak supergene argillic clay to 22.20 m. No major shear structures were encountered but the hole contained moderately to well broken rock.

LITHOLOGY:

The hole encountered overburden to a depth of 3.66 m. Overburden had very poor recovery and consisted of rock fragments, up to 5 cm in size, of Yukon Metamorphic Gneiss.

The rest of the hole is Yukon Metamorphic rocks. From 3.66 to 22.20 m and from 27.60 to 34.14 m the rock is fine to very fine grained gneiss, with 1 mm gneissic layers. The alternating layers consist of an intermediate (grey) rock and a mafic (black) rock. Approximately 5 % of the unit is white quartz grains with augen shapes and up to 0.7 cm in size. From 22.20 to 27.60 m the rock is a pale grey quartzite with minor quartz-rich gneiss.

ALTERATION:

The hole is dominated by fresh rock with a trace of propylitic alteration. Weak patchy zones of supergene argillic clay alteration occurs to a depth of 22.20 m and is characterized by weak clays, bleached appearance to the rock and abundant limonite.

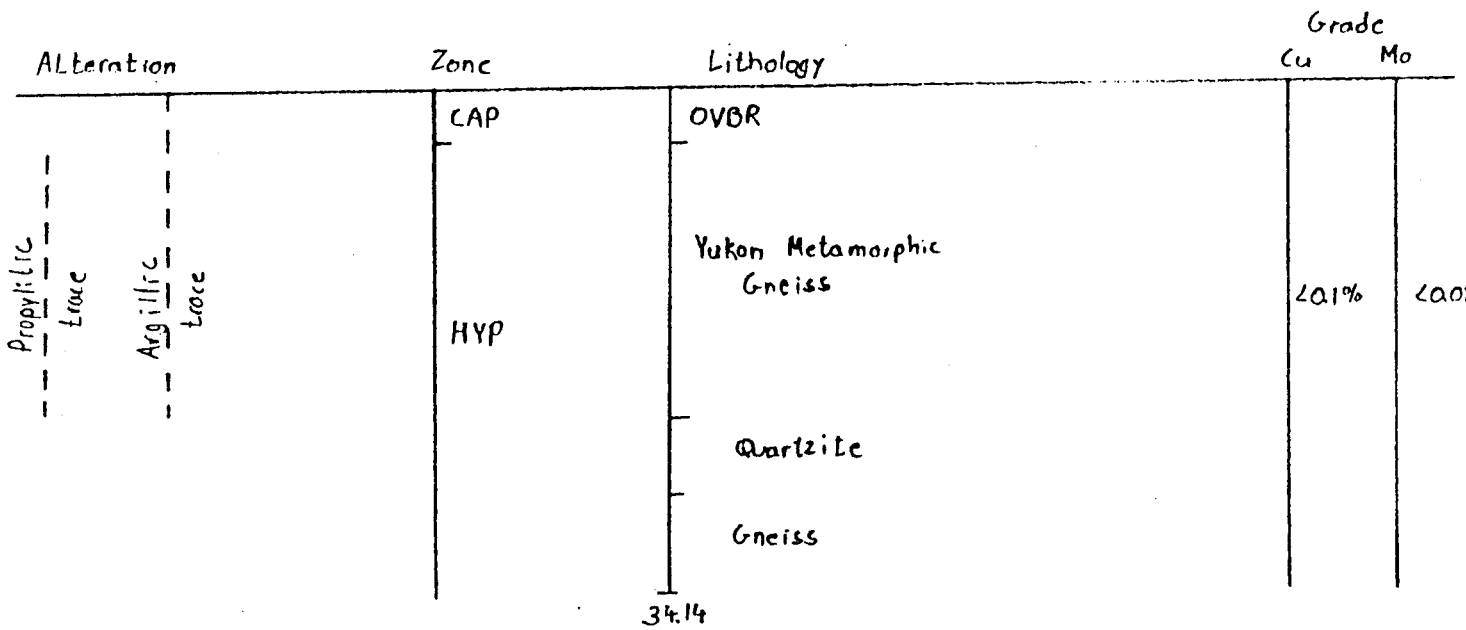
STRUCTURE:

The hole was moderately to well broken with no major shear structures. Minor calcite veins up to 1.5 mm in size occur in the hole.

MINERALIZATION:

No visible copper or molybdenum mineralization was noted. Trace amounts of pyrite occurred as disseminations and less commonly along narrow veins/fractures. Trace amounts of limonite occurred along fractures to the bottom of the hole.

94-346



0 5 10 20m

Scale 1:500

Geotech Hole

94-346

Casino Project

50350 N
12650 E

July 10, 1994

T.C. Becker

DATE	July 7, 1994
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 346	Page	1
Geologist	T.C. Becker	of	

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
.00	3.66			CAP	OVBR	3			
3.66	6.71	598001		HYP	YMGN	"	<0.10	<0.02	
6.71	9.75	02		"	"	"	"	"	
9.75	12.80	03		"	"	"	"	"	
12.80	15.85	04		"	"	"	"	"	
15.85	18.90	05		"	"	"	"	"	
18.90	21.95	06		"	"	"	"	"	
21.95	24.69	07		"	YMQT		"	"	
24.69	27.58	08		"	"		"	"	
27.58	31.09	09		"	YMGN		"	"	
31.09	34.14	598010		"	"		"	-	

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER 94 - 346

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING
Date		
By		

INTERVAL: P = Primary, S = Secondary

MINERALIZATION

Anh = Anhydrite; Gyp = Gypsum; Cb = Carbonate; To = Tourmaline; Ep = Epidote; Lim = Limonite; Py = Pyrite; Cpy = Chalcopyrite; Cc = Chalcocite; Cu = Native Copper; Cup = Cuprite; Bn = Bornite; Sft = Sulphates; Mal = Malachite; Mag = Magnetite; Hem = Hematite; Frac = Fracturing; Slik = Slickensides; Mol = Molybdenite; PbZn = Lead, Zinc; Qz = Quartz; Cal = Calcite

ALTERATION

7 = Potassic; 6 = Ser.-clay-chlor.; 5 = Phyllic (Sericite); 4 = Phyllic (K-Spar); 3 = Argillic (Kaolinite); 2 = Argillic (Montm.); 1 = Propylitic

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

DRILLING DATA		
APPROX. NORTHING	50350	
APPROX. EASTING	12650	
APPROX. ELEVATION	730	
DATE DRILLING STARTED	July 5	
DATE DRILLING ENDED	July 6	
TOTAL DEPTH	3414	CASING
CASING DEPTH	4.27	IN (OUT)
DEPTH OF HQ-NQ REDUCTION		
LOGGED BY	T.C. Becker	
2ND LOGGER		

GRAPHIC LOG (m): OVBR 0–3.66; YMGN 3.66–22.20; YMQT 22.20–27.60; YMGN 27.60–34.14; EOH 34.14

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	000	366	CAP	OVBR	3	T			0	0	0	0	0	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OVERBURDEN																														
					000 - 366m				very poor recovery - only rock fragments up to 5cm in size recovered																												
					- very weakly weathered rock				all the rock fragments appear to be metamorphic gneisses - allmost fresh																												
P	366	2220	HYP	YMGN	3	T	1	T	0	0	0	0	0	W	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	T	M	0
					LITHOLOGY																														
					Yukon Metamorphic Gneiss - very fine to fine grained 1 to 10mm alternating bands of intermediate (grey) and mafic (black) material																																
					ALTERATION																																
					fresh to trace propylitic - minor local zones of weak supergene alteration - rock appears fresh with only minor calcite along fractures and weak calcite along some fractures																																
					MINERALIZATION																																
					no visible copper or molybdenum mineralization - no visible pyrite																																
					STRUCTURE																																
					- moderately to well broken rock - no shear structures - rare layers show penetrative deformation at 209m																																

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 -346**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	22.20	27.60	HYP	YMQT					o	o	o	o	o	W	W	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	M	o
					LITHOLOGY																															
					- mainly a pale grey quartzite with minor quartz-rich gneiss																															
					- traces of gneissic banding but mainly a homogeneous quartzite																															
					ALTERATION																															
					- basically fresh rock, very little evidence of alteration																															
					- weak limonite along fractures but no supergene evidence																															
					MINERALIZATION																															
					- weak disseminated pyrite grains throughout rock																															
					- no visible Cu or Mo																															
					STRUCTURE																															
					- moderately broken rock, no shear structures																															
					- common discontinuous hairline fractures																															
P	27.60	34.14	HYP	YMQN					o	o	o	o	o	T	T	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	W	o
					LITHOLOGY																															
					- Yukon Metamorphic gneiss, same as above the quartzite zone																															
					- common < 1cm in size while quartz algen structures																															
					- minor coarse discontinuous quartz zones cross cutting gneissic layers																															
					ALTERATION																															
					- basically fresh rock, very little evidence of alteration																															
					- weak limonite along fracture to the end of hole																															
					MINERALIZATION																															
					- trace amounts of disseminated pyrite throughout rock																															
					- no visible Cu or Mo																															
					STRUCTURE																															
					- weak to moderately fractured with no shear structures.																															

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-346 Page 1 of 2

LOGGED BY: T.C. Becker

DATE July 7, 1994

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.61	1.23	0.62	0.07	11	0	6	3	3	na	na	na	Overburden
1	1.23	1.83	0.60	0	0	0	6	3	3	na	na	na	
1	1.83	3.05	1.22	0.35	29	0	6	3	3	na	na	na	
1	3.05	3.66	0.61	0.16	26	0	6	3	3	na	na	na	
1	3.66	4.27	0.61	0.23	38	0	6	3	3	6	1	3	Bedrock - limonite on fractures to ~ 30°
1	4.27	5.79	1.52	1.48	97	0.20	7	3	3	20	1	2	- no clay coated fractures
1	5.79	6.71	0.92	0.27	29	0	6	3	3	4	1	3	- no shear structures
1-2	6.71	8.23	1.52	1.26	83	0	7	4	4	18	1	3	
2	8.23	9.75	1.52	0.38	25	0	6	3	3	5	1	3	
2	9.75	11.28	1.53	0.87	57	0.36	7	3	3	4	1	3	
2-3	11.28	12.80	1.52	1.29	85	0.26	7	3	3	15	1	3	
3	12.80	14.33	1.53	1.53	100	0.39	8	3	4	20	1	2	
3	14.33	15.85	1.52	1.48	97	0.16	8	4	4	18	1	2	
3-4	15.85	16.00	0.15	0.15	100	0	7	4	4	3	1	3	
4	16.00	17.53	1.53	1.29	84	0	7	4	3	16	1	2	
4	17.53	17.98	0.45	0.40	89	0	7	4	4	5	1	3	
4	17.98	18.90	0.92	0.54	59	0	7	4	3	9	1	3	
4	18.90	19.66	0.76	0.76	100	0.32	8	4	4	7	1	2	
5	19.66	21.18	1.52	1.52	100	0.82	9	5	4	10	1	3	
5	21.18	21.95	0.77	0.73	95	0.58	11	5	4	4	1	3	
5	21.95	22.86	0.91	0.76	83	0.23	9	5	4	6	1	2	
5	22.86	23.47	0.61	0.47	77	0.16	9	5	4	8	1	2	
5-6	23.47	23.93	0.46	0.35	76	0	7	5	4	4	1	3	
6	23.93	24.69	0.76	0.76	100	0	8	5	4	9	1	2	
6	24.69	25.45	0.76	0.66	87	0	7	5	4	10	1	2	
6	25.45	26.67	1.22	1.15	94	0	7	5	4	12	1	2	
6-7	26.67	27.58	0.91	0.83	91	0.18	7	5	4	7	1	2	
7	27.58	29.11	1.53	1.46	95	0.41	9	5	4	8	1	3	
7	29.11	30.17	1.06	0.92	87	0.19	9	5	4	5	1	3	
7-8	30.17	31.09	0.92	0.92	100	0.88	9	5	4	4	1	3	
8	31.09	32.61	1.52	1.37	90	0.70	10	5	4	5	1	2	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-346 Page 2 of 2

LOGGED BY: T.C. Becker

DATE Jul 7 1994

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
8	32.61	34.14	1.53	1.36	89	057	9	5	4	7	1	2	
		EOH											

CASINO PROJECT 1994

Drill Hole Summary
94-347

NORTHING:	250,100 N	**AZIMUTH:**	N\A
EASTING:	112,650 E	**DIP:**	-90°
ELEVATION:	760 m		

This vertical hole was drilled for geotechnical information within the confines of proposed Dam Site #1. The drill hole did not encounter any visible copper or molybdenum mineralization.

LITHOLOGY

The hole was collared in overburden which extended to a depth of 12.19 metres. The overburden was comprised primarily of quartz-feldspar-biotite sand which often contained larger fragments of granodiorite; lesser quantities of granodiorite in the form of boulders, cobbles and pebbles was also observed. Clay was absent in the cored overburden which may be due to sampling method - if recovery of fines was poor then the fines mixed with water in the drill return were sampled.

The remainder of the hole (12.19 to 67.67 metres) was dominated by Yukon Metamorphic Group Gneiss. The gneiss had a well developed foliation with numerous quartz *sweats* and boudins ranging in size from less than 1 centimetre to greater than 2.5 centimetres.

A latite pebble dyke (approximately 3 metres thick) cross cut the gneiss at approximately 15 metres depth. The dyke was composed of subrounded to angular fragments of granodiorite, diorite and gneiss in a fine grained latite matrix. Clast size ranged from less than 1 cm to 24 cm in diameter.

ALTERATION

This drill hole exhibited very little alteration. The rock appeared fresh with minor chlorite concentrations observed adjacent to carbonate veins, veinlets and carbonated healed shear zones.

MINERALIZATION

Oxidation extended to the end of the drill hole and visible copper or molybdenum mineralization was not observed.

STRUCTURE

The hole was weakly fractured from top to bottom. Generally the foliation in the gneiss ranges from 010° to 025° to core axis. Quartz observed generally parallels this foliation; however, some cross cutting relationships were noted indicating a later stage of veining at 010° to core axis.

Lena K. Brommeland
July 10, 1994

DATE	JULY 10, 1994
RIG #	6

SYNOPTIC DRILL LOG (E.S)
CASINO PROJECT

Drill Hole	94 - 347	Page	1
Geologist	L. BRONNELAND	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.00	12.19	—		CAP	OVBR	N/A	N/A	N/A	OVERBURDEN
12.19	15.24	598011		CAP	YMGN	3	< .05%	< .001%	NO VISIBLE Cu OR MoS_2 MINER'N
15.24	17.68	012		CAP	LTXD	3			LATITE PEBBLE DYKE
17.68	20.42	013		HYP	YMGN	N/A			FRESH ROCK
20.42	23.77	014							
23.77	26.52	015							
26.52	29.57	016							
29.57	33.07	017							
33.07	35.81	018							
35.81	38.71	019							
38.71	42.37	020	DUP						LAB DUPLICATE SAMPLE
42.37	44.81	021							
44.81	47.85	022							
47.85	50.75	023							
50.75	53.64	024							
53.64	57.45	025							
57.45	59.89	026							
59.89	63.25	027							
63.25	66.29	028		↓	↓	↓	↓	↓	
66.29	67.67	598029		HYP	YMGN	N/A	< .05	< .001	
(E.O.H.)									

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

(E.S.)

DRILL HOLE NUMBER **94 - 347**

SURVEY DATA

SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING
Date		
By		

INTERVAL: P = Primary; S = Secondary

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	Mol = Molybdenite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	
To = Tourmaline	Cup = Cuprite	Qz = Quartz	
Ep = Epidote	Bn = Bornite	Cal = Calcite	
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	
Py = Pyrite	Mal = Malachite	Slik = Slickensides	

ALTERATION

7 = Potassic; 6 = Ser.-clay-chlor.; 5 = Phyllic (Sericite); 4 = Phyllic (K-Spar); 3 = Argillic (Kaolinite); 2 = Argillic (Montm.); 1 = Propylitic

DRILLING DATA

APPROX. NORTHING	250,100
APPROX. EASTING	112,650
APPROX. ELEVATION	760m
DATE DRILLING STARTED	JULY 05/94
DATE DRILLING ENDED	JULY 08/94
TOTAL DEPTH	67.67 m — CASING
CASING DEPTH	GEOTECH HOLE 42' / 16' LEFT — (IN) OUT
DEPTH OF HQ-NQ REDUCTION	N/A
LOGGED BY	LENA K. BROMMELAND
2ND LOGGER	

GRAPHIC LOG m

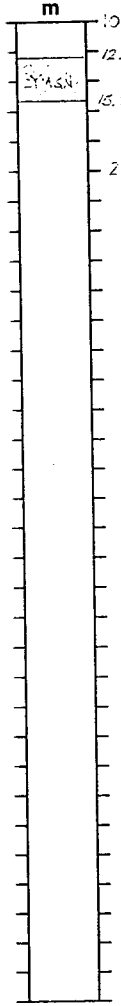
P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	12.19	CAP	OVER	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					OVERBURDEN:																															
									SAND TO COBBLE SIZED FRAGMENTS OF GRANODIORITE, GNEISS, DIORITE & LATITE. SOME AMOUNT																											
									WHICH MAY BE DUE TO SAMPLING METHOD → IF RECOVERY OF FINES WAS POOR																									
									THEN FINES MIXED WITH WATER IN DRILL RETURN WERE [illegible] MATERIAL																									
									RECOVERED IS DESCRIBED RUN BY RUN BELOW:																									
					0.00	-	1.07	m:	55% RECOVERY;						80%	SAND [illegible] FLD. BIOTITE FRAGMENTS LESS THAN 1mm IN SIZE																					
															20%	GRANODIORITE FRAGMENTS LESS THAN 5 cm IN DIAMETER.																					
					1.07	-	1.22	m:	100% RECOVERY;						40%	SAND [illegible] WITH LARGE BIOTITE BOOKS (TO 7mm IN DIAMETER), SOME GRAINS > 5cm.																					
															25%	DIORITE WHICH IS FINE GRAINED AND SLIGHTLY MAGNETIC. FRAGMENTS TO 2cm																					
					1.22	-	1.52	m:	95% RECOVERY;						95%	GRANODIORITE WITH CHLORITE ALTERED MAFICS, FRAGMENTS TO 7 cm IN SIZE																					
															5%	GRANODIORITE WHICH IS EXTENSIVELY [illegible] MAFICS.																					
					1.52	-	1.83	m:	100% RECOVERY;						95%	BIOTITE, FLD. BIOTITE SAND WHICH IS OXIDIZED																					
															5%	GRANODIORITE FRAGMENT - CHLORITE ALTERED MAFICS, NOT OXIDIZED, 7cm IN SIZE																					
					1.83	-	2.13	m:	37% RECOVERY;						75%	OXIDIZED BIOTITE, FLD. BIOTITE SAND WITH GRAINS < 1mm Ø (DIAMETER)																					
															25%	UNOXIDIZED CHLORITE ALTERED GRANODIORITE FRAGMENTS TO 8 cm Ø																					
					2.13	-	2.74	m:	100% RECOVERY;						50%	OXIDIZED SAND GRAINS 1-3mm IN DIAMETER																					
															30%	UNOXIDIZED CHLORITE ALTERED GRANODIORITE FRAGMENTS TO 5cm																					
															20%	UNOXIDIZED GNEISS FRAGMENTS TO 7cm																					

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 347**

GRAPHIC LOG m



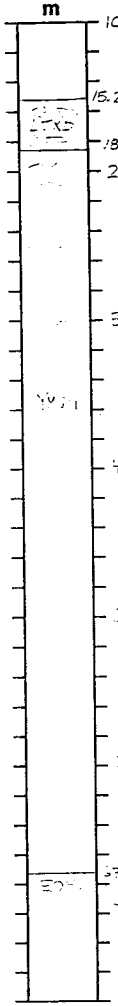
P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					OVERBURDEN CONT...																														
						2.74	–	4.23	m:	64	% RECOVERY;				80% OXIDIZED QTZ, FLD, BI SAND, GRAINS TO 0.5 cm Ø																				
															10% UNOXIDIZED CHLORITE ALTERED GRANODIORITE FRAGMENTS TO 4 cm Ø																				
															10% UNOXIDIZED DIORITE FRAGMENTS TO 3 cm Ø																				
						4.27	–	5.64	m:	90	% RECOVERY;				95% OXIDIZED QTZ, FLD, BI SAND, GRAINS TO 0.5 cm Ø																				
															3% OXIDIZED GRANODIORITE FRAGMENTS TO 6 cm Ø																				
															2% UNOXIDIZED GNEISS FRAGMENTS TO 4 cm Ø																				
						5.64	–	6.71	m:	86	% RECOVERY;				100% OXIDIZED SAND																				
						6.71	–	7.92	m:	88	% RECOVERY;				80% OXIDIZED SAND																				
															18% OXIDIZED GRANODIORITE																				
															2% QUARTZ FRAGMENTS – "SWEATS" FROM GNEISS ?																				
						7.92	–	9.14	m:	70	% RECOVERY;				100% OXIDIZED SAND WITH GRANODIORITE FRAGMENTS MIXED IN TO 2 cm Ø																				
						9.14	–	9.75	m:	30	% RECOVERY;				100% OXIDIZED GRANODIORITE FRAGMENTS																				
						9.75	–	10.97	m:	83	% RECOVERY;				80% OXIDIZED SAND WITH FRAGMENTS OF GNEISS AND GRANODIORITE TO 2.5 cm Ø																				
															10% GNEISS, UNOXIDIZED 15 cm FRAGMENT																				
															10% MIXED GNEISS, GRANODIORITE AND DIORITE FRAGMENTS TO 5 cm Ø.																				
						10.97	–	11.58	m:	97	% RECOVERY;				50% OXIDIZED SAND																				
															20% MIXED GRANODIORITE, LATITE, GNEISS FRAGMENTS – SLIGHTLY OXIDIZED																				
						11.58	–	12.19	m:	95	% RECOVERY;				100% YUKON METAMORPHIC GROUP GNEISS, BLEACHED AND OXIDIZED FRAGMENTS FROM <1 cm TO > 10 cm Ø.																				
P	12.19	15.25	CAP	YMGN	3	W	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0
					LITHOLOGY: OXIDIZED YUKON METAMORPHIC GROUP GNEISS, FOLIATED WITH NUMEROUS QUARTZ BANDS																																
					ALTERATION: WEAK CLAY ALTERATION OF FELDSPARS																																
					MINERALIZATION: NO VISIBLE SX, OR CU, MO MINE.																																
					STRUCTURE: EXTREMELY FRACTURED																																

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 347**

GRAPHIC LOG m



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens
P	15.25	18.50	CAP	LTXD	3	W	o	o
P	18.50	67.67 (E.O.H)	HYP	YMSN	o	o	o	o

P or S	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	o	o	W	o	o	W	T	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
P	o	o	W	o	o	W	T	o	o	o	o	o	o	o	o	o	o	o	o	o	o	W	o	o	W	W	T

LITHOLOGY:
LATITE DYKE WITH SURROUNDED TO ANGULAR FRAGMENTS OF GRANODIORITE, DIORITE AND GNEISS IN A FINE GRAINED LATITE MATRIX. CLAST SIZE FROM 1 cm TO 24 cm DIAMETER.

ALTERATION:
WEAK CLAY OVERPRINT AFFECTING FELDSPARS.

MINERALIZATION:
NO VISIBLE COPPER OR MOLY MINERALIZATION. TRACE AMOUNTS OF PYRITE NOTICED IN ASSOCIATION WITH CARBONATE HEALED BRECCIA ZONE NEAR END OF INTERVAL

STRUCTURE:
WEAKLY FRACTURED; 10 cm ZONE OF CARBONATE MATRIXED BRECCIA @ 18.10 m
UPPER AND LOWER CONTACTS OF DYKE "FUZZY".

LITHOLOGY:
YUKON METAMORPHIC GROUP GNEISS WITH A WELL DEVELOPED FOLIATION. NUMEROUS QTZ VEINS/SWEATS PARALLEL FOLIATION AND ARE A WIDE AS 5 cm Ø. NUMEROUS BOUDINS OF QUARTZ - SOME SHEARED TO PARALLEL FOLIATION - OBSERVED, DARK BROWN/GREY COLOUR. BOUDINS < 1 cm TO > 2.5 cm Ø.

ALTERATION:
ROCK IS FRESH; HOWEVER, CHLORITE CONCENTRATIONS WERE OBSERVED ADJACENT TO CARBONATE VEINLETS, VEINS AND CARBONATE HEALED SHEAR ZONES.

MINERALIZATION
NO VISIBLE COPPER OR MOLY MINERALIZATION. TRACE AMOUNTS OF DISSEMINATED PYRITE NOTED

STRUCTURE:
GENERALLY FOLIATION IN GNEISS RANGES FROM 010° TO 025° TO CORE AXIS, MOST QUARTZ OBSERVED PARALLELS THIS FOLIATION HOWEVER SOME X-CUTTING RELATIONSHIPS WERE NOTED INDICATING A LATER STAGE OF VEINING AT 010° ± 10° C.A. CALCITE COATED FRACTURES AT 031° TO 305° ± C.A. GENERALLY HAD CHLORITE RICH/CHLORITE ENHANCED ENVELOPES ASSOCIATED WITH THEM.
@ 19.20 - 19.30 cm: LTXD; PEBBLE DYKE, UC @ 085° ± C.A., LC // 's UC, LATITE MATRIX W/ LATITE, GNEISS, GRANODIORITE & QTZITE FRAGMENTS.
@ 64.00 - 64.20 cm: SHEAR ZONE, CARBONATE/CHLORITE RICH, UC OBSCURED, LC @ 080° ± C.A.

ACID TEST @ 222' (67.67 m) = −89.5° → CORRECTED = 89.33°
NOTE: 16' (4.88 m) IN THIS HOLE WITH

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-347 (E.S.) Page 1 of 3

LOGGED BY: L.K. BROMMELAND

DATE JULY 10, 1994

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
	0.00	1.07	1.07	0.59	55	Ø		3	4				OVERBURDEN
	1.07	1.22	0.15	0.16	100	Ø		3	4				
	1.22	1.52	0.30	0.13	43	Ø		3	4				
	1.52	1.83	0.31	0.60	100	Ø		3	4				
	1.83	2.13	0.30	0.26	87	Ø		3	4				
	2.13	2.74	0.61	0.78	100	Ø		3	4				
	2.74	4.27	1.53	0.98	64	Ø		3	4				
	4.27	5.64	1.37	1.22	90	Ø		3	4				
	5.64	6.71	1.07	0.92	86	Ø		3	4				
	6.71	7.92	1.21	1.06	88	Ø		3	4				
	7.92	9.14	1.22	0.86	70	Ø		3	4				
	9.14	9.75	0.61	0.18	30	Ø		3	4				
	9.75	10.97	1.22	1.01	83	Ø		3	4				
	10.97	11.58	0.61	0.59	97	Ø		3	4				
	11.58	12.19	0.61	0.58	95	Ø		3	4				
	12.19	13.41	1.22	0.64	52	Ø	5	3	4	30+	1	3	BEDROCK - OVERBURDEN CONTACT @ 12.19 m
	13.41	14.48	1.07	0.45	42	Ø	5	3	4	30+	1	3	
	14.48	15.24	0.76	0.34	45	Ø	5	3	4	30+	1	3	
	15.24	15.85	0.61	0.31	51	Ø	5	3	4	30+	1	3	
	15.85	16.31	0.46	0.14	30	Ø	5	3	4	30+	1	3	
	16.31	17.68	1.37	1.02	74	0.20	7	3	4	16	1	3	
	17.68	18.90	1.22	0.90	74	Ø	7	3	4	20	1	3	
	18.90	20.42	1.52	1.33	88	0.49	7	3	4	17	1	2	
	20.42	21.95	1.53	0.84	55	Ø	7	3	4	16	1	2	
	21.95	22.86	0.91	0.56	61	Ø	7	3	5	12	1	2	
	22.86	23.77	0.91	0.80	88	Ø	7	3	5	11	1	2	
	23.77	24.99	1.22	1.16	95	0.15	7	3	5	16	1	2	
	24.99	26.52	1.53	1.42	93	0.28	9	3	5	12	1	2	
	26.52	27.74	1.22	1.11	91	0.41	10	3	5	9	1	2	
	27.74	29.26	1.52	1.37	90	0.72	10	3	5	11	1	2	
	29.26	29.57	0.31	0.23	74	Ø	5	3	5	8	1	2	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-347 Page 2 of 3

LOGGED BY: L.K. BROMMELAND

DATE JULY 10/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
	29.57	30.94	1.37	1.18	86	0.55	10	3	5	7	1	2	
	30.94	32.16	1.22	1.09	89	0.45	7	3	5	20+	1	3	
	32.16	33.07	0.91	0.63	69	Ø	6	3	5	15+	1	2	
	33.07	33.53	0.46	0.21	46	Ø	5	3	5	10+	1	3	
	33.53	34.14	0.61	0.37	60	Ø	7	3	5	12+	1	2	CRUSHED ZONES
	34.14	35.36	1.22	0.80	66	Ø	7	3	5	11	1	2	
	35.36	35.81	0.45	0.30	66	Ø	5	3	5	20+	1	2	
	35.81	37.34	1.53	0.98	64	Ø	9	3	5	12	1	2	
	37.34	38.71	1.37	1.37	100	0.82	9	3	5	11	1	2	
	38.71	39.93	1.22	1.22	100	0.51	9	3	5	15+	1	2	CRUSHED ZONES
	39.93	40.84	0.91	0.91	100	0.16	7	3	5	15+	1	2	
	40.84	42.37	1.53	1.47	96	0.47	9	3	5	14	1	2	SLICKENSIDES ON 002° FRACTURE @ CHO° & C.A.
	42.37	43.28	0.91	0.63	69	Ø	9	3	5	8	1	2	
	43.28	44.81	1.53	1.41	92	Ø	9	3	5	17	1	2	
	44.81	46.33	1.52'	1.10	72	Ø	7	3	5	16	1	2	
	46.33	47.85	1.52	1.44	95	0.57	10	3	5	13	1	2	
	47.85	49.07	1.22	0.92	75	Ø	7	3	5	15+	1	2	
	49.07	50.75	1.68	1.28	76	0.53	9	3	5	15	1	3	
	50.75	52.43	1.68	1.63	97	0.97	9	3	5	15	1	3	
	52.43	53.64	1.21	1.15	95	0.28	9	3	6	14	1	2	
	53.64	54.56	0.92	0.70	76	0.21	10	3	6	6	1	3	
	54.56	55.47	0.91	0.76	84 ~~100~~	0.19	7	3	6	12	1	3	
	55.47	55.94	0.47	0.32	68	Ø	9	3	6	4	1	2	
	55.94	57.45	1.51	1.43	95	0.39	9	3	6	17	1	2	
	57.45	58.52	1.07	1.03	97	0.33	9	3	6	11	1	3	
	58.52	59.89	1.37	1.19	87	0.83	10	3	6	9	1	3	CALCITE FILLED FRACTURES @ 003° & C.A
	59.89	61.11	1.22	1.36	111	0.99	13	3	6	6	1	2	"
	61.11	61.72	0.61	0.60	98	0.26	12	3	6	4	1	2	
	61.72	63.25	1.53	1.49	97	1.03	10	3	6	11	1	2	
	63.25	64.01	0.76	0.66	87	0.23	10	3	6	6	1	2	
	64.01	64.77	0.76	0.51	67	0.40	10	3	6	5	1	2	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-347 Page 3 of 3

LOGGED BY: L.K. BROMMELAND

DATE JULY 10/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
	64.77	66.29	1.52	1.43	94	0.24	7	3	5	23	1	2	
	66.29	67.67	1.38	1.25	91	0.72	10	3	5	8	1	2	
	(E.O.H.)												

CASINO PROJECT 1994

Drill Hole Summary
94-348

NORTHING:	249,300 N	**AZIMUTH:**	N\A
EASTING:	112,450 E	**DIP:**	-90°
ELEVATION:	760 m		

This vertical hole was drilled for geotechnical information immediately below the confluence of Meloy Creek with Casino Creek. The drill hole did not encounter any visible copper or molybdenum mineralization.

LITHOLOGY

The hole was collared in overburden which extended to a depth of 12.80 metres. The overburden was comprised of boulders, cobbles and pebbles of granodiorite, diorite, gneiss, latite, porphyry and chert mixed with sections of quartz-feldspar-biotite sand. Areas where the sand does not have fragments mixed with it identifies material sampled from the water return of the drill.

The remainder of the hole (12.80 to 46.33 metres) was dominated by coarse grained Dawson Range Granodiorite.

ALTERATION

This drill hole exhibited very little alteration. The rock appeared fresh with minor argillic alteration, evidenced by clay altered feldspars, present to a depth of 22 metres. Mafic minerals altered to biotite and then chlorite were observed for the remainder of the hole.

MINERALIZATION

Oxidation extended to the end of the drill hole and visible copper or molybdenum mineralization was not observed with the exception of one small (less than 1 mm) disseminated grain of molybdenum located at a depth of 45 metres.

STRUCTURE

The hole was weakly fractured from top to bottom. Several carbonate filled fractures at angles of 020°-040°

Lena K. Brommeland
July 10, 1994

DATE	JULY 12, 1994
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

(E.T.)

Drill Hole	94 - 348	Page	1
Geologist	L. BROMMELAND	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0	12.80	—		—	OVBR	—	—	—	OVERBURDEN
12.80	15.85	598030		HYP	WRGD	N/A	<.05	<.001	NO VISIBLE Cu OR Mo MINERAL
15.85	18.90	031		↓	↓	↓	↓	↓	
18.90	21.95	032		↓	↓	↓	↓	↓	
21.95	24.99	033		↓	↓	↓	↓	↓	
24.99	28.04	034		↓	↓	↓	↓	↓	
28.04	31.09	035		↓	↓	↓	↓	↓	
31.09	34.14	036		↓	↓	↓	↓	↓	
34.14	37.03	037		↓	↓	↓	↓	↓	
37.03	40.23	038		↓	↓	↓	↓	↓	
40.23	43.28	039		↓	↓	↓	↓	↓	
43.28	46.33	598040	DUP	↓	↓	↓	↓	↓	
(EOH)									

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER 94 - 348 (E.T.) of 2

SURVEY DATA

SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__ 6	Latite	QM__ 3	Quartz Monzonite
LP__ 6/	Porphyritic Latite	QP__ 3p	Early Patton Porphyry
M___	Microbreccia	QX__ 3x	Homolithic Intrusion Breccia
PP__ 5	Patton Porphyry	WR__ 2	Dawson Range Batholith
IX__ 4	Heterolithic Intrusion Breccia	YM__ 1	Yukon Group Metamorphic

MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	Mol = Molybdenite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	
To = Tourmaline	Cup = Cuprite	Qz = Quartz	
Ep = Epidote	Bn = Bornite	Cal = Calcite	
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	
Py = Pyrite	Mal = Malachite	Slik = Slickensides	

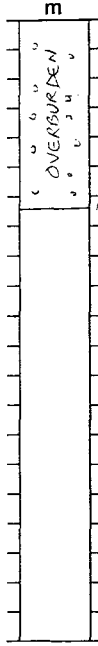
ALTERATION

7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

DRILLING DATA

APPROX. NORTHING	549 300N	
APPROX. EASTING	112 450 N	
APPROX. ELEVATION	760 m	
DATE DRILLING STARTED	JULY 08/94	
DATE DRILLING ENDED	JULY 16, 1994	
TOTAL DEPTH	46.33m	CASING
CASING DEPTH	50' (15.24m) 16' LEFT IN (4.88m)	(IN) OUT
DEPTH OF HQ-NQ REDUCTION		N/A
LOGGED BY	L.K. BROMHELAND	
2ND LOGGER		

GRAPHIC LOG m



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	12.80	CAP	OVBR																														

OVERBURDEN:

FRAGMENTS OF GRANODIORITE, DIORITE, YUKON GROUP GNEISS, LATITE, PORPHYRY AND QUARTZ, FELDSPAR, BIOTITE SAND WHICH WAS SAMPLED FROM THE DRILL. ALL SAND OBSERVED IS OXIDIZED AND LIMONITIC IN APPEARANCE. CHERT MIXED WITH SECTIONS WATER RETURN OF THE CRUMBLY GRANODIORITE FORM. ARE CLAY ALTERED BUT LACK OXIDATION. COBBLES/BOULDERS OBSERVED MAY OR MAY NOT BE OXIDIZED. COMPLETE RUN TO RUN DESCRIPTIONS LISTED BELOW:

0.00 - 0.30m: GRANODIORITE - 100%; OXIDIZED WITH FRAGMENTS TO 11 cm IN LENGTH

0.30 - 1.22m: SAND - 80%; GRAIN SIZE < 1mm, DARK BROWN/ORANGE IN COLOUR, COMPOSED OF QTZ, FLDSPR, BIOTITE
GRANODIORITE - 20%; OXIDIZED WITH FRAGMENTS TO 7 cm IN LENGTH

1.22 - 1.83m: SAND - 100%; GRAIN SIZE AVERAGES 2 mm WITH FRAGMENTS TO 0.5 m. DOMINATELY GRANODIORITE W MINOR DIORITE

1.83 - 3.05m: SAND - 80%; AS ABOVE
GRANODIORITE 15%; FRAGMENTS TO 6 cm WIDTH, OXIDIZED AND FRESH.
PORPHYRY 5%; UNOXIDIZED FRAGMENTS TO 9 cm WIDTH, RARE QTZ PHENO'S IN AN APHANITIC, MAFIC GROUNDMASS

3.05 - 3.96m: SAND - 100%; AS ABOVE

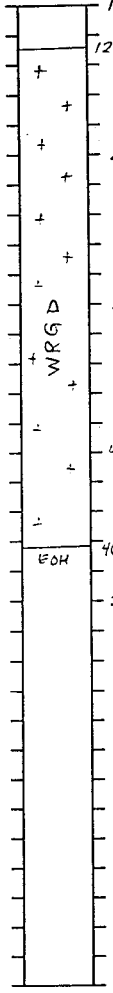
3.96 - 4.57m: SAND - 95%; AS ABOVE
GRANODIORITE - 4%; OXIDIZED WITH FRAGMENTS TO 4.5 cm LENGTH
CHERT - < 1%; GREEN, UNOXIDIZED BUT HIGHLY DECOMPOSED - CAN BE CRUMBLED WITH FINGERS, ANGULAR
LATITE - < 1%; GREEN/GREY COLOUR, SLIGHTLY PORPHYRITIC, FRAGMENTS < 1 cm Ø.

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 348**

GRAPHIC LOG m



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					OVERBURDEN		CONT...																												
							4.57-6.71m:			SAND + BOULDERS AS DESCRIBED ABOVE																											
										GRANODIORITE - 15%; OXIDIZED WITH FRAGMENTS TO 8 cm LENGTH (Ø)																										
										DIORITE - 5%; UNOXIDIZED FRAGMENTS LESS THAN 2.5 cm Ø.																								
										CHERT - <1%; PALE GREEN, SOFT, CAN BE SCRATCHED WITH FINGERNAIL																								
							6.71-7.01m:			GRANODIORITE - 100%; CRUMBLY DECOMPOSED WITH MINOR ORGANIC MATERIAL WHICH IS DARK RED BROWN IN COLOUR. FRAGMENTS < 2 cm Ø																								
							7.01-7.57m:			CORE REMOVED FROM BOX BY ENGINEERS FOR TESTING.																								
							7.57-8.23m:			GRANODIORITE - 95%; CRUMBLY DECOMPOSED AND OXIDIZED, FRAGMENTS < 2cm Ø. SEDIMENTS - 5%; DARK GREEN CHERT, PALE GREEN CHERT, BLACK CHERT/FINE GRAINED DIORITE (?)																								
							8.23-9.75m:			INTERVAL IS NOTED BY DRILLERS AS CAVE FROM UP HOLE. GRANODIORITE DOMINATES WITH LESSER DIORITE AND LATITE AND PORPHYRY.																								
							9.75-10.97m:			GRANODIORITE - 100%; CRUMBLY, UNOXIDIZED GRANODIORITE, FRAGMENTS < 1.0 cm Ø.																								
							10.97-11.28m:			GRANODIORITE - 90%; OXIDIZED FRAGMENTS TO 4 cm Ø																								
										DIORITE - 5%; FINE GRAINED UNOXIDIZED FRAGMENTS TO 2 cm Ø																								
										OTHER - 5%; EXTREMELY ARGILLICALLY ALTERED WHITE FRAGMENTS - SLIGHTLY PORPHYRITIC RELICT TEXTURES REMAIN - NAME (?)																								
							11.28-12.80m:			GRANODIORITE - 100%; ARGILLICALLY ALTERED, SLIGHTLY OXIDIZED THIS MAY BE DECOMPOSED BEDROCK.																								
P	12.80	46.33 (e.o.H.)	HYP	WRGD	o	o	o	o	o	o	T	o	o	T	T	o	o	o	o	o	o	o	T	o	o	o	o	o	o	o	o	T	W	o

LITHOLOGY:

DAWSON RANGE GRANODIORITE, COARSE GRAINED, WEAKLY FRACTURED ROCK WITH MAFIC MINERALS ALTERED TO BIOTITE AND THEN TO CHLORITE.

ALTERATION:

SLIGHT ARGILLIC ALTERATION TO 22 m WITH FELDSPARS SLIGHTLY CLAY ALTERED. MAFICS → BIOTITE → CHLORITE, BUT ROCK APPEARS FRESH FROM 22m TO END OF HOLE.

MINERALIZATION

NO VISIBLE Cu OR Mo MINERALIZATION WITH THE EXCEPTION OF ONE SPEC OF MOLY OBSERVED AT A DEPTH OF 45.10m. TRACE AMOUNTS OF DISSEMINATE PYRITE NOTED.

STRUCTURE

WEAKLY FRACTURED ROCK. SEVERAL CARBONATE FILLED FRACTURES AT ± 020° - 040° TO CORE AXIS NOTED; SOME RADIANITE ASSOCIATED WITH THESE.

ACID TEST @ 152' = 46.33m ⇒ UNCORRECTED READING: -89.6° CORRECTED READING: -88.47°

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-348 (E.T.) Page 1 of 2

LOGGED BY: L.K. BROMMELAND

DATE JULY 12/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
	0.00	0.30	0.30	0.20	67	Ø		3	3				OVERBURDEN
	0.30	1.22	0.92	0.41	44	Ø		3	3				
	1.22	1.83	0.61	0.61	100	Ø		3	3				
	1.83	3.05	1.78	1.45	81	Ø		3	3				NOTE: SOME COBBLES PRESENT ARE NOT OXIDIZED/WEATHERED
	3.05	3.96	0.91	0.79	87	Ø		3	3				
	3.96	4.57	0.61	0.34	56	Ø		3	3				
	4.57	6.71	2.14	1.64	77	Ø		3	3				
	6.71	7.01	0.30	0.37	123	Ø		3	3				
	7.01	7.57	0.56										CORE FROM THIS INTERVAL REMOVED BY ENGINEER, T.W. CROZIER, FOR SAMPLING/TESTING
	7.57	8.23	0.66	0.45	68	Ø		3	3				
	8.23	9.75	1.52	0.40	26	Ø		3	4				CAVE, IN FORM OF ROCK FRAGMENTS, PRESENT
	9.75	10.97	1.22	0.42	34	Ø		3	4				CRUMBLY BROKEN ARGILLICALLY ALTERED RX
	10.97	11.28	0.31	0.25	81	Ø		3	4				
	11.28	12.19	0.91	0.10	11	Ø		3	4				
	12.19	12.80	0.61	0.48	79	Ø		3	4				
	12.80	13.72	0.92	0.61	66	Ø	5	3	4	50+	1	4	OVERBURDEN/BEDROCK CONTACT @ 12.80m
	13.72	13.87	0.15	0.10	67	Ø	5	3	4	50+	1	4	
	13.87	14.63	0.76	0.63	83	Ø	5	3	4	50+	1	4	
	14.63	15.24	0.61	0.55	90	Ø	5	3	4	50+	1	4	
	15.24	15.85	0.61	0.40	66	Ø	6	3	4	50+	1	4	
	15.85	17.22	1.37	1.03	62	Ø	7	3	4	16	1	2	
	17.22	18.90	1.68	1.43	85	0.80	10	3	5	11	1	2	
	18.90	20.42	1.52	1.03	67	Ø	6	3	5	23	1	3	
	20.42	21.95	1.53	1.09	71	Ø	6	3	5	22	1	3	
	21.95	23.45	1.50	1.22	81	Ø	7	3	5	21	1	3	20cm SECTION OF CRUSHED ROCK <5cm Ø.
	23.45	24.99	1.54	1.16	75	0.52	7	3	5	19	1	2	
	24.99	26.52	1.53	1.41	92	0.31	7	3	5	20	1	3	
	26.52	28.04	1.52	1.33	87	0.26	9	3	5	14	1	2	
	28.04	29.57	1.53	1.51	99	1.01	10	3	5	13	1	3	
	29.57	31.09	1.52	1.01	66	0.37	7	3	5	16	1	2	
	31.09	32.61	1.52	1.05	69	0.22	7	3	5	21	1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-348 Page 2 of 2

LOGGED BY: L.K. BROMMELAND

DATE JULY 12/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
	32.61	33.22	0.61	0.38	62	Ø	5	3	5	16	1	3	
	33.22	34.14	0.92	0.75	82	0.20	6	3	5	17	1	3	
	34.14	35.51	1.37	0.73	53	Ø	5	3	5	25+	1	2	CRUMBLY BROKEN ZONE 15 cm WIDE AT END OF INTERVAL
	35.51	37.03	1.52	1.26	83	Ø	6	3	5	34	1	2	
	37.03	38.40	1.37	1.07	78	Ø	7	3	5	20	1	2	
	38.40	39.62	1.22	0.98	80	0.59	9	3	5	9	1	2	CARBONATE COATED FRACTURES
	39.62	40.23	0.61	0.56	92	0.32	9	3	5	7	1	2	
	40.23	41.76	1.53	1.26	82	0.53	7	3	5	20	1	2	
	41.76	43.28	1.52	1.35	89	0.37	7	3	5	23	1	1	SLICKENSIDES NOT DISCERNABLE
	43.28	44.81	1.53	1.32	86	0.15	7	3	5	18	1	3	
	44.81	46.02	1.52	0.95	63	Ø	7	3	5	13	1	3	
	46.02	46.33	0.31	0.28	90	0.19	10	3	5	1	1	3	
	(E.O.H.)												

CASINO PROJECT 1994

Drill Hole Summary
94-349

NORTHING:	248,400 N	AZIMUTH:	N\A
EASTING:	111,650 E	DIP:	-90°
ELEVATION:	1,290 m		

This vertical hole was drilled for geotechnical information within the confines of proposed Dam Site #2. The drill hole did not encounter any visible copper or molybdenum mineralization.

LITHOLOGY

The hole was collared in overburden which extended to a depth of 8.38 metres. The overburden was comprised of boulders, cobbles and pebbles of granodiorite with lesser quantities of oxidized quartz-feldspar-biotite sand, clay/silt and organic material. Permafrost was noted in the core at the time of drilling (see engineering logs for more detail)

The remainder of the hole (8.38 to 32.00 metres) was dominated by xenolithic, mafic rich Dawson Range Granodiorite cross-cut by several fine grained felsic and pegmatite dykes and dyklets ranging in size from 1 centimetre to 40 centimetres.

ALTERATION

This drill hole exhibited very little alteration with hornblende sites now occupied by biotite and chlorite replacing biotite. The rock may have a weak propylitic overprint as it is quite calcareous and trace amounts of epidote were observed. Chlorite often coats fractures.

MINERALIZATION

Oxidation extended to the end of the drill hole and visible copper or molybdenum mineralization was not observed. Arsenopyrite was observed in a microfracture at approximately 21 metres depth.

STRUCTURE

The hole was weakly fractured from top to bottom. Several carbonate filled fractures and veinlets formed a weak stockwork within the granodiorite. The felsic and pegmatite dyklets/dykes generally were oriented at 035°-045° to core axis. Slickensides observed on chlorite coated fractures at 015° to core axis were near horizontal in orientation.

Lena K. Brommeland
July 12, 1994

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER (E.U) **94 - 349**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

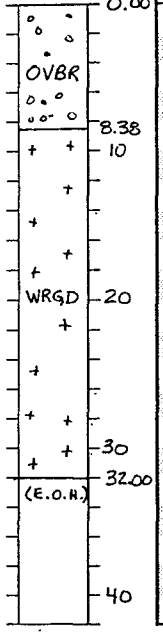
MINERALIZATION			ALTERATION
Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	7 = Potassic
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	6 = Ser.-clay-chlor.
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	5 = Phyllic (Sericite)
To = Tourmaline	Cup = Cuprite	Qz = Quartz	4 = Phyllic (K-Spar)
Ep = Epidote	Bn = Bornite	Cal = Calcite	3 = Argillic (Kaolinite)
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	2 = Argillic (Montm.)
Py = Pyrite	Mal = Malachite	Slik = Slickensides	1 = Propylitic
		Mol = Molybdenite	

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES			
LT__ 6	Latite	QM__ 3	Quartz Monzonite
LP__ 6/	Porphyritic Latite	QP__ 3p	Early Patton Porphyry
M___	Microbreccia	QX__ 3x	Homolithic Intrusion Breccia
PP__ 5	Patton Porphyry	WR__ 2	Dawson Range Batholith
IX__ 4	Heterolithic Intrusion Breccia	YM__ 1	Yukon Group Metamorphic

DRILLING DATA			
APPROX. NORTHING	243,200		
APPROX. EASTING	111,650		
APPROX. ELEVATION	1290 m		
DATE DRILLING STARTED	JULY 30		
DATE DRILLING ENDED	JULY 31		
TOTAL DEPTH	32.00 m	CASING	
CASING DEPTH	23'5.20	IN	OUT
DEPTH OF HQ-NQ REDUCTION		N/A	
LOGGED BY	LENA K. BROMMELAND		
2ND LOGGER			

GRAPHIC LOG



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	8.38	CAP	OVBR																															

OVERBURDEN: BROKEN ROCK AND BOULDERS, WHICH ARE DOMINATELY OF GRANODIORITE COMPOSITION, WITH LESSER QUANTITIES OF OXIDIZED QUARTZ, FELDSPAR, BIOTITE I GRANODIORITE SAND, CLAY/SILT AND ORGANIC MATERIAL. PERMAFROST WAS NOTED IN CORE AT TIME OF DRILLING (SEE ENGINEERING LOGS FOR MORE DETAIL). RUN TO RUN GEOLOGIC DESCRIPTIONS FOLLOW:

0.00 – 0.30 m : NO CORE RECOVERED

0.30 – 1.22 m : 80% SAND; AS ABOVE WITH GRAIN SIZE 1-3mm. GRANODIORITE COMPOSITION ASSOC W LARGER GRAINS
20% GRANODIORITE; FRAGMENTS TO 4 cm IN DIAMETER, OXIDIZED

1.22 – 1.83 m : 90% SILT; BLACK, ORGANIC RICH MATERIAL WITH MINOR GRANODIORITE FRAGMENTS
10% GRANODIORITE; FRAGMENTS TO 1cm, GENERALLY < 2mm IN SILT – OXIDIZED

1.83 – 2.44 m : 80% SAND; OXIDIZED AS ABOVE WITH GRAINS <1mm TO 3mm SIZE. FRAGMENTS TO 1cm OF WRGD
15% SILT; BLACK HUMOUSY MATERIAL WITH ABUNDANT ORGANICS
5% FERRICRETE; OXIDIZED, TEXTURE DESTROYED, LIMONITIC COMPOSITION W MG-OXIDE COATED SURFACES

2.44 – 3.05 m : NO CORE RECOVERED

3.05 – 3.66 m : 50% SAND; AS ABOVE, GRAIN SIZE 1 – 2mm
50% GRANODIORITE; UNOXIDIZED, FRAGMENTS TO 8.5 cm LENGTH.

3.66 – 4.27 m : 95% GRANODIORITE; LARGE CUBES TO 12 cm, SMALLER CHIPS IN SALT TO 2 cm DIAMETER
5% SILT; DARK BROWN WITH GRANODIORITE FRAGMENTS.

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 349**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					OVERBURDEN CONT...																															
		4.27					4.88 m:		100% GRANODIORITE; FRAGMENTS TO 26 cm IN LENGTH, UNOXIDIZED																											
	4.88	–	5.49 m:		100% GRANODIORITE; OXIDIZED AND UNOXIDIZED FRAGMENTS 1–5 cm IN DIAMETER																																	
	5.49		6.55 m:		80% GRANODIORITE; AS ABOVE																																	
					20% GNEISS; FRAGMENTS TO 3 cm DIAMETER, QUARTZ RICH, OXIDIZED																																	
	6.55		7.62 m:		95% GRANODIORITE; AS ABOVE																																	
					5% GNEISS; AS ABOVE																																	
	7.62	–	8.38 m:		100% GRANODIORITE; OXIDIZED, WITH FRAGMENTS 3–6 cm IN DIAMETER																																	
D	8.38	32.00	HYP.	WRSD	0	0	0	0	0	0	W	0	T	M	T	0	0	0	0	0	0	0	0	T	T	-	0	0	0	0	0	0	W	W	T
	(E.O.H.)																																		
					LITHOLOGY: XENOLITHIC GRANODIORITE, WITH DIORITE XENOLITHS TO 4 cm IN LENGTH, XENO'S ARE PARTIALLY ASSIMILATED AND IMPART A MAFIC RICH LOOK TO THE UNIT. THE UNIT IS CROSS CUT BY SEVERAL FINE GRAINED FELSIC AND PEGMATITE DYKES AND DYKLETS, RANGING IN SIZE FROM 1 cm TO 40 cm IN WIDTH, WHICH ARE PINK IN COLOUR. RED/BRICK ORANGE, FE-SILICATE MINERAL OFTEN COATS FRACTURE SURFACES. (N.B. THIS UNIT LOOKS SIMILAR TO ROCKS ENCOUNTERED ON OUTER EDGE OF DEPOSIT EAST OF THE CASINO FAULT.)																																			
					ALTERATION: ROCK RELATIVELY FRESH WITH MAFIC HORNBLENDE SITES NOW OCCUPIED BY BIOTITE AND CHLORITE (CHLORITE REPLACING BIOTITE). HOST ROCK IS QUITE CALCAREOUS. THE ROCK MAY BE EXHIBITING A WEAK PROPYLITIC OVERPRINT, AS TRACE AMOUNTS OF EPIDOTE WERE NOTED. TRACE AMOUNTS OF MAGNETITE AND HEMATITE AFTER MAGNETITE NOTED. CHLORITE OFTEN COATS FRACTURES																																			
					MINERALIZATION: NO VISIBLE COPPER OR MOLY MINERALIZATION, TRACE PYRITE OBSERVED. ARSENOPYRITE IN A FRACTURE @ ~21 m NOTED.																																			
					STRUCTURE: SEVERAL FELSIC PEGMATITE DYKES NOTED. NUMEROUS CARBONATE VEINLETS (< 0.3 cm DIAMETER) FORM A WEAK STOCKWORK IN THE GRANODIORITE.																																			
					@ 14.50 – 14.75 m: SHEAR ZONE; PALE GREEN, CALCAREOUS, UC & LC ARE UNDISCERNABLE. SLICKENSIDES ON 015° FRACTURE @ 090° TO C.A. FRACTURE CHLORITE COATED AND X-CUTS CARBONATE VNLT (@ 033° C.A.)																																			
					@ 17.22 – 17.62 m: PEGMATITE DIKE, UC @ 035° & C.A., LC @ 045° & C.A.																																			
					@ 19.45 – 20.00 m: PEGMATITE DIKE. UC AND LC @ 045° & C.A.																																			

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 379**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					STRUCTURE		CONT..																											
							@ 25		00m - S	ICKENSIDES				CON	022° FRACTURE @ 085° TO C.A. (NEAR HORIZONTAL)																			
															FRACTURE — POLISHED CHLORITE																			
	NOTE:	ACID TEST @	105'		32.	00m	@	UNC					@	- 9	1.2	%		C					@	- 9	6	°								

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-349 (E.U.) Page 1 of 1

LOGGED BY: L. K. BROMMELAND

DATE JULY 14/94

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.00	0.30	0.30	~~0~~	~~0~~								NO CORE RECOVERED
	0.30	1.22	0.92	0.10	11	0		2	2				OVERBURDEN
	1.22	1.83	0.61	0.05	8	0		2	2				
	1.83	2.44	0.61	0.30	49	0		3	3				ORGANICS / SAND
	2.44	3.05	0.61	~~0~~	~~0~~								NO CORE RECOVERED
	3.05	3.66	0.61	0.13	21	0		3	4				
	3.66	4.27	0.61	0.14	23	0		3	4				
	4.27	4.88	0.61	0.32	52	0.25		3	4				BOULDER - 0.25 cm WIDTH
	4.88	5.49	0.61	0.14	23	0		3	4				
	5.49	6.55	1.06	0.25	23	0		3	4				
1-2	6.55	7.62	1.07	0.85	79	0		3	3				
	7.62	8.38	0.76	0.41	54	0		3	3				
	8.38	9.30	0.92	0.77	84	0	5	3	3	50+	1	3	OVERBURDEN / BEDROCK CONTACT @ 8.38m
	9.30	9.75	0.45	0.42	93	0	5	3	3	20+	1	2	
	9.75	11.28	1.53	1.39	91	0	7	3	4	27	1	2	
2-3	11.28	12.80	1.52	1.44	95	0.36	10	3	5	9	1	2	
	12.80	14.33	1.53	1.08	71	0.18	7	3	5	17	1	2	
3-4	14.33	15.70	1.37	1.40	102	0.44	9	3	5	15	1	2	
	15.70	17.22	1.52	1.52	100	0.72	9	3	5	14	1	2	
	17.22	18.90	1.68	1.51	90	0.68	12	3	5	8	1	3	
4-5	18.90	20.42	1.52	1.26	83	0.22	7	3	5	24	1	2	
	20.42	21.95	1.53	1.30	85	0.21	9	3	5	16	1	2	
	21.95	23.16	1.21	1.10	91	0.18	9	3	5	14	1	3	
5-6	23.16	24.99	1.83	1.79	98	0.89	7	3	5	20+	1	1	POLISHED CHLORITE ON FRACTURE SURFACES
	24.99	26.21	1.22	0.91	75	0.20	7	3	5	18+	1	1	"
6-7	26.21	27.74	1.53	1.27	83	0.16	9	3	5	15	1	2	
	27.74	29.26	1.52	1.38	91	0.93	12	3	5	8	1	3	
	29.26	29.87	0.61	0.31	51	0	9	3	5	3	1	3	
7-8	29.87	31.09	1.22	1.22	100	1.10	13	3	5	5	1	3	
	31.09	32.00	0.91	1.02	112	0.52	10	3	5	7	1	3	

DATE	JULY 14, 1994
RIG #	6 (E.U.)

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 349	Page	1
Geologist	L. BROMMELAND	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0.00	8.38	—	—	—	OVBR	—	—	—	OVERBURDEN
8.38	11.28	598041		HYP	WRGD	N/A	<.05	<.001	NO VISIBLE CU OR MO MINZ.
11.28	14.33	042		↓	↓	↓	↓	↓	
14.33	17.22	043							
17.22	20.42	044							
20.42	23.16	045	DUP						
23.16	26.21	046							
26.21	29.26	047							
29.26	32.00	598048							
(EOH)									

CASINO PROJECT - 1994
Drill Hole Summary
94-350

NORTHING:	248,200 N	AZIMUTH:	N/A
EASTING:	111,450 E	DIP:	-90
ELEVATION:	1,290 m		

This vertical hole was drilled for geotechnical information withing the confines of proposed Dam Site #2. The drill hole did not encounter any visible copper or molybdenum mineralization.

LITHOLOGY

The hole was collared in overburden which extended to a depth of 12.80 metres. The overburden was comprised of quartz-feldspsar-biotite sand, cobbles and pebbles of granodiorite, diorite and gneiss, silt and minor clay. The sand was oxidized whereas cobbles and pebbles observed were generally unoxidized.

The remainder of the hole (12.80 to 76.81 metres) was dominated by mafic rich Dawson Range Granodiorite cross-cut by several fine grained pegmatite dykes and dyklets ranging in size from less than 2 centimetres to 3 metres. From the overburden/bedrock contact to a depth of approximately 25 metres the granodiorite is extremely decomposed and weathered. At 64 metres depth the unit grades into a pale green porphyritic unit with pinkish plagioclase phenocrysts (porphroblasts ?) up to 2 centimetres in diametre. At a depth of 74 metres the unit has graded back into a coarse grained granodiorite. The porphritic unit may be a dike; however, the contacts were not discernable.

ALTERATION

The granodiorite was relatively fresh with the mafic sites now occupied by biotite and chlorite replacing biotite indicating a possible weak propylitic assemblage as carbonate was observed throughout the drill hole. Zones of clay (argillic) alteration were noted adjacent to shear zones and in the upper 20 metres of the drill hole.

MINERALIZATION

Visible copper or molybdenum mineralization was not noted in this drill hole. Trace amounts of magnetite and hematite were noted.

STRUCTURE

The rock in this hole was weakly to moderately fractured with slickensides and shear zones observed. A major shear zone was encountered at 72 metres depth and the hole bottomed in this structure.

Lena K. Brommeland
July 22, 1994

DATE	JULY 18, 1994
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 350	Page	1
Geologist	L. BROMILEY	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE Mo82 %	COMMENTS
0	12.80	—	—	—	OVBR	—	—	—	OVERBURDEN
12.80	15.85	598049		CAP	WRGD	3	<.05	<.001	
15.85	18.90	50		↓	↓	↓			ENGINEERS REPORTED VOIDING FROM 53'9" → 53'11" = (16.23 – 16.35m)
18.90	21.95	51		↓	↓	↓			
21.95	24.99	52		HYP	WRGD	N/A			
24.99	28.04	53							
28.04	30.63	54							
30.63	34.14	55							
34.14	36.73	56							
36.73	40.23	57							
40.23	43.28	58							
43.28	46.33	59							
46.33	49.73	60	DUP						LAB DUPLICATE
49.73	52.43	61							
52.43	55.42	62							
55.42	58.52	63							
58.52	61.57	64							
61.57	64.92	65							
64.92	67.36	66							
67.36	70.56	67							
70.56	73.76	68							
73.76	76.81	598069		↓	↓	↓	↓	↓	
(EOH)									

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER 94 - 350

SURVEY DATA

SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING
Date		
By		

INTERVAL: P = Primary; S = Secondary

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION

Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite	Mol = Molybdenite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite	
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc	
To = Tourmaline	Cup = Cuprite	Qz = Quartz	
Ep = Epidote	Bn = Bornite	Cal = Calcite	
Lim = Limonite	Sft = Sulphates	Frac = Fracturing	
Py = Pyrite	Mal = Malachite	Slik = Slickensides	

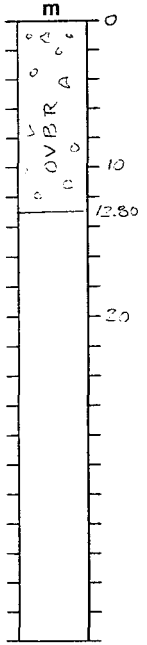
ALTERATION

7 = Potassic; 6 = Ser.-clay-chlor.; 5 = Phyllic (Sericite); 4 = Phyllic (K-Spar); 3 = Argillic (Kaolinite); 2 = Argillic (Montm.); 1 = Propylitic

DRILLING DATA

APPROX. NORTHING	248 200N		
APPROX. EASTING	111,450E		
APPROX. ELEVATION	1290 m		
DATE DRILLING STARTED			
DATE DRILLING ENDED			
TOTAL DEPTH	76.81m	CASING	
CASING DEPTH		IN	OUT
DEPTH OF HQ-NQ REDUCTION			
LOGGED BY	L.K. BROMMELAND		
2ND LOGGER			

GRAPHIC LOG m



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	12.80	—	OVBR																															
					OVERBURDEN: MIXED QUARTZ-FELDSPAR-BIOTITE SAND, GRANODIORITE COBBLES AND PEBBLES, DIORITE COBBLES AND PEBBLES, GNEISS COBBLES AND PEBBLES, SILT AND MINOR CLAY. THE SAND IS OXIDIZED WHEREAS COBBLES AND PEBBLES ARE MORE OFTEN UNOXIDIZED. A RUN BY RUN DESCRIPTION FOLLOWS:																																
	0.00	0.46 m	-	0.46 m	100% SILT; DARK BROWN; WITH ABUNDANT MICA & ORGANICS																																
	0.46	0.91 m	-	0.91 m	80% SILT; LIGHT BROWN LACKS ORGANICS																																
					10% SILT; DARK BROWN W ABUNDANT ORGANICS AND MICA																																
					10% GRANODIORITE; OXIDIZED PEBBLES TO 3 cm IN DIAMETER																																
	0.91	1.22 m	-	1.22 m	100% GRANODIORITE; FRESH COBBLES TO 4 cm IN DIAMETER																																
	1.22	2.44 m	-	2.44 m	80% GRANODIORITE; OXIDIZED COBBLES TO 5 cm IN DIAMETER																																
					20% GNEISS; FRESH, DARK GREY COBBLES TO 4 cm IN DIAMETER																																
	2.44	3.66 m	-	3.66 m	90% GRANODIORITE; OXIDIZED COBBLES TO 6 cm IN DIAMETER																																
					10% DIORITE; FRESH COBBLES TO 8 cm IN DIAMETER																																
	3.66	4.88 m	-	4.88 m	60% GRANODIORITE; OXIDIZED COBBLES TO 7 cm IN DIAMETER																																
					40% DIORITE; FRESH COBBLES TO 6 cm IN DIAMETER																																
	4.88	5.79 m	-	5.79 m	80% SAND; OXIDIZED D-F-B SAND W GRAINS FROM 1-3 mm																																
					10% GNEISS; COBBLES TO 7.5 cm DIAMETER (D)																																
					5% GRANODIORITE; OXIDIZED PEBBLES TO 3 cm Ø (NOTE: SHARP CONTACT BETWEEN GD AND DR OBSERVED IN ONE CUTTING)																																
					5% DIORITE; FRESH PEBBLES TO 2 cm Ø																																

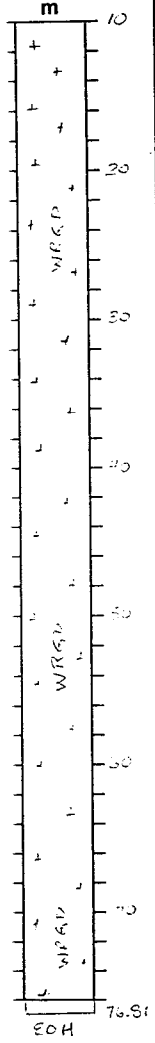
* NOTE: Ø = DIAMETER

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 350**

GRAPHIC LOG m



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					OVERBURDEN CONT.,,																														
	5.39	6.40			–				:	100%					GRANODIORITE; OXIDED AND FRESH COBBLES TO 6 cm ϕ																				
	6.40	6.71 m			–				:	100%					GNEISS; OXIDIZED COBBLES TO 4 cm ϕ																				
	6.71	8.23 m			–				:	80%					SAND; OXIDIZED QUARTZ-FELDSPAR-BIOTITE (Q-F-B) SAND, GRAIN SIZE <1mm TO 3mm.																				
										15%					GNEISS; OXIDIZED AND FRESH COBBLES TO 10 cm ϕ																				
										5%					GRANODIORITE; PEBBLES TO 3cm ϕ WHICH ARE OXIDIED																				
	8.23	9.75 m			–				:	85%					SAND, OXIDIZED Q-F-B SAND W/ GRAINS FROM 1-2mm.																				
										10%					GRANODIORITE; OXIDIZED COBBLES (60%) AND PEBBLES (40%).																				
										5%					GNEISS; FRESH COBBLES TO 4 cm ϕ.																				
	9.75	11.28 m			–				:	100%					SAND; OXIDIZED Q-F-B SAND WITH GRAINS 1-3mm. MINOR ORGANICS NOTED.																				
	11.28	12.80 m			–				:	50%					SAND, OXIDIZED, Q-F-B SAND GRAINS <1mm ϕ.																				
										50%					GRANODIORITE; COBBLES TO 4 cm m, PEBBLES <1cm of OXIDIZED GRANODIORITE.																				
P	12.80	20.57	CAP	WRCD	3	M	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	T	0	0	0	0	0	0	0	0	W	0
					LITHOLOGY: DAWSON RANGE GRANODIORITE. ROCK IS EXTREMELY DECOMPOSED – RESIDUAL BEDROCK – TO THE POINT WHERE IT CAN BE CRUMBLED INTO SAND BY SQUEEZING IT BETWEEN ONES FINGERS.																																
					ALTERATION: ROCK IS CLAY ALTERED – FELDSPARS COME TO CLAY, BIOTITE HAS REPLACED MAFIC MINERALS. ROCK IS EXTREMELY OXIDIZED																																
					MINERALIZATION: NO VISIBLE COPPER OR MOLY MINERALIZATION																																
					STRUCTURE: WEAKLY FRACTURED ROCK.																																
S	20.57	76.81 (EOH)	HYP	WRCD	0	0	0	0	0	0	W	0	0	T	0	0	0	0	0	0	0	0	0	T	T	0	0	0	0	0	0	0	W	W	W
					LITHOLOGY: DAWSON RANGE GRANODIORITE. PALE GREY, WITH MAFIC RICH AREAS IN THIS MEDIUM GRAINED ROCK WHICH IS CROSS CUT BY PEGMATITE DYKES. NOTE THAT AT APPROXIMATELY 65 METRES THIS UNIT GRADES INTO A DARK GREY PORPHYRITIC ? DIORITE, AND BY 74 m THE UNIT HAS GRADED BACK INTO																																

EOH 76.81

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 -** [illegible]

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
					ALTERATION		THE ROCK		IS						WITH																				
							CHLORITE		INDICATING						A												WEAK								
																	ZONES																	
					MINERALIZATION																														
					STRUCTURE																														
							THE ROCK		IS																										
							ZONES OF		SERICITE																										
								5	25																									
								0	00																									
								7	70.81																									

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-350 Page 1 of 2

LOGGED BY: TC Becker

DATE July 18

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.46	0.91	0.45	0.45	100	"	4	0	1	na	na	na	OVERBURDEN sand/clay with 10% rock fragments
1	0.91	1.22	0.31	0.20	64	0	4	0	1	"	"	"	"
1	1.22	2.44	1.22	0.25	21	0	4	0	1	"	"	"	"
1	2.44	3.66	1.22	0.15	12	0	4	0	1	"	"	"	"
1	3.66	4.88	1.22	0.15	12	0	4	0	1	"	"	"	"
1	4.88	5.79	0.91	0.62	68	0	4	0	1	"	"	"	"
2	5.79	6.40	0.61	0.20	33	0	4	0	1	"	"	"	"
2	6.40	6.71	0.31	0.09	29	0	4	0	1	"	"	"	"
2	6.71	8.23	1.52	0.85	56	0	4	0	1	"	"	"	"
2	8.23	9.75	1.52	0.62	41	0	4	0	1	"	"	"	"
2	9.75	11.28	1.53	0.68	44	0	4	0	1	"	"	"	"
2	11.28	12.80	1.52	0.60	39	0	4	0	1	"	"	"	"
3	12.80	14.33	1.53	0.33	22	0	4	0	1	"	"	"	"
3	14.33	15.85	1.52	1.38	91	0	4	1	2	"	"	"	Decomposed Bedrock? - texture remains
3-4	15.85	17.37	1.52	1.32	87	0	6	1	2	"	"	"	" "
4	17.37	18.90	1.53	1.28	84	0	7	1	2	na	na	na	" "
4	18.96	20.57	1.61	1.45	87	0	7	1	2	16	1	3	Bedrock to residual
4-5	20.57	21.95	1.38	1.28	93	0	7	2	3	8	1	3	Bedrock
5	21.95	23.32	1.37	0.85	62	0	7	2	3	7	1	3	
5	23.32	24.99	1.67	1.20	72	0.42	7	3	4	6	1	3	
5-6	24.99	26.52	1.53	1.43	94	0.31	9	3	4	12	1	3	
6	26.52	28.04	1.52	0.85	56	0	8	3	4	10	1	3	
6	28.04	29.11	1.07	0.70	65	0	7	3	4	15	1	3	
6-7	29.11	30.63	1.52	1.46	96	0.85	9	3	4	8	1	3	
7	30.63	32.16	1.53	1.15	75	0	7	3	4	12	1	3	
7	32.16	33.28	1.12	1.12	100	0.18	7	3	4	7	1	3	
7	33.38	34.14	0.76	0.71	93	0	9	3	4	4	1	3	
7-8	34.14	35.05	0.91	0.85	93	0.32	8	3	4	7	1	2	
8	35.05	36.73	1.68	1.51	90	0.67	9	4	4	10	1	3	
8	36.73	38.25	1.52	1.46	96	0.87	9	4	4	9	1	3	lost of kmarite
8-9	38.25	38.71	0.46	0.39	85	0.18	8	4	4		1	3	

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-350 Page 2 of 2

LOGGED BY: T.C Becker

DATE July 18

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
9	38.71	39.17	046	0.24	52	0	6	3	4	4	1	3	
9	39.17	40.23	1.06	090	85	0.27	8	3	5	6	1	3	
9	40.23	41.76	1.53	136	89	0.44	8	4	5	12	1	3	
9-10	41.76	43.28	1.52	148	97	107	9	4	5	3	1	3	
10	43.28	44.81	1.53	153	100	093	8	4	5	6	1	3	
10-11	44.81	46.02	1.21	0.88	73	041	8	3	5	4	1	3	
11	46.02	46.33	0.31	021	68	0	7	3	5	3	1	3	
11	46.33	47.85	1.52	152	100	018	7	3	5	7	1	3	
11	47.85	49.23	1.38	094	68	0	7	3	5	8	1	2	
11-12	49.23	50.90	1.67	149	89	013	7	3	5	7	1	3	
12	50.90	51.82	092	069	75	015	7	3	5	4	1	3	
12	51.87	52.43	061	050	82	015	8	3	5	3	1	3	
12	52.43	53.34	091	068	75	0	7	3	5	3	1	3	
12-13	53.34	54.86	1.52	146	96	047	8	4	5	8	1	3	
13	54.86	55.47	0.61	048	79	0	7	4	5	4	1	3	
13	55.47	57.00	1.53	153	100	056	8	3	5	4	1	3	
13-14	57.00	58.52	1.52	127	83	042	7	3	5	8	1	2	
14	58.52	59.13	061	039	64	016	6	3	5	4	1	3	
14	59.13	60.35	1.22	079	65	0	6	3	5	3	1	3	59.13m [illegible]
14	60.35	61.57	1.22	067	55	0	7	3	4	4	2	3	
14-15	61.57	63.09	1.52	123	81	0	7	3	4	10	1	3	
15	63.09	64.92	1.83	053	29	0	6	3	4	5	2	3	
15	64.92	66.14	1.22	097	79	0	6	3	4	9	1	3	
15-16	66.14	67.36	1.22	1.22	100	039	7	3	4	8	1	3	
16	67.36	68.88	1.52	147	97	065	7	3	4	5	2	3	
16	68.88	70.56	1.68	157	93	090	9	3	4	8	1	3	
16-17	70.56	72.24	1.68	144	86	100	8	3	4	3	1	3	
17	72.24	73.76	1.52	098	64	0	7	2	3	8	2	3	
17	73.76	75.29	1.53	153	100	0.29	7	2	3	3	2	3	
18	75.29	76.81	1.52	092	60	015	7	2	3	8	2	3	
		EOH											

SUMMARY - HOLE 94-351

NORTHING: 48500m
EASTING: 11500m

DATE: July 26, 1994
LOGGED BY: T. C. Becker

This hole was drilled for geotechnical information in the area of dam site number 2. The hole encountered no significant mineralization. The hole intersected overburden to a depth of 14.05 m and typical Dawson Range Granodiorite to the end of the hole at 31.09 m. Alteration consists of weak propylitic with zones of fresh rock, and a trace of supergene argillic clays in the overburden. No major shear structures were encountered but the hole contained moderately to well broken rock.

LITHOLOGY:

The hole encountered overburden to a depth of 14.05 m. Overburden had very poor recovery and consisted of dark grey clay with minor zones of clay/sand mixture to a depth of 8.84 m. From 8.84 to 12.80 m overburden was a mixture of 60 % rock fragments, up to 5 cm in size, and 40 % light brown well sorted sands. From 12.80 to 14.05 m it was well sorted sands with very minor rock fragments up to 1 cm in size.

The rest of the hole is typical Dawson Range Granodiorite.

ALTERATION:

The hole is dominated by weak to trace propylitic alteration with zones of fresh rock. Propylitic alteration is characterized by trace epidote, calcite, pyrite, trace hematite, and narrow discontinuous chlorite veinlets. Trace amounts of supergene clays occur in the overburden and top couple meters of bedrock.

STRUCTURE:

The hole ranges from weak to well broken with no major shear structures. Minor weak shear zones occur from 14.0 to 14.67 m and occasionally down the hole. These shear structures are characterized by a weak foliation and alignment of the mafic minerals.

MINERALIZATION:

No visible copper or molybdenum mineralization was noted. Trace amounts of pyrite occurred as disseminations as well as hematite. Trace amounts of limonite occurred along fractures to the bottom of the hole.

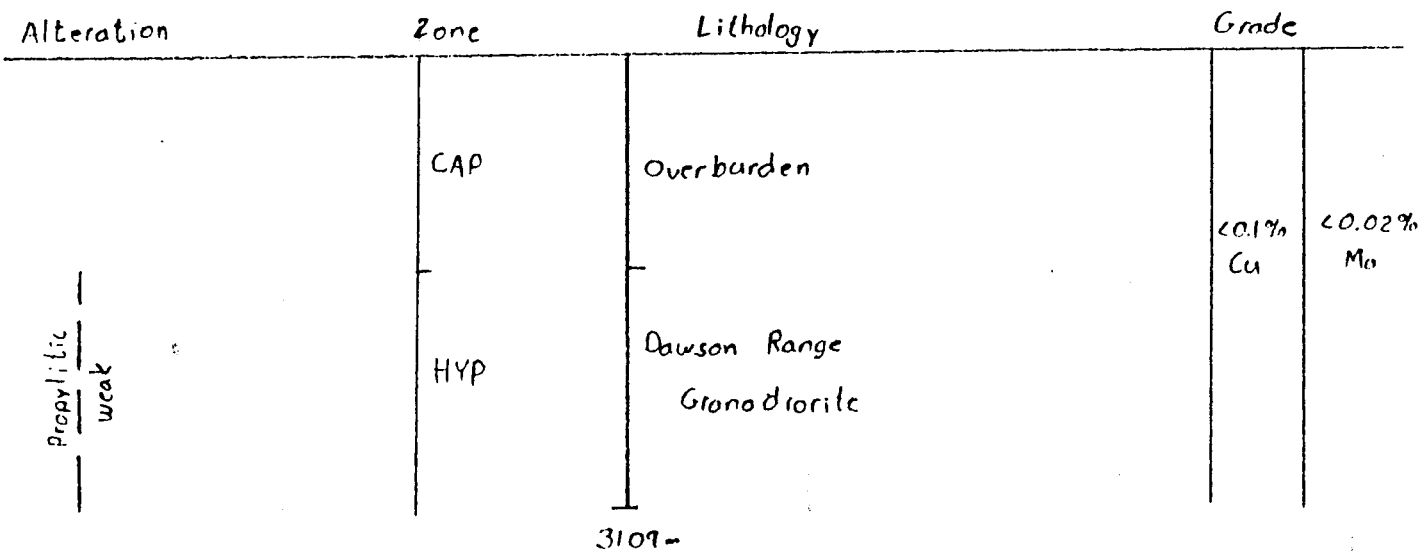
DATE	July 23 1996
RIG #	6

SYNOPTIC DRILL LOG
CASINO PROJECT

Drill Hole	94 - 351	Page	1
Geologist	T.L. Baker	of	1

INTERVAL FROM	INTERVAL TO	SAMPLE NUMBER	STD. OR DUP.	ZONE CODE	ROCK CODE	ALT'N CODE	VISUAL GRADE ESTIMATE Cu %	VISUAL GRADE ESTIMATE MoS2 %	COMMENTS
0	14.05			CAP	OVBR	3			
14.05	17.37	59R070		HYP	WRGD	1	<0.1	<002	
17.37	20.57	71		"	"	"	"	"	
20.57	23.16	72		"	"	"	"	"	
23.16	26.52	73	DUP	"	"	"	"	"	
26.52	28.90	74		"	"	"	"	"	
28.90	31.09	75		"	WRGD	"	"	"	
	EOH								

94-351



0 5 10 20m

Geotech Hole

Cosino Project
94-351
248,500 N
111,500 E
Scale 1:500
July 25, 1994
T.C Becker

COMPUTER GEOLOGY LOG FORM - HEADER PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 351**

SURVEY DATA						
SURVEY	DEPTH	DIP	AZIMUTH	NORTHING	EASTING	ELEVATION
Collar	0.00	-90°				
1						
2						
3						
4						
5						
6						
7						
8						

	DATA ENTRY	DATA CHECKING	INTERVAL
Date			P = Primary
By			S = Secondary

DRILLING DATA			
APPROX. NORTHING	278,500		
APPROX. EASTING	111,500		
APPROX. ELEVATION	750		
DATE DRILLING STARTED	July 16		
DATE DRILLING ENDED	July 19		
TOTAL DEPTH	31.09	CASING	
CASING DEPTH	14.63	IN	(OUT)
DEPTH OF HQ-NQ REDUCTION			
LOGGED BY	T.C. Becker		
2ND LOGGER			

INTENSITY SCALE: T=Trace W=Weak M=Moderate S=Strong

ROCK CODES

LT__6	Latite	QM__3	Quartz Monzonite
LP__6/	Porphyritic Latite	QP__3p	Early Patton Porphyry
M___	Microbreccia	QX__3x	Homolithic Intrusion Breccia
PP__5	Patton Porphyry	WR__2	Dawson Range Batholith
IX__4	Heterolithic Intrusion Breccia	YM__1	Yukon Group Metamorphic

MINERALIZATION

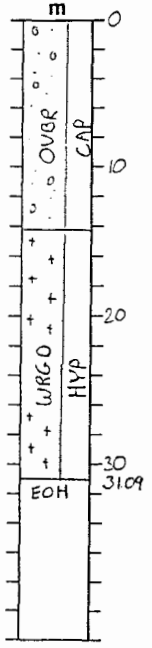
Anh = Anhydrite	Cpy = Chalcopyrite	Mag = Magnetite
Gyp = Gypsum	Cc = Chalcocite	Hem = Hematite
Cb = Carbonate	Cu = Native Copper	PbZn = Lead, Zinc
To = Tourmaline	Cup = Cuprite	Qz = Quartz
Ep = Epidote	Bn = Bornite	Cal = Calcite
Lim = Limonite	Sft = Sulphates	Frac = Fracturing
Py = Pyrite	Mal = Malachite	Slik = Slickensides

Mol = Molybdenite

ALTERATION

7 = Potassic
6 = Ser.-clay-chlor.
5 = Phyllic (Sericite)
4 = Phyllic (K-Spar)
3 = Argillic (Kaolinite)
2 = Argillic (Montm.)
1 = Propylitic

GRAPHIC LOG (m)



P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens.	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	0.00	14.05	CAP	OVBR					o	o	o	o	o	T	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
					OVERBURDEN																																
					0.00 - 8.84 m				Dark grey clay - weak layering, alternating bands of clay/sand mixture - minor rock fragments, < 7mm in size, angular, ~3-5% of unit - trace of granodiorite rock fragments, up to 2cm in size, from 55 to 67m - drillers were able to core some mud but most was obtained from sampling the return						with minor zones of a clay/sand mixture up to 10cm layers of mainly well sorted clays with												well sorted brown sand, quartz, feldspar, mafics, biotite at 9.75m									
					8.84 - 12.80 m				40%						light brown in sand, very minor clay content after																					
									60%						rock fragments, up to 17cm in size, average 5cm in size 80% Yukon Metamorphic Granodiorite, 15% aplite dyke fragments 5% biotite fragments																						
					12.80 - 14.05 m				Well sorted sand, very minor rock fragments						very nice beach sands, very pale brown color up to 1cm in size																					

COMPUTER GEOLOGY LOG FORM - SECONDARY PAGE

PACIFIC SENTINEL GOLD CORP. - CASINO PROJECT

DRILL HOLE NUMBER **94 - 351**

GRAPHIC LOG m

P or S	INTERVAL FROM	INTERVAL TO	ZONE CODE	ROCK CODE	ALTERATION MAJOR Type	ALTERATION MAJOR Intens.	ALTERATION MINOR Type	ALTERATION MINOR Intens	SECONDARY MINERALS (INTENSITY) Anh	Gyp	Cb	To	Ep	Lim	MINERALIZATION (PERCENT) Py	Cpy	Cc	Cu	Cup	Bn	Sft	Mal	Mol	Mag	Hem	(*) PbZn	STRUCTURE - VEINS (INTENSITY) Py	Cpy	Mag	Qz	Anh	Gyp	Cal	Frac	Slik
P	1405	3109	HYP	WRCD	L	W			o	o	W	o	T	T	T	o	o	o	o	o	o	o	o	o	T	o	o	o	o	o	o	o	T	W	o

LITHOLOGY

Typical Dawson Range Granodiorite

MINERALIZATION

- no visible copper or molybdenum mineralization
- trace to very minor disseminated pyrite, trace of hematite near shear zones
- limonite common to 1585 and trace of limonite along fractures to bottom of hole

ALTERATION

- fresh to weak propylitic hematite
- propylitic character zed by trace of epidote, calcite from trace to moderate, trace of chlorite and minor, narrow, discontinuous chlorite veinlets

STRUCTURE

- ranges from weak to moderately blocky
- minor weak shear zones 1405 - 1467 m and occationally down the hole
- mainly weak alignment of mafic minerals

GEOTECHNICAL LOGGING FORM

DATA ENTRY	
DATE:	
BY:	

DATA CHECKING	
DATE:	
BY:	

DDH 94-351 Page 1 of 1

LOGGED BY: T.C Becker

DATE July 22

BOX	FROM	TO	LENGTH	REC	REC%	RQD	BRKG	HARD	WTHR	XJNT	SHAPE	RGH	REMARKS
1	0.61	1.83	1.22	1.22	100	0	1	0	1	na	na	na	OVERBURDEN
1	1.83	2.44	0.61	0.40	66	0	1	0	1	"	"	"	
1	2.44	3.66	1.22	0	0	0	1	0	1	"	"	"	
1-2	3.66	5.18	1.52	0	0	0	1	0	1	"	"	"	
2	5.18	6.71	1.53	0.22	14	0	1	0	1	"	"	"	
2	6.71	7.31	0.60	0.06	10	0	1	0	1	"	"	"	
2	7.31	8.84	1.53	0.87	57	0	1	0	1	"	"	"	
2	8.84	9.75	0.91	0.17	19	0	1	0	1	"	"	"	
2	9.75	11.28	1.53	0.07	5	0	1	0	1	"	"	"	
2	11.28	11.73	0.45	0.21	47	0	1	0	1	"	"	"	
2	11.73	12.34	0.61	0.37	61	0	1	0	1	"	"	"	
2	12.34	12.80	0.46	0.41	89	0	1	0	1	"	"	"	
2	12.80	13.72	0.92	0.40	43	0	1	0	1	"	"	"	
3	13.72	14.63	0.91	0.91	100	0	4	2	3	na	na	na	- Decomposed bedrock at ~13.5m
3	14.63	14.93	0.30	0.30	100	0	7	3	4	5	5	3	Bedrock - moderate to weak biotite
3	14.93	15.85	0.92	0.92	100	0.25	7	3	4	6	3	3	
3	15.85	17.37	1.52	1.52	100	0.97	9	4	5	2	3	3	Trace biotite alteration to chlorite
4	17.37	18.90	1.53	1.53	100	1.30	10	4	5	2	3	3	
4	18.90	20.57	1.67	1.50	90	0.85	9	4	5	7	1	3	
4	20.57	21.18	0.61	0.61	100	0	6	3	4	3	3	3	
4-5	21.18	21.95	0.77	0.71	92	6	6	3	4	3	1	3	
5	21.95	23.16	1.21	1.05	87	0	6	3	4	5	1	3	
5	23.16	23.77	0.61	0.52	85	0	6	3	4	3	1	3	
5	23.77	24.99	1.22	0.69	57	0	6	2	3	7	1	3	
5-6	24.99	26.52	1.53	1.27	83	0	6	2	3	7	1	3	
6	26.52	27.43	0.91	0.80	88	0	5	2	3	12	1	3	
6	27.43	28.80	1.37	1.37	100	0.63	7	3	4	2	3	3	
6	28.80	29.87	1.07	1.00	93	0.54	7	4	4	5	1	3	
6-7	29.87	31.09	1.22	1.22	100	0.45	8	4	4	7	3	3	

APPENDIX II

PLACER LEASE TRENCH LOGS

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-340

SURVEY COORDINATES

NORTHING	53650 m	AZIMUTH	deg.
EASTING	12900 m	INCLINATION	deg.
ELEVATION	970 m	LENGTH	10 m

DIMENSIONS

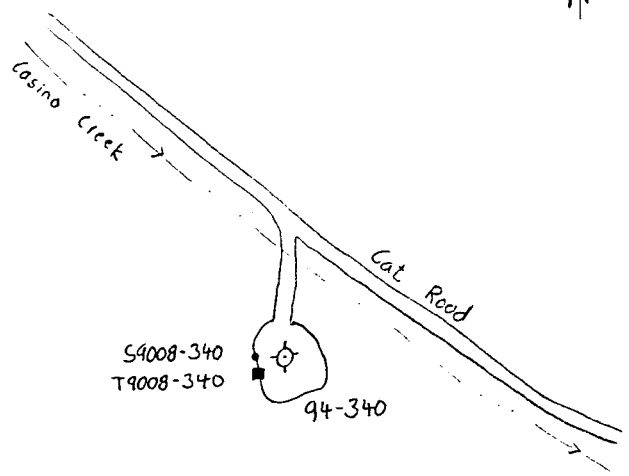
AVERAGE DEPTH 1 m
AVERAGE WIDTH 10 m

Vol. 100 m^3

EXPENDITURES

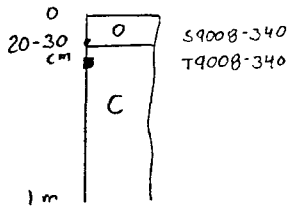
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



- no bedrock exposed
- mainly moist organics with dark brown moist colluvium

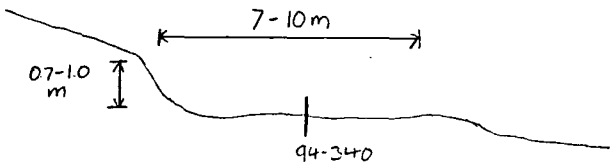
SOIL PROFILE
(SCALE: 1:50)



O - organics, very moist organic layer

C - colluvium, moist, minor ice lenses, gravel and cobble clasts in a sand/clay matrix

Cross Section



SAMPLE NUMBERS:

SOIL	S9008-340
PAN CONCENTRATE	T9008-340
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-342

SURVEY COORDINATES

NORTHING	253,550 m	AZIMUTH	deg.
EASTING	113,100 m	INCLINATION	deg.
ELEVATION	940 m	LENGTH	8 m

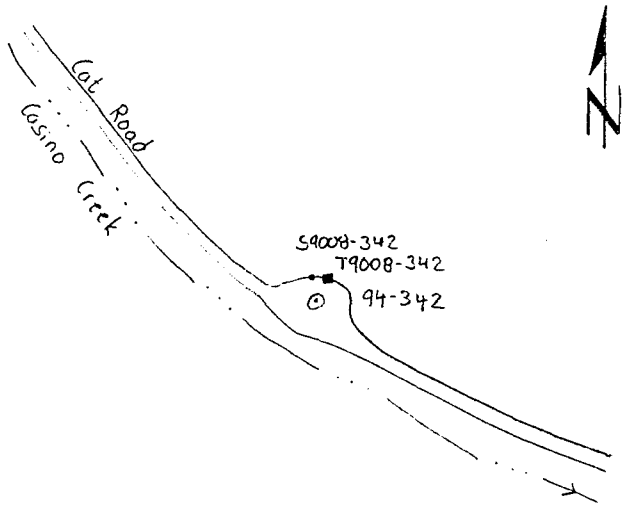
DIMENSIONS

AVERAGE DEPTH 0.5 m
AVERAGE WIDTH 8 m

EXPENDITURES

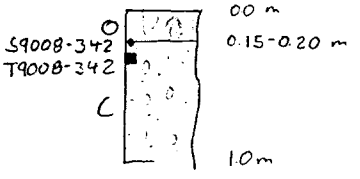
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



- no bedrock exposed
- deepest part of site is 1m into moist sand/clay colluvium with minor rock frogments

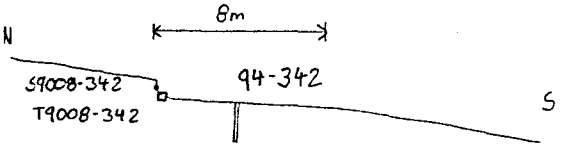
SOIL PROFILE
(SCALE: 1:50)



O - organic layer, 15-20cm of moist black organic muck, with roots etc

C - colluvium layer, sand/clay matrix with cobbles up to 10cm of rock fragments

Typical Cross Section



TCB

SAMPLE NUMBERS:

SOIL	S9008-342
PAN CONCENTRATE	T9008-342
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-343

SURVEY COORDINATES

NORTHING	252,600 m	AZIMUTH	deg.
EASTING	113,550 m	INCLINATION	deg.
ELEVATION	825 m	LENGTH	9 m

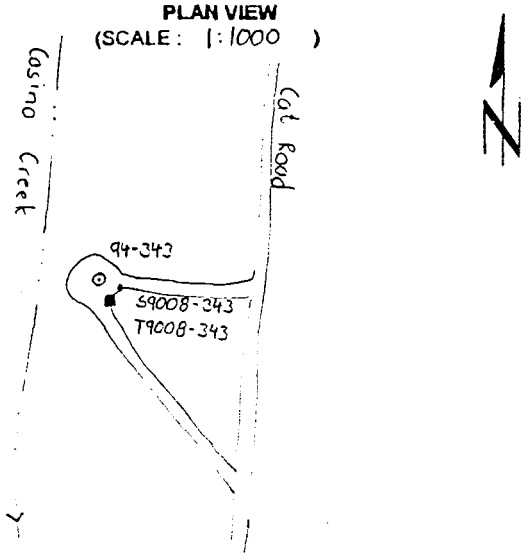
DIMENSIONS

AVERAGE DEPTH 0.7 m
AVERAGE WIDTH 9 m

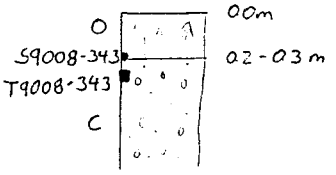
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



SOIL PROFILE
(SCALE: 1:50)

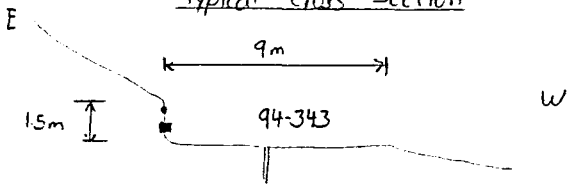


O - organic layer, 0.2-0.3m of moist, partially frozen black muck with organics, sand/clay and trace rock fragments

C - colluvium layer, sand/clay matrix with minor rock fragments

- no bedrock exposed
- deepest part of site is 1.5m into very moist partially frozen colluviam

Typical Cross Section



TCB

SAMPLE NUMBERS:

SOIL	S9008-343
PAN CONCENTRATE	T9008-343
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-344

SURVEY COORDINATES

NORTHING	252,375 m	AZIMUTH	deg.
EASTING	113,550 m	INCLINATION	deg.
ELEVATION	850 m	LENGTH	6 m

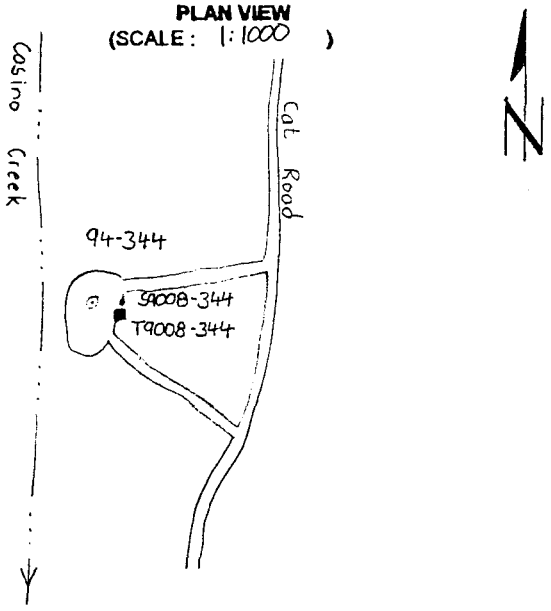
DIMENSIONS

AVERAGE DEPTH 0.7 m
AVERAGE WIDTH 9 m

EXPENDITURES

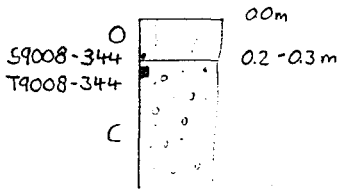
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



- no bedrock exposed
- deepest part of trench is 1.5m into moist partially frozen colluvium

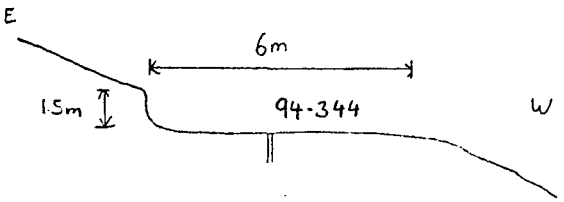
SOIL PROFILE
(SCALE: 1:50)



O - organic layer, 0.2-0.3m of moist, organic rich black muck, with sand/clay and minor rock fragments

C - colluvium layer, partially frozen, mainly sand/clay with rock fragments up to 10cm in size

Typical Cross Section



TCB

SAMPLE NUMBERS:

SOIL	S9008-344
PAN CONCENTRATE	T9008-344
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-345

SURVEY COORDINATES

NORTHING	250,300 m	AZIMUTH	deg.
EASTING	112,800 m	INCLINATION	deg.
ELEVATION	752 m	LENGTH	9 m

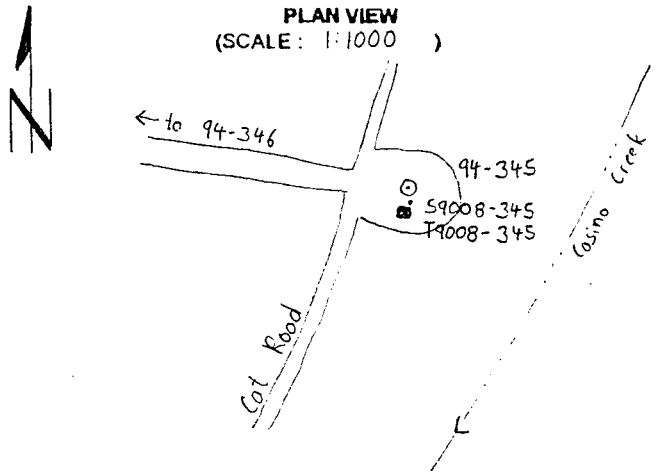
DIMENSIONS

AVERAGE DEPTH 0.2 m
AVERAGE WIDTH 10 m

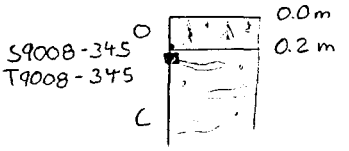
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



SOIL PROFILE
(SCALE: 1:50)

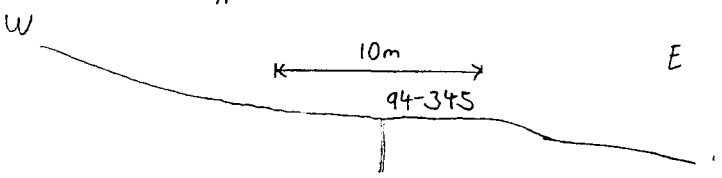


O - organic layer, 0.2m of moist, black muck with organics and sand/clay

C - colluvium, mainly light brown/grey clays with interbedded sand layers

- no bedrock exposed
- deepest part of trench is 0.3m
- trench just into colluvium, soft, unfrozen easily dug with shovel

Typical Cross Section



TD

SAMPLE NUMBERS:

SOIL	S9008-345
PAN CONCENTRATE	T9008-345
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-346

SURVEY COORDINATES

NORTHING	250,350 m	AZIMUTH	deg.
EASTING	112,650 m	INCLINATION	deg.
ELEVATION	752 m	LENGTH	9 m

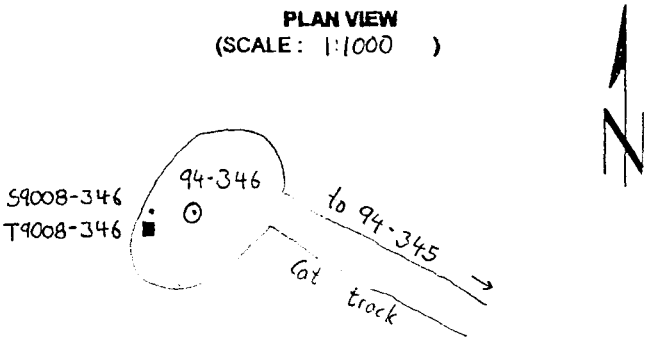
DIMENSIONS

AVERAGE DEPTH 0.4 m
AVERAGE WIDTH 9 m

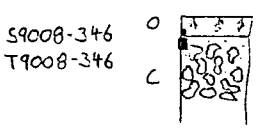
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



SOIL PROFILE
(SCALE: 1:50)

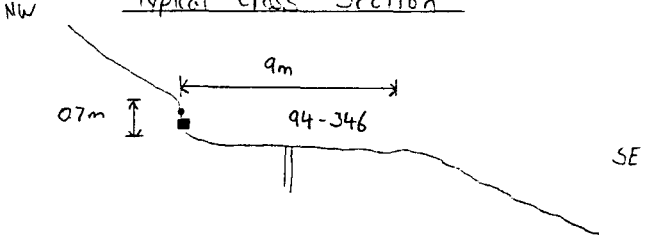


O - organic layer, 0.15-0.2 m thick, brown clays with black muck

C - colluvium layer, mainly rock fragments with light brown clay, no permafrost or ice present

- northwest side of trench exposes rocky colluvium, close to bedrock
- no fluvial influence in colluvium, mainly down hole transportation of rock.
- rock fragments are all Yukon Metamorphic Rocks

Typical Cross Section



TCD

SAMPLE NUMBERS:

SOIL	S9008-346
PAN CONCENTRATE	T9008-346
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-347

SURVEY COORDINATES

NORTHING	250,100 m	AZIMUTH	deg.
EASTING	112,650 m	INCLINATION	deg.
ELEVATION	746 m	LENGTH	7 m

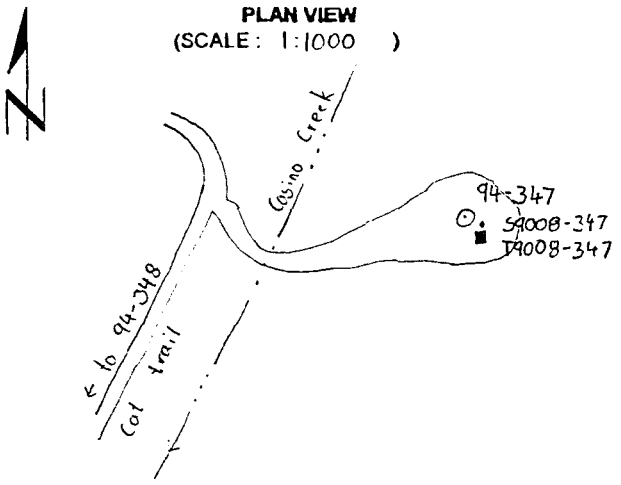
DIMENSIONS

AVERAGE DEPTH 0.4 m
AVERAGE WIDTH 7 m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



- no bedrock exposed
- thick organic layer with partially frozen colluvium underneath
- colluvium easily dug with a shovel

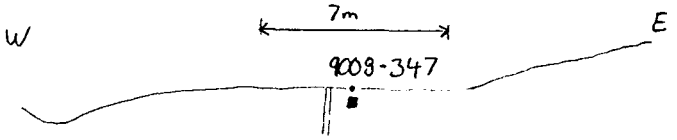
SOIL PROFILE
(SCALE: 1:50)



O - organic layer, 0.2-0.3m thick layer of black organics with minor bands of silt and clay

C - colluvium layer, bands of grey and brown clay/sand

Typical Cross Section



TCD

SAMPLE NUMBERS:

SOIL	S9008-347
PAN CONCENTRATE	T9008-347
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9008-348

SURVEY COORDINATES

NORTHING	249,300 m	AZIMUTH	deg.
EASTING	112,450 m	INCLINATION	deg.
ELEVATION	720 m	LENGTH	10 m

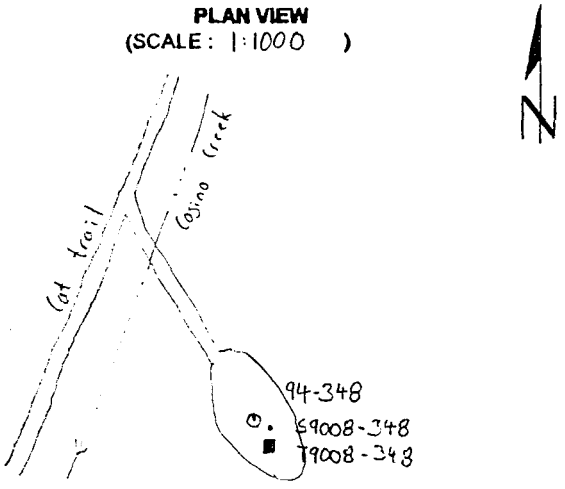
DIMENSIONS

AVERAGE DEPTH 0.3 m
AVERAGE WIDTH 8 m

EXPENDITURES

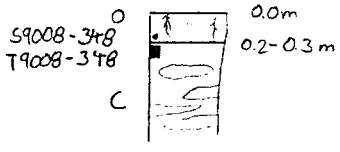
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



- no bedrock exposed
- thick organic layer with partially frozen colluvium underneath
-

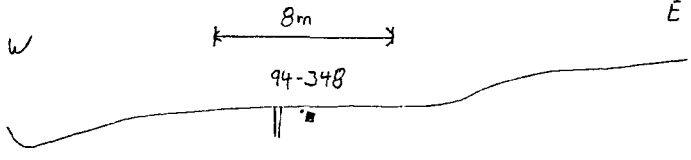
SOIL PROFILE
(SCALE: 1:50)



O - organic layer, 0.2-0.3m thick, mainly black organics with minor bands of silt and clay

C - colluvium layer, alternating layers of grey clay and brown sand with very minor rock fragments up to 10cm in size

Typical Cross Section



TCB

SAMPLE NUMBERS:

SOIL	S9008-348
PAN CONCENTRATE	T9008-348
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9036
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9036-349

SURVEY COORDINATES

NORTHING	248,400 m	AZIMUTH	deg.
EASTING	111,660 m	INCLINATION	deg.
ELEVATION	700 m	LENGTH	10 m

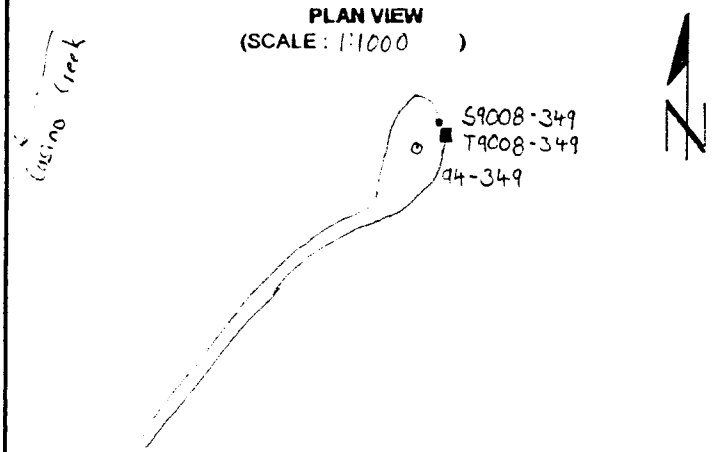
DIMENSIONS

AVERAGE DEPTH 0.6 m
AVERAGE WIDTH 7 m

EXPENDITURES

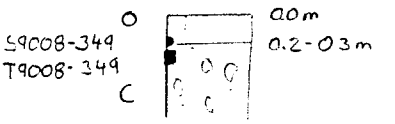
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



- no bedrock exposed
- trench at base of moderately steep north facing slope
- partially frozen colluvium, very moist
- minor fluvial influence mainly slumps from slope above.

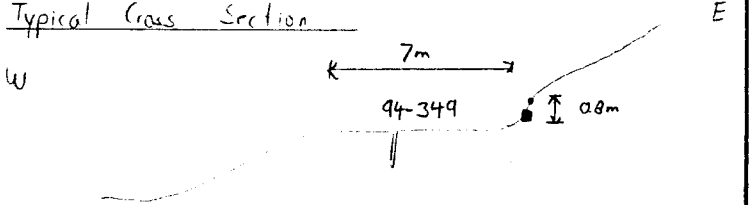
SOIL PROFILE
(SCALE: 1:50)



O - organic layer, 0.2-0.3 m thick, mainly black organics with <2cm rock chips and minor sand

C - colluvium layer, equal mixture of sand/clay and rock fragments, <5cm in size, more fluvial influence to the

Typical Cross Section



TCB

SAMPLE NUMBERS:

SOIL	S9036-349
PAN CONCENTRATE	T9036-349
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9036
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9036-350

SURVEY COORDINATES

NORTHING	248,200 m	AZIMUTH	deg.
EASTING	111,450 m	INCLINATION	deg.
ELEVATION	700 m	LENGTH	8 m

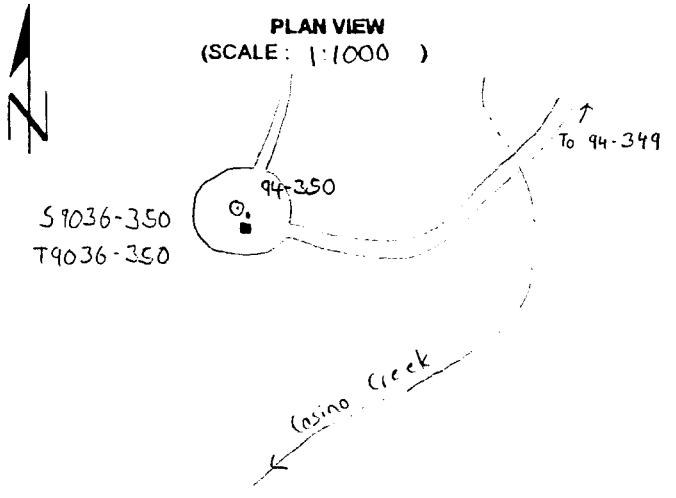
DIMENSIONS

AVERAGE DEPTH 0.3 m
AVERAGE WIDTH 8 m

EXPENDITURES

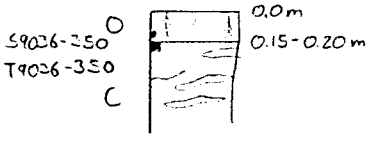
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE : 1:1000)



- no bedrock exposed
- poor exposure of colluvium, not frozen but fairly moist
- soil was more of a silt sample

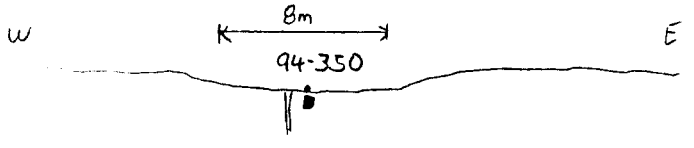
SOIL PROFILE
(SCALE : 1:50)



O - organic layer, fairly thin layer of black muck and organics with clay/sand

C - colluvium layer, layers of grey clay ... layers up to 12cm of light brown sand/clay

Typical Cross Section



TCD

SAMPLE NUMBERS:

SOIL S9036-350
PAN CONCENTRATE T9036-356
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9036
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: 9036-351

SURVEY COORDINATES

NORTHING	248,500 m	AZIMUTH	____ deg.
EASTING	111,500 m	INCLINATION	____ deg.
ELEVATION	690 m	LENGTH	8 m

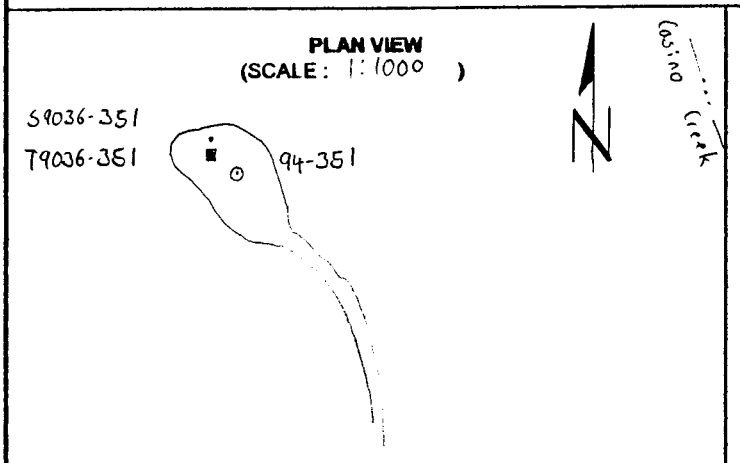
DIMENSIONS

AVERAGE DEPTH 0.3 m
AVERAGE WIDTH 7 m

EXPENDITURES

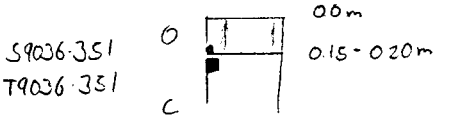
TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



- no bedrock exposed
- poor exposure of colluvium, not frozen and fairly moist rock
- soil sample was more of a silt sample

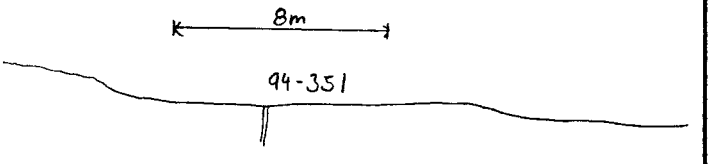
SOIL PROFILE
(SCALE: 1:50)



O- organic layer, fairly thin layer of muck with with sand/clay layers.

C- colluvium layer, layers of grey clay with some light brown sand/clay layers

Typical Cross Section



TCB.

SAMPLE NUMBERS:

SOIL	S9036-351
PAN CONCENTRATE	T9036-351
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9053
CREEK NAME: CANADIAN
TYPE: BENCH

PIT IDENTIFICATION NUMBER: 9053 F

SURVEY COORDINATES

NORTHING	54506.67 m	AZIMUTH	114° deg.
EASTING	10293.55 m	INCLINATION	2° deg.
ELEVATION	1313.17 m	LENGTH	30.0 m

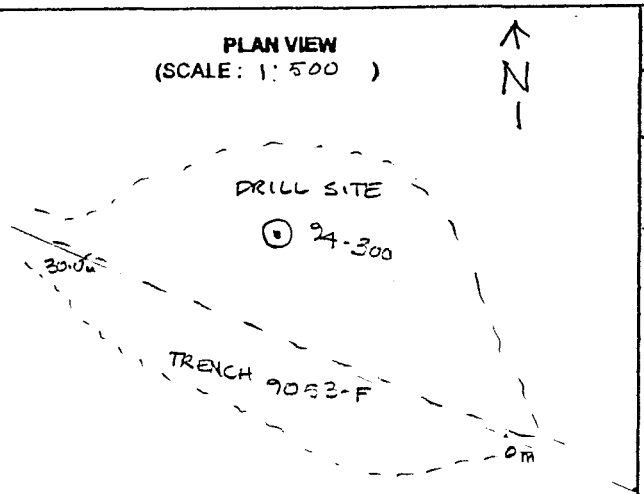
DIMENSIONS

AVERAGE DEPTH	3.0 m
AVERAGE WIDTH	3.0 m

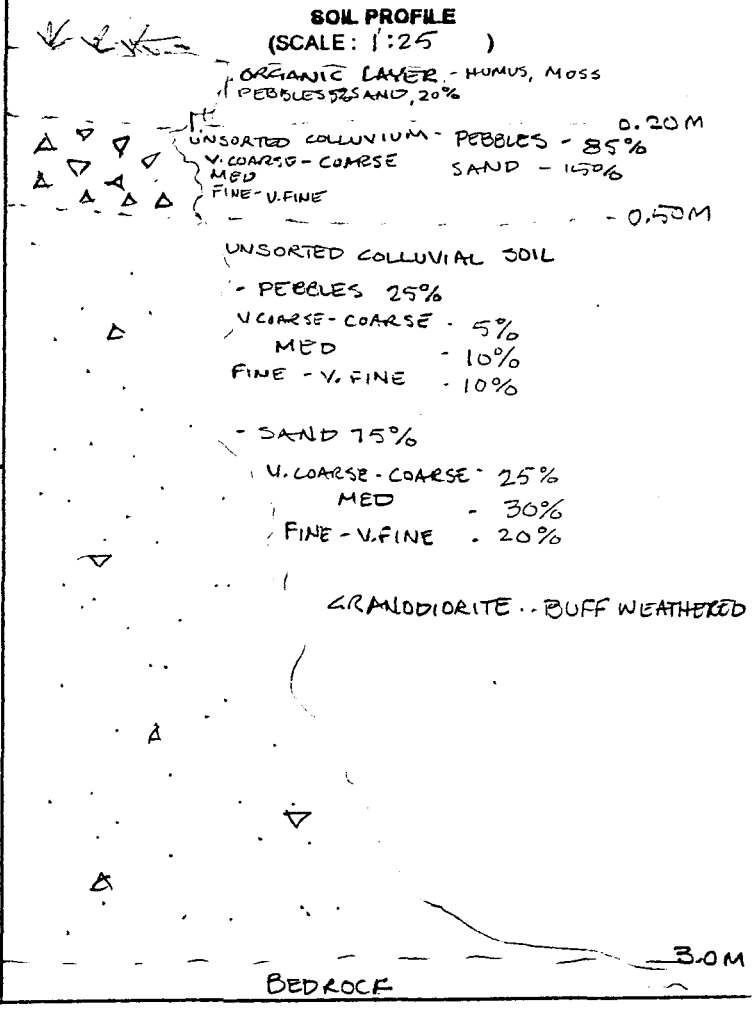
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:500)



SOIL PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL	
PAN CONCENTRATE	
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 2053
CREEK NAME: CANADIAN
TYPE: BENCH

PIT IDENTIFICATION NUMBER: 9053-G

SURVEY COORDINATES

NORTHING	54406.36 m	AZIMUTH	030° deg.
EASTING	10193.99 m	INCLINATION	1° deg.
ELEVATION	1324.81 m	LENGTH	28.0 m

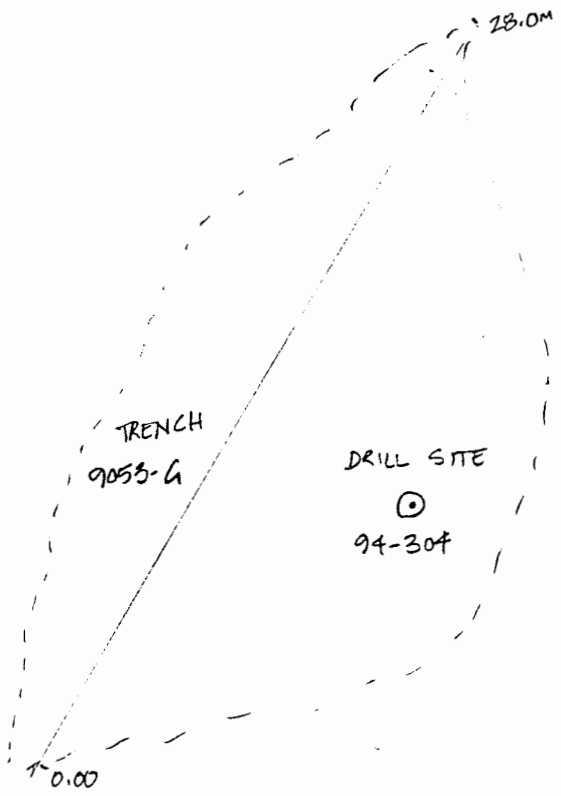
DIMENSIONS

AVERAGE DEPTH 2.0 m
AVERAGE WIDTH 3.0 m

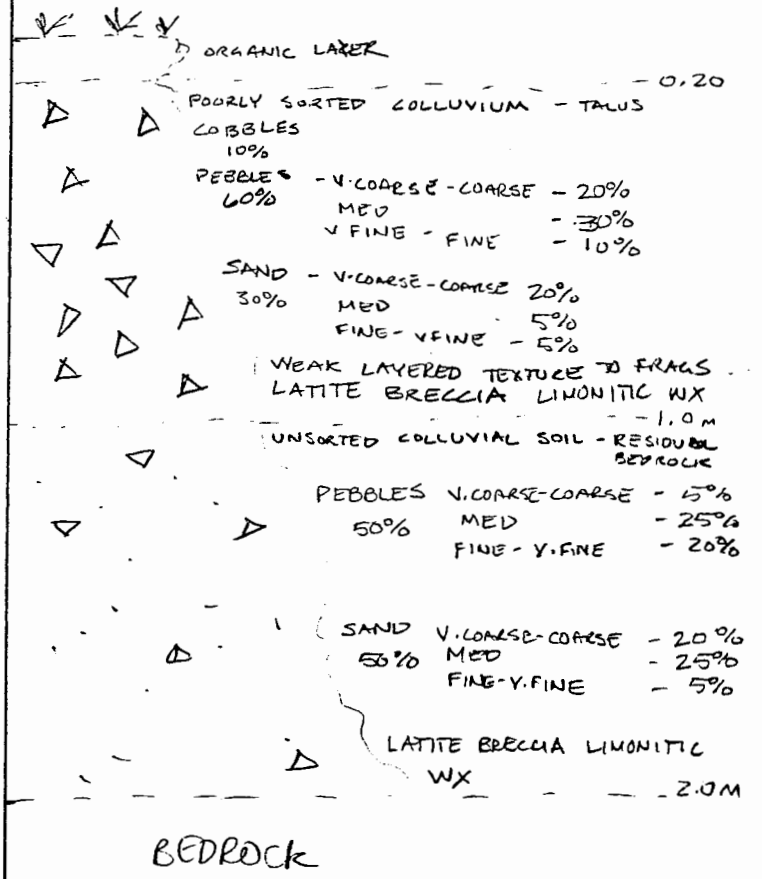
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:250)



SOIL PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9053
CREEK NAME: CANADIAN
TYPE: BENCH

PIT IDENTIFICATION NUMBER: 9053-H

SURVEY COORDINATES

NORTHING	5075 m	AZIMUTH	060° deg.
EASTING	10600 m	INCLINATION	5° deg.
ELEVATION	1253 m	LENGTH	20.0. m

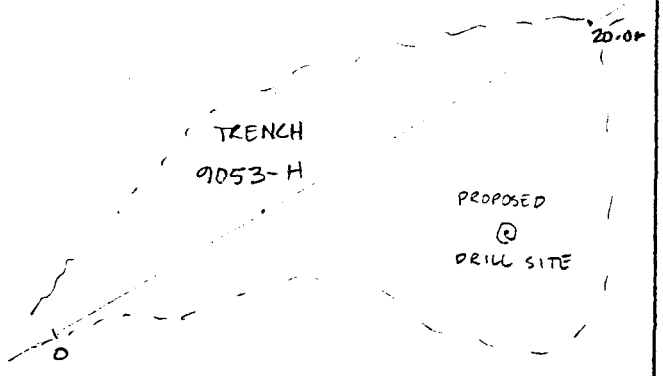
DIMENSIONS

AVERAGE DEPTH 1.5 m
AVERAGE WIDTH 3 m

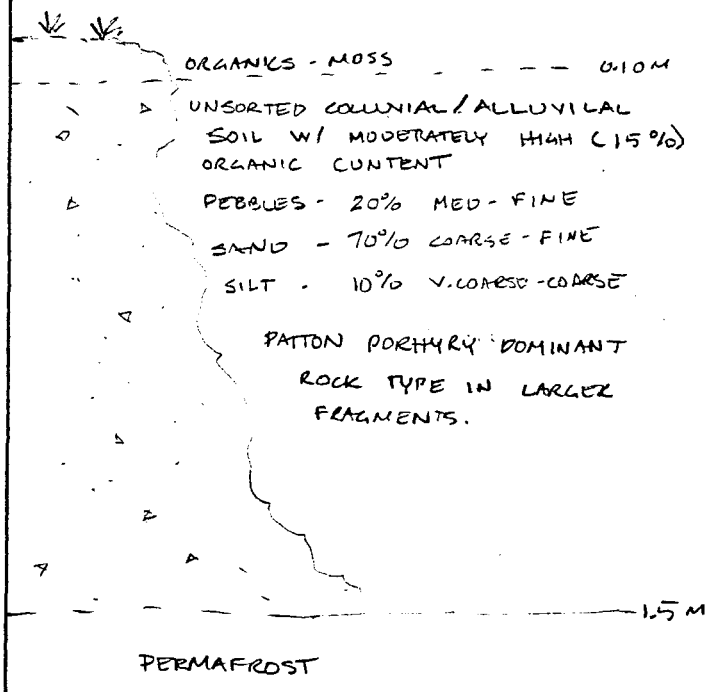
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:250)



SOIL PROFILE
(SCALE: 1:20)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9053
CREEK NAME: CASINO CREEK
TYPE: CREEK

PIT IDENTIFICATION NUMBER: T304

SURVEY COORDINATES

NORTHING	254400 m	AZIMUTH	045° deg.
EASTING	110200 m	INCLINATION	deg.
ELEVATION	1325 m	LENGTH	22 m

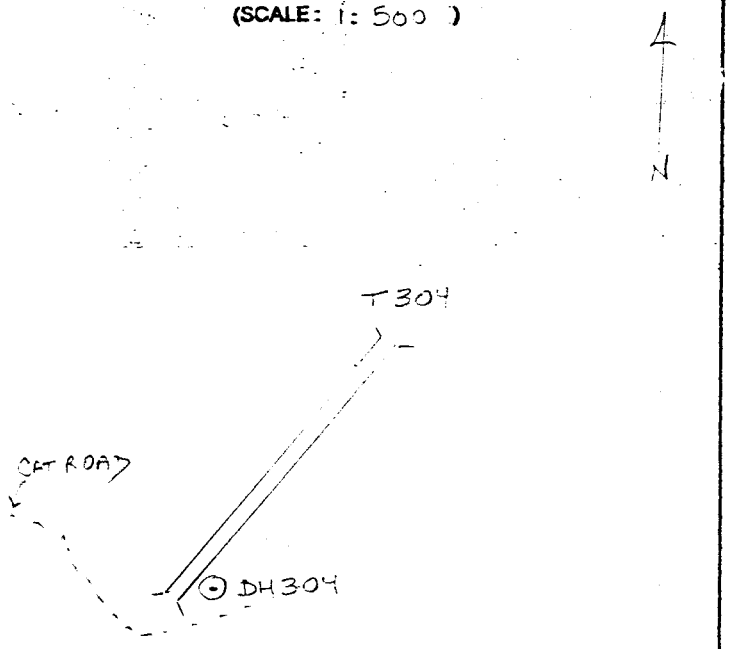
DIMENSIONS

AVERAGE DEPTH 1.0 m
AVERAGE WIDTH 1 m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1: 500)



- no bedrock exposed
- center of trench to depth of 1.5m

SOIL PROFILE
(SCALE: 1:50)



Colluvium : very fine to coarse [illegible] of rubble [illegible]

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: Bedrock not reached in this trench - drill to determine thickness of overburden / residual bedrock.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9056
CREEK NAME: CASINO
TYPE: BENCH

PIT IDENTIFICATION NUMBER: 9056-D

SURVEY COORDINATES

NORTHING	255550 m	AZIMUTH	004° deg.
EASTING	111500 m	INCLINATION	5° deg.
ELEVATION	1225 m	LENGTH	25.0 m

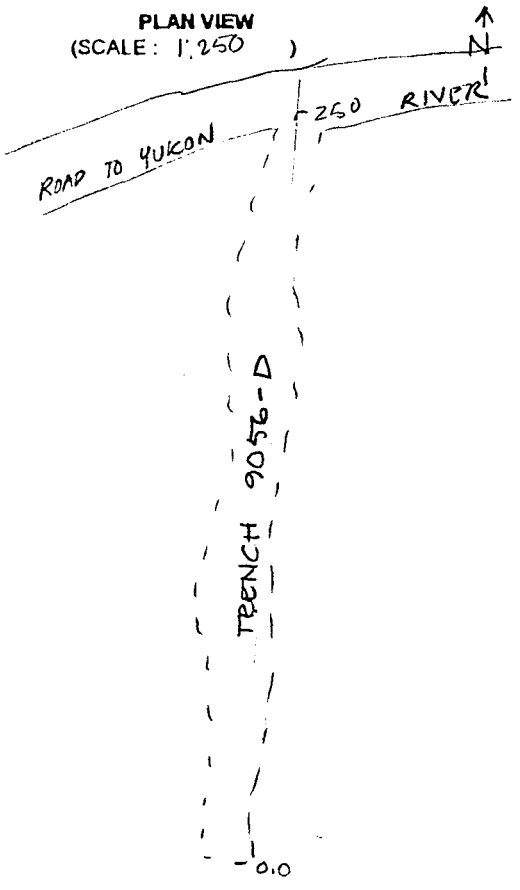
DIMENSIONS

AVERAGE DEPTH	1.0 m
AVERAGE WIDTH	2.0 m

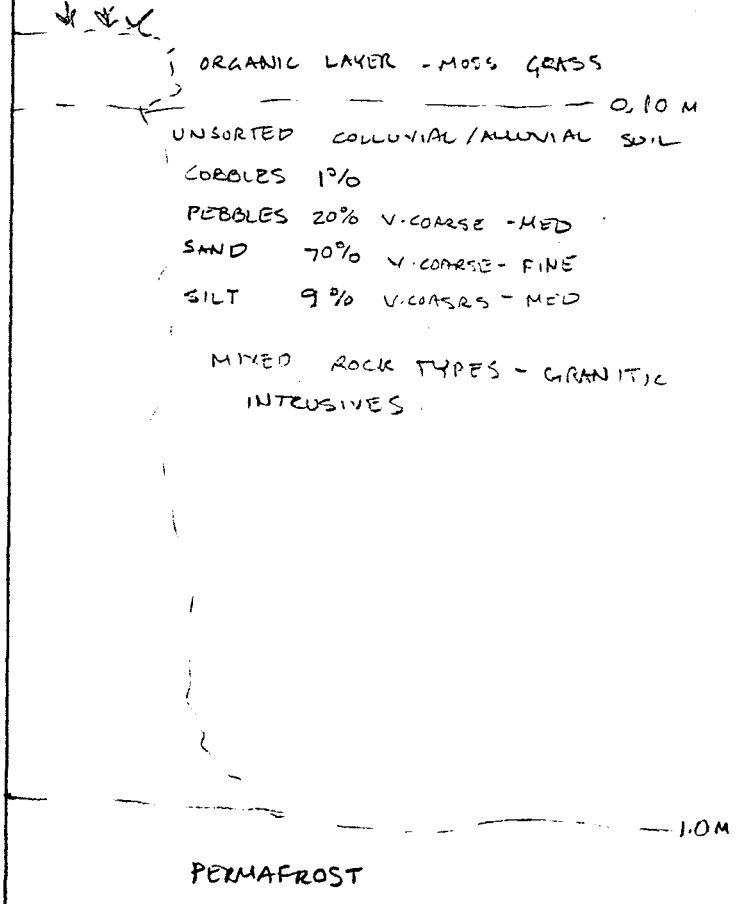
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:250)



SOIL PROFILE
(SCALE: 1:10)



SAMPLE NUMBERS:

SOIL	
PAN CONCENTRATE	
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 7056
CREEK NAME: CASINO
TYPE: BENCH

PIT IDENTIFICATION NUMBER: 9056 - E

SURVEY COORDINATES

NORTHING	255 250 m	AZIMUTH	40°	deg.
EASTING	112 200 m	INCLINATION	0°	deg.
ELEVATION	1200 m m	LENGTH	9	m

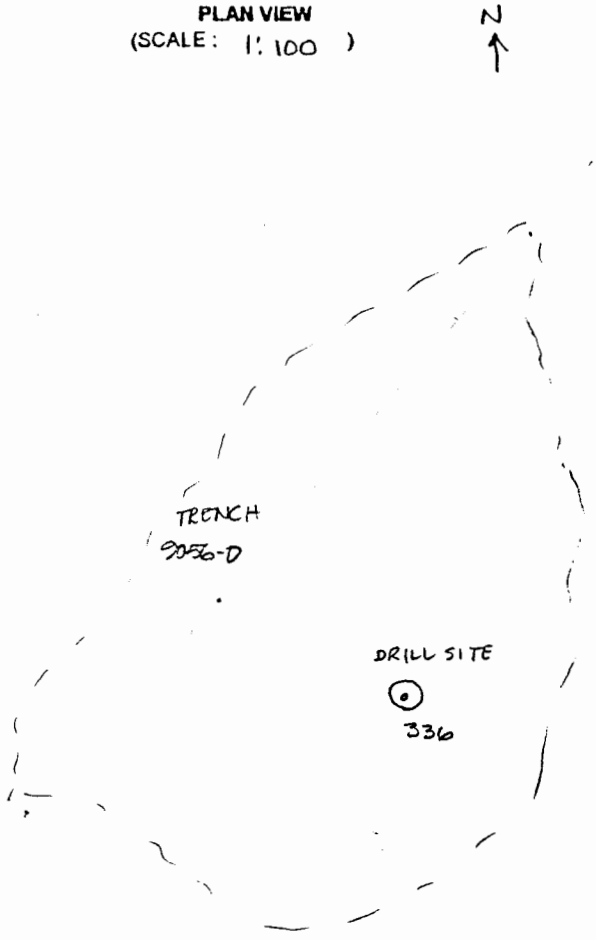
DIMENSIONS

AVERAGE DEPTH 0.75 m
AVERAGE WIDTH 5 m

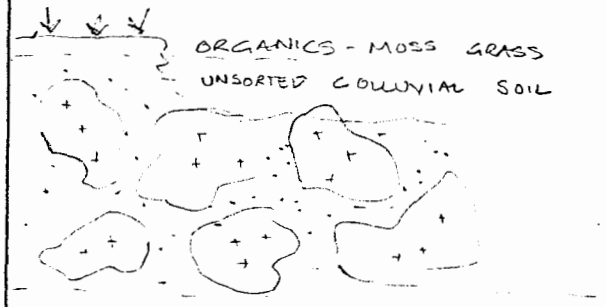
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1: 100)



SOIL PROFILE
(SCALE: 1:25)



PERMAFROST?

- 40% BOULDERS - SMALL - MEDIUM
- 20% PEBBLES - V. COARSE - MED
- 40% SAND - V. COARSE - FINE.
- ORGANICS ~ 15%

GRANITIC BOULDERS: GRANODIORITE/DIORITE

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9059
CREEK NAME: CASINO CREEK
TYPE: BENCH

PIT IDENTIFICATION NUMBER: 9058 - C

SURVEY COORDINATES

NORTHING	253 100 N m	AZIMUTH	120 deg.
EASTING	112 050 m	INCLINATION	0 deg.
ELEVATION	1185 m	LENGTH	10 m

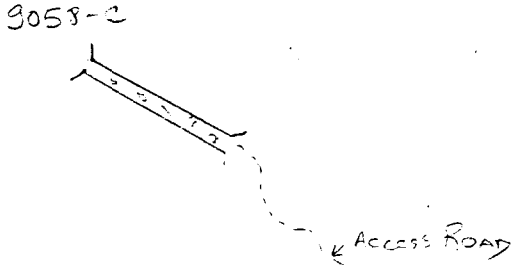
DIMENSIONS

AVERAGE DEPTH 4 m
AVERAGE WIDTH 5 m

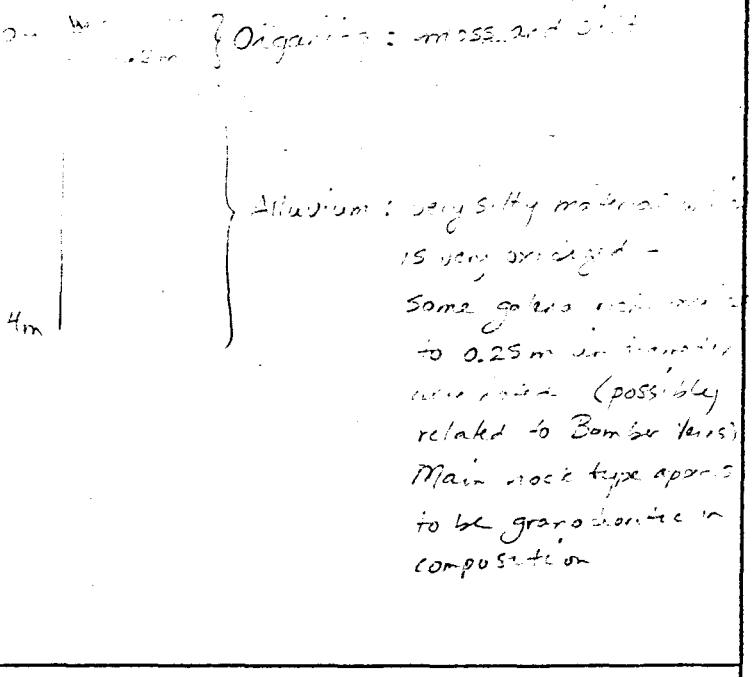
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 500)



SOIL PROFILE
(SCALE: 1:100)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: This test pit was dug near outhouses at the Airstrip

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9060
CREEK NAME: CASINO CRK
TYPE: BENCH

PIT IDENTIFICATION NUMBER: T297

SURVEY COORDINATES

NORTHING	254600 m	AZIMUTH	300° deg.
EASTING	111050 m	INCLINATION	N/A deg.
ELEVATION	1365 m	LENGTH	5 m

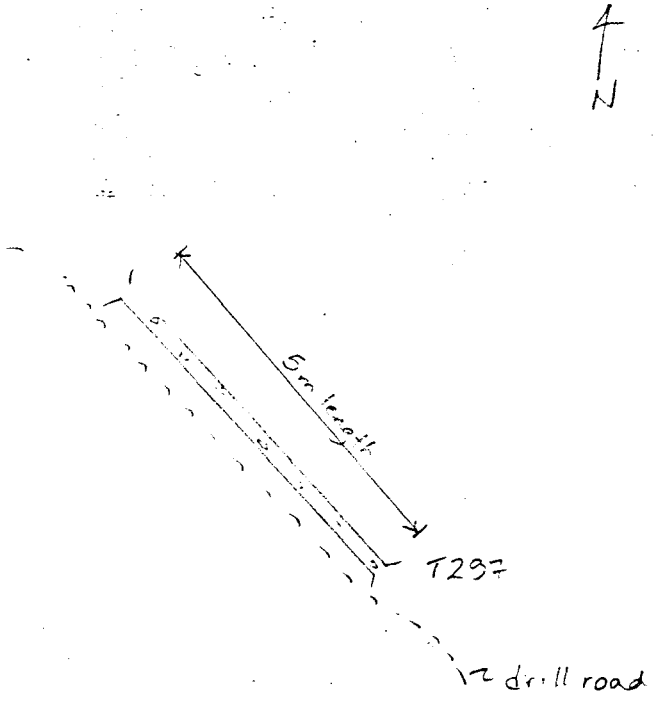
DIMENSIONS

AVERAGE DEPTH 2 m
AVERAGE WIDTH 1.5 m

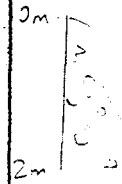
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:100)



Colluvium: 75% Dawson Range granodiorite pebbles
25% sand
- moderately oxidized
- no pyrite or arsenopyrite noted
- bedrock not intersected

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9060
CREEK NAME: Casino Creek
TYPE: Bed

PIT IDENTIFICATION NUMBER: T303

SURVEY COORDINATES

NORTHING	254600 m	AZIMUTH	280° deg.
EASTING	111 200 m	INCLINATION	— deg.
ELEVATION	1300 m	LENGTH	10 m

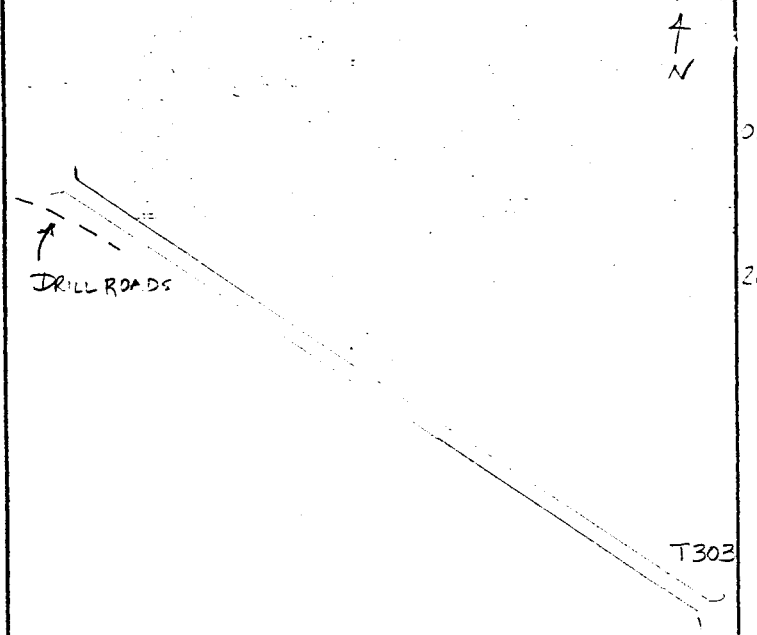
DIMENSIONS

AVERAGE DEPTH 2.0 m
AVERAGE WIDTH 2.0 m

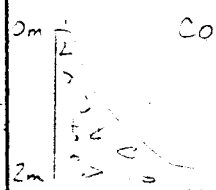
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:100)



Colluvium: pebbles and cobbles of Dawson range [illegible] in a coarse sand matrix
Matrix 10%
Clasts 90%

- extremely angular
- 50% bedrock not interbedded
- no visible structure observed

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9060
CREEK NAME: CASINO
TYPE: BENCH.

PIT IDENTIFICATION NUMBER: T308

SURVEY COORDINATES

NORTHING	254 500 m	AZIMUTH	305° deg.
EASTING	111 200 m	INCLINATION	+5° deg.
ELEVATION	1380 m	LENGTH	8 m

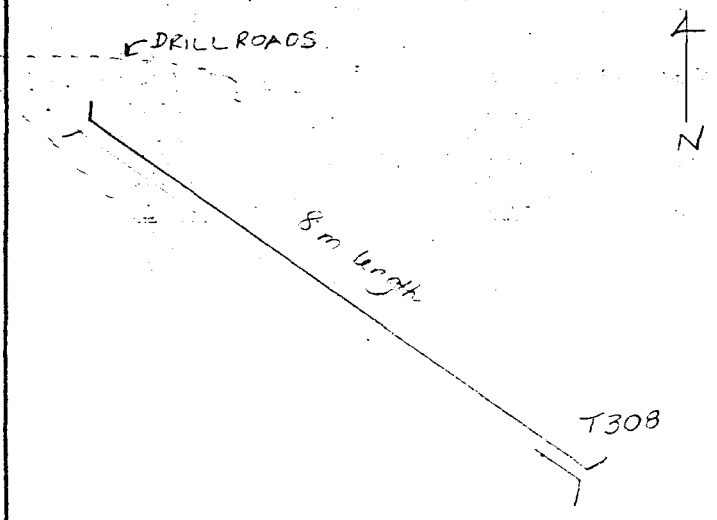
DIMENSIONS

AVERAGE DEPTH 2.0m m
AVERAGE WIDTH 1.5m m

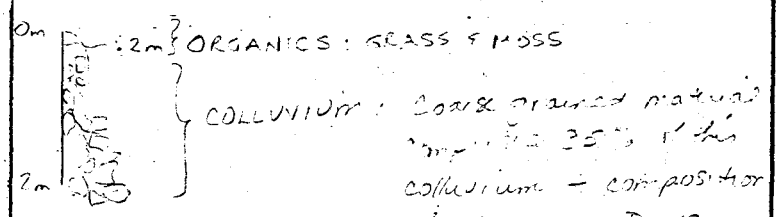
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:100)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: Bedrock was not intersected

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 3060
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: T315

SURVEY COORDINATES

NORTHING	254 600 m	AZIMUTH	310° deg.
EASTING	171 100 m	INCLINATION	N/A deg.
ELEVATION	1345 m	LENGTH	6 m

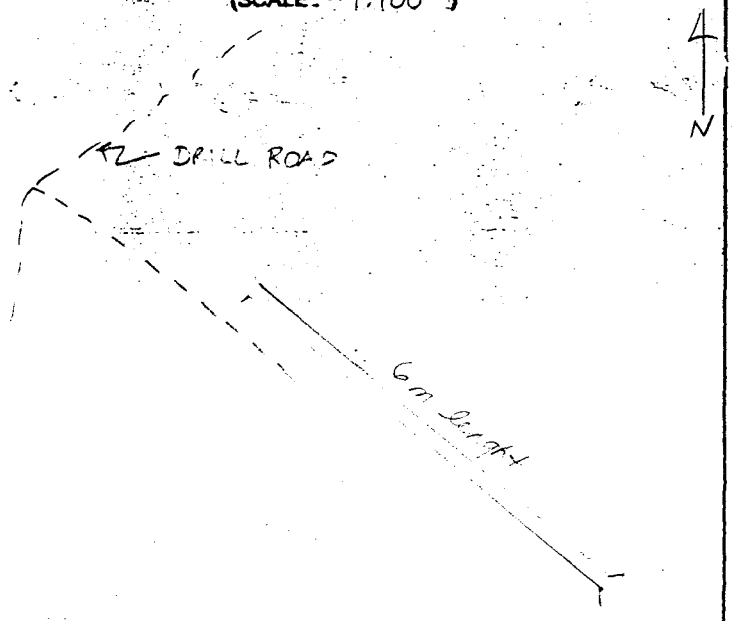
DIMENSIONS

AVERAGE DEPTH 1.5m m
AVERAGE WIDTH 1.5m m

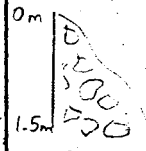
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:100)



Colluvium: Mixed clasts of Milled Microbreccia and granodiorite - difficult to estimate percentage due to the weathered nature of the rock.
Matrix composed approx. 5% of unit - sandy and extremely oxidized
- No visible sulphides
- Minor Tourmaline noted

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9080
CREEK NAME: CASINO
TYPE: BENCH

IDENTIFICATION NUMBER: T339

SURVEY COORDINATES

NORTHING	54 400 m	AZIMUTH	305 deg.
EASTING	11 200 m	INCLINATION	2° deg.
ELEVATION	1340 m	LENGTH	5m m

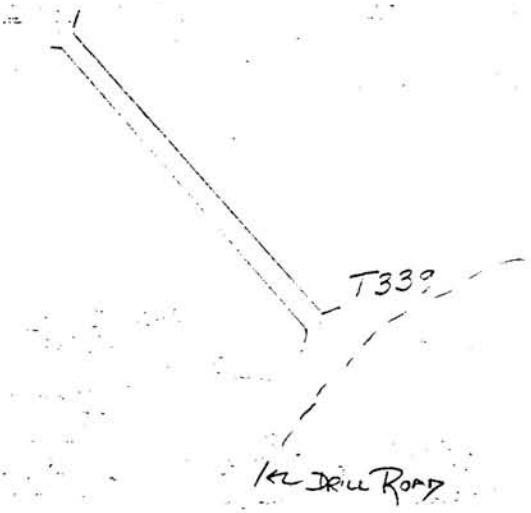
DIMENSIONS

AVERAGE DEPTH 2.5 m
AVERAGE WIDTH 2 m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:100)



COLLUVIUM: GRANODIORITE CLASTS IN A MATRIX THAT MAKES UP < 10% OF ROCK - ANG CLAST SIZE 5cm, MATRIX IS A MIX OF SAND & CLAY

2.44 - BEDROCK(?)

- no visible ice present
- extremely wet

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: Possible bedrock encountered -

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9080
CREEK NAME: CASINO
TYPE: BENCH

IDENTIFICATION NUMBER: T339

SURVEY COORDINATES

NORTHING	54 400 m	AZIMUTH	305 deg.
EASTING	11 200 m	INCLINATION	2° deg.
ELEVATION	1340 m	LENGTH	5m m

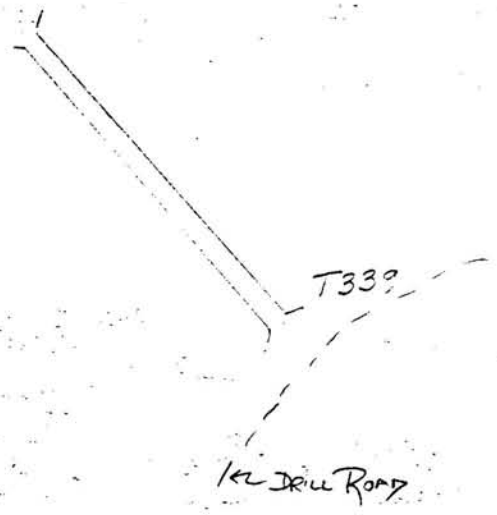
DIMENSIONS

AVERAGE DEPTH 2.5 m
AVERAGE WIDTH 2 m

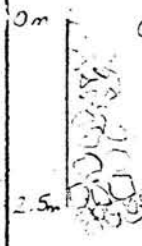
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:100)



COLLUVIUM: GRANODIORITE CLASTS IN A MATRIX THAT MAKES UP < 10% OF ROCK - AVG CLAST SIZE 5cm, MATRIX IS A MIX OF SAND & CLAY

2.44 - BEDROCK(?)

- no visible structure
- extremely weathered

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: Possible bedrock encountered -

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9062
CREEK NAME: CASINO
TYPE: BENCH

IDENTIFICATION NUMBER: T320

SURVEY COORDINATES

NORTHING	254 300N m	AZIMUTH	290° deg.
EASTING	110 900 m	INCLINATION	– deg.
ELEVATION	1350 m	LENGTH	12 m m

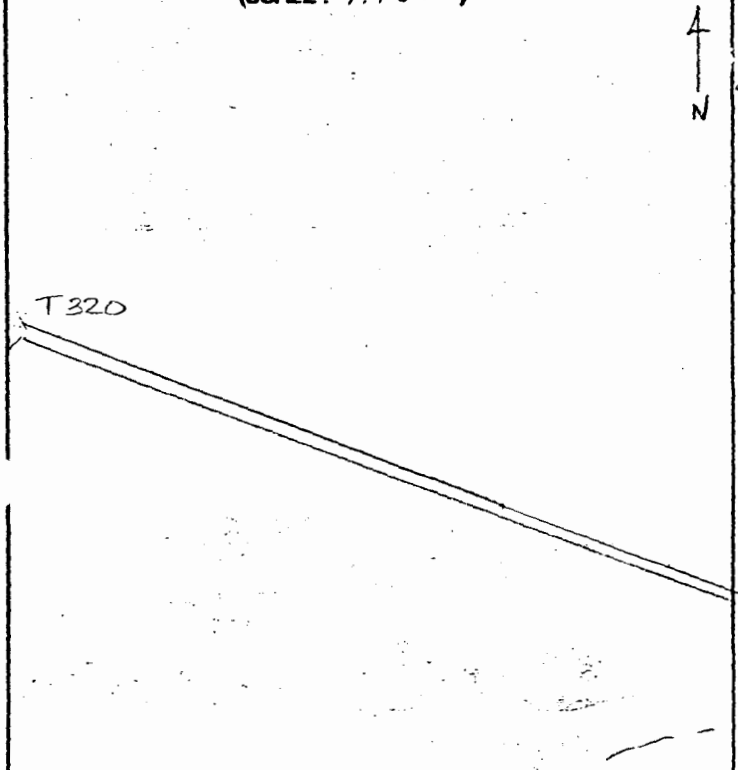
DIMENSIONS

AVERAGE DEPTH 2.5 m
AVERAGE WIDTH 2.0 m

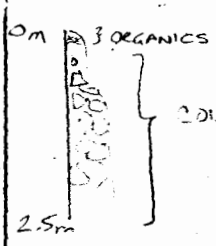
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:100)



- NO VISIBLE SULPHIDES WERE NOTED

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9062
CREEK NAME: CASINO
TYPE: BENCH

IDENTIFICATION NUMBER: T333

SURVEY COORDINATES

NORTHING	254 350 m	AZIMUTH	040 deg.
EASTING	111 020 m	INCLINATION	2° deg.
ELEVATION	1380 m	LENGTH	10m m

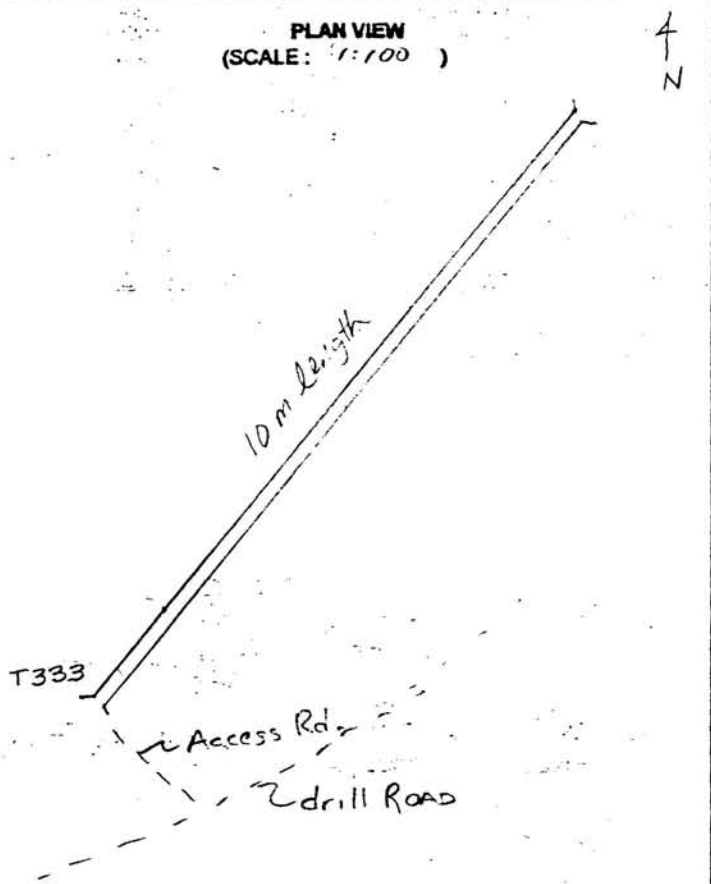
DIMENSIONS

AVERAGE DEPTH 1.5 m
AVERAGE WIDTH 2.0 m

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:00)



Colluvium: fine to coarse grained decomposed granodiorite and microbreccia in an oxidized sandy matrix.
Post oxidation is present along fracture surfaces.

- No visible sulphides
- Weak tourmaline clusters on some fracture surfaces.

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE ✓
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9062
CREEK NAME: CASINO
TYPE: BENCH

PIT IDENTIFICATION NUMBER: 9062-C

SURVEY COORDINATES

NORTHING	54300.17 m	AZIMUTH	278° deg.
EASTING	10900.59 m	INCLINATION	2° deg.
ELEVATION	1374.74 m	LENGTH	52.0 m

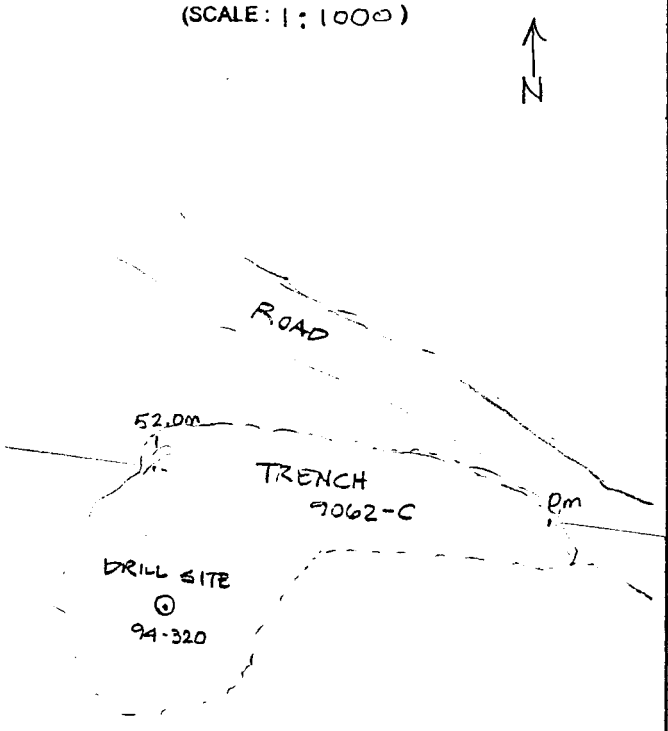
DIMENSIONS

AVERAGE DEPTH 3.0 m
AVERAGE WIDTH 4.0 m

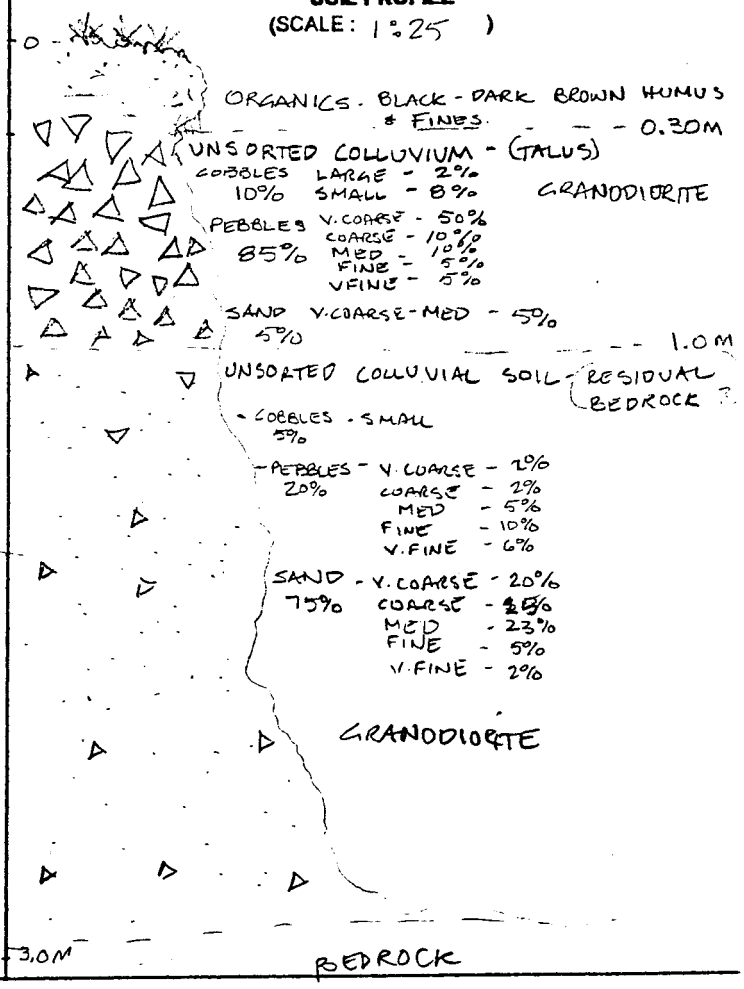
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:1000)



SOIL PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: Lease 9063
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: 9063-C

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.0	m
EASTING		m	AVERAGE WIDTH	1.2	m
ELEVATION		m	LENGTH	45	m
AZIMUTH	188	deg.	VOLUME	≈54	Cu.m
INCLINATION	4	deg.		70.63	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:500)



TRENCH PROFILE
(SCALE: 1:10)



VEGETATION: Thin moss, grasses, willows, stunted black spruce

ORGANICS: Decayed vegetation ... to silt

COLLUVIUM:
Orange brown to medium brown. 40% ugly fine to fine sands; 20% silt +/- clay; 10% pebble to cobbles; 30% boulders. (step graded)
Boulder lithology = granodiorite, fairly fresh.
No ice noted in N end of trench but colluvium is near saturation in zones.
In south end of trench ice occurs as lenses in the colluvium at ~1 m depth in certain zones

SAMPLE NUMBERS:
- SOIL
- PLACER GRAVEL
- ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: [illegible]
CREEK NAME: Casino
TYPE: Bench

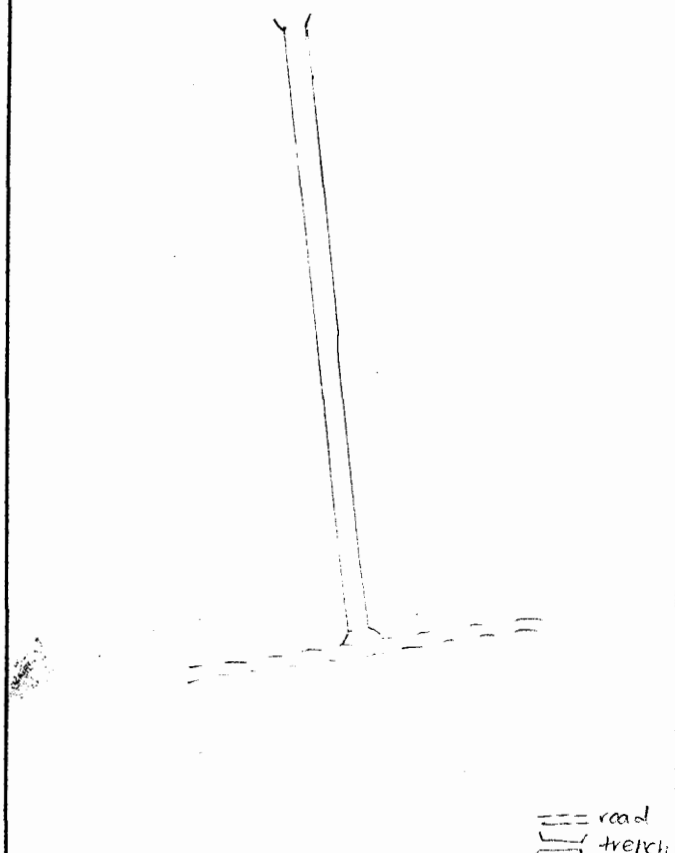
PIT IDENTIFICATION NUMBER: 9063 -D

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.3	m
EASTING		m	AVERAGE WIDTH	1.5	m
ELEVATION		m	LENGTH	40	m
AZIMUTH	174°	deg.	VOLUME	78	Cu.m
INCLINATION	2°	deg.		102.02	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE : 1:500)



TRENCH PROFILE
(SCALE : 1:20)



VEGETATION: willows, short to medium black spruce, grasses

ORGANICS: Roots, decaying organic matter = 40%
Silts = 60%

Colluvium: Brown to tan, poorly sorted Sandy Matrix Supported with subangular to subrounded fragments
20% silt, 50% fine to medium sands, 30% pebbles to cobbles with trace boulders.
Lithologies are granodiorite to quartz diorite.

gray and [illegible]
Some silt lenses at depth w/ ice crystals present -> difficult digging below this. appear alluvial in origin due to increase in detrital (?) pyrite. Likely [illegible]

On S end of trench gray silt layer is more massive (not lensoidal) with horizontal lineations (bedding?) and frozen solid.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: Leeds 3 fr
CREEK NAME: Casino
TYPE: Bench

PIT IDENTIFICATION NUMBER: 9063-E

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION		m
AZIMUTH	179	deg.
INCLINATION	5	deg.

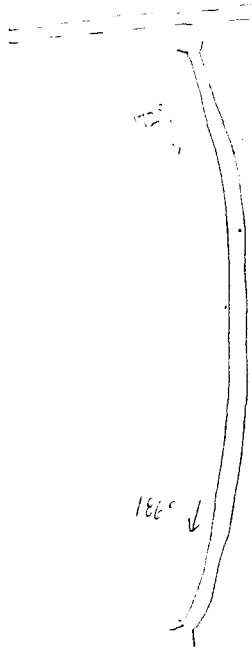
DIMENSIONS

AVERAGE DEPTH	1.3	m
AVERAGE WIDTH	1.1	m
LENGTH	38	m
VOLUME	54.34	Cu.m
	71.08	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:500)



trench
road

TRENCH PROFILE
(SCALE: 1:20)



VEGETATION: Thin moss cover, grasses, abundant willows, some stunted black spruce

ORGANICS: Decaying organic matter, roots, soils & silt.

COLLUVIUM: Fair to moderately sorted, medium brown
~~50%~~ 40% silt, sand, fine gravel, trace silt,
10% medium to coarse sand,
25% pebbles (fine to coarse)
15% cobbles >> boulders.
Mixed lithologies: fresh andesite, lesser limonite stained granodiorite. Possible foliation of mafics to some granodiorite fragments.
Fragments are subangular

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9074
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: 9074-D

SURVEY COORDINATES

NORTHING	255320 m	AZIMUTH	92° deg.
EASTING	110550 m	INCLINATION	20 deg.
ELEVATION	1245 m	LENGTH	7.6 m

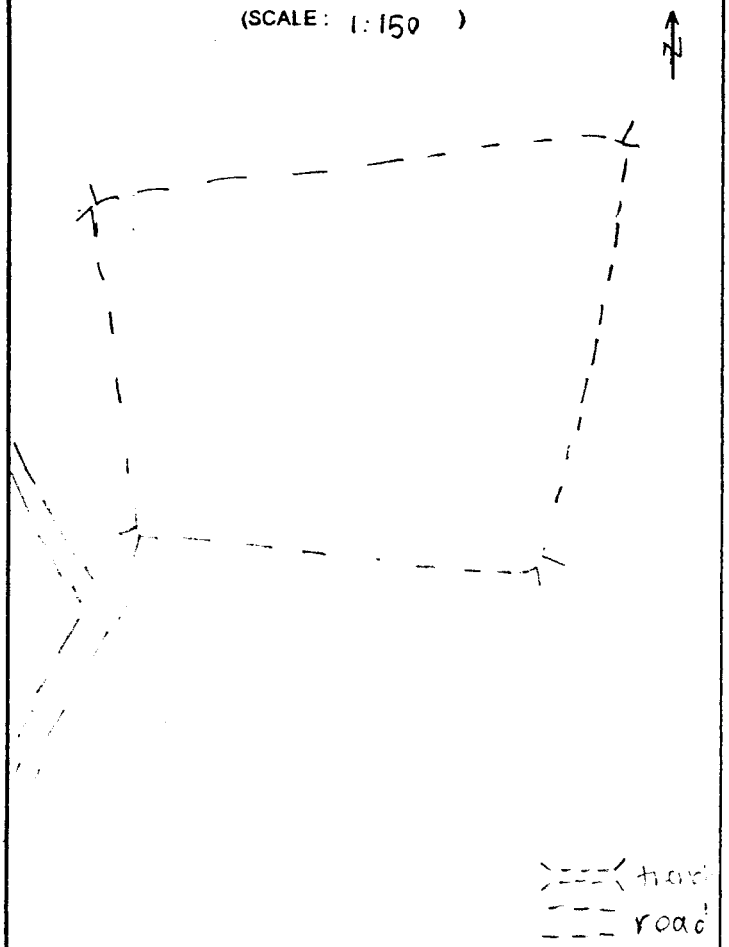
DIMENSIONS

AVERAGE DEPTH 4.3 m
AVERAGE WIDTH 6.8 m

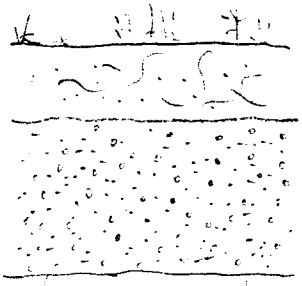
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Hitachi Hoe	$130.00	7	$910.00
Labour	27.50	1.5	41.25
TOTAL EXPENDITURES			951.25

PLAN VIEW
(SCALE: 1:150)



SOIL PROFILE
(SCALE: 1:50)



Black organic-rich soils; with carpeted, crowded and sands to pebbles

Residual Bedrock / Soils; -decomposed feldspars and quartz to sand size particles.

Bedrock: diorites +/- granodiorites

Possible near vertical fault

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9074
CREEK NAME: Canadian
TYPE: Bench

PIT IDENTIFICATION NUMBER: 9074 - E

SURVEY COORDINATES

NORTHING	255440	m	AZIMUTH	144	deg.
EASTING	110480	m	INCLINATION	0	deg.
ELEVATION	1240	m	LENGTH	160	m

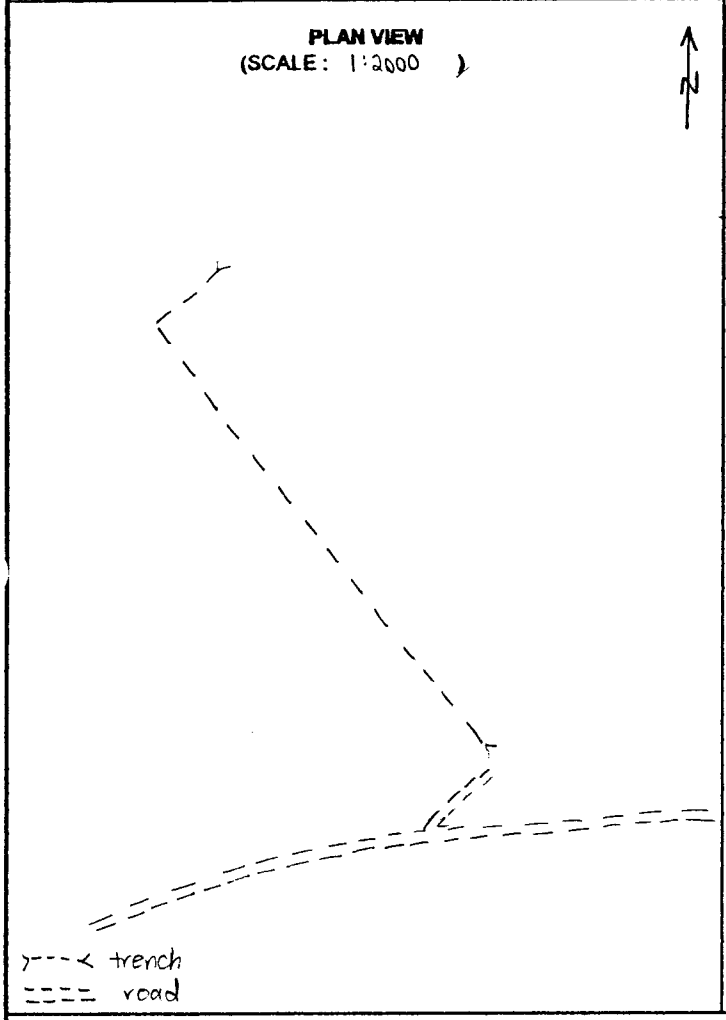
DIMENSIONS

AVERAGE DEPTH 1 m
AVERAGE WIDTH 2 m

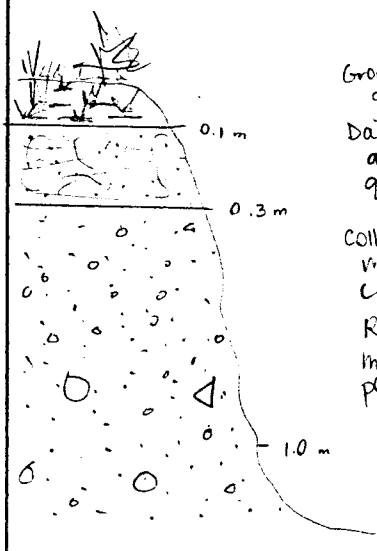
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Hitachi Hoe	$130.00	8	1040.00
Labour	27.50	3	82.50
TOTAL EXPENDITURES			$1122.50

PLAN VIEW
(SCALE: 1:2000)



SOIL PROFILE
(SCALE: 1:20)



Groundcover = mosses, willows, grasses lichen
Dark brown organic rich soils, abundant roots quite wet, saturated
Colluvium: Brown sandy silt with some pebbles and trace cobbles
Recognized lithologies: quartz monzonite >> granodiorite, patton porphyry
Quartz vining noted in cobbles.

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

FILE COPY

A9422484

Comments: ATTN: TOM BERGER

CERTIFICATE A9422484

PACIFIC SENTINEL GOLD

Project: CASINO-ABA
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-AUG-94.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	52	Geochem ring to approx 150 mesh
274	52	11-15 lb crush and split
286	52	Drying charge (11-15 pounds)
229	52	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	52	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	52	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	52	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	52	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	52	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	52	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	52	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	52	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	52	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	52	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	52	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	52	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	52	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	52	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	52	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	52	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	52	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	52	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	52	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	52	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	52	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	52	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	52	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	52	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	52	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	52	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	52	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	52	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	52	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	52	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	52	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	52	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	52	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

FILE COPY

Project : CASINO-ABA
Comments: ATTN: TOM BERGER

Par imbe -A
Tota ages 2
Certificate Date: 18-AUG-94
Invoice No. : I9422484
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9422484

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
598151	205	274	95	1.2	0.70	2	240	< 0.5	6	0.07	< 0.5	1	102	16	1.59	< 10	< 1	0.33	20	0.10	55
598152	205	274	185	1.0	0.88	6	280	< 0.5	6	0.02	< 0.5	1	142	20	1.63	< 10	< 1	0.56	20	0.09	65
598153	205	274	290	0.8	0.68	6	210	< 0.5	4	0.03	< 0.5	1	98	21	1.42	< 10	< 1	0.43	20	0.08	65
598154	205	274	140	0.4	0.68	6	140	< 0.5	< 2	0.04	< 0.5	1	120	6	0.73	< 10	< 1	0.37	20	0.06	70
598155	205	274	160	0.2	0.50	6	110	< 0.5	< 2	0.04	< 0.5	1	89	6	0.77	< 10	< 1	0.28	20	0.06	70
598156	205	274	550	2.6	0.92	16	390	< 0.5	14	0.04	< 0.5	1	116	33	2.52	< 10	< 1	0.71	20	0.10	65
598157	205	274	420	2.2	0.57	12	340	< 0.5	8	0.02	< 0.5	1	69	33	2.08	< 10	< 1	0.54	20	0.06	45
598158	205	274	75	0.8	1.19	6	240	< 0.5	4	0.09	< 0.5	3	107	22	2.19	< 10	< 1	0.33	10	0.19	110
598159	205	274	45	0.2	1.52	6	220	< 0.5	< 2	0.10	< 0.5	5	84	17	2.34	< 10	< 1	0.40	20	0.27	160
598160	205	274	70	0.2	1.11	4	270	< 0.5	< 2	0.03	< 0.5	1	130	13	1.75	< 10	< 1	0.65	30	0.12	60
598161	205	274	220	0.8	0.63	42	240	< 0.5	< 2	0.01	< 0.5	< 1	86	125	2.01	< 10	< 1	0.47	30	0.04	35
598162	205	274	230	1.6	0.98	2	150	< 0.5	< 2	0.01	< 0.5	1	105	230	4.15	< 10	< 1	1.10	20	0.12	15
598163	205	274	310	1.8	0.79	38	290	< 0.5	4	0.04	< 0.5	2	77	170	2.54	< 10	< 1	0.38	20	0.12	70
598164	205	274	305	1.4	0.49	12	190	< 0.5	< 2	< 0.01	< 0.5	< 1	84	61	2.83	< 10	< 1	0.79	20	0.04	15
598165	205	274	445	3.0	0.38	22	180	< 0.5	14	< 0.01	< 0.5	< 1	63	47	2.07	< 10	< 1	0.61	30	0.03	10
598166	205	274	55	0.4	0.81	14	210	< 0.5	2	0.04	< 0.5	3	80	17	2.79	< 10	< 1	0.55	10	0.12	85
598167	205	274	35	0.4	0.39	8	180	< 0.5	< 2	0.02	< 0.5	1	52	15	3.00	< 10	< 1	0.67	10	0.04	35
598168	205	274	205	0.8	0.93	10	180	< 0.5	< 2	0.06	< 0.5	8	103	212	4.25	< 10	< 1	0.35	30	0.11	130
598169	205	274	270	1.6	1.27	16	120	< 0.5	< 2	0.08	< 0.5	7	61	589	5.31	< 10	< 1	0.28	20	0.31	165
598170	205	274	615	4.8	1.38	134	250	< 0.5	4	0.04	< 0.5	3	87	775	6.55	< 10	< 1	0.66	20	0.28	100
598171	205	274	515	2.4	1.38	74	240	< 0.5	4	0.03	< 0.5	3	65	513	6.09	< 10	< 1	0.64	20	0.45	100
598172	205	274	470	0.8	0.97	18	130	< 0.5	< 2	0.04	< 0.5	3	78	861	5.31	< 10	< 1	0.31	40	0.09	105
598173	205	274	115	1.2	0.48	46	420	< 0.5	< 2	0.03	< 0.5	< 1	72	39	1.30	< 10	< 1	0.45	40	0.03	15
598174	205	274	195	0.4	1.67	48	580	2.0	< 2	0.15	< 0.5	22	72	1480	5.27	< 10	< 1	0.36	40	0.40	400
598175	205	274	115	0.6	2.69	34	760	0.5	< 2	0.49	< 0.5	25	46	1455	4.85	< 10	< 1	0.97	30	1.29	280
598176	205	274	220	1.4	1.48	22	190	< 0.5	2	0.11	< 0.5	6	99	424	4.54	< 10	< 1	0.49	30	0.35	125
598177	205	274	620	1.6	1.10	6	140	< 0.5	< 2	0.10	< 0.5	14	68	1135	3.82	< 10	< 1	0.47	40	0.46	415
598178	205	274	355	0.8	1.26	26	290	0.5	2	0.04	< 0.5	7	82	977	4.10	< 10	< 1	0.60	40	0.44	175
598179	205	274	405	1.4	1.47	22	880	< 0.5	< 2	0.08	< 0.5	9	65	1445	3.10	< 10	< 1	0.39	30	0.45	195
598180	205	274	165	1.0	1.16	12	230	< 0.5	2	0.15	< 0.5	4	42	430	4.81	< 10	< 1	0.48	30	0.48	125
598181	205	274	420	1.2	1.36	20	150	< 0.5	2	0.19	< 0.5	9	79	883	3.77	< 10	< 1	0.43	20	0.62	295
598182	205	274	115	0.4	2.28	10	480	< 0.5	< 2	0.46	< 0.5	13	85	862	4.77	< 10	< 1	0.44	30	0.90	305
598183	205	274	85	0.4	0.87	12	270	< 0.5	2	0.04	< 0.5	2	113	30	1.71	< 10	< 1	0.55	20	0.09	75
598184	205	274	120	0.4	0.72	10	260	< 0.5	2	0.05	< 0.5	2	153	62	2.00	< 10	< 1	0.38	20	0.07	95
598185	205	274	80	1.0	0.70	8	290	< 0.5	< 2	0.02	< 0.5	1	145	24	2.11	< 10	< 1	0.59	30	0.06	50
598186	205	274	85	1.2	0.80	6	370	< 0.5	2	0.03	< 0.5	1	146	20	2.12	< 10	< 1	0.63	20	0.07	35
598187	205	274	250	1.2	1.99	36	1370	1.0	2	0.16	< 0.5	23	108	1410	3.76	< 10	< 1	0.51	30	0.51	605
598188	205	274	290	0.4	2.05	30	450	1.5	< 2	0.21	< 0.5	14	64	1655	4.66	< 10	< 1	0.31	40	0.49	110
598189	205	274	185	0.6	1.84	36	900	2.5	< 2	0.15	< 0.5	60	62	2050	6.23	< 10	< 1	0.33	40	0.36	1080
598190	205	274	180	0.6	1.75	58	470	3.5	< 2	0.12	< 0.5	41	98	2020	7.87	< 10	< 1	0.40	40	0.24	1065

CERTIFICATION: Ian Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

FILE COPY

Project : CASINO-ABA
Comments: ATTN: TOM BERGER

Pa: umbe -B
Tot. ages .2
Certificate Date: 18-AUG-94
Invoice No. : I9422484
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9422484

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598151	205 274	1	0.01	2	160	30	< 2	1	11	0.01	< 10	< 10	18	< 10	14
598152	205 274	3	0.01	1	130	18	< 2	1	6	< 0.01	< 10	< 10	14	< 10	14
598153	205 274	4	0.01	1	120	14	< 2	1	6	< 0.01	< 10	< 10	12	< 10	14
598154	205 274	3	0.01	2	120	6	< 2	1	6	0.01	< 10	< 10	12	< 10	8
598155	205 274	1	0.01	2	120	8	< 2	1	5	0.01	< 10	< 10	10	< 10	8
598156	205 274	17	0.02	2	250	32	< 2	2	11	0.01	< 10	< 10	20	< 10	12
598157	205 274	13	0.01	1	180	28	< 2	1	8	< 0.01	< 10	< 10	14	< 10	18
598158	205 274	1	0.01	7	200	28	< 2	2	13	0.02	< 10	< 10	30	< 10	22
598159	205 274	10	0.02	12	210	18	< 2	2	19	0.04	< 10	< 10	33	< 10	30
598160	205 274	12	0.02	5	180	18	< 2	1	17	0.01	< 10	< 10	17	< 10	16
598161	205 274	45	0.01	< 1	630	30	2	1	10	< 0.01	< 10	< 10	13	< 10	12
598162	205 274	127	0.04	1	320	10	< 2	4	20	0.04	< 10	< 10	34	< 10	14
598163	205 274	72	0.01	4	420	38	12	1	13	0.01	< 10	< 10	21	< 10	28
598164	205 274	30	0.02	< 1	160	110	< 2	1	8	< 0.01	< 10	< 10	11	< 10	6
598165	205 274	23	0.01	1	150	262	22	1	14	< 0.01	< 10	< 10	9	< 10	6
598166	205 274	18	0.01	6	130	22	2	1	7	0.02	< 10	< 10	18	< 10	12
598167	205 274	11	0.01	1	120	62	< 2	1	7	0.01	< 10	< 10	11	< 10	8
598168	205 274	68	0.01	6	350	18	< 2	1	14	0.02	< 10	< 10	45	90	100
598169	205 274	63	0.01	10	320	22	< 2	2	13	0.02	< 10	< 10	37	< 10	70
598170	205 274	76	0.02	6	490	40	6	3	21	0.01	< 10	< 10	37	< 10	58
598171	205 274	60	0.03	7	440	20	2	2	19	0.02	< 10	< 10	33	< 10	56
598172	205 274	178	0.01	6	330	188	2	1	10	0.01	< 10	< 10	30	< 10	132
598173	205 274	114	0.01	1	250	24	4	< 1	17	< 0.01	< 10	< 10	2	< 10	6
598174	205 274	130	0.03	9	760	46	6	6	30	0.02	< 10	< 10	35	< 10	136
598175	205 274	35	0.07	11	740	14	< 2	15	50	0.12	< 10	< 10	111	< 10	156
598176	205 274	87	0.03	10	490	22	2	3	22	0.03	< 10	< 10	33	< 10	46
598177	205 274	177	0.02	10	440	12	< 2	3	18	0.04	< 10	< 10	35	< 10	86
598178	205 274	187	0.01	8	330	56	2	3	14	0.02	< 10	< 10	32	< 10	116
598179	205 274	156	0.02	6	570	34	2	5	41	0.03	< 10	< 10	45	< 10	70
598180	205 274	123	0.04	10	790	12	< 2	6	39	0.06	< 10	< 10	55	< 10	56
598181	205 274	108	0.02	13	530	22	< 2	4	19	0.07	< 10	< 10	47	< 10	74
598182	205 274	65	0.07	16	760	22	< 2	6	42	0.10	< 10	< 10	63	< 10	118
598183	205 274	3	0.02	3	150	18	< 2	1	9	< 0.01	< 10	< 10	13	< 10	14
598184	205 274	2	0.02	2	220	38	< 2	1	12	< 0.01	< 10	< 10	13	< 10	52
598185	205 274	6	0.02	3	170	18	2	1	12	< 0.01	< 10	< 10	12	< 10	8
598186	205 274	4	0.02	3	120	40	4	1	10	< 0.01	< 10	< 10	13	< 10	6
598187	205 274	88	0.04	9	530	34	4	6	40	0.03	< 10	< 10	37	< 10	80
598188	205 274	100	0.04	8	560	30	6	7	32	0.04	< 10	< 10	43	< 10	108
598189	205 274	141	0.03	7	770	28	2	6	33	0.02	< 10	< 10	30	< 10	128
598190	205 274	183	0.03	11	830	32	6	6	33	0.01	< 10	< 10	32	< 10	176

CERTIFICATION: Ian Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

T: PACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

FILE COPY

Project : CASINO-ABA
Comments: ATTN: TOM BERGER

F Numb :2-A
To Pages :2
Certificate Date: 18-AUG-94
Invoice No. :I9422484
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9422484

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
598191	205	274	230	1.0	1.58	78	260	3.0	2	0.20	< 0.5	18	21	1540	6.01	< 10	< 1	0.28	60	0.53	230
598192	205	274	30	0.6	0.71	14	640	< 0.5	< 2	0.13	< 0.5	3	70	182	1.60	< 10	1	0.30	10	0.20	70
598193	205	274	20	0.6	0.33	4	940	< 0.5	< 2	0.05	< 0.5	4	18	188	1.04	< 10	< 1	0.15	20	0.12	65
598194	205	274	75	0.2	3.14	28	710	1.0	< 2	0.57	< 0.5	28	25	1740	5.81	< 10	< 1	1.14	30	1.63	350
598195	205	274	15	0.4	1.04	20	580	< 0.5	< 2	0.31	< 0.5	7	17	91	2.31	< 10	< 1	0.20	20	0.40	275
598196	205	274	15	0.2	1.61	24	740	< 0.5	< 2	0.29	< 0.5	4	42	158	2.53	< 10	< 1	0.24	20	0.39	160
598197	205	274	35	0.4	1.50	40	560	< 0.5	< 2	0.23	< 0.5	4	22	259	3.42	< 10	< 1	0.12	10	0.29	100
598198	205	274	45	0.6	1.54	38	300	< 0.5	< 2	0.25	< 0.5	3	19	181	2.32	< 10	< 1	0.11	10	0.36	105
598199	205	274	50	0.2	2.16	40	340	< 0.5	< 2	0.18	< 0.5	4	28	714	7.63	< 10	< 1	0.09	10	0.26	100
598200	205	274	25	0.4	2.31	28	450	< 0.5	< 2	0.13	< 0.5	5	19	394	3.66	< 10	< 1	0.11	10	0.30	115
598201	205	274	25	0.2	2.90	30	440	< 0.5	< 2	0.15	< 0.5	6	29	398	3.33	< 10	< 1	0.18	10	0.37	125
598202	205	274	< 5	< 0.2	1.53	4	810	< 0.5	< 2	0.66	< 0.5	9	68	244	2.09	< 10	< 1	0.41	30	0.68	290

CERTIFICATION: Hart Buchler

brenda PROCESS TECHNOLOGY
2281 HUNTER ROAD, KELOWNA, B.C., CANADA V1X 7C5 TELEPHONE: (604) 861-5501 FAX: (604) 861-5210

Facsimile Transmision

Metallurgical and Environmental Laboratories

Brenda Process Technology

Date: Oct 26/94

To: Ron Konst - Pacific Sentinel Gold.

From: Jeffrey B. Austin - Senior Engineer - Metallurgical Laboratory

Project Number:

Pages included in transmission, including covering letter: 4

Ron,

Results as follows

Kind regards

Jeff Austin

Direct phone and fax numbers for the metallurgical and environmental laboratories are (604)-763-3220(phone) and (604)-860-0324(FAX).

brenda PROCESS TECHNOLOGY
Brenda Mines Ltd
2281 HUNTER ROAD, KELOWNA, B.C., CANADA V1X 7C5 TELEPHONE: (604) 861-5501 FAX: (604) 861-5210

October 26, 1994

Ron Konst
Senior Geologist
Pacific Sentinel Gold Corp.
1020 - 800 West Pender Street
Vancouver, B.C.
V6C 2V6

Dear Ron,

Please find attached the results of gravity gold recovery test work on 26 samples from the Casino Project. While coarse free gold was observed in many of the final concentrates produced, the overall gold content appeared to be varied and low for a large number of samples. The gold where it is available appears to upgrade relatively well, using the Knelson Concentrator.

Thank-you for the opportunity to provide this service, and if you have any questions, please call.

Yours very truly,

Jeffrey B. Austin, P.Eng.
Senior Engineer - Metallurgical Laboratory

Brenda Process Technology

Client: Pacific Sentinel Gold
Project : Casino Gold

Date: October 17, 1994

Sample	Pan Concentrate Weight gms	Pan Concentrate Assay g/t	Pan Tails Weight gms	Pan Tails Assay g/t	Concentrator Tails Weight gms	Concentrator Tails plus10 gms	Calculated Head g/t
TP-94-91 PL	1.05	561.90	44	0.03	3395	1921	0.11
TP-94-67 PL	3.95	31.65	80	0.41	2116	3496	0.03
TP-94-107 PL	0.91	115.56	71	0.07	1991	1745	0.03
TP-94-71 PL	2.02	13.37	84	0.03	2434	2682	0.01
TP-94-90 PL	0.74	4.05	75	0.17	1756	2921	0.00
TP-94-84 PL	0.82	340.24	81	0.27	2257	3134	0.06
TP-94-14 PL	1.70	94.71	79	0.31	2352	3610	0.03
TP-94-26 PL	1.23	78.05	30	0.07	1541	3109	0.02
TP-94-04 PL	1.08	89.81	77	0.10	1840	3644	0.02
TP-003-94 PL	0.60	18.33	87	0.10	1473	3642	0.00
TP-94-21 PL	0.63	144.44	77	0.14	2062	2884	0.02
TP-94-29 PL	0.66	10.61	71	0.03	2173	1882	0.00
TP-94-57 PL	1.36	307.35	84	8.91	1978	4078	0.19

Brenda Process Technology

Client: Pacific Sentinel Gold
Project : Casino Gold

Date: October 17, 1994

Sample	Pan Concentrate Weight gm	Pan Concentrate Assay g/t	Pan Tails Weight gms	Pan Tails Assay g/t	Concentrator Tails Weight gms	Concentrator Tails plus10 gms	Calculated Head g/t
TP-94-40 PL	0.95	26.32	88	0.21	1674	3845	0.01
TP-94-77 PL	1.79	81.01	85	0.14	2259	3578	0.03
TP-94-45 PL	2.81	94.66	73	0.17	2609	594	0.08
TP-94-43 PL	1.64	17.68	79	0.03	2933	1811	0.01
TP-94-35 PL	1.25	25.60	80	0.03	1932	2775	0.01
TP-94-94 PL	0.82	3808.54	83	5.38	1988	3834	0.60
TP-94-66 PL	1.76	71.02	85	0.10	3213	2636	0.02
TP-94-101 PL	1.58	157.59	82	8.37	2141	2968	0.18
TP-94-39 PL	1.70	23.53	83	0.21	2563	2009	0.01
TP-94-106 PL	1.72	879.65	74	0.03	1725	1935	0.41
TP-94-50 PL	3.16	43.04	82	0.03	1728	3531	0.03
TP-94-54 PL	4.88	1035.66	80	0.07	2116	3426	0.90
TP-94-61 PL	1.49	191.28	85	0.03	2258	3503	0.05

10/26/94 09:56 604 860 0324 BRENDA LABS. 004/004

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ..IFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

A9424053

Comments: ATTN: T.C. BECKER CC: LENA B.

CERTIFICATE A9424053

(IVZ) - PACIFIC SENTINEL GOLD

Project: CASINO-PLACER
P.O. # : Placer

Samples submitted to our lab in Vancouver, BC.
This report was printed on 6-SEP-94.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	11	Dry, sieve to -80 mesh
229	11	ICP - AQ Digestion charge

NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	11	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
6	11	Ag ppm: HNO3-aqua regia digest	AAS-BKGD CORR	0.2	100.0
2119	11	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	11	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	11	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	11	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	11	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	11	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	11	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	11	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	11	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	11	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	11	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	11	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	11	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	11	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	11	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	11	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	11	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	11	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	11	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	11	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	11	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	11	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	11	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	11	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	11	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	11	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	11	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	11	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	11	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	11	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	11	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To. PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-PLACER
Comments: ATTN: T.C. BECKER CC: LENA B.

Page Numb
Total Pages :1
Certificate Date: 06-SEP-94
Invoice No. :I9424053
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9424053

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S9008-340	201	229	5	0.4	2.34	28	340	< 0.5	4	0.55	0.5	15	31	16	3.43	10	< 1	0.10	20	0.69	1570
S9008-342	201	229	110	0.8	2.54	36	320	< 0.5	4	0.69	0.5	15	28	44	3.77	10	< 1	0.09	30	0.82	695
S9008-343	201	229	< 5	0.2	2.16	50	340	< 0.5	4	0.64	0.5	15	33	19	3.27	10	< 1	0.09	40	0.66	610
S9008-344	201	229	30	0.6	2.16	102	270	< 0.5	4	0.92	1.0	11	29	19	3.03	10	< 1	0.13	30	0.66	515
S9008-345	201	229	25	0.4	2.16	40	340	< 0.5	4	0.91	0.5	13	29	90	3.56	10	< 1	0.13	30	0.70	560
S9008-346	201	229	< 5	< 0.2	2.15	58	140	< 0.5	4	0.29	< 0.5	10	34	16	3.01	10	< 1	0.20	20	0.55	365
S9008-347	201	229	< 5	0.4	2.27	392	550	< 0.5	4	0.69	2.0	21	60	45	3.87	10	< 1	0.09	20	0.71	1050
S9008-348	201	229	30	0.4	1.99	28	430	< 0.5	4	0.79	1.5	17	24	107	3.71	10	< 1	0.16	30	0.64	910
S9008-349	201	229	< 5	< 0.2	1.60	10	220	< 0.5	4	1.00	< 0.5	13	22	18	3.48	10	< 1	0.14	20	0.68	645
S9008-350	201	229	55	0.4	1.54	42	280	< 0.5	4	0.63	0.5	16	22	87	4.12	10	< 1	0.13	20	0.55	675
S9008-351	201	229	< 5	< 0.2	3.62	8	190	< 0.5	< 2	0.74	< 0.5	21	29	28	5.86	20	< 1	1.01	40	1.64	965

CERTIFICATION: Jan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-PLACER
Comments: ATTN: T.C. BECKER CC: LENA B.

Page Numb :
Total Pages :1
Certificate Date: 06-SEP-94
Invoice No. :I9424053
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9424053

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S9008-340	201	229	1	0.01	16	760	72	< 2	9	34	0.11	< 10	< 10	77	10	196
S9008-342	201	229	2	0.01	16	570	50	4	9	42	0.12	< 10	< 10	84	10	150
S9008-343	201	229	< 1	0.01	20	530	48	< 2	9	36	0.11	< 10	< 10	71	10	138
S9008-344	201	229	1	0.02	18	650	64	4	9	48	0.11	< 10	< 10	67	10	220
S9008-345	201	229	2	0.02	18	820	28	4	9	65	0.12	< 10	< 10	72	10	124
S9008-346	201	229	1	0.01	19	320	18	2	7	27	0.18	< 10	< 10	76	10	66
S9008-347	201	229	2	0.01	33	950	12	2	10	41	0.12	< 10	< 10	116	10	136
S9008-348	201	229	2	0.01	15	890	72	< 2	8	53	0.10	< 10	< 10	72	10	174
S9008-349	201	229	2	0.01	12	770	6	2	10	44	0.12	< 10	< 10	77	10	86
S9008-350	201	229	3	0.02	14	900	88	2	7	29	0.09	< 10	< 10	75	20	144
S9008-351	201	229	1	0.02	12	680	4	< 2	24	26	0.27	< 10	< 10	158	10	104

CERTIFICATION: Ian H Becker

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-PLACER
Comments: ATTN: T.C. BECKER CC: LENA B.

Page Number . A
Total Pages :1
Certificate Date: 06-SEP-94
Invoice No. :I9424053
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9424053

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S9008-340	201	229	5	0.4	2.34	28	340	< 0.5	4	0.55	0.5	15	31	16	3.43	10	< 1	0.10	20	0.69	1570
S9008-342	201	229	110	0.8	2.54	36	320	< 0.5	4	0.69	0.5	15	28	44	3.77	10	< 1	0.09	30	0.82	695
S9008-343	201	229	< 5	0.2	2.16	50	340	< 0.5	4	0.64	0.5	15	33	19	3.27	10	< 1	0.09	40	0.66	610
S9008-344	201	229	30	0.6	2.16	102	270	< 0.5	4	0.92	1.0	11	29	19	3.03	10	< 1	0.13	30	0.66	515
S9008-345	201	229	25	0.4	2.16	40	340	< 0.5	4	0.91	0.5	13	29	90	3.56	10	< 1	0.13	30	0.70	560
S9008-346	201	229	< 5	< 0.2	2.15	58	140	< 0.5	4	0.29	< 0.5	10	34	16	3.01	10	< 1	0.20	20	0.55	365
S9008-347	201	229	< 5	0.4	2.27	392	550	< 0.5	4	0.69	2.0	21	60	45	3.87	10	< 1	0.09	20	0.71	1050
S9008-348	201	229	30	0.4	1.99	28	430	< 0.5	4	0.79	1.5	17	24	107	3.71	10	< 1	0.16	30	0.64	910
S9008-349	201	229	< 5	< 0.2	1.60	10	220	< 0.5	4	1.00	< 0.5	13	22	18	3.48	10	< 1	0.14	20	0.68	645
S9008-350	201	229	55	0.4	1.54	42	280	< 0.5	4	0.63	0.5	16	22	87	4.12	10	< 1	0.13	20	0.55	675
S9008-351	201	229	< 5	< 0.2	3.62	8	190	< 0.5	< 2	0.74	< 0.5	21	29	28	5.86	20	< 1	1.01	40	1.64	965

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-PLACER
Comments: ATTN: T.C. BECKER CC: LENA B.

Page Number : 1-B
Total Pages : 1
Certificate Date: 06-SEP-94
Invoice No. : I9424053
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9424053

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S9008-340	201	229	1	0.01	16	760	72	< 2	9	34	0.11	< 10	< 10	77	10	196
S9008-342	201	229	2	0.01	16	570	50	4	9	42	0.12	< 10	< 10	84	10	150
S9008-343	201	229	< 1	0.01	20	530	48	< 2	9	36	0.11	< 10	< 10	71	10	138
S9008-344	201	229	1	0.02	18	650	64	4	9	48	0.11	< 10	< 10	67	10	220
S9008-345	201	229	2	0.02	18	820	28	4	9	65	0.12	< 10	< 10	72	10	124
S9008-346	201	229	1	0.01	19	320	18	2	7	27	0.18	< 10	< 10	76	10	66
S9008-347	201	229	2	0.01	33	950	12	2	10	41	0.12	< 10	< 10	116	10	136
S9008-348	201	229	2	0.01	15	890	72	< 2	8	53	0.10	< 10	< 10	72	10	174
S9008-349	201	229	2	0.01	12	770	6	2	10	44	0.12	< 10	< 10	77	10	86
S9008-350	201	229	3	0.02	14	900	88	2	7	29	0.09	< 10	< 10	75	20	144
S9008-351	201	229	1	0.02	12	680	4	< 2	24	26	0.27	< 10	< 10	158	10	104

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-PLACER
Comments:

Page N 6 1-A
Total Pages :1
Certificate Date: 27-SEP-94
Invoice No. : I9426339
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9426339

SAMPLE	PREP CODE		Au ppb FA+AA	Au oz/T CN-AA	Cu %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
TP9424	208	226	< 5	< 0.001	< 0.01	< 0.2	1.98	10	270	< 0.5	< 2	0.33	< 0.5	9	98	66	3.34	< 10	< 1	0.20	10
TP9425	208	226	< 5	< 0.001	< 0.01	0.2	1.42	2	290	< 0.5	< 2	0.30	0.5	8	94	18	2.76	< 10	< 1	0.23	10
TP9427 A	208	226	< 5	< 0.001	< 0.01	< 0.2	2.50	6	270	< 0.5	6	0.39	< 0.5	11	70	23	3.26	< 10	< 1	0.11	10
TP9427 B	208	226	< 5	< 0.001	< 0.01	0.2	1.55	8	230	< 0.5	4	0.65	0.5	7	80	15	2.81	< 10	< 1	0.22	10
TP9430 A	208	226	< 5	< 0.001	< 0.01	0.2	1.93	24	260	< 0.5	< 2	0.16	0.5	12	65	24	3.24	< 10	< 1	0.18	20
TP9430 B	208	226	< 5	< 0.001	< 0.01	0.2	1.52	32	150	< 0.5	6	0.23	1.0	11	68	18	3.20	< 10	< 1	0.17	20
TP9430 C	208	226	< 5	< 0.001	< 0.01	1.2	1.45	44	180	< 0.5	< 2	0.28	5.0	12	87	70	3.20	< 10	< 1	0.14	20
TP9431	208	226	< 5	< 0.001	< 0.01	< 0.2	1.43	8	230	< 0.5	< 2	0.31	0.5	9	96	11	2.64	< 10	< 1	0.15	10
TP9432	208	226	< 5	< 0.001	< 0.01	0.2	1.36	8	250	< 0.5	< 2	0.27	0.5	7	77	10	2.87	< 10	< 1	0.29	20
TP9433	208	226	< 5	< 0.001	< 0.01	0.2	2.20	< 2	580	< 0.5	4	0.42	0.5	12	83	11	4.13	10	< 1	0.39	20
TP9434	208	226	< 5	< 0.001	< 0.01	0.2	0.97	328	220	< 0.5	< 2	0.20	< 0.5	5	108	8	2.32	< 10	< 1	0.28	30
TP9436	208	226	< 5	< 0.001	< 0.01	< 0.2	1.60	40	380	< 0.5	< 2	0.22	0.5	10	67	13	3.02	< 10	< 1	0.20	20
TP9438	208	226	< 5	< 0.001	< 0.01	0.2	0.67	78	150	< 0.5	< 2	0.12	0.5	3	54	13	1.63	< 10	< 1	0.22	30
TP9441	208	226	< 5	< 0.001	< 0.01	0.2	1.86	6	400	< 0.5	< 2	0.39	0.5	10	75	17	3.79	< 10	< 1	0.52	20
TP9442	208	226	< 5	< 0.001	< 0.01	< 0.2	1.64	66	340	< 0.5	< 2	0.35	< 0.5	8	87	8	2.88	< 10	< 1	0.36	20
TP9460	208	226	< 5	< 0.001	< 0.01	0.2	1.34	246	630	< 0.5	4	0.38	< 0.5	12	135	45	3.27	< 10	< 1	0.12	10
TP9462	208	226	< 5	< 0.001	< 0.01	< 0.2	1.65	6	100	< 0.5	< 2	0.51	< 0.5	7	86	23	1.97	< 10	< 1	0.27	10
TP9463	208	226	< 5	< 0.001	< 0.01	< 0.2	1.67	2	150	< 0.5	4	0.57	< 0.5	7	78	21	2.15	< 10	< 1	0.31	10
TP9464	208	226	< 5	< 0.001	< 0.01	0.2	2.08	< 2	150	< 0.5	2	0.50	0.5	9	82	58	2.79	< 10	< 1	0.43	30
TP9465	208	226	< 5	< 0.001	< 0.01	0.2	1.74	< 2	120	< 0.5	4	0.47	< 0.5	7	78	24	2.23	< 10	< 1	0.42	20
TP9468	208	226	< 5	< 0.001	< 0.01	< 0.2	2.31	2	130	< 0.5	4	0.88	< 0.5	7	73	9	2.39	< 10	< 1	0.49	10
TP9475	208	226	< 5	< 0.001	< 0.01	< 0.2	2.23	< 2	80	< 0.5	4	0.40	< 0.5	9	73	6	2.60	< 10	< 1	0.27	10
TP9476	208	226	< 5	< 0.001	< 0.01	< 0.2	2.46	< 2	130	< 0.5	2	0.53	0.5	10	61	12	3.26	< 10	< 1	0.29	20
TP9486	208	226	< 5	< 0.001	< 0.01	0.2	2.20	2	200	< 0.5	4	0.66	< 0.5	10	79	30	2.73	< 10	< 1	0.38	10
TP9493	208	226	< 5	< 0.001	< 0.01	0.4	1.48	< 2	260	< 0.5	6	0.27	0.5	8	82	9	2.58	< 10	< 1	0.29	20

CERTIFICATION: Ian Bucher

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-PLACER
Comments:

Certificate Date: 27-SEP-94
Invoice No. : I9426339
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9426339

SAMPLE	PREP CODE		Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TP9424	208	226	0.69	620	1	0.04	5	570	36	< 2	7	20	0.02	< 10	< 10	69	< 10	104
TP9425	208	226	0.69	770	< 1	0.04	6	460	22	< 2	7	17	0.08	< 10	< 10	69	< 10	96
TP9427 A	208	226	0.80	585	< 1	0.04	16	310	16	< 2	6	28	0.12	< 10	< 10	76	< 10	78
TP9427 B	208	226	0.80	630	< 1	0.05	4	460	22	< 2	6	23	0.18	< 10	< 10	75	< 10	102
TP9430 A	208	226	0.48	685	1	0.03	13	320	48	< 2	6	23	0.03	< 10	< 10	53	< 10	140
TP9430 B	208	226	0.57	1115	< 1	0.02	7	500	84	2	6	17	0.01	< 10	< 10	52	< 10	258
TP9430 C	208	226	0.36	1280	< 1	0.01	6	570	46	10	10	14	< 0.01	< 10	< 10	50	< 10	408
TP9431	208	226	0.52	1215	1	0.04	8	390	16	< 2	4	21	0.07	< 10	< 10	61	< 10	76
TP9432	208	226	0.34	595	< 1	0.03	6	430	20	< 2	6	14	0.04	< 10	< 10	42	< 10	86
TP9433	208	226	0.66	860	< 1	0.01	6	470	10	2	11	20	0.08	< 10	< 10	68	10	82
TP9434	208	226	0.11	835	< 1	0.01	6	340	46	< 2	3	12	< 0.01	< 10	< 10	21	< 10	126
TP9436	208	226	0.24	1760	< 1	0.01	6	290	50	4	10	17	< 0.01	< 10	< 10	50	< 10	198
TP9438	208	226	0.06	640	1	< 0.01	3	260	34	2	2	7	< 0.01	< 10	< 10	11	< 10	108
TP9441	208	226	0.62	520	< 1	0.04	6	490	20	< 2	11	22	0.08	< 10	< 10	68	< 10	104
TP9442	208	226	0.52	720	< 1	0.04	6	450	16	< 2	7	19	0.06	< 10	< 10	54	< 10	76
TP9460	208	226	0.29	380	3	0.02	36	910	10	2	7	28	0.05	< 10	< 10	100	< 10	126
TP9462	208	226	0.56	355	2	0.08	6	260	4	< 2	4	24	0.11	< 10	< 10	55	< 10	38
TP9463	208	226	0.66	355	1	0.10	7	300	6	< 2	5	29	0.14	< 10	< 10	63	< 10	46
TP9464	208	226	0.86	450	3	0.08	9	340	8	< 2	9	30	0.13	< 10	< 10	76	< 10	54
TP9465	208	226	0.94	415	< 1	0.11	4	200	4	< 2	8	23	0.11	< 10	< 10	64	< 10	42
TP9468	208	226	0.86	380	< 1	0.19	4	270	4	< 2	7	42	0.17	< 10	< 10	76	< 10	46
TP9475	208	226	0.87	460	< 1	0.09	5	130	2	< 2	10	25	0.05	< 10	< 10	72	< 10	40
TP9476	208	226	0.93	485	< 1	0.09	6	350	4	< 2	11	26	0.09	< 10	< 10	89	10	54
TP9486	208	226	0.94	420	1	0.12	9	260	2	< 2	8	34	0.15	< 10	< 10	89	< 10	48
TP9493	208	226	0.48	740	< 1	0.03	6	370	28	< 2	6	16	0.06	< 10	< 10	48	< 10	76

CERTIFICATION: Hartt Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

'ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EL
Comments: ATTN: MARK REBAGLIATI

Page Nu
Total Page .1
Certificate Date: 06-AUG-94
Invoice No. : I9421056
P.O. Number :
Account : IVZ

94-340

CERTIFICATE OF ANALYSIS A9421056

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
927731	214 --	112	0.01	< 0.001	< 0.03
927732	214 --	110	< 0.01	< 0.001	< 0.03
927733	214 --	126	< 0.01	< 0.001	< 0.03
927734	214 --	129	< 0.01	< 0.001	< 0.03
927735	214 --	137	< 0.01	< 0.001	< 0.03
927736	214 --	132	< 0.01	< 0.001	< 0.03
927737	214 --	125	< 0.01	< 0.001	< 0.03
927738	214 --	138	< 0.01	< 0.001	< 0.03
927739	214 --	133	< 0.01	0.001	< 0.03
927740	214 --	125	0.08	0.043	0.62
927741	214 --	122	< 0.01	< 0.001	< 0.03

CERTIFICATION: Earl Ernst

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

94-340

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EL
Comments: ATTN: MARK REBAGLIATI

Page : 1
Total Pages : 1
Certificate Date: 04-AUG-94
Invoice No. : I9421058
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9421058

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
927731-32	283	--	< 0.01	< 0.01								
927733-34	283	--	< 0.01	< 0.01								
927735-36	283	--	< 0.01	< 0.01								
927737-38	283	--	< 0.01	< 0.01								
927739-40	283	--	0.01	< 0.01								
927741	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.06	0.06								
DIGENITE	--	--	0.02	0.06								
CHALCOPYRITE	--	--	0.04	0.02								

CERTIFICATION: Barb Ternak

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EM
Comments: ATTN: MARK REBAGLIATI

Page :1
Total Pag :1
Certificate Date: 08-AUG-94
Invoice No. :19421053
P.O. Number :
Account :IVZ

94-341

CERTIFICATE OF ANALYSIS A9421053

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
927702	214 --	129	0.01	0.002	0.07
927703	214 --	113	0.01	0.002	< 0.03
927704	214 --	144	0.01	0.002	< 0.03
927705	214 --	125	< 0.01	0.001	0.07
927706	214 --	124	< 0.01	0.001	< 0.03
927707	214 --	122	< 0.01	0.002	< 0.03
927708	214 --	148	< 0.01	0.002	0.10
927709	214 --	127	< 0.01	0.002	0.14
927710	214 --	117	< 0.01	0.002	0.14
927711	214 --	107	0.01	0.002	0.14
927712	214 --	115	< 0.01	0.003	0.17
927713	214 --	137	< 0.01	0.002	< 0.03
927714	214 --	123	< 0.01	0.002	< 0.03
927715	214 --	141	0.01	0.002	< 0.03
927716	214 --	104	0.06	0.001	< 0.03
927717	214 --	143	0.05	0.002	0.07
927718	214 --	104	0.08	0.001	0.10
927719	214 --	117	0.12	0.002	0.10
927720	214 --	124	0.08	0.042	0.72
927721	214 --	147	0.08	0.002	0.07
927722	214 --	137	0.12	0.002	< 0.03
927723	214 --	128	0.11	0.002	0.10
927724	214 --	106	0.14	0.002	0.07
927725	214 --	119	0.23	0.002	0.24
927726	214 --	111	0.18	0.003	0.07
927727	214 --	120	0.15	0.002	0.10
927728	214 --	139	0.15	0.003	0.10
927729	214 --	121	0.85	0.004	1.99
927730	214 --	119	0.52	0.003	1.13

CERTIFICATION: David Chiu

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EM
Comments: ATTN: MARK REBAGLIATI

Page Number :1
Total Pages :1
Certificate Date: 04-AUG-9
Invoice No. :19421055
P.O. Number :
Account :IVZ

94-341

CERTIFICATE OF ANALYSIS A9421055

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc
927702-03	283	--	< 0.01	< 0.01
927704-05	283	--	< 0.01	< 0.01
927706-07	283	--	< 0.01	< 0.01
927708-09	283	--	< 0.01	< 0.01
927710-11	283	--	< 0.01	< 0.01
927712-13	283	--	< 0.01	< 0.01
927714-15	283	--	< 0.01	< 0.01
927716-17	283	--	0.01	< 0.01
927718-19	283	--	0.02	0.01
927720-21	283	--	0.02	0.01
927722-23	283	--	0.03	0.02
927724-25	283	--	0.04	0.04
927726-27	283	--	0.04	0.04
927728-29	283	--	0.17	0.11
927730	283	--	0.21	0.10
CHALCOCITE	--	--	0.06	0.06
DIGENITE	--	--	0.02	0.06
CHALCOPYRITE	--	--	0.04	0.02

CERTIFICATION: Said Tsimb

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EM
Comments: ATTN: MARK REBAGLIATI

Page Number : 1-A
Total Pages : 1
Certificate Date: 04-AUG-9
Invoice No. : I9421054
P.O. Number :
Account : IVZ

94-341

CERTIFICATE OF ANALYSIS A9421054

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
927702	299	229	0.6	0.97	20	630	< 0.5	2	0.15	< 0.5	2	176	79	1.70	< 10	< 1	0.47	20	0.14	90	17
927703	299	229	0.6	0.74	20	1020	< 0.5	2	0.07	< 0.5	1	261	42	1.43	< 10	< 1	0.45	10	0.06	45	15
927704	299	229	0.6	0.66	34	820	< 0.5	2	0.03	< 0.5	1	243	46	1.48	< 10	< 1	0.43	10	0.05	40	20
927705	299	229	0.6	0.74	4	400	< 0.5	< 2	0.02	< 0.5	< 1	160	13	1.25	< 10	< 1	0.55	20	0.05	15	7
927706	299	229	0.6	0.75	10	260	< 0.5	< 2	0.02	< 0.5	1	169	14	2.03	< 10	< 1	0.59	20	0.04	15	13
927707	299	229	0.8	0.60	14	230	< 0.5	< 2	0.02	< 0.5	< 1	142	17	2.03	< 10	< 1	0.54	20	0.04	15	11
927708	299	229	1.2	0.64	32	270	< 0.5	4	0.01	< 0.5	< 1	150	18	2.35	< 10	< 1	0.73	20	0.04	15	14
927709	299	229	1.6	0.65	40	280	< 0.5	2	0.01	< 0.5	< 1	151	14	1.83	< 10	1	0.61	20	0.04	15	10
927710	299	229	1.6	0.73	24	230	< 0.5	2	0.01	< 0.5	< 1	166	22	1.71	< 10	< 1	0.55	20	0.04	15	14
927711	299	229	2.6	0.81	42	320	< 0.5	6	0.01	< 0.5	< 1	158	25	1.87	< 10	< 1	0.64	30	0.06	20	13
927712	299	229	1.6	0.77	50	280	< 0.5	6	0.01	< 0.5	< 1	160	16	2.71	< 10	< 1	0.67	20	0.06	15	21
927713	299	229	1.2	0.74	34	160	< 0.5	8	0.01	< 0.5	1	137	16	1.69	< 10	< 1	0.49	20	0.06	15	11
927714	299	229	1.6	0.80	22	90	< 0.5	4	0.02	< 0.5	7	126	18	2.86	< 10	< 1	0.41	20	0.06	10	12
927715	299	229	0.8	0.87	34	20	< 0.5	< 2	0.02	< 0.5	19	118	79	6.55	< 10	1	0.35	10	0.06	25	11
927716	299	229	1.0	1.09	30	20	< 0.5	2	0.04	< 0.5	12	110	656	4.17	< 10	< 1	0.35	10	0.08	15	8
927717	299	229	0.6	0.82	100	40	< 0.5	< 2	0.02	< 0.5	10	126	443	3.68	< 10	< 1	0.35	10	0.07	15	11
927718	299	229	1.2	0.92	62	50	< 0.5	< 2	0.03	0.5	10	106	781	3.60	< 10	< 1	0.37	20	0.06	15	6
927719	299	229	1.0	1.12	90	10	< 0.5	< 2	0.03	< 0.5	17	127	1210	4.50	< 10	< 1	0.53	20	0.10	15	12
927720	299	229	4.0	1.21	38	400	< 0.5	2	0.02	< 0.5	4	167	826	4.41	< 10	< 1	0.66	40	0.28	70	259
927721	299	229	2.0	1.18	36	40	< 0.5	4	0.17	1.0	14	130	873	3.33	< 10	< 1	0.41	20	0.11	345	8
927722	299	229	0.4	1.27	8	20	< 0.5	< 2	0.10	< 0.5	11	128	1230	4.64	< 10	< 1	0.45	10	0.08	45	11
927723	299	229	0.8	1.17	20	10	< 0.5	< 2	0.15	< 0.5	10	100	1110	5.00	< 10	< 1	0.41	20	0.08	60	5
927724	299	229	0.8	1.25	26	10	< 0.5	< 2	0.36	< 0.5	14	111	1450	5.77	< 10	1	0.41	10	0.16	135	9
927725	299	229	2.0	1.83	110	10	< 0.5	2	0.12	< 0.5	14	107	2280	4.71	< 10	1	0.47	20	0.09	20	7
927726	299	229	0.8	1.51	130	20	< 0.5	< 2	0.11	1.0	29	140	1770	4.56	< 10	< 1	0.47	10	0.09	110	17
927727	299	229	0.4	1.25	42	20	< 0.5	< 2	0.08	< 0.5	12	120	1510	5.32	< 10	< 1	0.40	10	0.07	15	6
927728	299	229	0.2	1.13	42	20	< 0.5	< 2	0.08	< 0.5	11	120	1585	5.54	< 10	< 1	0.37	10	0.06	15	9
927729	299	229	1.2	2.61	298	10	< 0.5	< 2	0.03	0.5	8	98	8410	>15.00	< 10	1	0.14	10	0.03	20	13
927730	299	229	2.4	2.97	292	< 10	< 0.5	6	0.05	1.0	10	100	5370	>15.00	< 10	< 1	0.30	10	0.05	40	13

CERTIFICATION: Hans Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EM
Comments: ATTN: MARK REBAGLIATI

Page Number :1-B
Total Pages :1
Certificate Date: 04-AUG-94
Invoice No. :19421054
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9421054

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
927702	299	229	0.02	16	270	72	2	2	39	0.01	< 10	< 10	19	240	56
927703	299	229	0.01	12	180	46	4	1	43	< 0.01	< 10	< 10	11	100	48
927704	299	229	0.01	13	210	72	4	1	34	< 0.01	< 10	< 10	11	110	28
927705	299	229	0.02	4	50	14	2	1	11	< 0.01	< 10	< 10	10	< 10	4
927706	299	229	0.01	5	80	20	< 2	1	17	< 0.01	< 10	< 10	9	< 10	6
927707	299	229	0.01	4	150	12	2	1	31	< 0.01	< 10	< 10	7	< 10	8
927708	299	229	0.01	7	220	36	6	1	41	< 0.01	< 10	< 10	8	< 10	16
927709	299	229	0.01	6	230	12	6	1	58	< 0.01	< 10	< 10	8	< 10	4
927710	299	229	0.01	4	180	10	10	1	61	< 0.01	< 10	< 10	12	< 10	12
927711	299	229	0.01	3	340	22	20	1	119	< 0.01	< 10	< 10	11	< 10	6
927712	299	229	0.02	6	470	34	8	1	144	< 0.01	< 10	< 10	10	< 10	8
927713	299	229	0.01	4	420	30	8	1	135	< 0.01	< 10	< 10	4	< 10	6
927714	299	229	0.01	5	390	16	6	2	122	< 0.01	< 10	< 10	6	< 10	8
927715	299	229	0.01	7	140	8	4	3	22	< 0.01	< 10	< 10	13	< 10	30
927716	299	229	0.01	6	250	4	4	3	21	< 0.01	< 10	< 10	12	< 10	24
927717	299	229	0.01	6	150	8	6	4	16	< 0.01	< 10	< 10	6	< 10	26
927718	299	229	0.01	6	250	36	8	7	19	< 0.01	< 10	< 10	8	< 10	64
927719	299	229	0.01	7	360	4	8	7	62	< 0.01	< 10	< 10	11	< 10	20
927720	299	229	0.02	8	410	146	4	2	19	0.01	< 10	< 10	25	< 10	82
927721	299	229	0.01	6	480	16	12	2	21	< 0.01	< 10	< 10	9	< 10	142
927722	299	229	0.01	7	610	6	4	3	28	< 0.01	< 10	< 10	11	< 10	38
927723	299	229	0.01	7	710	4	6	2	20	< 0.01	< 10	< 10	13	< 10	72
927724	299	229	0.01	7	800	2	4	3	35	< 0.01	< 10	< 10	15	< 10	56
927725	299	229	0.01	8	1090	8	18	4	118	< 0.01	< 10	< 10	17	< 10	56
927726	299	229	0.01	7	750	8	12	2	69	< 0.01	< 10	< 10	12	< 10	154
927727	299	229	0.01	7	700	4	2	2	107	< 0.01	< 10	< 10	11	< 10	18
927728	299	229	0.01	5	550	6	4	2	69	< 0.01	< 10	< 10	11	< 10	20
927729	299	229	< 0.01	5	1760	28	< 2	6	100	< 0.01	< 10	10	11	< 10	36
927730	299	229	0.01	7	640	44	2	4	50	< 0.01	< 10	10	24	< 10	96

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EN
Comments: ATTN: MARK REBAGLIATI

Certificate Date: 04-AUG-9
Invoice No. : I9421050
P.O. Number :
Account : IVZ

94-342

CERTIFICATE OF ANALYSIS A9421050

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
927551	214 --	124	0.03	0.002	0.07
927552	214 --	113	0.01	0.002	< 0.03
927553	214 --	124	0.01	0.002	< 0.03
927554	214 --	124	0.01	0.002	0.07
927555	214 --	123	0.01	0.003	< 0.03
927556	214 --	142	0.01	0.002	< 0.03
927557	214 --	125	0.01	0.002	< 0.03
927558	214 --	142	0.01	0.003	< 0.03
927559	214 --	113	0.01	0.002	< 0.03
927560	214 --	122	0.06	0.056	1.10
927561	214 --	139	0.01	< 0.001	< 0.03

CERTIFICATION: Saïd Tehrani

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EN
Comments: ATTN: MARK REBAGLIATI

Page Number :1
Total Pages :1
Certificate Date: 04-AUG-
Invoice No. : I942105
P.O. Number :
Account :IVZ

94-342

CERTIFICATE OF ANALYSIS A9421052

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc							
927551-52	283	--	0.01	< 0.01							
927553-54	283	--	< 0.01	< 0.01							
927555-56	283	--	< 0.01	< 0.01							
927557-58	283	--	< 0.01	< 0.01							
927559-60	283	--	< 0.01	< 0.01							
927561	283	--	< 0.01	< 0.01							
CHALCOCITE	--	--	0.05	0.06							
DIGENITE	--	--	0.01	0.06							
CHALCOPYRITE	--	--	0.03	0.02							

CERTIFICATION: Said Eingat

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EN
Comments: ATTN: MARK REBAGLIATI

Page Nu : 1-A
Total Pa : 1
Certificate Date: 04-AUG-9
Invoice No. : I9421051
P.O. Number :
Account : IVZ

94-342

CERTIFICATE OF ANALYSIS A9421051

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
927551	299	229	0.4	1.51	14	90	< 0.5	< 2	1.65	1.0	10	124	257	3.49	10	< 1	0.23	20	0.90	625	8
927552	299	229	0.2	1.13	12	100	< 0.5	< 2	2.00	0.5	10	134	90	2.78	< 10	< 1	0.22	20	0.78	670	9
927553	299	229	0.2	1.30	12	130	< 0.5	2	1.53	1.0	9	135	53	2.77	10	< 1	0.18	20	0.86	625	8
927554	299	229	0.2	1.16	4	140	< 0.5	2	1.73	1.0	9	130	46	2.74	10	< 1	0.23	30	0.74	610	9
927555	299	229	0.2	1.45	14	140	< 0.5	< 2	1.64	0.5	9	144	37	2.83	10	< 1	0.22	30	0.94	620	12
927556	299	229	0.4	1.33	34	60	< 0.5	< 2	2.35	0.5	9	116	85	3.08	10	< 1	0.29	20	0.83	645	8
927557	299	229	0.2	1.12	44	120	< 0.5	2	2.94	0.5	8	133	68	2.90	< 10	< 1	0.31	10	0.88	670	11
927558	299	229	0.2	0.99	30	150	< 0.5	2	2.87	0.5	8	116	46	2.78	< 10	< 1	0.27	10	0.86	640	10
927559	299	229	0.4	1.24	14	70	< 0.5	< 2	1.49	0.5	9	136	64	2.59	< 10	< 1	0.21	20	0.76	570	12
927560	299	229	3.0	0.62	58	270	< 0.5	2	0.01	< 0.5	2	155	577	3.58	< 10	< 1	0.43	30	0.08	45	313
927561	299	229	0.4	1.35	10	120	< 0.5	< 2	1.46	1.0	10	124	56	2.87	10	< 1	0.17	20	0.90	565	6

CERTIFICATION: Stan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EN
Comments: ATTN: MARK REBAGLIATI

Page Nu : 1-B
Total Pa : 1
Certificate Date: 04-AUG-9
Invoice No. : I9421051
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9421051

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
927551	299	229	0.04	5	530	24	< 2	8	43	< 0.01	< 10	< 10	47	< 10	130
927552	299	229	0.02	4	450	28	2	7	38	< 0.01	< 10	< 10	35	< 10	110
927553	299	229	0.05	4	420	24	2	8	41	< 0.01	< 10	< 10	47	< 10	128
927554	299	229	0.04	3	410	22	< 2	7	72	< 0.01	< 10	< 10	41	< 10	112
927555	299	229	0.06	6	430	16	< 2	8	54	< 0.01	< 10	< 10	49	< 10	104
927556	299	229	0.03	5	410	28	2	6	60	< 0.01	< 10	< 10	37	< 10	96
927557	299	229	0.02	3	410	24	2	5	70	< 0.01	< 10	< 10	28	< 10	94
927558	299	229	0.02	3	380	22	2	5	86	< 0.01	< 10	< 10	28	10	88
927559	299	229	0.04	6	390	20	< 2	6	72	< 0.01	< 10	< 10	37	< 10	114
927560	299	229	0.01	7	330	234	10	1	11	< 0.01	< 10	< 10	16	< 10	68
927561	299	229	0.05	5	430	28	2	8	51	< 0.01	< 10	< 10	43	< 10	144

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EO
Comments: ATTN: MARK REBAGLIATI

Page Nu: :1
Total Page :1
Certificate D: 06-AUG-94
Invoice No. : I9421059
P.O. Number :
Account :IVZ

94-343

CERTIFICATE OF ANALYSIS A9421059

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
927562	214 --	136	< 0.01	0.002	< 0.03
927563	214 --	139	< 0.01	0.001	< 0.03
927564	214 --	116	< 0.01	0.002	< 0.03
927565	214 --	106	< 0.01	0.001	< 0.03
927566	214 --	120	< 0.01	0.002	< 0.03
927567	214 --	142	< 0.01	0.001	< 0.03
927568	214 --	128	< 0.01	0.001	< 0.03
927569	214 --	137	< 0.01	0.001	< 0.03
927570	214 --	113	< 0.01	0.002	< 0.03
927571	214 --	144	< 0.01	0.001	< 0.03

CERTIFICATION: David Chamb

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EO
Comments: ATTN: MARK REBAGLIATI

Page Number : 1
Total Pages : 1
Certificate Date: 04-AUG-94
Invoice No. : I9421061
P.O. Number :
Account : IVZ

94-343

CERTIFICATE OF ANALYSIS A9421061

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
927562-63	283	--	< 0.01	< 0.01								
927564-65	283	--	< 0.01	< 0.01								
927566-67	283	--	< 0.01	< 0.01								
927568-69	283	--	< 0.01	< 0.01								
927570-71	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.06	0.06								
DIGENITE	--	--	0.02	0.06								
CHALCOPYRITE	--	--	0.04	0.02								

CERTIFICATION: Said Eirnak

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EO
Comments: ATTN: MARK REBAGLIATI

Page Nu r :1-A
Total Pag :1
Certificate Date: 04-AUG-9.
Invoice No. :I9421060
P.O. Number :
Account :IVZ

94-343

CERTIFICATE OF ANALYSIS A9421060

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
927562	299	229	0.4	0.81	14	420	< 0.5	2	0.15	< 0.5	3	162	14	1.37	< 10	< 1	0.30	40	0.14	325	11
927563	299	229	< 0.2	0.78	8	240	< 0.5	< 2	0.32	< 0.5	3	146	7	1.52	< 10	< 1	0.36	40	0.31	380	6
927564	299	229	< 0.2	0.90	46	290	< 0.5	< 2	0.28	0.5	3	162	8	1.67	< 10	< 1	0.44	30	0.40	395	10
927565	299	229	< 0.2	0.72	56	190	< 0.5	< 2	0.40	< 0.5	2	168	7	1.39	< 10	< 1	0.33	30	0.28	380	7
927566	299	229	< 0.2	0.79	60	220	< 0.5	< 2	0.39	< 0.5	3	175	6	1.49	< 10	< 1	0.38	30	0.31	420	11
927567	299	229	0.2	0.80	252	210	< 0.5	< 2	0.38	1.0	3	140	7	1.48	< 10	< 1	0.34	30	0.27	345	6
927568	299	229	0.2	0.81	12	230	< 0.5	< 2	0.31	< 0.5	3	151	7	1.59	< 10	< 1	0.35	30	0.31	460	10
927569	299	229	< 0.2	0.85	8	260	< 0.5	< 2	0.47	< 0.5	3	142	4	1.66	< 10	< 1	0.38	30	0.42	445	6
927570	299	229	< 0.2	0.96	4	290	< 0.5	< 2	0.48	< 0.5	4	162	4	1.80	< 10	< 1	0.42	30	0.46	450	10
927571	299	229	0.2	0.94	190	120	< 0.5	< 2	1.61	3.5	5	132	7	2.22	< 10	< 1	0.22	30	0.47	680	4

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EO
Comments: ATTN: MARK REBAGLIATI

Page Number :1-B
Total P :1
Certificate Date: 04-AUG-
Invoice No. :I942106
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9421060

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
927562	299	229	0.04	4	230	28	2	2	11	0.01	< 10	< 10	17	< 10	60
927563	299	229	0.07	3	210	8	< 2	3	17	0.04	< 10	< 10	25	< 10	50
927564	299	229	0.08	4	220	8	< 2	4	16	0.09	< 10	< 10	31	< 10	104
927565	299	229	0.07	3	170	14	< 2	2	18	0.03	< 10	< 10	20	< 10	42
927566	299	229	0.07	3	190	14	< 2	3	19	0.04	< 10	< 10	24	< 10	90
927567	299	229	0.04	4	210	14	2	2	17	0.03	< 10	< 10	21	< 10	98
927568	299	229	0.06	4	220	8	2	4	15	0.04	< 10	< 10	27	< 10	50
927569	299	229	0.08	4	230	2	< 2	4	20	0.07	< 10	< 10	32	< 10	62
927570	299	229	0.09	4	250	8	< 2	4	23	0.07	< 10	< 10	36	< 10	40
927571	299	229	0.02	4	280	20	4	4	52	< 0.01	< 10	< 10	22	< 10	286

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EP
Comments: ATTN: MARK REBAGLIATI

Page N er :1
Total Pa :1
Certificate Date: 04-AUG-9
Invoice No. : I9421064
P.O. Number :
Account :IVZ

94-344

CERTIFICATE OF ANALYSIS A9421064

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
927572-73	283	--	< 0.01	< 0.01								
927574-75	283	--	< 0.01	< 0.01								
927576-77	283	--	< 0.01	< 0.01								
927578-79	283	--	< 0.01	< 0.01								
927580-81	283	--	0.01	< 0.01								
927582	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.06	0.06								
DIGENITE	--	--	0.02	0.06								
CHALCOPYRITE	--	--	0.04	0.02								

CERTIFICATION: David Lenda

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EP
Comments: ATTN: MARK REBAGLIATI

Page Nu : 1
Total Pag. : 1
Certificate : 06-AUG-94
Invoice No. : I9421062
P.O. Number :
Account : IVZ

94-344

CERTIFICATE OF ANALYSIS A9421062

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
927572	214 --	111	< 0.01	0.001	< 0.03
927573	214 --	124	< 0.01	0.001	< 0.03
927574	214 --	121	< 0.01	0.001	< 0.03
927575	214 --	131	< 0.01	0.001	< 0.03
927576	214 --	111	< 0.01	0.002	< 0.03
927577	214 --	137	< 0.01	0.001	< 0.03
927578	214 --	129	< 0.01	0.001	< 0.03
927579	214 --	184	< 0.01	0.001	< 0.03
927580	214 --	125	0.09	0.045	0.65
927581	214 --	134	< 0.01	0.002	< 0.03
927582	214 --	124	< 0.01	0.001	< 0.03

CERTIFICATION: Saied Tehrani

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EP
Comments: ATTN: MARK REBAGLIATI

Page Num :1-A
Total Page :1
Certificate Da: 04-AUG-94
Invoice No. :I9421063
P.O. Number :
Account :IVZ

GH-344

CERTIFICATE OF ANALYSIS A9421063

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
927572	299	229	0.4	0.95	38	330	0.5	< 2	0.38	1.5	3	127	8	1.37	< 10	< 1	0.32	30	0.20	915	8
927573	299	229	0.4	1.04	20	100	0.5	< 2	0.32	0.5	5	124	4	1.68	< 10	< 1	0.21	30	0.19	825	4
927574	299	229	0.2	1.02	12	100	0.5	< 2	0.81	< 0.5	4	104	3	1.62	< 10	< 1	0.24	30	0.38	1080	6
927575	299	229	0.2	1.26	20	180	0.5	< 2	1.08	< 0.5	5	112	5	1.88	10	< 1	0.29	40	0.43	895	4
927576	299	229	0.2	0.75	26	830	< 0.5	< 2	0.65	< 0.5	2	120	19	1.08	< 10	< 1	0.26	20	0.25	440	8
927577	299	229	0.8	0.97	10	140	< 0.5	< 2	1.11	< 0.5	3	118	5	1.51	< 10	< 1	0.24	30	0.36	595	4
927578	299	229	< 0.2	0.70	12	150	< 0.5	< 2	0.95	< 0.5	2	147	7	1.15	< 10	< 1	0.29	20	0.29	405	9
927579	299	229	0.2	0.68	8	120	< 0.5	< 2	1.18	< 0.5	3	135	1	1.19	< 10	< 1	0.27	20	0.30	530	6
927580	299	229	3.6	1.20	32	390	< 0.5	2	0.02	< 0.5	3	162	817	4.20	< 10	< 1	0.66	40	0.27	70	242
927581	299	229	0.2	0.86	8	100	< 0.5	< 2	0.43	< 0.5	4	129	10	1.31	< 10	< 1	0.23	30	0.23	650	9
927582	299	229	0.4	1.01	6	260	< 0.5	2	1.12	< 0.5	4	124	4	1.40	< 10	< 1	0.25	30	0.40	670	4

CERTIFICATION: David Beckham

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EP
Comments: ATTN: MARK REBAGLIATI

CERTIFICATE OF ANALYSIS A9421063

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
927572	299	229	< 0.01	3	230	48	2	2	11	< 0.01	< 10	< 10	12	< 10	206
927573	299	229	< 0.01	3	270	30	2	4	13	< 0.01	< 10	< 10	20	< 10	102
927574	299	229	< 0.01	3	260	28	2	3	17	< 0.01	< 10	< 10	17	< 10	76
927575	299	229	0.01	2	280	24	2	4	31	0.01	< 10	< 10	27	< 10	74
927576	299	229	0.02	3	130	22	4	2	21	< 0.01	< 10	< 10	12	< 10	36
927577	299	229	0.03	3	220	46	2	3	30	< 0.01	< 10	< 10	22	< 10	54
927578	299	229	0.06	4	150	16	2	2	32	0.01	< 10	< 10	17	< 10	30
927579	299	229	0.04	3	170	16	2	2	40	< 0.01	< 10	< 10	14	< 10	34
927580	299	229	0.02	8	390	152	2	2	18	0.01	< 10	< 10	27	< 10	80
927581	299	229	< 0.01	4	270	28	2	3	15	< 0.01	< 10	< 10	14	< 10	74
927582	299	229	< 0.01	3	260	38	< 2	3	38	< 0.01	< 10	< 10	17	< 10	52

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EQ
Comments: ATTN: MARK REBAGLIATI

Page N. :1
Total Pag :1
Certificate Date: 06-AUG-94
Invoice No. : I9421065
P.O. Number :
Account : IVZ

94-345

CERTIFICATE OF ANALYSIS A9421065

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
917583	214 --	124	< 0.01	0.001	< 0.03
917584	214 --	134	< 0.01	0.001	< 0.03
917585	214 --	123	< 0.01	0.001	< 0.03
917586	214 --	146	< 0.01	0.001	< 0.03
917587	214 --	120	< 0.01	0.001	< 0.03
917588	214 --	137	< 0.01	0.001	< 0.03
917589	214 --	112	0.01	0.001	< 0.03
917590	214 --	136	< 0.01	0.001	< 0.03
917591	214 --	140	< 0.01	0.001	< 0.03

CERTIFICATION: David Chan

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

94-345

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EQ
Comments: ATTN: MARK REBAGLIATI

Page Nu ar :1
Total Pa :1
Certificate Date: 04-AUG-94
Invoice No. : I9421067
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9421067

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc							
927583-84	283	--	0.01	0.01							
927585-86	283	--	< 0.01	< 0.01							
927587-88	283	--	< 0.01	< 0.01							
927589-90	283	--	< 0.01	< 0.01							
927591	283	--	< 0.01	< 0.01							
CHALCOCITE	--	--	0.06	0.06							
DIGENITE	--	--	0.02	0.06							
CHALCOPYRITE	--	--	0.04	0.02							

CERTIFICATION: Said Tanaka

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EQ
Comments: ATTN: MARK REBAGLIATI

Page Nu.. 1
Total Pages i
Certificate Date: 06-AUG-94
Invoice No. : I9421065
P.O. Number :
Account : IVZ

** Corrected Copy

94-345

CERTIFICATE OF ANALYSIS A9421065

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
927583	214 --	124	< 0.01	0.001	< 0.03
927584	214 --	134	< 0.01	0.001	< 0.03
927585	214 --	123	< 0.01	0.001	< 0.03
927586	214 --	146	< 0.01	0.001	< 0.03
927587	214 --	120	< 0.01	0.001	< 0.03
927588	214 --	137	< 0.01	0.001	< 0.03
927589	214 --	112	0.01	0.001	< 0.03
927590	214 --	136	< 0.01	0.001	< 0.03
927591	214 --	140	< 0.01	0.001	< 0.03

CERTIFICATION:

** Corrected sample descriptions

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

T PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-ER
Comments: ATTN: MARK REBAGLIATI

Page ber :1
Total Pag :1
Certificate ate: 10-AUG-94
Invoice No. :I9421181
P.O. Number :
Account :IVZ

94-346

CERTIFICATE OF ANALYSIS A9421181

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
598001-02	283	--	< 0.01	< 0.01								
598003-04	283	--	< 0.01	< 0.01								
598005-06	283	--	< 0.01	< 0.01								
598007-08	283	--	< 0.01	< 0.01								
598009-10	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.05	0.06								
DIGENITE	--	--	0.02	0.06								
CHALCOPYRITE	--	--	0.03	0.02								

CERTIFICATION: Dhothi

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-ER
Comments: ATTN: MARK REBAGLIATI

Page Number :1
Total Pages :1
Certificate Date: 04-AUG-9
Invoice No. : I9421179
P.O. Number :
Account :IVZ

94-346

CERTIFICATE OF ANALYSIS A9421179

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598001	214 --	126	< 0.01	< 0.001	< 0.03
598002	214 --	123	< 0.01	0.001	< 0.03
598003	214 --	140	< 0.01	< 0.001	< 0.03
598004	214 --	118	< 0.01	0.001	< 0.03
598005	214 --	146	< 0.01	0.001	< 0.03
598006	214 --	124	< 0.01	0.002	< 0.03
598007	214 --	118	< 0.01	0.001	< 0.03
598008	214 --	125	< 0.01	0.001	< 0.03
598009	214 --	125	< 0.01	0.001	< 0.03
598010	214 --	117	< 0.01	0.001	< 0.03

CERTIFICATION: Saul Teinat

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-ER
Comments: ATTN: MARK REBAGLIATI

Page Number :1-A
Total Pages :1
Certificate Date: 11-AUG-94
Invoice No. :I9421180
P.O. Number :
Account :IVZ

94-346

CERTIFICATE OF ANALYSIS A9421180

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598001	299	229	< 0.2	1.37	< 2	100	< 0.5	2	0.16	< 0.5	7	148	11	2.07	< 10	< 1	0.74	30	0.62	455	5
598002	299	229	< 0.2	1.13	6	80	< 0.5	2	0.48	< 0.5	7	156	7	2.04	< 10	< 1	0.54	40	0.58	440	8
598003	299	229	< 0.2	1.00	6	70	< 0.5	2	0.35	< 0.5	6	124	8	2.03	< 10	< 1	0.41	40	0.33	425	5
598004	299	229	< 0.2	1.30	< 2	90	< 0.5	2	0.29	< 0.5	7	142	11	2.14	< 10	< 1	0.68	40	0.55	405	7
598005	299	229	< 0.2	1.28	4	90	< 0.5	< 2	0.39	< 0.5	6	127	10	2.20	< 10	< 1	0.61	40	0.54	445	4
598006	299	229	< 0.2	1.44	< 2	100	< 0.5	2	0.50	< 0.5	7	149	14	2.40	< 10	< 1	0.71	30	0.67	520	11
598007	299	229	< 0.2	0.62	< 2	110	< 0.5	< 2	0.41	< 0.5	2	130	17	1.27	< 10	< 1	0.22	30	0.20	210	6
598008	299	229	< 0.2	0.58	4	110	< 0.5	< 2	0.48	< 0.5	2	121	11	1.25	< 10	< 1	0.19	30	0.20	230	8
598009	299	229	< 0.2	1.42	< 2	80	< 0.5	< 2	0.38	< 0.5	6	140	8	2.27	< 10	< 1	0.66	30	0.69	490	5
598010	299	229	< 0.2	1.63	< 2	100	< 0.5	< 2	0.36	< 0.5	7	154	12	2.20	< 10	< 1	0.72	30	0.67	485	9

CERTIFICATION: Ian Bucher

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

T PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-ER
Comments: ATTN: MARK REBAGLIATI

Certificate Date: 11-AUG-94
Invoice No. : I9421180
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9421180

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598001	299	229	0.08	12	390	12	< 2	7	10	0.14	< 10	< 10	30	< 10	46
598002	299	229	0.06	13	380	6	< 2	6	18	0.09	< 10	< 10	27	< 10	42
598003	299	229	0.04	10	350	12	< 2	4	14	0.06	< 10	< 10	21	< 10	42
598004	299	229	0.07	10	350	6	< 2	6	14	0.14	< 10	< 10	31	< 10	48
598005	299	229	0.06	11	380	6	< 2	7	17	0.11	< 10	< 10	30	< 10	48
598006	299	229	0.07	15	360	4	< 2	6	23	0.12	< 10	< 10	30	< 10	48
598007	299	229	0.09	3	140	8	< 2	1	23	0.01	< 10	< 10	6	< 10	16
598008	299	229	0.09	2	150	10	< 2	1	26	< 0.01	< 10	< 10	4	< 10	14
598009	299	229	0.07	11	330	8	< 2	6	20	0.13	< 10	< 10	31	< 10	44
598010	299	229	0.08	11	330	8	< 2	6	15	0.13	< 10	< 10	31	< 10	48

CERTIFICATION: Ian Bradley

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GS
Comments: ATTN: MARK REBAGLIATI

Page Num... 1
Total Pages 1
Certificate Date: 01-AUG-94
Invoice No. :19421184
P.O. Number :
Account :IVZ

94-347

CERTIFICATE OF ANALYSIS A9421184

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
598011-12	283	--	< 0.01	< 0.01								
598013-14	283	--	< 0.01	< 0.01								
598015-16	283	--	< 0.01	< 0.01								
598017-18	283	--	< 0.01	< 0.01								
598019-20	283	--	< 0.01	< 0.01								
598021-22	283	--	< 0.01	< 0.01								
598023-24	283	--	< 0.01	< 0.01								
598025-26	283	--	< 0.01	< 0.01								
598027-28	283	--	< 0.01	< 0.01								
598029	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.06	0.06								
DIGENITE	--	--	0.02	0.06								
CHALCOPYRITE	--	--	0.04	0.01								

CERTIFICATION: David Tetrault

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GS
Comments: ATTN: MARK REBAGLIATI

Page Numb 1
Total Pages .1
Certificate Date: 01-AUG-94
Invoice No. :I9421182
P.O. Number :
Account :IVZ

94-347

CERTIFICATE OF ANALYSIS A9421182

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598011	214 --	135	< 0.01	< 0.001	< 0.03
598012	214 --	123	< 0.01	0.001	< 0.03
598013	214 --	125	< 0.01	0.001	< 0.03
598014	214 --	119	< 0.01	0.001	< 0.03
598015	214 --	156	< 0.01	0.001	< 0.03
598016	214 --	121	< 0.01	0.001	< 0.03
598017	214 --	127	< 0.01	0.001	< 0.03
598018	214 --	120	< 0.01	0.001	< 0.03
598019	214 --	128	< 0.01	0.001	< 0.03
598020	214 --	140	< 0.01	0.001	< 0.03
598021	214 --	108	< 0.01	0.001	< 0.03
598022	214 --	116	< 0.01	0.001	< 0.03
598023	214 --	116	< 0.01	0.001	< 0.03
598024	214 --	126	< 0.01	< 0.001	< 0.03
598025	214 --	136	< 0.01	0.001	< 0.03
598026	214 --	121	< 0.01	< 0.001	< 0.03
598027	214 --	126	< 0.01	0.001	< 0.03
598028	214 --	155	< 0.01	< 0.001	< 0.03
598029	214 --	135	< 0.01	0.001	< 0.03

CERTIFICATION: Sarah Tetreault

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GS
Comments: ATTN: MARK REBAGLIATI

94-347

Page Number :1-A
Total Pages :1
Certificate Date: 01-AUG-94
Invoice No. :I9421183
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9421183

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598011	299	229	< 0.2	0.65	82	140	< 0.5	< 2	0.11	< 0.5	1	85	18	0.78	< 10	< 1	0.18	20	0.06	50	4
598012	299	229	< 0.2	0.90	200	260	< 0.5	< 2	2.05	1.0	13	69	22	3.48	< 10	< 1	0.12	20	0.46	840	6
598013	299	229	< 0.2	0.85	76	60	< 0.5	< 2	1.04	1.0	4	86	11	1.80	10	< 1	0.29	20	0.45	495	4
598014	299	229	< 0.2	1.08	8	120	< 0.5	< 2	0.23	< 0.5	6	101	19	1.65	10	< 1	0.65	30	0.45	265	6
598015	299	229	< 0.2	1.06	< 2	90	< 0.5	< 2	0.29	< 0.5	6	110	8	1.69	10	< 1	0.65	30	0.51	260	4
598016	299	229	< 0.2	1.01	4	80	< 0.5	< 2	0.43	< 0.5	5	119	8	1.59	10	< 1	0.60	30	0.51	250	8
598017	299	229	< 0.2	0.98	34	80	< 0.5	< 2	0.35	< 0.5	6	125	12	1.67	10	< 1	0.54	30	0.48	245	4
598018	299	229	< 0.2	0.96	6	70	< 0.5	< 2	0.18	< 0.5	6	127	8	1.62	10	< 1	0.66	30	0.50	205	7
598019	299	229	< 0.2	0.92	< 2	70	< 0.5	< 2	0.36	< 0.5	5	116	8	1.68	10	< 1	0.56	40	0.52	265	4
598020	299	229	< 0.2	0.88	6	60	< 0.5	< 2	0.57	< 0.5	5	108	9	1.66	10	< 1	0.42	30	0.52	265	6
598021	299	229	< 0.2	1.23	4	90	< 0.5	< 2	0.55	< 0.5	5	131	14	1.72	10	< 1	0.57	30	0.57	245	8
598022	299	229	< 0.2	1.06	50	70	< 0.5	< 2	0.44	< 0.5	6	125	21	1.76	10	< 1	0.59	40	0.53	245	4
598023	299	229	< 0.2	1.08	2	80	< 0.5	< 2	0.36	< 0.5	6	128	13	1.78	10	< 1	0.65	40	0.58	235	7
598024	299	229	< 0.2	1.22	18	80	< 0.5	< 2	0.37	< 0.5	6	131	12	1.86	10	< 1	0.81	40	0.64	255	4
598025	299	229	< 0.2	1.18	6	70	< 0.5	< 2	0.43	< 0.5	6	145	7	1.83	10	< 1	0.76	40	0.63	270	8
598026	299	229	< 0.2	1.14	< 2	70	< 0.5	< 2	0.54	< 0.5	6	143	6	1.81	10	< 1	0.63	40	0.60	265	5
598027	299	229	< 0.2	1.10	6	60	< 0.5	< 2	0.60	< 0.5	6	140	5	1.73	10	< 1	0.61	40	0.55	280	7
598028	299	229	< 0.2	1.07	4	60	< 0.5	< 2	0.70	< 0.5	6	128	14	1.79	10	< 1	0.54	40	0.59	280	4
598029	299	229	< 0.2	1.10	2	70	< 0.5	< 2	0.55	< 0.5	6	151	5	1.80	10	< 1	0.69	40	0.59	240	9

CERTIFICATION: Ian H Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

94-347

Project : CASINO-GS
Comments: ATTN: MARK REBAGLIATI

Page Number -B
Total Pages
Certificate Date: 01-AUG-94
Invoice No. : I9421183
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9421183

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598011	299	229	0.01	5	340	96	2	3	14	< 0.01	< 10	< 10	9	< 10	46
598012	299	229	0.01	7	700	54	4	13	56	< 0.01	< 10	< 10	71	< 10	220
598013	299	229	0.03	9	290	160	2	4	52	0.02	< 10	< 10	15	< 10	168
598014	299	229	0.08	8	420	10	< 2	6	16	0.10	< 10	< 10	21	< 10	68
598015	299	229	0.08	7	430	4	< 2	6	18	0.10	< 10	< 10	22	< 10	36
598016	299	229	0.08	8	410	6	< 2	5	21	0.09	< 10	< 10	21	< 10	32
598017	299	229	0.07	9	450	6	< 2	5	21	0.08	< 10	< 10	21	< 10	28
598018	299	229	0.07	9	460	6	< 2	5	12	0.10	< 10	< 10	22	< 10	26
598019	299	229	0.07	8	430	10	< 2	4	19	0.08	< 10	< 10	20	< 10	34
598020	299	229	0.06	9	430	6	< 2	4	24	0.05	< 10	< 10	18	< 10	30
598021	299	229	0.09	9	430	6	< 2	5	33	0.07	< 10	< 10	21	< 10	30
598022	299	229	0.08	9	450	6	< 2	5	26	0.08	< 10	< 10	21	< 10	32
598023	299	229	0.08	9	450	6	< 2	5	18	0.10	< 10	< 10	23	< 10	36
598024	299	229	0.09	9	470	4	< 2	6	19	0.13	< 10	< 10	25	< 10	34
598025	299	229	0.08	9	450	12	< 2	6	19	0.12	< 10	< 10	25	< 10	32
598026	299	229	0.08	9	450	6	< 2	5	24	0.09	< 10	< 10	22	< 10	30
598027	299	229	0.08	9	440	6	< 2	4	25	0.08	< 10	< 10	22	< 10	36
598028	299	229	0.07	9	460	10	< 2	4	27	0.06	< 10	< 10	21	< 10	34
598029	299	229	0.08	9	460	8	< 2	6	22	0.10	< 10	< 10	24	< 10	32

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-ET
Comments: ATTN: MARK REBAGLIATI

Page Number
Total Pages
Certificate Date: 01-AUG-94
Invoice No. : I9421178
P.O. Number :
Account : IVZ

94348

CERTIFICATE OF ANALYSIS A9421178

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc
598030-31	283	--	< 0.01	< 0.01
598032-33	283	--	< 0.01	< 0.01
598034-35	283	--	< 0.01	< 0.01
598036-37	283	--	< 0.01	< 0.01
598038-39	283	--	< 0.01	< 0.01
598040	283	--	< 0.01	< 0.01
CHALCOCITE	--	--	0.05	0.06
DIGENITE	--	--	0.02	0.06
CHALCOPYRITE	--	--	0.04	0.02

CERTIFICATION: Said Teinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-ET
Comments: ATTN: MARK REBAGLIATI

Page Numb 1
Total Pages 1
Certificate Date: 01-AUG-94
Invoice No. : I9421176
P.O. Number :
Account : IVZ

94-348

CERTIFICATE OF ANALYSIS A9421176

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598030	214 --	138	< 0.01	< 0.001	< 0.03
598031	214 --	129	< 0.01	< 0.001	< 0.03
598032	214 --	128	< 0.01	< 0.001	< 0.03
598033	214 --	113	< 0.01	< 0.001	< 0.03
598034	214 --	116	< 0.01	< 0.001	< 0.03
598035	214 --	137	< 0.01	< 0.001	< 0.03
598036	214 --	155	< 0.01	< 0.001	< 0.03
598037	214 --	121	< 0.01	< 0.001	< 0.03
598038	214 --	124	< 0.01	< 0.001	< 0.03
598039	214 --	119	< 0.01	< 0.001	< 0.03
598040	214 --	128	< 0.01	< 0.001	< 0.03

CERTIFICATION: Sarah Fenwick

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

94-348

Project : CASINO-ET
Comments: ATTN: MARK REBAGLIATI

Page Nr :1-A
Total Pa :1
Certificate Date: 29-JUL-9
Invoice No. :I9421177
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9421177

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598030	299	229	< 0.2	1.33	< 2	130	< 0.5	< 2	0.48	< 0.5	3	114	10	1.32	< 10	< 1	0.34	10	0.43	235	4
598031	299	229	< 0.2	1.29	< 2	130	< 0.5	< 2	0.54	< 0.5	3	95	5	1.46	< 10	< 1	0.32	20	0.45	250	7
598032	299	229	< 0.2	1.52	< 2	160	< 0.5	< 2	0.66	< 0.5	3	111	4	1.61	< 10	< 1	0.35	10	0.49	280	4
598033	299	229	< 0.2	1.55	< 2	160	< 0.5	< 2	0.71	< 0.5	4	118	4	1.58	< 10	< 1	0.38	10	0.49	270	8
598034	299	229	< 0.2	1.60	< 2	140	< 0.5	< 2	0.73	< 0.5	4	118	6	1.66	< 10	< 1	0.41	20	0.54	290	5
598035	299	229	< 0.2	1.52	< 2	130	< 0.5	< 2	0.67	< 0.5	4	118	4	1.76	< 10	< 1	0.34	20	0.59	345	7
598036	299	229	< 0.2	1.40	2	130	< 0.5	< 2	0.40	< 0.5	6	110	14	1.89	< 10	< 1	0.34	10	0.61	310	5
598037	299	229	< 0.2	1.62	4	140	< 0.5	< 2	0.59	< 0.5	4	122	6	1.94	< 10	< 1	0.45	20	0.66	355	8
598038	299	229	< 0.2	1.55	< 2	130	< 0.5	< 2	0.64	< 0.5	4	130	15	1.89	< 10	< 1	0.46	20	0.66	345	5
598039	299	229	< 0.2	1.16	2	90	< 0.5	< 2	0.43	< 0.5	3	131	10	1.50	< 10	< 1	0.32	20	0.46	240	9
598040	299	229	< 0.2	1.09	2	100	< 0.5	< 2	0.40	< 0.5	2	121	10	1.42	< 10	< 1	0.32	20	0.43	265	8

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

94 - 348

Project : CASINO-ET
Comments: ATTN: MARK REBAGLIATI

Page Number :1-B
Total P. :1
Certificate Date: 29-JUL-9
Invoice No. :1942117
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9421177

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598030	299	229	0.16	3	140	16	< 2	4	28	0.09	< 10	< 10	32	< 10	20
598031	299	229	0.16	2	150	8	2	4	27	0.11	< 10	< 10	38	< 10	20
598032	299	229	0.17	3	190	8	< 2	4	32	0.12	< 10	< 10	42	< 10	22
598033	299	229	0.18	3	170	10	< 2	3	32	0.12	< 10	< 10	42	< 10	22
598034	299	229	0.19	2	190	4	< 2	3	35	0.12	< 10	< 10	45	< 10	26
598035	299	229	0.17	3	190	2	< 2	4	31	0.12	< 10	< 10	46	< 10	32
598036	299	229	0.11	3	210	12	2	4	21	0.07	< 10	< 10	45	< 10	38
598037	299	229	0.16	3	210	12	2	6	28	0.10	< 10	< 10	48	< 10	36
598038	299	229	0.16	3	190	12	2	6	27	0.10	< 10	< 10	46	< 10	34
598039	299	229	0.13	3	160	12	< 2	4	21	0.10	< 10	< 10	34	< 10	28
598040	299	229	0.13	3	140	12	2	4	20	0.09	< 10	< 10	30	< 10	24

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EU
Comments: ATTN: MARK REBAGLIATI

Page Number : 1-A
Total Pages : 1
Certificate Date: 25-AUG-94
Invoice No. : I9422827
P.O. Number :
Account : IVZ

94-349

CERTIFICATE OF ANALYSIS A9422827

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598041	299	229	< 0.2	2.15	12	420	0.5	2	1.40	< 0.5	12	148	19	3.23	10	1	0.89	20	0.98	800	28
598042	299	229	< 0.2	1.58	10	320	< 0.5	< 2	1.59	< 0.5	10	183	40	2.72	< 10	1	0.81	20	0.96	600	27
598043	299	229	< 0.2	1.68	12	220	0.5	< 2	1.98	< 0.5	10	165	17	2.71	< 10	< 1	0.78	20	1.00	655	10
598044	299	229	< 0.2	1.22	8	120	< 0.5	2	1.25	< 0.5	6	179	11	1.90	< 10	< 1	0.59	20	0.66	455	9
598045	299	229	< 0.2	1.51	< 2	120	< 0.5	2	1.17	< 0.5	6	188	12	1.80	< 10	< 1	0.59	20	0.64	415	56
598046	299	229	< 0.2	1.77	8	130	< 0.5	2	1.34	< 0.5	8	167	12	2.27	< 10	< 1	0.67	20	0.86	500	47
598047	299	229	< 0.2	1.85	4	170	< 0.5	2	1.13	< 0.5	8	160	13	2.33	< 10	< 1	0.78	30	0.88	470	16
598048	299	229	< 0.2	1.79	6	150	< 0.5	2	1.12	< 0.5	9	164	29	2.40	< 10	< 1	0.64	30	0.95	475	237

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EU
Comments: ATTN: MARK REBAGLIATI

Page Number :1-B
Total Pages :1
Certificate Date: 25-AUG-94
Invoice No. :I9422827
P.O. Number :
Account :IVZ

94-349

CERTIFICATE OF ANALYSIS A9422827

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598041	299	229	0.04	7	360	2	2	15	52	0.10	< 10	< 10	79	< 10	60
598042	299	229	0.09	7	300	2	< 2	12	54	0.12	< 10	< 10	66	< 10	48
598043	299	229	0.08	6	310	2	< 2	12	59	0.11	< 10	< 10	64	10	46
598044	299	229	0.09	5	190	4	< 2	7	40	0.08	< 10	< 10	39	< 10	36
598045	299	229	0.18	5	190	< 2	< 2	6	45	0.09	< 10	< 10	41	< 10	34
598046	299	229	0.16	7	260	< 2	< 2	9	49	0.10	< 10	< 10	55	< 10	44
598047	299	229	0.20	6	280	< 2	< 2	8	42	0.14	< 10	< 10	62	< 10	44
598048	299	229	0.18	6	290	4	< 2	8	41	0.15	< 10	< 10	65	< 10	42

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EU
Comments: ATTN: MARK REBAGLIATI

Page Number :1
Total Pages :1
Certificate Date: 20-AUG-9
Invoice No. : I9422828
P.O. Number :
Account :IVZ

64-349

CERTIFICATE OF ANALYSIS A9422828

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc
598041-42	283	--	< 0.01	< 0.01
598043-44	283	--	< 0.01	< 0.01
598045-46	283	--	< 0.01	< 0.01
598047-48	283	--	< 0.01	< 0.01
CHALCOCITE	--	--	0.06	0.06
DIGENITE	--	--	0.02	0.06
CHALCOPYRITE	--	--	0.04	0.02

CERTIFICATION: Christi

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EU
Comments: ATTN: MARK REBAGLIATI

Page Number :1
Total P... :1
Certificate Date: 20-AUG-9
Invoice No. :19422826
P.O. Number :
Account :IVZ

94-349

CERTIFICATE OF ANALYSIS A9422826

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598041	214 --	141	< 0.01	0.004	< 0.03
598042	214 --	141	< 0.01	0.004	< 0.03
598043	214 --	125	< 0.01	0.001	< 0.03
598044	214 --	131	< 0.01	0.001	< 0.03
598045	214 --	115	< 0.01	0.008	< 0.03
598046	214 --	139	< 0.01	0.007	< 0.03
598047	214 --	141	< 0.01	0.002	< 0.03
598048	214 --	134	< 0.01	0.041	< 0.03

CERTIFICATION: Othrshi

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EV
Comments: ATTN: MARK REBAGLIATI

Page Number :1-A
Total Pages :1
Certificate Date: 25-AUG-94
Invoice No. :I9422821
P.O. Number :
Account :IVZ

94-350

CERTIFICATE OF ANALYSIS A9422821

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598049	299	229	< 0.2	2.52	10	380	0.5	< 2	0.66	< 0.5	14	142	134	3.02	< 10	1	0.66	20	1.08	425	8
598050	299	229	< 0.2	2.27	6	330	< 0.5	< 2	0.65	< 0.5	15	127	52	3.03	< 10	< 1	0.63	10	1.11	360	6
598051	299	229	< 0.2	2.04	2	340	< 0.5	2	0.57	< 0.5	16	104	12	3.59	< 10	< 1	0.69	10	1.03	320	8
598052	299	229	< 0.2	1.97	6	410	< 0.5	< 2	0.75	< 0.5	13	127	19	2.83	< 10	< 1	0.80	10	1.14	320	7
598053	299	229	< 0.2	2.18	4	360	< 0.5	< 2	0.70	< 0.5	15	147	27	3.22	< 10	< 1	0.62	10	1.55	380	8
598054	299	229	< 0.2	2.05	6	420	< 0.5	< 2	1.11	< 0.5	14	170	36	2.86	< 10	< 1	0.85	10	1.36	395	12
598055	299	229	< 0.2	2.17	14	350	< 0.5	< 2	1.39	< 0.5	16	131	9	3.81	10	1	0.54	20	1.77	550	4
598056	299	229	< 0.2	1.77	2	210	< 0.5	< 2	1.64	< 0.5	13	111	8	2.79	< 10	< 1	0.41	10	1.44	505	2
598057	299	229	< 0.2	1.83	2	290	< 0.5	< 2	1.89	< 0.5	13	112	16	2.72	< 10	< 1	0.55	10	1.41	495	3
598058	299	229	< 0.2	2.06	2	410	< 0.5	< 2	1.65	< 0.5	13	133	17	2.93	< 10	1	0.76	10	1.58	440	4
598059	299	229	< 0.2	2.23	10	360	< 0.5	< 2	1.51	< 0.5	14	150	28	3.01	< 10	< 1	0.78	20	1.70	455	8
598060	299	229	< 0.2	2.44	2	300	< 0.5	< 2	1.86	< 0.5	15	136	7	3.53	10	< 1	0.58	10	2.43	580	3
598061	299	229	< 0.2	1.43	2	210	< 0.5	< 2	1.44	< 0.5	10	139	4	2.08	< 10	< 1	0.47	10	1.09	390	8
598062	299	229	< 0.2	1.59	2	200	< 0.5	< 2	2.28	< 0.5	12	107	10	2.61	< 10	1	0.48	10	1.38	510	5
598063	299	229	< 0.2	1.89	< 2	290	< 0.5	< 2	1.68	< 0.5	13	116	7	2.71	< 10	< 1	0.62	10	1.46	445	3
598064	299	229	< 0.2	1.84	8	100	0.5	< 2	3.29	< 0.5	14	97	1	3.12	10	< 1	0.24	10	1.51	650	3
598065	299	229	< 0.2	1.54	8	80	0.5	< 2	3.61	< 0.5	14	74	2	3.09	10	< 1	0.18	10	1.15	700	1
598066	299	229	< 0.2	1.56	10	80	1.0	< 2	1.73	< 0.5	7	98	3	2.28	10	1	0.26	20	0.81	550	6
598067	299	229	< 0.2	1.39	6	100	0.5	< 2	2.02	< 0.5	5	129	3	1.69	10	< 1	0.26	20	0.57	710	4
598068	299	229	< 0.2	1.30	14	190	0.5	< 2	1.68	< 0.5	6	119	3	1.79	< 10	1	0.41	20	0.61	560	8
598069	299	229	< 0.2	2.70	10	260	1.0	< 2	1.29	< 0.5	7	233	21	2.44	10	< 1	0.53	30	0.68	540	9

CERTIFICATION: Ian Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EV
Comments: ATTN: MARK REBAGLIATI

Page ber :1-B
Total Pa :1
Certificate Date: 25-AUG-9
Invoice No. :19422821
P.O. Number :
Account :IVZ

94-350

CERTIFICATE OF ANALYSIS A9422821

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598049	299	229	0.10	21	540	4	2	9	40	0.21	< 10	< 10	80	10	86
598050	299	229	0.11	19	510	4	< 2	9	42	0.18	< 10	< 10	87	10	66
598051	299	229	0.10	19	510	4	< 2	16	37	0.16	< 10	< 10	107	< 10	52
598052	299	229	0.16	17	440	12	< 2	9	39	0.17	< 10	< 10	92	< 10	40
598053	299	229	0.15	20	440	< 2	< 2	10	36	0.12	< 10	< 10	99	10	48
598054	299	229	0.20	17	480	2	< 2	8	46	0.18	< 10	< 10	97	10	40
598055	299	229	0.13	18	550	2	2	18	58	0.10	< 10	< 10	116	10	58
598056	299	229	0.18	16	450	4	< 2	12	56	0.08	< 10	< 10	89	10	42
598057	299	229	0.16	15	450	< 2	2	11	60	0.12	< 10	< 10	87	10	40
598058	299	229	0.19	17	450	2	< 2	10	58	0.17	< 10	< 10	95	10	42
598059	299	229	0.17	17	430	6	2	11	57	0.17	< 10	< 10	102	10	44
598060	299	229	0.12	20	440	6	< 2	17	61	0.13	< 10	< 10	114	10	56
598061	299	229	0.14	11	330	4	< 2	7	46	0.10	< 10	< 10	64	< 10	30
598062	299	229	0.13	14	380	4	< 2	10	58	0.10	< 10	< 10	81	10	38
598063	299	229	0.17	16	450	2	< 2	9	47	0.15	< 10	< 10	87	10	40
598064	299	229	0.07	15	420	6	4	17	91	0.03	< 10	< 10	89	10	48
598065	299	229	0.08	13	630	8	4	14	111	0.04	< 10	< 10	79	10	50
598066	299	229	0.01	4	660	34	8	6	44	0.01	< 10	< 10	29	< 10	50
598067	299	229	0.01	3	570	14	12	6	66	0.01	< 10	< 10	29	< 10	56
598068	299	229	0.03	5	580	12	4	6	76	0.05	< 10	< 10	33	< 10	66
598069	299	229	0.03	9	670	14	4	7	78	0.07	< 10	< 10	42	< 10	54

CERTIFICATION: Stewart Bichlmaier

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EV
Comments: ATTN: MARK REBAGLIATI

Page ber :1
Total P :1
Certifica. Date: 20-AUG-9
Invoice No. :19422822
P.O. Number :
Account :IVZ

94-350

CERTIFICATE OF ANALYSIS A9422822

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
598049-50	283	--	< 0.01	< 0.01								
598051-52	283	--	< 0.01	< 0.01								
598053-54	283	--	< 0.01	< 0.01								
598055-56	283	--	< 0.01	< 0.01								
598057-58	283	--	< 0.01	< 0.01								
598059-60	283	--	< 0.01	< 0.01								
598061-62	283	--	< 0.01	< 0.01								
598063-64	283	--	< 0.01	< 0.01								
598065-66	283	--	< 0.01	< 0.01								
598067-68	283	--	< 0.01	< 0.01								
598069	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.06	0.06								
DIGENITE	--	--	0.01	0.06								
CHALCOPYRITE	--	--	0.04	0.02								

CERTIFICATION: Chrichi

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EV
Comments: ATTN: MARK REBAGLIATI

Page er : 1
Total Pa : 1
Certificate Date: 20-AUG-9
Invoice No. : I9422820
P.O. Number :
Account : IVZ

94-350

CERTIFICATE OF ANALYSIS A9422820

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598049	214 --	129	0.01	0.001	< 0.03
598050	214 --	131	0.01	0.001	< 0.03
598051	214 --	153	< 0.01	0.002	< 0.03
598052	214 --	137	< 0.01	0.001	< 0.03
598053	214 --	118	< 0.01	0.001	< 0.03
598054	214 --	149	< 0.01	0.002	< 0.03
598055	214 --	130	< 0.01	0.001	< 0.03
598056	214 --	132	< 0.01	< 0.001	< 0.03
598057	214 --	132	< 0.01	0.001	< 0.03
598058	214 --	136	< 0.01	0.001	< 0.03
598059	214 --	113	< 0.01	0.001	< 0.03
598060	214 --	132	< 0.01	< 0.001	< 0.03
598061	214 --	132	< 0.01	0.001	< 0.03
598062	214 --	120	< 0.01	0.001	< 0.03
598063	214 --	128	< 0.01	0.001	< 0.03
598064	214 --	126	< 0.01	< 0.001	< 0.03
598065	214 --	120	< 0.01	< 0.001	< 0.03
598066	214 --	142	< 0.01	0.001	< 0.03
598067	214 --	134	< 0.01	0.001	< 0.03
598068	214 --	151	< 0.01	0.001	< 0.03
598069	214 --	133	< 0.01	0.002	< 0.03

CERTIFICATION: Rhustei

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EW
Comments: ATTN: MARK REBAGLIATI

Page : 1-A
Total Pages : 1
Certificate Date: 25-AUG-94
Invoice No. : I9422833
P.O. Number :
Account : IVZ

94-351

CERTIFICATE OF ANALYSIS A9422833

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598070	299	229	< 0.2	2.01	6	110	< 0.5	2	2.08	< 0.5	9	131	12	2.97	< 10	< 1	0.73	20	0.87	755	8
598071	299	229	< 0.2	1.89	10	120	< 0.5	2	1.34	< 0.5	9	132	13	2.78	< 10	< 1	0.91	30	0.99	605	5
598072	299	229	< 0.2	2.18	10	120	< 0.5	2	0.75	< 0.5	9	116	10	2.74	< 10	< 1	0.88	20	1.18	510	7
598073	299	229	< 0.2	2.35	4	160	< 0.5	< 2	1.09	< 0.5	9	131	10	2.78	< 10	< 1	0.92	20	1.13	525	4
598074	299	229	< 0.2	2.25	4	110	< 0.5	< 2	1.23	< 0.5	9	139	10	2.71	< 10	< 1	0.65	20	1.09	510	5
598075	299	229	< 0.2	2.28	12	140	< 0.5	< 2	1.40	< 0.5	9	137	6	2.55	< 10	< 1	0.78	20	0.85	485	8

CERTIFICATION: David Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EW
Comments: ATTN: MARK REBAGLIATI

Page Number : 1-B
Total Pages : 1
Certificate Date: 25-AUG-94
Invoice No. : I9422833
P.O. Number :
Account : IVZ

94-351

CERTIFICATE OF ANALYSIS A9422833

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598070	299	229	0.14	4	330	2	< 2	12	46	0.14	< 10	< 10	73	10	46
598071	299	229	0.14	4	330	< 2	< 2	12	33	0.15	< 10	< 10	72	< 10	48
598072	299	229	0.12	5	330	4	< 2	12	28	0.13	< 10	< 10	73	< 10	48
598073	299	229	0.16	4	330	< 2	< 2	12	37	0.15	< 10	< 10	76	< 10	50
598074	299	229	0.16	3	320	< 2	2	11	38	0.11	< 10	< 10	71	< 10	62
598075	299	229	0.24	5	330	2	2	10	48	0.14	< 10	< 10	70	< 10	44

CERTIFICATION: Jan Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EW
Comments: ATTN: MARK REBAGLIATI

Page Number :1
Total Pages :1
Certificate Date: 20-AUG-9
Invoice No. : 19422834
P.O. Number :
Account : IVZ

94-351

CERTIFICATE OF ANALYSIS A9422834

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc
598070-71	283	--	< 0.01	< 0.01
598072-73	283	--	< 0.01	< 0.01
598074-75	283	--	< 0.01	< 0.01
CHALCOCITE	--	--	0.06	0.06
DIGENITE	--	--	0.02	0.06
CHALCOPYRITE	--	--	0.04	0.02

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EW
Comments: ATTN: MARK REBAGLIATI

Page Number :1
Total Pages :1
Certificate Date: 20-AUG-9
Invoice No. : I9422832
P.O. Number :
Account :IVZ

CORRECTED COPY

94-351

CERTIFICATE OF ANALYSIS A9422832

SAMPLE	PREP CODE		Weight grams	Cu %	MoS2 %	Au g/t						
598070	214	--	134	< 0.01	0.001	< 0.03						
598071	214	--	131	< 0.01	0.001	< 0.03						
598072	214	--	125	< 0.01	0.001	< 0.03						
598073	214	--	155	< 0.01	0.001	< 0.03						
598074	214	--	115	< 0.01	0.001	< 0.03						
598075	214	--	128	< 0.01	0.001	< 0.03						

CERTIFICATION:

FOR MoS2 SAMPLE DESCRIPTION 598075

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EX
Comments: ATTN: MARK REBAGLIATI

Page ber : 1
Total Pa : 1
Certificat ate: 20-AUG-94
Invoice No. : I9422831
P.O. Number :
Account : IVZ

94-352

CERTIFICATE OF ANALYSIS A9422831

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
598076-77	283	--	< 0.01	< 0.01								
598078-79	283	--	< 0.01	< 0.01								
598080-81	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.06	0.06								
DIGENITE	--	--	0.02	0.06								
CHALCOPYRITE	--	--	0.04	0.02								

CERTIFICATION: Rhicci

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EX
Comments: ATTN: MARK REBAGLIATI

Page er :1
Total Pa :1
Certificate Date: 20-AUG-9
Invoice No. :19422829
P.O. Number :
Account :IVZ

94-352

CERTIFICATE OF ANALYSIS A9422829

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598076	214 --	140	< 0.01	0.001	< 0.03
598077	214 --	138	< 0.01	0.001	< 0.03
598078	214 --	118	< 0.01	0.001	< 0.03
598079	214 --	107	< 0.01	0.001	< 0.03
598080	214 --	125	< 0.01	0.001	< 0.03
598081	214 --	116	< 0.01	0.001	< 0.03

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EX
Comments: ATTN: MARK REBAGLIATI

Certificate Date: 30-AUG-94
Invoice No. : I9422830
P.O. Number :
Account : IVZ

94-352

CERTIFICATE OF ANALYSIS A9422830

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598076	299	229	< 0.2	1.06	< 2	280	< 0.5	< 2	0.25	0.5	5	168	9	1.83	< 10	< 1	0.33	10	0.40	475	7
598077	299	229	< 0.2	1.07	2	230	< 0.5	< 2	0.61	< 0.5	4	138	7	1.72	< 10	< 1	0.25	20	0.34	435	8
598078	299	229	< 0.2	0.72	< 2	240	< 0.5	< 2	1.74	< 0.5	4	139	6	1.76	< 10	< 1	0.26	20	0.49	695	6
598079	299	229	< 0.2	0.59	< 2	530	< 0.5	< 2	2.04	< 0.5	4	142	8	1.76	< 10	< 1	0.27	20	0.47	710	9
598080	299	229	0.2	0.62	< 2	1260	< 0.5	< 2	2.93	< 0.5	4	136	14	1.62	< 10	< 1	0.31	20	0.93	885	8
598081	299	229	0.2	0.76	2	620	< 0.5	< 2	2.64	< 0.5	4	169	43	1.92	< 10	< 1	0.32	20	0.69	815	6

CERTIFICATION: Jhai D'Mia

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EX
Comments: ATTN: MARK REBAGLIATI

Page Numb. 1-B
Total Pages .1
Certificate Date: 30-AUG-94
Invoice No. : I9422830
P.O. Number :
Account : IVZ

94352

CERTIFICATE OF ANALYSIS A9422830

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598076	299	229	0.08	5	300	14	< 2	4	17	0.04	< 10	< 10	38	< 10	52
598077	299	229	0.04	3	300	12	2	4	19	0.02	< 10	< 10	30	< 10	44
598078	299	229	0.02	5	300	40	2	3	42	< 0.01	< 10	< 10	18	< 10	50
598079	299	229	0.02	5	310	34	2	3	50	< 0.01	< 10	< 10	17	< 10	52
598080	299	229	0.01	3	280	12	2	3	56	< 0.01	< 10	< 10	11	< 10	58
598081	299	229	0.02	4	310	18	4	4	69	< 0.01	< 10	< 10	16	< 10	58

CERTIFICATION: Jhai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EY
Comments: ATTN: MARK REBAGLIATI

Page Number : 1-A
Total Pages : 1
Certificate Date: 01-SEP-9
Invoice No. : I942339
P.O. Number :
Account : IVZ

94-353

CERTIFICATE OF ANALYSIS A9423394

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598082	299	229	< 0.2	1.61	< 2	900	0.5	< 2	3.70	< 0.5	9	63	19	2.89	< 10	< 1	0.43	30	0.55	1310	2
598083	299	229	0.2	1.84	< 2	1110	0.5	< 2	2.80	< 0.5	10	81	30	3.23	< 10	< 1	0.35	20	0.73	770	6
598084	299	229	< 0.2	1.02	6	230	0.5	< 2	2.77	< 0.5	8	190	15	2.55	< 10	< 1	0.36	10	0.76	685	11
598085	299	229	< 0.2	1.90	4	1080	< 0.5	< 2	1.11	< 0.5	9	213	11	3.15	< 10	1	0.56	10	0.98	660	11
598086	299	229	< 0.2	1.69	< 2	680	< 0.5	< 2	0.97	< 0.5	9	200	8	3.00	< 10	< 1	0.72	20	1.01	600	6

CERTIFICATION: Jonathan D. Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EY
Comments: ATTN: MARK REBAGLIATI

Pa... mber :1-B
Tota... s :1
Certifi... Date: 01-SEP-
Invoice No. :I942339
P.O. Number :
Account :IVZ

94-353

CERTIFICATE OF ANALYSIS A9423394

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598082	299	229	< 0.01	10	940	30	6	4	353	< 0.01	< 10	10	29	< 10	222
598083	299	229	0.03	9	770	124	4	4	187	< 0.01	< 10	< 10	32	< 10	204
598084	299	229	0.01	7	460	284	4	4	137	< 0.01	< 10	10	23	< 10	582
598085	299	229	0.10	7	460	6	2	8	67	0.10	< 10	10	79	< 10	96
598086	299	229	0.14	6	470	10	< 2	7	44	0.16	< 10	10	86	< 10	62

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EY
Comments: ATTN: MARK REBAGLIATI

Page ber :1
Total P :1
Certificate Date: 26-AUG-94
Invoice No. : I9423393
P.O. Number :
Account : IVZ

94-353

CERTIFICATE OF ANALYSIS A9423393

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598082	214 --	123	< 0.01	0.001	< 0.03
598083	214 --	127	< 0.01	0.001	< 0.03
598084	214 --	107	< 0.01	0.002	< 0.03
598085	214 --	106	< 0.01	0.002	< 0.03
598086	214 --	136	< 0.01	0.001	< 0.03

CERTIFICATION: D Grattan

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EY
Comments: ATTN: MARK REBAGLIATI

94-353

CERTIFICATE OF ANALYSIS A9423395

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
598082-83	283	--	< 0.01	< 0.01								
598084-85	283	--	< 0.01	< 0.01								
598086	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.05	0.06								
DIGENITE	--	--	0.01	0.06								
CHALCOPYRITE	--	--	0.04	0.02								

CERTIFICATION: Antonio

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EZ
Comments: ATTN: MARK REBAGLIATI

Page Number :1-A
Total Pages :1
Certificate Date: 25-AUG-94
Invoice No. :I9422836
P.O. Number :
Account :IVZ

94-354

CERTIFICATE OF ANALYSIS A9422836

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598087	299	229	0.8	0.60	2	40	< 0.5	< 2	0.09	< 0.5	< 1	165	9	0.51	< 10	< 1	0.21	10	0.04	85	12
598088	299	229	0.4	0.39	2	80	< 0.5	< 2	0.06	< 0.5	< 1	178	8	0.52	< 10	< 1	0.21	< 10	0.02	195	13
598089	299	229	0.4	0.45	2	30	< 0.5	< 2	0.06	< 0.5	< 1	189	7	0.41	< 10	< 1	0.22	< 10	0.02	65	14
598090	299	229	0.2	0.47	2	30	< 0.5	< 2	0.04	< 0.5	< 1	178	6	0.33	< 10	< 1	0.26	< 10	0.02	65	8
598091	299	229	0.2	0.64	< 2	140	0.5	< 2	0.42	< 0.5	3	162	3	1.24	< 10	< 1	0.35	20	0.06	435	7

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EZ
Comments: ATTN: MARK REBAGLIATI

Page Number : 1-B
Total Pages : 1
Certificate Date: 25-AUG-94
Invoice No. : 19422836
P.O. Number :
Account : IVZ

94-3554

CERTIFICATE OF ANALYSIS A9422836

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598087	299	229	0.03	3	30	128	< 2	< 1	7	< 0.01	< 10	< 10	2	< 10	40
598088	299	229	0.07	4	20	60	< 2	< 1	4	< 0.01	< 10	< 10	1	< 10	30
598089	299	229	0.05	4	20	56	< 2	< 1	5	< 0.01	< 10	< 10	1	< 10	34
598090	299	229	0.04	3	20	60	< 2	< 1	6	< 0.01	< 10	< 10	1	< 10	32
598091	299	229	0.03	4	230	28	2	2	9	< 0.01	< 10	< 10	10	< 10	48

CERTIFICATION: Jan Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EZ
Comments: ATTN: MARK REBAGLIATI

Page ber : 1
Total Pa : 1
Certifica ate: 20-AUG-94
Invoice No. : 19422837
P.O. Number :
Account : IVZ

94-354

CERTIFICATE OF ANALYSIS A9422837

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc
598087-88	283	--	< 0.01	< 0.01
598089-90	283	--	< 0.01	< 0.01
598091	283	--	< 0.01	< 0.01
CHALCOCITE	--	--	0.06	0.06
DIGENITE	--	--	0.02	0.06
CHALCOPYRITE	--	--	0.04	0.02

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-EZ
Comments: ATTN: MARK REBAGLIATI

Certificate Date: 20-AUG-9
Invoice No. : I9422835
P.O. Number :
Account : IVZ

94-354

CERTIFICATE OF ANALYSIS A9422835

SAMPLE	PREP CODE		Weight grams	Cu %	MoS2 %	Au g/t
598087	214	--	111	< 0.01	0.002	< 0.03
598088	214	--	101	< 0.01	0.002	< 0.03
598089	214	--	94	< 0.01	0.002	< 0.03
598090	214	--	125	< 0.01	0.001	< 0.03
598091	214	--	138	< 0.01	0.001	< 0.03

CERTIFICATION: Marchi

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GA
Comments: ATTN: MARK REBAGLIATI

Certificate Date: 25-AUG-9
Invoice No. : I9422824
P.O. Number :
Account :IVZ

94-355

CERTIFICATE OF ANALYSIS A9422824

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598092	299	229	< 0.2	1.37	4	580	< 0.5	2	0.60	< 0.5	7	183	7	2.43	< 10	< 1	0.74	30	0.74	555	12
598093	299	229	< 0.2	1.43	4	610	< 0.5	2	0.71	< 0.5	8	177	5	2.47	< 10	< 1	0.76	30	0.76	555	7
598094	299	229	< 0.2	1.42	4	640	< 0.5	2	0.61	< 0.5	7	193	4	2.48	< 10	< 1	0.73	30	0.72	535	12
598095	299	229	< 0.2	1.50	6	720	< 0.5	2	0.96	< 0.5	8	174	5	2.65	< 10	< 1	0.74	30	0.79	595	7
598096	299	229	< 0.2	1.37	6	680	< 0.5	2	0.72	< 0.5	7	173	4	2.44	< 10	< 1	0.72	30	0.74	550	11
598097	299	229	< 0.2	1.32	8	460	< 0.5	2	1.03	< 0.5	7	167	4	2.42	< 10	< 1	0.59	30	0.74	590	7
598098	299	229	< 0.2	1.39	4	490	< 0.5	2	1.02	< 0.5	8	166	6	2.53	< 10	< 1	0.64	30	0.73	630	10
598099	299	229	< 0.2	1.43	10	710	< 0.5	2	0.86	< 0.5	8	181	5	2.57	< 10	< 1	0.69	30	0.75	620	8
598100	299	229	< 0.2	1.39	2	610	< 0.5	2	1.04	< 0.5	8	161	4	2.59	< 10	< 1	0.59	30	0.77	615	7
598101	299	229	< 0.2	1.31	4	460	< 0.5	< 2	1.54	< 0.5	8	166	4	2.50	10	< 1	0.38	30	0.66	655	10
598102	299	229	< 0.2	1.34	6	490	< 0.5	2	1.17	< 0.5	8	159	4	2.54	< 10	< 1	0.50	30	0.77	635	6
598103	299	229	< 0.2	1.41	8	550	< 0.5	2	0.83	< 0.5	7	178	5	2.48	< 10	< 1	0.67	30	0.75	550	11
598104	299	229	< 0.2	1.34	6	600	< 0.5	2	1.05	< 0.5	8	174	5	2.59	10	< 1	0.55	30	0.75	670	7
598105	299	229	< 0.2	1.25	8	580	< 0.5	2	1.75	< 0.5	7	177	5	2.46	< 10	< 1	0.62	30	0.87	640	11
598106	299	229	< 0.2	1.27	8	360	< 0.5	2	1.40	< 0.5	8	161	4	2.36	10	< 1	0.48	20	0.68	640	6
598107	299	229	< 0.2	1.27	12	570	< 0.5	2	1.10	< 0.5	8	167	4	2.52	< 10	< 1	0.52	30	0.74	630	10
598108	299	229	< 0.2	1.37	8	540	< 0.5	2	0.99	< 0.5	8	169	6	2.53	< 10	< 1	0.68	30	0.75	585	7
598109	299	229	< 0.2	1.39	6	530	< 0.5	< 2	1.06	< 0.5	8	162	6	2.61	10	< 1	0.61	30	0.82	605	9
598110	299	229	0.2	1.43	8	570	< 0.5	4	0.86	< 0.5	8	163	9	2.60	< 10	< 1	0.67	30	0.82	580	6
598111	299	229	0.2	1.48	6	620	< 0.5	< 2	0.84	< 0.5	8	177	7	2.68	< 10	< 1	0.75	30	0.84	635	11

CERTIFICATION: Stan Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GA
Comments: ATTN: MARK REBAGLIATI

Page ber : 1-B
Total P : 1
Certificate Date: 25-AUG-9
Invoice No. : I9422824
P.O. Number :
Account : IVZ

94-355

CERTIFICATE OF ANALYSIS A9422824

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598092	299	229	0.14	6	410	2	< 2	6	29	0.16	< 10	< 10	59	< 10	48
598093	299	229	0.15	4	400	< 2	< 2	7	34	0.16	< 10	< 10	60	< 10	58
598094	299	229	0.14	5	380	2	2	7	34	0.13	< 10	< 10	60	< 10	50
598095	299	229	0.13	5	430	2	< 2	8	38	0.14	< 10	< 10	65	< 10	48
598096	299	229	0.13	4	390	2	< 2	7	32	0.14	< 10	< 10	59	< 10	46
598097	299	229	0.11	4	380	2	< 2	7	41	0.10	< 10	< 10	54	< 10	50
598098	299	229	0.10	4	420	6	< 2	7	40	0.11	< 10	< 10	55	< 10	48
598099	299	229	0.12	6	420	4	< 2	7	39	0.12	< 10	< 10	58	< 10	50
598100	299	229	0.12	4	420	2	< 2	7	42	0.10	< 10	< 10	57	< 10	50
598101	299	229	0.08	6	420	6	< 2	7	67	0.02	< 10	< 10	43	< 10	50
598102	299	229	0.10	4	420	4	< 2	7	44	0.08	< 10	< 10	52	< 10	48
598103	299	229	0.14	4	400	2	< 2	7	42	0.13	< 10	< 10	57	< 10	48
598104	299	229	0.12	5	430	6	< 2	7	48	0.10	< 10	< 10	56	< 10	60
598105	299	229	0.10	5	390	6	< 2	6	73	0.09	< 10	< 10	47	< 10	50
598106	299	229	0.08	4	400	6	< 2	7	57	0.04	< 10	< 10	42	< 10	48
598107	299	229	0.11	5	390	2	< 2	7	57	0.09	< 10	< 10	54	< 10	50
598108	299	229	0.12	5	430	4	< 2	7	49	0.12	< 10	< 10	58	< 10	48
598109	299	229	0.11	5	430	4	< 2	7	49	0.12	< 10	< 10	62	< 10	50
598110	299	229	0.14	4	430	4	< 2	7	42	0.15	< 10	< 10	65	< 10	48
598111	299	229	0.16	6	450	2	2	7	40	0.17	< 10	< 10	68	< 10	50

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GA
Comments: ATTN: MARK REBAGLIATI

Page [illegible]er : 1
Total P[illegible] : 1
Certificate Date: 20-AUG-9
Invoice No. : I9422823
P.O. Number :
Account : IVZ

94-355

CERTIFICATE OF ANALYSIS A9422823

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598092	214 --	120	< 0.01	0.002	< 0.03
598093	214 --	114	< 0.01	0.001	< 0.03
598094	214 --	112	< 0.01	0.002	< 0.03
598095	214 --	134	< 0.01	0.001	< 0.03
598096	214 --	134	< 0.01	0.001	< 0.03
598097	214 --	159	< 0.01	0.001	< 0.03
598098	214 --	147	< 0.01	0.002	< 0.03
598099	214 --	127	< 0.01	0.001	< 0.03
598100	214 --	143	< 0.01	0.001	< 0.03
598101	214 --	140	< 0.01	0.002	< 0.03
598102	214 --	156	< 0.01	0.001	< 0.03
598103	214 --	119	< 0.01	0.002	< 0.03
598104	214 --	141	< 0.01	0.001	< 0.03
598105	214 --	97	< 0.01	0.002	< 0.03
598106	214 --	139	< 0.01	0.001	< 0.03
598107	214 --	112	< 0.01	0.001	< 0.03
598108	214 --	140	< 0.01	0.001	< 0.03
598109	214 --	145	< 0.01	0.001	< 0.03
598110	214 --	150	< 0.01	0.001	< 0.03
598111	214 --	112	< 0.01	0.001	< 0.03

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GA
Comments: ATTN: MARK REBAGLIATI

Page ber :1
Total Pa :1
Certifica ate: 20-AUG-9
Invoice No. :19422825
P.O. Number :
Account :IVZ

94-355

CERTIFICATE OF ANALYSIS A9422825

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
598092-93	283	--	< 0.01	< 0.01								
598094-95	283	--	< 0.01	< 0.01								
598096-97	283	--	< 0.01	< 0.01								
598098-99	283	--	< 0.01	< 0.01								
598100-01	283	--	< 0.01	< 0.01								
598102-03	283	--	< 0.01	< 0.01								
598104-05	283	--	< 0.01	< 0.01								
598106-07	283	--	< 0.01	< 0.01								
598108-09	283	--	< 0.01	< 0.01								
598110-11	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.05	0.06								
DIGENITE	--	--	0.02	0.07								
CHALCOPYRITE	--	--	0.04	0.02								

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GB
Comments: ATTN: MARK REBAGLIATI

Page Nun 1
Total Pages
Certificate Date: 15-SEP-94
Invoice No. : I9425243
P.O. Number :
Account : IVZ

94-356

CERTIFICATE OF ANALYSIS A9425243

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc
598122-23	283	--	< 0.01	< 0.01
598124-25	283	--	< 0.01	< 0.01
598126	283	--	< 0.01	< 0.01
CHALCOCITE	--	--	0.07	0.05
DIGENITE	--	--	0.02	0.06
CHALCOPYRITE	--	--	0.05	0.01

CERTIFICATION: Ahrstei

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GB
Comments: ATTN: MARK REBAGLIATI

Page Numb 1
Total Pages .1
Certificate Date: 28-SEP-94
Invoice No. : I9425241
P.O. Number :
Account : IVZ

94-356

CERTIFICATE OF ANALYSIS A9425241

SAMPLE	PREP CODE		Weight grams	Cu %	MoS2 %	Au g/t						
598122	214	--	118	< 0.01	0.001	< 0.03						
598123	214	--	120	< 0.01	0.003	< 0.03						
598124	214	--	130	< 0.01	0.002	< 0.03						
598125	214	--	127	< 0.01	0.002	< 0.03						
598126	214	--	140	< 0.01	0.003	< 0.03						

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GB
Comments: ATTN: MARK REBAGLIATI

Page Nun. :1-A
Total Page. :1
Certificate Date: 30-SEP-94
Invoice No. :I9425242
P.O. Number :
Account :IVZ

CERTIFICATE OF ANALYSIS A9425242

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598122	299	229	< 0.2	0.82	6	190	< 0.5	< 2	0.51	1.0	3	228	17	1.24	< 10	< 1	0.29	10	0.10	450	10
598123	299	229	0.2	1.15	6	160	< 0.5	< 2	0.47	0.5	3	298	19	1.17	< 10	< 1	0.45	10	0.16	460	19
598124	299	229	< 0.2	0.88	6	180	< 0.5	< 2	0.28	0.5	4	188	11	1.48	< 10	1	0.26	10	0.35	420	8
598125	299	229	0.4	1.00	18	280	< 0.5	< 2	0.75	1.0	6	216	17	1.92	< 10	< 1	0.38	20	0.33	820	13
598126	299	229	< 0.2	0.96	12	300	< 0.5	< 2	0.48	< 0.5	4	182	17	1.83	< 10	< 1	0.47	20	0.47	560	14

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

'ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GB
Comments: ATTN: MARK REBAGLIATI

Page Nur. : 1-B
Total Pages : 1
Certificate Date: 30-SEP-94
Invoice No. : I9425242
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9425242

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598122	299	229	0.04	6	170	14	< 2	2	15	< 0.01	< 10	< 10	12	< 10	116
598123	299	229	0.08	8	130	50	< 2	2	18	< 0.01	< 10	< 10	16	10	106
598124	299	229	0.07	4	220	6	< 2	3	14	0.02	< 10	< 10	25	< 10	164
598125	299	229	0.07	6	270	94	< 2	4	26	0.03	< 10	< 10	31	< 10	260
598126	299	229	0.09	4	260	24	2	5	19	0.08	< 10	< 10	39	< 10	96

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GC
Comments: ATTN: MARK REBAGLIATI

Page Nu 1
Total Pages :
Certificate Date: 15-SEP-94
Invoice No. : I9425237
P.O. Number :
Account : IVZ

94-357

CERTIFICATE OF ANALYSIS A9425237

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc
598112-13	283	--	< 0.01	< 0.01
598114-15	283	--	< 0.01	< 0.01
598116	283	--	< 0.01	< 0.01
CHALCOCITE	--	--	0.07	0.05
DIGENITE	--	--	0.03	0.05
CHALCOPYRITE	--	--	0.05	0.01

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

CIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GC
Comments: ATTN: MARK REBAGLIATI

Page Numb.
Total Pages
Certificate Date: 28-SEP-94
Invoice No. : I9425235
P.O. Number :
Account : IVZ

94-357

CERTIFICATE OF ANALYSIS A9425235

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598112	214 --	132	< 0.01	0.001	< 0.03
598113	214 --	123	< 0.01	0.001	< 0.03
598114	214 --	124	< 0.01	0.001	< 0.03
598115	214 --	134	< 0.01	0.002	< 0.03
598116	214 --	115	< 0.01	0.001	< 0.03

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GC
Comments: ATTN: MARK REBAGLIATI

Page Nur. : 1-A
Total Pages : 1
Certificate Date: 30-SEP-94
Invoice No. : I9425236
P.O. Number :
Account : IVZ

94-357

CERTIFICATE OF ANALYSIS A9425236

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598112	299	229	0.2	1.08	4	280	< 0.5	< 2	0.74	0.5	5	183	9	1.90	10	< 1	0.40	20	0.42	615	10
598113	299	229	< 0.2	1.23	< 2	340	< 0.5	< 2	1.21	< 0.5	4	210	11	2.15	< 10	< 1	0.55	20	0.73	665	12
598114	299	229	< 0.2	1.20	2	340	< 0.5	< 2	0.86	0.5	5	192	17	2.05	< 10	< 1	0.48	20	0.62	580	8
598115	299	229	0.2	1.03	16	330	< 0.5	8	0.58	0.5	4	174	10	1.74	< 10	1	0.51	10	0.50	485	11
598116	299	229	< 0.2	1.28	10	380	< 0.5	< 2	0.64	0.5	4	235	11	1.86	< 10	< 1	0.61	20	0.53	510	9

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

94-357

PACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GC
Comments: ATTN: MARK REBAGLIATI

Page Num. : 1-B
Total Pages : 1
Certificate Date: 30-SEP-94
Invoice No. : I9425236
P.O. Number :
Account : IVZ

CERTIFICATE OF ANALYSIS A9425236

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598112	299	229	0.07	4	270	8	< 2	5	23	0.04	< 10	< 10	34	< 10	74
598113	299	229	0.09	4	300	8	2	5	30	0.08	< 10	10	42	< 10	66
598114	299	229	0.10	5	320	16	2	5	29	0.08	< 10	< 10	44	< 10	96
598115	299	229	0.11	4	240	16	2	4	25	0.08	< 10	< 10	38	< 10	88
598116	299	229	0.17	5	240	16	< 2	4	32	0.08	< 10	< 10	41	< 10	86

CERTIFICATION: Ian H Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD

1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GD
Comments: ATTN: MARK REBAGLIATI

Page Nun... 1
Total Pages .1
Certificate Date: 15-SEP-94
Invoice No. : I9425240
P.O. Number :
Account : IVZ

94-358

CERTIFICATE OF ANALYSIS A9425240

SAMPLE	PREP CODE		Cu % Ox	Cu % Cc								
598117-18	283	--	< 0.01	< 0.01								
598119-20	283	--	< 0.01	< 0.01								
598121	283	--	< 0.01	< 0.01								
CHALCOCITE	--	--	0.07	0.05								
DIGENITE	--	--	0.03	0.05								
CHALCOPYRITE	--	--	0.05	0.01								

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GD
Comments: ATTN: MARK REBAGLIATI

Page Numb. 1-A
Total Pages 1
Certificate Date: 30-SEP-94
Invoice No. : I9425239
P.O. Number :
Account : IVZ

94-358

CERTIFICATE OF ANALYSIS A9425239

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598117	299	229	< 0.2	1.21	4	330	< 0.5	< 2	1.27	< 0.5	7	191	10	2.25	< 10	< 1	0.40	20	0.63	845	13
598118	299	229	< 0.2	1.28	< 2	210	< 0.5	< 2	3.46	< 0.5	6	203	11	2.10	10	1	0.37	20	0.66	1120	13
598119	299	229	< 0.2	1.21	< 2	410	< 0.5	< 2	0.88	< 0.5	6	190	11	2.16	< 10	< 1	0.50	20	0.69	500	9
598120	299	229	< 0.2	1.23	< 2	420	< 0.5	< 2	0.95	< 0.5	6	191	13	2.25	< 10	1	0.50	20	0.77	590	11
598121	299	229	< 0.2	1.31	< 2	300	< 0.5	< 2	1.17	< 0.5	6	197	12	2.30	< 10	< 1	0.33	20	0.78	535	7

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ACIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GD
Comments: ATTN: MARK REBAGLIATI

Certificate Date: 30-SEP-94
Invoice No. :I9425239
P.O. Number :
Account :IVZ

94-358

CERTIFICATE OF ANALYSIS A9425239

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598117	299	229	0.08	4	350	4	2	6	50	0.05	< 10	< 10	48	< 10	46
598118	299	229	0.03	4	350	6	< 2	5	119	< 0.01	< 10	< 10	27	< 10	52
598119	299	229	0.09	4	330	< 2	2	5	32	0.10	< 10	< 10	53	< 10	46
598120	299	229	0.11	5	350	2	< 2	6	35	0.11	< 10	< 10	56	10	50
598121	299	229	0.10	5	370	2	< 2	6	39	0.08	< 10	< 10	51	< 10	52

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

...CIFIC SENTINEL GOLD
1020 - 800 W. PENDER ST.
VANCOUVER, BC
V6V 2V6

Project : CASINO-GD
Comments: ATTN: MARK REBAGLIATI

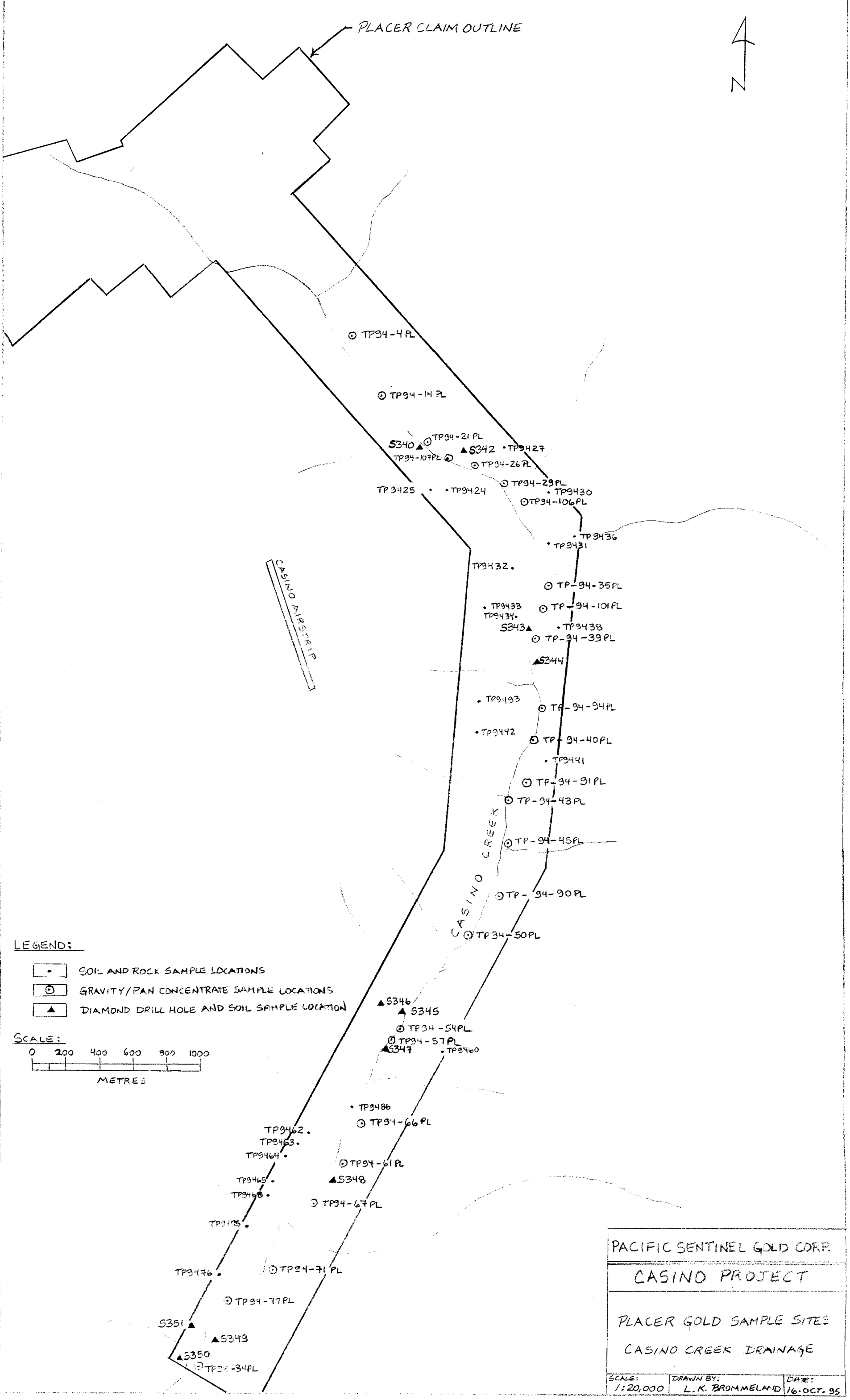
Page Num...
Total Pages
Certificate Date: 28-SEP-94
Invoice No. : I9425238
P.O. Number :
Account : IVZ

94-358

CERTIFICATE OF ANALYSIS A9425238

SAMPLE	PREP CODE	Weight grams	Cu %	MoS2 %	Au g/t
598117	214 --	126	< 0.01	0.002	< 0.03
598118	214 --	135	< 0.01	0.002	< 0.03
598119	214 --	123	< 0.01	0.001	< 0.03
598120	214 --	138	< 0.01	0.002	< 0.03
598121	214 --	126	< 0.01	0.001	< 0.03

CERTIFICATION: _____



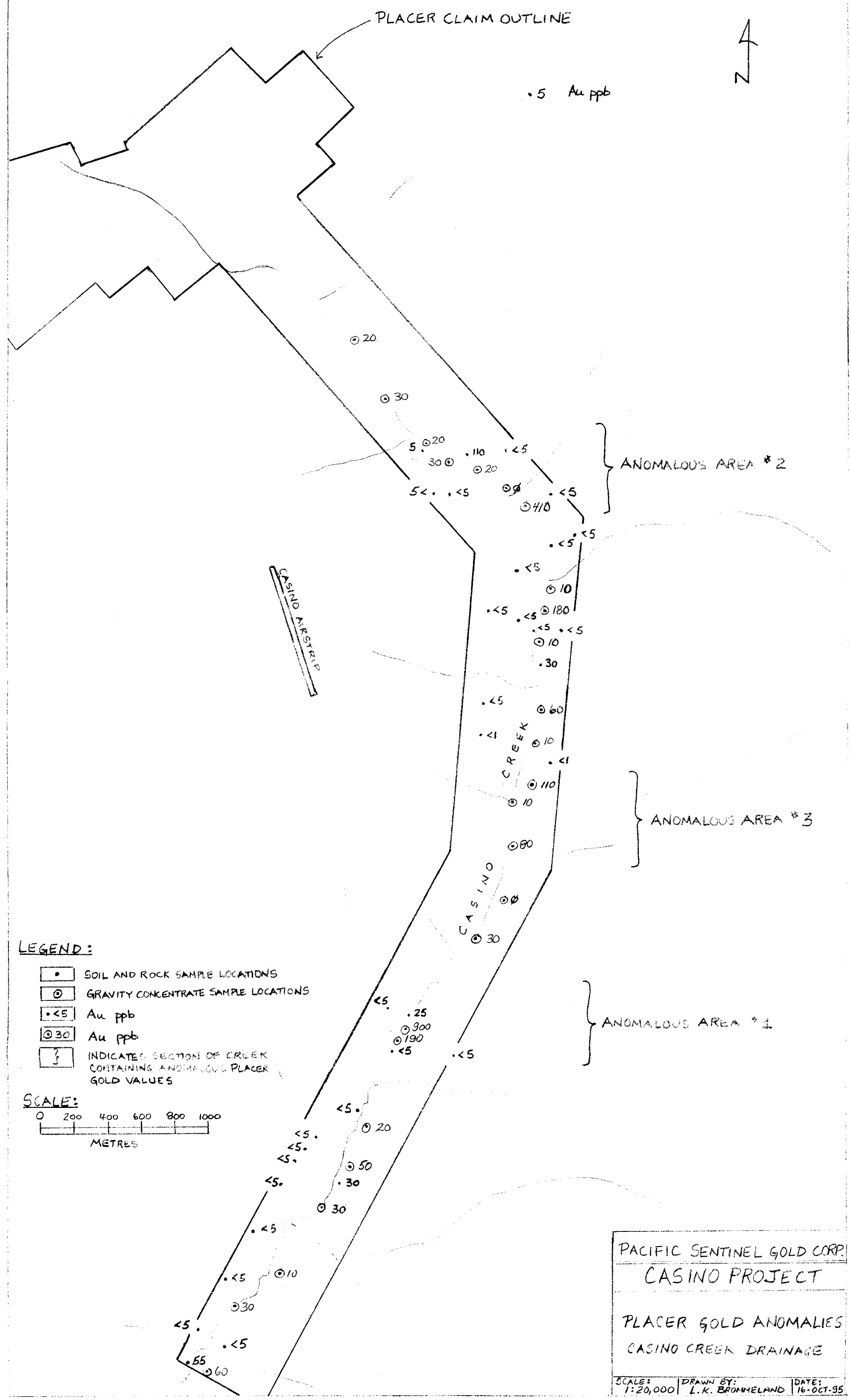
PACIFIC SENTINEL GOLD CORP.

CASINO PROJECT

PLACER GOLD SAMPLE SITES

CASINO CREEK DRAINAGE

SCALE:	DRAWN BY:	DATE:
1:20,000	L.K. BROMMELAND	16-OCT-95


PLACER CLAIM OUTLINE
N
.5 Au ppb
20
30
5
20
30
110
<5
20
5<
<5
<5
410
ANOMALOUS AREA # 2
<5
<5
<5
10
<5
180
<5
<5
<5
10
30
CASINO AIRSTRIP
<5
60
<1
CREEK
<1
110
10
ANOMALOUS AREA # 3
80
CASINO
30
<5
25
900
190
<5
<5
ANOMALOUS AREA # 1
<5
20
<5
<5
<5
50
30
30
<5
<5
10
30
<5
<5
55
60
LEGEND:
SOIL AND ROCK SAMPLE LOCATIONS
GRAVITY CONCENTRATE SAMPLE LOCATIONS
<5 Au ppb
30 Au ppb
INDICATES SECTION OF CREEK CONTAINING ANOMALOUS PLACER GOLD VALUES
SCALE:
0 200 400 600 800 1000
METRES
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
PLACER GOLD ANOMALIES
CASINO CREEK DRAINAGE
SCALE: 1:20,000
DRAWN BY: L.K. BRONMELAND
DATE: 16-OCT-95

APPENDIX III

PLACER CLAIMS TEST PIT LOGS

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-01

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION		m
AZIMUTH	225°	deg.
INCLINATION	50	deg.

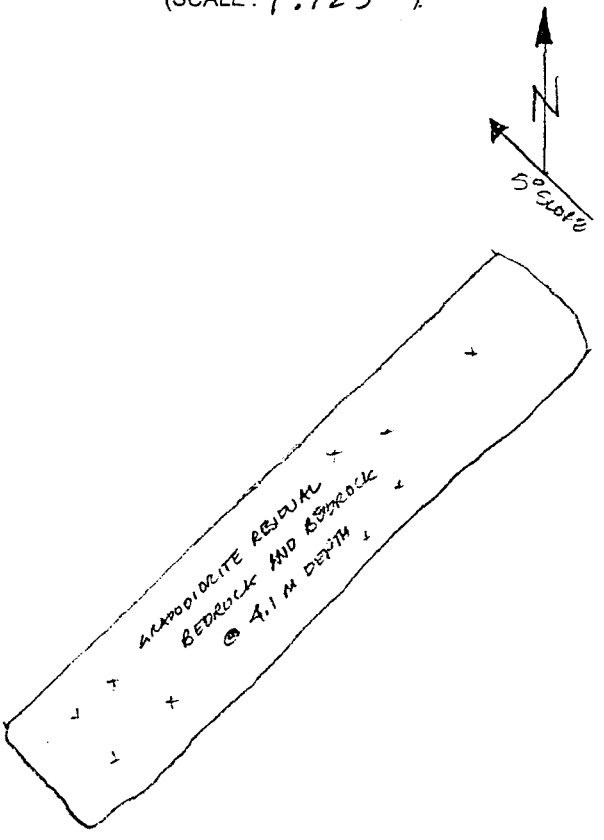
DIMENSIONS

AVERAGE DEPTH	4.1	m
AVERAGE WIDTH	2.5	m
LENGTH	11.0	m
VOLUME	112.8	Cu.m
	147.7	Cu.yd

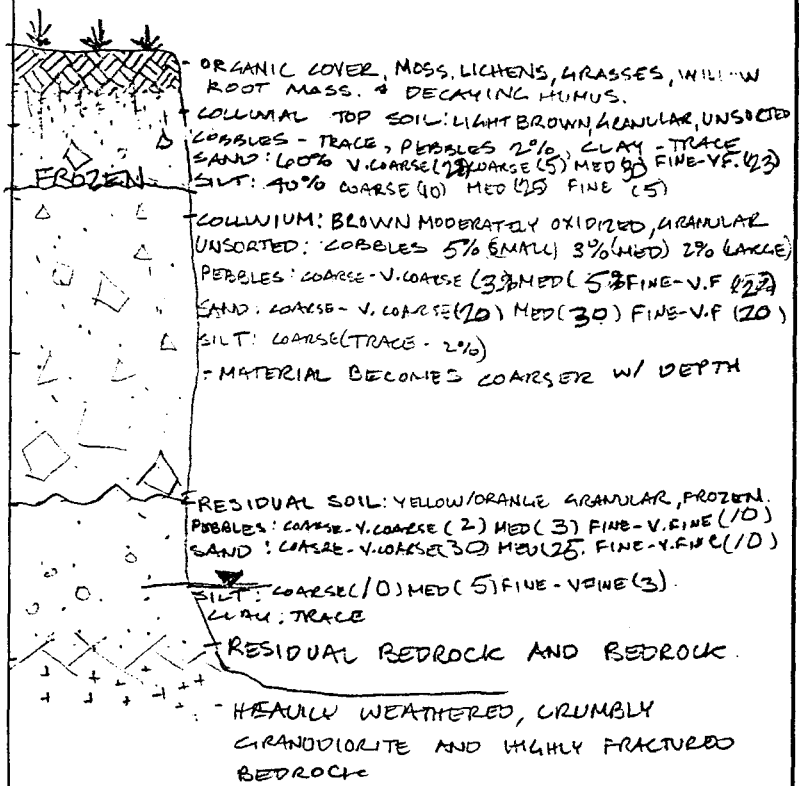
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50/HR	2.0	55.00
GEOTECH	27.50/HR	2.0	55.00
ROAD CONST	130.00/HR	0.5	65.00
TRENCHING	2.00 Cu yd		295.40
BACKFILLING	2.00 Cu yd		295.40
TOTAL EXPENDITURES			765.80

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: _____
CREEK NAME: CASINO
TYPE: CREEK

IDENTIFICATION NUMBER: TP14-02

SURVEY COORDINATES

NORTHING	_____	m
EASTING	_____	m
ELEVATION	_____	m
AZIMUTH	090	deg.
INCLINATION	004 → 270	deg.

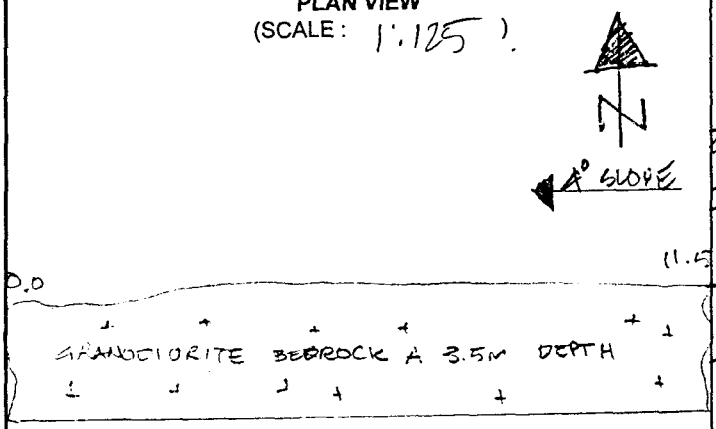
DIMENSIONS

AVERAGE DEPTH	4.0	m
AVERAGE WIDTH	2.0	m
LENGTH	11.5	m
VOLUME	92.0	Cu.m
	120.33	Cu.yd

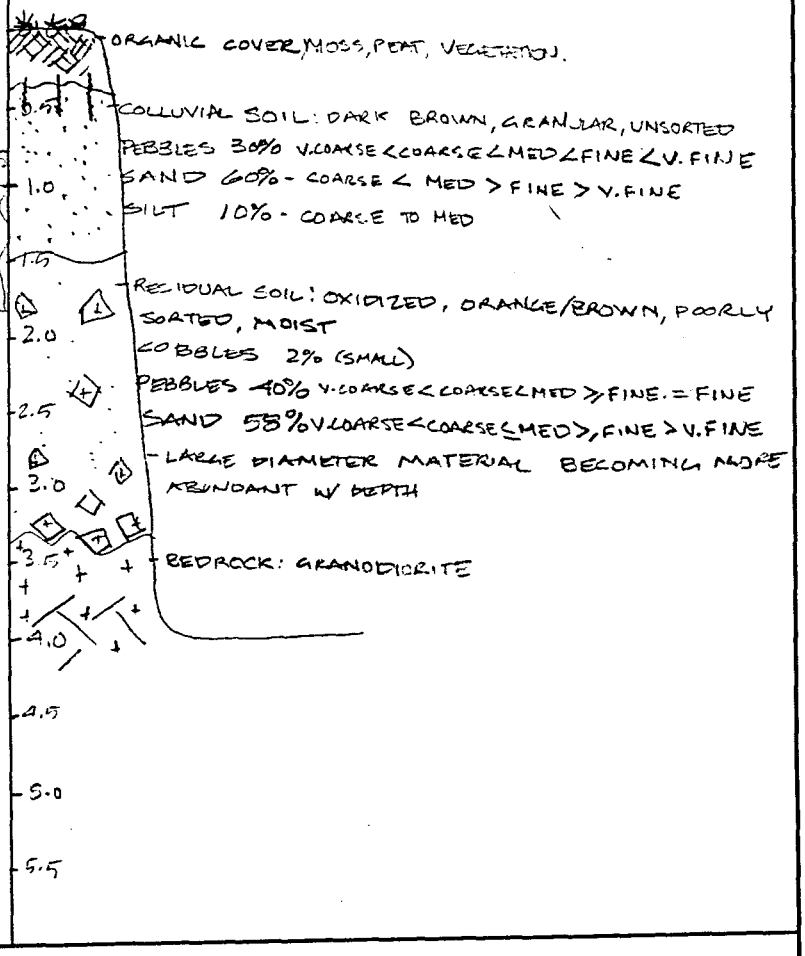
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.67	45.93
GEOTECH	27.50	1.67	45.93
ROAD CONST	130.00	0.17	22.10
TRENCHING	2.00 Cuyd		240.66
BACKFILLING	2.00 Cuyd		240.66
TOTAL EXPENDITURES			595.28

PLAN VIEW
(SCALE: 1":125')



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL _____
PLACER GRAVEL _____
ROCK _____

COMMENTS / DESCRIPTIONS: _____

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-03

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	1035	m
AZIMUTH	056	deg.
INCLINATION	10° → 143°	deg.

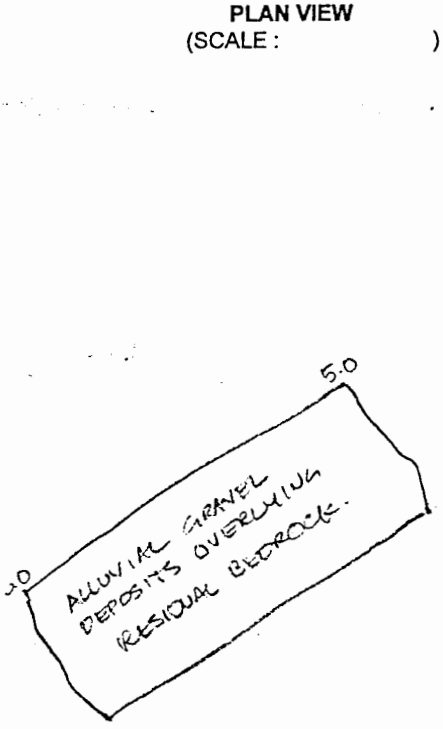
DIMENSIONS

AVERAGE DEPTH	2.8	m
AVERAGE WIDTH	2.0	m
LENGTH	5.0	m
VOLUME	28.0	Cu.m
	36.62	Cu.yd

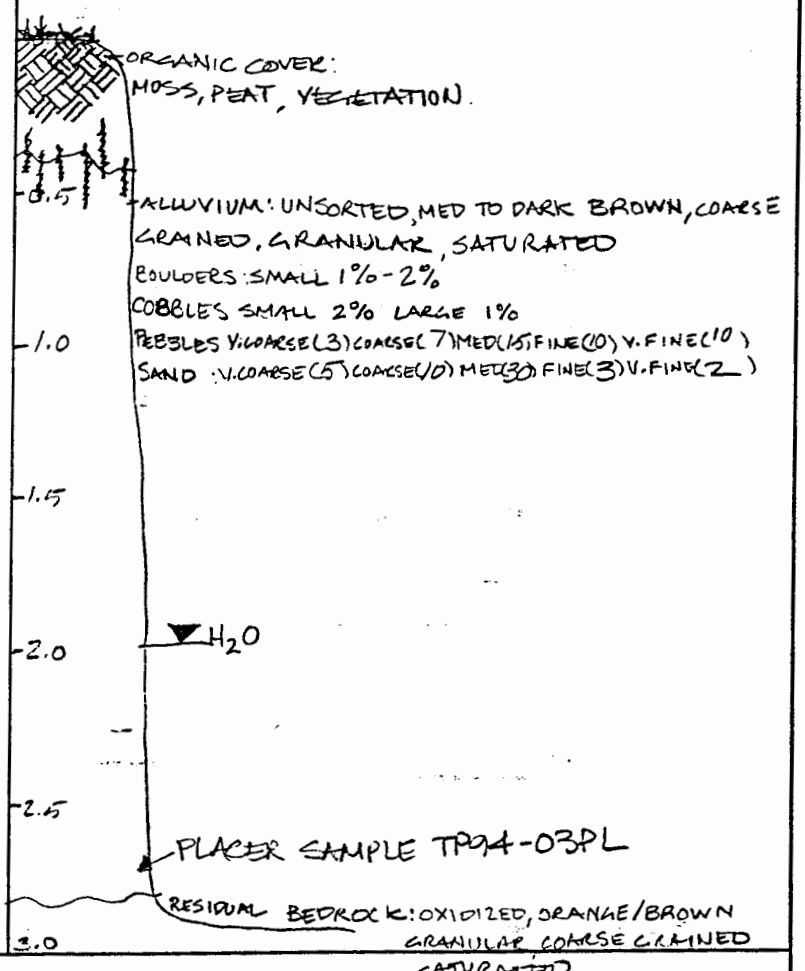
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.08	29.70
GEOTECH	27.50	1.08	29.70
ROAD CONST	130.00	0.08	10.40
TRENCHING	2.00 Cu/yd		73.24
BACKFILLING	2.00 Cu/yd		73.24
TOTAL EXPENDITURES			216.28

PLAN VIEW
(SCALE:)



TRENCH PROFILE
(SCALE: 1:25.)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL TP94-03PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME: [illegible]
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-04

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION		m
AZIMUTH	148	deg.
INCLINATION	02 → 148	deg.

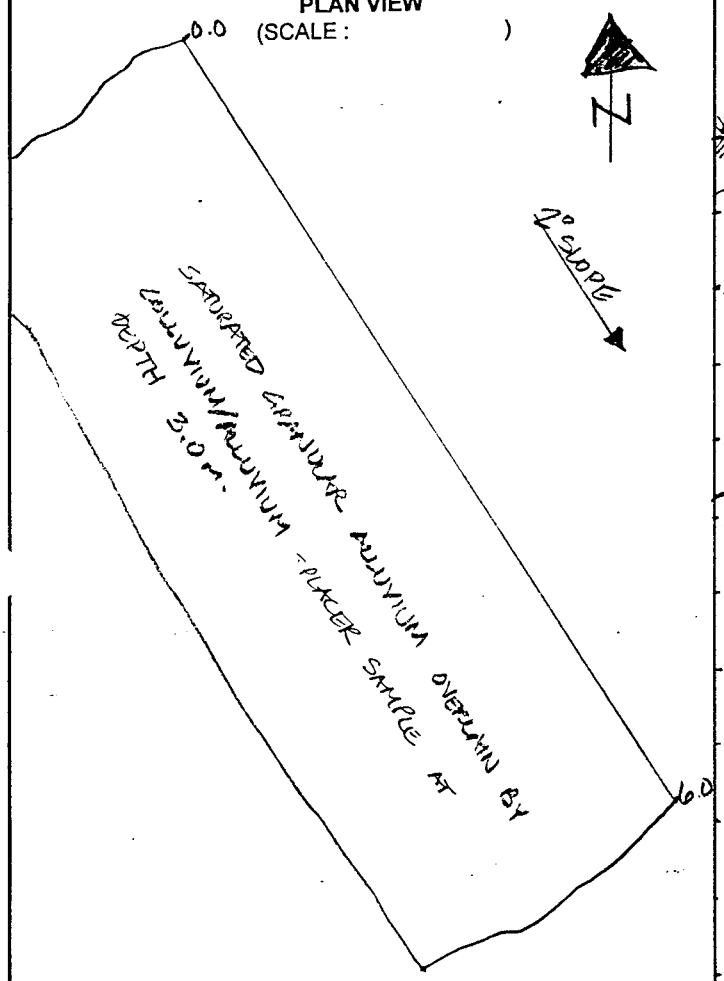
DIMENSIONS

AVERAGE DEPTH	3.5	m
AVERAGE WIDTH	2.0	m
LENGTH	6.0	m
VOLUME	42.0	Cu.m
	54.93	Cu.yd

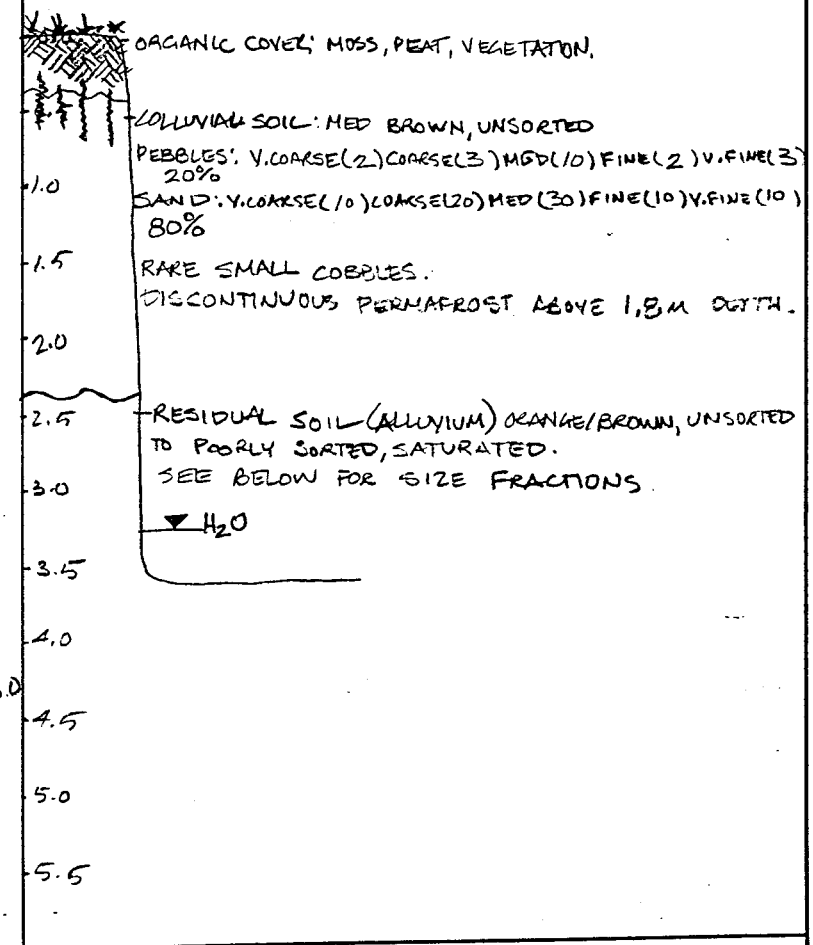
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.5	41.25
GEOTECH	27.50	1.5	41.25
ROAD CONST.	130.00	0.33	42.90
TRENCHING	2.00 Cu yd		109.86
BACKFILLING	2.00 Cu yd		109.86
TOTAL EXPENDITURES			345.12

PLAN VIEW
(SCALE:)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP94-04PL
ROCK

COMMENTS / DESCRIPTIONS: RESIDUAL BEDROCK/ ALLUVIUM
PEBBLES: V.COARSE(2) COARSE(3) MED(10) FINE(10) V.FINE(5)
SAND: V.COARSE(10) COARSE(20) MED(30) FINE(5) V.FINE(5)
COBBLES: <2%
- GRANODIORITE PARENT

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: _____
CREEK NAME: CASINO
TYPE: CREEK

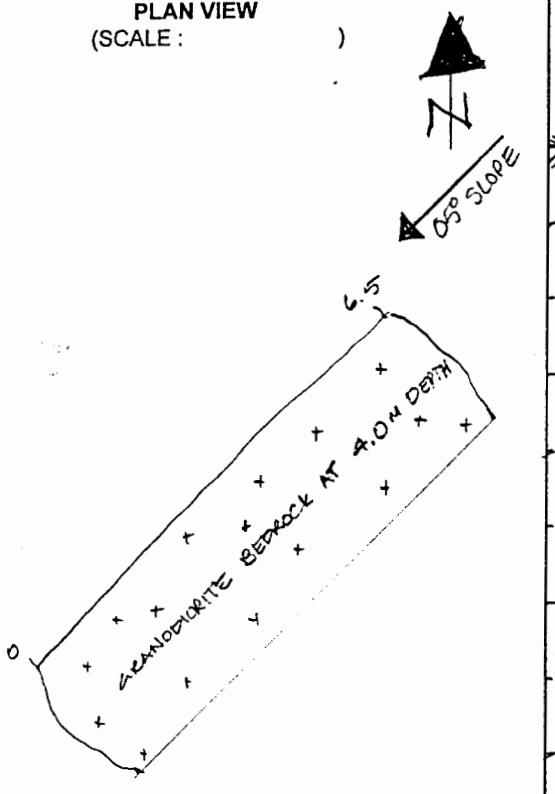
PIT IDENTIFICATION NUMBER: TP14-05

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	4.0	m
EASTING		m	AVERAGE WIDTH	2.0	m
ELEVATION		m	LENGTH	6.5	m
AZIMUTH	044°	deg.	VOLUME	52.0	Cu.m
INCLINATION	05→224	deg.		68.01	Cu.yd

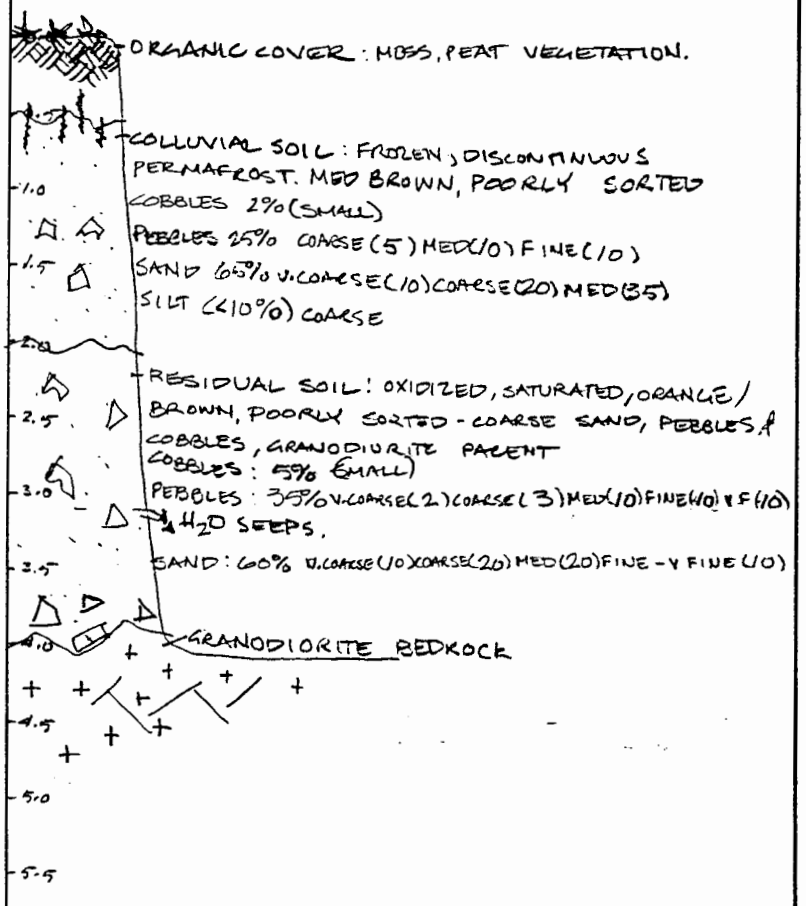
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.67	45.93
GEOTECH	27.50	1.67	45.93
ROAD CONST	130.00	0.67	87.10
TRENCHING	2.00 Cu yd		136.02
BACKFILLING	2.00 Cu yd		136.02
TOTAL EXPENDITURES			450.99

PLAN VIEW
(SCALE :)



TRENCH PROFILE
(SCALE : 1:50)



SAMPLE NUMBERS:

SOIL _____
PLACER GRAVEL _____
ROCK _____

COMMENTS / DESCRIPTIONS: _____

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: _____
CREEK NAME: CASINO
TYPE: CREEK

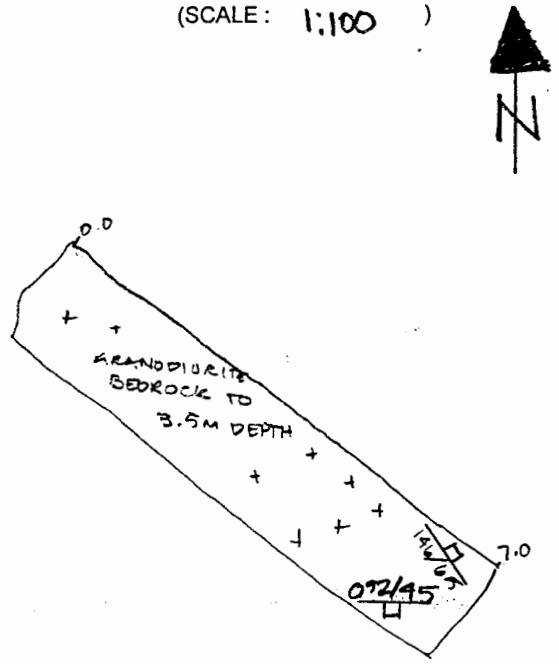
PIT IDENTIFICATION NUMBER: TP94-06

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	3.5	m
EASTING	m	AVERAGE WIDTH	1.5	m
ELEVATION	m	LENGTH	7.0	m
AZIMUTH	128° deg.	VOLUME	36.75	Cu.m
INCLINATION	deg.		48.07	Cu.yd

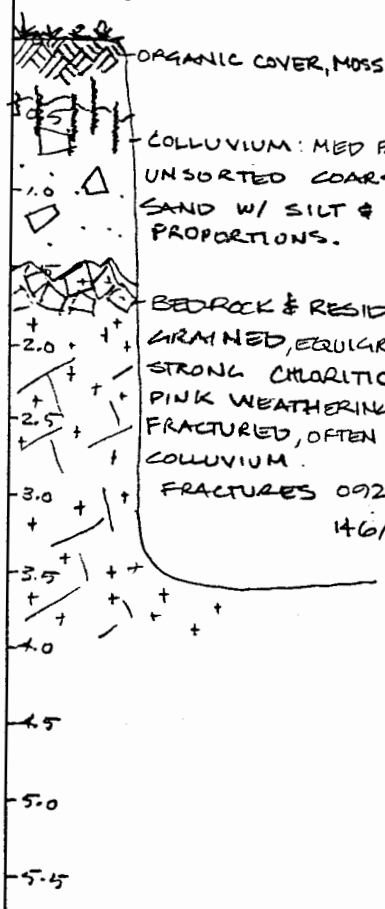
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST	130.00	0.08	10.40
TRENCHING	2.00 Cuyd		96.14
BACKFILLING	2.00 Cuyd		96.14
TOTAL EXPENDITURES			257.68

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:
SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 50
CREEK NAME: Casino
TYPE: creek

PIT IDENTIFICATION NUMBER: TP-94-007

SURVEY COORDINATES

NORTHING	254 240	m
EASTING	112 175	m
ELEVATION	1090	m
AZIMUTH		deg.
INCLINATION	22°	deg.

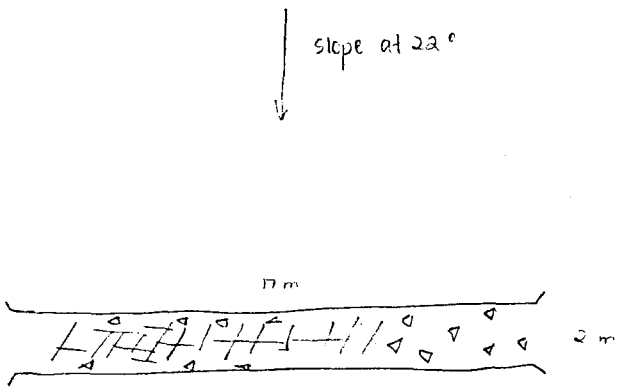
DIMENSIONS

AVERAGE DEPTH	1.5	m
AVERAGE WIDTH	2.0	m
LENGTH	16	m
VOLUME	48	Cu.m
	62.78	Cuyds

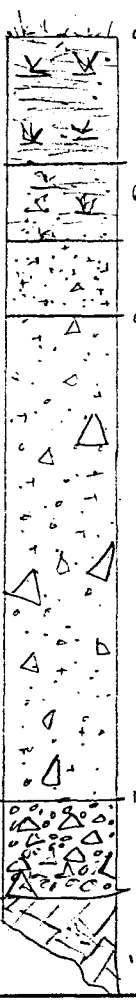
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	3.83	105.33
GEOTECH	27.50	3.83	105.33
ROAD CONST	130.00	0.50	65.00
TRENCHING	2.00 Cuyd		125.56
BACKFILLING	2.00 Cuyd		125.56
TOTAL EXPENDITURES			526.78

PLAN VIEW
(SCALE : 1 : 250)



SOIL PROFILE
(SCALE : 1 : 12.5)



0.00 m VEGETATION:
ground cover = thick, spongy mosses & lichens
trees => dominately willows to 6' in height and occ. stunted black spruce 20-25' in height

0.20 m TOPSOIL:
(A) dk. brown peat v. soft, spongy, moist w/ roots & decaying root matter. Silt & some fine sand w/ mica flakes
(B) colluvium modified by soil development processes very moist with 30% organics, 5% root matter SILT AND FINE SAND

0.45 m COLLUVIUM:
Beige-gray well-drained sand with some silt and gravel. Trace angular and subangular cobble and boulder size clasts and < 5% rootmass

1.25 m RESIDUAL SOIL / HEAVILY WTHR'D BEDROCK
Brown/Orange mod. oxidized heavily wthr'd sandy gravel of qtz, fx (oxidized) bi, cl + musc / bi, hbl =>

1.40 m BEDROCK: Granodiorite, fresh wthr'd in frcs with fine silt and sand in fracts
@ reached to 2 m depth

1.5 m

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME: [illegible]
CREEK NAME: Casino
TYPE: Creek

IDENTIFICATION NUMBER: TP-94-008

SURVEY COORDINATES

NORTHING	254140	m
EASTING	112390	m
ELEVATION	1045	m
AZIMUTH		deg.
INCLINATION		deg.

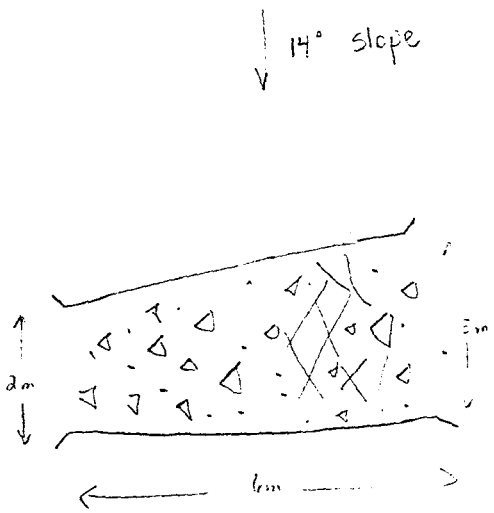
DIMENSIONS

AVERAGE DEPTH	0.8	m
AVERAGE WIDTH	2.5	m
LENGTH	6.0	m
VOLUME	12	Cu.m

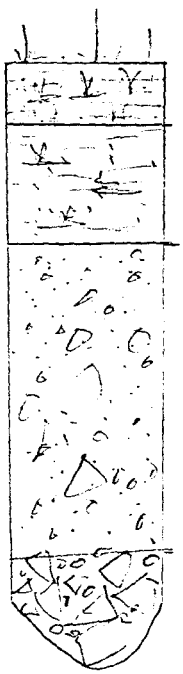
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.42	39.05
GEOTECH	27.50	1.42	39.05
ROAD CONST	130.00	0.50	65.00
TRENCHING	2.00/cuyd		31.39
BACKFILLING	2.00/cuyd		31.39
TOTAL EXPENDITURES			205.88

PLAN VIEW
(SCALE: 1:125)



SOIL PROFILE
(SCALE: 1:12.5)



0.00 m VEGETATION: Moss & lichens
Willows and stunted black spruce

0.10 m TOPSOIL:
Thick fibrous spongy black peat
V. moist

0.30 m COLLUVIUM:
Beige-gray sands with some silt, gravel and ang to subang. cobble and boulder clasts
Trace rootmass.
* Frozen solid with invisible ice well-bonded and very hard

0.80 m Residual granodiorite - oxidized also frozen, very hard

1.00 m

Position: 140° at 80m from Elbow in road

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: TP-94-009

SURVEY COORDINATES

NORTHING	254 085	m
EASTING	112 390	m
ELEVATION	1055	m
AZIMUTH		deg.
INCLINATION		deg.

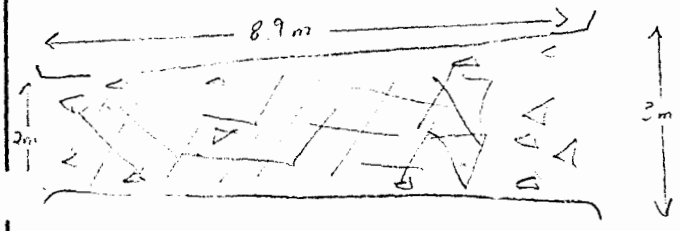
DIMENSIONS

AVERAGE DEPTH	1.5	m
AVERAGE WIDTH	2.5	m
LENGTH	6.0	m
VOLUME	30	Cu.m

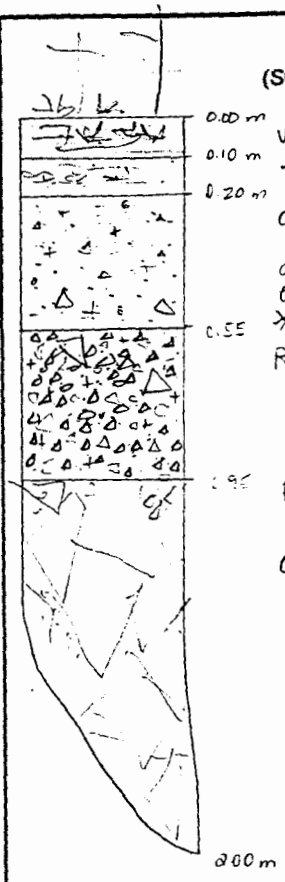
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.75	20.63
GEOTECH	27.50	0.75	20.63
ROAD CONST	130.00	0.25	32.50
TRENCHING	2.00/cuyd		78.48
BACKFILLING	2.00/cuyd		78.48
TOTAL EXPENDITURES			230.70

PLAN VIEW
(SCALE : 1:125)



SOIL PROFILE
(SCALE : 1:20)



0.00 m VEGETATION : Moss & lichens, Willows, Black spruce willow to 10' in height

0.10 m TOPSOIL : Black, V. moist

0.20 m COLLUVIUM :
Bleak-gray sands with some silt, gravel and angular to subang. cobbles and boulders
* may have been frozen at one time

0.55 RESIDUAL SOIL / HEAVILY WTHR'D BEDROCK : of granodiorite?
Sandy gravel of qtz, feldspars, hbl / biot / chlorite / muscovite.

1.95 BEDROCK :
Granodiorite. Mafics have been chloritized.

2.00 m

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 47
CREEK NAME: Casino
TYPE: Creek

PIT IDENTIFICATION NUMBER: TP-94-010

SURVEY COORDINATES

NORTHING	253 830	m
EASTING	112 410	m
ELEVATION	1070	m
AZIMUTH		deg.
INCLINATION		deg.

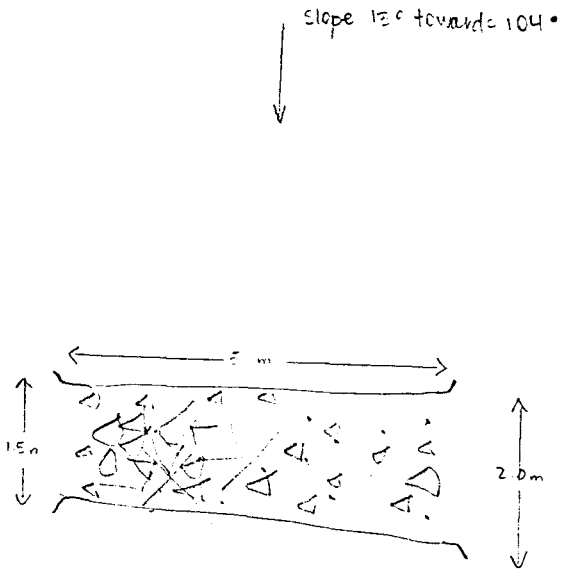
DIMENSIONS

AVERAGE DEPTH	0.70	m
AVERAGE WIDTH	1.75	m
LENGTH	4.5	m
VOLUME	5.51	Cu.m

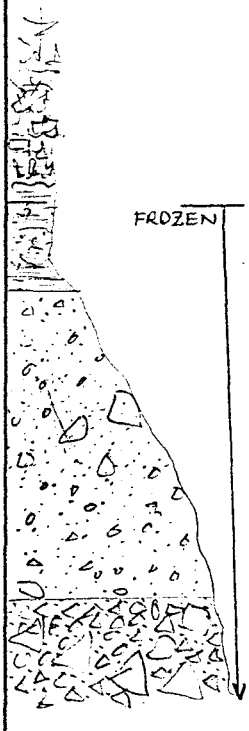
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.50	13.75
GEOTECH	27.50	0.50	13.75
ROADCONST	130.00	0.50	65.00
TRENCHING	2.00 Cuyd		14.41
BACKFILLING	2.00 Cuyd		14.41
TOTAL EXPENDITURES			121.33

PLAN VIEW
(SCALE : 1 : 100)



SOIL PROFILE
(SCALE : 1 : 12.5)



0 – VEGETATION – primarily mosses, at surface grasses, lichens, berry bushes, willows & black spruces

– 0.20 m TOPSOIL: Brown, fibrous, spongy PEAT frozen

– 0.35 m COLLUVIUM: Lt grey-grey sands w/ some silts, some gravels, cobbles, boulders. frozen

– 0.85 m RESIDUAL BEDROCK Sandy gravel of qtz, feldspar, mica frozen

– 1.0 m

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 47
CREEK NAME: Casino
TYPE: Creek

IDENTIFICATION NUMBER: TP-94-011

SURVEY COORDINATES

NORTHING	253895	m
EASTING	112610	m
ELEVATION	1012	m
AZIMUTH	231°	deg.
INCLINATION		deg.

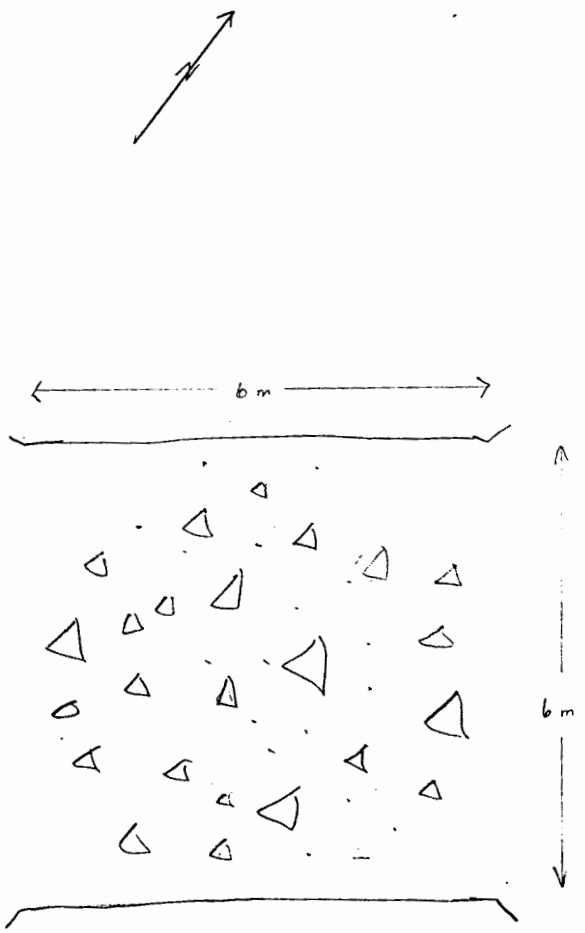
DIMENSIONS

AVERAGE DEPTH	1	m
AVERAGE WIDTH	6.0	m
LENGTH	6.2	m
VOLUME	37.2	Cu.m

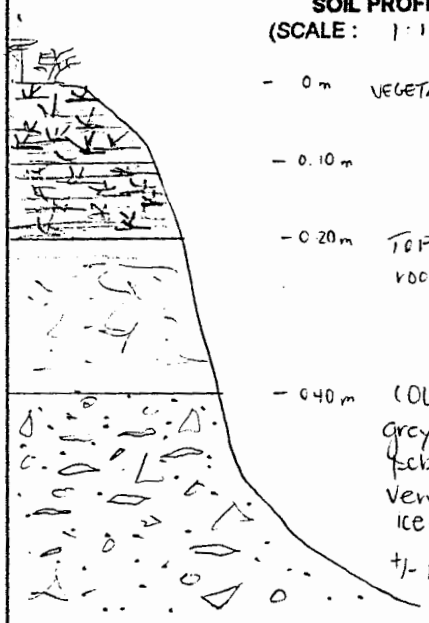
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.92	25.30
GEOTECH	27.50	0.92	25.30
ROAD CONST	130.00	0.50	65.00
TRENCHING	1.50/cu.yd		72.98
BACKFILLING	1.50/cu.yd		72.98
TOTAL EXPENDITURES			261.56

PLAN VIEW
(SCALE : 1:100)



SOIL PROFILE
(SCALE : 1:10)



- 0 m — VEGETATION : Thick green moss willows, berries, stunted black spruce
- 0.10 m — Dead brown/grey moss
- 0.20 m — TOPSOIL - Black, fibrous, rooty w/ silt & mica flakes
- 0.40 m — COLLUVIUM : Fine grained FROZE grey/blue silt w/ occas pebbles to cobbles. Very hard, fine, invisible ice lenses - well-bonded
- +/- RESIDUAL BEDROCK

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 47
CREEK NAME: Casino
TYPE: Creek

IDENTIFICATION NUMBER: TP-94-12

SURVEY COORDINATES

NORTHING	253 870	m
EASTING	112610	m
ELEVATION	1015	m
AZIMUTH	231°	deg.
INCLINATION		deg.

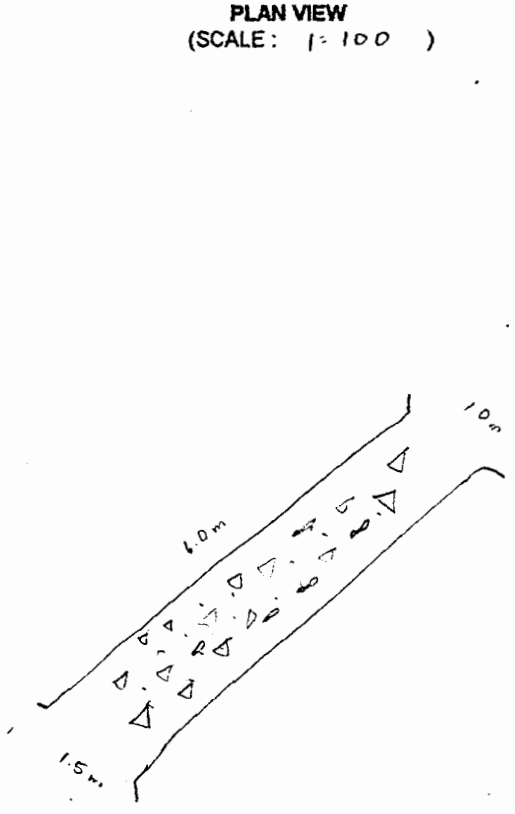
DIMENSIONS

AVERAGE DEPTH	1.1	m
AVERAGE WIDTH	1.4	m
LENGTH	6.0	m
VOLUME	9.24	Cu.m

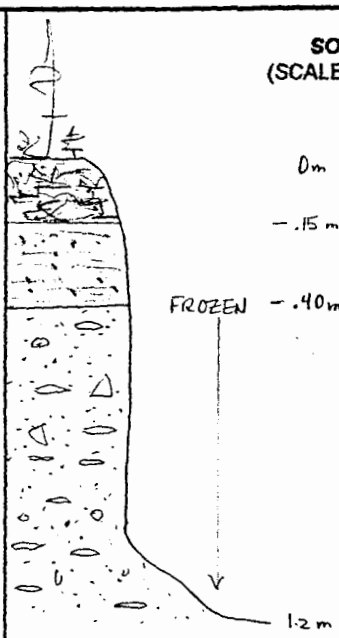
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.50	13.75
GEOTECH	27.50	0.50	13.75
ROAD CONST	130.00	0.08	10.40
TRENCHING	1.50 Cuyd		18.13
BACKFILLING	1.50 Cuyd		18.13
TOTAL EXPENDITURES			74.16

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:20)



0m VEGETATION: 3-5 cm live moss
5-10 cm dead moss

-.15 m PEAT / TOPSOIL: very fibrous, spongy 50% Black silt, micas 50% root mast

-.40m COLLUVIUM: Stratified grey/beige predominately f.g. silt and fine sand
some lenses of yellow-orange sand & gravel, granodiorite?) in origin.
Banded by ice lenses and ice granules
Thaw is unstable
Texture is clay overall.

1.2 m Grading into RESIDUAL BEDROCK?

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASE 46
CREEK NAME: Casino
TYPE: Creek

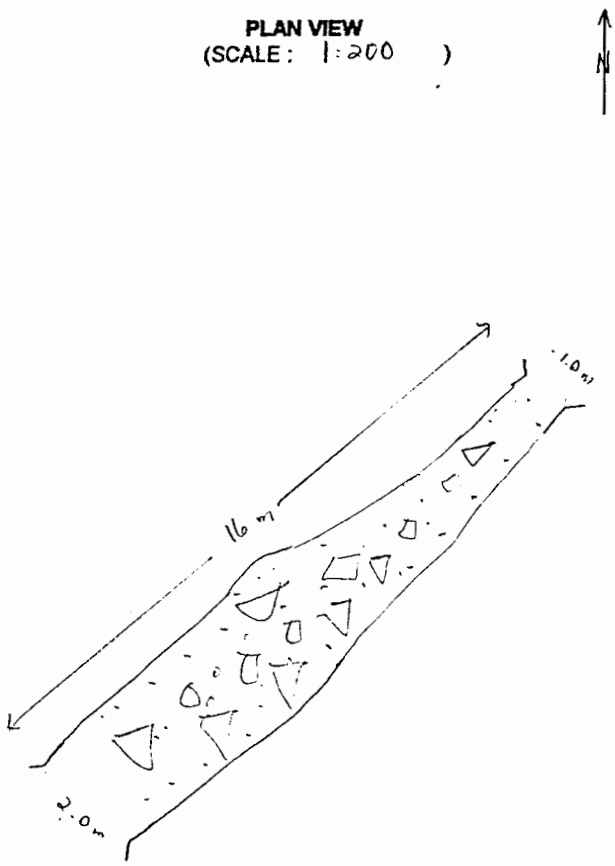
PIT IDENTIFICATION NUMBER: TP-94-13

SURVEY COORDINATES			DIMENSIONS		
NORTHING	253850	m	AVERAGE DEPTH	2.5	m
EASTING	112610	m	AVERAGE WIDTH	1.8	m
ELEVATION	1015	m	LENGTH	16	m
AZIMUTH	231°	deg.	VOLUME	72	Cu.m
INCLINATION		deg.			

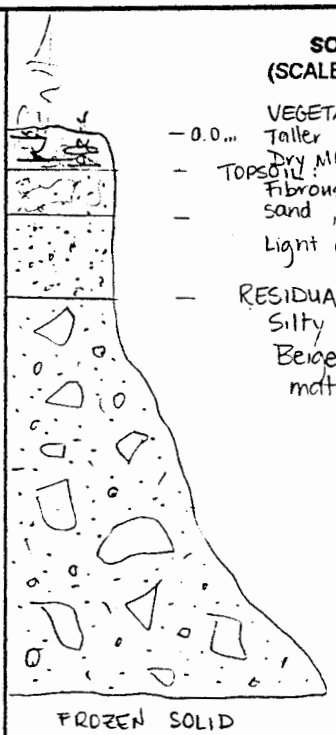
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.75	48.13
GEOTECH	27.50	1.75	48.13
ROAD CONST	130.00	0.08	10.40
TRENCHING	2.00/cu yd		188.34
BACKFILLING	2.00/cu yd		188.34
TOTAL EXPENDITURES			483.34

PLAN VIEW
(SCALE : 1:200)



SOIL PROFILE
(SCALE : 1:50)



VEGETATION :
Taller Spruce, some Poplar, Aspen
Dry Moss and Willow Brush

TOPSOIL : Dark brown, gray Fibrous, dead roots in peat with some sand, silt, gravel.

Light orange brown sand & silt

RESIDUAL BEDROCK :
Silty sand and gravel, Beige-yellow clasts in brown matrix

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PI ESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASE TO
CREEK NAME: Casino
TYPE: Creek

IT NTIFICATION NUMBER: TP-94-14

SURVEY COORDINATES

NORTHING	253940	m
EASTING	112695	m
ELEVATION	987	m
AZIMUTH	079	deg.
INCLINATION		deg.

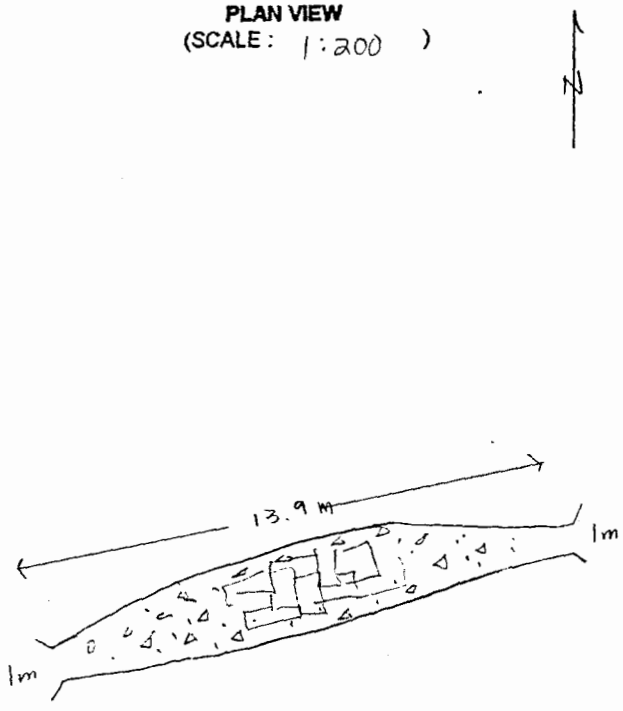
DIMENSIONS

AVERAGE DEPTH	2.4	m
AVERAGE WIDTH	1.5	m
LENGTH	13.9	m
VOLUME	50.04	Cu.m

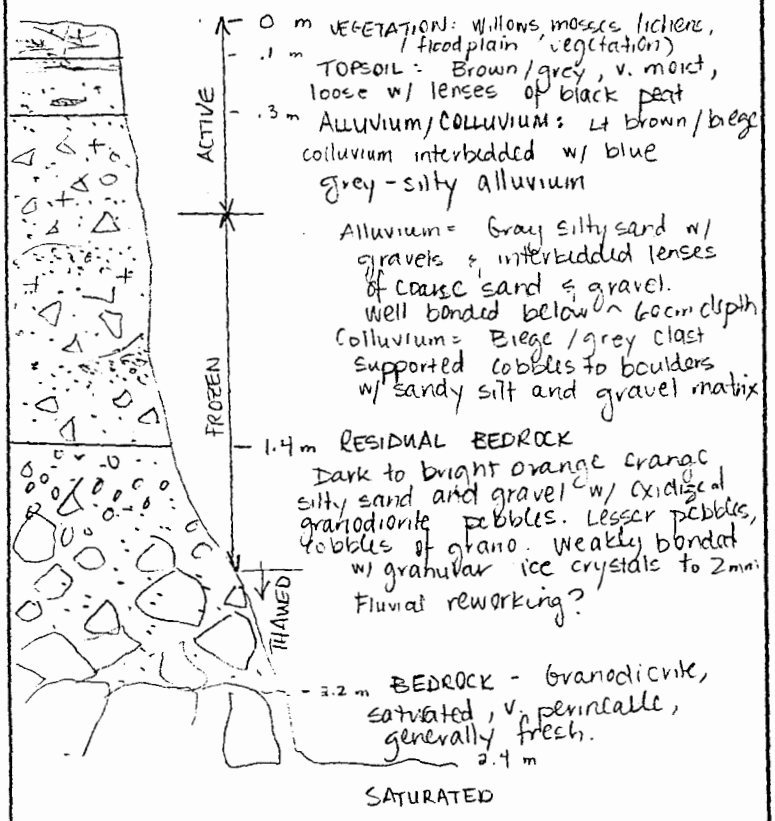
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.58	43.45
GEOTECH	27.50	1.58	43.45
ROAD CONST	130.00	0.67	87.10
TRENCHING	2.00/cuyd		130.90
BACKFILLING	2.00/cuyd		130.90
TOTAL EXPENDITURES			435.80

PLAN VIEW
(SCALE: 1:200)



SOIL PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT D. CRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-15

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION		m
AZIMUTH	040°	deg.
INCLINATION		deg.

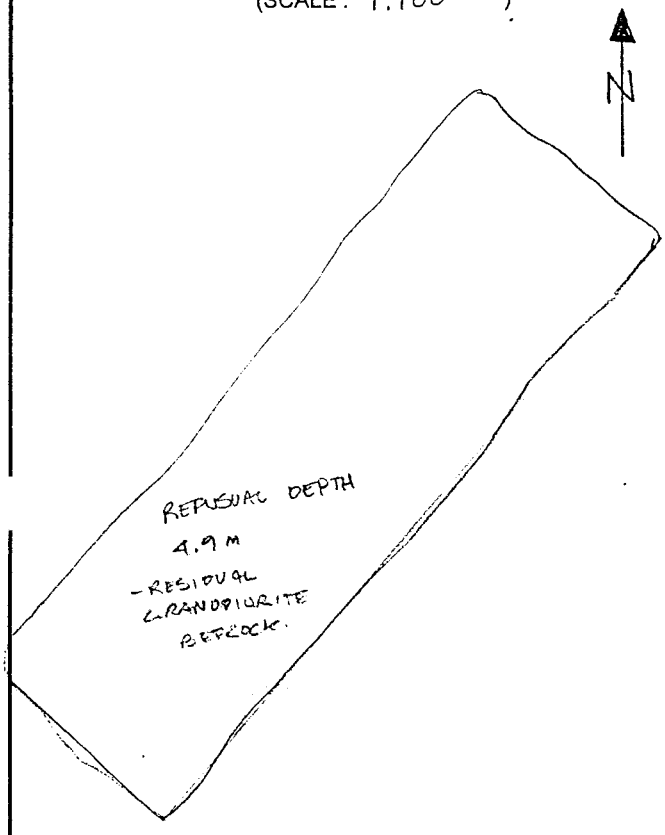
DIMENSIONS

AVERAGE DEPTH	4.9	m
AVERAGE WIDTH	3.0	m
LENGTH	10.0	m
VOLUME	147.0	Cu.m
	192.6	Cu.yd

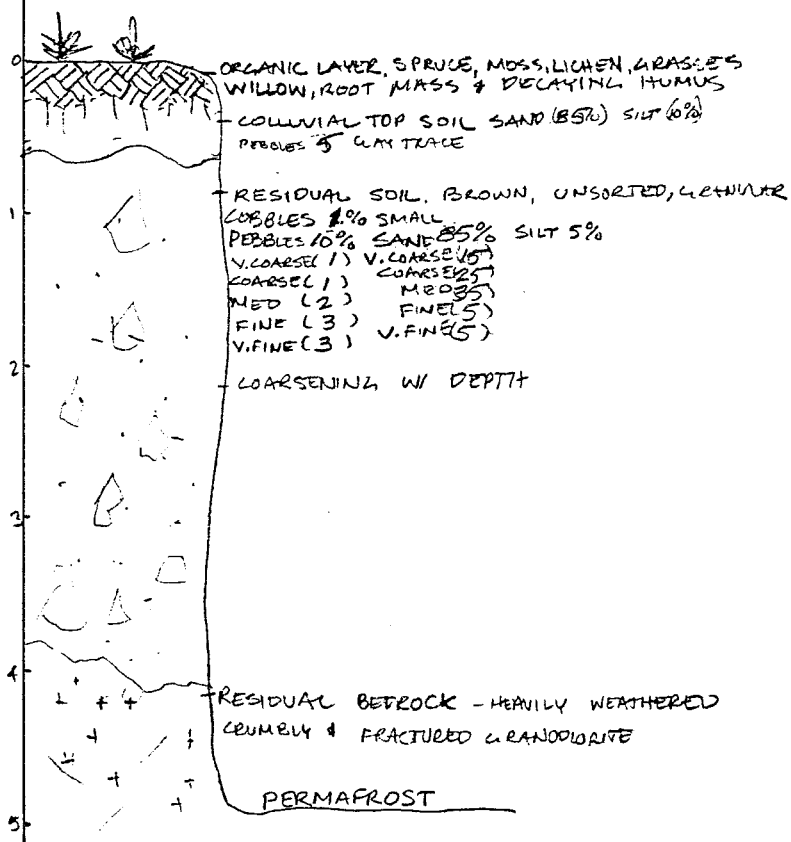
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50/HR	1.75	48.13
GEOTECH	27.50/HR	1.75	48.13
ROAD CONST	130.00/HR	0.75	97.50
TRENCHING	2.00/Cu yd		385.20
BACKFILLING	2.00/Cu yd		385.20
TOTAL EXPENDITURES			964.16

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT . SCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

.7 NTIFICATION NUMBER: TP94-16

URVEY COORDINATES

ORTHING		m
ASTING		m
LEVATION	1050	m
ZIMUTH	034	deg.
NCLINATION	08 → 214	deg.

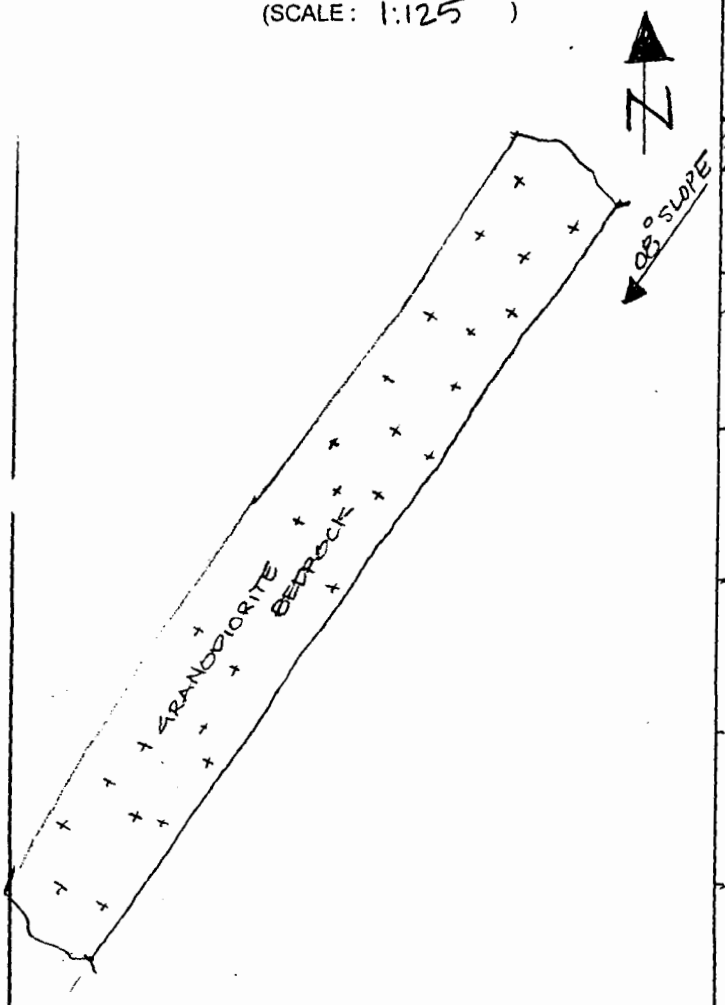
DIMENSIONS

AVERAGE DEPTH	2.7	m
AVERAGE WIDTH	2.0	m
LENGTH	15.0	m
VOLUME	81.0	Cu.m
	105.9	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.33	64.08
GEOTECH	27.50	2.33	64.08
ROAD CONST	130.00	0.08	10.79
TRENCHING	2.00 Cu/yd		211.80
BACKFILLING	2.00 Cu/yd		211.80
TOTAL EXPENDITURES			562.55

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:25)



ORGANIC COVER: HUMUS, MOSS, LICHEN, PLANT ROOTS. MINOR MINERAL CONTENT COARSE SILT / FINE SAND ~ 5%

COLLUVIUM - UNSORTED, WEAKLY FOLIATED, MED. BROWN.
PEBBLES: V.COARSE(2) COARSE(3) MED(3) FINE(4) V.F(3)
SAND: V.COARSE(10) COARSE(15) MED(20) FINE(5) V.F(5)
SILT: COARSE(10)

RESIDUAL BEDROCK: POORLY SORTED LIGHT ORANGE BROWN.
COBBLES: SMALL (1%)
PEBBLES: V.COARSE(1%) COARSE(28) MED(3) FINE(3) V.FINE(2)
SAND: V.COARSE(20) COARSE(30) MED(25) FINE(5) V.FINE(5)
SILT: COARSE (5%)

BEDROCK: GRANITIC, FRACTURED BLOCKY. COARSE GRAINED, EQUIGRANULAR, 20% HORNBLENDE, FELDSPAR WEATHERS PINK. FRESH SURFACE IS PALE PINK / YELLOW - GRANODIORITE TO MONZODIORITE IN COMPOSITION

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-17

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	1050	m
AZIMUTH	047	deg.
INCLINATION	11→232	deg.

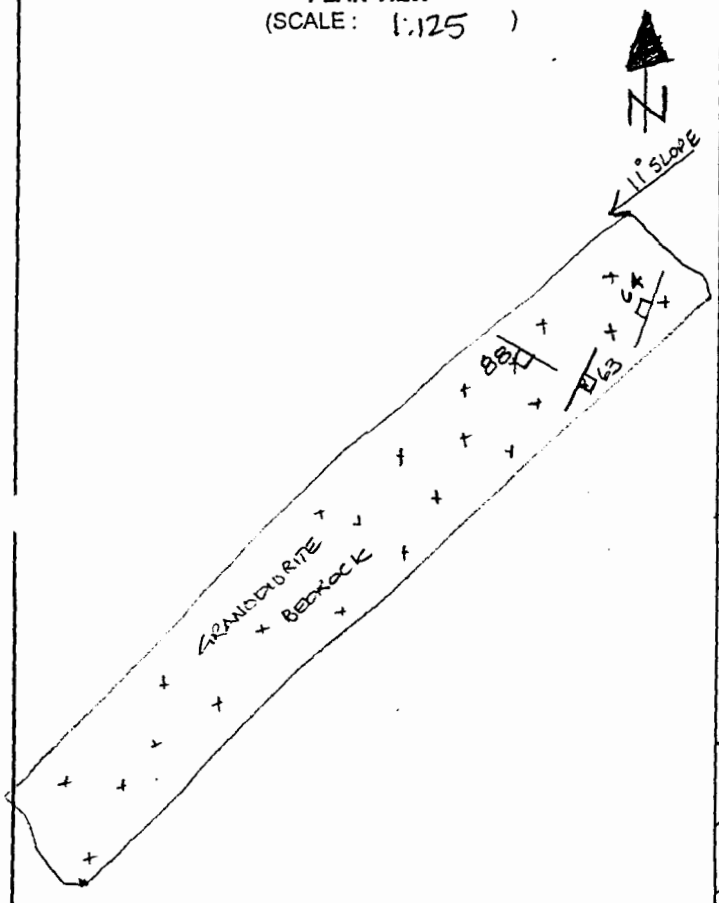
DIMENSIONS

AVERAGE DEPTH	2.3	m
AVERAGE WIDTH	2.0	m
LENGTH	14.2	m
VOLUME	65.3	Cu.m
	85.4	Cu.yd

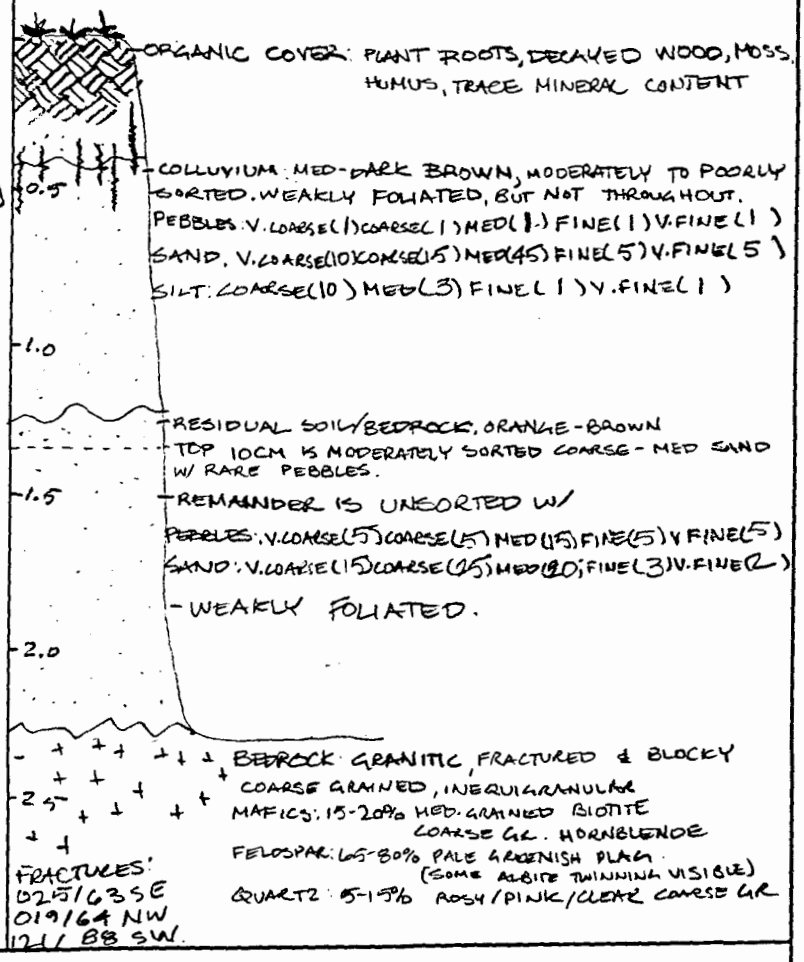
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST.	130.00	0.11	14.30
TRENCHING	2.00 Cu/yd	0.42	170.86
BACKFILLING	2.00 Cu/yd.	0.33	170.86
TOTAL EXPENDITURES			466.02

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT . SCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

I. TIFICATION NUMBER: TP94-18

RVEY COORDINATES

ORTHING		m
STING		m
EVATION	1035	m
IMUTH	045	deg.
CLINATION	12 → 225	deg.

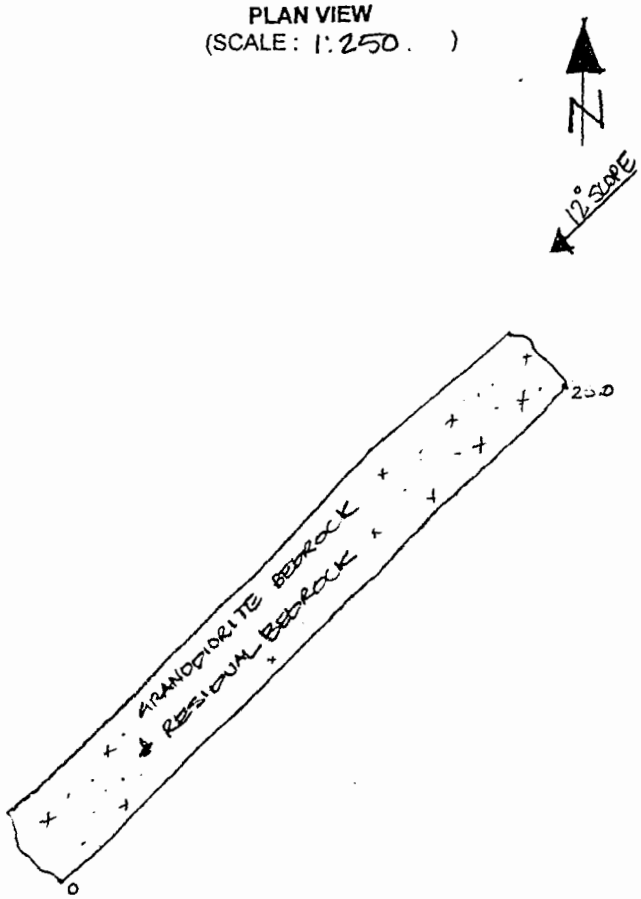
DIMENSIONS

AVERAGE DEPTH	2.1	m
AVERAGE WIDTH	2.6	m
LENGTH	23.0	m
VOLUME	125.58	Cu.m
	164.25	Cu.yd

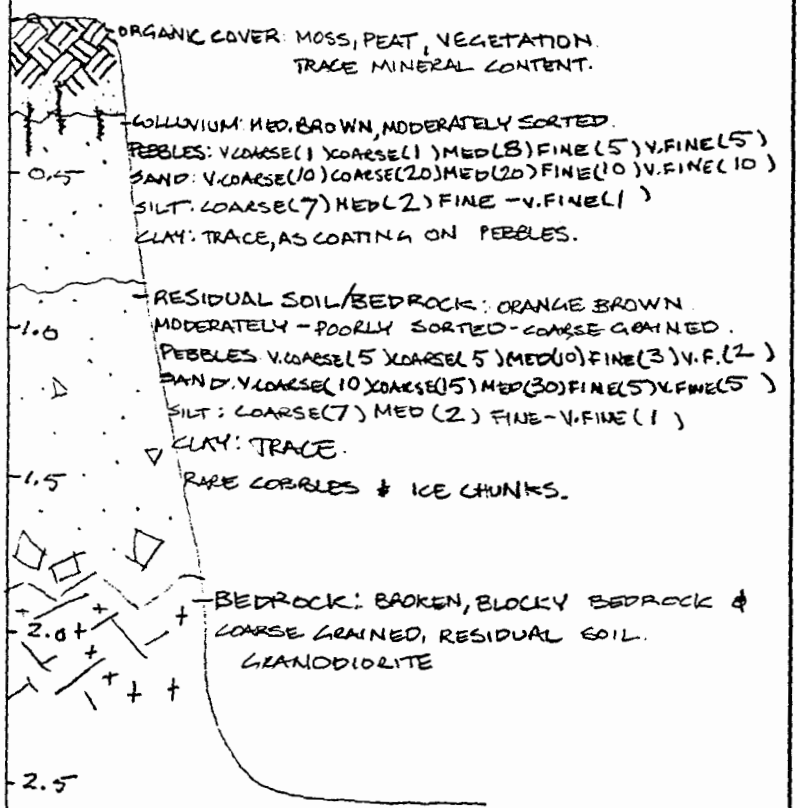
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.08	57.20
GEOTECH	27.50	2.08	57.20
ROADCONST	130.00	0.17	22.10
TRENCHING	2.00 Cu/yd		328.50
BACKFILLING	2.00 Cu/yd		328.50
TOTAL EXPENDITURES			793.50

PLAN VIEW
(SCALE: 1:250.)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: CASINO
TYPE: CREEK

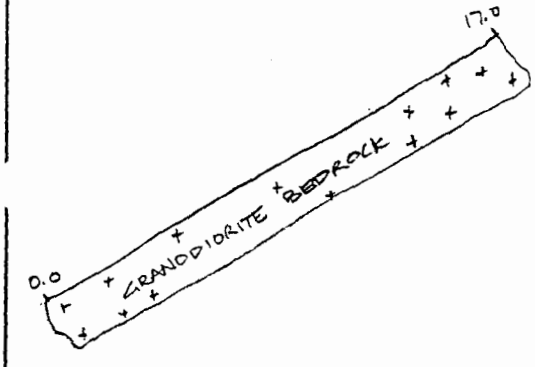
IDENTIFICATION NUMBER: TP94-19

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	2.0	m
EASTING		m	AVERAGE WIDTH	1.9	m
ELEVATION	1020	m	LENGTH	17.0	m
AZIMUTH	058	deg.	VOLUME	64.6	Cu.m
INCLINATION	17 → 225	deg.		84.5	Cu.yd

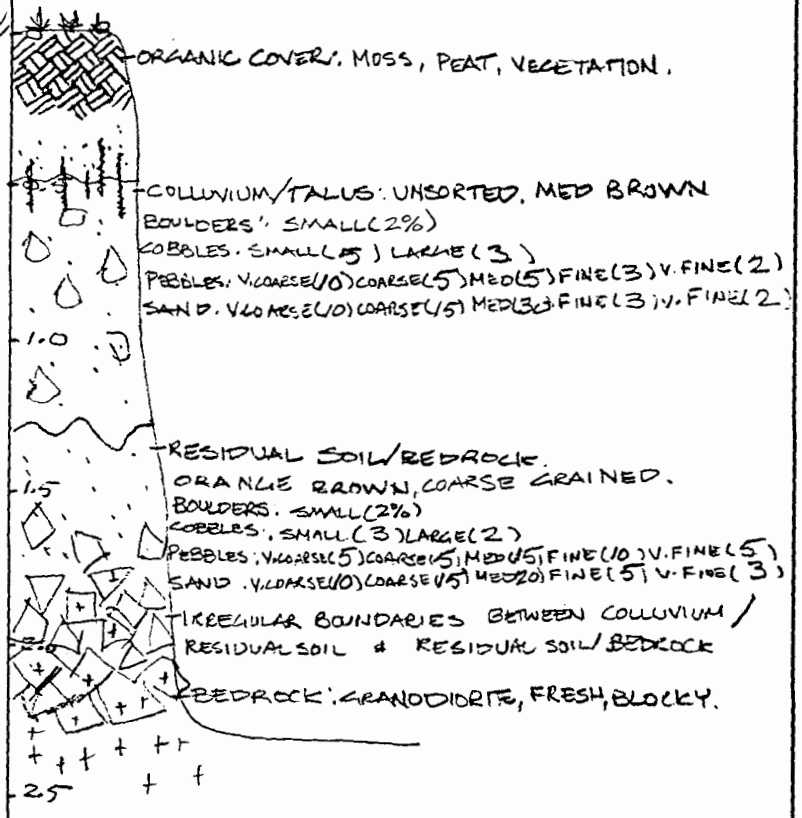
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.08	29.70
GEOTECH	27.50	1.08	29.70
ROAD CONST	130.00	0.25	32.50
TRENCHING	2.00 Cu yd		169.00
BACKFILLING	2.00 Cu yd		169.00
TOTAL EXPENDITURES			429.90

PLAN VIEW
(SCALE: 1:250.)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

IDENTIFICATION NUMBER: TP94-20

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	~1000	m
AZIMUTH	045	deg.
INCLINATION	20° → 225	deg.

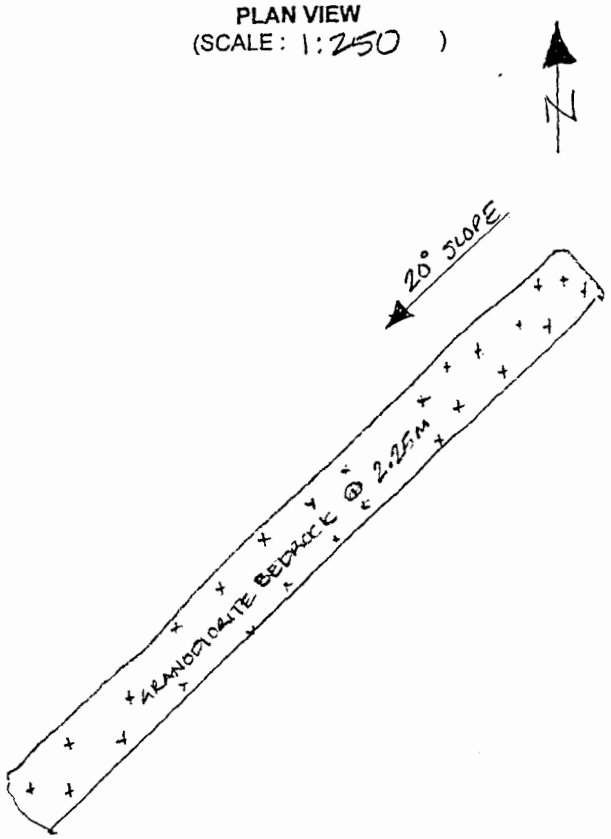
DIMENSIONS

AVERAGE DEPTH	2.5	m
AVERAGE WIDTH	2.0	m
LENGTH	25.0	m
VOLUME	125	Cu.m
	163	Cu.yd

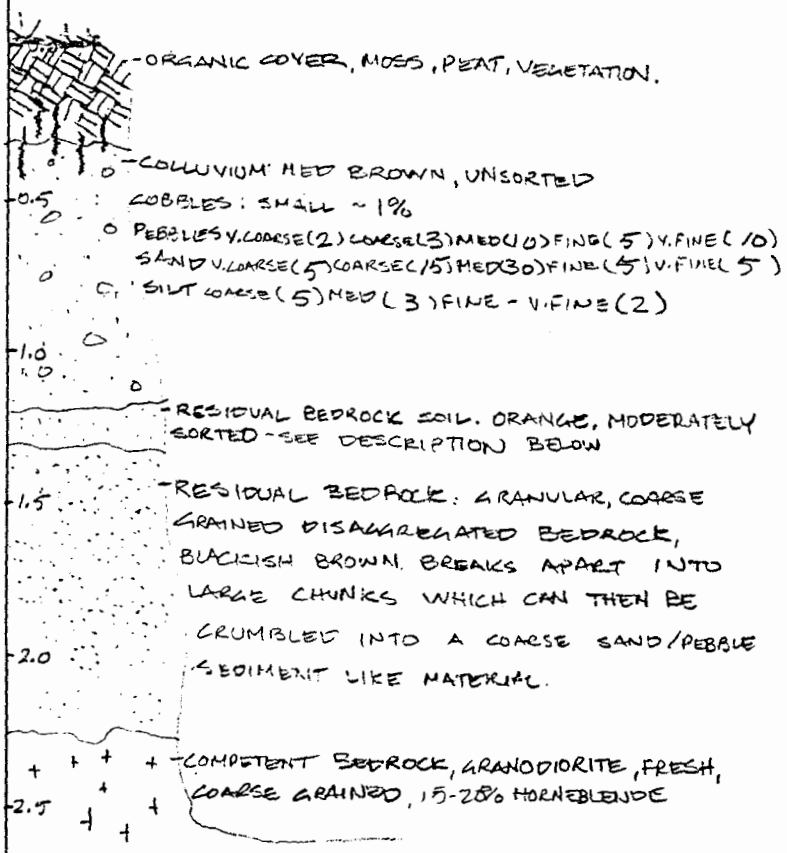
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.83	50.33
GEOTECH	27.50	1.83	50.33
ROAD CONST	130.00	0.17	22.10
TRENCHING	2.00/cu.yd		326.00
BACKFILLING	2.00/cu.yd		326.00
TOTAL EXPENDITURES			774.76

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL	TP94-20A
PLACER GRAVEL	
ROCK	

COMMENTS / DESCRIPTIONS: RESIDUAL BEDROCK SOIL:
SAND: V.COARSE(5) COARSE(5) MED(50) FINE(15) V.FINE(10)
PEBBLES: V.COARSE(2) COARSE(3) MED(5) FINE(3) V.FINE(2)

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 44
CREEK NAME: CASINO
TYPE: CREEK

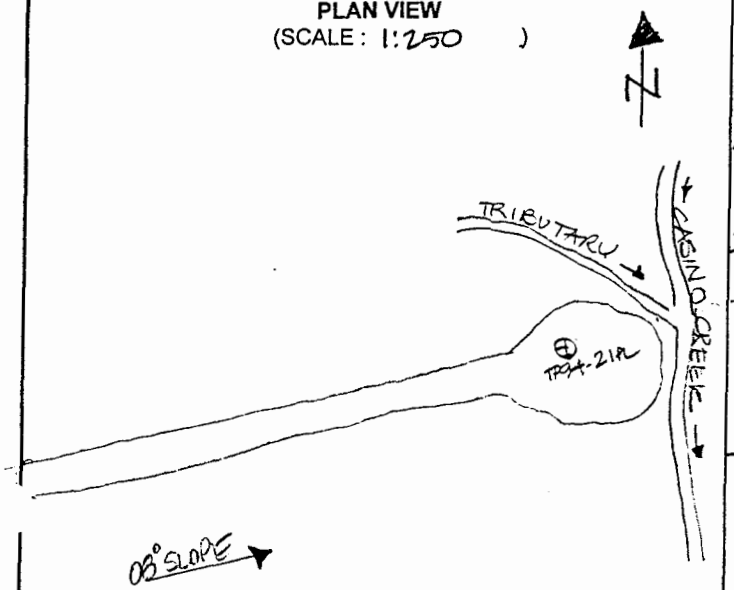
PIT IDENTIFICATION NUMBER: TP94-21

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.8	m
EASTING		m	AVERAGE WIDTH	2.0	m
ELEVATION	970	m	LENGTH	22	m
AZIMUTH	076	deg.	VOLUME	79.2	Cu.m
INCLINATION	08 → 076	deg.		103.6	Cu.yd

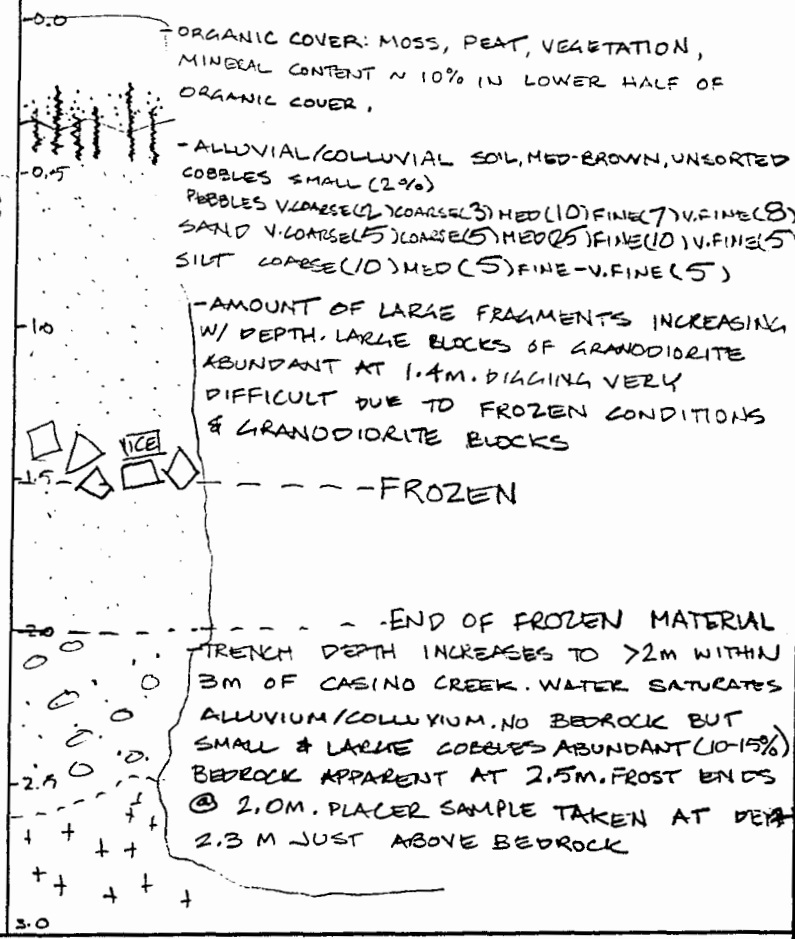
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.58	43.45
GEOTECH	27.50	1.58	43.45
ROAD CONST	130.00	0.17	22.10
TRENCHING	$2.00/cu yd		207.20
BACKFILLING	2.00/cu yd.		207.20
TOTAL EXPENDITURES			523.40

PLAN VIEW
(SCALE : 1:250)



TRENCH PROFILE
(SCALE : 1:25)



ORGANIC COVER: MOSS, PEAT, VEGETATION, MINERAL CONTENT ~ 10% IN LOWER HALF OF ORGANIC COVER.

- ALLUVIAL/COLLUVIAL SOIL, MED-BROWN, UNSORTED
COBBLES SMALL (2%)
PEBBLES V.COARSE(2) COARSE(3) MED(10) FINE(7) V.FINE(8)
SAND V.COARSE(5) COARSE(5) MED(25) FINE(10) V.FINE(5)
SILT COARSE(10) MED(5) FINE-V.FINE(5)

- AMOUNT OF LARGE FRAGMENTS INCREASING W/ DEPTH. LARGE BLOCKS OF GRANODIORITE ABUNDANT AT 1.4M. DIGGING VERY DIFFICULT DUE TO FROZEN CONDITIONS & GRANODIORITE BLOCKS

- - - - - FROZEN

- - - - - - - - - - - - END OF FROZEN MATERIAL

TRENCH DEPTH INCREASES TO >2M WITHIN 3M OF CASINO CREEK. WATER SATURATES ALLUVIUM/COLLUVIUM. NO BEDROCK BUT SMALL & LARGE COBBLES ABUNDANT (10-15%) BEDROCK APPARENT AT 2.5M. FROST ENDS @ 2.0M. PLACER SAMPLE TAKEN AT DEPTH 2.3 M JUST ABOVE BEDROCK

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL TP94-21PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASE 45
CREEK NAME: CASINO
TYPE: CREEK

PIT NTIFICATION NUMBER: TP94-22

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	1015	m
AZIMUTH	045	deg.
INCLINATION	12 → 045	deg.

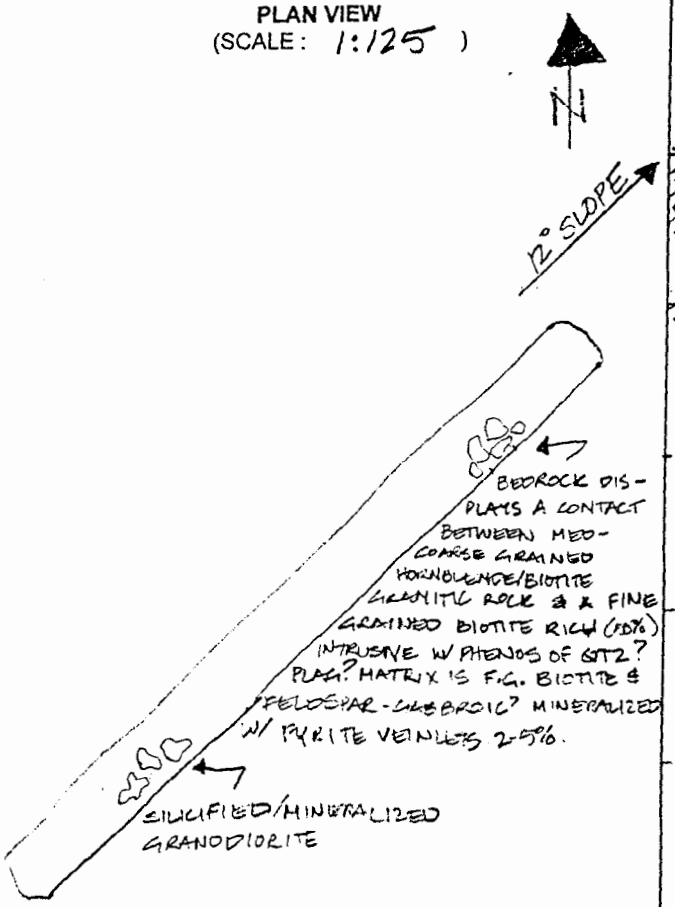
DIMENSIONS

AVERAGE DEPTH	1.4	m
AVERAGE WIDTH	2.1	m
LENGTH	12.5	m
VOLUME	36.75	Cu.m
	48.07	Cu.yd

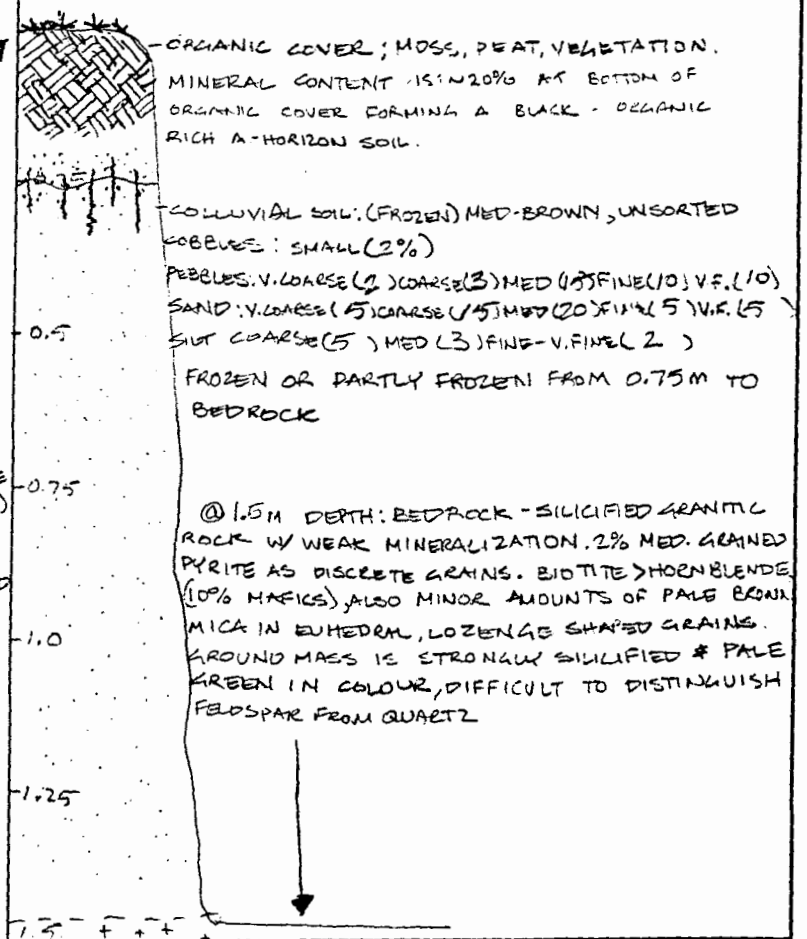
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.83	77.83
GEOTECH	27.50	2.83	77.83
ROAD CONST.	130.00	0.08	10.79
TRENCHING	2.00/Cu yd	0.75	96.14
BACKFILLING	2.00/Cu yd	0.25	96.14
TOTAL EXPENDITURES			358.73

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:12.5)



SAMPLE NUMBERS:

SOIL: TP94-22A
PLACER GRAVEL:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 45
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-23

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	1035	m
AZIMUTH	067°	deg.
INCLINATION		deg.

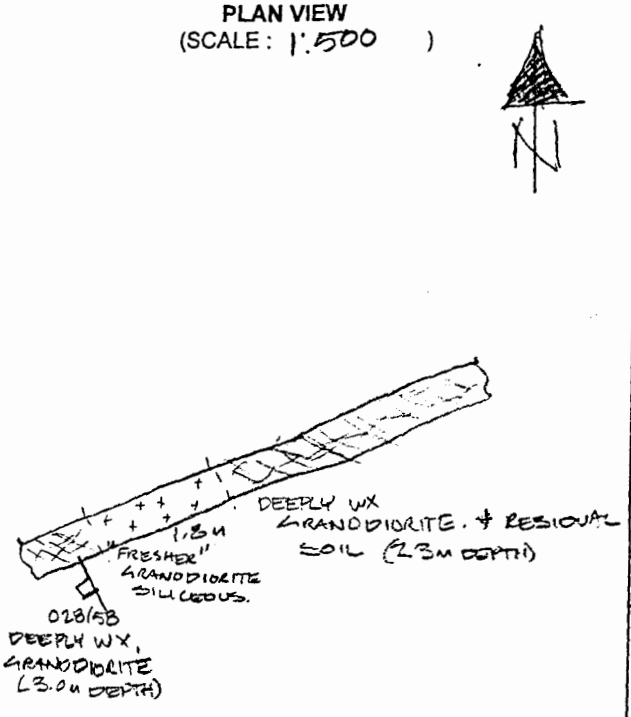
DIMENSIONS

AVERAGE DEPTH	2.2	m
AVERAGE WIDTH	2.0	m
LENGTH	22.0	m
VOLUME	140.8	Cu.m
	184.16	Cu.yd

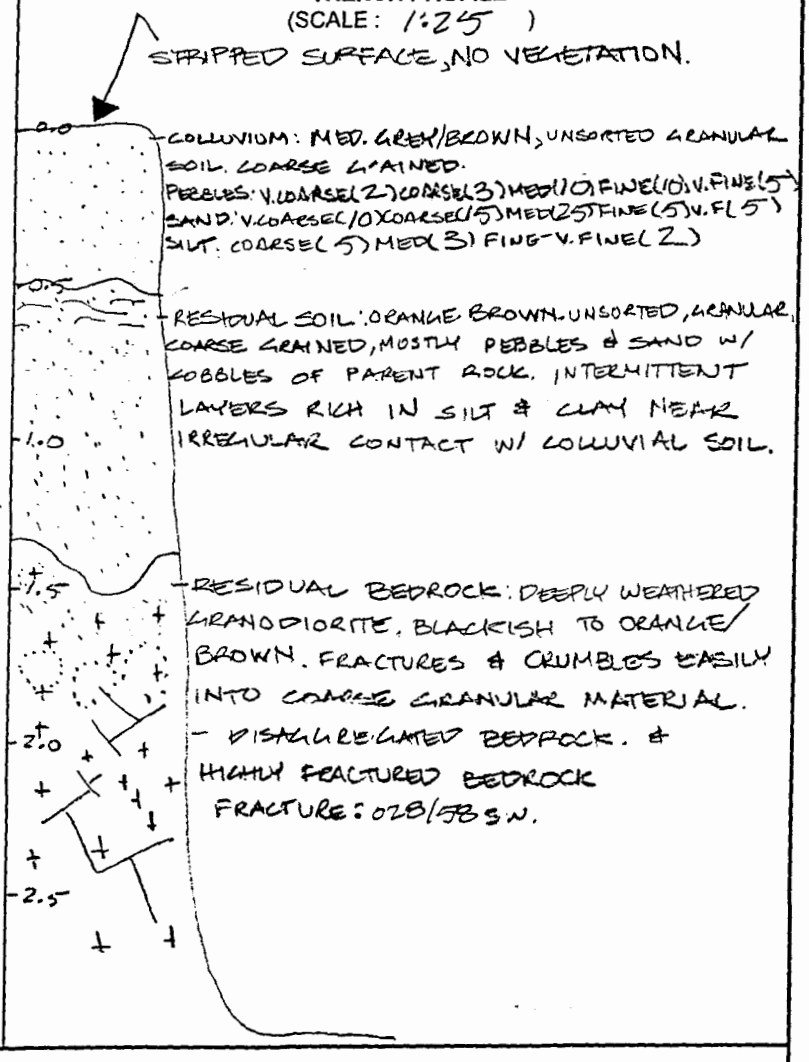
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.33	36.58
GEOTECH	27.50	1.33	36.58
ROAD CONST	130.00	0.083	10.79
TRENCHING	2.00/cu yd		368.32
BACKFILLING	2.00/cu yd		368.32
TOTAL EXPENDITURES			820.59

PLAN VIEW
(SCALE: 1:500)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL: TP94-23
PLACER GRAVEL:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

IDENTIFICATION NUMBER: TP94-24

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	980	m
AZIMUTH	097	deg.
INCLINATION	18 → 016	deg.

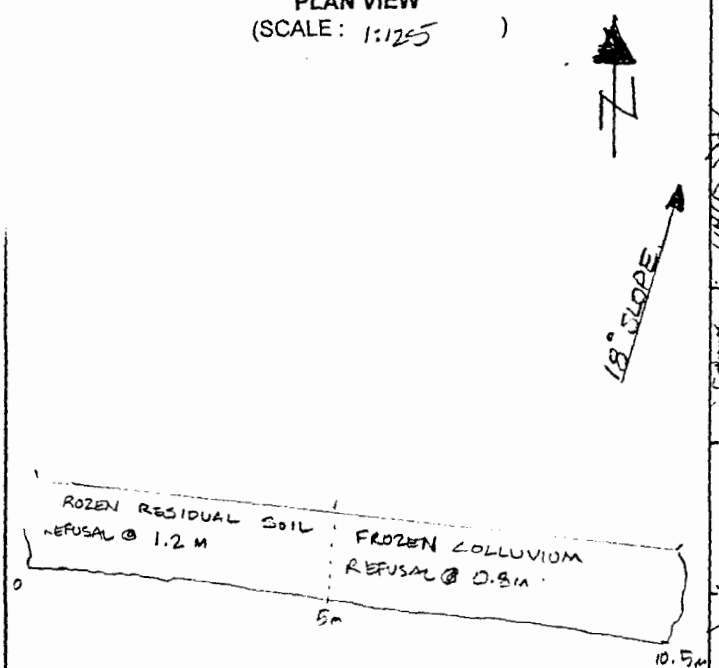
DIMENSIONS

AVERAGE DEPTH	1.05	m
AVERAGE WIDTH	1.50	m
LENGTH	10.5	m
VOLUME	16.54	Cu.m
	21.63	Cu.yd

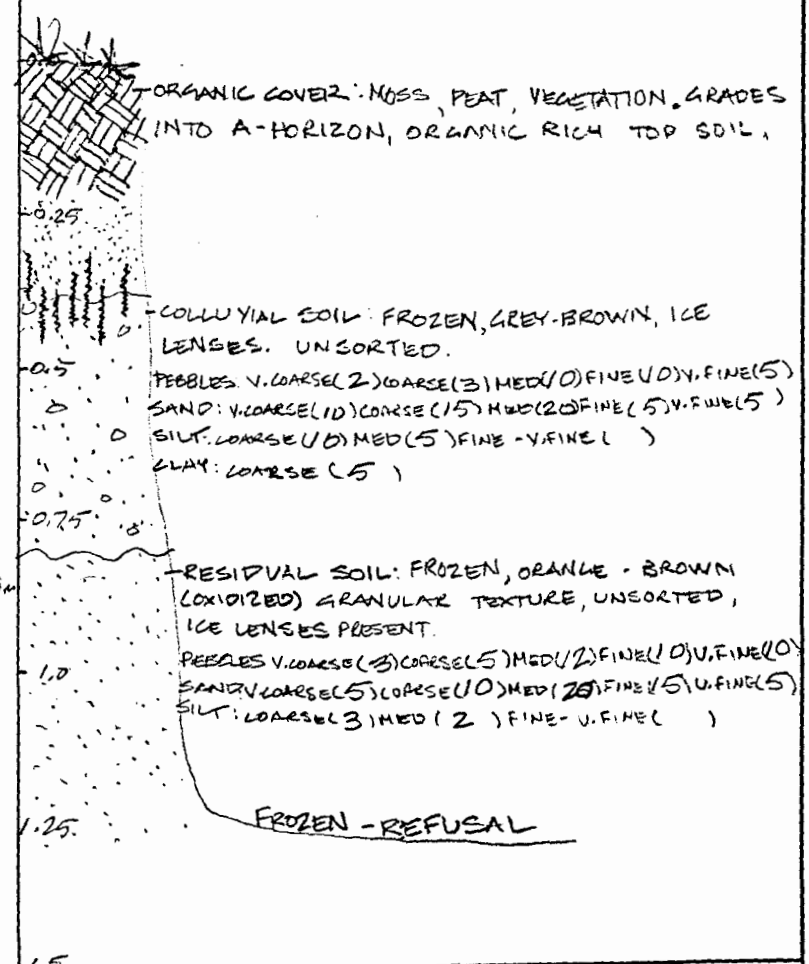
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.25	61.88
GEOTECH	27.50	2.25	61.88
ROAD CONST	100.00	6.0	600.00
TRENCHING	1.50 Cu.yd		32.45
BACKFILLING	1.50 Cu.yd		32.45
TOTAL EXPENDITURES			788.66

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:12.5)



SAMPLE NUMBERS:

SOIL: TP94-24 (RESIDUAL SOIL)
PLACER GRAVEL:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: CASINO
TYPE: CREEK

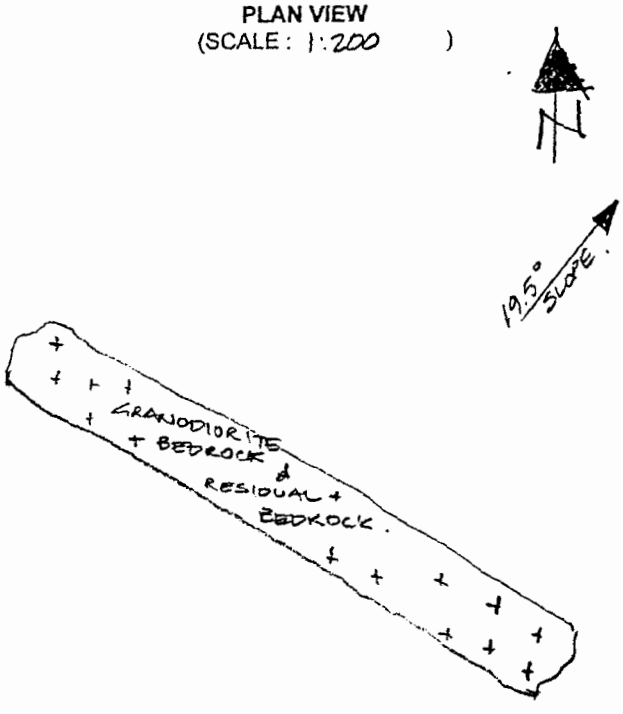
ENT. ATION NUMBER: TP94-25

KEY COORDINATES			DIMENSIONS		
HING		m	AVERAGE DEPTH	1.75	m
ING		m	AVERAGE WIDTH	2.2	m
ATION	985	m	LENGTH	16.0	m
JTH	121	deg.	VOLUME	61.6	Cu.m
INATION	19.5 → 037	deg.		80.6	Cu.yd

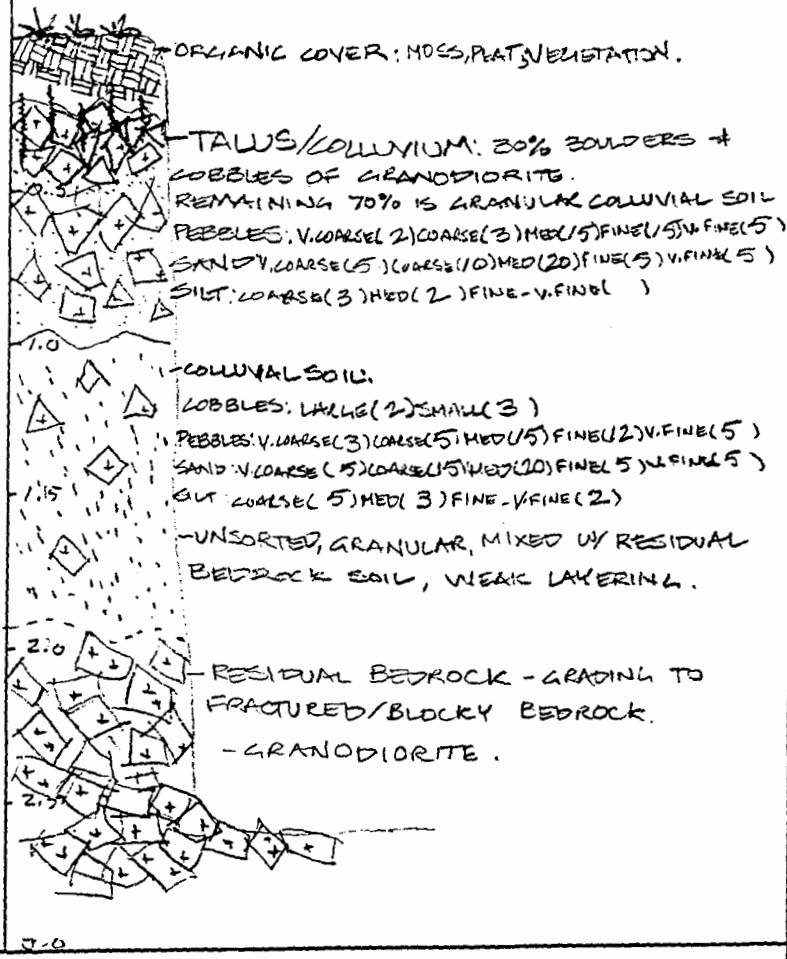
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.33	36.58
GEOTECH	27.50	1.33	36.58
ROAD CONST	130.00	0.25	32.50
TRENCHING	7.00/Cuyd		161.20
BACKFILLING	2.00/Cuyd		161.20
TOTAL EXPENDITURES			428.06

PLAN VIEW
(SCALE : 1:200)



TRENCH PROFILE
(SCALE : 1:25)



- ORGANIC COVER: MOSS, PEAT & VEGETATION.
- TALUS/COLLUVIUM: 30% BOULDERS + COBBLES OF GRANODIORITE. REMAINING 70% IS GRANULAR COLLUVIAL SOIL
  PEBBLES: V.COARSE(2) COARSE(3) MED(5) FINE(5) V.FINE(5)
  SAND: V.COARSE(5) COARSE(10) MED(20) FINE(5) V.FINE(5)
  SILT: COARSE(3) MED(2) FINE-V.FINE( )
- COLLUVIAL SOIL.
  COBBLES: LARGE(2) SMALL(3)
  PEBBLES: V.COARSE(3) COARSE(5) MED(5) FINE(2) V.FINE(5)
  SAND: V.COARSE(5) COARSE(5) MED(20) FINE(5) V.FINE(5)
  SILT: COARSE(5) MED(3) FINE-V.FINE(2)
  - UNSORTED, GRANULAR, MIXED W/ RESIDUAL BEDROCK SOIL, WEAK LAYERING.
- RESIDUAL BEDROCK - GRADING TO FRACTURED/BLOCKY BEDROCK.
  - GRANODIORITE.

SAMPLE NUMBERS:

SOIL TP94-25.
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 23.
CREEK NAME: CASINO
TYPE: CK.

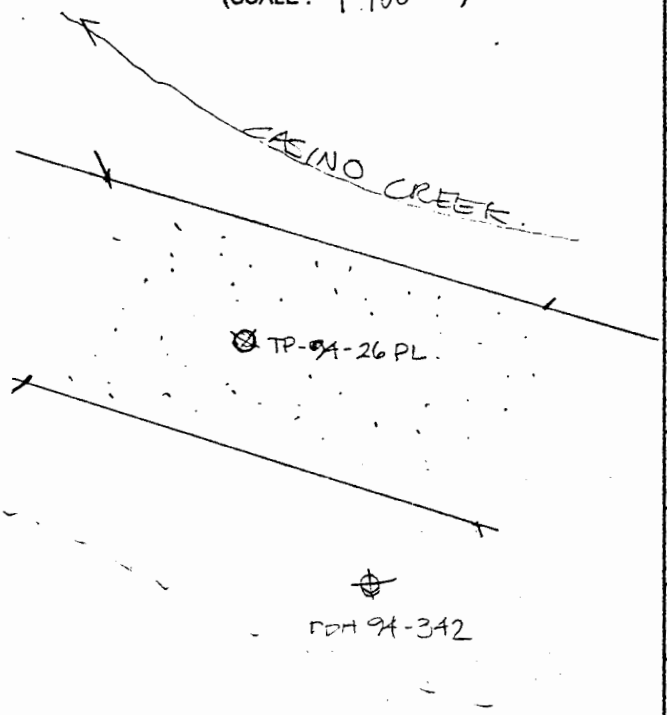
IDENTIFICATION NUMBER: TP-94-26 AUG 8/94

SURVEY COORDINATES		DIMENSIONS	
NORTHING	m	AVERAGE DEPTH	4.2 m
EASTING	m	AVERAGE WIDTH	3.0 m
ELEVATION	935 m	LENGTH	6.0 m
AZIMUTH	107° deg.	VOLUME	75.6 Cu.m
INCLINATION	03° → 134° deg.		98.88 Cu yds

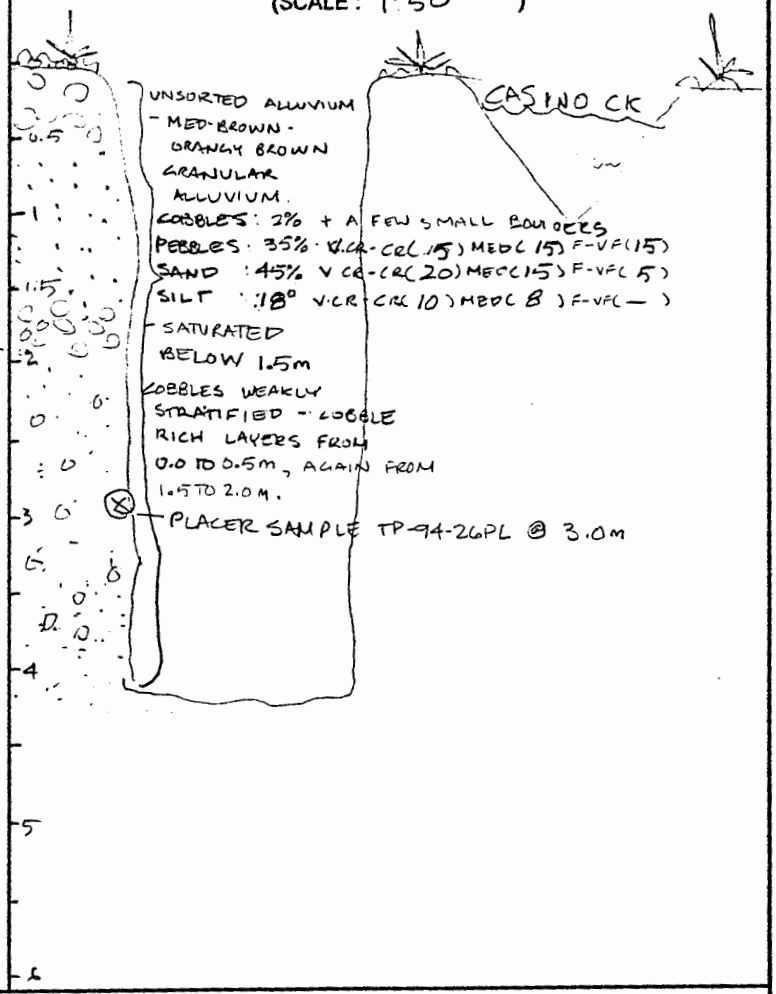
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOTECH	27.50 HR	1.25	34.38
GEOLOGY	27.50 HR	1.25	34.38
ROAD CONST.	130.00 HR	0.25	32.50
TRENCHING	$2.00 / Cu yd	0.25	197.76
BACKFILLING	$2.00 / Cu yd	0.25	197.76
TOTAL EXPENDITURES			496.78

PLAN VIEW
(SCALE : 1:100)



SOIL PROFILE
(SCALE : 1:50)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE TP94-26PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASINO
CREEK NAME: CASINO
TYPE: CREEK

PIT NTIFICATION NUMBER: TP-94-27 AVA 9/94

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	975	m
AZIMUTH	026°	deg.
INCLINATION	16° → 020°	deg.

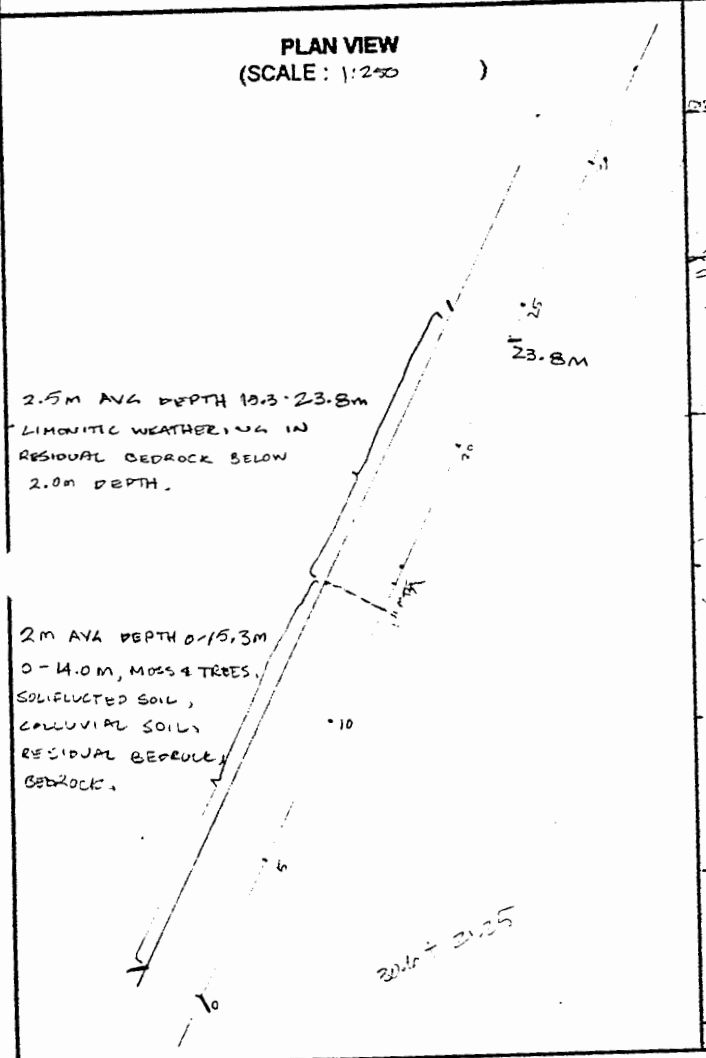
DIMENSIONS

AVERAGE DEPTH	2.2	m
AVERAGE WIDTH	2.0	m
LENGTH	23.8	m
VOLUME	104.72	Cu.m
	136.97	Cu yds

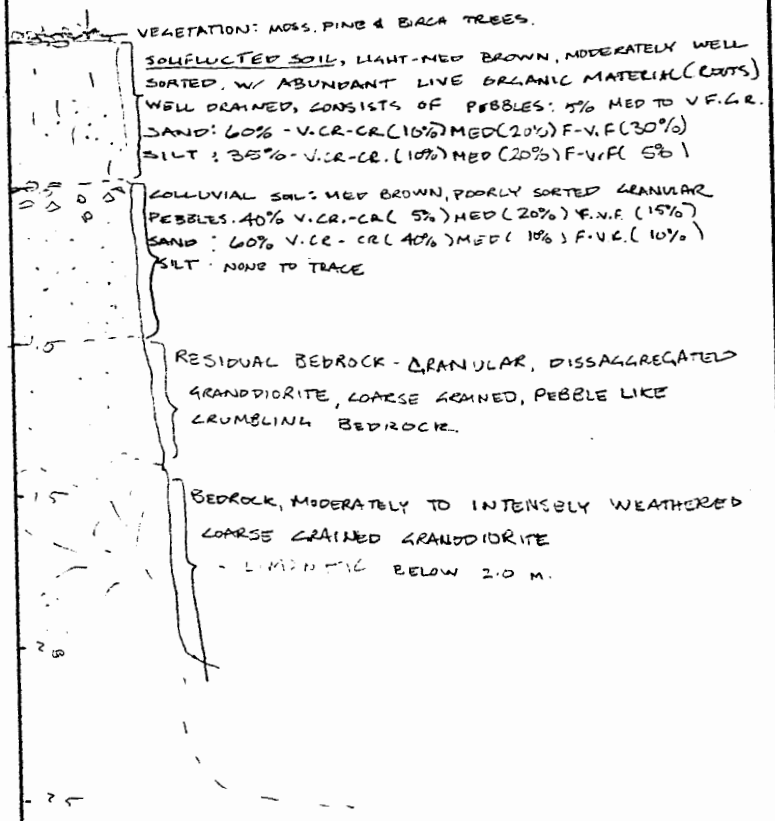
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
LETTECH	27.50/HR	2.25	61.88
GEOLOGY	27.50/HR	2.25	61.88
ROAD CONST	130.00/HR	0.083	10.79
TRENCHING	42.00/cu yd	1.25	273.94
BACKFILLING	2.00/cu. yd.	0.58	273.94
TOTAL EXPENDITURES			682.43

PLAN VIEW
(SCALE : 1:250)



SOIL PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL: TP94-27A - SOLIFLUCTED TOP SOIL TP94-27B COLLUVIUM
PAN CONCENTRATE:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT D. CRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 42
CREEK NAME: CASINO
TYPE: CREEK

IT IDENTIFICATION NUMBER: TP94-28

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	950	m
AZIMUTH	022	deg.
INCLINATION	17 → 223	deg.

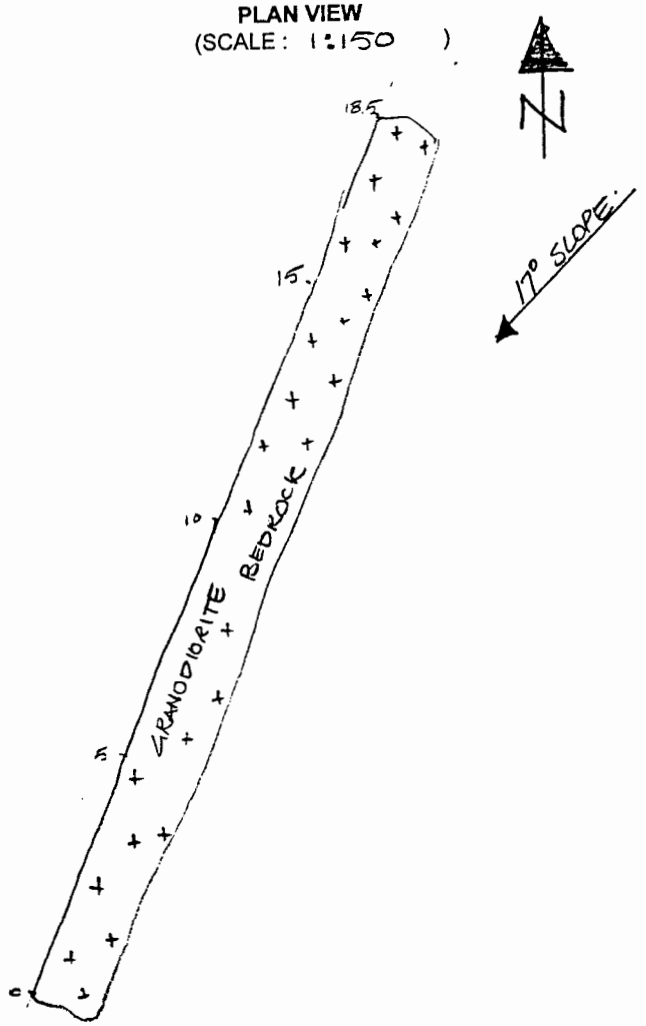
DIMENSIONS

AVERAGE DEPTH	2.0	m
AVERAGE WIDTH	1.2	m
LENGTH	18.5	m
VOLUME	44.4	Cu.m
	58.1	Cu.yd

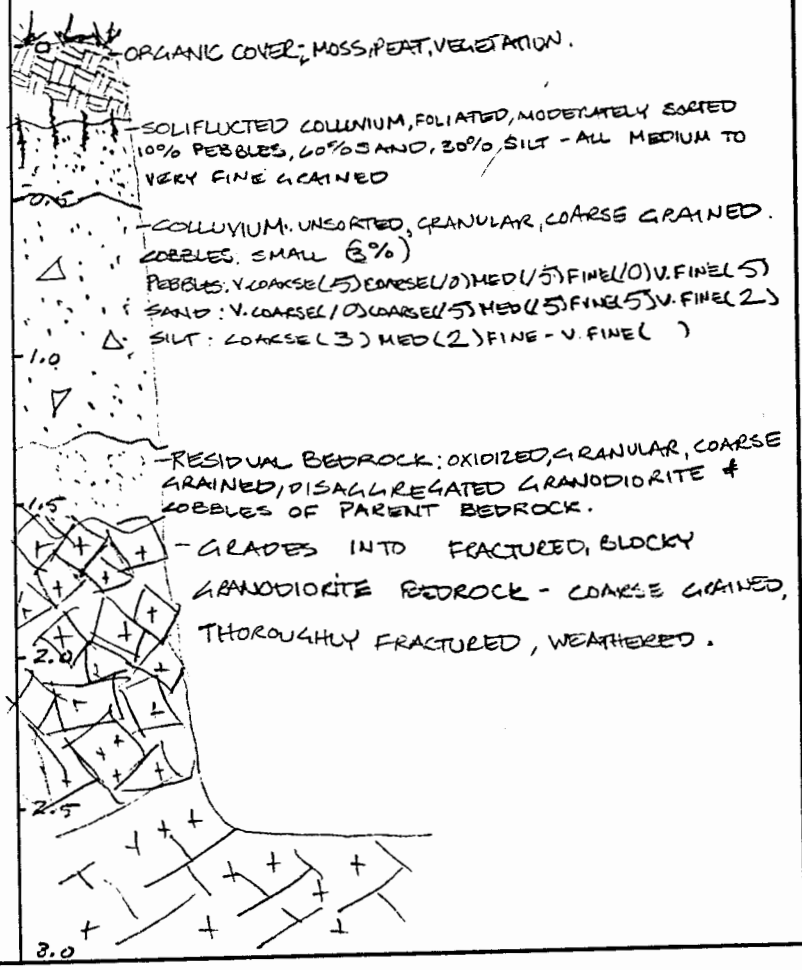
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.17	32.18
GEOTECH	27.50	1.17	32.18
ROAD CONST	130.00	0.08	10.79
TRENCHING	200/Cu yd		116.15
BACKFILLING	2.00 Cu yd		116.15
TOTAL EXPENDITURES			307.45

PLAN VIEW
(SCALE: 1:150)



TRENCH PROFILE
(SCALE: 1:25)



- ORGANIC COVER; MOSS, PEAT, VEGETATION.
- SOLIFLUCTED COLLUVIUM, FOLIATED, MODERATELY SORTED 10% PEBBLES, 60% SAND, 30% SILT - ALL MEDIUM TO VERY FINE GRAINED
- COLLUVIUM: UNSORTED, GRANULAR, COARSE GRAINED. COBBLES: SMALL (3%)
  PEBBLES: V. COARSE (5) COARSE (0) MED (5) FINE (0) V. FINE (5)
  SAND: V. COARSE (0) COARSE (5) MED (5) FINE (5) V. FINE (2)
  SILT: COARSE (3) MED (2) FINE - V. FINE ( )
- RESIDUAL BEDROCK: OXIDIZED, GRANULAR, COARSE GRAINED, DISAGGREGATED GRANODIORITE & COBBLES OF PARENT BEDROCK.
- GRADES INTO FRACTURED, BLOCKY GRANODIORITE BEDROCK - COARSE GRAINED, THOROUGHLY FRACTURED, WEATHERED.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 41
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-29

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	910	m
AZIMUTH	125	deg.
INCLINATION		deg.

DIMENSIONS

AVERAGE DEPTH	5.0	m
AVERAGE WIDTH	3.5	m
LENGTH	5.0	m
VOLUME	87.5	Cu.m
	114.5	Cu.yd

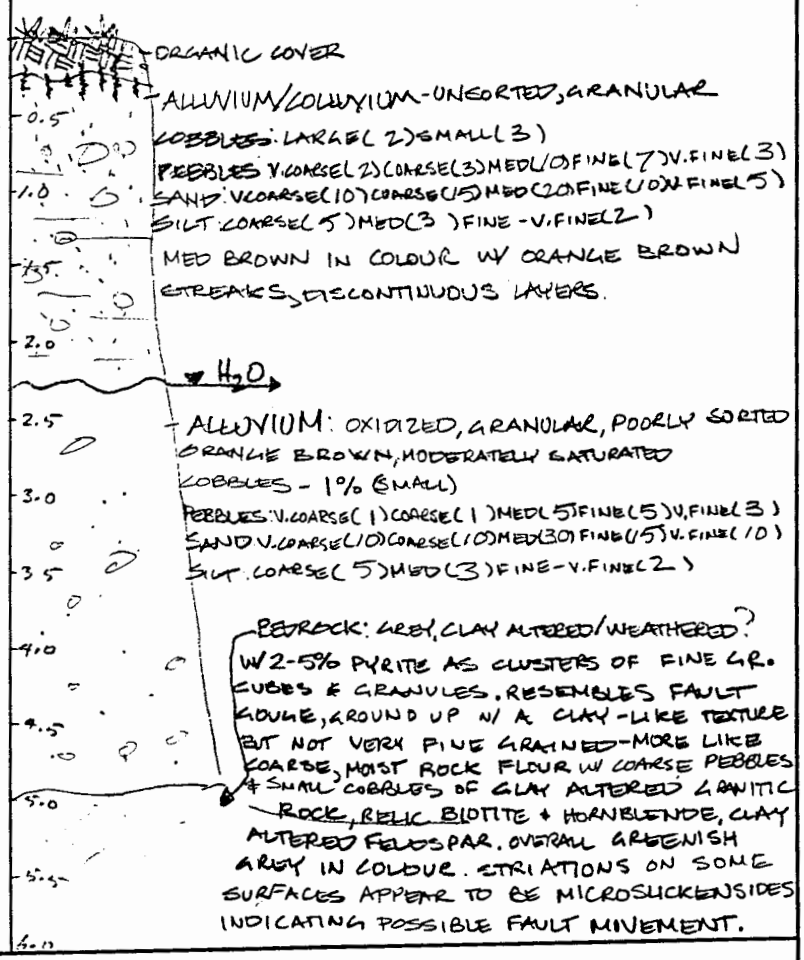
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.17	32.18
GEOTECH	27.50	1.17	32.18
ROAD CONST	130.00	0.67	87.10
TRENCHING	2.00 Cu.yd		228.89
BACKFILLING	2.00 Cu.yd		228.89
TOTAL EXPENDITURES			609.24

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP94-29PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

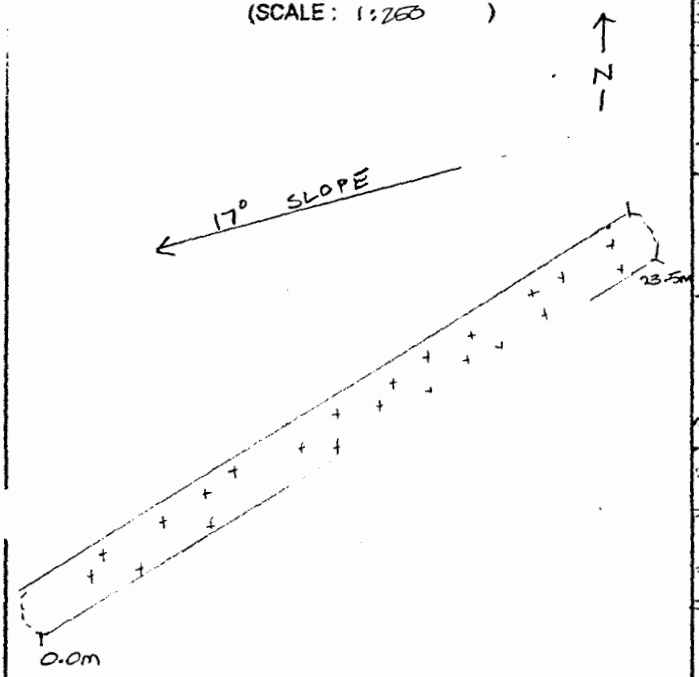
IDENTIFICATION NUMBER: TP94-30

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	2.0	m
EASTING	m	AVERAGE WIDTH	1.8	m
ELEVATION	985 m	LENGTH	23.5	m
AZIMUTH	058 deg.	VOLUME	84.6	Cu.m
INCLINATION	17°→ 255 deg.			

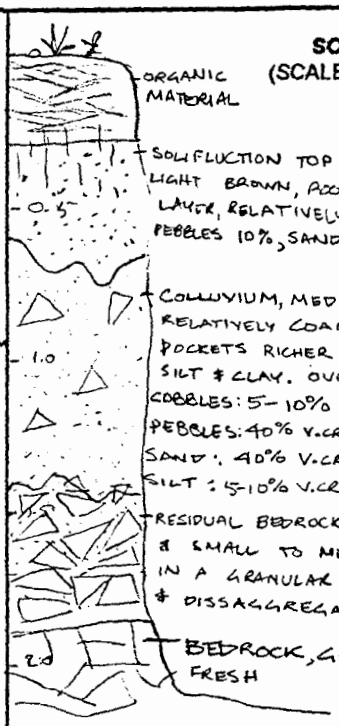
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOTECH	27.50/HR	1.17	32.18
GEOLOGY	27.50/HR	1.17	32.18
ROAD CONST	130 ^{00}/HR	0.33	42.90
TRENCHING	$2.00/cu yd	1.17	221.30
BACKFILLING	$2.00/cu yd	1.17	221.30
TOTAL EXPENDITURES			549.86

PLAN VIEW
(SCALE : 1:250)



SOIL PROFILE
(SCALE : 1:25)



ORGANIC MATERIAL

SOLIFLUCTION TOP SOIL, MODERATELY WELL SORTED, LIGHT BROWN, ROOT GROWTH EXTENDS INTO THIS LAYER, RELATIVELY FINE GRAINED
PEBBLES 10%, SAND 50%, SILT 40% (RANGE: MED TO F.GR)

COLLUVIUM, MED BROWN, UNSORTED, GRANULAR RELATIVELY COARSE GRAINED; WITH IRREGULAR POCKETS RICHER IN FINE GRAINED MATERIAL IE. SILT & CLAY. OVERALL COMPOSITION:
COBBLES: 5-10% LARGE & SMALL, CLAY 1-5% (V-CR)
PEBBLES: 40% V.CR-CR(15%) MED(20%) F-V.F(5%)
SAND: 40% V.CR-CR(20%) MED(15%) F-V.F(5%)
SILT: 5-10% V.CR.-CR(ALL) MED)F-V.F( )

RESIDUAL BEDROCK & SOIL, LARGE & SMALL COBBLES & SMALL TO MEDIUM BOULDERS OF GRANODIORITE IN A GRANULAR SOIL MATRIX OF MIXED COLLUVIUM & DISSAGGREGATED BEDROCK

BEDROCK, GRANODIORITE, COARSE GRAINED FRESH

25

2.0

SAMPLE NUMBERS:

SOIL TP94-30A (TOP SOIL) TP94 30B (COLLUVIUM) TP94 30C (RESIDUAL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PI ESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

PIT ENTIFICATION NUMBER: TP94-31

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	1000	m
AZIMUTH	101°	deg.
INCLINATION	12° - 082°	deg.

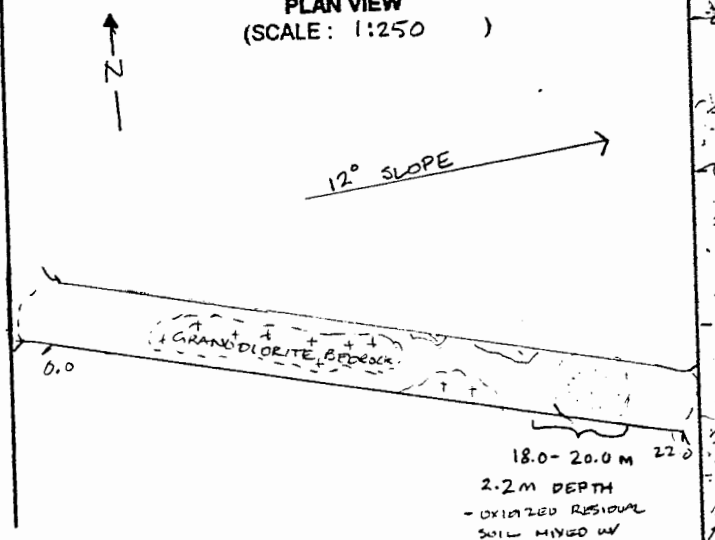
DIMENSIONS

AVERAGE DEPTH	1.75	m
AVERAGE WIDTH	2.15	m
LENGTH	22.00	m
VOLUME	82.78	Cu.m
	108.27 cu yds	

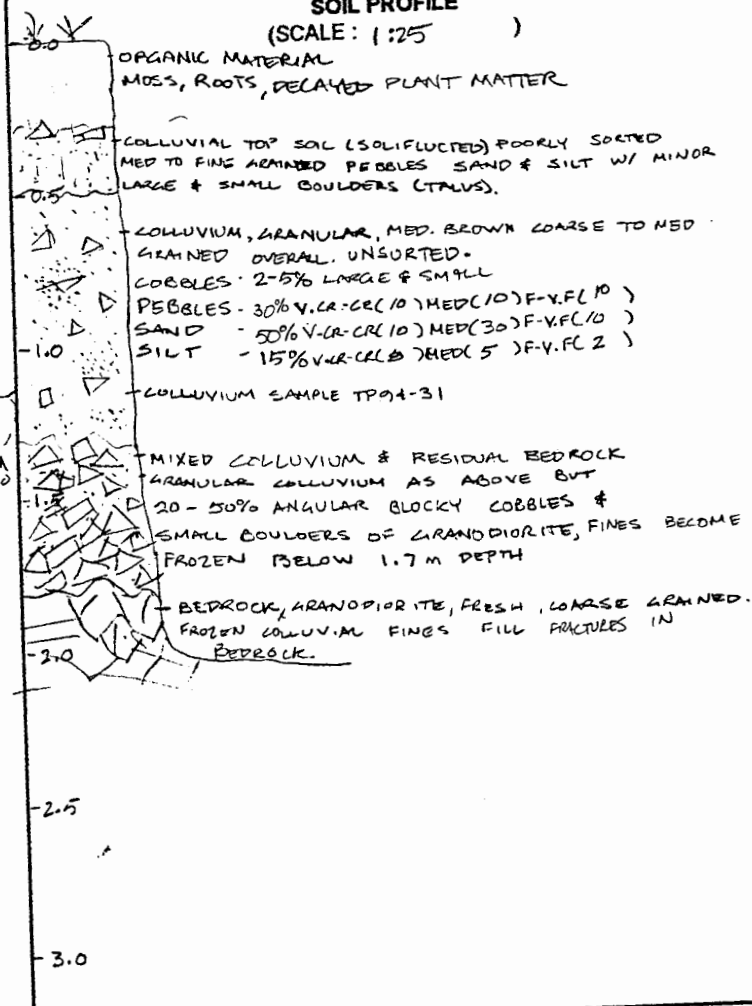
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOTECH	27.50/HR	1.75	48.13
GEOLOGY	27.50/HR	1.75	48.13
ROAD CONST	$130 INCL/HR	1.17	152.10
TRENCHING	$2.00/yd³	1.0	216.53
BACKFILLING	$2.00/yd³	0.67	216.53
TOTAL EXPENDITURES			691.42

PLAN VIEW
(SCALE : 1:250)



SOIL PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL	TP94-31 COLLUVIUM
PAN CONCENTRATE	
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 39
CREEK NAME: CASINO
TYPE: CREEK

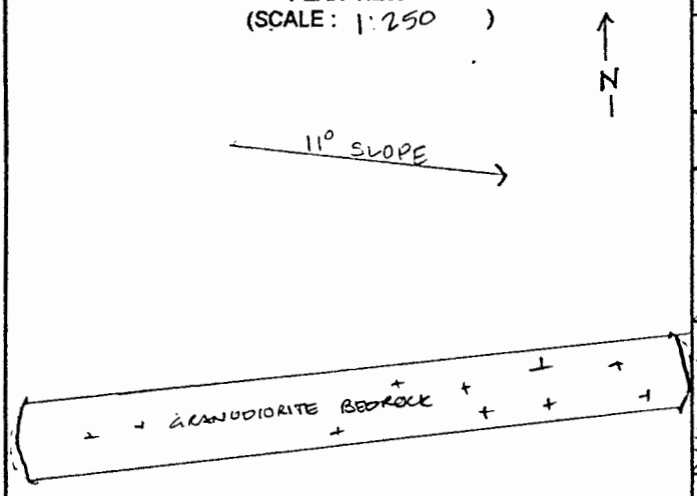
PIT IDENTIFICATION NUMBER: TP94-32

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.85	m
EASTING		m	AVERAGE WIDTH	2.50	m
ELEVATION	950	m	LENGTH	21.00	m
AZIMUTH	085°	deg.	VOLUME	97.13	Cu.m
INCLINATION	11° → 098°	deg.		127.03	cu yds

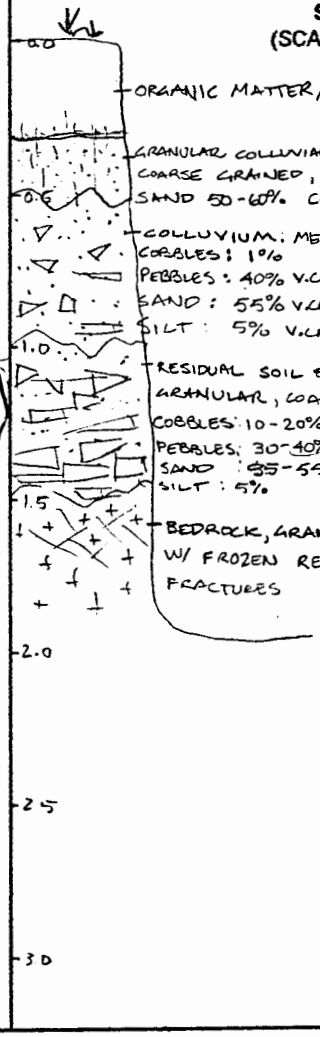
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOTECH (SITE)	27.50/HR	1.75	48.13
GEOLOGY (SITE	27.50/HR	1.75	48.13
ROAD CONST	130.00 HR	0.25	32.50
TRENCHING	$2.00/cu yd	0.75	154.06
BACKFILLING	$2.00/cu yd	0.42	254.06
TOTAL EXPENDITURES			636.88

PLAN VIEW
(SCALE : 1:250)



SOIL PROFILE
(SCALE : 1:25)



ORGANIC MATTER, MOSS, BRUSH, TREES, DECAYED MATERIAL

GRANULAR COLLUVIAL TOP SOIL - MED. GREY, UNSORTED COARSE GRAINED, ROOT PENETRATION, PEBBLES: 40% - 50% SAND 50-60% COARSE TO MED. GRAIN SIZES.

COLLUVIUM: MED. BROWN, GRANULAR UNSORTED.
COBBLES: 1%
PEBBLES: 40% V.CR-CR (5%) MED (20%) F-V.F. (15%)
SAND: 55% V.CR-CR (20) MED (20) F-V.F (15)
SILT: 5% V.CR-CR.

RESIDUAL SOIL & BEDROCK FRAGMENTS, (GRANODIORITE) GRANULAR, COARSE GRAINED FINES.
COBBLES: 10-20% SMALL ➤ LARGE
PEBBLES: 30-40% V.CR-CR (10%) MED (20%) F-V.F (10%)
SAND: 35-55% V.CR-CR (20) MED (20) F-V.F (15)
SILT: 5%

BEDROCK, GRANODIORITE, COARSE GRAINED, FRESH. W/ FROZEN RESIDUAL FINES FILLING LARGER FRACTURES

SAMPLE NUMBERS:

SOIL: RESIDUAL SOIL TP94-32
PAN CONCENTRATE:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PI[T] DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

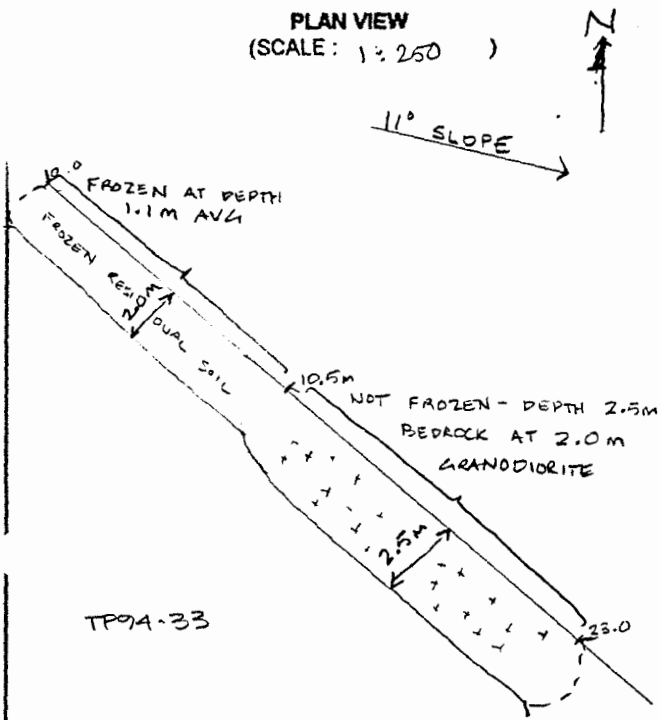
T[EST PIT] IDENTIFICATION NUMBER: TP94-33

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.86	m
EASTING		m	AVERAGE WIDTH	2.27	m
ELEVATION	1000	m	LENGTH	23.00	m
AZIMUTH	132°	deg.	VOLUME	97.11	Cu.m
INCLINATION	11° → 104°	deg.		127.02 cu yd.	

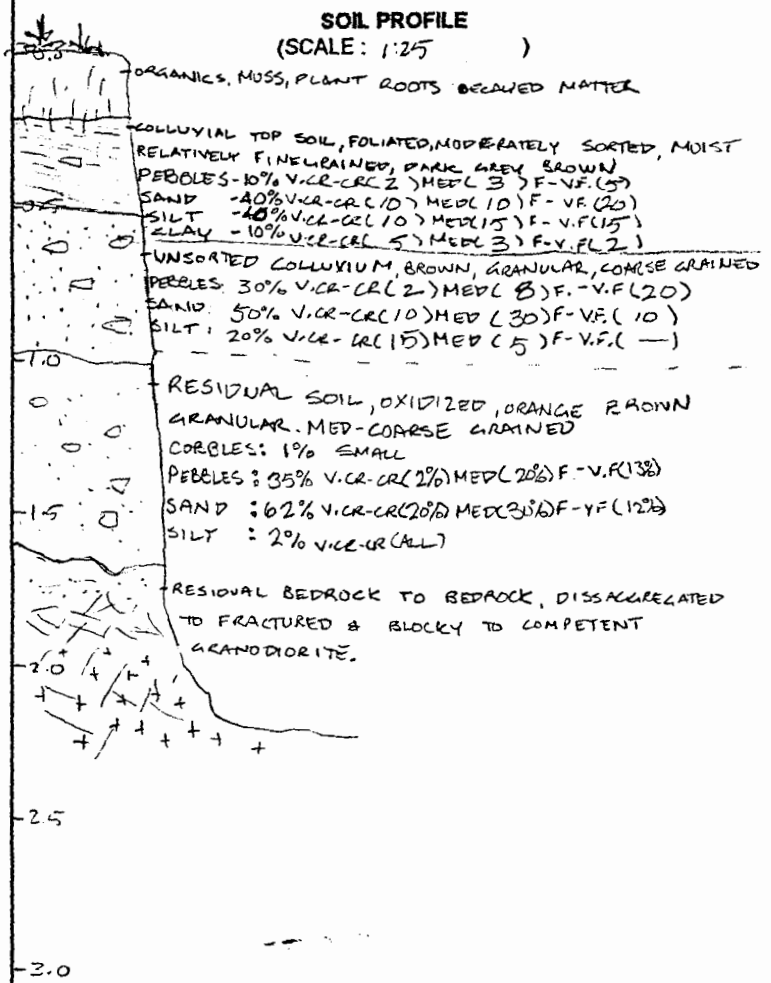
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOTECH (SITE)	27.50 HR	1.58	43.45
GEOLOGY (SITE)	27.50 HR	1.58	43.45
ROAD CONST	130.00 HR	0.42	54.60
TRENCHING	$ 2.00 cu yd	0.75	254.04
BACKFILLING	$ 2.00 cu yd	0.50	254.04
TOTAL EXPENDITURES			849.58

PLAN VIEW
(SCALE : 1 : 250)



SOIL PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL: RESIDUAL SOIL TP94-33
PAN CONCENTRATE:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PI ESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: CASINO
TYPE: CREEK

PIT NTIFICATION NUMBER: TP94-34

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	920	m
AZIMUTH	120°	deg.
INCLINATION	17.5° → 120°	deg.

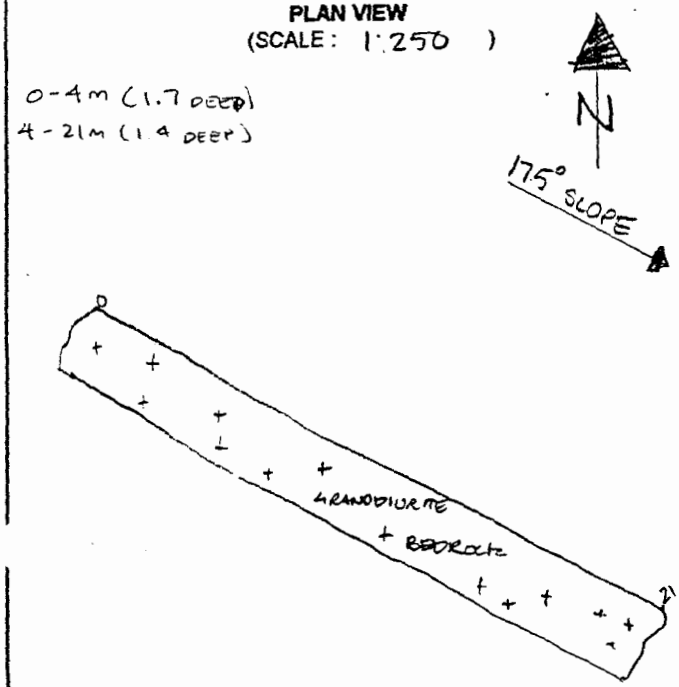
DIMENSIONS

AVERAGE DEPTH	1.46	m
AVERAGE WIDTH	2.50	m
LENGTH	21.00	m
VOLUME	24.65	Cu.m
	32.24 cu yd.	

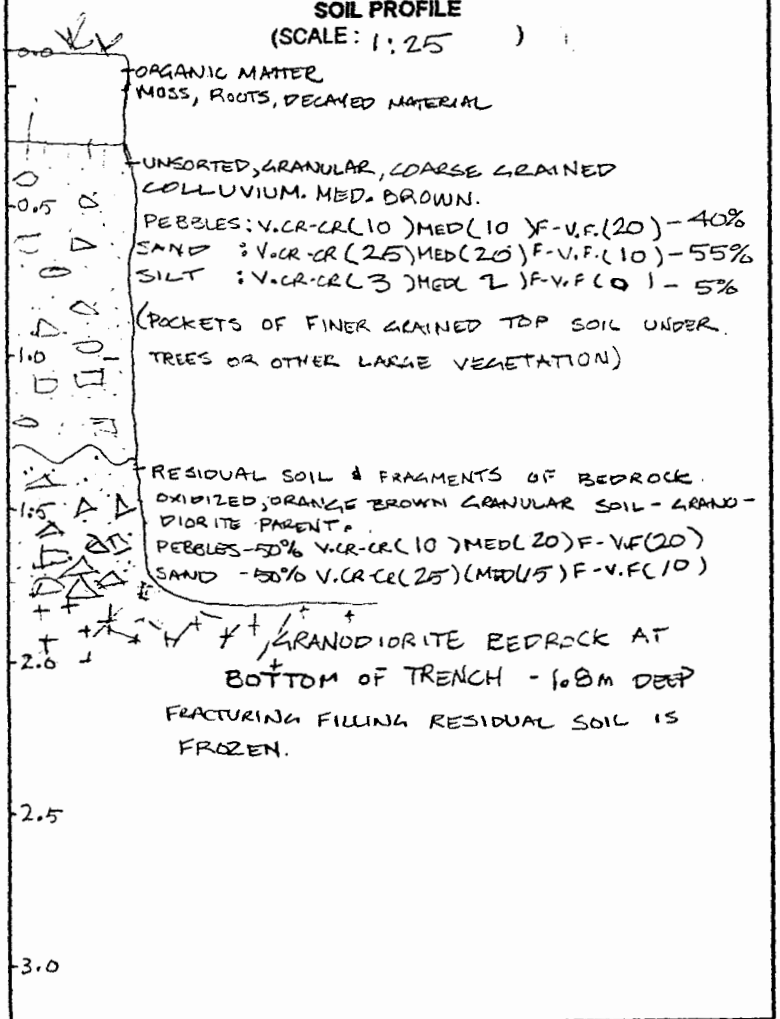
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST (SITE)	27.50	1.0	27.50
GEOTECH (SITE)	27.50	1.0	27.50
ROAD CONST.	130.00	0.42	54.60
TRENCHING	$2.00/cu yd	0.50	64.48
BACKFILLING	$2.00/cu yd		64.48
TOTAL EXPENDITURES			238.56

PLAN VIEW
(SCALE: 1:250)



SOIL PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL: TP94-34 RESIDUAL SOIL.
PAN CONCENTRATE:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PI. ESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASINO
CREEK NAME: CASINO
TYPE: CREEK

PIT NTIFICATION NUMBER: TP94-35

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	865	m
AZIMUTH	176°	deg.
INCLINATION	2° → 176°	deg.

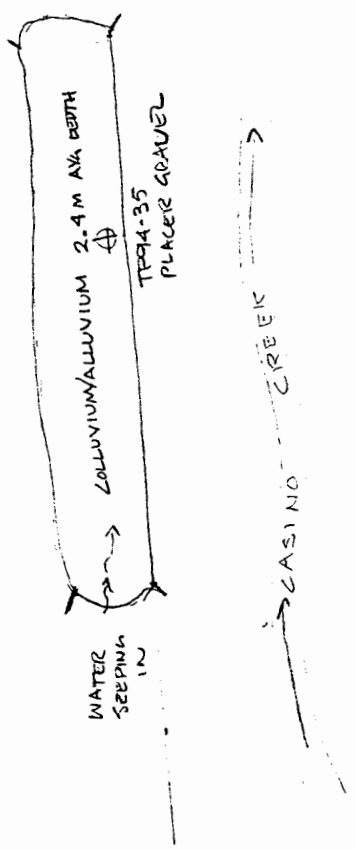
DIMENSIONS

AVERAGE DEPTH	2.4	m
AVERAGE WIDTH	2.5	m
LENGTH	18.0	m
VOLUME	108.0	Cu.m
	141.26	Cuyd.

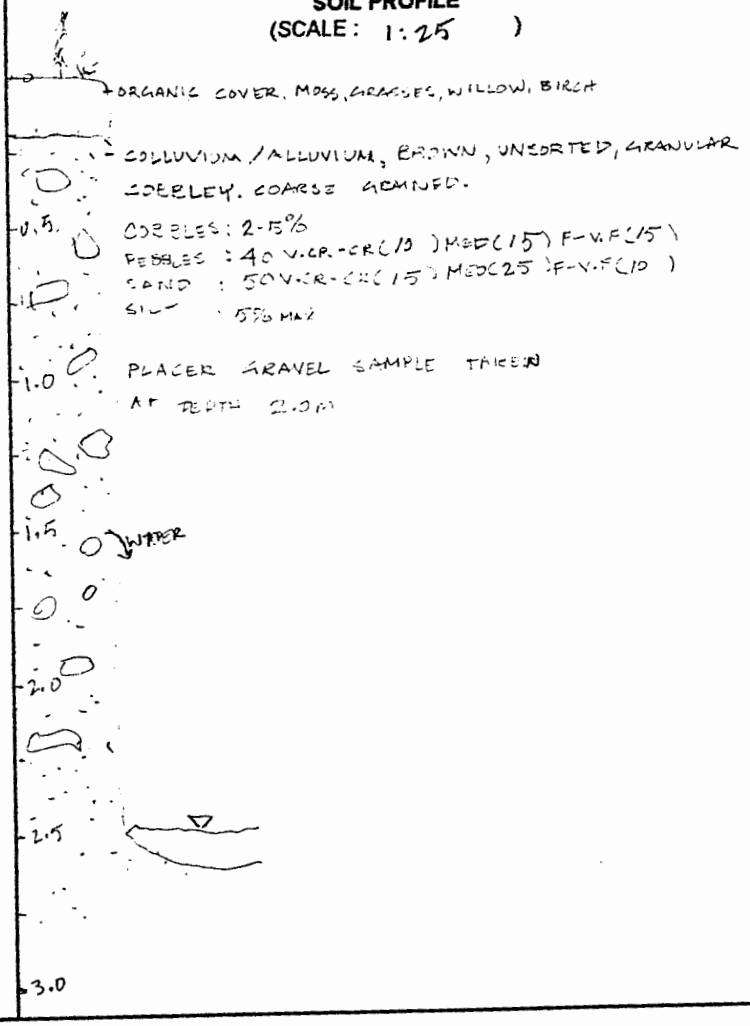
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOTECH	27.50	1.58	43.45
GEOLOGY	27.50	1.58	43.45
ROAD CONST	130.00	0.58	75.40
TRENCHING	$2.00 Cuyd	1.0	282.52
BACKFILLING	$2.00 Cu yd.	0.5	282.52
TOTAL EXPENDITURES			727.30

PLAN VIEW
(SCALE : 1 : 250)



SOIL PROFILE
(SCALE : 1 : 25)



SAMPLE NUMBERS:

	SOIL	
GRAVEL	~~PAN~~ CONCENTRATE	TP-94-35PL
	ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PI. ESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 39
CREEK NAME: CASINO
TYPE: CREEK

IT NTIFICATION NUMBER: TP94-36

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	910	m
AZIMUTH	029°	deg.
INCLINATION	15°-> 21.3°	deg.

DIMENSIONS

AVERAGE DEPTH	2.0	m
AVERAGE WIDTH	2.6	m
LENGTH	20.7	m
VOLUME	107.64	Cum
	140.79	Cu yds

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOTECH	27.50	2.0	55.00
GEOLOGIST	27.50	2.0	55.00
BOBCAT EXCAV	130 /HR	0.42	54.60
EXCAVATION	2.00/CU YD	0.85	281.50
BACKFILLING	2.00/CU YD	0.75	281.50
TOTAL EXPENDITURES			727.70

PLAN VIEW
(SCALE: 1:250)



SOIL PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL: TP94-36 COLLUVIUM LAYER BELOW TOP SOIL.
PAN CONCENTRATE:
ROCK:

COMMENTS / DESCRIPTIONS: - WEATHER BANDING IN THE COLLUVIUM CAUSES DIFFERENT COLORED LAYERS

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

IDENTIFICATION NUMBER: TP94-37

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	950	m
AZIMUTH	110°	deg.
INCLINATION	22° → 282	deg.

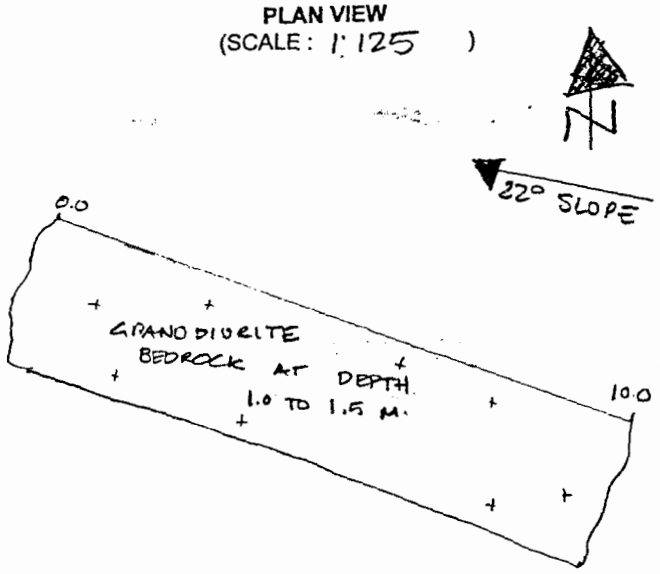
DIMENSIONS

AVERAGE DEPTH	1.3	m
AVERAGE WIDTH	2.5	m
LENGTH	10.0	m
VOLUME	32.5	Cu.m
	42.51	Cu.yd

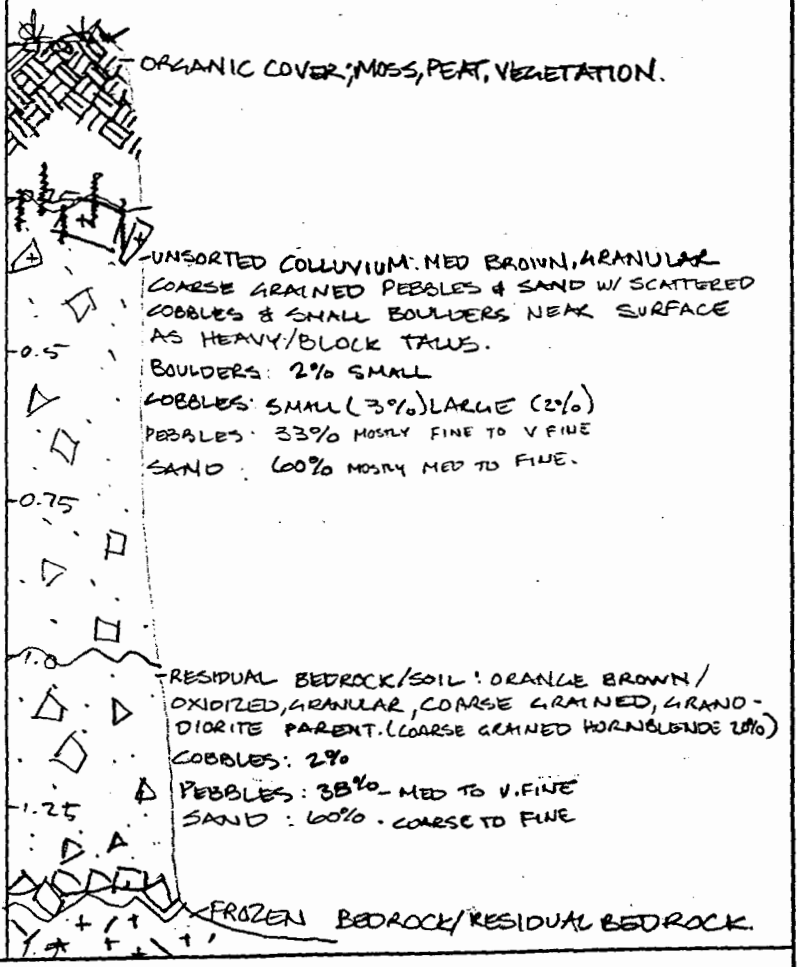
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST	130.00	1.0	130.00
TRENCHING	2.00 Cu yd		85.02
BACKFILLING	2.00 Cu yd		85.02
TOTAL EXPENDITURES			355.04

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:12.5)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-38

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	925	m
AZIMUTH	304	deg.
INCLINATION	17→292	deg.

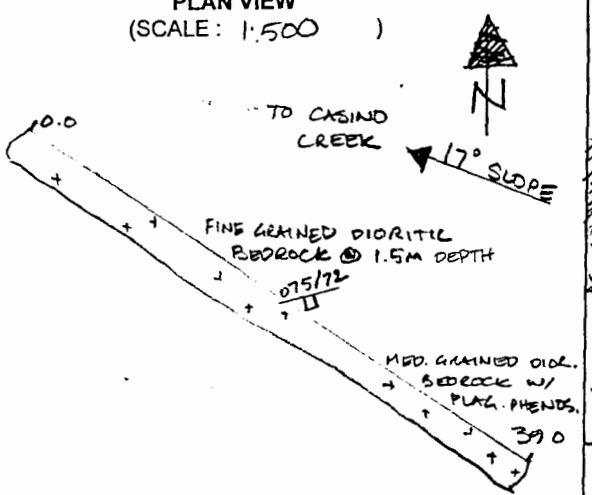
DIMENSIONS

AVERAGE DEPTH	1.5	m
AVERAGE WIDTH	2.0	m
LENGTH	39.0	m
VOLUME	117.0	Cu.m
	153.03	Cu.yd

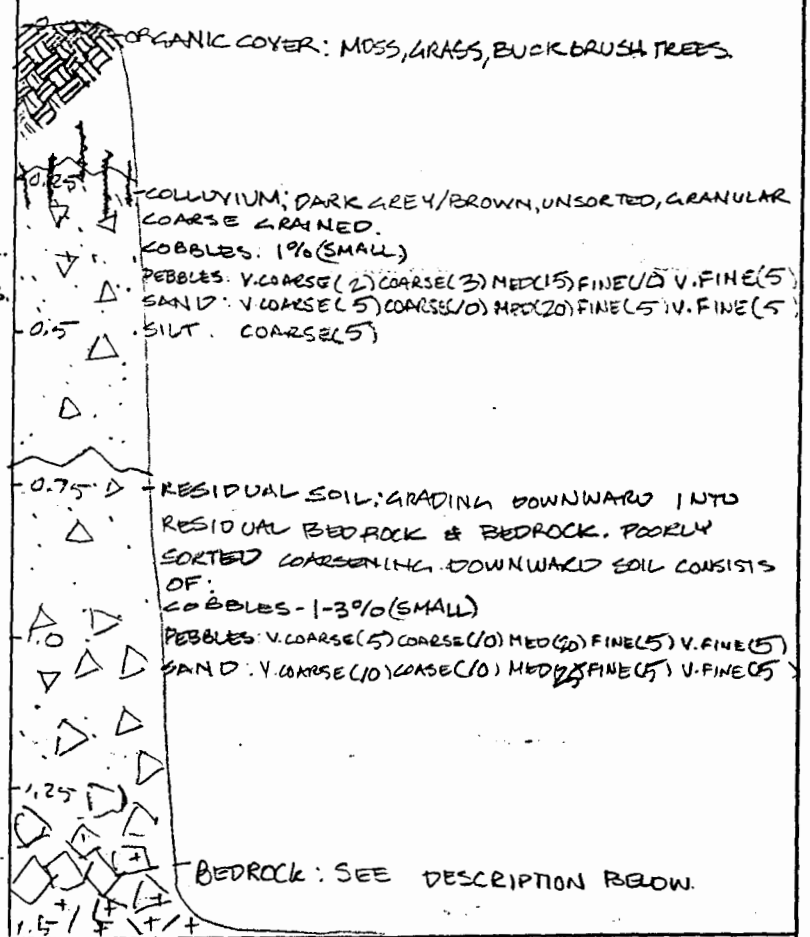
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.17	59.68
GEOTECH	27.50	2.17	59.68
ROAD CONST	130.00	0.08	10.79
TRENCHING	2.00 Cu yd		306.06
BACKFILLING	2.00 Cu yd		306.06
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:500)



TRENCH PROFILE
(SCALE: 1:12.5)



SAMPLE NUMBERS:

SOIL: TP94-38 RESIDUAL SOIL
PLACER GRAVEL:
ROCK:

COMMENTS / DESCRIPTIONS: BEDROCK: STRONGLY FRACTURED, FALLING APART READILY ALONG FRACTURE PLANES (075/72SW). ROCK IS A FINE GRAINED GRANITIC INTRUSIVE W/ A CRYSTALLINE GROUNDMASS OF FELDSPAR & QUARTZ W/ FINE GRAINED WEAKLY FOLIATED BIOTITE, BIOTITE ALSO OCCURS AS PHENOCRYSTS UP TO 2MM DIAM. QUARTZ ALSO OCCURS AS PHENOCRYSTS 0.5-2MM DIAM. SPOTTY LIMONITIC WEATHERING (NOT PERVASIVE)

FELDSPAR 80% (PLAG?)
QUARTZ 10%
BIOTITE 10% - FINE GRAINED DIORITIC INTRUSIVE

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK.

PIT IDENTIFICATION NUMBER: TP94-39

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	845	m
AZIMUTH	173	deg.
INCLINATION	5° → 180	deg.

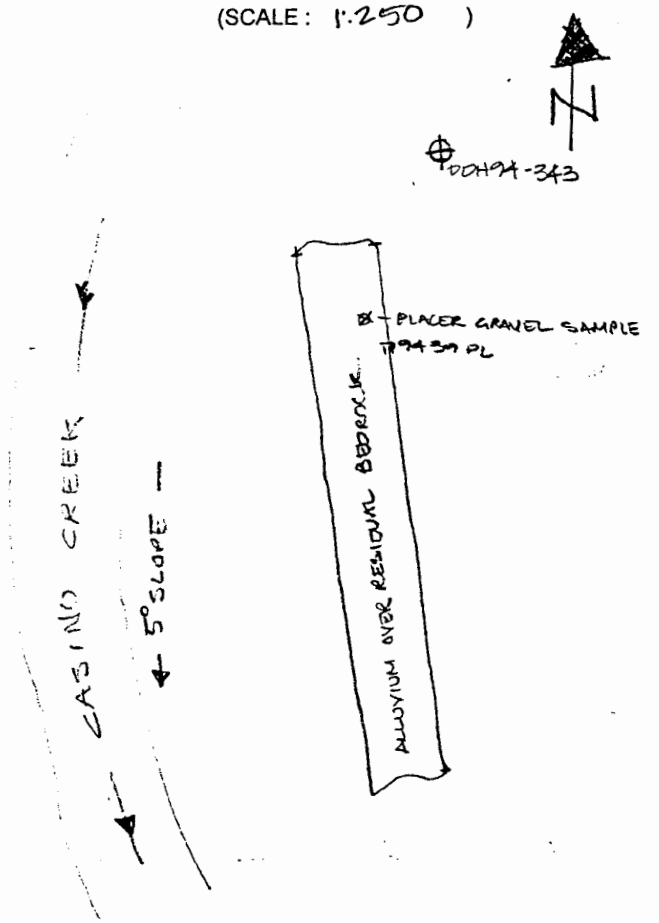
DIMENSIONS

AVERAGE DEPTH	3.0	m
AVERAGE WIDTH	2.5	m
LENGTH	17.6	m
VOLUME	132.0	Cu.m
	172.65	Cu.yd

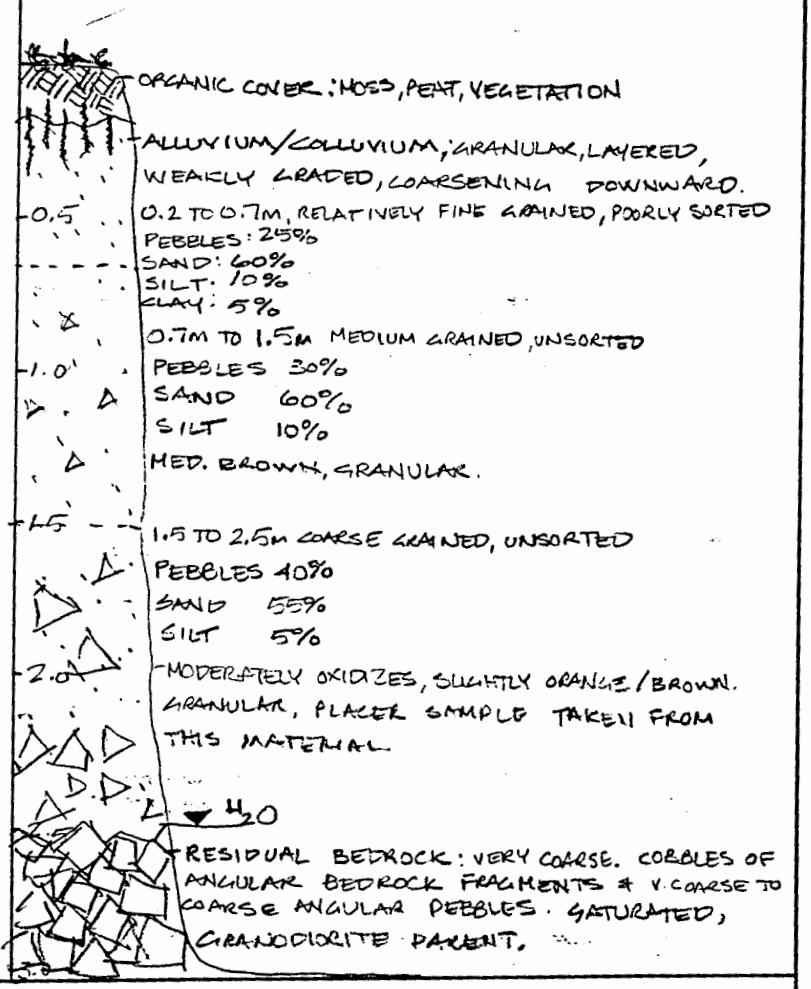
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.67	45.93
GEOTECH	27.50	1.67	45.93
ROAD CONST	130.00	0.08	10.79
TRENCHING	2.00 Cuyd		345.30
BACKFILLING	2.00 Cuyd		345.30
TOTAL EXPENDITURES			793.25

PLAN VIEW
(SCALE : 1:250)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL TP94-39PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

IDENTIFICATION NUMBER: TP94-40

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	840	m
AZIMUTH	180	deg.
INCLINATION	05 → 180	deg.

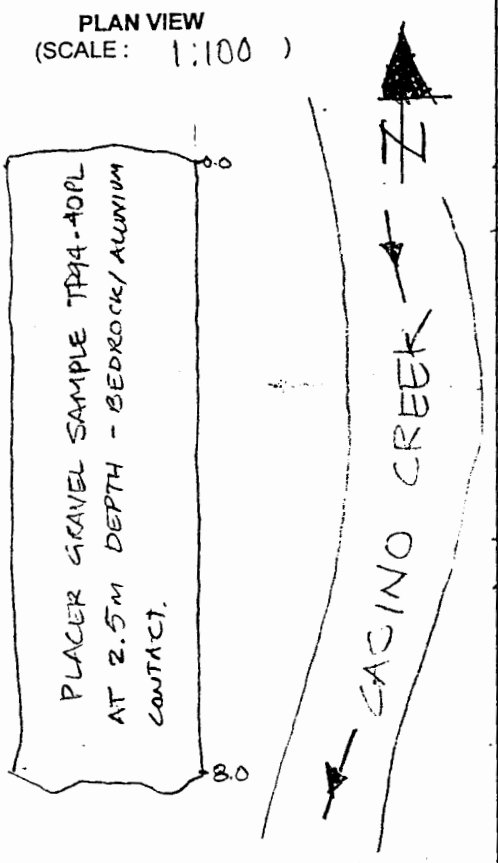
DIMENSIONS

AVERAGE DEPTH	3.5	m
AVERAGE WIDTH	2.5	m
LENGTH	8.0	m
VOLUME	70.0	Cu.m
	91.56	Cu.yd

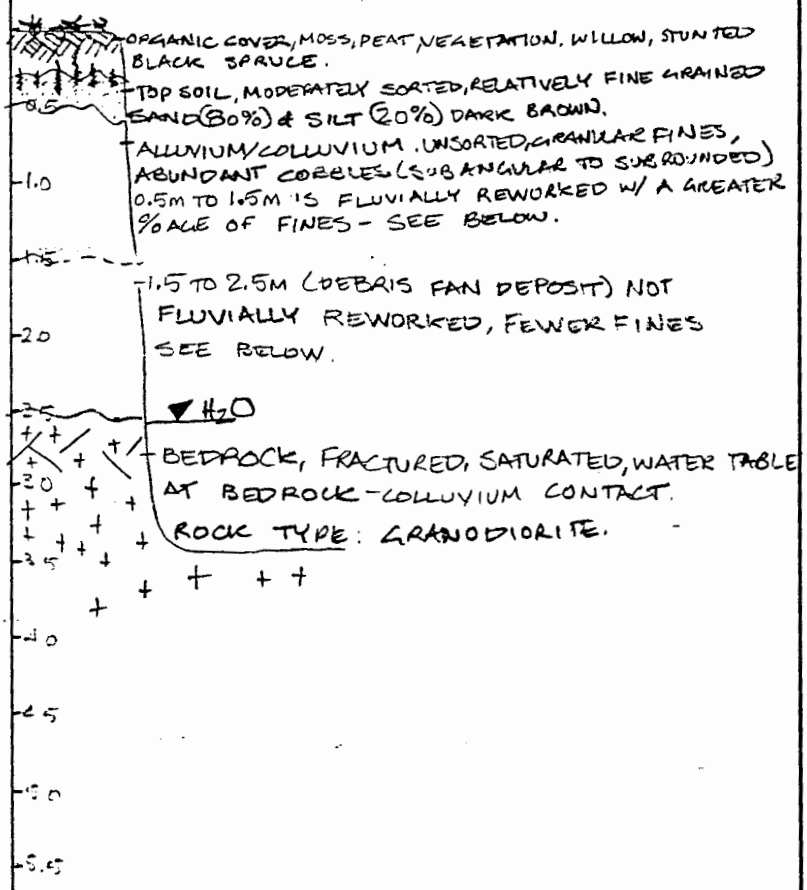
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.08	29.78
GEOTECH (x2)	27.50	1.08	59.57
ROAD CONST	130.00	0.08	10.79
TRENCHING	2.00 Cu/yd		183.12
BACKFILLING	2.00 Cu/yd		183.12
TOTAL EXPENDITURES			466.38

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP94-40PL
ROCK

COMMENTS / DESCRIPTIONS:

0.5M - 1.5M COBBLES: 4%
PEBBLES: V.COARSE(4) COARSE(6) MED(10) FINE(5) V.FINE(5)
SAND: V.COARSE(15) COARSE(17) MED(20) FINE(5) V FINE(5)
SILT: COARSE(5)

1.5 - 2.5M COBBLES: 4%
PEBBLES: V.COARSE(5) COARSE(10) MED(15) FINE(5) V.FINE(5)
SAND: V.COARSE(10) COARSE(16) MED(20) FINE(5) V.FINE(5)

PLACER TEST PIT SCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP04-41

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	900	m
AZIMUTH	127	deg.
INCLINATION	14° → 307	deg.

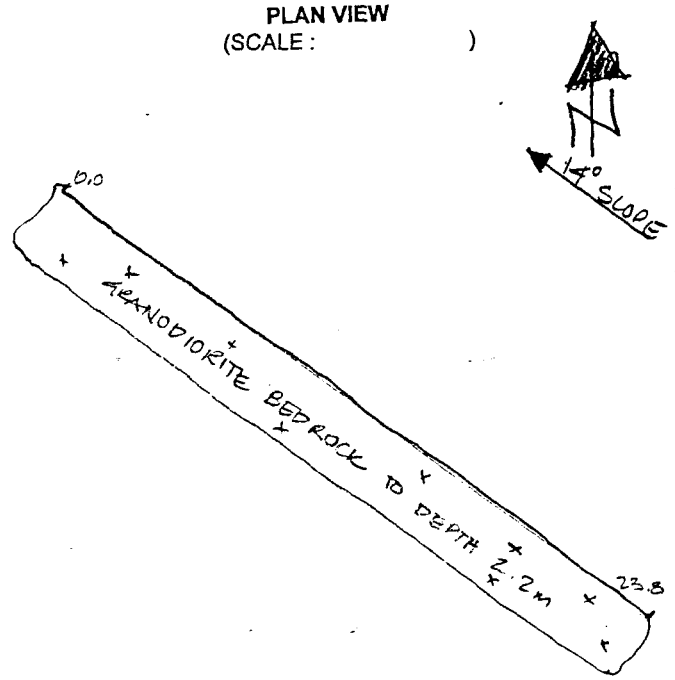
DIMENSIONS

AVERAGE DEPTH	1.8	m
AVERAGE WIDTH	2.2	m
LENGTH	23.8	m
VOLUME	94.23	Cu.m
	123.27	Cu.yd

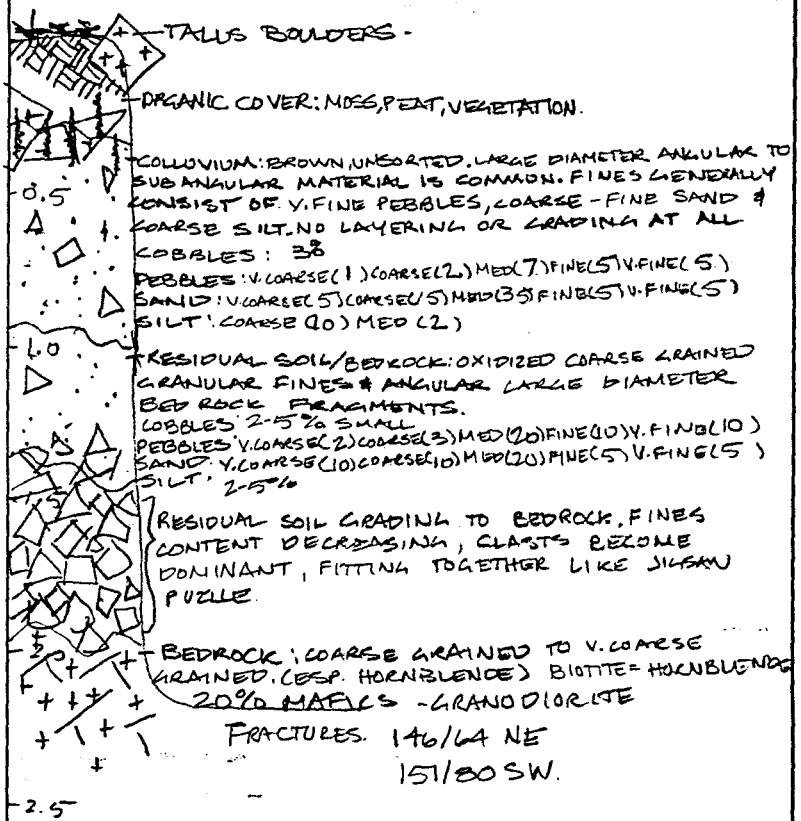
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.17	59.68
GEOTECH (& 2)	27.50	2.17	119.35
ROAD CONST	130.00	1.75	227.50
TRENCHING	2.00 Cu/yd		246.54
BACKFILLING	2.00 Cu/yd		246.54
TOTAL EXPENDITURES			899.61

PLAN VIEW
(SCALE:)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL	TP04-41 RESIDUAL
PLACER GRAVEL	
ROCK	

COMMENTS / DESCRIPTIONS: TWO ENGINEERS PRESENT AT SKENNA SITE

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-42

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	865	m
AZIMUTH	114	deg.
INCLINATION	13° → 105	deg.

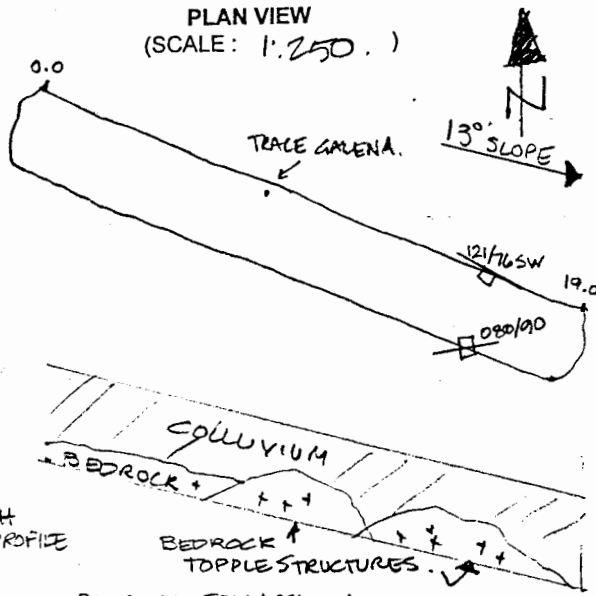
DIMENSIONS

AVERAGE DEPTH	3.0	m
AVERAGE WIDTH	2.5	m
LENGTH	19.0	m
VOLUME	142.5	Cu.m
	186.38	Cu.yd

EXPENDITURES

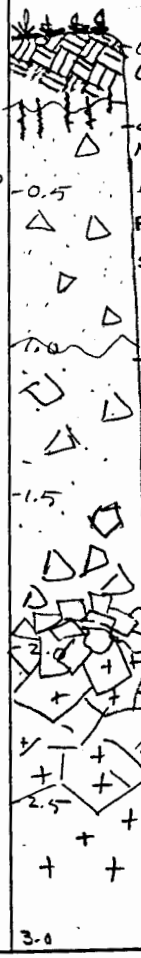
TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.5	68.75
GEOTECH	27.50	2.5	68.75
ROAD CONST.	130.00	0.83	107.90
TRENCHING	2.00 cu/yd		372.76
BACKFILLING	2.00 Cu.yd		372.76
TOTAL EXPENDITURES			990.92

PLAN VIEW
(SCALE: 1:250.)



-BEDROCK COLLAPSES & FALLS DOWNSLOPE GIVING THE APPEARANCE OF FOLD-LIKE STRUCTURES.

TRENCH PROFILE
(SCALE: 1:25)



- ORGANIC COVER, MOSS, PEAT, VEGETATION (BLACK SPRUCE)
- COLLUVIUM: MED BROWN, GRANULAR FINES, LARGE DIAM. MATERIAL COMMON - UNSORTED
  COBBLES: 5% SMALL.
  PEBBLES: V.COARSE(5) COARSE(5) MED(15) FINE(5) V. FINE(0)
  SAND V.COARSE(5) COARSE(10) MED(25) FINE(8) V. FINE(7)
  SILT: 5% - COARSE
- OXIDIZED COLLUVIUM/RESIDUAL SOIL, ORANGE BROWN TO LIGHT ORANGE BROWN, GRANULAR FINES, ANGULAR CLASTS OF BEDROCK COMMON & INCREASING IN ABUNDANCE W/ DEPTH.
  COBBLES: 2% - 10% SMALL
  PEBBLES: V.COARSE(5) COARSE(5) MED(20) FINE(5) V.FINE(5)
  SAND V. COARSE(5) COARSE(10) MED(20) FINE(8) V.FINE(7)
  SILT: 5% - TRACE, COARSE
- RESIDUAL BEDROCK - FRACTURED, BLOCKY, ANGULAR ROCK FRAGMENTS W/ RESIDUAL FINES FILLING FRACTURES, 10-15% SILT/SAND FINES 85-90% ROCK FRAGMENTS.
- BEDROCK: MED TO COARSE GRAINED GRANITIC INTRUSIVE EQUIGRANULAR MAFICS ~10% (BIOTITE > HNBLDE) QUARTZ - 10-15%, FELDSPAR MOSTLY PLAG MINOR KSPAR: DIORITE TO GRANODIORITE.

SAMPLE NUMBERS:

SOIL	TP94-42 - COLLUVIUM
PLACER GRAVEL	
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DE RIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 28
CREEK NAME: CASINO
TYPE: CREEK

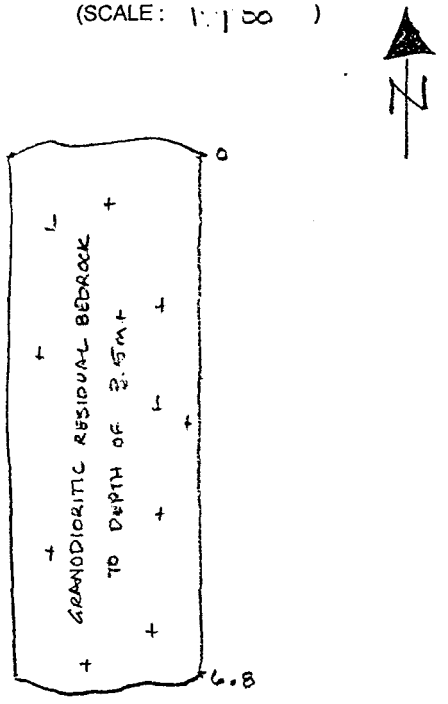
PIT IDENTIFICATION NUMBER: TP94-43

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	3.5	m
EASTING		m	AVERAGE WIDTH	2.5	m
ELEVATION	815	m	LENGTH	6.8	m
AZIMUTH	180°	deg.	VOLUME	59.5	Cu.m
INCLINATION		deg.		77.82	Cu.yd

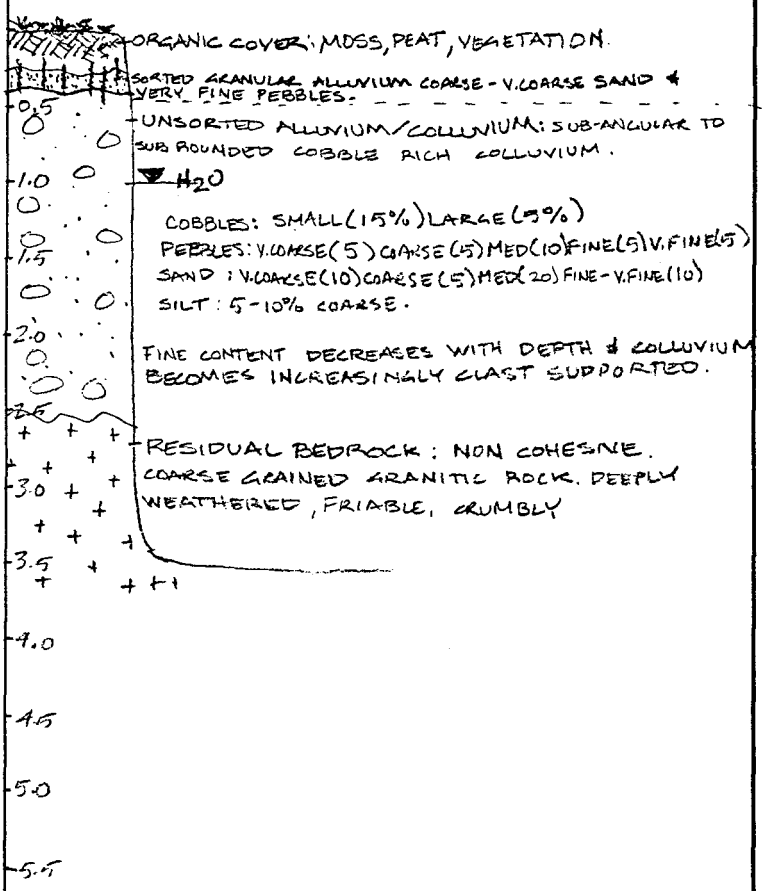
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.5	41.25
GEOTECH	27.50	1.5	41.25
ROAD CONST	130.00	0.25	32.50
TRENCHING	2.00 Cu/yd		155.65
BACKFILLING	2.00 Cu/yd		155.65
TOTAL EXPENDITURES			426.30

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESC. TION
CASINO PROPERTY

CLAIM NAME.: CASE 25
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-44

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.0	m
EASTING		m	AVERAGE WIDTH	2.3	m
ELEVATION	840	m	LENGTH	9.0	m
AZIMUTH	100°	deg.	VOLUME	20.7	Cu.m
INCLINATION	11°	deg.		27.07	Cu.yd

EXPENDITURES

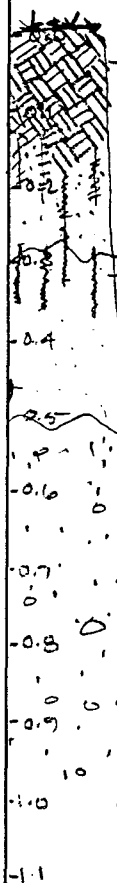
TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.67	18.43
GEOTECH	27.50	0.67	18.43
ROAD CONST	130.00	0.33	42.90
TRENCHING	1.50 Cu yd		90.61
BACKFILLING	1.50 Cu yd.		90.61
TOTAL EXPENDITURES			160.98

PLAN VIEW
(SCALE: 1:200)



FROZEN COLLUVIUM TO 1.0M DEPTH.

TRENCH PROFILE
(SCALE:)



ORGANIC COVER, THICK MOSS. PEAT SPARSE VEGETATION.

COLLUVIAL TOP SOIL; ORGANIC RICH, BLACK FINE GRAINED SOIL W/ 20% MINERAL MATTER – A-HORIZON SOIL.

COLLUVIUM; FROZEN, UNSORTED, GREY MED GRAINED, GRANULAR.

	PEBBLES 43%	SAND 50%	SILT 7%
V. COARSE	4	5	
COARSE	6	5	5
MED	10	25	2
FINE	8	10	
V. FINE	5	5	

- TRACE SMALL COBBLES
- TRACE CLAY
- ICE GRANULES BELOW 0.75M

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: _____
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-45

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	800	m
AZIMUTH	163°	deg.
INCLINATION		deg.

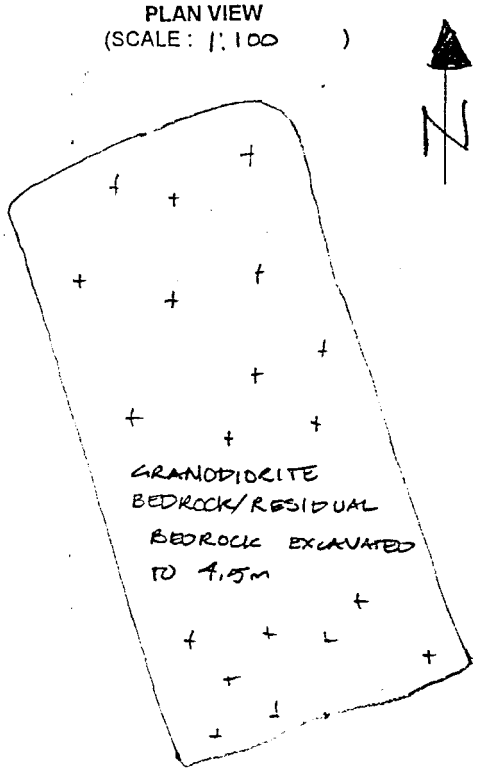
DIMENSIONS

AVERAGE DEPTH	4.5	m
AVERAGE WIDTH	4.0	m
LENGTH	8.0	m
VOLUME	144.0	Cu.m
	188.34	Cu.yd

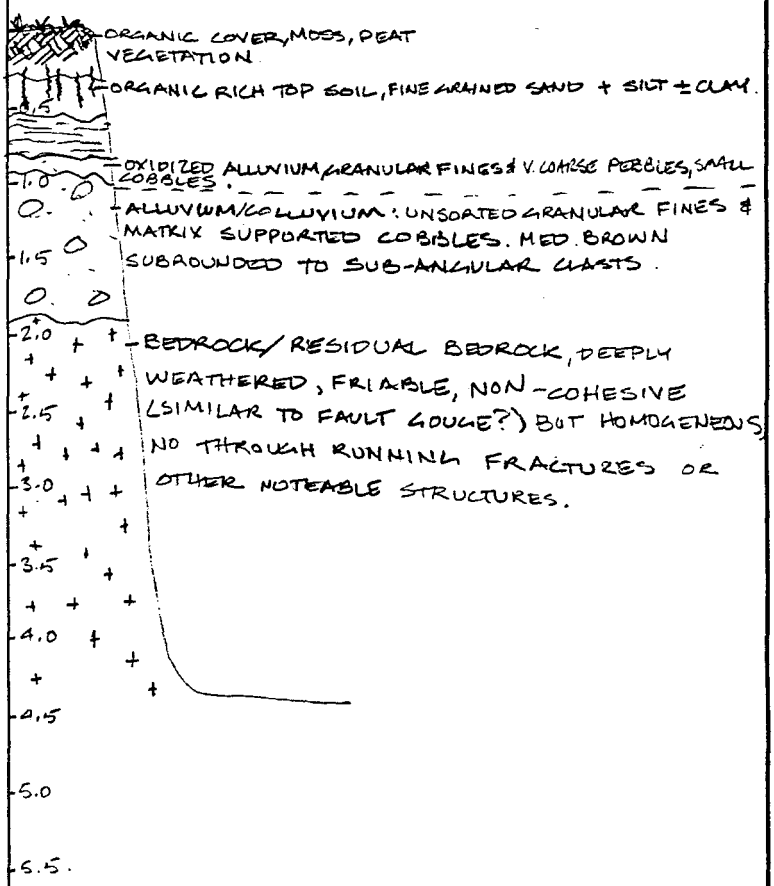
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.75	48.13
GEOTECH	27.50	1.75	48.13
ROAD CONST.	130.00	0.08	10.79
TRENCHING	2.00/cu yd		376.69
BACKFILLING	2.00 Cu yd		376.69
TOTAL EXPENDITURES			860.43

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL _____
PLACER GRAVEL _____
ROCK _____

COMMENTS / DESCRIPTIONS: _____

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-46

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	875	m
AZIMUTH	049	deg.
INCLINATION	12 → 128	deg.

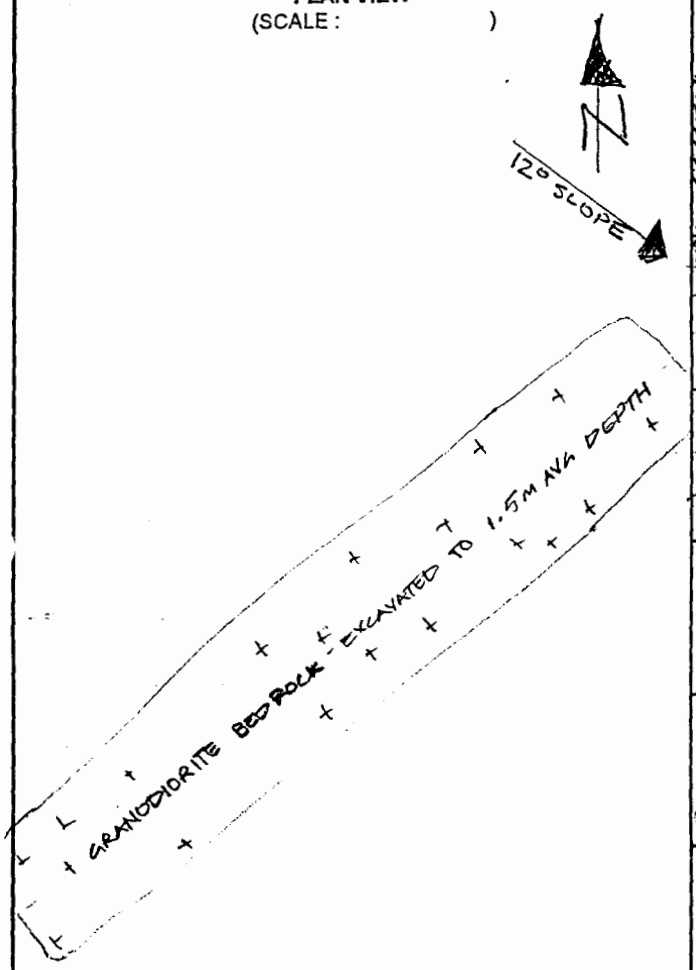
DIMENSIONS

AVERAGE DEPTH	1.5	m
AVERAGE WIDTH	2.0	m
LENGTH	11.0	m
VOLUME	33.0	Cu.m
	43.16	Cu.yd

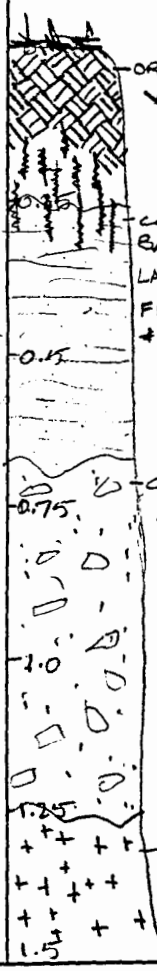
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.25	34.38
GEOTECH	27.50	1.25	34.38
ROAD CONST	130.00	1.0	130.00
TRENCHING	2.00 Cu/yd		86.32
BACKFILLING	2.00 Cu/yd		86.32
TOTAL EXPENDITURES			371.40

PLAN VIEW
(SCALE:)



TRENCH PROFILE
(SCALE: 1", 12.5)



ORGANIC COVER, MOSS, PEAT VEGETATION.

COLLUVIUM: SOLIFLUCTED, ORGANIC RICH, WEATHER BANDED? (ALTERNATING BROWN & DARK GREY LAYERS W/ STREAKS OF BLACK) - TOP SOIL FINE-V.FINE PEBBLES, MED-V.FINE SAND, COARSE SILT & MINOR CLAY

COLLUVIUM: FROZEN, MED. BROWN, GRANULAR. COBBLES - 1% SMALL, ICE CRYSTALS 5%.

	PEBBLES	SAND	SILT
V. COARSE	5	10	
COARSE	5	10	5
MED	10	20	5
FINE	5	10	
V. FINE	5	10	

BEDROCK; GRANODIORITE, COARSE GRAINED FRESH, BIOTITE & HORNBLENDE 15%, RESIDUAL SOIL FILLING FRACTURES.

REFUSAL.

SAMPLE NUMBERS:
- SOIL
- PLACER GRAVEL
- ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PI. ESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 26
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TD94-47

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	885	m
AZIMUTH	116	deg.
INCLINATION	12 → 116	deg.

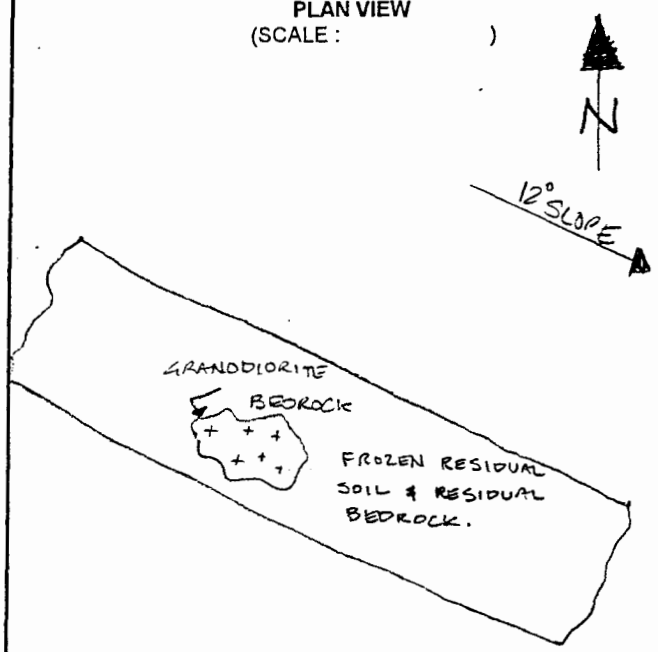
DIMENSIONS

AVERAGE DEPTH	1.3	m
AVERAGE WIDTH	2.0	m
LENGTH	8.0	m
VOLUME	20.8	Cu.m
	27.21	Cu.yd

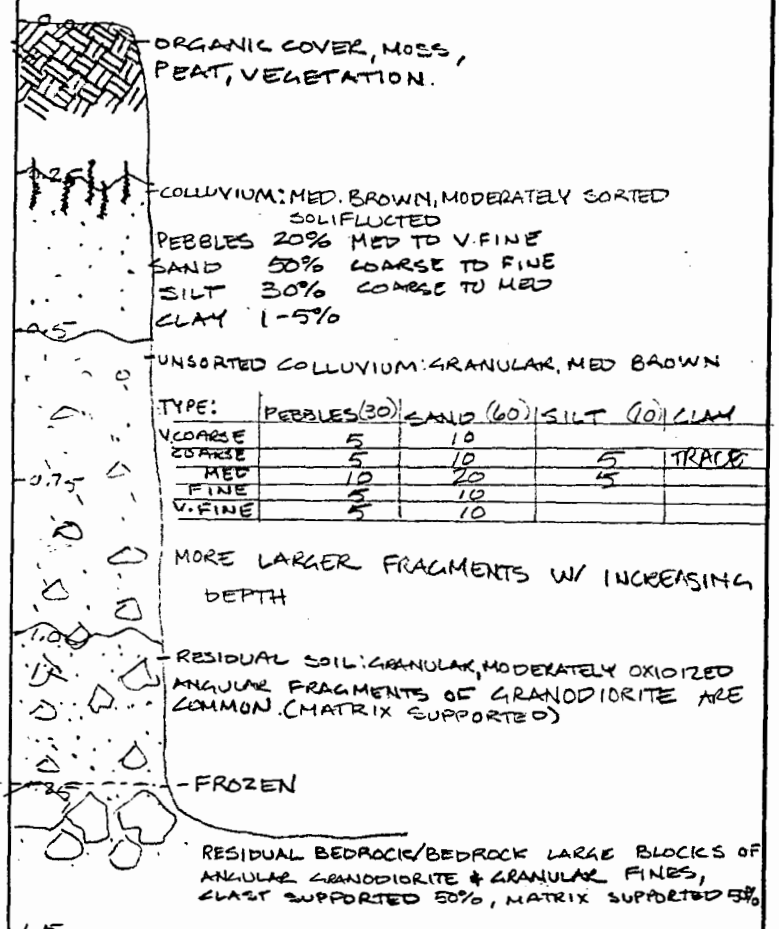
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.25	34.38
GEOTECH	27.50	1.25	34.38
ROAD CONST.	130.00	0.08	10.79
TRENCHING	2.00 Cu.yd		54.41
BACKFILLING	2.00 Cu.yd		54.41
TOTAL EXPENDITURES			188.37

PLAN VIEW
(SCALE:)



TRENCH PROFILE
(SCALE: 1:12.5)



SAMPLE NUMBERS:

SOIL _____

PLACER GRAVEL _____

ROCK _____

COMMENTS / DESCRIPTIONS: _____

PLACER TEST PI. ESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 22
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-48

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	790	m
AZIMUTH	074	deg.
INCLINATION		deg.

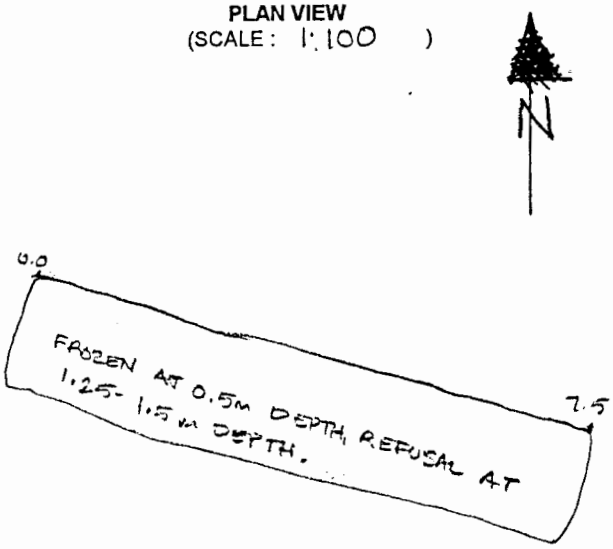
DIMENSIONS

AVERAGE DEPTH	1.25	m
AVERAGE WIDTH	1.5	m
LENGTH	7.5	m
VOLUME	14.06	Cu.m
	18.39	Cu.yd

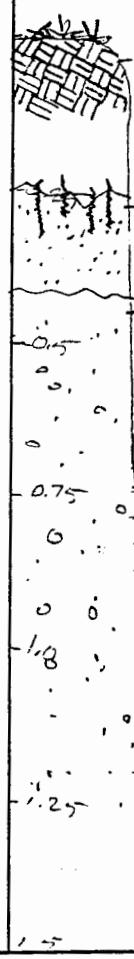
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.75	20.63
GEOTECH	27.50	0.75	20.63
ROAD CONST	130.00	0.17	22.10
TRENCHING	1.50 Cuyd		27.59
BACKFILLING	1.50 Cuyd		27.59
TOTAL EXPENDITURES			118.54

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:12.5)



- ORGANIC COVER, MOSS, PEAT, VEGETATION.
- ORGANIC RICH TOP SOIL (20-30% ORGANIC MATTER \ FINE GRAINED SAND & SILT 70-80%, MINOR CLAY.
- COLLUVIUM MODERATELY SORTED, RELATIVELY FINE GRAINED, GREYISH BROWN, GOOD & FROSTY! 30-40% ICE

FINES CONSIST OF:

PEBBLES 15%		SAND 45%	SILT 35%	CLAY 5%
V.COARSE	1	5		
COARSE	1	5	15	5
MED	5	15	10	
FINE	3	10	3	
V.FINE	10	10	2	

- POSSIBLY AN ALLUVIAL FAN SOURCE
- FROZEN AT 0.5M DEPTH.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 21
CREEK NAME: CASINO
TYPE: CREEK

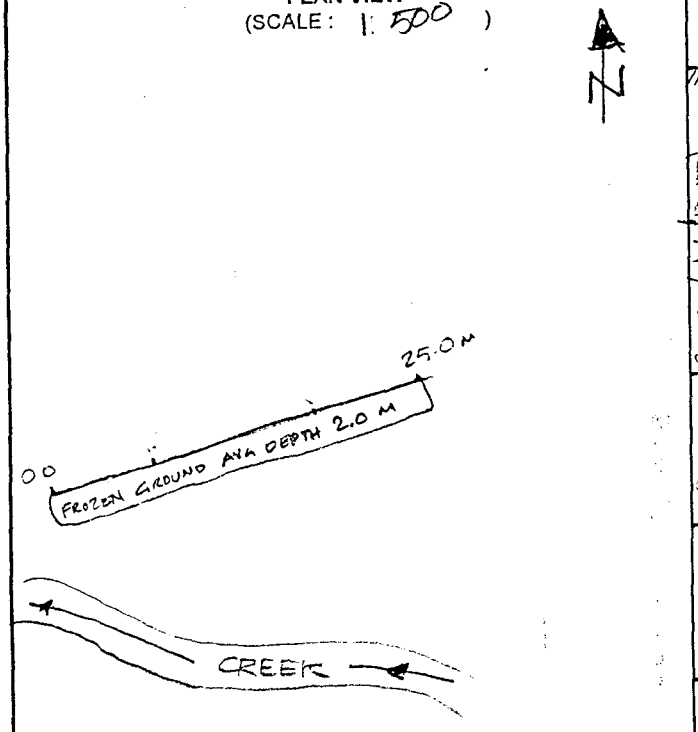
PIT IDENTIFICATION NUMBER: TP04-49

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.5	m
EASTING	m	AVERAGE WIDTH	2.0	m
ELEVATION	790 m	LENGTH	25.0	m
AZIMUTH	073 deg.	VOLUME	75.0	Cu.m
INCLINATION	5° → 260° deg.		98.1	Cu.yd

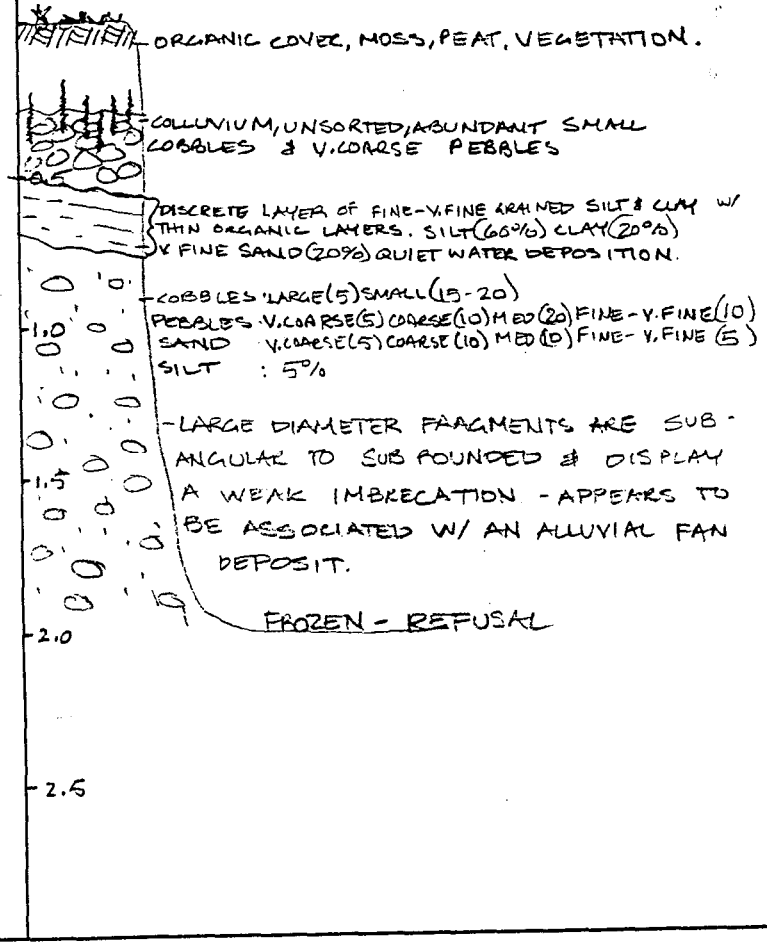
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.5	41.25
GEOTECH	27.50	1.5	41.25
ROAD CONST	130.00	0.17	22.10
TRENCHING	1.50 Cu yd		147.15
BACKFILLING	1.50 Cu yd		147.15
TOTAL EXPENDITURES			398.90

PLAN VIEW
(SCALE: 1: 500)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:
SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS: THIS TRENCH IS LOCATED APPROX 80M FROM TRENCH TP04-48 @ 239° AT THE TRIBUTARY DRAINING INTO CASINO CREEK FROM THE EAST

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 21
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-50

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION		m
AZIMUTH	268°	deg.
INCLINATION		deg.

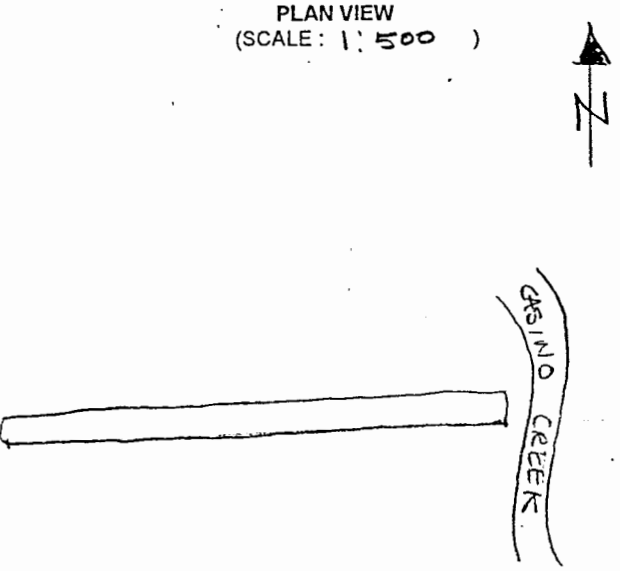
DIMENSIONS

AVERAGE DEPTH	1.75	m
AVERAGE WIDTH	2.0	m
LENGTH	33.0	m
VOLUME	115.5	Cu.m
	151.07	Cu.yd

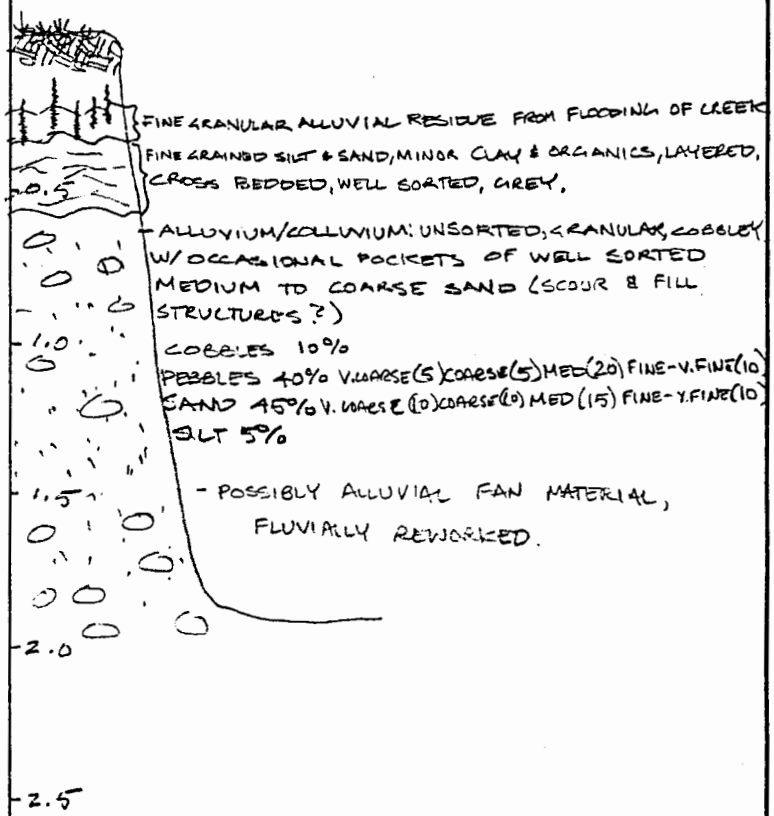
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.5	41.25
GEOTECH	27.50	1.5	41.25
ROAD CONST	130.00	0.08	10.79
TRENCHING	1.50 Cu yd		226.61
BACKFILLING	1.50 Cu yd		226.61
TOTAL EXPENDITURES			546.51

PLAN VIEW
(SCALE : 1:500)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL	
PLACER GRAVEL	TP94-50PL
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 21
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94 .51

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	795	m
AZIMUTH	148°	deg.
INCLINATION		deg.

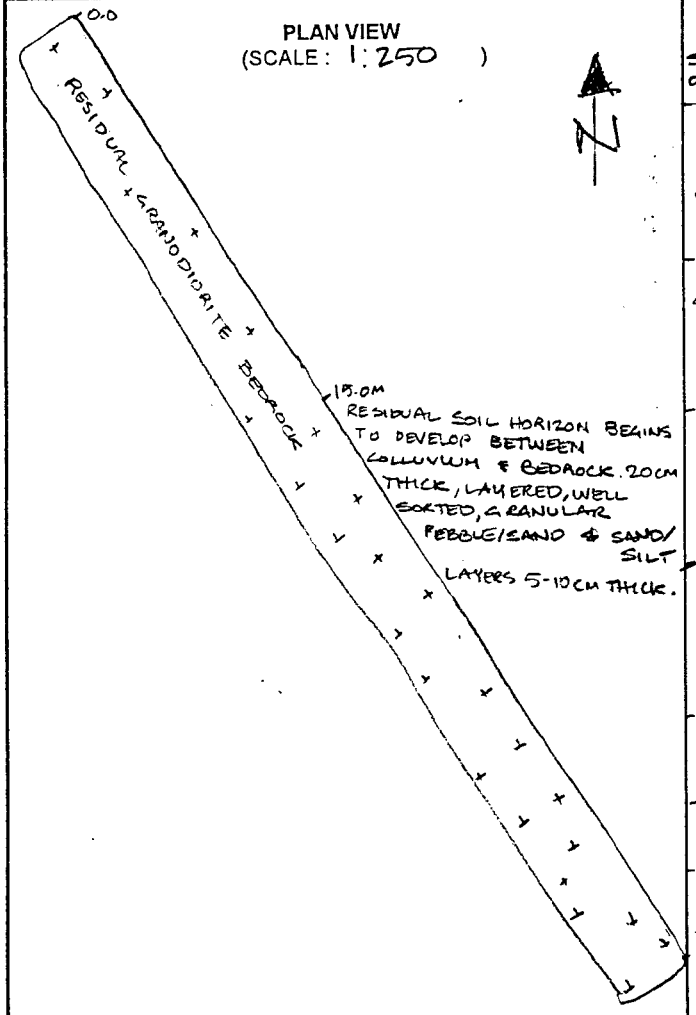
DIMENSIONS

AVERAGE DEPTH	2.7	m
AVERAGE WIDTH	2.5	m
LENGTH	37.0	m
VOLUME	249.75	Cu.m
	326.66	Cu.yd

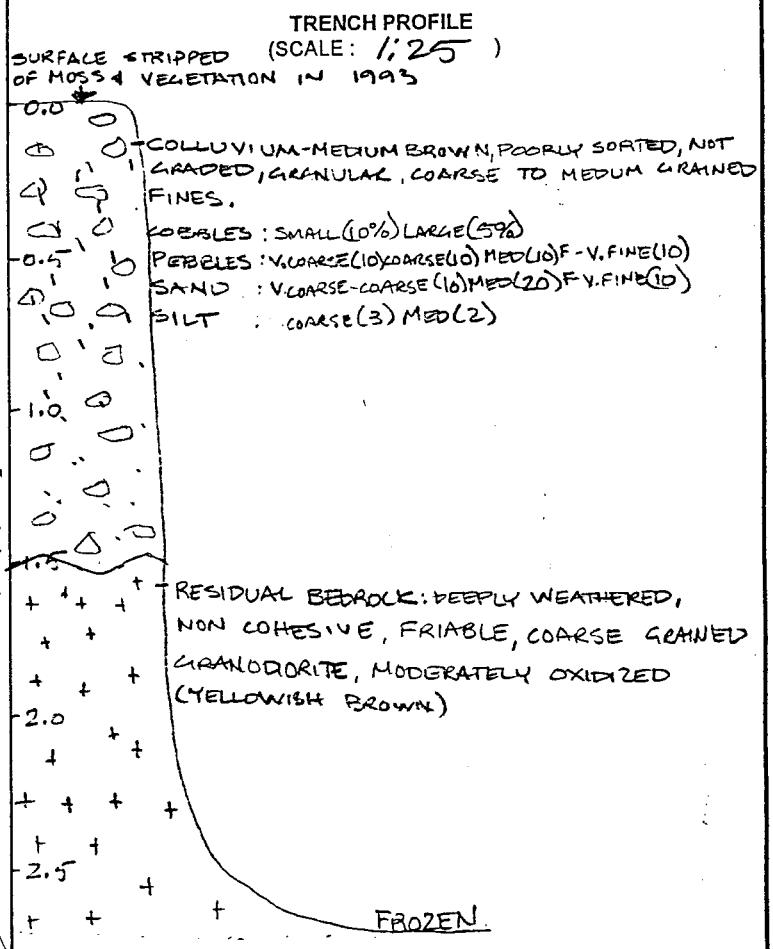
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	3.17	87.18
GEOTECH	27.50	3.17	87.18
ROAD CONST.	130.00	—	0.00
TRENCHING	2.00 Cuyd		653.32
BACKFILLING	2.00 Cuyd		653.32
TOTAL EXPENDITURES			1480.98

PLAN VIEW (SCALE: 1:250)



TRENCH PROFILE (SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: _____
CREEK NAME: CASINO
TYPE: CREEK

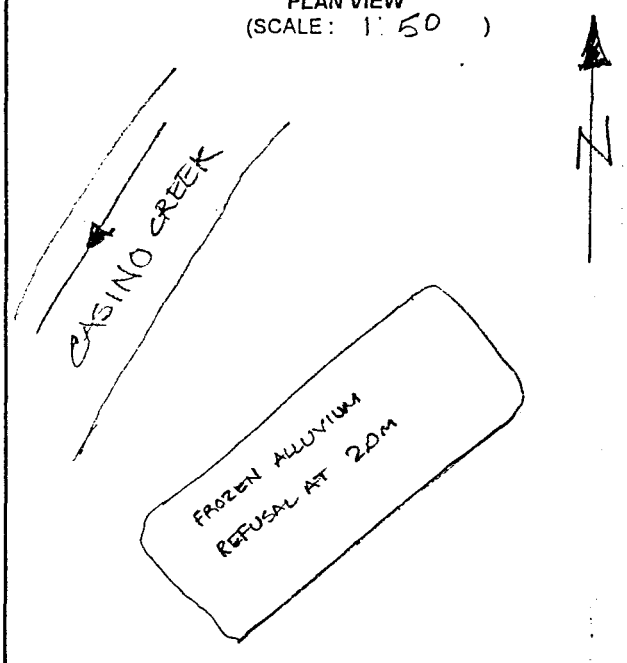
PIT IDENTIFICATION NUMBER: TP94-52

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.6	m
EASTING	m	AVERAGE WIDTH	2.0	m
ELEVATION	m	LENGTH	2.3	m
AZIMUTH	050° deg.	VOLUME	7.36	Cu.m
INCLINATION	04→210° deg.		9.63	Cu.yd

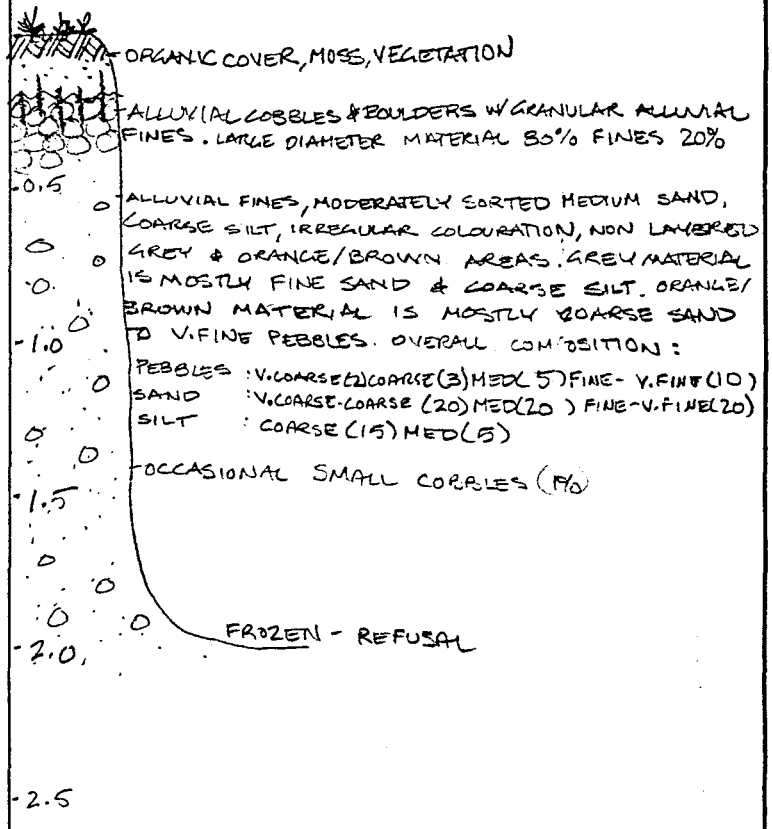
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	17.50	1.0	17.50
GEOTECH	27.50	1.0	27.50
ROAD CONST.	130.00	0.08	10.79
TRENCHING	1.50 Cu yd		14.45
BACKFILLING	1.50 Cu yd		14.45
TOTAL EXPENDITURES			94.69

PLAN VIEW
(SCALE: 1:50)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL _____

PLACER GRAVEL _____

ROCK _____

COMMENTS / DESCRIPTIONS: _____

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 18
CREEK NAME: CASINO
TYPE: CREEK

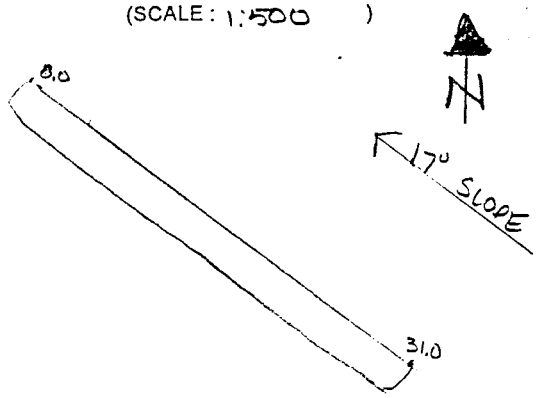
PIT IDENTIFICATION NUMBER: TP9A-53

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.5	m
EASTING	m	AVERAGE WIDTH	1.65	m
ELEVATION	m	LENGTH	31.0	m
AZIMUTH	308° deg.	VOLUME	76.73	Cu.m
INCLINATION	17 → 308° deg.		100.35	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.25	34.38
GEOTECH	27.50	1.25	34.38
ROAD CONST	130.00	1.08	10.79
TRENCHING	$1.50 Cu.yd		150.53
BACKFILLING	$1.50 Cu.yd		150.53
TOTAL EXPENDITURES			380.61

PLAN VIEW
(SCALE : 1:500)



TRENCH PROFILE
(SCALE : 1:25)



ORGANIC COVER, MOSS, PEAT, VEGETATION.

TALUS & TALUS FINES. 70% ANGULAR COBBLES & SMALL BOULDERS. 30% GRANULAR FINES MIXED W/ ORGANIC DEBRIS.

0.5

COLLUVIUM: MED BROWN SILTY SAND GRANULAR FINES & MATRIX SUPPORTED ANGULAR COBBLES. 65% FINES 35% COBBLES & SMALL BOULDERS + V. COARSE PEBBLES

COBBLES: SMALL(5) LARGE(5)
PEBBLES: V.COARSE(10) COARSE(5) MED(5) FINE-V.FINE(5)
SAND: V.COARSE-COARSE(10) MED(10) FINE-V.FINE(5)
SILT: V.COARSE-COARSE(0) MED(3) FINE-V.FINE(2)
CLAY: TRACE

1.0

DOMINANT SPECIES OF COBBLE IS A FINE GRAINED DARK GREY ROCK W/ A GNEISSIC TEXTURE WELL FOLIATED W/ THIN BLACK LAYERS SEPARATING 0.5MM - 2MM THICK LAYERS OF QUARTZ? FELDSPAR?

1.5

FROZEN - REFUSAL

2.0

2.5

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASE 18
CREEK NAME: CASINO
TYPE: CREEK

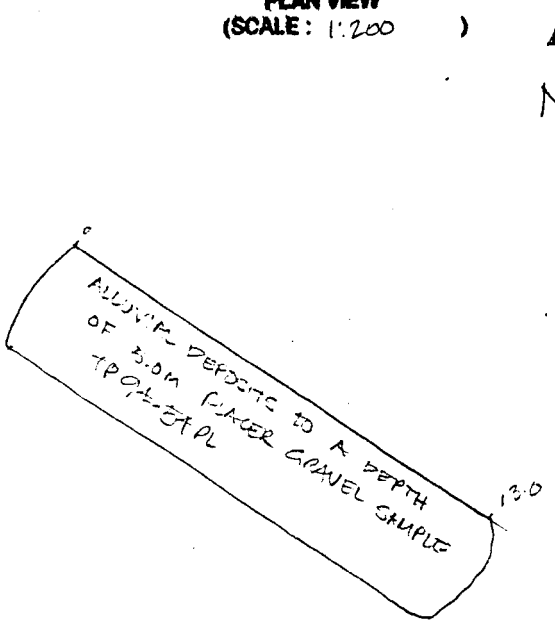
PIT IDENTIFICATION NUMBER: TP94-54

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	5.0	m
EASTING	m	AVERAGE WIDTH	3.0	m
ELEVATION	m	LENGTH	13.0	m
AZIMUTH	125° deg.	VOLUME	195.0	Cu.m
INCLINATION	deg.		255.05	Cu.yd

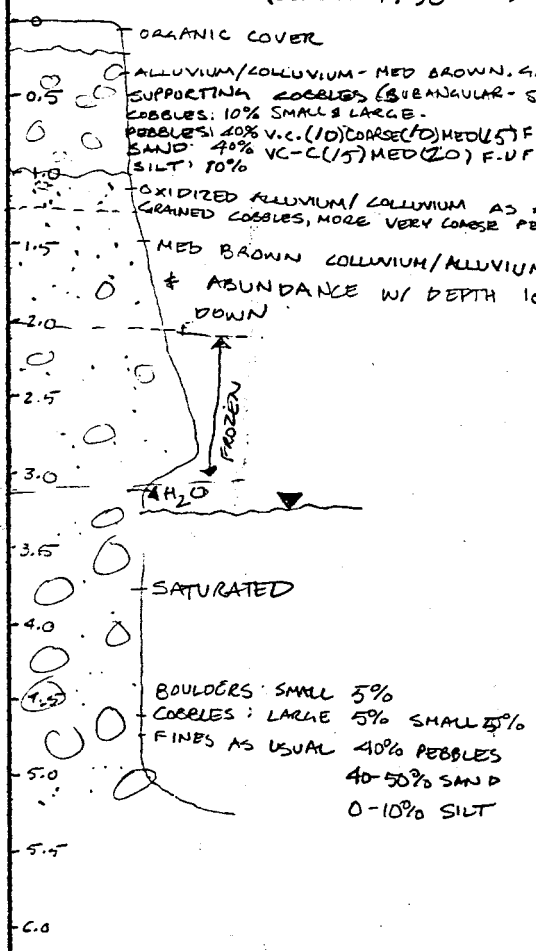
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.33	36.58
GEOTECH	27.50	1.33	36.58
ROAD CONST	130	—	
TRENCHING	2.00 Cu yd		510.10
BACKFILLING	2.00 Cu yd		510.10
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:200)



SOIL PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:
SOIL
PAN CONCENTRATE TP94-54 PL -5.0m SAMPLE DEPTH.
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 19
CREEK NAME: CASINO
TYPE: CREEK

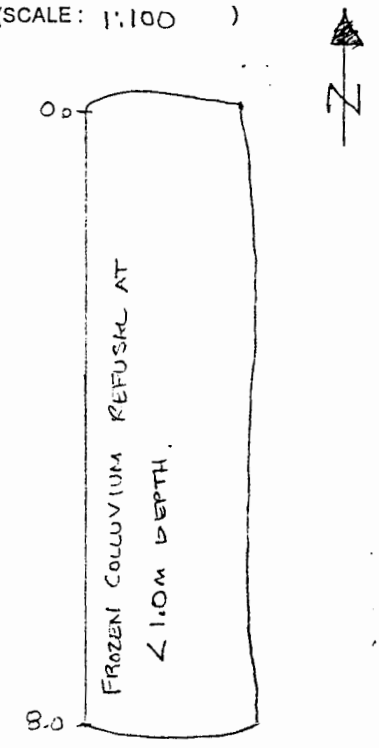
PIT IDENTIFICATION NUMBER: TP94-55

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	0.75	m
EASTING	m	AVERAGE WIDTH	2.0	m
ELEVATION	775 m	LENGTH	3.0	m
AZIMUTH	000° deg.	VOLUME	12.0	Cu.m
INCLINATION	deg.		15.7	Cu.yd

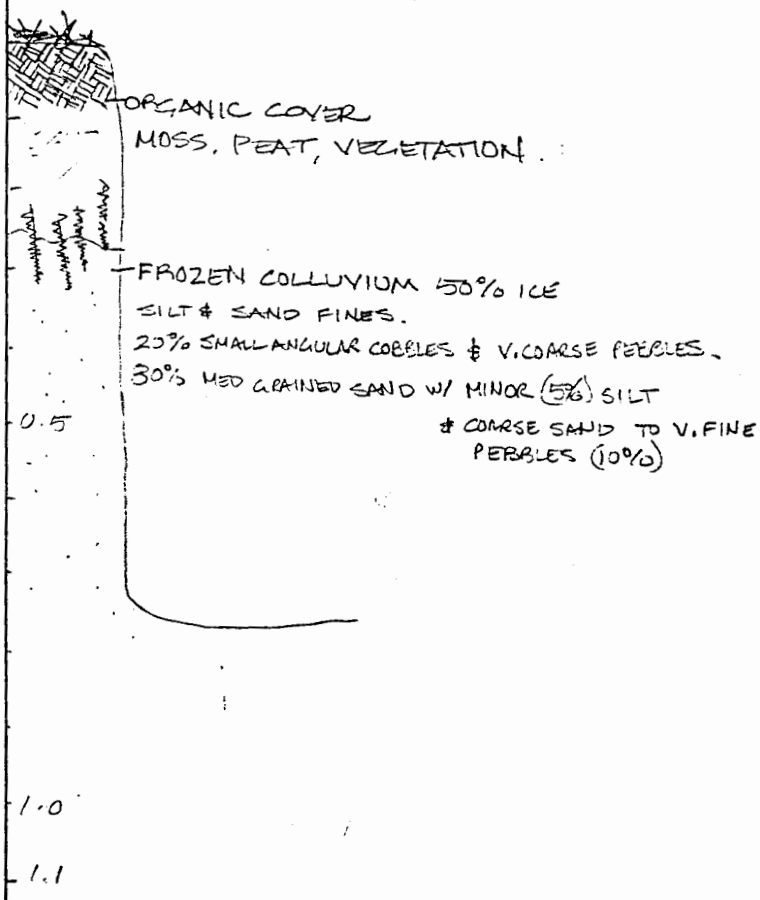
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.5	13.75
GEOTECH	27.50	0.5	13.75
ROAD CONST.	130.00	0.25	32.50
TRENCHING	1.50 Cu/yd		23.55
BACKFILLING	1.50 Cu/yd		23.55
TOTAL EXPENDITURES			107.10

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:10)



SAMPLE NUMBERS:
- SOIL
- PLACER GRAVEL
- ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 18
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-56

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	790	m
AZIMUTH	300	deg.
INCLINATION	10° → 120	deg.

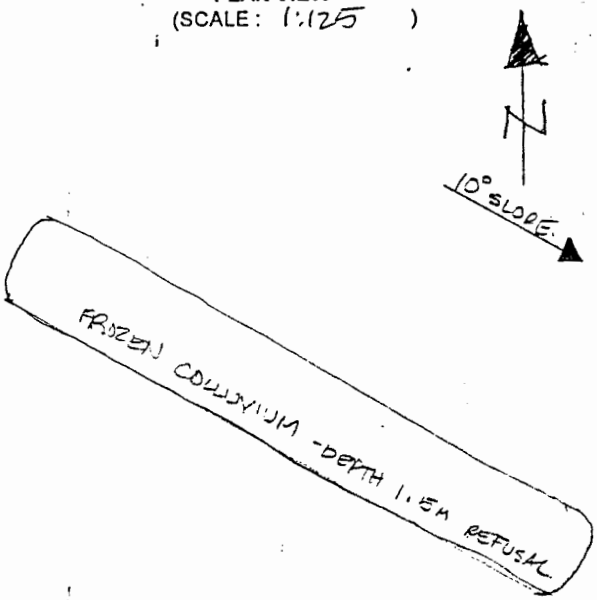
DIMENSIONS

AVERAGE DEPTH	1.4	m
AVERAGE WIDTH	1.5	m
LENGTH	10.0	m
VOLUME	21.0	Cu.m
	27.5	Cu.yd

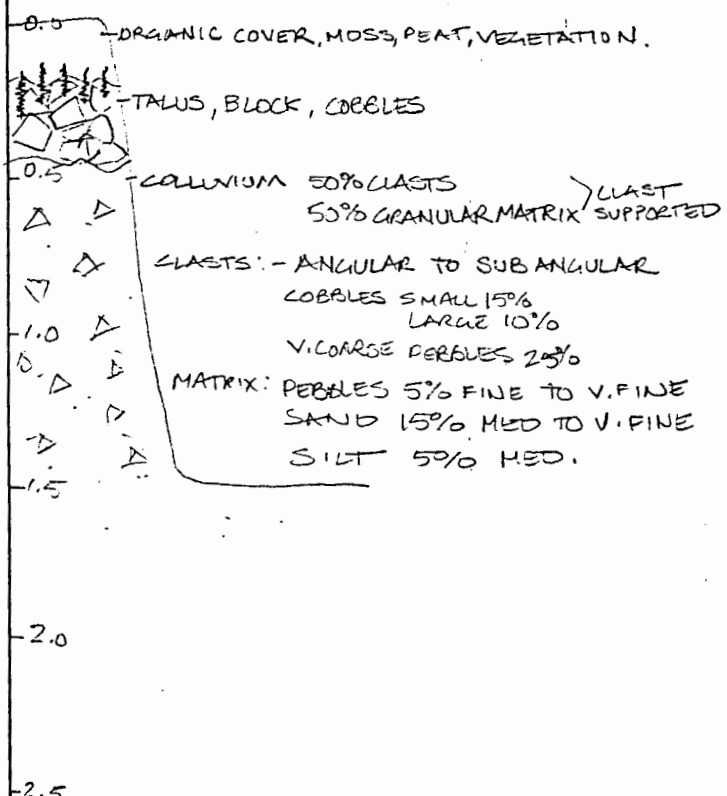
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST	130.00	0.08	10.79
TRENCHING	1.50 Cu/yd		18.33
BACKFILLING	1.50 Cu/yd		18.33
TOTAL EXPENDITURES			102.45

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 17
CREEK NAME: CASINO
TYPE: CREEK

'T IDENTIFICATION NUMBER: TP94-57

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	735	m
AZIMUTH	214°	deg.
INCLINATION		deg.

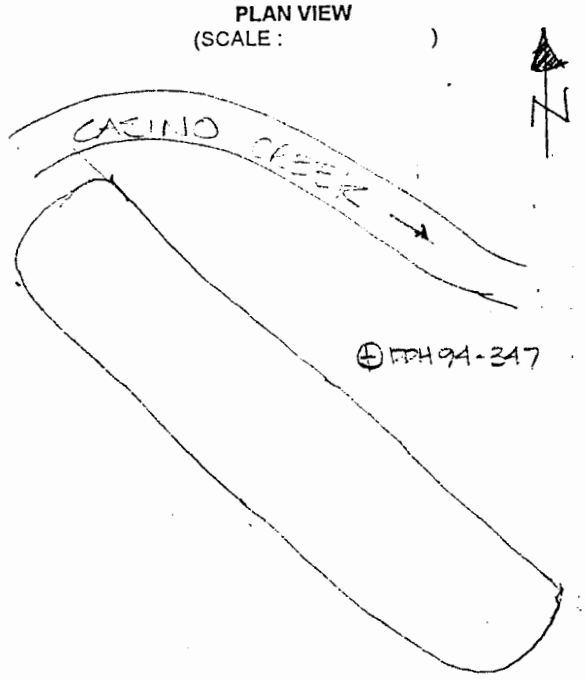
DIMENSIONS

AVERAGE DEPTH	3.5	m
AVERAGE WIDTH	4.5	m
LENGTH	20.0	m
VOLUME	315.0	Cu.m
	412.0	Cu.yd

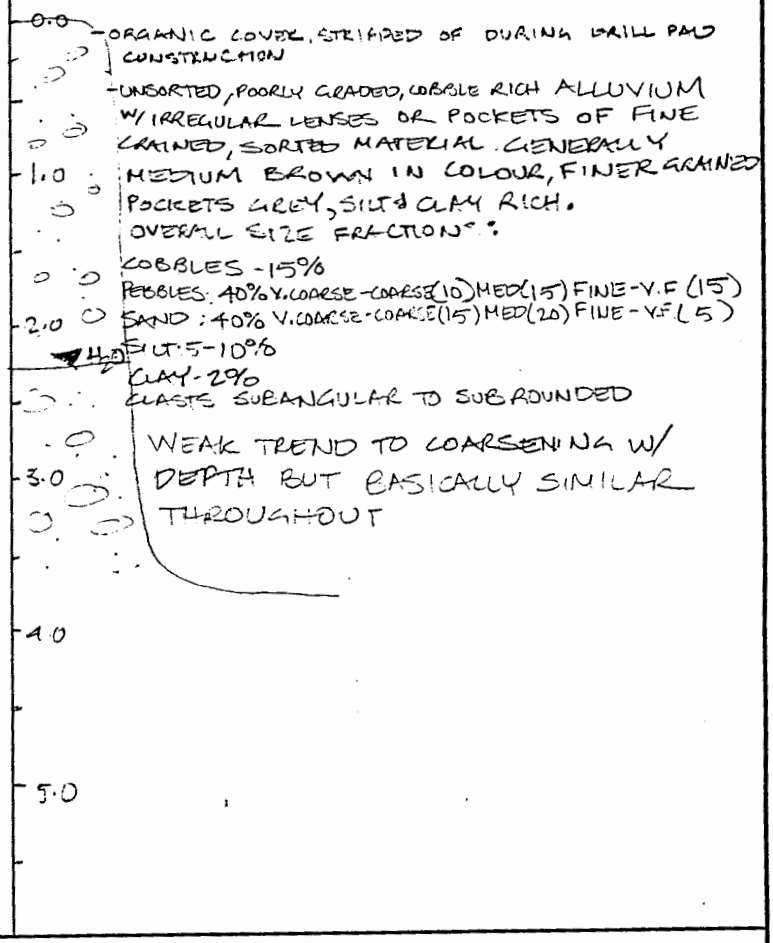
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST.	130.00	—	0.00
TRENCHING	2.00 Cu yd		824.00
BACKFILLING	2.00 Cu yd		824.00
TOTAL EXPENDITURES			1,758.00

PLAN VIEW
(SCALE :)



TRENCH PROFILE
(SCALE : 1" 50)



- ORGANIC COVER, STRIPPED OF DURING DRILL PAD CONSTRUCTION
- UNSORTED, POORLY GRADED, COBBLE RICH ALLUVIUM W/ IRREGULAR LENSES OR POCKETS OF FINE GRAINED, SORTED MATERIAL. GENERALLY MEDIUM BROWN IN COLOUR, FINER GRAINED POCKETS GREY, SILT & CLAY RICH.
  OVERALL SIZE FRACTION'S:
  COBBLES - 15%
  PEBBLES: 40% V. COARSE - COARSE (10) MED (15) FINE - V.F (15)
  SAND: 40% V. COARSE - COARSE (15) MED (20) FINE - V.F (5)
  SILT: 5-10%
  CLAY - 2%
  CLASTS SUBANGULAR TO SUBROUNDED
- WEAK TREND TO COARSENING W/ DEPTH BUT BASICALLY SIMILAR THROUGHOUT

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL TP94-57 PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 11
CREEK NAME: CASINO
TYPE: CREEK

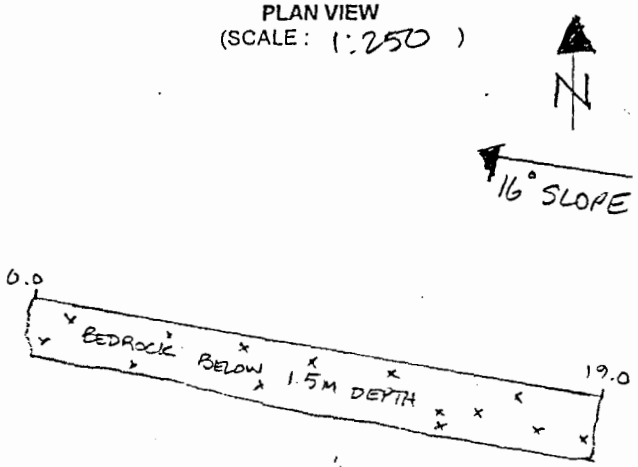
IDENTIFICATION NUMBER: TP94-58

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.3	m
EASTING	m	AVERAGE WIDTH	2.0	m
ELEVATION	800 m	LENGTH	19.0	m
AZIMUTH	281° deg.	VOLUME	49.4	Cu.m
INCLINATION	16° → 280 deg.		64.61	Cu.yd

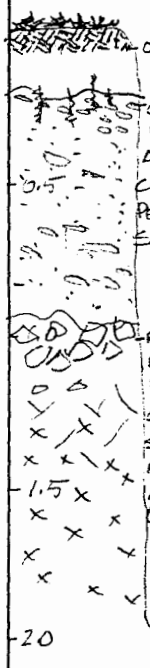
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.33	36.58
GEOTECH	27.50	1.33	36.58
ROAD CONST.	130.00	0.33	42.90
TRENCHING	51.00 Cu.yd		129.22
BACKFILLING	0.200 Cu.yd		129.22
TOTAL EXPENDITURES			374.83

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:25)



ORGANIC COVER, MOSS, PEAT, VEGETATION.

COLLUVIUM, DARK GREY TALUS FINES & GRANULAR FINES, IMBRECATED // TO SLOPE OF GROUND ANGULAR CLASTS ARE UNSORTED.
COBBLES: SMALL 10%
PEBBLES: V. COARSE (40) COARSE (20) MED (20) F-V. FINE (10)
SAND: V. COARSE (10)

RESIDUAL BEDROCK, ANGULAR CLASTS OF SILICEOUS BEDROCK SUSPENDED IN A MATRIX OF MED. SAND & COARSE SILT. CLASTS 50% MATRIX 50%.

GRADES INTO HIGHLY FRACTURED, OXIDIZED, SILICEOUS, BRITTLE, FOLIATED METAMORPHIC ROCK. FOLIATION APPEARS AS GNEISSIC BANDING ALTERNATING DARK & LIGHT BANDS IE - MAFIC (BIOTITE) & QUARTZ LAYERS. BANDING VARIES IN WIDTH & IS NOT PERVASIVE. IN SOME AREAS ARE OBSCURED BY SILICIFICATION.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT SCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 16
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-59

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	810	m
AZIMUTH	081	deg.
INCLINATION	20° → 261	deg.

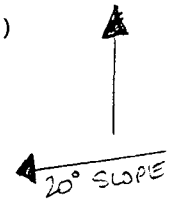
DIMENSIONS

AVERAGE DEPTH	1.6	m
AVERAGE WIDTH	2.5	m
LENGTH	13.0	m
VOLUME	52.0	Cu.m
	68.01	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.58	15.95
GEOTECH	27.50	0.58	15.95
ROAD CONST	130.00	0.083	10.79
TRENCHING	1.50 Cu/yd		102.02
BACKFILLING	1.50 Cu/yd		102.02
TOTAL EXPENDITURES			246.73

PLAN VIEW
(SCALE: 1:250)



FROZEN COLLUVIUM REFUSAL AT 1.5 TO 2.0m DEPTH.

TRENCH PROFILE
(SCALE: 1:25)

0.0 — ORGANIC COVER
MOSS, PEAT, VEGETATION

COLLUVIUM, BROWN, RELATIVELY FINE GRAINED MATRIX SUPPORTING ANGULAR CLASTS OF VERY COARSE PEBBLES & SMALL COBBLES. THE MATRIX CONSISTS OF MED SAND TO COARSE SILT.
COBBLES : 5%
PEBBLES : V.COARSE (10) COARSE (10) MED (10) FINE-V.F (5)
SAND : V.COARSE-COARSE (10) MED (30) FINE-V.F (20)
SILT : 5%
CLAY : TRACE
(- FINES ARE FOLIATED TO A DEPTH OF 1.3M // TO SLOPE.)

0.5
1.0
1.5 — BELOW 1.3M COLLUVIUM IS FROZEN & BECOMES POORLY SORTED W/ LARGER CLASTS IN SIMILAR MATRIX TO ABOVE
FROZEN - REFUSAL
2.0
2.5

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 16/17
CREEK NAME: CASINO
TYPE: CREEK

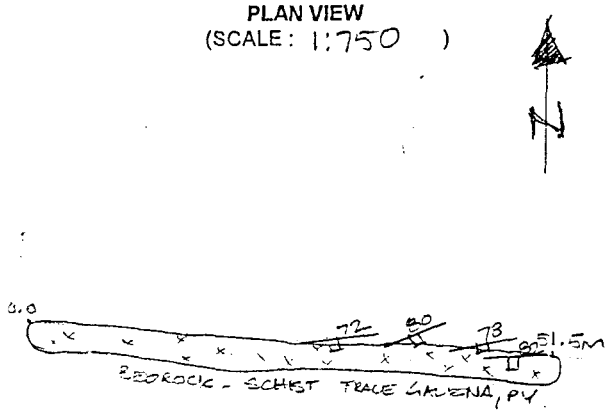
IDENTIFICATION NUMBER: TP94-60

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.75	m
EASTING	m	AVERAGE WIDTH	2.0	m
ELEVATION	810 m	LENGTH	51.5	m
AZIMUTH	175° deg.	VOLUME	180.25	Cu.m
INCLINATION	deg.		235.76	Cu.yd

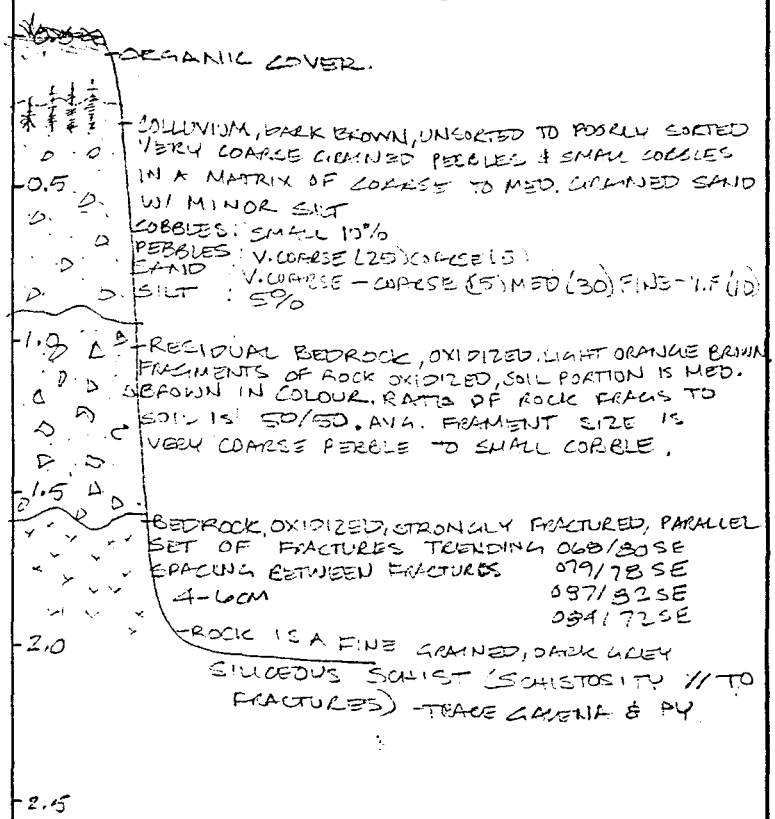
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.58	43.45
GEOTECH	27.50	1.58	43.45
ROAD CONST	130.00	0.08	10.79
TRENCHING	2.00 Cu/yd		471.52
BACKFILLING	2.00 Cu/yd		471.52
TOTAL EXPENDITURES			1040.73

PLAN VIEW
(SCALE: 1:750)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL: TP94-60A COLLUVIUM
PLACER GRAVEL:
ROCK: TP94-60B BEDROCK SCHIST W/ TRACE GALENA

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-61

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION		m
AZIMUTH	250°	deg.
INCLINATION		deg.

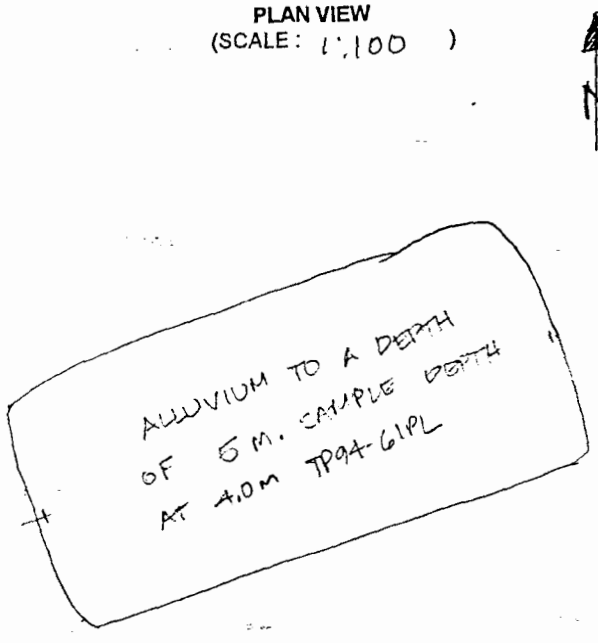
DIMENSIONS

AVERAGE DEPTH	5.0	m
AVERAGE WIDTH	3.0	m
LENGTH	7.0	m
VOLUME	105	Cu.m
	137.33	Cu.yd

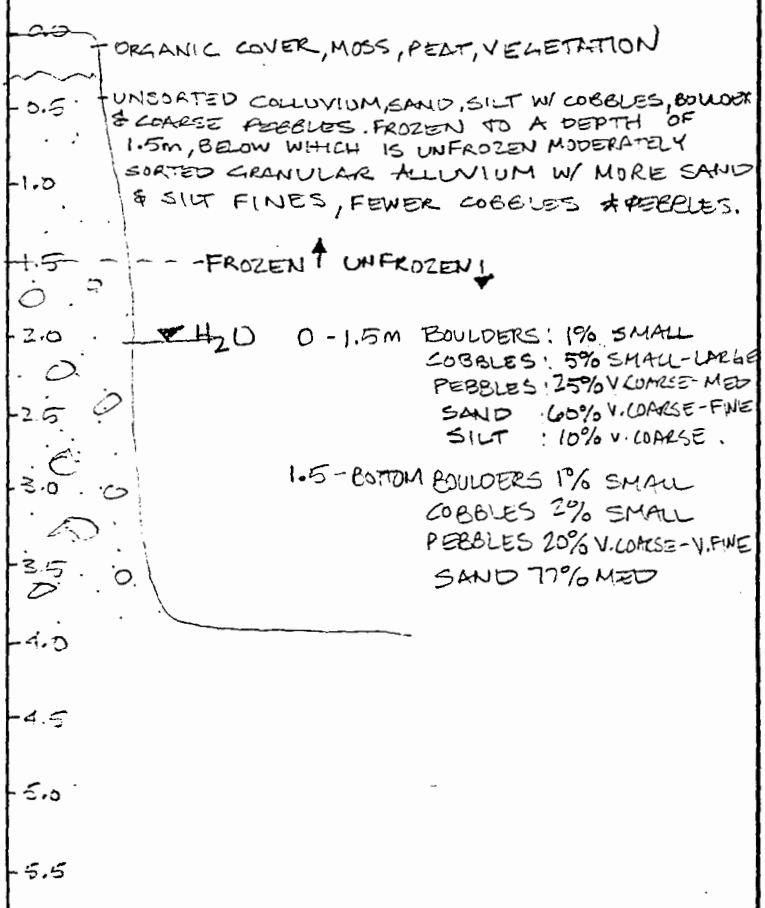
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST	130.00	0.25	32.50
TRENCHING	$2.00/Cu.yd		274.66
BACKFILLING	$2.00/Cu.yd		274.66
TOTAL EXPENDITURES			691.33

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP94-61PL 4.0M DEPTH
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-62

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	775	m
AZIMUTH	054	deg.
INCLINATION	13 → 054	deg.

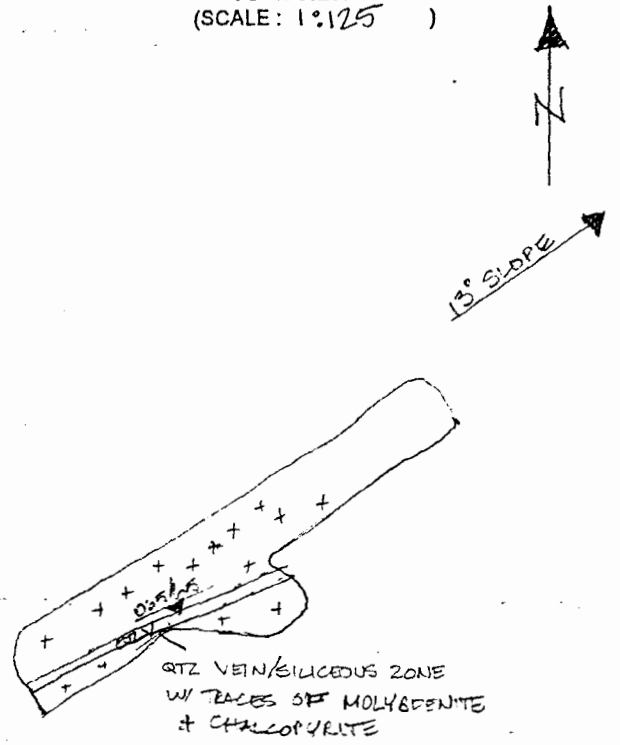
DIMENSIONS

AVERAGE DEPTH	1.6	m
AVERAGE WIDTH	2.5	m
LENGTH	16.5	m
VOLUME	66.0	Cu.m
	86.32	Cu.yd

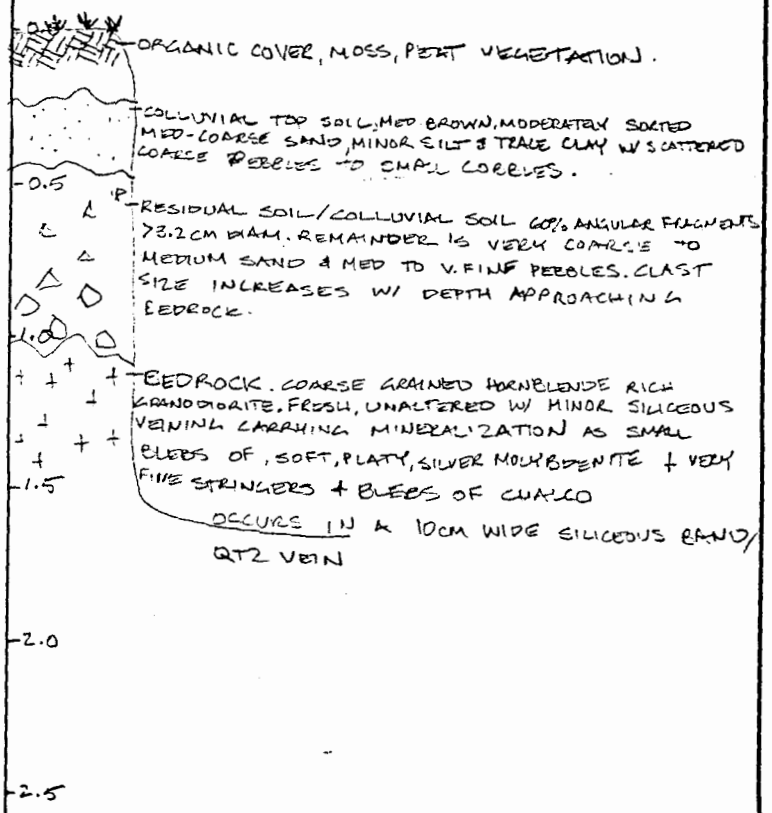
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST	130.00	0.42	54.60
TRENCHING	2.00 Cu yd		172.64
BACKFILLING	2.00 Cu yd		172.64
TOTAL EXPENDITURES			509.89

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL	TP94-62 COLLUVIUM
PLACER GRAVEL	
ROCK	TD94-62 QUARTZ VEIN W/ MoS2 + TRACE CHALCO.

COMMENTS / DESCRIPTIONS:

PLACER TEST PI. ESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-63

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	780	m
AZIMUTH	031	deg.
INCLINATION	15 → 033	deg.

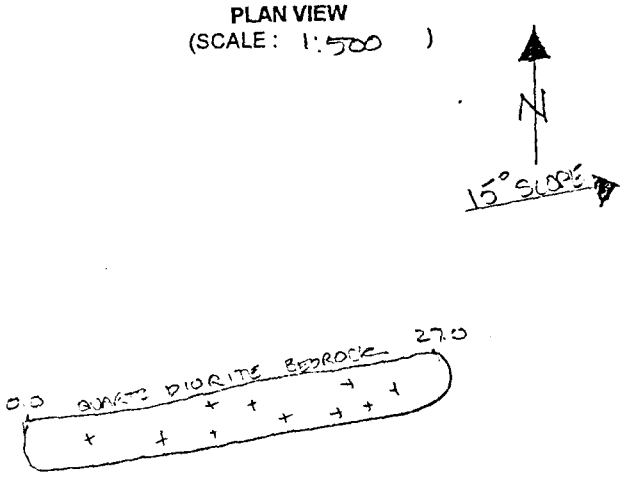
DIMENSIONS

AVERAGE DEPTH	1.6	m
AVERAGE WIDTH	2.25	m
LENGTH	27.0	m
VOLUME	97.2	Cu.m
	127.13	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.5	41.25
GEOTECH	27.50	1.5	41.25
ROAD CONST	130.00	0.17	22.10
TRENCHING	2.00 Cu.yd		254.26
BACKFILLING	2.00 Cu.yd		254.26
TOTAL EXPENDITURES			613.12

PLAN VIEW
(SCALE: 1:500)



TRENCH PROFILE
(SCALE: 1:25)



ORGANIC COVER, MOSS, PEAT, VEGETATION

0.5

UNSORTED COLLUVIUM, MED. BROWN, GRANULAR SANDY FINES W/ A MIXTURE OF COARSE MATERIAL RANGING FROM VERY COARSE PEBBLES 5-10% TO SMALL COBBLES 5% TO LARGE COBBLES 2% TO SMALL BOULDERS 1%.
FINES CONSIST OF:
PEBBLES 25%: COARSE - MED (10%) FINE - V. FINE (15%)
SAND 60%: COARSE - MED (40%) FINE - V. FINE (20%)
SILT 2-3%.

1.0

1.5

BEDROCK, COARSE GRAINED, HORNBLENDE RICH (50%) QUARTZ DIORITE - FRESH, UNALTERED.

2.0

2.5

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASE 10
CREEK NAME: CASINO
TYPE: CREEK

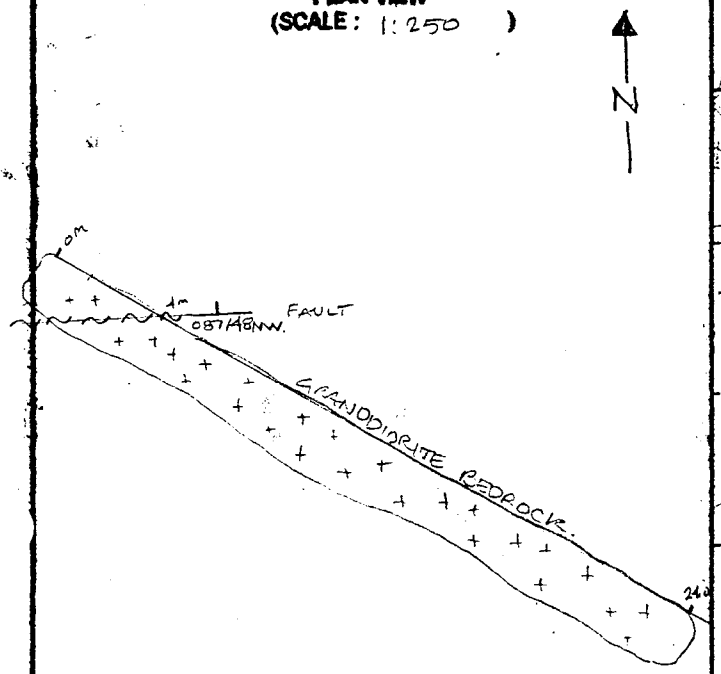
PIT IDENTIFICATION NUMBER: TP94-64

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	2.0	m
EASTING	m	AVERAGE WIDTH	2.2	m
ELEVATION	m	LENGTH	24.0	m
AZIMUTH	120° deg.	VOLUME	105.6	Cu.m
INCLINATION	11° → 070° deg.		138.12	Cu.yd

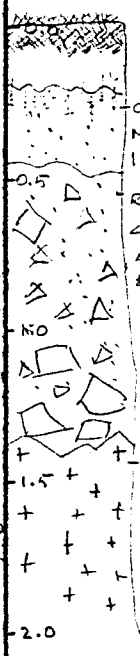
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.5	41.25
GEOTECH	27.50	1.5	41.25
ROAD CONST	130.00	0.17	22.10
TRENCHING	$2.00 cu yd		276.24
BACKFILLING	$2.00 Cu yd		276.24
TOTAL EXPENDITURES			656.08

PLAN VIEW
(SCALE: 1:250)



SOIL PROFILE
(SCALE: 1:25)



COLLUVIAL TOP SOIL MODERATELY SORTED, MED BROWN, MEDIUM SAND, MINOR SILT & TRACE CLAY W/ OCCASIONAL 1-2% VERY COARSE PEBBLES & SMALL COBBLES

RESIDUAL SOIL. MED BROWN. POORLY SORTED, WEAKLY GRADED (COARSENING DOWNWARD) COARSE GRAINED ANGULAR, GRANULAR FINES AND ANGULAR COBBLES & BOULDERS. PARTLY COLLUVIAL, PARTLY RESIDUAL
COBBLES: SMALL (10%) LARGE (5%) BOULDERS: SMALL (1%)
PEBBLES: V. COARSE (20%) COARSE (10%) MED (10%) FINE-V. FINE (10%)
SAND: V. COARSE - COARSE (15%) MED (10% FINE - V. FINE (5%)
SILT: 5%

BEDROCK. QUARTZ DIORITE. COARSE GRAINED, ABUNDANT HORNBLENDE, FRESH UNALTERED. (MINOR SILICIFICATION)

FAULT ZONE @ 087/48% NW ~1.0 M WIDE
- OXIDIZED, STRONGLY FRACTURED ALONG A COMMON TREND. FRIABLE. SILICIFICATION SEEPAGES IN WALL ROCK - ESPECIALLY HANGING WALL

SAMPLE NUMBERS:
SOIL: TP94-64 COLLUVIUM
PAN CONCENTRATE:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 7
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-65

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	810	m
AZIMUTH	096°	deg.
INCLINATION	27 → 160°	deg.

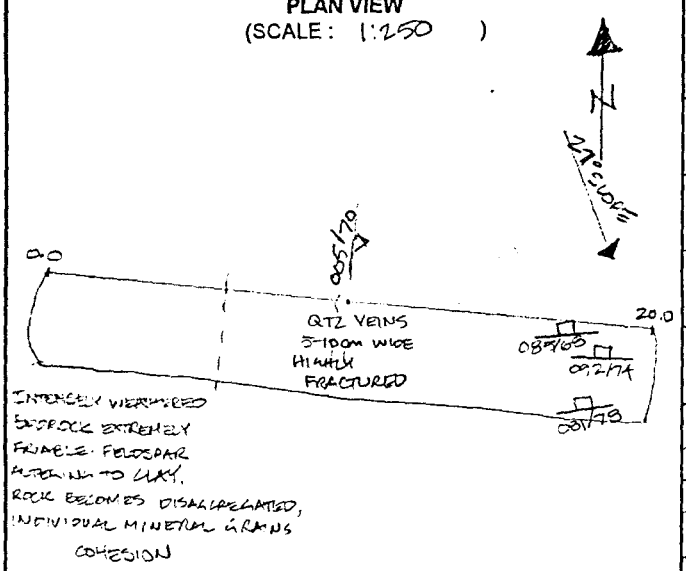
DIMENSIONS

AVERAGE DEPTH	4.5	m
AVERAGE WIDTH	3.0	m
LENGTH	20.0	m
VOLUME	270.0	Cu.m
	353.14	Cu.yd

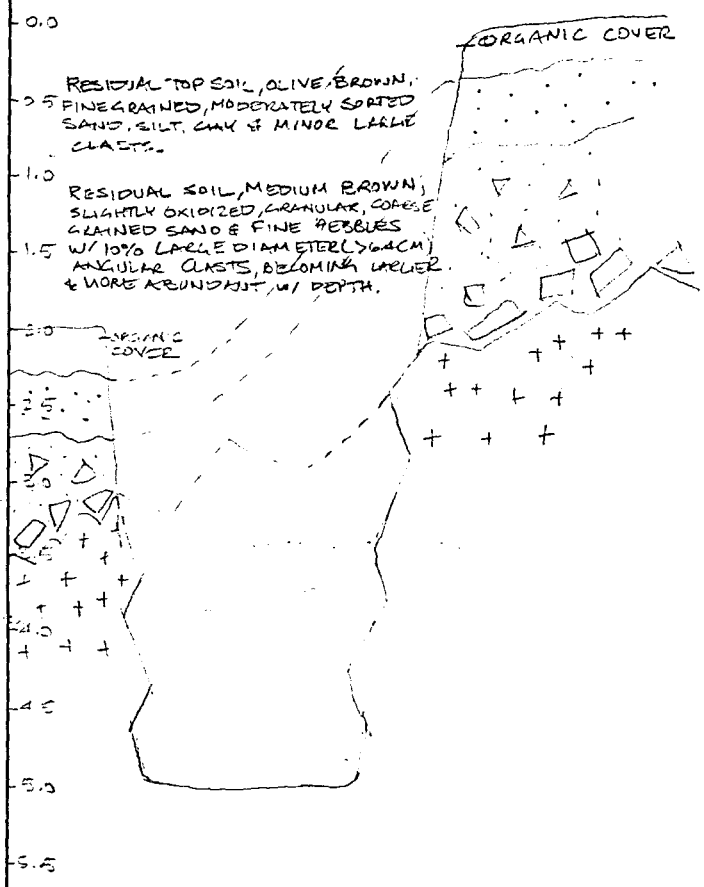
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.5	68.75
GEOTECH	27.50	2.5	68.75
ROAD CONST.	130.00	1.42	184.60
TRENCHING	2.00 Cu/d		706.28
BACKFILLING	2.00 Cu/d		706.28
TOTAL EXPENDITURES			1724.66

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL _____

PLACER GRAVEL _____

ROCK _____

COMMENTS / DESCRIPTIONS: _____

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 4
CREEK NAME: CASINO
TYPE: CREEK

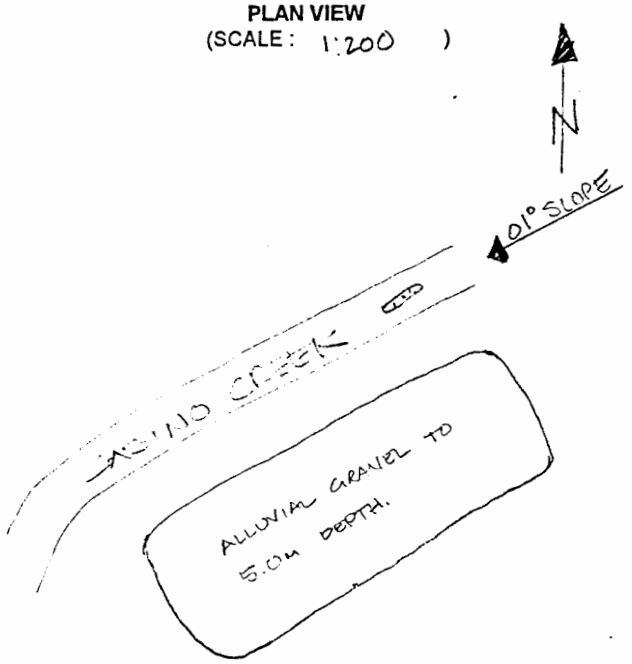
PIT IDENTIFICATION NUMBER: TP94-66

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	5.0	m
EASTING		m	AVERAGE WIDTH	4.0	m
ELEVATION	740	m	LENGTH	10.0	m
AZIMUTH	062	deg.	VOLUME	200.0	Cu.m
INCLINATION	01 → 242	deg.		261.59	Cu.yd

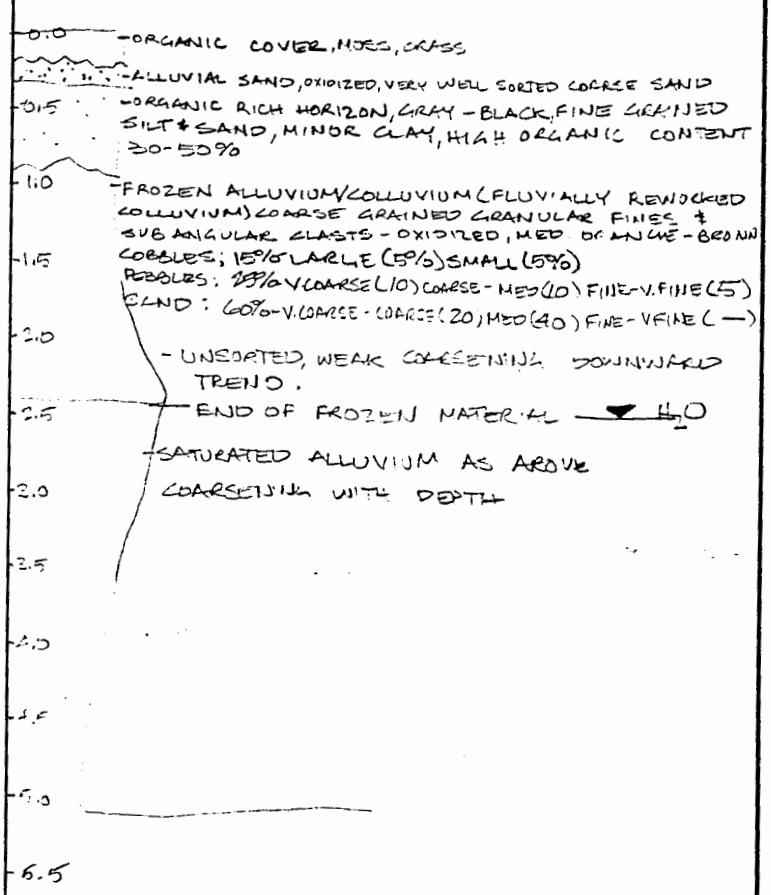
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.75	75.63
GEOTECH	27.50	2.75	75.63
ROAD CONST.	130.00	0.17	22.10
TRENCHING	$2.00 Cu/yd		523.18
BACKFILLING	$2.00 Cu/yd		523.18
TOTAL EXPENDITURES			1222.72

PLAN VIEW
(SCALE : 1:200)



TRENCH PROFILE
(SCALE : 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL TP94-66PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DE RIPTION
CASINO PROPERTY

CLAIM NAME.:
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-67

URVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	700	m
AZIMUTH	050.	deg.
INCLINATION	3.5 → 231	deg.

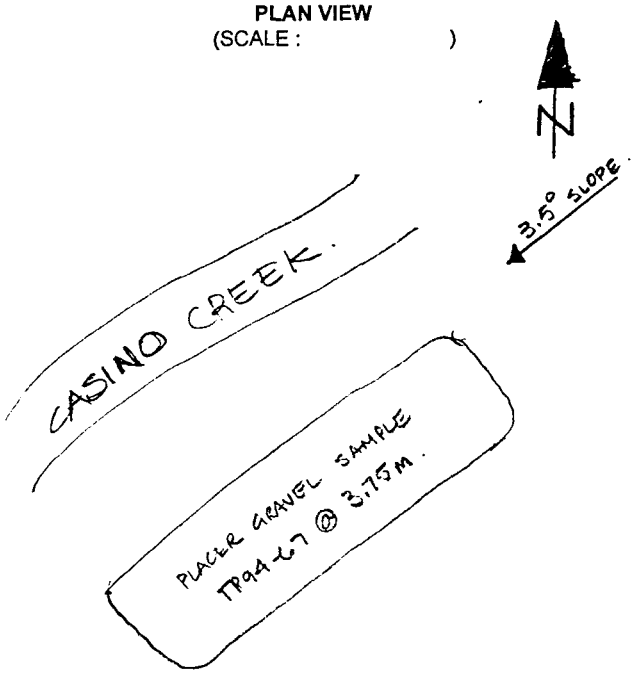
DIMENSIONS

AVERAGE DEPTH	4.0	m
AVERAGE WIDTH	4.0	m
LENGTH	14.0	m
VOLUME	224.0	Cu.m
	293.0	Cu.yd

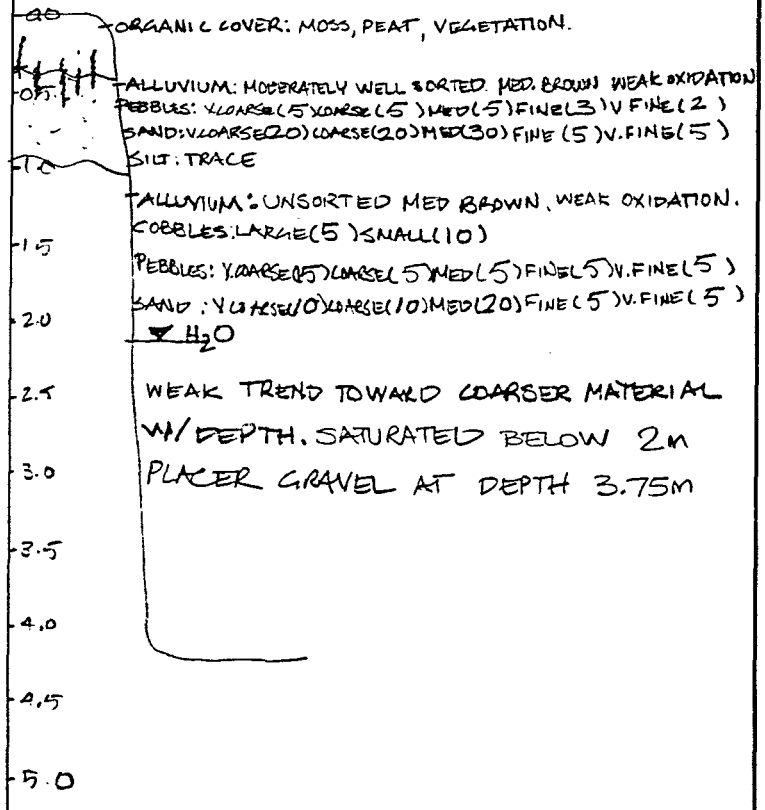
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.5	68.75
GEOTECH	27.50	2.5	68.75
ROAD CONST	130.00	0.25	32.50
TRENCHING	2.00 Cuyd		586.00
BACKFILLING	2.00 Cuyd		586.00
TOTAL EXPENDITURES			1342.0

PLAN VIEW
(SCALE :)



TRENCH PROFILE
(SCALE : 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL TP94-67PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST P.. DESCRIPTION
CASINO PROPERTY

CLAIM NAME: CASE 9
CREEK NAME: CASINO
TYPE: CREEK

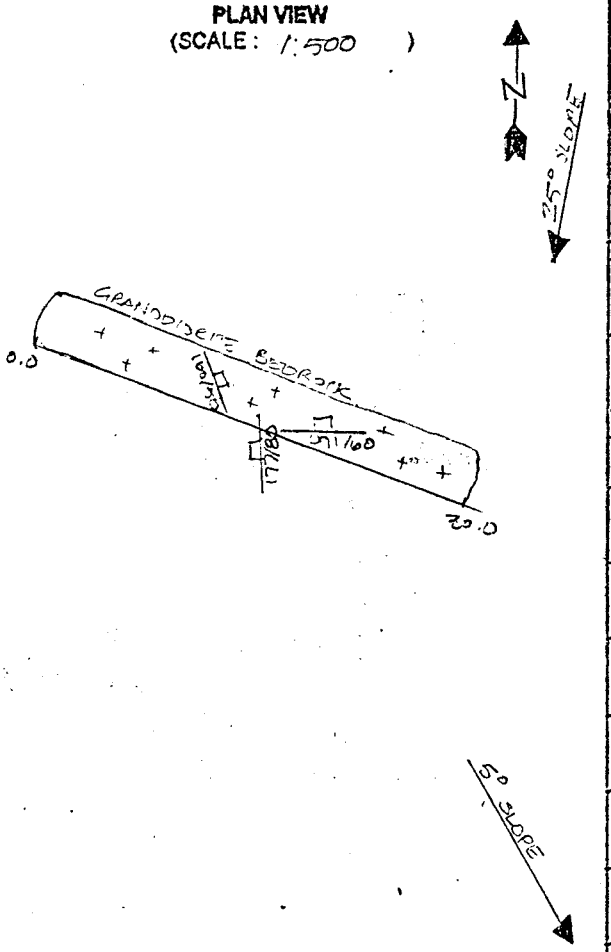
PIT IDENTIFICATION NUMBER: TP94-68

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	3.5	m
EASTING	m	AVERAGE WIDTH	3.5	m
ELEVATION	720 m	LENGTH	30.0	m
AZIMUTH	112° deg.	VOLUME	367.5	Cu.m
INCLINATION	25° → 190° deg.		480.67	Cu.yd

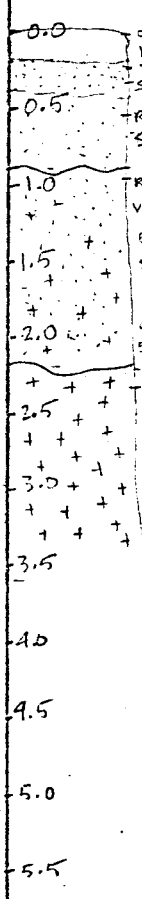
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	3.0	82.50
GEOTECH	27.50	3.0	82.50
ROAD CONST	130.00	0.25	32.50
TRENCHING	$2.00 Cu/yd		961.34
BACKFILLING	$2.00 Cu/yd.		761.34
TOTAL EXPENDITURES			2120.18

PLAN VIEW
(SCALE : 1:500)



TRENCH PROFILE
(SCALE : 1:50)



0.0 ORGANIC COVER, VERY LITTLE MOSS, MORE ORGANIC DEBRIS & JUNIPER. (SMALL GREEN LEAVES, RED BERRIES.
TOP SOIL (RESIDUAL) OXIDIZED, WELL SORTED, ORANGE BROWN SEE BELOW FOR SIZE FRACTIONS
0.5 RESIDUAL SOIL: LIGHT ORANGE BROWN, WELL SORTED, GRANULAR SEE BELOW FOR GRAIN SIZE DISTRIBUTION.
1.0 RESIDUAL BEDROCK - DISAGGREGATED INSITU BEDROCK. VERY COARSE ANGULAR PEBBLES & SMALL COBBLES OF BEDROCK BOUND IN A MATRIX OF VERY COARSE SAND SIZE TO COARSE PEBBLE SIZE FRAGMENTS & INDIVIDUAL MINERAL GRAINS OF BEDROCK THAT ARE NO LONGER COHESIVE. THE ROCK IS FRIABLE AND CRUMBLES EASILY IN THE HAND.
2.0 BEDROCK. HIGHLY FRACTURED, COARSE GRAINED HORNBLENDE RICH (20%) DIORITIC INTRUSIVE. BREAKS APART EASILY BY HAND INTO VERY COARSE PEBBLE & SMALL COBBLE SIZE CHUNKS. OVERALL THE ROCK IS VERY SOFT W/ POSSIBLE CLAY ALTERATION OF THE FELDSPARS. COLOUR IS GENERALLY GREYISH W/ RED BROWN NON PERVASIVE STAINING. THERE IS NO SINGLE DOMINANT, STRUCTURAL FEATURE, HOWEVER THERE ARE A FEW NOTICEABLE FRACTURE PLANES TRENDING. 091°/60° NE
177/80 SW
160/50 NE

SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: RESIDUAL TOP SOIL PEBBLES V.COARSE - COARSE (-) MED (5%) F - V.FINE (10%)
SAND V.COARSE - COARSE (10) MED (10) FINE - V.FINE (60)
SILT 5%

RESIDUAL SOIL PEBBLES V.COARSE (2%) COARSE (3%) MED (5%) FINE (5%) V.FINE (10%)
SAND : V.COARSE (30%) COARSE (30%) MED (10%) FINE - V.FINE (5%)

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 6 8
CREEK NAME: CASINO
TYPE: CREEK

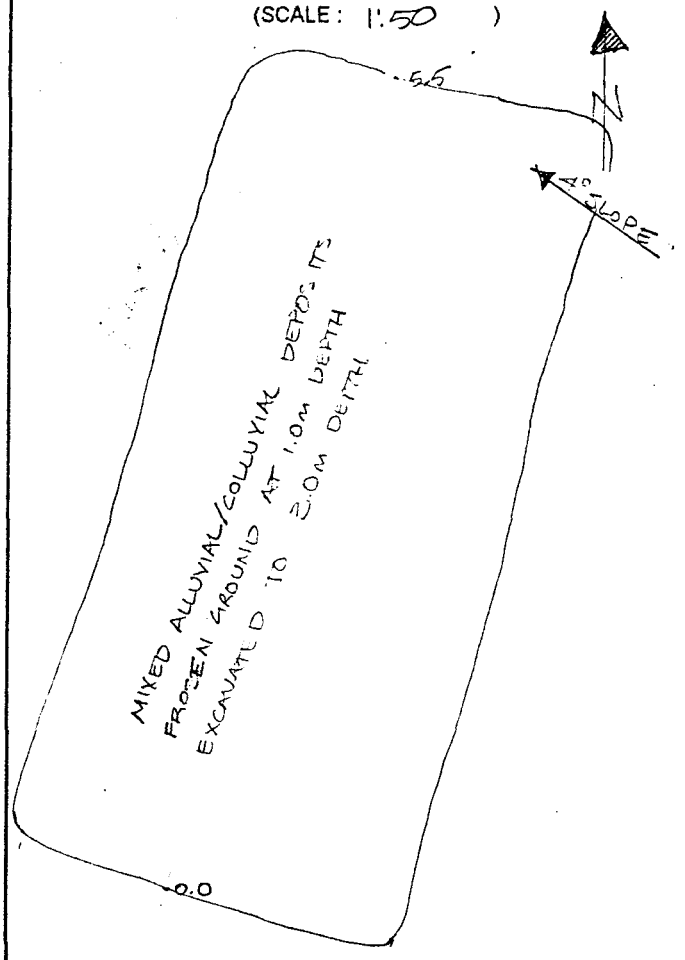
PIT IDENTIFICATION NUMBER: TP94-69

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	5.0	m
EASTING	m	AVERAGE WIDTH	2.5	m
ELEVATION	725 m	LENGTH	5.5	m
AZIMUTH	015° deg.	VOLUME	41.25	Cu.m
INCLINATION	4° → 305° deg.		53.95	Cu.yd

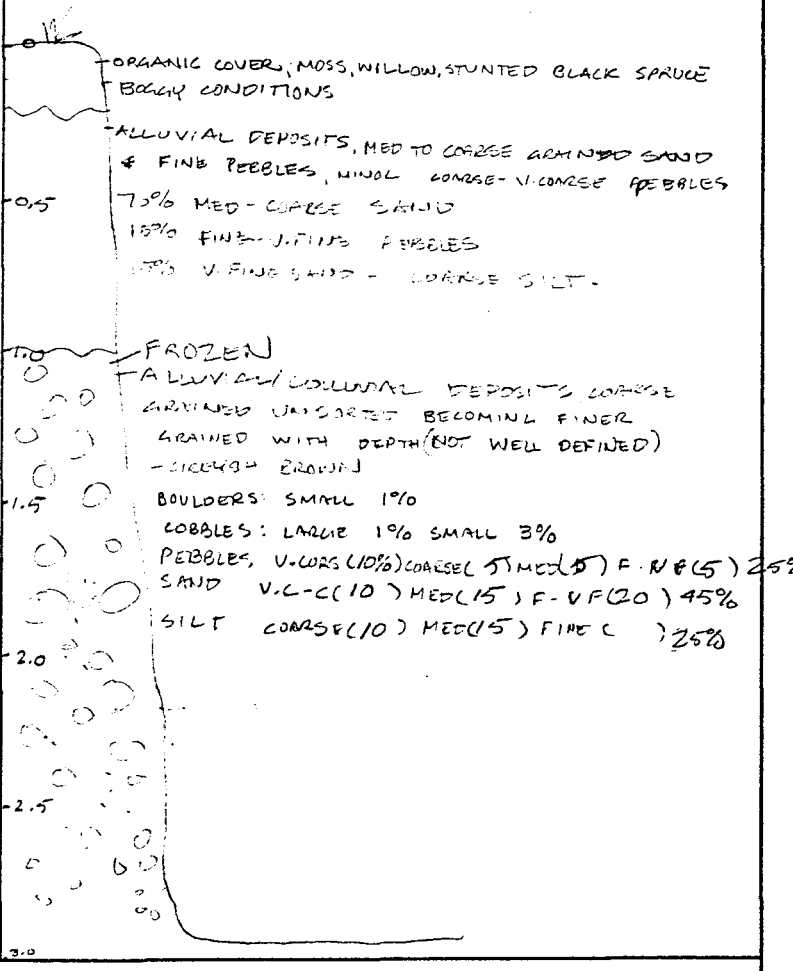
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	$ 27.50	1.25	34.38
GEOTECH	$ 27.50	1.25	34.38
ROAD CONST	$ 130.00	0.50	65.00
TRENCHING	$ 2.00 Cu/yd		107.90
BACKFILLING	$ 2.00 Cu/yd		107.90
TOTAL EXPENDITURES			349.56

PLAN VIEW
(SCALE : 1:50)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 6
CREEK NAME: CASINO
TYPE: CREEK

IDENTIFICATION NUMBER: TP94-70

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	715	m
AZIMUTH	045°	deg.
INCLINATION	02° → 208°	deg.

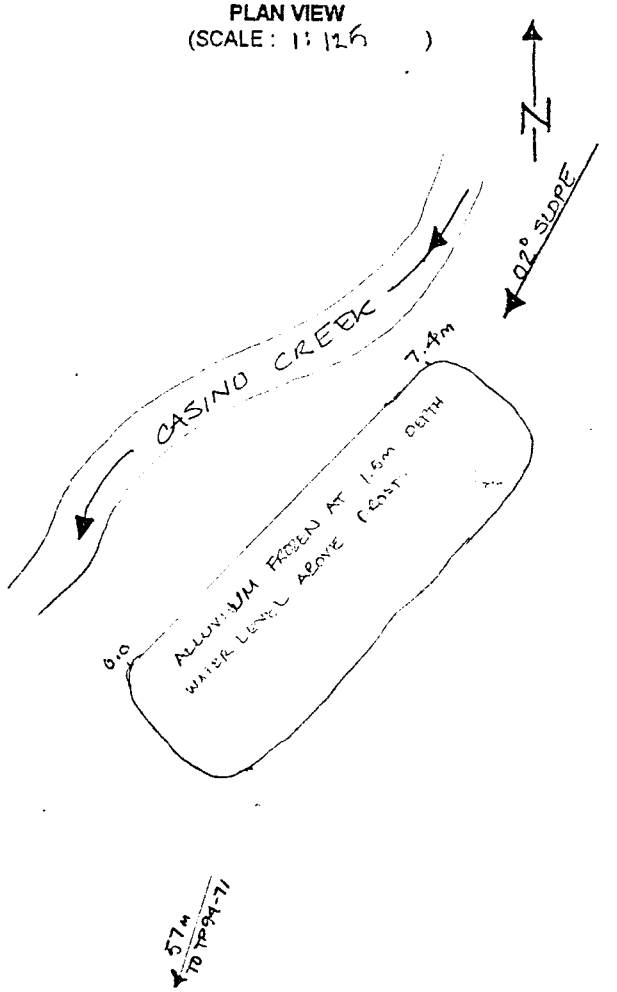
DIMENSIONS

AVERAGE DEPTH	2.4	m
AVERAGE WIDTH	2.6	m
LENGTH	7.4	m
VOLUME	46.18	Cu.m
	60.40	Cu.yd

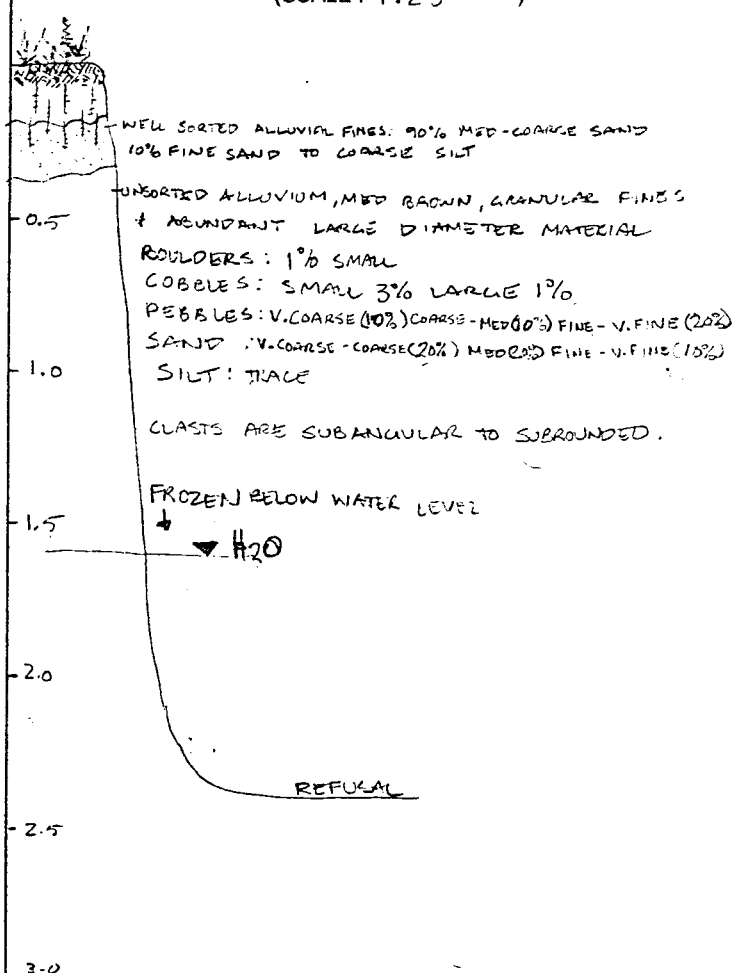
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.17	32.18
GEOTECH	27.50	1.17	32.18
ROAD CONST	130.00	0.33	42.90
TRENCHING	$1.00 Cu/yd		120.80
BACKFILLING	$2.00 Cu/yd		120.80
TOTAL EXPENDITURES			348.86

PLAN VIEW
(SCALE : 1:125)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: THIS TRENCH IS IN AN AREA THAT HAD BEEN STRIPPED OF VEGETATION APPROX 5 YEARS AGO CAUSING A CHANGE IN THE FROST CONDITIONS. NORMALLY WATER RUNS BELOW THE FROZEN LAYER. IN THIS CASE THE WATER WAS ON TOP OF THE FROZEN LAYER.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 6
CREEK NAME: CASINO
TYPE: CREEK

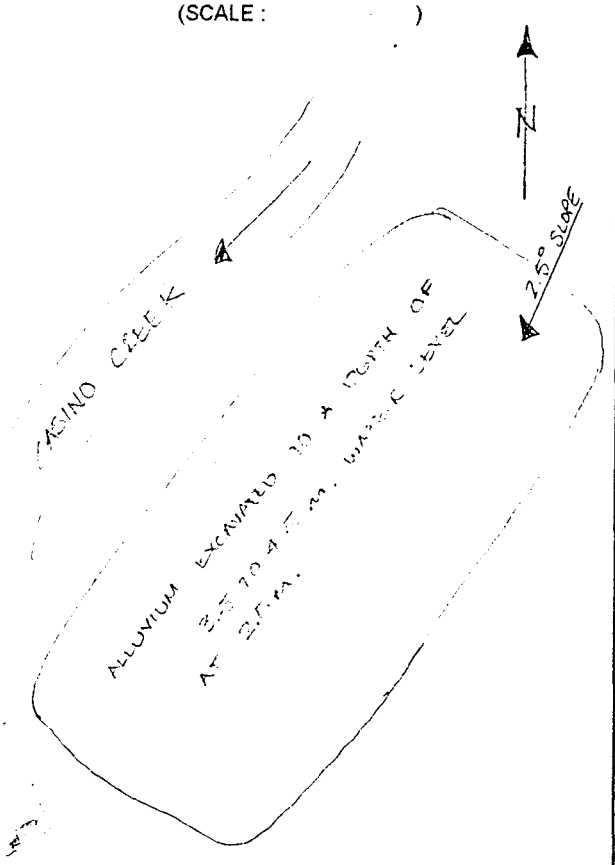
PIT IDENTIFICATION NUMBER: TP94-71

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	3.0	m
EASTING		m	AVERAGE WIDTH	4.0	m
ELEVATION	710	m	LENGTH	8.4	m
AZIMUTH		deg.	VOLUME	131.04	Cu.m
INCLINATION	2.5° → 203°	deg.		171.37	Cu.yd

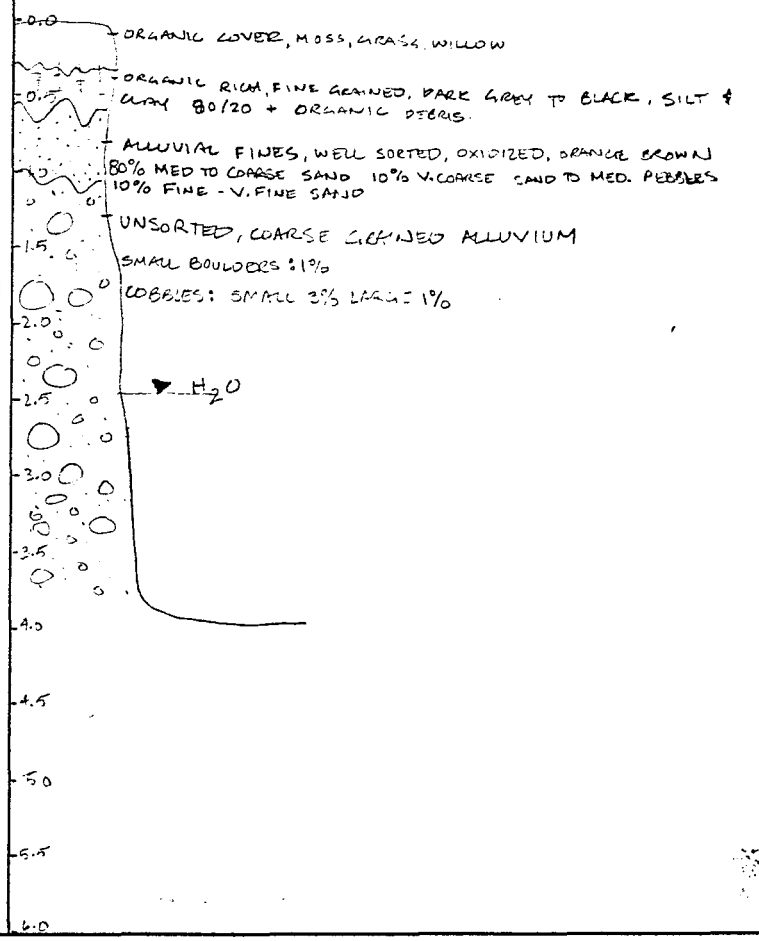
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST.	130.00	0.17	22.10
TRENCHING	$2.00 Cu yd		342.78
BACKFILLING	$2.00 Cu yd.		342.78
TOTAL EXPENDITURES			762.66

PLAN VIEW
(SCALE :)



TRENCH PROFILE
(SCALE : 1 : 50)



SAMPLE NUMBERS:

PLACER CONCENTRATE	SOIL	
	~~PAN CONCENTRATE~~	TP94-71PL ?
	ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE6
CREEK NAME: CASINO
TYPE: CREEK

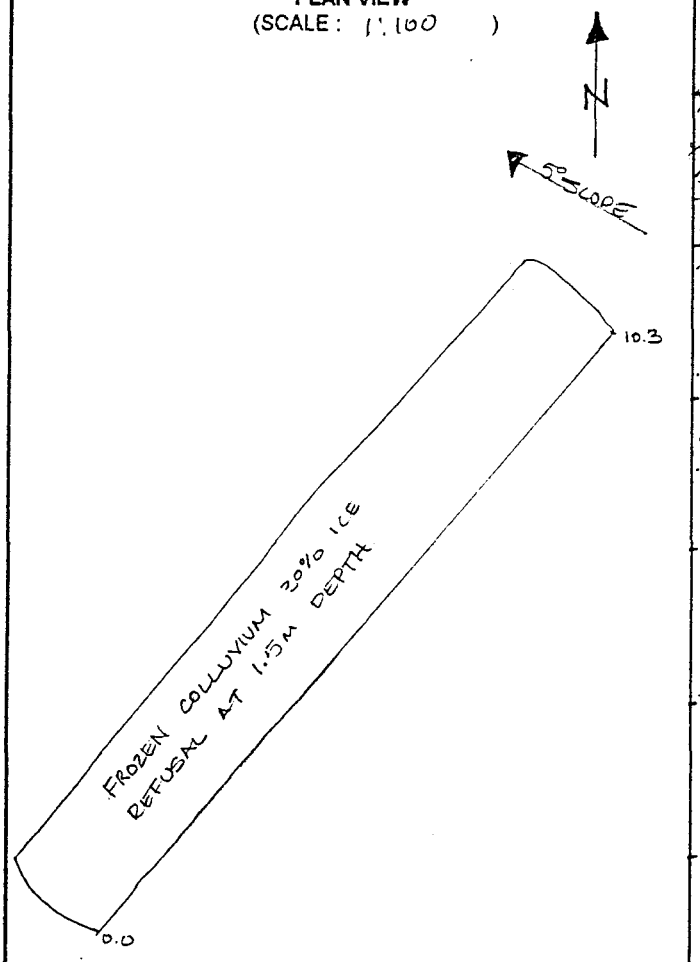
PIT IDENTIFICATION NUMBER: TP94-72

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.4	m
EASTING		m	AVERAGE WIDTH	1.5	m
ELEVATION	725	m	LENGTH	10.3	m
AZIMUTH	040°	deg.	VOLUME	21.63	Cu.m
INCLINATION	05° → 300°	deg.		28.27	Cu.yd

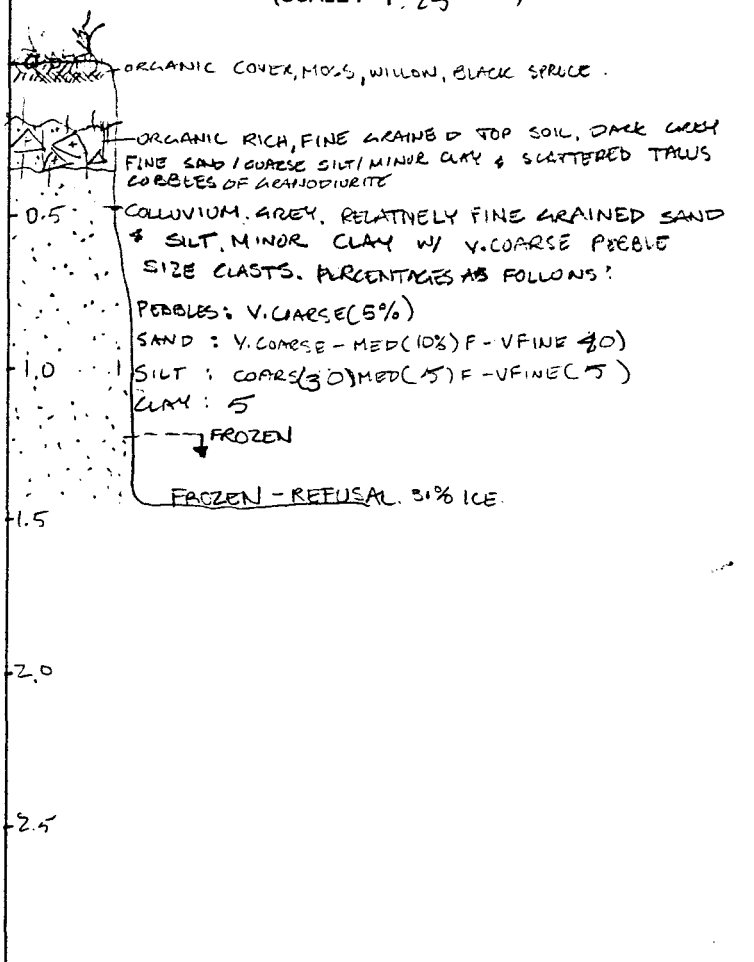
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST	130.00	0.25	32.50
TRENCHING	$1.50 Cu yd		56.58
BACKFILLING	$1.50 Cu yd		56.58
TOTAL EXPENDITURES			200.66

PLAN VIEW
(SCALE : 1:100)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 7
CREEK NAME: CASINO
TYPE: CREEK

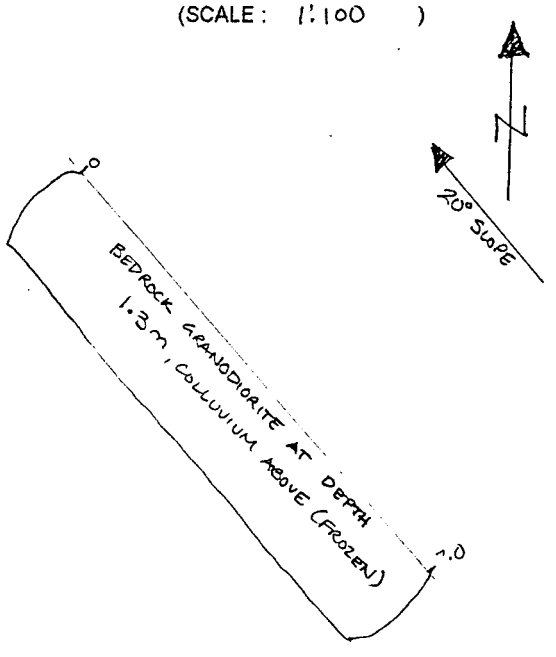
PIT IDENTIFICATION NUMBER: TP94-73

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.0	m
EASTING		m	AVERAGE WIDTH	1.3	m
ELEVATION	?	m	LENGTH	7.0	m
AZIMUTH	140°	deg.	VOLUME	9.1	Cu.m
INCLINATION	20° → 320°	deg.		11.90	Cu.yd

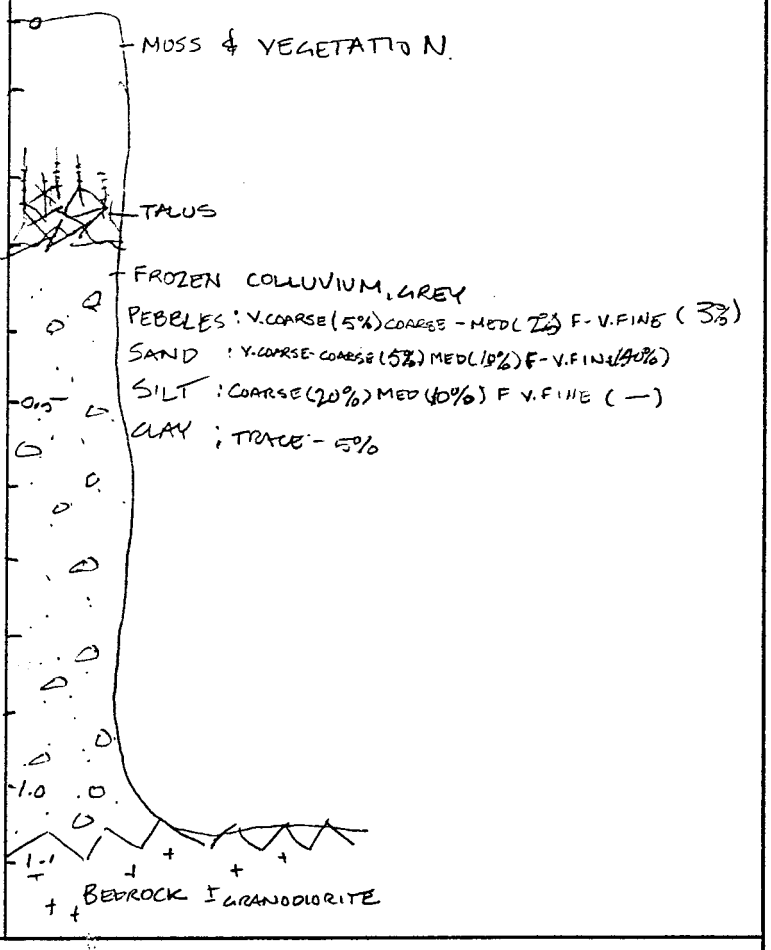
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEO TECH	27.50	1.0	27.50
ROAD CONST	130.00	0.5	65.00
TRENCHING	$2.00 Cu yd		23.80
BACKFILLING	$2.00 Cu yd		23.80
TOTAL EXPENDITURES			167.60

PLAN VIEW
(SCALE : 1:100)



TRENCH PROFILE
(SCALE : 1:10)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PI ESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE6
CREEK NAME: CASINO
TYPE: CREEK

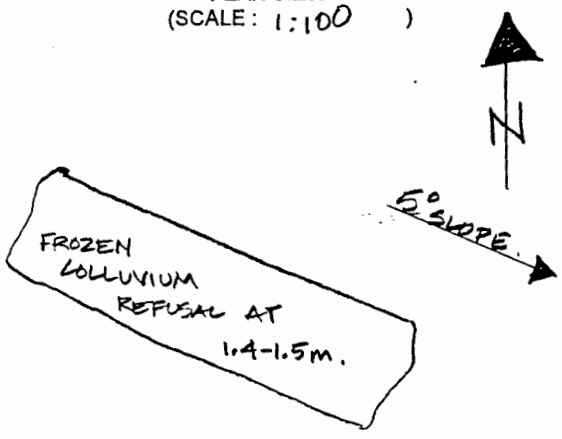
IT IDENTIFICATION NUMBER: TP94-74

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.35	m
EASTING	m	AVERAGE WIDTH	1.5	m
ELEVATION	m	LENGTH	5.0	m
AZIMUTH	114° deg.	VOLUME	10.13	Cu.m
INCLINATION	5° → 140° deg.		13.24	Cu.yd

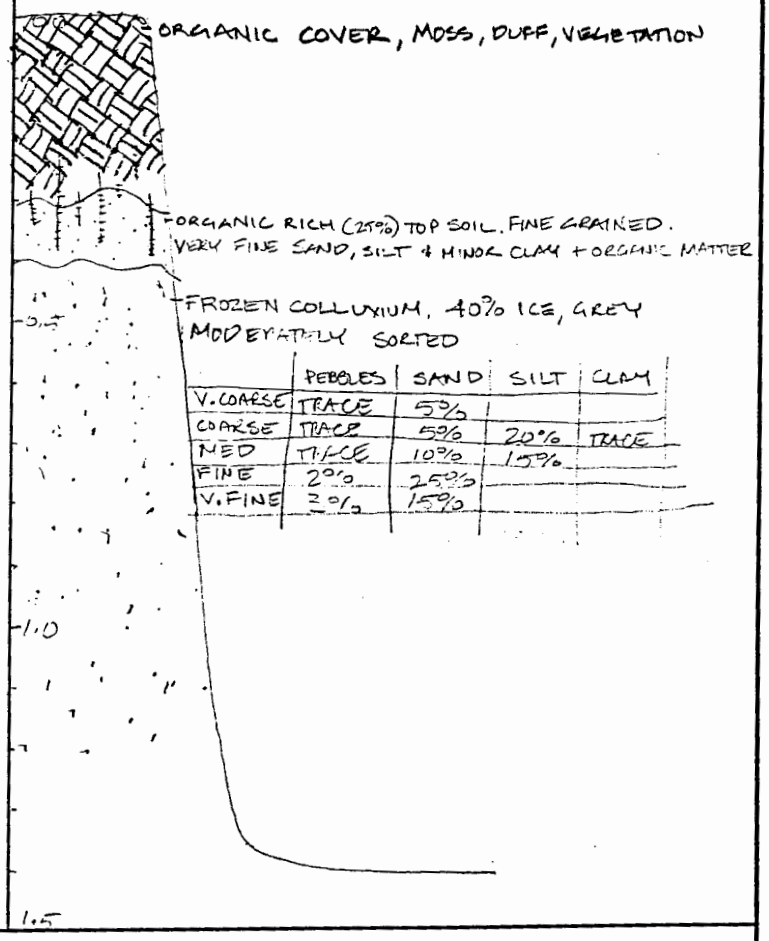
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.75	20.63
GEOTECH	27.50	0.75	20.63
ROAD CONST	130.00	0.08	10.79
TRENCHING	@1.50 Cu.yd		26.48
BACKFILLING	@1.50 Cu.yd		26.48
TOTAL EXPENDITURES			105.01

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:12.5)



	PEBBLES	SAND	SILT	CLAY
V.COARSE	TRACE	5%		
COARSE	TRACE	5%	20%	TRACE
MED	TRACE	10%	15%	
FINE	20%	25%		
V.FINE	30%	15%		

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PI. ESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 6
CREEK NAME: CASINO
TYPE: CREEK

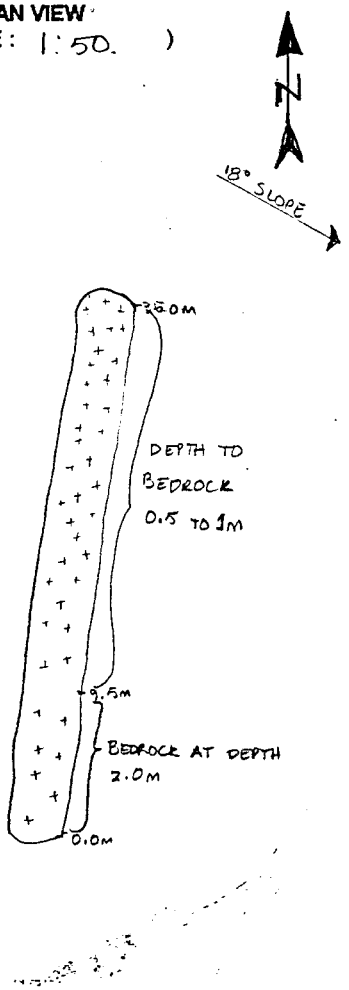
PIT IDENTIFICATION NUMBER: TP94-75

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	3.5	m
EASTING	m	AVERAGE WIDTH	2.7	m
ELEVATION	m	LENGTH	35.0	m
AZIMUTH	192° deg.	VOLUME	330.75	Cu.m
INCLINATION	18° → 120° deg.		432.60	Cu.yd

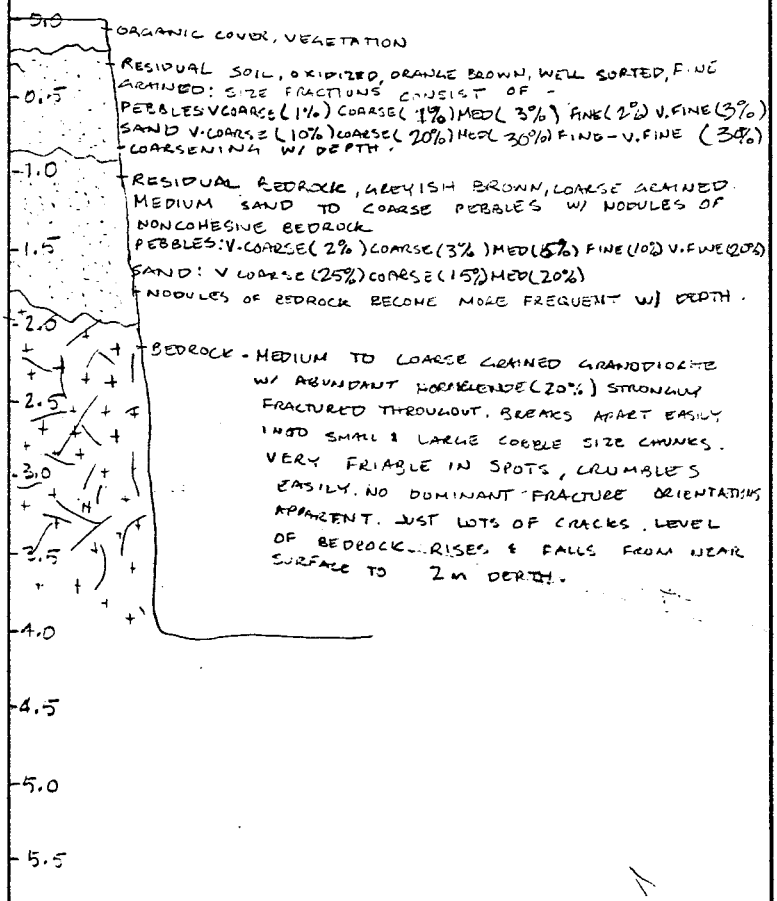
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	$ 27.50	2.67	73.43
GEOTECH	$ 27.50	2.67	73.43
ROAD CONST	$/ 30.00	0.67	87.10
TRENCHING	$ 2.00 Cu yd		865.20
BACKFILLING	$ 2.00 Cu yd		865.20
TOTAL EXPENDITURES			1964.36

PLAN VIEW
(SCALE : 1:50.)



TRENCH PROFILE
(SCALE : 1:50)



SAMPLE NUMBERS:

SOIL: TP94-75 RESIDUAL
PAN CONCENTRATE:
ROCK:

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 5
CREEK NAME: CASINO
TYPE: CREEK

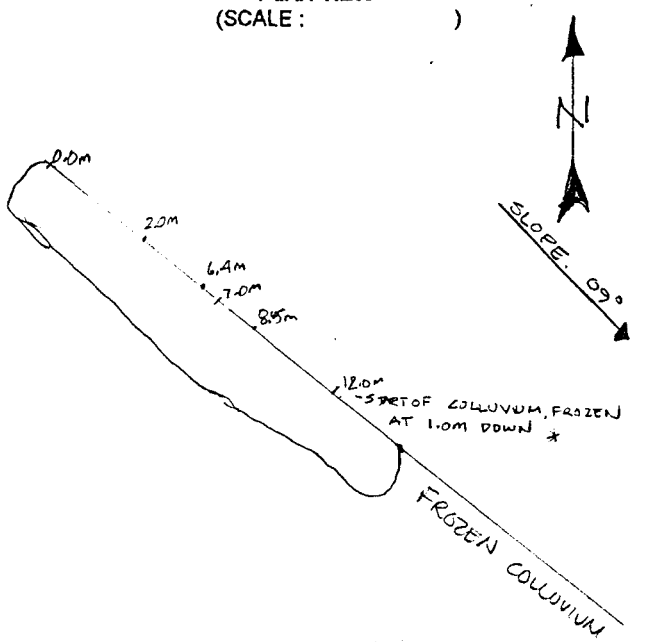
PIT IDENTIFICATION NUMBER: TP94-76

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	2.0	m
EASTING	m	AVERAGE WIDTH	2.0	m
ELEVATION ~705	m	LENGTH	15.0	m
AZIMUTH 130°	deg.	VOLUME	60.0	Cu.m
INCLINATION 9° → 138°	deg.		78.48	Cu.yd

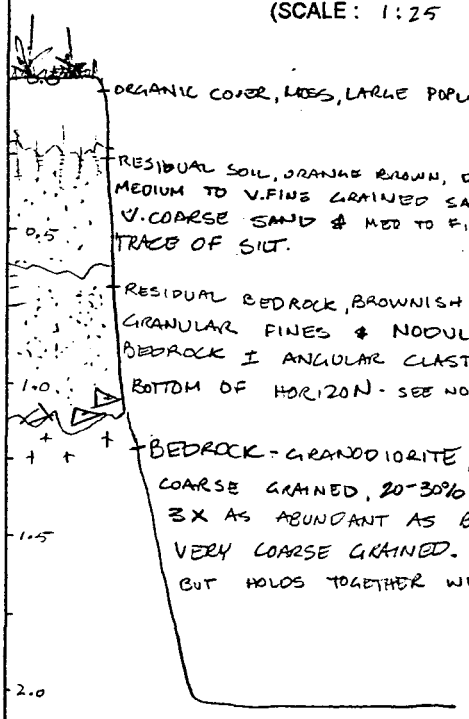
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.33	36.58
GEOTECH	27.50	1.33	36.58
ROAD CONST.	130.00	0.5	165.00
TRENCHING	$2.00 Cu yd		156.96
BACKFILLING	$2.00 Cu yd		156.96
TOTAL EXPENDITURES			452.08

PLAN VIEW
(SCALE:)



TRENCH PROFILE
(SCALE: 1:25)



0.0-2.0m - 1m DEPTH= BEDROCK COMPETENT & RESISTANT TO EXCAVATION

2.0-6.4m DEPTH INCREASES TO 2m COMPETENT BEDROCK AT 1.5m THICKNESS OF FRIABLE/FRACTURED BEDROCK INCREASING

6.4-7.0m TRENCH DEEPENS TO 2.5m COMPETENT ROCK AT 2m FRIABLE ROCK ABOVE 1.5m THICK.

7.0-8.5 COMPETENT ROCK AT BOTTOM OF TRENCH FRIABLE/FRAC ROCK 2m THICK ABOVE. H_2O RUNNING IN AT CONTACT BETWEEN COMPETENT ROCK & BROKEN ROCK.

SAMPLE NUMBERS:

SOIL TP94-76 RESIDUAL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS: * RESIDUAL BEDROCK - THICKNESS OF THIS MATERIAL VARIES FROM 50cm TO 1m IN PLACES & CAN APPEAR ON THE TRENCH WALL TO BE COMPETENT ROCK BUT IS IN FACT INTENSELY FRACTURED & EXTREMELY FRIABLE AND CRUMBLES EASILY BY HAND.

** AT 4m ALONG THE TRENCH FRIABLE/FRACTURED BEDROCK OVERLAIN BY COLLUVIUM, GREYISH MODERATELY SORTED FINE TO COARSE SAND, MINOR SILT & FINE SAND MINOR PEBBLES & LARGER CLASTS TYPICAL OF THIS AREA. FROST DEPTH DECREASE FROM 1.0m TO JUST BELOW MOSS OVER @ 3m PAST END OF TRENCH

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 4
CREEK NAME: CASINO
TYPE: CREEK

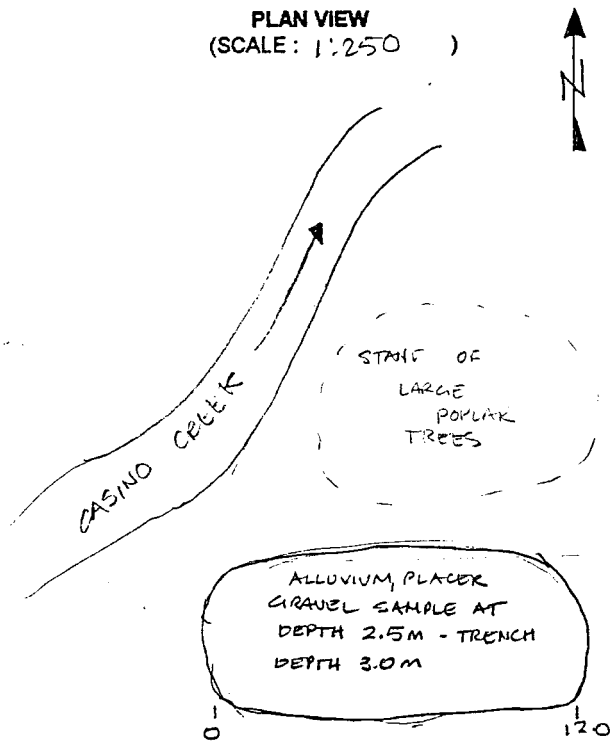
PIT IDENTIFICATION NUMBER: TP94-77

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	3.0	m
EASTING	m	AVERAGE WIDTH	6.0	m
ELEVATION	705 m	LENGTH	12.0	m
AZIMUTH	090° deg.	VOLUME	216.0	Cu.m
INCLINATION	deg.		282.52	Cu.yd

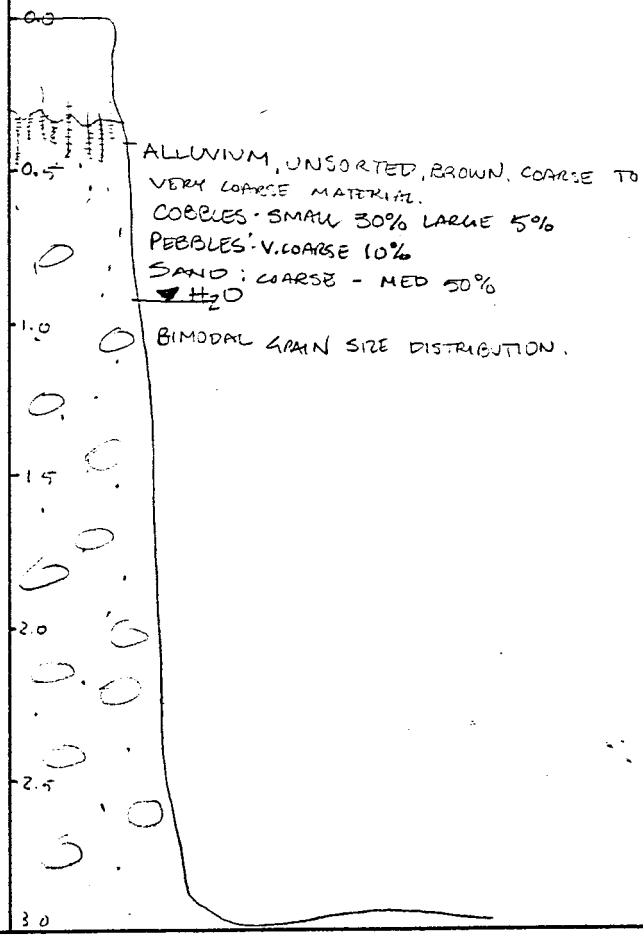
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.33	36.58
GEOTECH	27.50	1.33	36.58
ROAD CONST	130 00	0.17	22.10
TRENCHING	$2.00 Cu/yd		565.09
BACKFILLING	$2.00 Cu/yd		565.09
TOTAL EXPENDITURES			1225.34

PLAN VIEW
(SCALE : 1:250)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

PLACER GRAVEL

SOIL
~~PAN CONCENTRATE~~ TP94-77PL PLACER GRAVEL 2.5m DEPTH
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PI. DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 5
CREEK NAME: CASINO
TYPE: CREEK

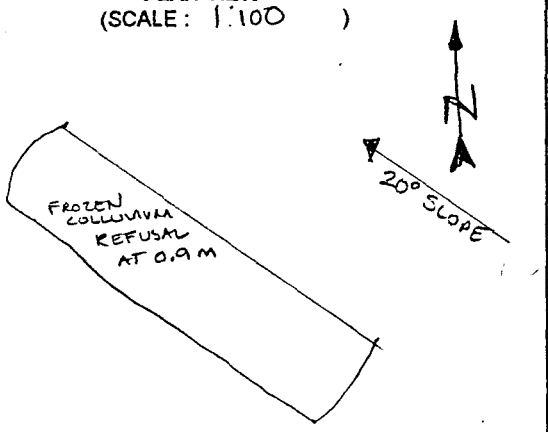
PIT IDENTIFICATION NUMBER: TP04-78

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	0.9	m
EASTING	m	AVERAGE WIDTH	1.2	m
ELEVATION	m	LENGTH	5.0	m
AZIMUTH	126° deg.	VOLUME	5.4	Cu.m
INCLINATION	20° → 30° deg.		7.06	Cu.yd

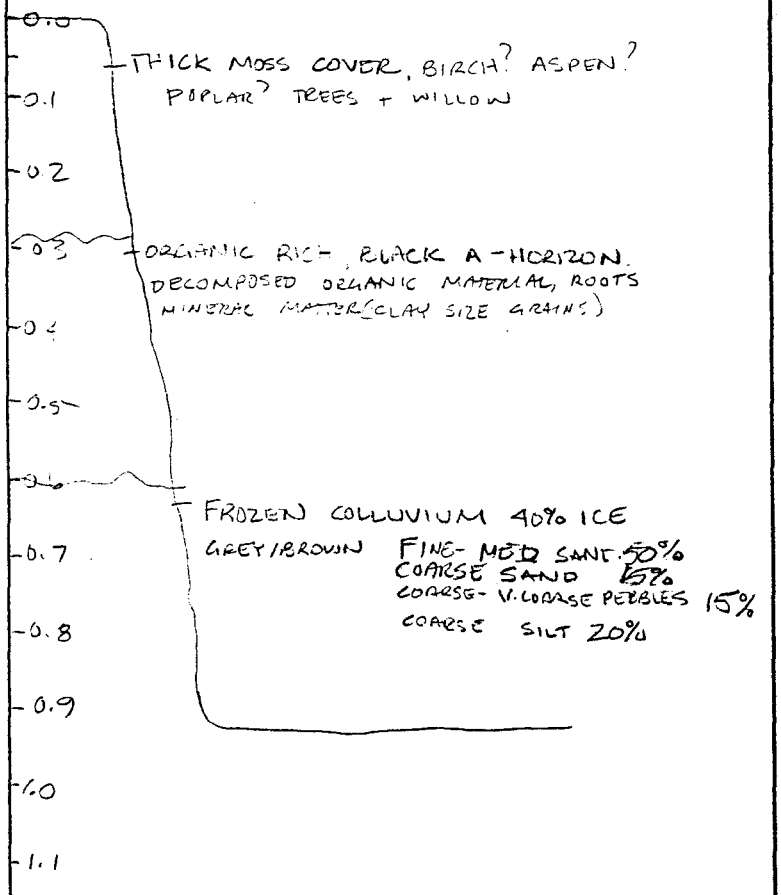
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST	130.00	0.42	54.60
TRENCHING	$1.50 Cuyd		14.12
BACKFILLING	$1.50 Cuyd.		14.12
TOTAL EXPENDITURES			137.84

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:10)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 4
CREEK NAME: CASINO
TYPE: CREEK.

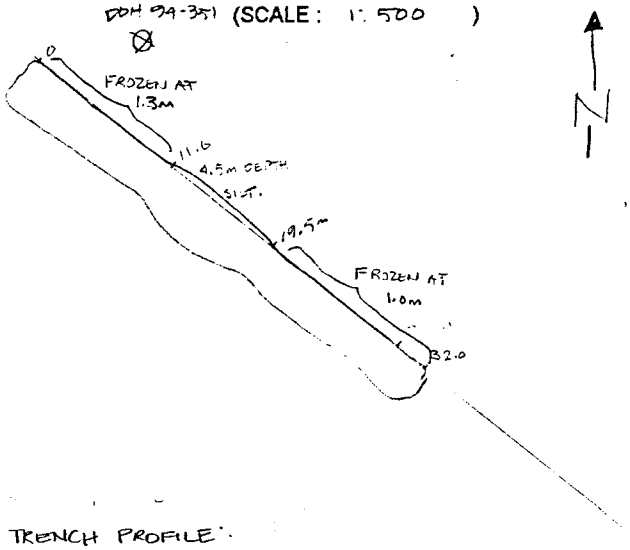
PIT IDENTIFICATION NUMBER: TP94-79

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	2.0	m
EASTING	m	AVERAGE WIDTH	2.3	m
ELEVATION	700 m	LENGTH	32.6	m
AZIMUTH	130° deg.	VOLUME	SEE BELOW	Cu.m
INCLINATION	deg.			Cu.yd

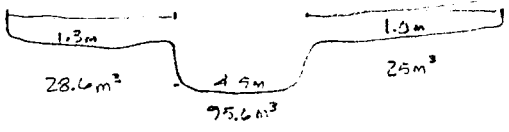
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST	130.00	0.083	10.79
TRENCHING	SEE BELOW		355.25
BACKFILLING	SEE BELOW		355.25
TOTAL EXPENDITURES			831.29

PLAN VIEW
DDH 94-351 (SCALE: 1:500)

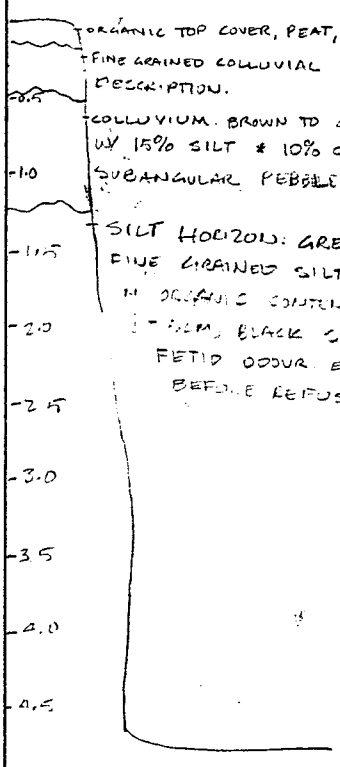


TRENCH PROFILE:



CHARGES. 23.6m³ + 25m³ @ 1.50 cu yd = 70.11 cu yd $105.17
95.6m³ @ 2.00 cu yd = 125.04 cu yd $250.08
TRENCHING = 355.25 BACKFILL 355.25
$\frac{\frac{1}{2}(1.3)+(0.5\times 4.5\sqrt{2}+1.0)}{32} = 14.3 \times 32.25 = 461.5$

TRENCH PROFILE
(SCALE: 1:50)



ORGANIC TOP COVER, PEAT, MOSS, DECAYED MATTER

FINE GRAINED COLLUVIAL TOP SOIL - SEE BELOW FOR DESCRIPTION.

COLLUVIUM: BROWN TO GREY, GRANULAR MED TO COARSE SAND W/ 15% SILT & 10% COARSE TO VERY COARSE ANGULAR TO SUBANGULAR PEBBLES.

SILT HORIZON: GREY, VERY WELL SORTED MEDIUM TO FINE GRAINED SILT 95% & 5% CLAY. POSSIBLY HIGH ORGANIC CONTENT DUE TO PRESENCE OF [illegible] 1-2cm, BLACK STREAKS & LAYERS. ALSO HAS A FETID ODOUR EXCAVATED TO A DEPTH OF 4.5M BEDROCK REFUSAL IN THIS MATERIAL.

SAMPLE NUMBERS:

SOIL: TP94-79 FROM SILT MATERIAL
PLACER GRAVEL:
ROCK:

COMMENTS / DESCRIPTIONS: - FINE GRAINED COLLUVIAL TOP SOIL: MIXED COLOURS GREY BLACK BROWN IN LAYERS: BLACK LAYERS VERY FINE GRAINED SILT W/ HIGH ORGANIC CONTENT (30%) GREY LAYERS ARE MED SILT & VERY FINE SAND (10% ORGANICS) BROWN LAYERS ARE FINE SAND & COARSE SILT W/ TRACE ORGANICS. LARGER ANGULAR CLASTS (COARSE TO V. COARSE PEBBLES) 5%.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 4
CREEK NAME: CASINO
TYPE: CREEK

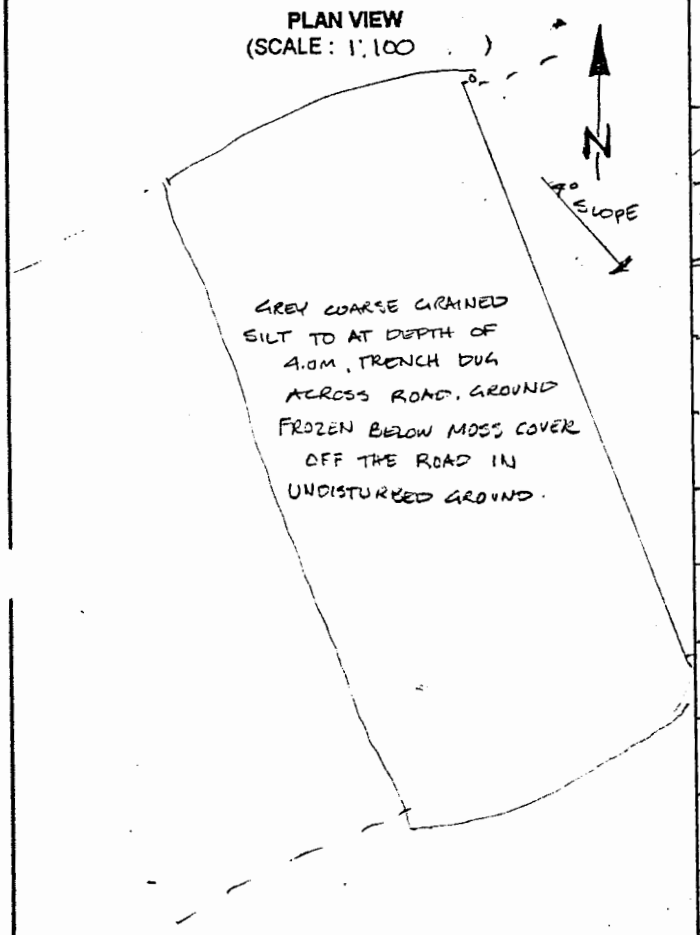
PIT IDENTIFICATION NUMBER: TP94-80

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	4.5	m
EASTING		m	AVERAGE WIDTH	4.0	m
ELEVATION	700	m	LENGTH	8.8	m
AZIMUTH	160°	deg.	VOLUME	158.4	Cu.m
INCLINATION	4° → 140	deg.		207.18	Cu.yd

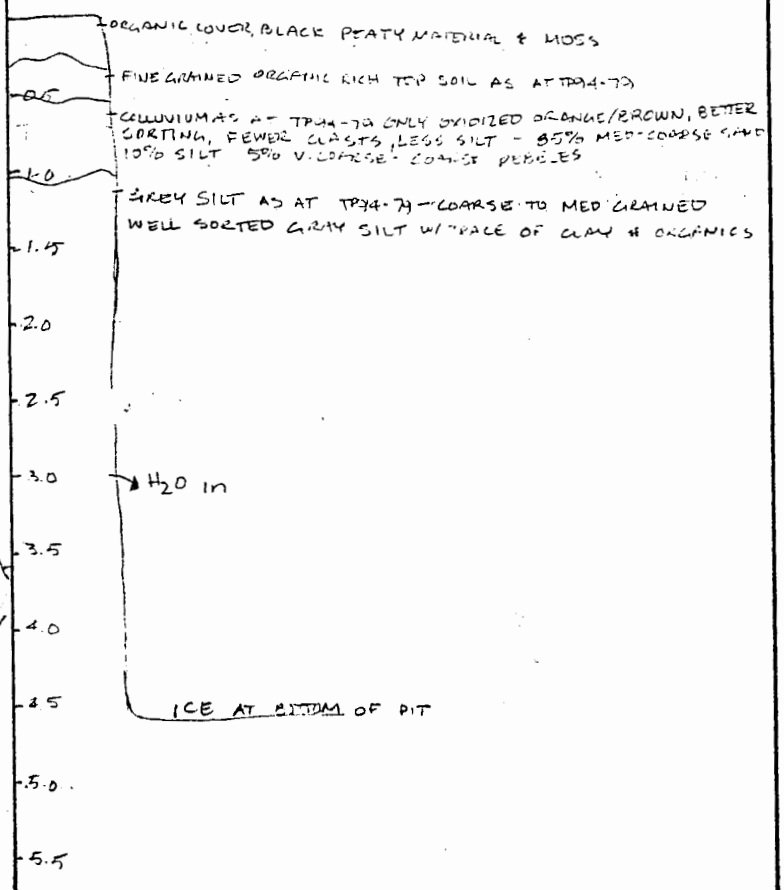
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	0.75	20.63
GEOTECH	27.50	0.75	20.63
ROAD CONST	130.00	—	—
TRENCHING	$2.00 cu yd		414.36
BACKFILLING	$2.00 cu yd		414.36
TOTAL EXPENDITURES			869.98

PLAN VIEW
(SCALE : 1:100)



TRENCH PROFILE
(SCALE :)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 4
CREEK NAME: CASINO
TYPE: CREEK

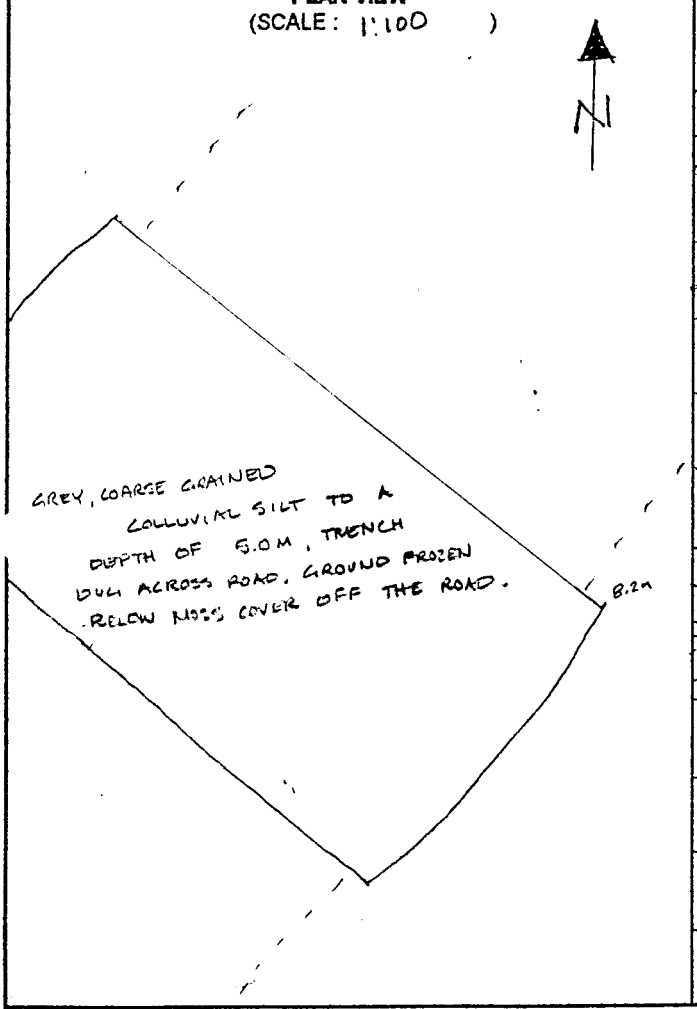
TEST PIT IDENTIFICATION NUMBER: TP94-81

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	5.0	m
EASTING		m	AVERAGE WIDTH	4.7	m
ELEVATION	700	m	LENGTH	8.2	m
AZIMUTH	130°	deg.	VOLUME	192.7	Cu.m
INCLINATION		deg.		252.04	Cu.yd

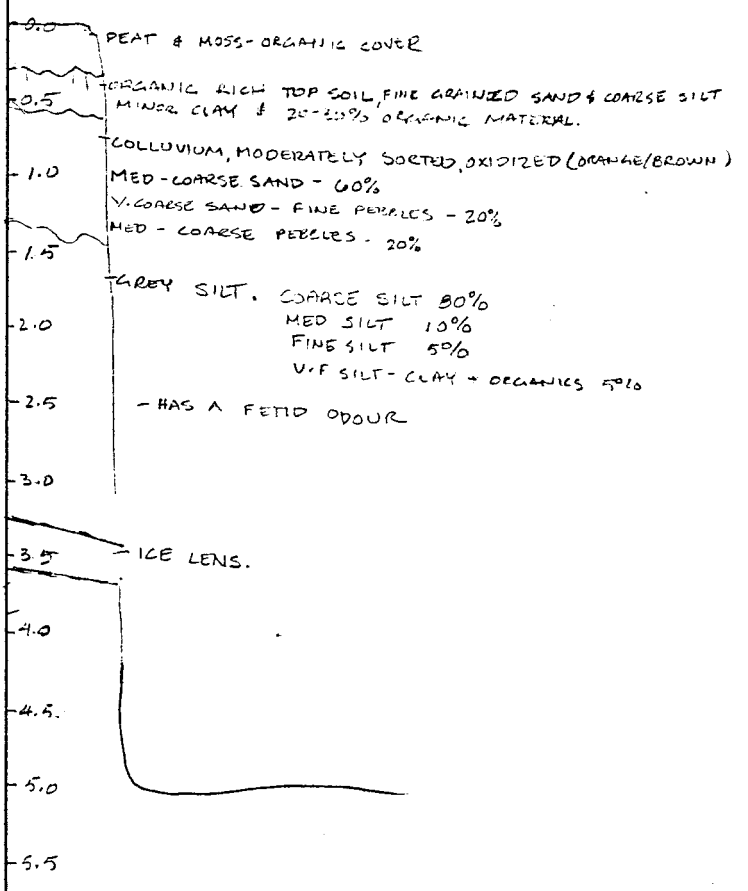
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST	130.00	—	—
TRENCHING	$2.00 Cu yd		504.08
BACKFILLING	$2.00 Cu yd.		504.08
TOTAL EXPENDITURES			1063.16

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 3
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP74-82

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	700	m
AZIMUTH	130°	deg.
INCLINATION		deg.

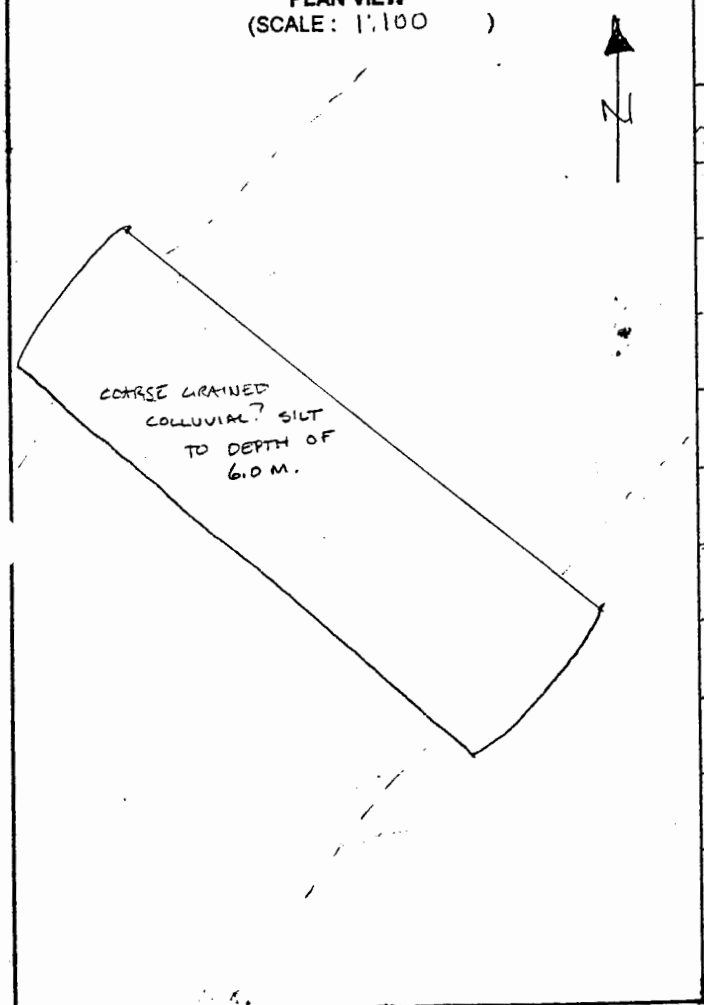
DIMENSIONS

AVERAGE DEPTH	6.0	m
AVERAGE WIDTH	2.5	m
LENGTH	8.0	m
VOLUME	120.0	Cu.m
	156.95	Cu.yd

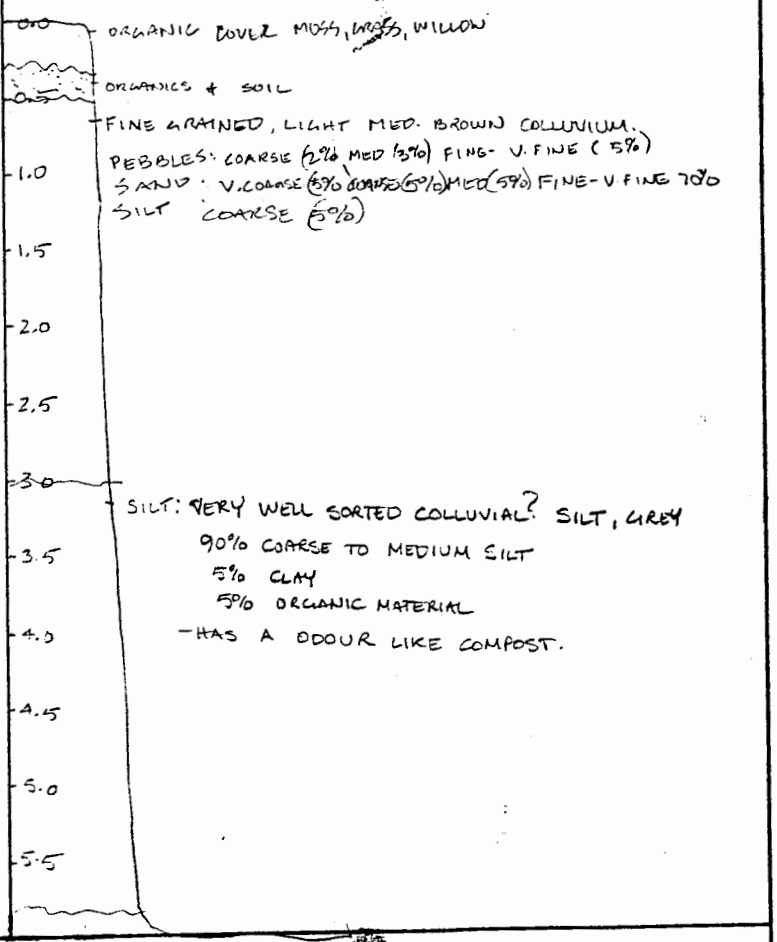
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.25	34.38
GEOTECH	27.50	1.25	34.38
ROAD CONST	130.00	—	
TRENCHING	$2.00 Cu/yd		313.90
BACKFILLING	$2.00 Cu/yd		313.90
TOTAL EXPENDITURES			696.56

PLAN VIEW
(SCALE: 1:100)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS: TRENCH DUG ACROSS ACCESS ROAD TO DRILL SITES AT TAILINGS DAM #2 - GROUND THAWED UNDER ROAD BUT FROZEN IN UNDISTURBED GROUND OFF THE ROAD

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 4
CREEK NAME: CASINO
TYPE: CREEK

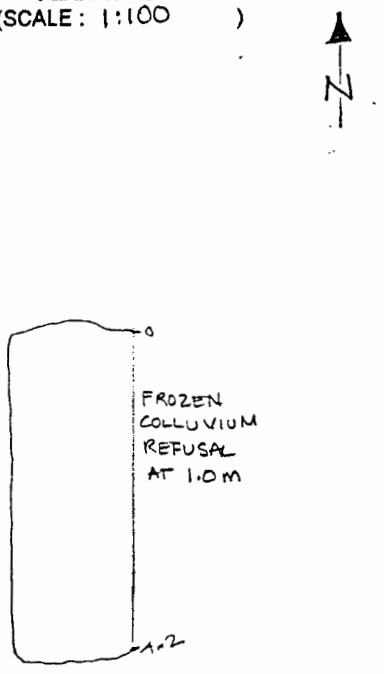
PIT IDENTIFICATION NUMBER: TP94-83

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.0	m
EASTING		m	AVERAGE WIDTH	1.5	m
ELEVATION	710	m	LENGTH	4.2	m
AZIMUTH	180°	deg.	VOLUME	6.3	Cu.m
INCLINATION		deg.		8.24	Cu.yd

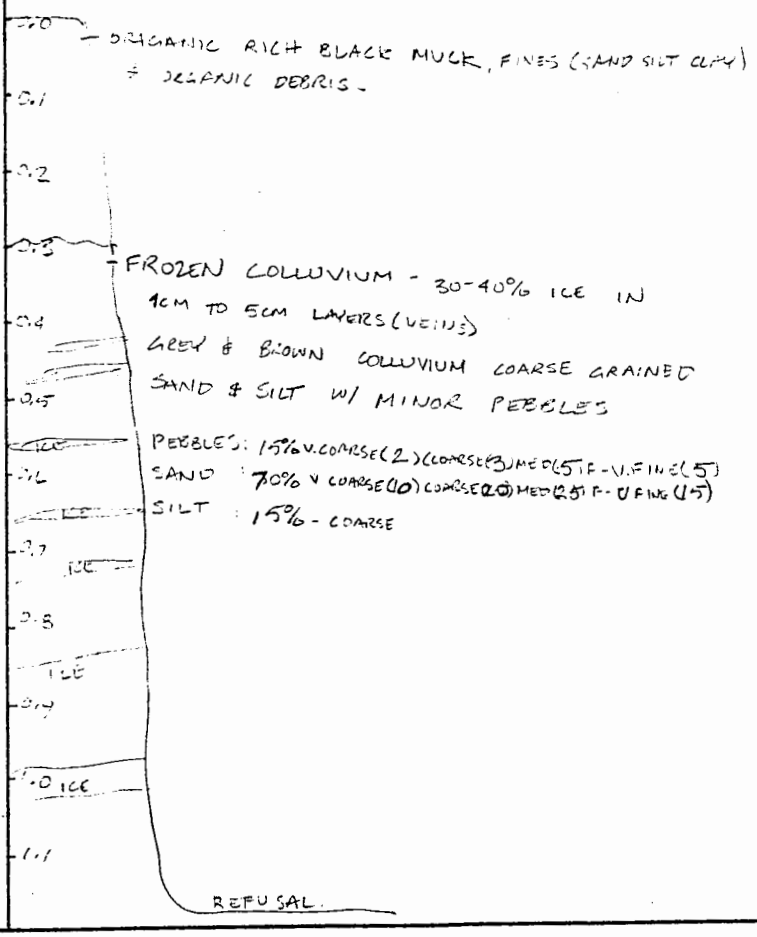
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	0.75	20.63
GEOTECH	27.50	0.75	20.63
ROAD CONST	130.00	0.083	10.79
TRENCHING	150 Cu yd		12.36
BACKFILLING	150 Cu yd		12.36
TOTAL EXPENDITURES			76.77

PLAN VIEW
(SCALE : 1:100)



TRENCH PROFILE
(SCALE : 1:10)



SAMPLE NUMBERS:

SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 1
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-84

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	700	m
AZIMUTH	092	deg.
INCLINATION	0	deg.

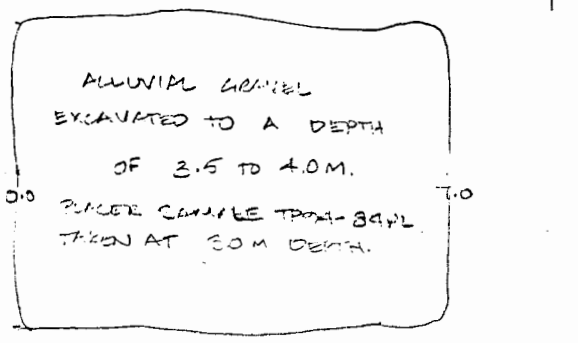
DIMENSIONS

AVERAGE DEPTH	3.7	m
AVERAGE WIDTH	5.0	m
LENGTH	7.0	m
VOLUME	129.5	Cu.m
	169.33	Cu.yd

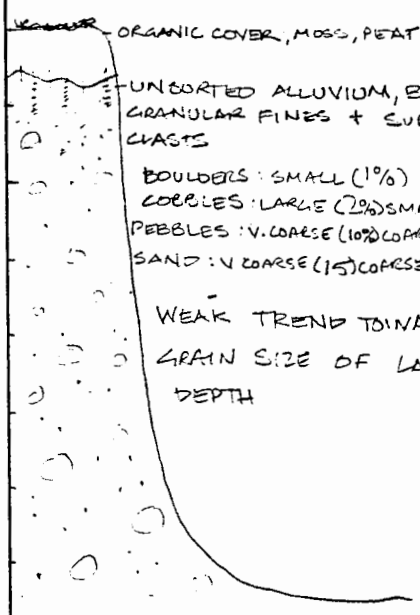
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
BRADCONST	130.00	—	
TRENCHING	2.00/CU YD		338.76
BACKFILLING	2.00/CU YD		338.76
TOTAL EXPENDITURES			

PLAN VIEW
(SCALE: 1:125)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP94-84PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST P. DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 1
CREEK NAME: CASINO
TYPE: CREEK

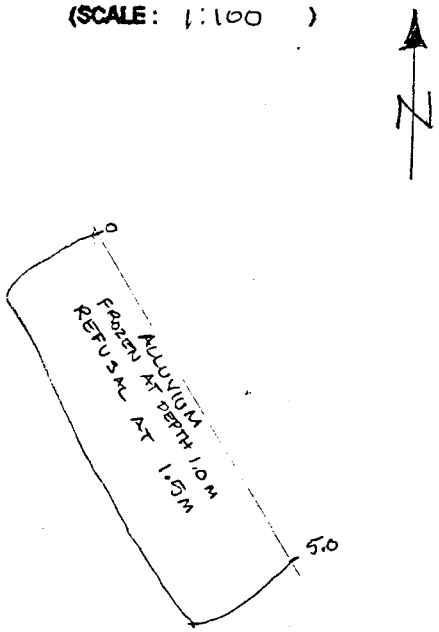
PIT IDENTIFICATION NUMBER: TP94-55

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	1.5	m
EASTING		m	AVERAGE WIDTH	1.5	m
ELEVATION	695	m	LENGTH	5.0	m
AZIMUTH	150	deg.	VOLUME	11.25	Cu.m
INCLINATION	0	deg.		14.71	Cu.yd

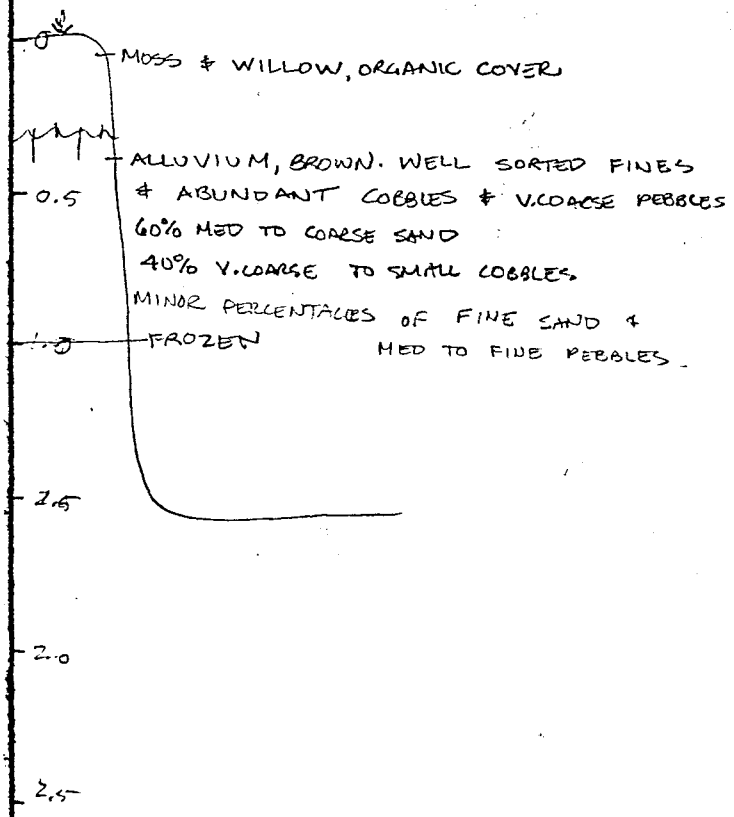
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.0	27.50
GEOTECH	27.50	1.0	27.50
ROAD CONST	130.00	0.083	10.79
TRENCHING	$1.50 Cu/yd		99.42
BACKFILLING	$1.50 Cu/yd		27.42
TOTAL EXPENDITURES			124.63

PLAN VIEW
(SCALE: 1:100)



SOIL PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:
SOIL
PAN CONCENTRATE
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CAST
CREEK NAME: CASINO
TYPE: CREEK

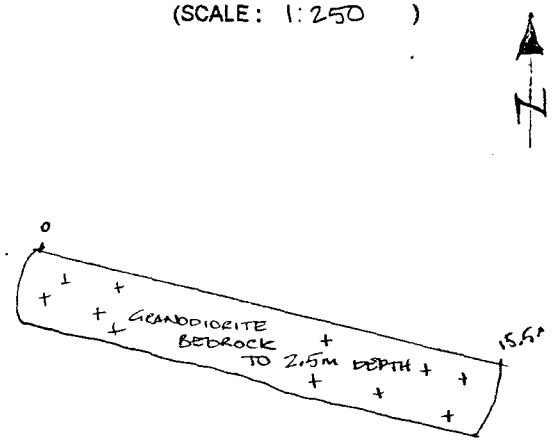
PIT IDENTIFICATION NUMBER: TP94-86

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	2.3	m
EASTING		m	AVERAGE WIDTH	2.5	m
ELEVATION	745	m	LENGTH	15.5	m
AZIMUTH	105°	deg.	VOLUME	89.1	Cu.m
INCLINATION		deg.		116.58	Cu.yd

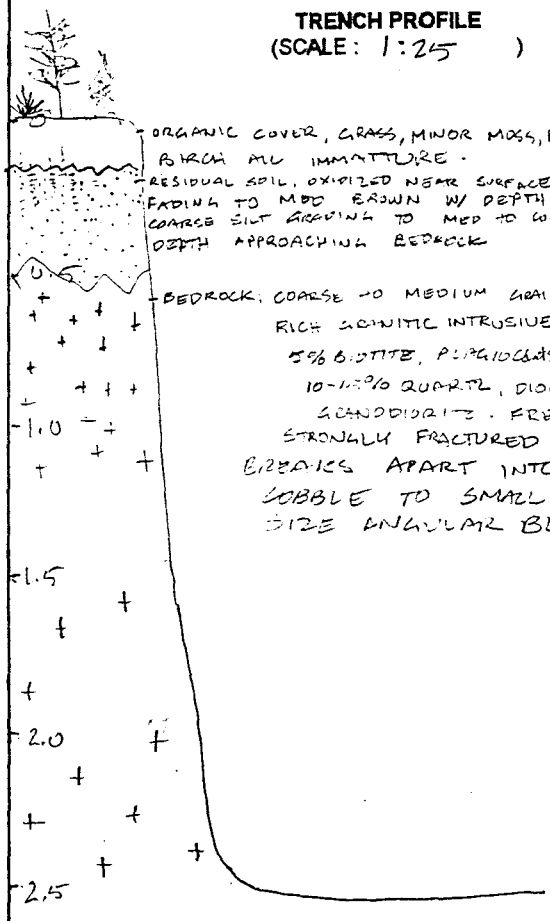
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.25	34.38
GEOTECH	27.50	1.25	34.38
ROAD CONST	130.00	0.17	22.10
TRENCHING	$2.00 (cu yd)		233.16
BACKFILLING	$2.00 Cu yd		233.16
TOTAL EXPENDITURES			557.18

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:25)



ORGANIC COVER, GRASS, MINOR MOSS, POPLAR, SPRUCE BIRCH ALL IMMATTURE.

RESIDUAL SOIL, OXIDIZED NEAR SURFACE ORANGE BROWN FADING TO MED BROWN W/ DEPTH FINE SAND & COARSE SILT GRADING TO MED TO COARSE SAND W/ DEPTH APPROACHING BEDROCK

BEDROCK, COARSE TO MEDIUM GRAINED HORNBLENDE RICH GRANITIC INTRUSIVE 20-25% HORNBLENDE 5% BIOTITE, PLAGIOCLASE, MINOR KSPAR 10-15% QUARTZ, DIORITE TO GRANODIORITE. FRESH, UNALTERED, STRONGLY FRACTURED & BLOCKY BREAKS APART INTO SMALL COBBLE TO SMALL BOULDER SIZE ANGULAR BLOCKS.

SAMPLE NUMBERS:
- SOIL
- PLACER GRAVEL
- ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 15
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP9A-97

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	750	m
AZIMUTH	095°	deg.
INCLINATION	13°-275°	deg.

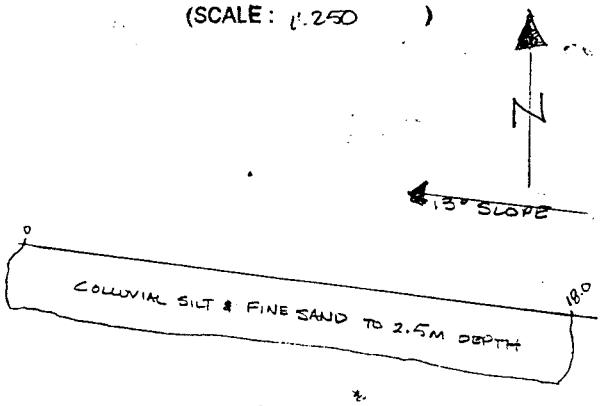
DIMENSIONS

AVERAGE DEPTH	2.5	m
AVERAGE WIDTH	2.3	m
LENGTH	18.0	m
VOLUME	103.5	Cu.m
	135.37	Cu.yd

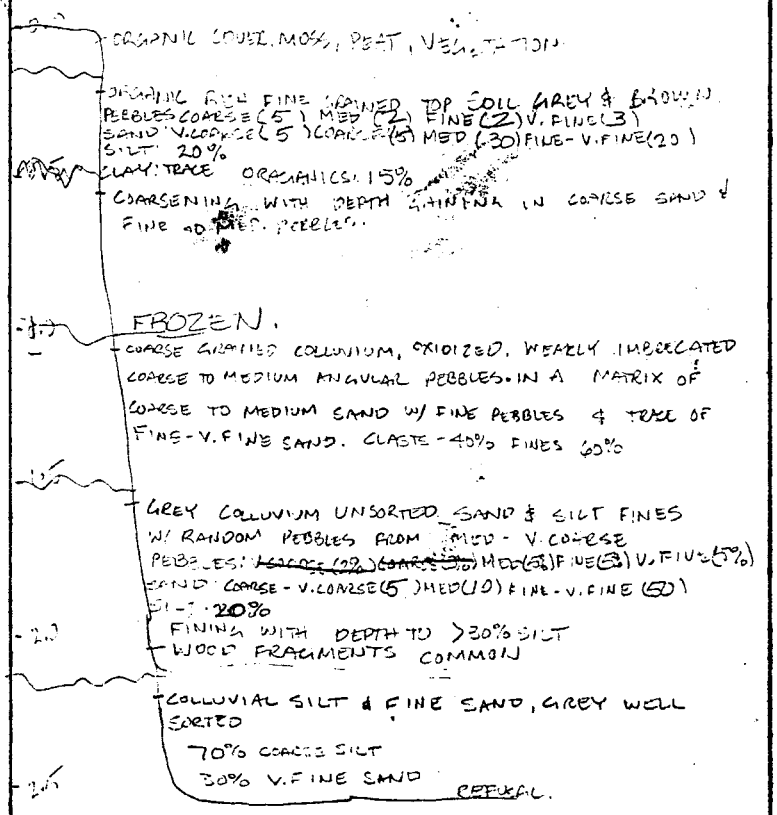
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	77.50	1.75	45.13
GEOTECH	77.50	1.75	43.13
BOBCAT/DUST	130.00	0.25	32.50
TRENCHING	$2.00 Cu/yd		270.74
BACKFILLING	$2.00 Cu/yd		270.74
TOTAL EXPENDITURES			670.24

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASEZO
CREEK NAME: CASINO
TYPE: CREEK

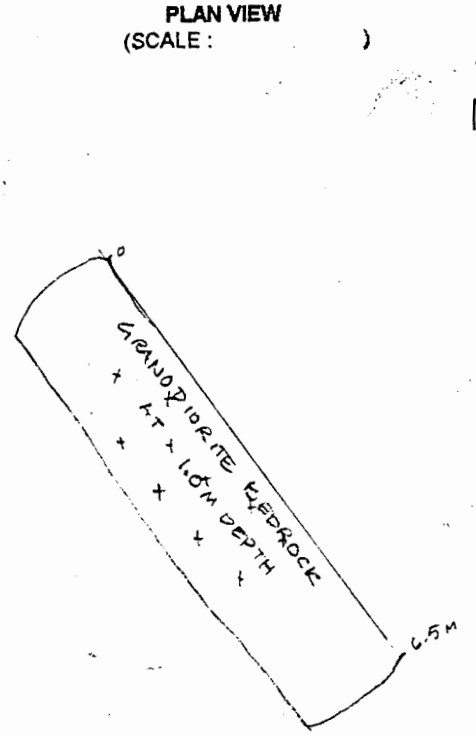
IDENTIFICATION NUMBER: TP94-BS

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.5	m
EASTING	m	AVERAGE WIDTH	1.5	m
ELEVATION	780 m	LENGTH	6.5	m
AZIMUTH	145° deg.	VOLUME	19.5	Cu.m
INCLINATION	deg.		25.50	Cu.yd

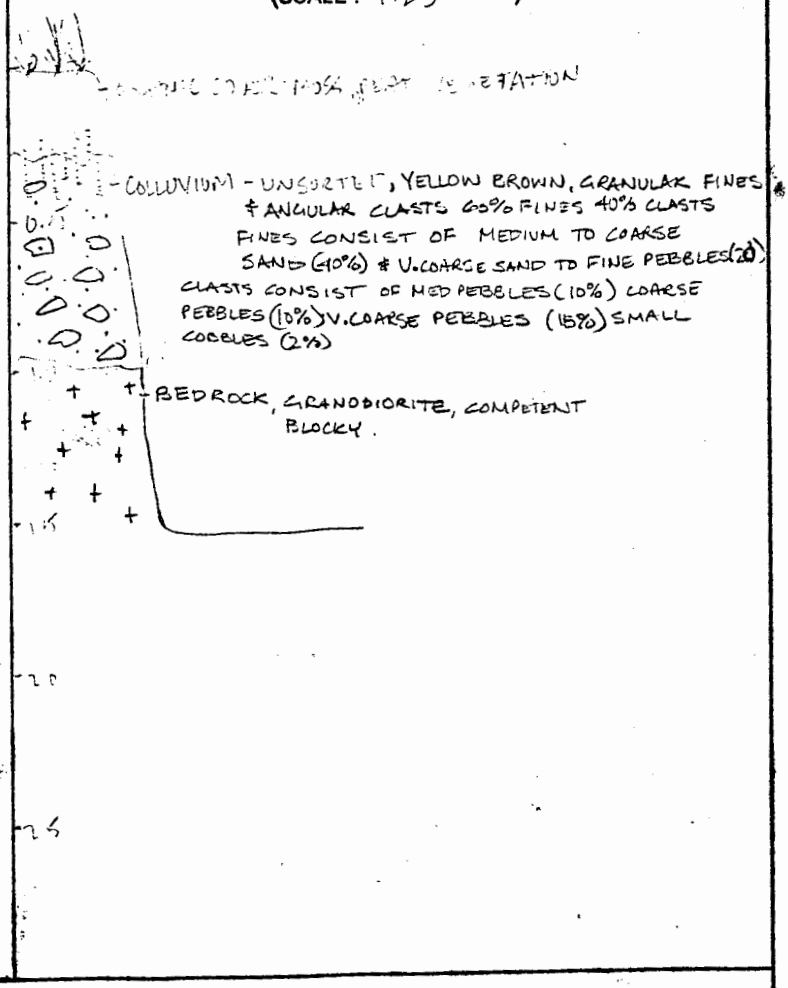
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
EXCAVATOR	27.50	1.17	32.18
TECHNICIAN	27.50	1.17	32.18
ROAD CONST	19.00	1.17	22.10
TRENCHING	$2.00/cu yd		51.00
BACKFILLING	$2.00/cu yd		51.00
TOTAL EXPENDITURES			188.46

PLAN VIEW
(SCALE :)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CREEK NAME: CASINO
TYPE: CREEK

IDENTIFICATION NUMBER: TP94-89

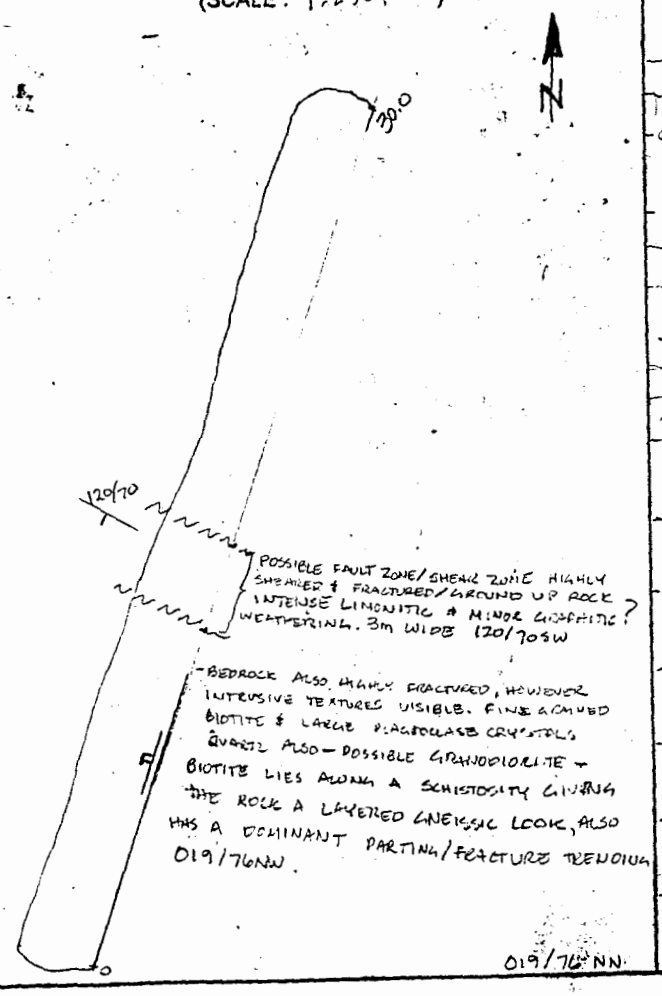
SURVEY COORDINATES
NORTHING ____ m
EASTING ____ m
ELEVATION 785 m
AZIMUTH 018° deg.
INCLINATION 12° @ 125° deg.

DIMENSIONS
AVERAGE DEPTH 3.8 m
AVERAGE WIDTH 2.5 m
LENGTH 30.0 m
VOLUME 285 Cu.m
372.76 Cu.yd

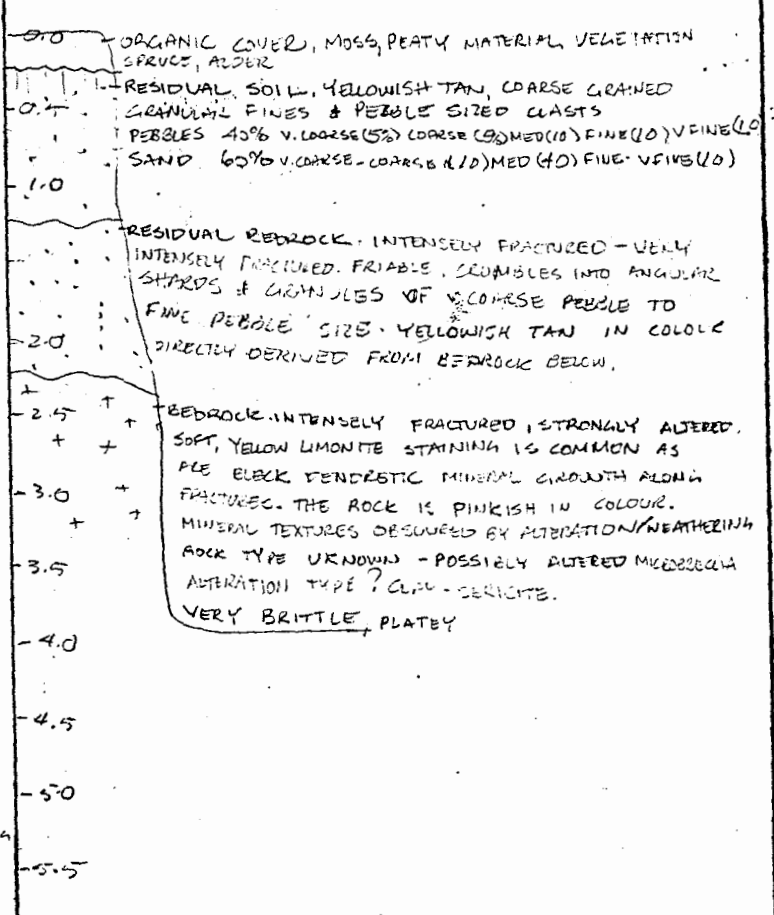
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	3.0	82.50
GEOTECH	27.50	3.0	82.50
BOBCAT	130.00	0.25	32.50
TRENCHING	2.00 Cu yd		745.52
BACKFILLING	2.00 Cu yd		745.52
TOTAL EXPENDITURES			1688.54

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:50)



SAMPLE NUMBERS:

SOIL ____
PLACER GRAVEL ____
ROCK ____

COMMENTS / DESCRIPTIONS: RESIDUAL TOP SOIL - 20-30cm THICK LAYER OF WELL SORTED SANDY FINES JUST BELOW MOSS, VARYING BROWN COLOUR, DRY 75% MED-FINE SAND 10% COARSE SAND TO FINE PEBBLES 5% COARSE PEBBLES 1% VERY COARSE PEBBLES 10% V. FINE SAND TO COARSE SILT.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 24
CREEK NAME: CASINO
TYPE: CREEK

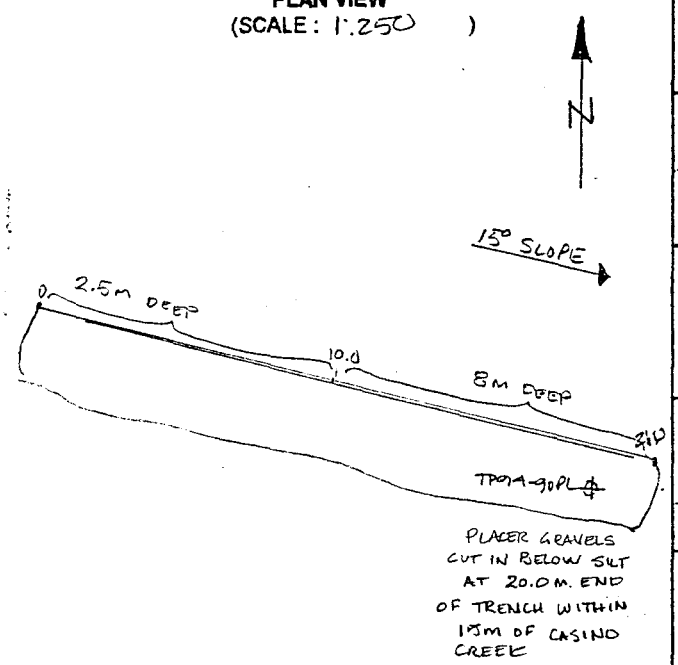
PIT IDENTIFICATION NUMBER: TP94-90

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	*	m
EASTING	m	AVERAGE WIDTH	2.5	m
ELEVATION	785 m	LENGTH	21.0	m
AZIMUTH	105° deg.	VOLUME	282.5	Cu.m
INCLINATION	15°→ deg.		369.5	Cu.yd

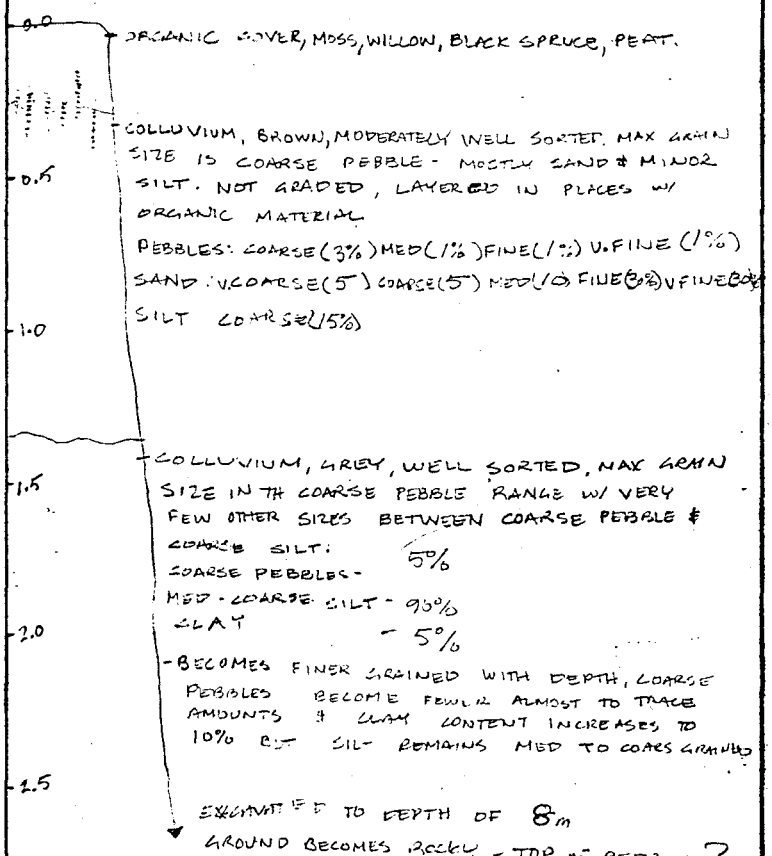
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	3.0	82.50
GEOTECH	27.50	3.0	82.50
ROAD CONST.	130.00	0.25	32.50
TRENCHING	$2.00 Cu yd		739.00
BACKFILLING	$2.00 Cu yd		739.00
TOTAL EXPENDITURES			1675.00

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP94-90PL AT END OF TRENCH (20.0m)
ROCK

COMMENTS / DESCRIPTIONS: TRENCH DEPTHS: 0-10m 2.5m DEEP x 2.5 WIDE = 62.5 m³
10-21m 8.0m DEEP x 2.5 WIDE = 220 m³
TOTAL = 282.5 m³

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE
CREEK NAME: CASINO
TYPE: CREEK

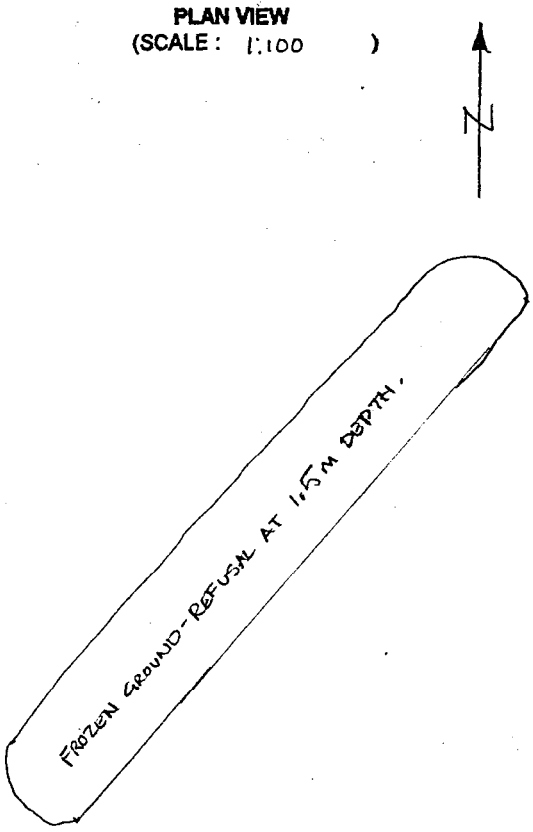
PIT IDENTIFICATION NUMBER: TP94-92

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	1.5	m
EASTING	m	AVERAGE WIDTH	1.5	m
ELEVATION	860 m	LENGTH	4.0	m
AZIMUTH	040° deg.	VOLUME	9.0	Cu.m
INCLINATION	15° deg.		11.8	Cu.yd

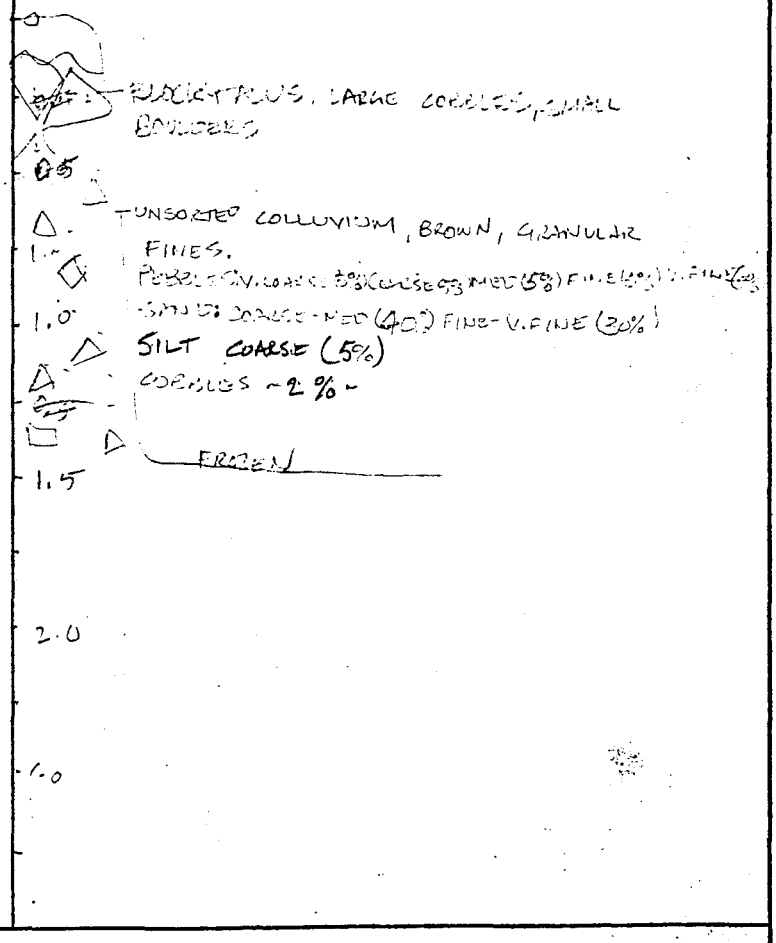
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	0.5	13.75
GEOTECH	27.50	0.5	13.75
ROADCONST	130.00/HR	0.5	65.00
TRENCHING	1.50 Cu yd		17.70
BACKFILLING	1.50 Cu yd		17.70
TOTAL EXPENDITURES			127.90

PLAN VIEW
(SCALE : 1:100)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: [illegible]
CREEK NAME: CASINO
TYPE: CREEK

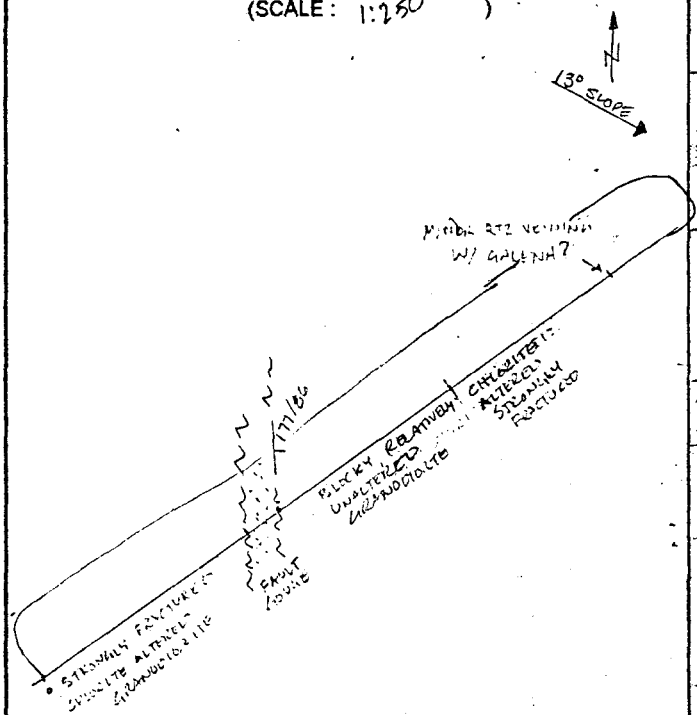
PIT IDENTIFICATION NUMBER: TP94-03

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	3.0	m
EASTING	m	AVERAGE WIDTH	2.5	m
ELEVATION	860 m	LENGTH	26.0	m
AZIMUTH	055° deg.	VOLUME	195.0	Cu.m
INCLINATION	13° → 12° deg.		255.0	Cu.yd

EXPENDITURES

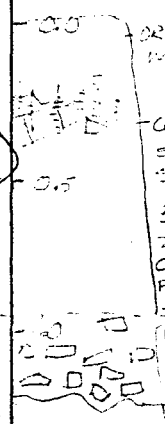
TYPE	RATE/HOUR	HOURS	COST
EXCAVATOR	27.50	2.5	68.75
GEOTECH	27.50	2.5	68.75
CAMP COST	130.00	0.25	32.50
TRENCHING	2.00 /cu yd		510.00
BACKFILLING	2.00 /cu yd		510.00
TOTAL EXPENDITURES			1190.00

PLAN VIEW
(SCALE : 1:250)



1.2m WIDE FAULT ZONE 8.3m TO 9.5m FAULT GOUGE & ROCK FLOUR, CRUMBLES BY HAND. TOTALLY NON COHESIVE - 147°/85° NE

TRENCH PROFILE
(SCALE :)



- 0.0 ORGANIC COVER, MOSS, BIRCH, SPRUCE
- COLLUVIUM, BROWN, MOIST, GRANULAR FINES & SCATTERED LARGE BLOCKS OF HARD INTACT SURFACE; MODERATELY TO POORLY SORTED
  30% MATERIAL >V.COARSE SAND
  20% MATERIAL < V.FINE PEBBLES
  COBBLES 2%
  PEBBLES V.COARSE 5% COARSE 5% MEDIUM 10% FINE 10% V.FINE 10%
  SAND: V.COARSE 10% COARSE 20% MEDIUM 20% FINE 10%
  MORE LOOSE BLOCKS (V.LOWER PEBBLE TO SMALL COBBLE SIZE) AS BEDROCK APPROACHES
- BEDROCK. COARSE GRAINED GRANITIC INTRUSIVE. FRACTURED THOROUGHLY WITH A BLOCKY PARTING OF SMALL COBBLES TO V.COARSE PEBBLE SIZE CHUNKS. ISOLATED AREAS OF MORE INTENSE FRACTURING. ALTERATION & WEATHERING ARE MODERATE W/ MAFIC MINERALS GOING TO CHLORITE AND A BLACK RESIDUE COATING FRACTURE SURFACES. THE ROCK IS FAIRLY COMPETENT. BREAKS APART READILY ALONG FRACTURES BUT FRAGMENTS ARE COHESIVE & HARD.
  - CHLORITE ALTERED GRANODIORITE.
  EAST OF FAULT (FROM 8.3 TO 9.5m) GRANODIORITE IS LESS ALTERED & WEATHERED, MORE BLOCKY LESS FRACTURED.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CAS 32
CREEK NAME: CASINO
TYPE: CREEK

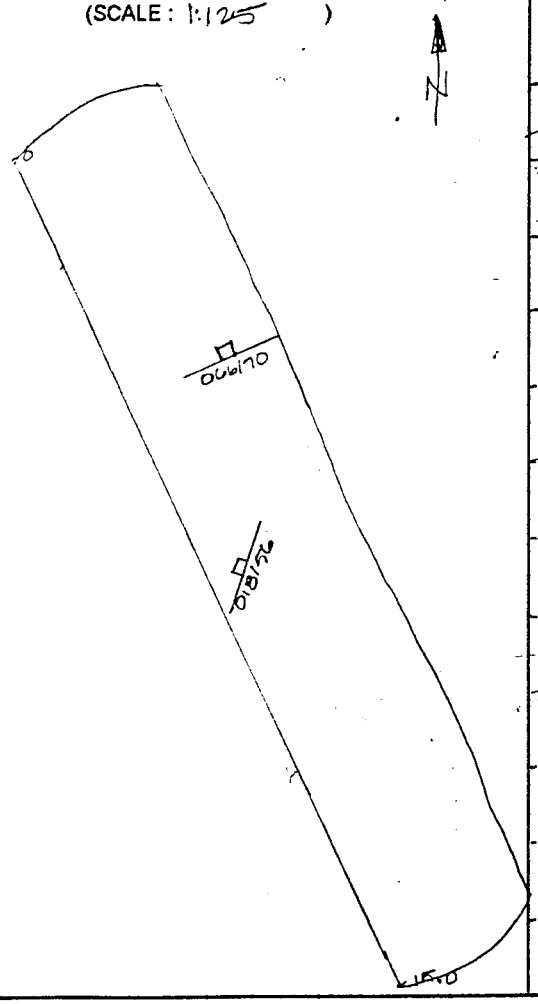
PIT IDENTIFICATION NUMBER: TP04-94

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	4.0	m
EASTING	m	AVERAGE WIDTH	2.7	m
ELEVATION	840 m	LENGTH	15.0	m
AZIMUTH	155° deg.	VOLUME	162.0	Cu.m
INCLINATION	deg.		211.9	Cu.yd

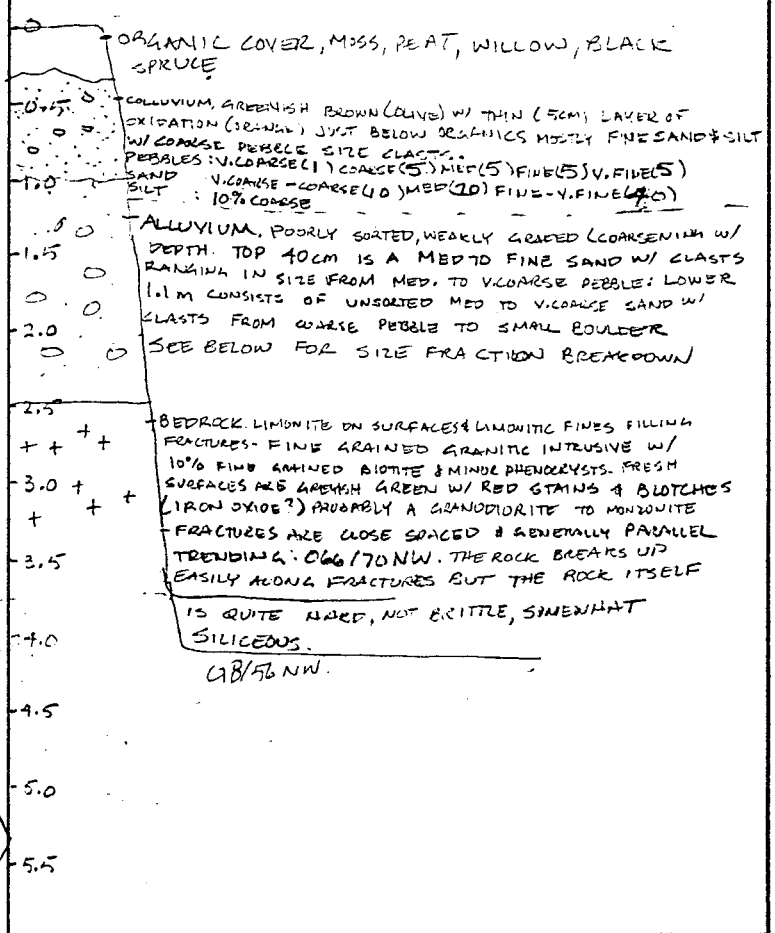
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.5	68.75
GEOTECH	27.50	2.5	68.75
ROAD CONST	130.00	—	—
TRENCHING	2.00 Cu yd		423.80
BACKFILLING	2.00 Cu yd		423.80
TOTAL EXPENDITURES			985.10

PLAN VIEW
(SCALE : 1:125)



TRENCH PROFILE
(SCALE : 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

ALLUVIUM: (0 - 0.4m) PEBBLES: V.COARSE(2) COARSE(5) MED(5) FINE(5) V.FINE(5)
SAND: V.COARSE(20) COARSE(15) MED(30) FINE(20) V.FINE(10)

ALLUVIUM (0.4-1.5m) BOULDERS: SMALL (TRACE)
COBBLES: SMALL (2%) LARGE (1%)
PEBBLES: V.COARSE(10%) COARSE(10%) MED(10%) FINE(10%) V.FINE(5%)
SAND: V.COARSE(20) COARSE(15) MED(10%) FINE(5%) V.FINE(5%)

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 32
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-95

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	830	m
AZIMUTH	098°-029°	deg.
INCLINATION	25°-7°	deg.

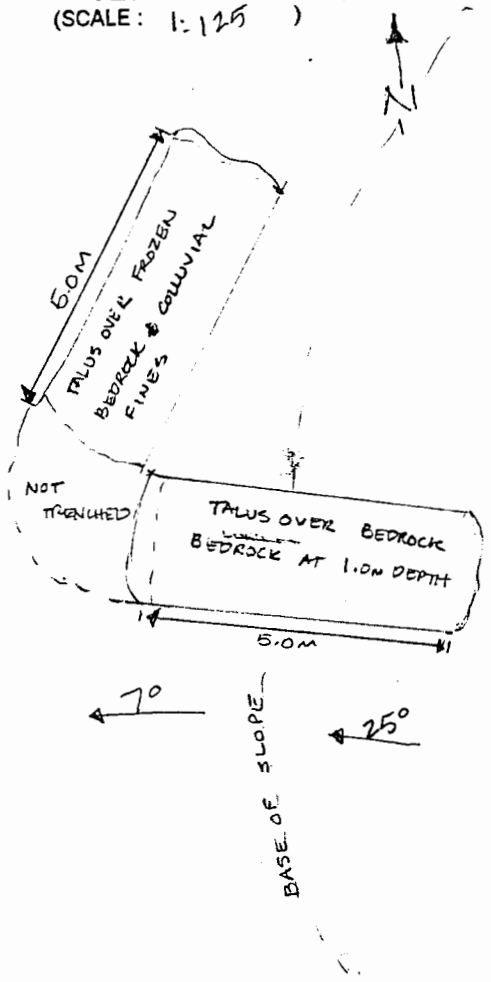
DIMENSIONS

AVERAGE DEPTH	1.5	m
AVERAGE WIDTH	2.0	m
LENGTH	10.0	m
VOLUME	30.0	Cu.m
	39.2	Cu.yd

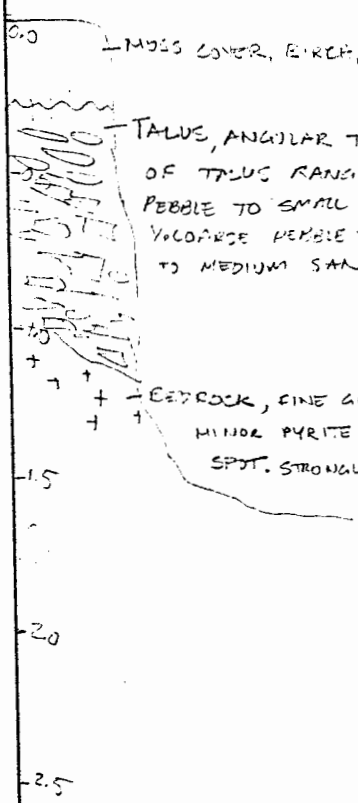
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
	27.50	1.0	27.50
	27.50	1.0	27.50
	130.00	0.17	22.10
	2.00 Cu yd		78.4
	2.00 Cu yd		78.4
TOTAL EXPENDITURES			233.90

PLAN VIEW
(SCALE : 1:125)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS: TRENCH DUG AT BASE OF SLOPE ON EAST SIDE OF CASINO CREEK VALLEY. SLOPE DECREASING FROM 25° TO 7° TOWARDS CREEK.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 32
CREEK NAME: CASINO
TYPE: CREEK

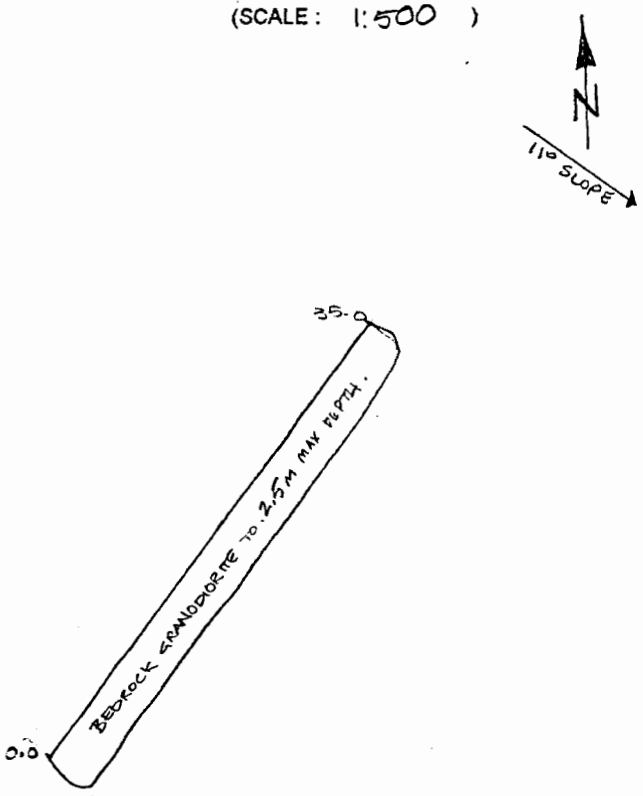
PIT IDENTIFICATION NUMBER: TP94-96

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	2.0	m
EASTING		m	AVERAGE WIDTH	2.3	m
ELEVATION	855	m	LENGTH	35.0	m
AZIMUTH	036°	deg.	VOLUME	161.0	Cu.m
INCLINATION	11° → 126°	deg.		210.6	Cu.yd

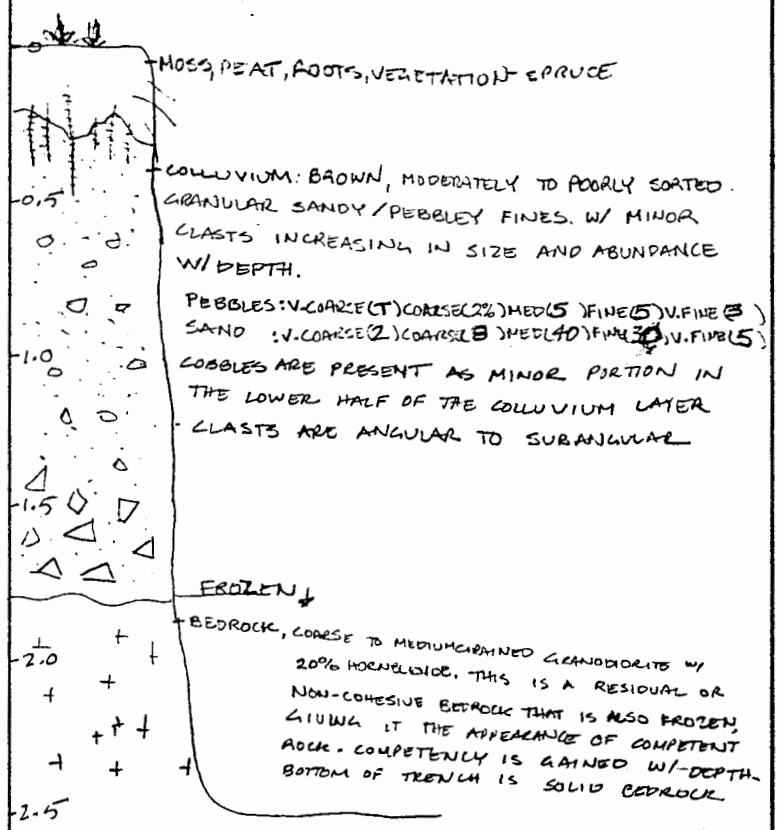
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.25	61.88
GEOTECH	27.50	2.25	61.88
ROAD CONST	130.00	0.5	65.00
TRENCHING	$2.00 Cuyd		421.20
BACKFILLING	$2.00 Cuyd		421.20
TOTAL EXPENDITURES			1031.16

PLAN VIEW
(SCALE: 1:500)



TRENCH PROFILE
(SCALE: 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 33
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-97

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	1230	m
AZIMUTH	126°	deg.
INCLINATION	5°	deg.

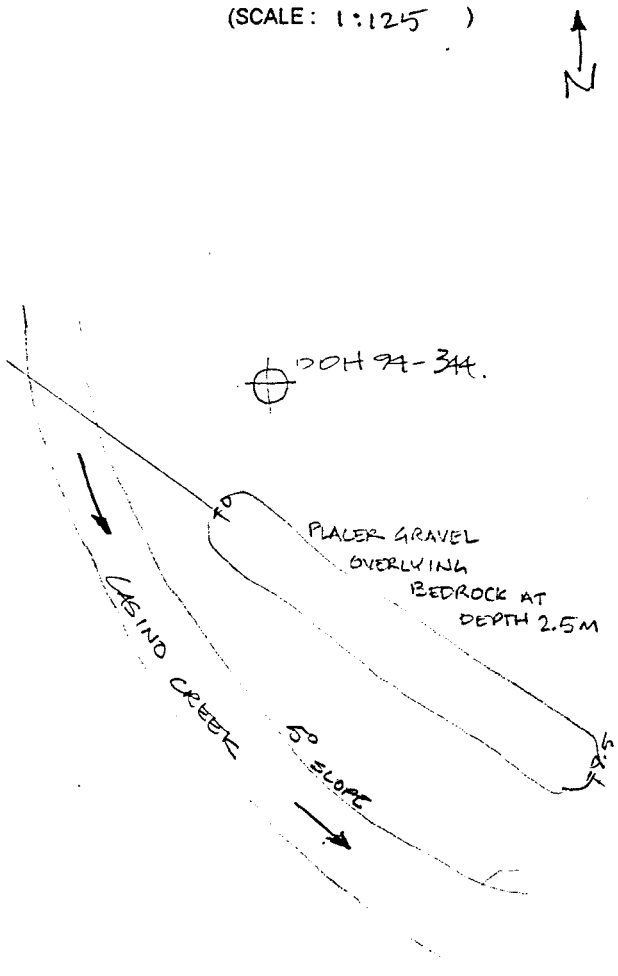
DIMENSIONS

AVERAGE DEPTH	3.0	m
AVERAGE WIDTH	2.5	m
LENGTH	7.5	m
VOLUME	56.3	Cu.m
	73.6	Cu.yd

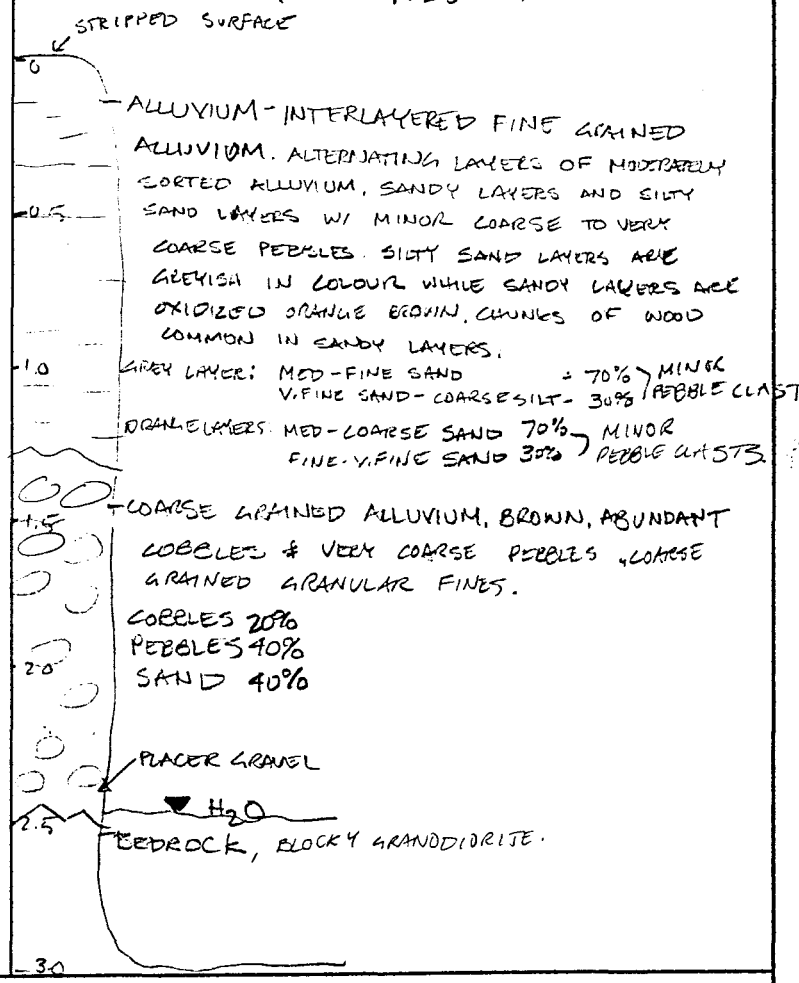
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGIST	27.50	1.17	32.18
GEOTECH	27.50	1.17	32.18
ROAD CONST	130.00	0.17	22.10
TRENCHING	$2.00 Cu/yd		147.20
BACKFILLING	$2.00 Cu/yd		147.20
TOTAL EXPENDITURES			380.86

PLAN VIEW
(SCALE : 1:125)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL	
PLACER GRAVEL	TP94-97PL
ROCK	

COMMENTS / DESCRIPTIONS:

PLACER TEST PI. DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 33
CREEK NAME: CASINO
TYPE: CREEK

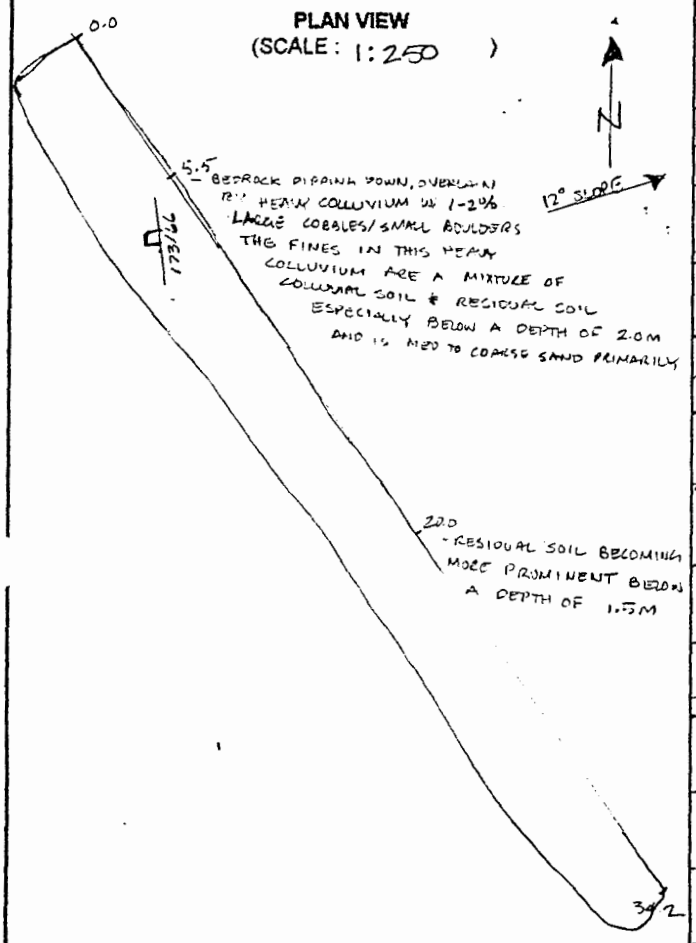
PIT IDENTIFICATION NUMBER: TP94-78

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	3.1	m
EASTING		m	AVERAGE WIDTH	2.7	m
ELEVATION	855	m	LENGTH	34.2	m
AZIMUTH	146°	deg.	VOLUME	286.3	Cu.m
INCLINATION	12°→073°	deg.		374.4	Cu.yd

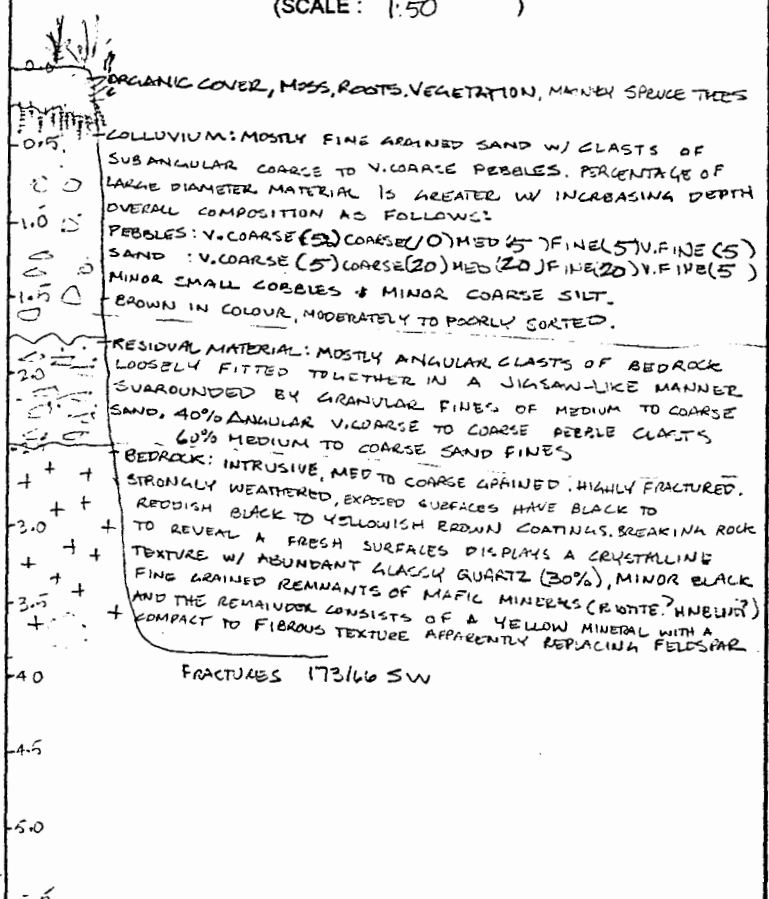
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST	130.00	0.33	42.90
TRENCHING	$2.00 Cu yd		748.8
BACKFILLING	$2.00 Cu yd		748.8
TOTAL EXPENDITURES			1650.5

PLAN VIEW
(SCALE : 1:250)



TRENCH PROFILE
(SCALE : 1:50)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST P. DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 34
CREEK NAME: CASINO
TYPE: CREEK

T IDENTIFICATION NUMBER: TP94-99

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	885	m
AZIMUTH	162° (342)	deg.
INCLINATION	13° →	deg.

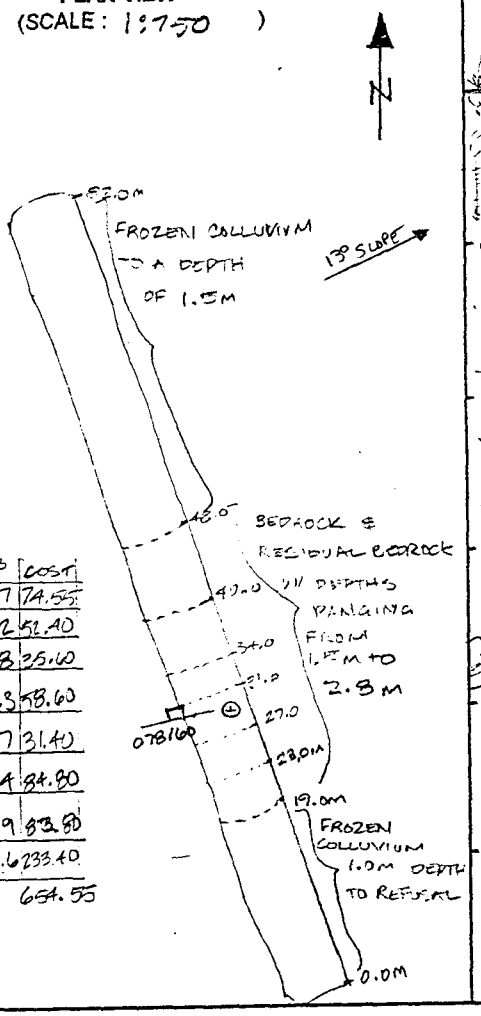
DIMENSIONS

AVERAGE DEPTH	*	m
AVERAGE WIDTH	2.0	m
LENGTH	82.0	m
VOLUME	258.8	Cu.m
	338.5	Cu.yd

EXPENDITURES

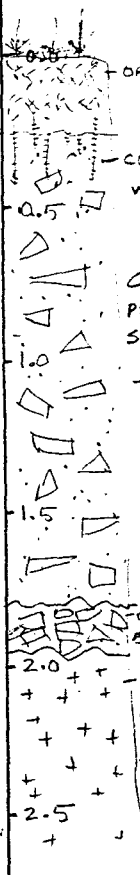
TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST	130.00	0.25	32.50
TRENCHING	1.50-2.00 Cu/yd		654.55
BACKFILLING	1.50-2.00 Cu/yd		654.55
TOTAL EXPENDITURES			1451.60

PLAN VIEW
(SCALE: 1:750)



FROM	TO	DEPTH	m^3	yd^3	COST
0	19	1.0	38.0	49.7	74.55
19	23	2.5	20.0	26.2	52.40
23	27	1.7	13.6	17.8	35.60
27	31	2.8	22.4	29.3	58.60
31	34	2.0	12.0	15.7	31.40
34	40	2.0	32.4	42.4	84.80
40	48	2.0	32.0	41.9	83.80
48	82	11.5	53.4	115.6	233.40
					654.55

TRENCH PROFILE
(SCALE: 1:25)



- ORGANIC COVER, MOSS PEAT, VEGETATION
- COLLUVIUM, BROWN, COARSE GRAINED GRANULAR FINES W/ ABUNDANT ANGULAR CLASTS OF MATERIAL SIMILAR TO BEDROCK. SIZE FRACTIONS AS FOLLOWS:
  COBBLES: SMALL (3%)
  PEBBLES: V.COARSE(20) COARSE(7) MED(5) FINE(5) V.FINE(5)
  SAND: V.COARSE(5) COARSE(30) MED(20) FINE(7) V.FINE(7)
- UNSORTED, NOT GRADED
- ORANGE BROWN, COARSE GRAINED, UNSORTED, RESIDUAL SOIL 50% FRAGMENTS OF BEDROCK, 50% COARSE-MED SAND.
- BEDROCK, HIGHLY FRACTURED, WEATHERED, FINE TO MEDIUM GRAINED INTRUSIVE. SURFACES COVERED W/ A BLACK COATING, FRESHER SURFACES SHOW A CRYSTALLINE TEXTURE W/ QUARTZ SURROUNDED BY A ORANGE, YELLOW WEATHERED MINERAL, POSSIBLY A WEATHERED FELDSPAR? - MONZONITIC ROCK? 5-10% FINE-MEDIUM GRAINED BIOTITE, MINOR PHENOS.

078/60 NW.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK: TP94-99 BEDROCK

COMMENTS / DESCRIPTIONS: 0-19.0m DEPTH 1.0m FROZEN COLLUVIUM, 19.0-23.0 DEPTH 2.5m (BEDROCK) 23.0m TO 27.0m TRENCH DEPTH 1.5-2.0m 27.0m TO 31.0m TRENCH DEPTH 2.8m (TO BEDROCK) 31.0m TO 34.0m DEPTH 2m (TO FROZEN RESIDUAL SOIL) 34.0 TO 40.0m DEPTH 3.0 TO 2.5m (TO BEDROCK) 40.0m TO 48.0m DEPTH DECREASING FROM 2.5m TO 1.5m (TO CONTACT BETWEEN COLLUVIUM & RESIDUAL BEDROCK, COLLUVIUM IS RICH IN LARGE ANGULAR CLASTS OF BEDROCK MATERIAL). 48.0 TO 82.0 - DEPTH 1.5-1.0m IN FROZEN BLOCKY COLLUVIUM.)

PLACER TEST P.. DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 33
CREEK NAME: CASINO
TYPE: CREEK.

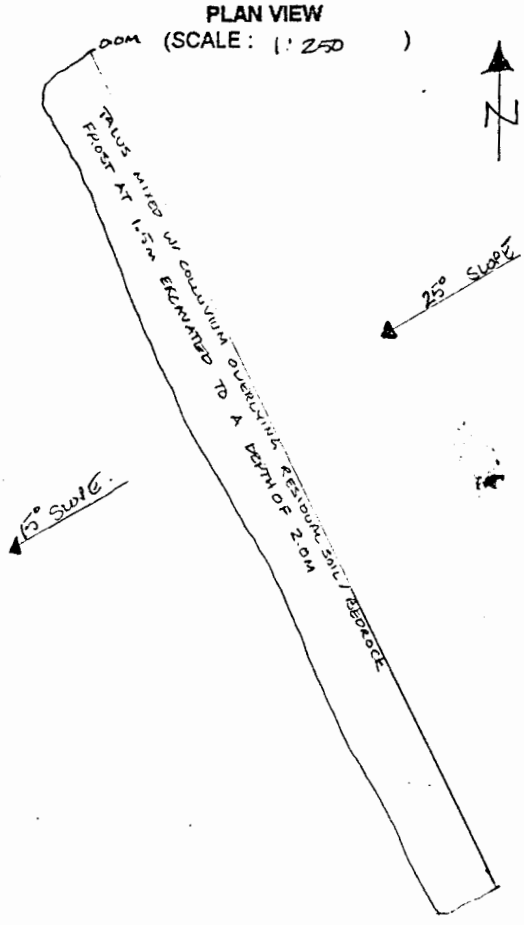
PIT IDENTIFICATION NUMBER: TP94-100

SURVEY COORDINATES			DIMENSIONS		
NORTHING		m	AVERAGE DEPTH	2.0	m
EASTING		m	AVERAGE WIDTH	2.3	m
ELEVATION	845	m	LENGTH	30.5	m
AZIMUTH	155°	deg.	VOLUME	140.3	Cu.m
INCLINATION	25°-15°-290	deg.		183.5	Cu.yd

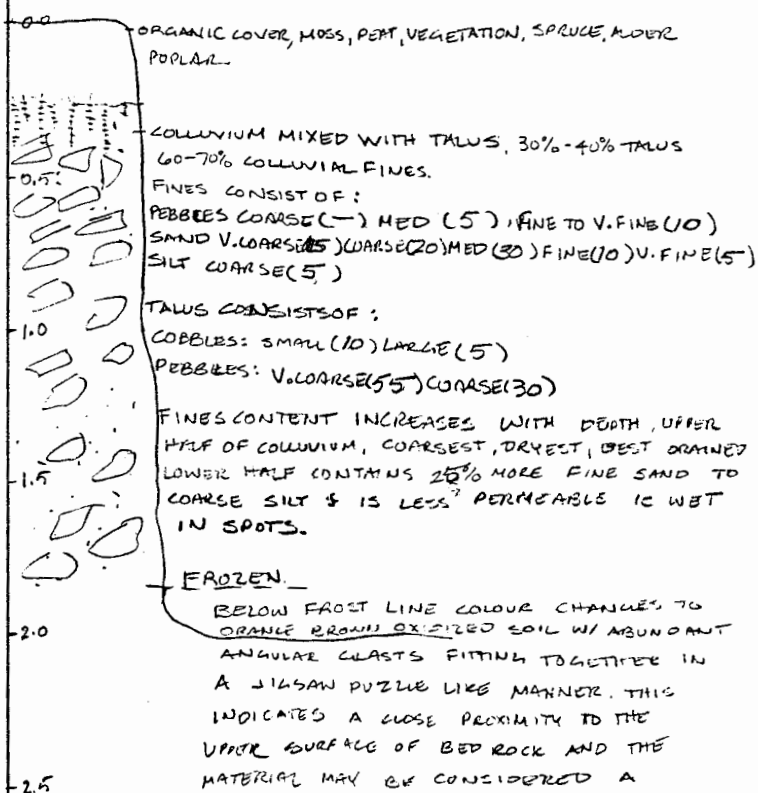
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.17	32.18
GEOTECH	27.50	1.17	32.18
ROAD CONST	130.00	0.17	22.10
TRENCHING	$1.50 Cu/yd		275.25
BACKFILLING	$1.50 Cu/yd		275.25
TOTAL EXPENDITURES			636.96

PLAN VIEW
(SCALE : 1:250)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST P. DESCRIPTION
CASINO PROPERTY

CLAIM NAME:
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP94-101

SURVEY COORDINATES

NORTHING		m
EASTING		m
ELEVATION	840	m
AZIMUTH	019°	deg.
INCLINATION	4° ↓	deg.

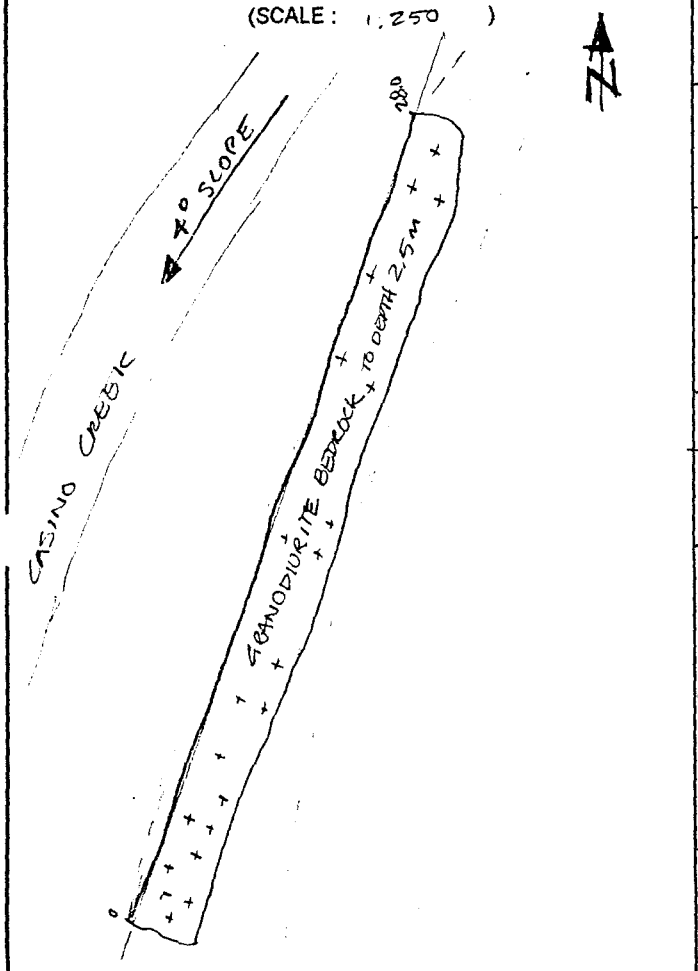
DIMENSIONS

AVERAGE DEPTH	2.5	m
AVERAGE WIDTH	2.0	m
LENGTH	28.0	m
VOLUME	140.0	Cu.m
	183.1	Cu.yd

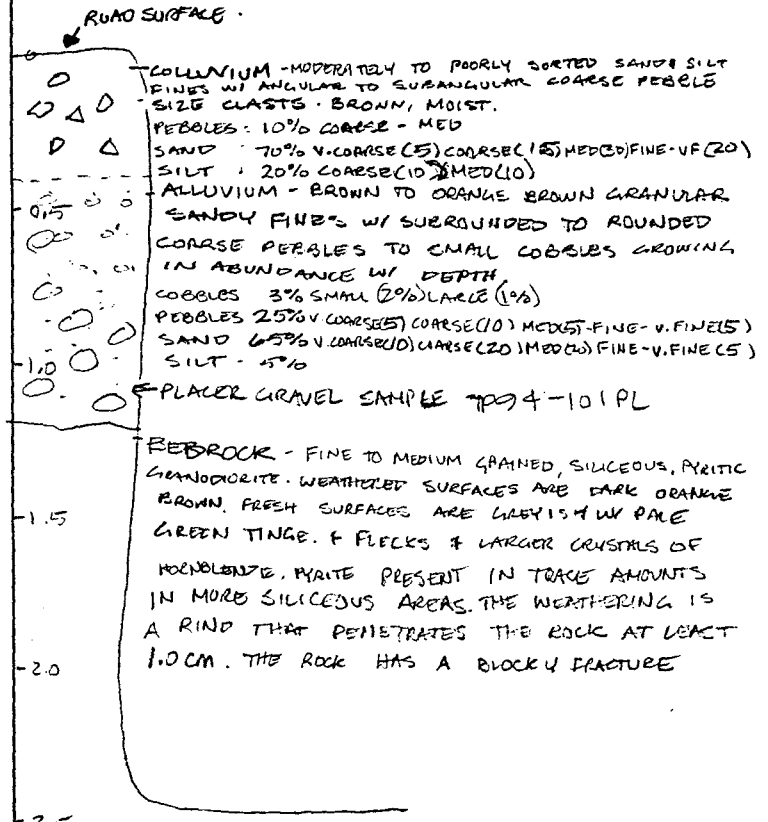
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	1.25	34.38
GEOTECH	27.50	1.25	34.38
ROAD CONST	130.00	—	—
TRENCHING	$2.00 Cu/yd		366.20
BACKFILLING	$2.00 Cu/yd		366.20
TOTAL EXPENDITURES			801.16

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:25)



COLLUVIUM - MODERATELY TO POORLY SORTED SAND & SILT FINES W/ ANGULAR TO SUBANGULAR COARSE PEBBLE SIZE CLASTS. BROWN, MOIST.
PEBBLES: 10% COARSE - MED
SAND: 70% V.COARSE (5) COARSE (15) MED (30) FINE-VF (20)
SILT: 20% COARSE (10) MED (10)

ALLUVIUM - BROWN TO ORANGE BROWN GRANULAR SANDY FINES W/ SURROUNDED TO ROUNDED COARSE PEBBLES TO SMALL COBBLES GROWING IN ABUNDANCE W/ DEPTH.
COBBLES 3% SMALL (2%) LARGE (1%)
PEBBLES 25% V COARSE (5) COARSE (10) MED (5) FINE - V. FINE (5)
SAND 65% V. COARSE (10) COARSE (20) MED (30) FINE - V. FINE (5)
SILT - 5%

← PLACER GRAVEL SAMPLE TP94-101 PL

BEDROCK - FINE TO MEDIUM GRAINED, SILICEOUS, PYRITIC GRANODIORITE. WEATHERED SURFACES ARE DARK ORANGE BROWN. FRESH SURFACES ARE GREY ISH W PALE GREEN TINGE. + FLECKS + LARGER CRYSTALS OF HORNBLENDE. PYRITE PRESENT IN TRACE AMOUNTS IN MORE SILICEOUS AREAS. THE WEATHERING IS A RIND THAT PENETRATES THE ROCK AT LEAST 1.0 CM. THE ROCK HAS A BLOCKY FRACTURE

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP94101PL SAMPLE DEPTH 1.2M
ROCK

COMMENTS / DESCRIPTIONS: THIS TRENCH WAS DUG ON THE ROAD NEXT TO CASINO CREEK.

PLACER TEST PI. DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 38
CREEK NAME: CASINO
TYPE: CREEK

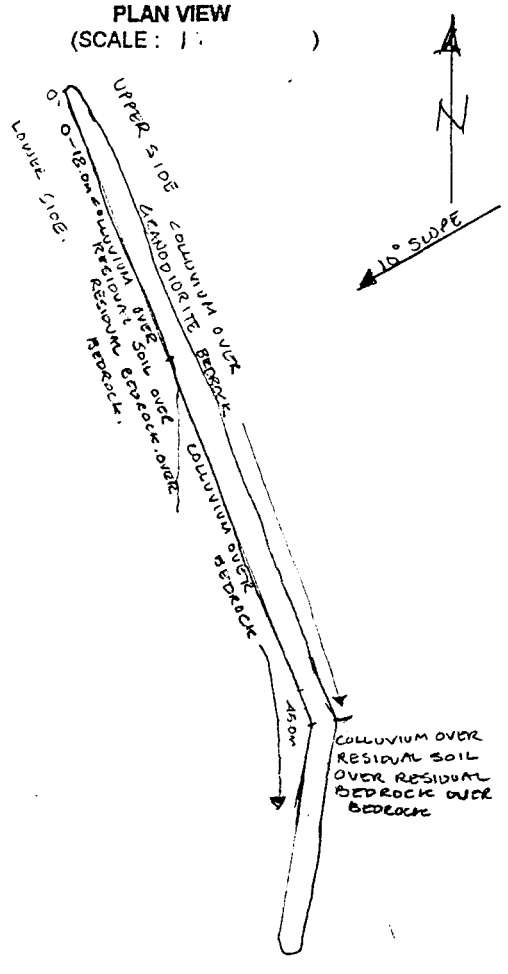
PIT IDENTIFICATION NUMBER: TP94-102

SURVEY COORDINATES		DIMENSIONS		
NORTHING	m	AVERAGE DEPTH	2.0	m
EASTING	m	AVERAGE WIDTH	2.0	m
ELEVATION	930 m	LENGTH	60.0	m
AZIMUTH	159° to 187° deg.	VOLUME	240.0	Cu.m
INCLINATION	10° → 240° deg.		313.9	Cu.yd

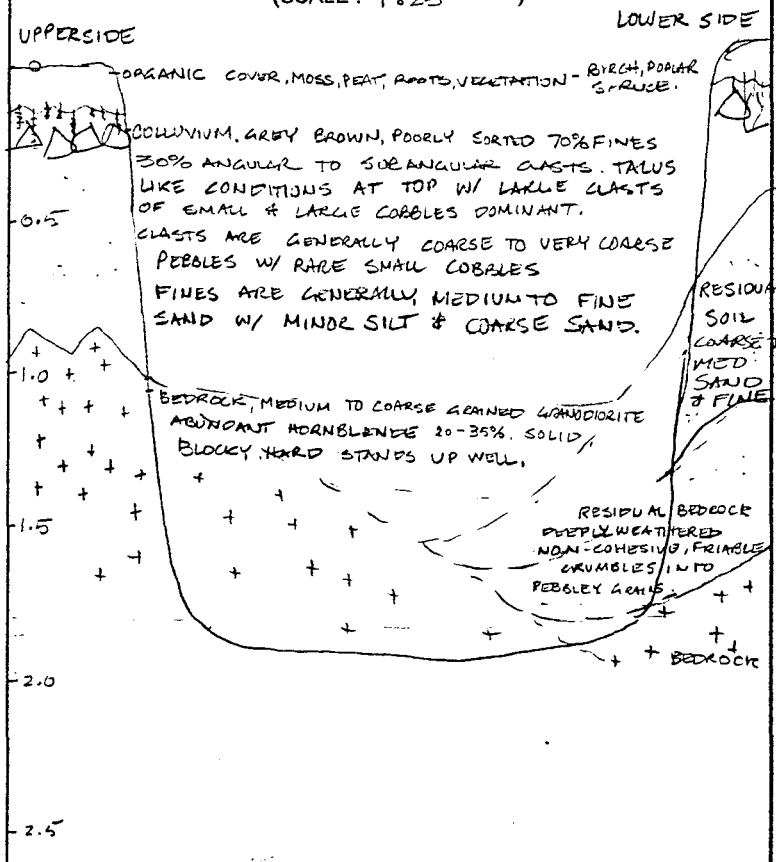
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
GEOLOGY	27.50	2.0	55.00
GEOTECH	27.50	2.0	55.00
ROAD CONST	130.00	0.5	65.00
TRENCHING	$2.00 Cu/d		627.80
BACKFILLING	$2.00 Cu/d.		627.80
TOTAL EXPENDITURES			1430.60

PLAN VIEW
(SCALE : 1 :)



TRENCH PROFILE
(SCALE : 1:25)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS: IT APPEARS THAT THE BEDROCK FALLS OFF SHARPLY FROM ONE SIDE OF THE TRENCH TO THE OTHER. COMPETENT BEDROCK DOMINATES THE UPPER SIDE OF THE TRENCH BUT THE LOWER SIDE CONSISTS OF COLLUVIUM OVER COARSE TO MED GRAINED SAND RESIDUAL SOIL OVER FRIABLE, DEEPLY WEATHERED RESIDUAL BEDROCK. THIS PROFILE MAY REPRESENT A SECTION OF BEDROCK THAT WEATHERED DEEPLY AT THE SURFACE AND SUBSEQUENTLY COLLAPSED DOWNSLOPE FALLING AWAY FROM COMPETENT BEDROCK.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 38
CREEK NAME: Casino
TYPE: Creek

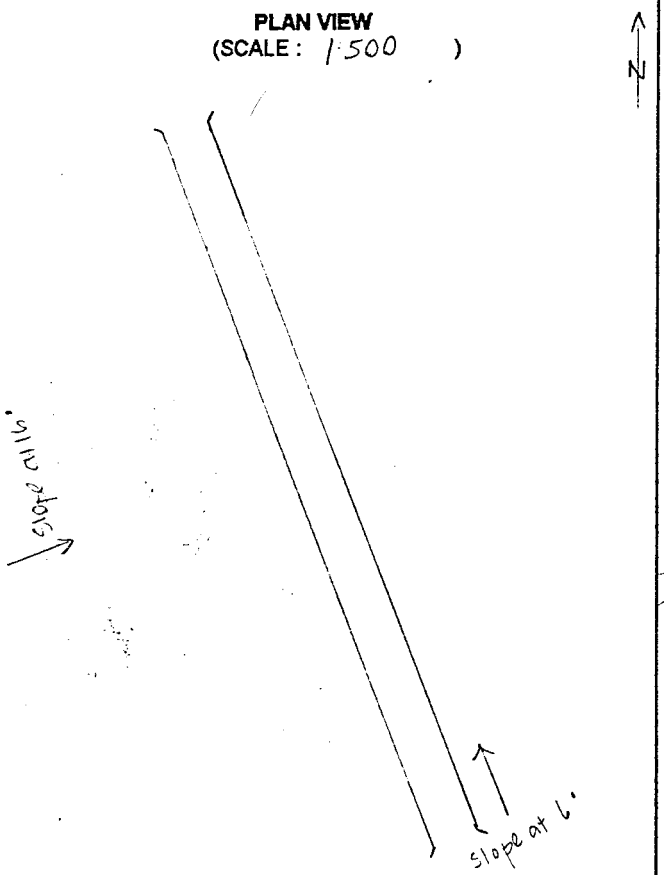
PIT IDENTIFICATION NUMBER: TP-94-103

SURVEY COORDINATES			DIMENSIONS		
NORTHING	253150	m	AVERAGE DEPTH	3.8	m
EASTING	113630	m	AVERAGE WIDTH	3.0	m
ELEVATION	920	m	LENGTH	50	m
AZIMUTH	164	deg.	VOLUME	570	Cu.m
INCLINATION	6	deg.		745.5	Cu.yd

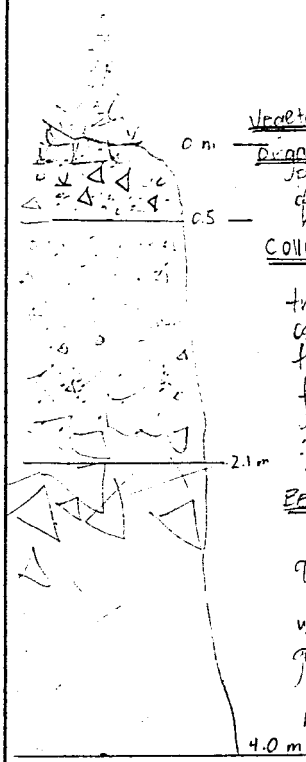
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Building Road	130/hr	0.5	65.00
Geotech	27.50	3.25	89.38
Geotech	27.50	3.25	89.38
TOTAL EXPENDITURES			243.76

PLAN VIEW
(SCALE: 1:500)



TRENCH PROFILE
(SCALE: 1:50)



Vegetation: Tall Blackspruce, willows, heavy moss, some arctic
Organics: (Co%) Peat, roots, with some cobbles & boulders of WRGD. Fines composed of: 30% organics, 50% silt & clay, 20% sand
Colluvium: Limonite stain strong
Angular pebbles and cobbles with trace boulders. Poorly mixed, non-D composition. Clast supported varying from 40-60%. Matrix composed of fine to coarse sand with fine pebbles and minor silt. Pockets of residual (?) bedrock w/ intense limonite stain & some sand.
Bedrock: Granodiorite
Approx 15% mafics (hbl, biot.), 10-15% quartz, 70% feldspar.
Along fractures strong limonite stain with plags altered to clay + limonite giving a "porphyritic" appearance. Plags with good cleavages in rock not proximal to frcs.
Fairly steeply dipping frc. set at 52° dip, 045° strike. Slickensides on frc approx parallel to this frc.
Top of bedrock is mod-strongly frc'd but quickly becomes quite massive
Weathering along frcs causing residual bedrock goes further into bedrock in S. end of trench
Common slickensides in shears

SAMPLE NUMBERS:
SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS: slope ⊥ to trench at 11° → 254. Slope of ground level // to trench is 6° → 164

Possible clear fracture at 2.2 m with altered feldspars completely gone to clay & jarosite stained & limonite/ilmenite

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 39
CREEK NAME: Casino
TYPE: Creek

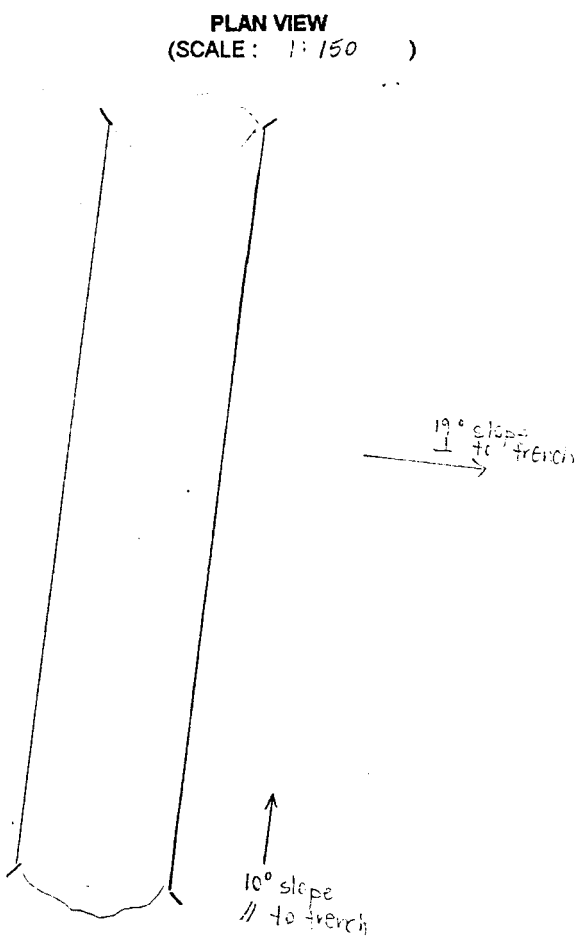
PIT IDENTIFICATION NUMBER: TP-94-104

SURVEY COORDINATES			DIMENSIONS		
NORTHING	253270	m	AVERAGE DEPTH	4.0	m
EASTING	113560	m	AVERAGE WIDTH	3.0	m
ELEVATION	930	m	LENGTH	15	m
AZIMUTH	006°	deg.	VOLUME	180	Cu.m
INCLINATION	5	deg.		235.44	Cu.yd

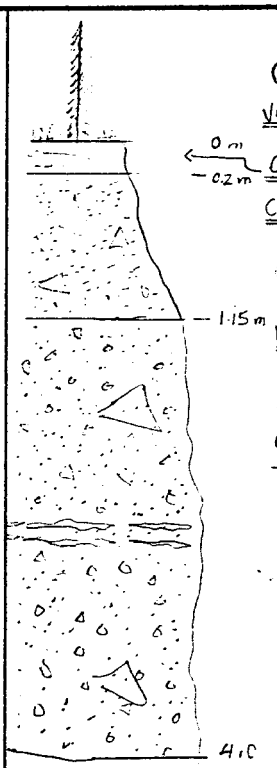
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Building road	130.00	0.25	32.50
Geology	27.50	1.5	41.25
Geotech	27.50	1.5	41.25
TOTAL EXPENDITURES			115.00

PLAN VIEW
(SCALE: 1:150)



TRENCH PROFILE
(SCALE: 1:50)



Vegetation: Tall black spruce, occasional Junipers, medium moss, lichens

Organics: moss, roots with 50% organic-rich silts

Colluvium: Matrix supported fine sands with trace silt. = 65%. Clasts of coarse sands and fine pebbles.

Residual Bedrock Soils

Disaggregated granodiorite (?) into feldspars → clay, quartz and biotites of coarse sand size. Some small to med pebbles of angular WRGD. 10-20% cobbles > boulders of WRGD.

Down section get less clay with feldspars. Occasional lenses of brown/dark gray of clay/silt w/ pyrite flakes. ~ 4mm // lenses dipping to WSW.

Ice lenses occur to S end of trench coming up to a metre with surface at end of trench. Ice more prevalent on East side of trench.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 39
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP-94-105

SURVEY COORDINATES

NORTHING	253190	m
EASTING	113480	m
ELEVATION	920	m
AZIMUTH	95°	deg.
INCLINATION	10°	deg.

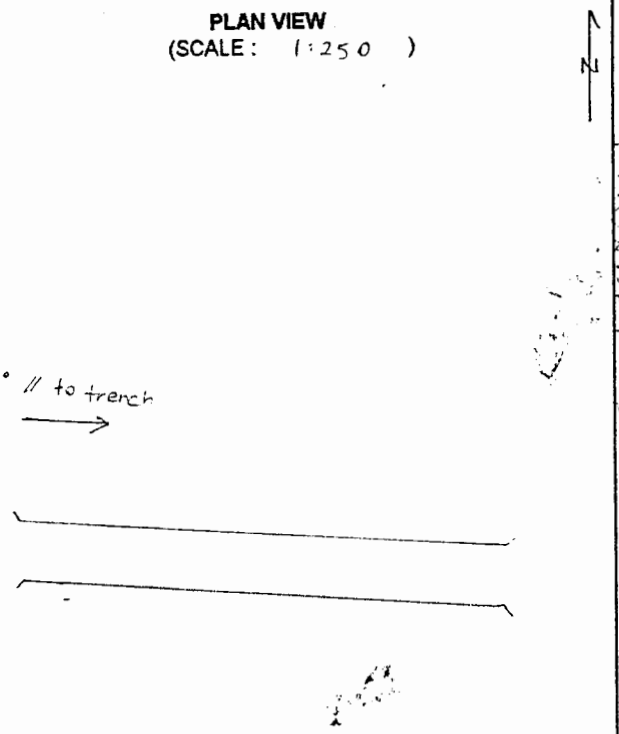
DIMENSIONS

AVERAGE DEPTH	2.5	m
AVERAGE WIDTH	1.9	m
LENGTH	16	m
VOLUME	76	Cu.m
	99.41	Cu.yd

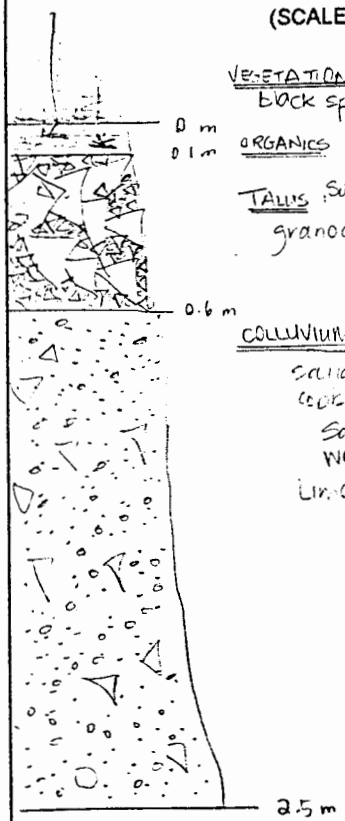
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Building road	130.00	0.2	26.00
geology	27.50	1.25	34.38
geotech	27.50	1.25	34.38
TOTAL EXPENDITURES			94.76

PLAN VIEW
(SCALE : 1:250)



TRENCH PROFILE
(SCALE : 1:25)



VEGETATION : Heavy moss, lichen, some willow, tall black spruce / poplar ?

ORGANICS : Roots, moss, decaying organic matter with some silty soil

TALUS : Sub angular cobbles and boulders of granodiorite with some v. coarse pebbles, medium pebbles

COLLUVIUM : matrix supported silts to coarse sands with some pebbles and trace cobbles of granodiorite
Saturated at depth in zones
Wet throughout
Limonite stained weakly

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 40
CREEK NAME: CASINO
TYPE: CREEK

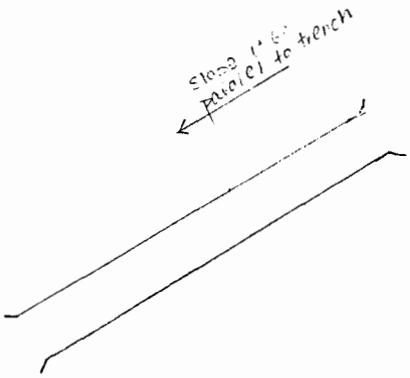
PIT IDENTIFICATION NUMBER: TP-94-166

SURVEY COORDINATES			DIMENSIONS		
NORTHING	253390	m	AVERAGE DEPTH	4.5	m
EASTING	113 485	m	AVERAGE WIDTH	3.3	m
ELEVATION	930	m	LENGTH	26	m
AZIMUTH	3°	deg.	VOLUME	386.1	Cu.m
INCLINATION	239	deg.		505.02	Cu.yd

EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Building Road	130.00	0.2	26.00
Geology	27.50	2	55.00
Geotech	27.50	2	55.00
TOTAL EXPENDITURES			136.00

PLAN VIEW
(SCALE: 1:500)



TRENCH PROFILE
(SCALE: 1:50)



VEGETATION: Thin to absent moss, lichens, grasses willows, black spruce nearby
← 5 cm of roots, crevices

ALLUVIUM: Layered beds of silt, sands from fine to coarse and fine pebbles. Trace to minor subrounded pebbles to small cobbles

RESIDUAL BEDROCK SOILS - South side of trench has no residual bedrock but is side of slope does.

BEDROCK: Moderately fractured limonite stained along frac granodiorite
Highly fract at top slightly less competent at depth

At toe of ∠ bedrock is v thick to cre. sand to fine bedrock

* Sample taken at W end of trench
TP-94-166PL - clay seams incl.

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL TP94166PL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 43
CREEK NAME: CASINO
TYPE: CREEK

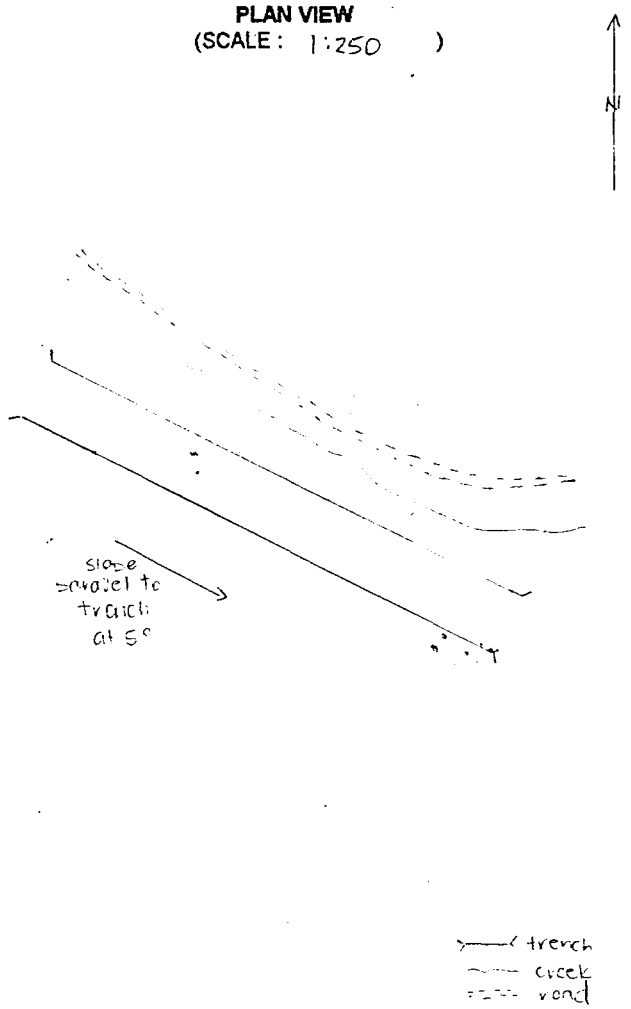
PIT IDENTIFICATION NUMBER: TP-94-107

SURVEY COORDINATES			DIMENSIONS		
NORTHING	253625	m	AVERAGE DEPTH	4	m
EASTING	113015	m	AVERAGE WIDTH	2	m
ELEVATION	915	m	LENGTH	17	m
AZIMUTH	119	deg.	VOLUME	136	Cu.m
INCLINATION	0	deg.		176.8	Cu.yd

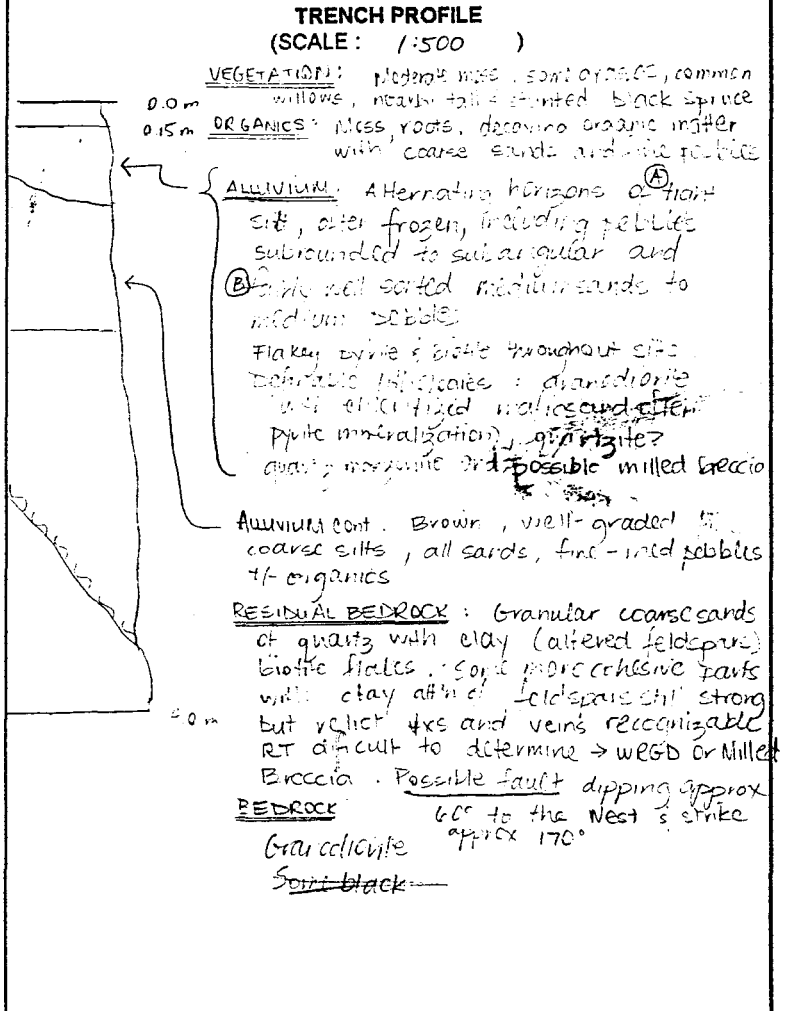
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Building Road	130.00	0.2	26.00
Geology	27.50	1.5	41.25
Geotech	27.50	1.5	41.25
TOTAL EXPENDITURES			108.50

PLAN VIEW
(SCALE: 1:250)



TRENCH PROFILE
(SCALE: 1:500)



VEGETATION: moderate moss, some grasses, common willows, nearby tall scattered black spruce

ORGANICS: moss, roots, decaying organic matter with coarse sands and fine gravels

ALLUVIUM: A Horizon: (A) Light silt, often frozen, including pebbles subrounded to subangular and (B) poorly sorted medium sands to medium pebbles

Flaky brittle & friable throughout site

Identifiable lithologies: diorite/gabbro, altered mafics and often pyrite mineralization, quartzite? quartz monzonite and possible milled breccia

ALLUVIUM cont.: Brown, well-graded fine coarse silts, all sands, fine-med pebbles +/- organics

RESIDUAL BEDROCK: Granular coarse sands of quartz with clay (altered feldspars) biotite flakes. Some more cohesive parts with clay altered feldspars still strong but relict fxs and veins recognizable RT difficult to determine → weGD or Milled Breccia. Possible fault dipping approx 60° to the West's strike approx 170°

BEDROCK: Granodiorite ~~Soft black~~

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL: TP-94-107PL
ROCK

COMMENTS / DESCRIPTIONS: Placer gravel sample taken at NW end of trench

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 47
CREEK NAME: CASINO
TYPE: CREEK

PIT IDENTIFICATION NUMBER: TP-94-108

SURVEY COORDINATES

NORTHING	254 090	m
EASTING	112 620	m
ELEVATION	1005	m
AZIMUTH	227	deg.
INCLINATION	8	deg.

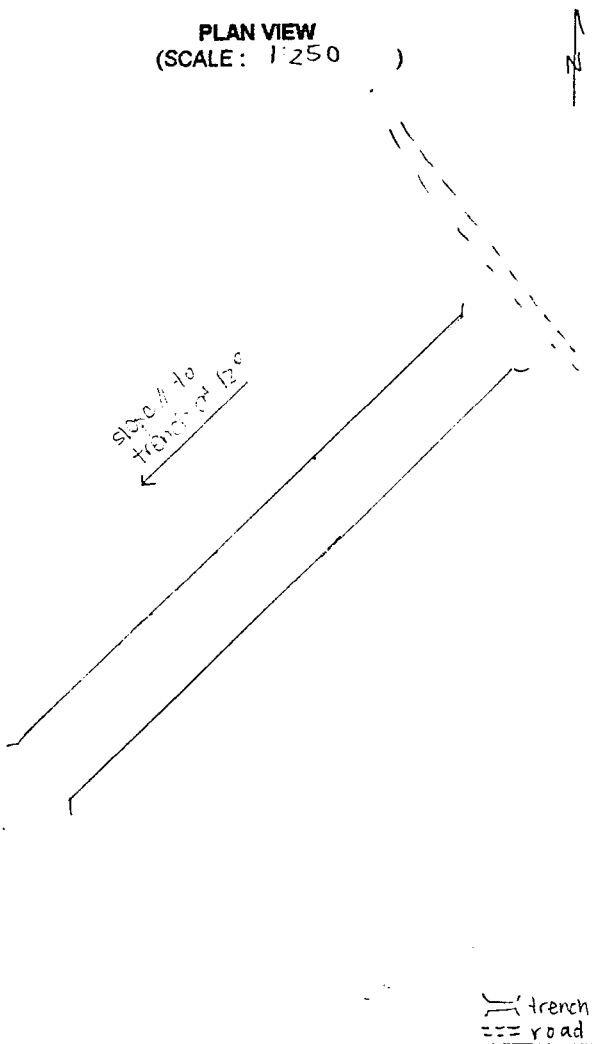
DIMENSIONS

AVERAGE DEPTH	3.5	m
AVERAGE WIDTH	2.5	m
LENGTH	20	m
VOLUME	175	Cu.m
	228.9	Cu.yd

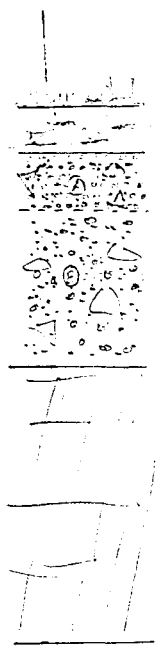
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Building Road	130.00	0.3	39.00
Geology	27.50	2	55.00
Geotechnical	27.50	2	55.00
TOTAL EXPENDITURES			149.00

PLAN VIEW
(SCALE : 1:250)



TRENCH PROFILE
(SCALE : 1:500)



0.0 m
VEGETATION: Moderate moss with some small bushes; tall black spruce, grasses

0.3 m
ORGANICS: Dark brown roots, moss, decaying wood etc, 40% sands

COLLUVIUM: (A) Tan to Brown fine to medium sands 30%, silt <5%, coarse sands 10-20%, fine to med pebbles 30%, crs pebble to boulders (>70s) = 20%
Lithologies: Granodiorite - larger fragments have little weathering with fresh feldspars and biotite ± hornblende. About 7 m into colluvium is a linear / horizontal contact between the top having approx 30% pebbles and another colluvium layer (B) with ~10% pebbles 50% fine to med sands

BEDROCK: Fresh granodiorite - blocky, almost tabular with a fracture set // with side of trench (227) at rear vertical.

STRUCTURE: Fault 16-20 cm wide near vertical trending at 211° at NE end of trench

SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

CLAIM NAME.: CASE 49
CREEK NAME: CASINO
TYPE: CREEK

T IDENTIFICATION NUMBER: TP-94-109

SURVEY COORDINATES

NORTHING	254 190	m
EASTING	112 510	m
ELEVATION	1017	m
AZIMUTH	157	deg.
INCLINATION	6°	deg.

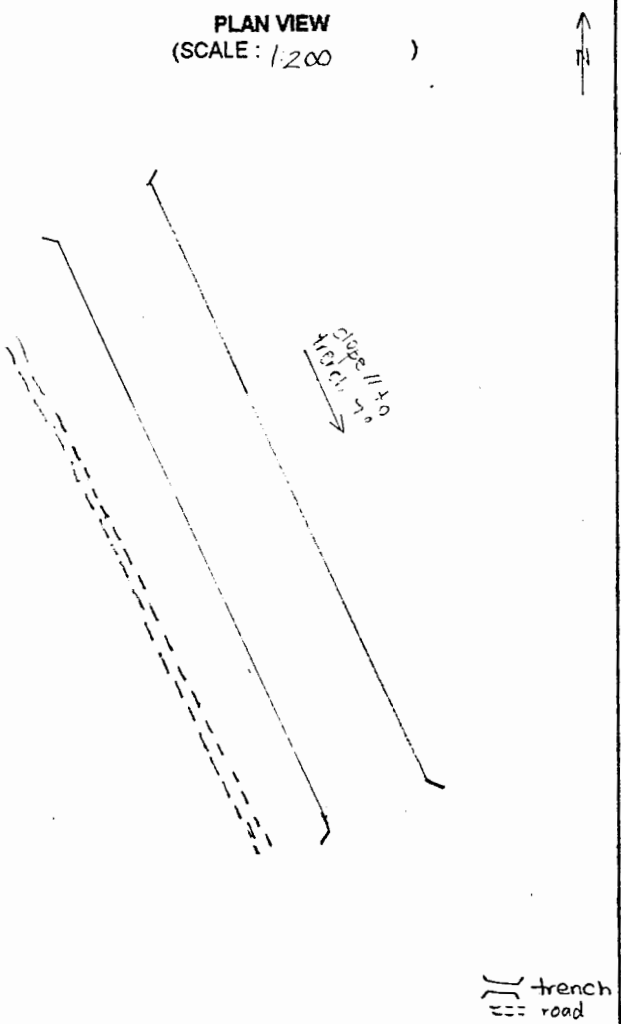
DIMENSIONS

AVERAGE DEPTH	4.6	m
AVERAGE WIDTH	2.8	m
LENGTH	17	m
VOLUME	218.96	Cu.m
	286.40	Cu.yd

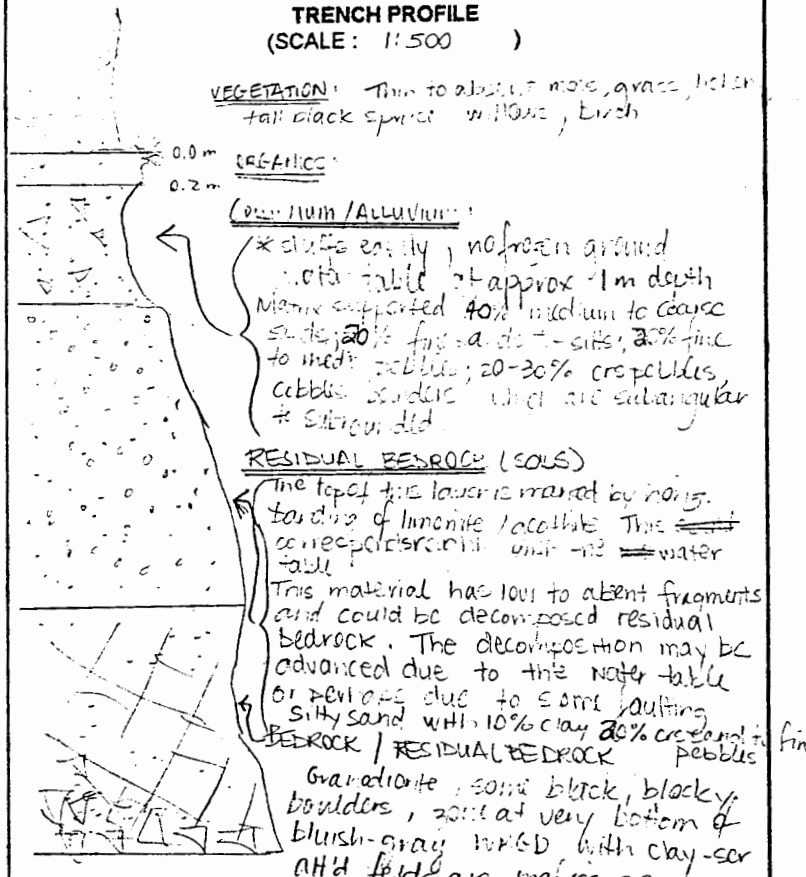
EXPENDITURES

TYPE	RATE/HOUR	HOURS	COST
Building Road	130.00	0.25	32.5
Geology	27.50	1.5	41.25
Geotech	27.50	1.5	41.25
TOTAL EXPENDITURES			115.00

PLAN VIEW
(SCALE : 1:200)



TRENCH PROFILE
(SCALE : 1:500)



SAMPLE NUMBERS:

SOIL
PLACER GRAVEL
ROCK

COMMENTS / DESCRIPTIONS: