MAP NO.:	**ASSESSMENT REPORT**	X	**DOCUMENT NO:** 092860
	PROSPECTUS		**MINING DISTRICT:** Dawson
115 O 14	**CONFIDENTIAL**	X	**TYPE OF WORK:** Geology, Geochemistry,
	OPEN FILE		Trenching

REPORT FILED UNDER: Klondike Reef Mines Ltd./Faith Mines Ltd.

DATE PERFORMED: May 29 - November 16, 1989 **DATE FILED:** July 25, 1990

LOCATION: **LAT.:** 63° 53'N **AREA:** Klondike

LONG.: 139° 15'W **VALUE $:** 120,817.60

CLAIM NAME & NO.: HAWK 25,26,43,61,63,64,84,85 YA 80013,14,31,49,51,52,72,73
DN 16,18,20,22,33 YA 32951,53,55,57,YA 47605
RON 1,11 YA 10300,310
JOE 5,7,10 YA 99613,615,618

WORK DONE BY: S. Tomlinson/P. Grunenberg

WORK DONE FOR: Klondike Reef Mines Ltd./Faith Mines Ltd.

DATE TO GOOD STANDING:	

REMARKS: #38 LONESTAR The 1989 program consisted of trenching, sampling placer pits, soil sampling and rock chip sampling. The best grab sample returned a value of 1.393 oz/t gold near 27 pup (tributary to Eldorado Creek.

indexed Dec 11/90

summarized Feb 24/91

FAITH MINES LTD.

KLONDIKE REEF MINES LTD.

GEOLOGICAL, GEOCHEMICAL, AND TRENCHING REPORT ON THE DAWSON PROPERTY

092860

DAWSON MINING DISTRICT, YUKON

NTS 115 O/14

BY: SCOTT TOMLINSON, B.S.c.

FEBRUARY, 1990

YUKON ASSESSMENT REPORT

PROPERTY: **DAWSON**

NTS MAP SHEET: **115O/14**

LATITUDE: **63°53′ N** LONGITUDE: **139°15′ W** **092860**

CLAIMS AND GRANT NUMBERS WORKED:

HAWK 25,26,43,61,63,64,84,85	**YA80013,14,31,49,51,52,72,73**
DN 16,18,20,22,33	**YA32951,53,55,57,YA47605**
RON 1,11	**YA10300,310**
JOE 5,7,10	**YA99613,615,618**

OWNERS OF PROPERTY:
Dawson Eldorado Gold Explorations Ltd.
Dawson Syndicate (1983) Exploration Ltd. Partnership
Faith Mines Ltd.
Karen Hawkes (nee Meier)
Klondike Reef Mines Ltd.

ADDRESS: **#1900 - 999 W Hastings Street**
Vancouver, B.C.
V6C 2W2

TELEPHONE: **(604) 687-6600**

OPERATORS: **Appian Resources Ltd.**
Faith Mines Ltd.
Klondike Reef Mines Ltd.

TYPE OF WORK: **Trenching**

DATES WORK WAS DONE: **May 29 to November 16, 1989.**

AUTHOR OF REPORT: **Scott Tomlinson, B.Sc.**

LIST OF PERSONNEL:
Scott Tomlinson, Hughes Lang Explorations Ltd.
Perry Grunenberg, Hughes Lang Explorations Ltd.

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 120,817.60.

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

GEOLOGICAL, GEOCHEMICAL, AND TRENCHING REPORT ON THE DAWSON PROPERTY

DAWSON MINING DISTRICT, YUKON

SUMMARY

The Faith Mines Ltd. and Klondike Reef Mines Ltd. Dawson projects' quartz claims are located in the Klondike Mining District of northwestern Yukon Territory, approximately 14 km (9 miles) south-southeast of Dawson City. The claims are situated along the valleys of Bonanza and Eldorado Creeks. These claims are adjacent to and overlie some of the most productive placer gravel deposits in the Klondike.

The geology of the claims indicates that the area is underlain by Klondike Schist which is considered to be genetically related to the source of the placer gold. Gold bearing horizons appear to be contained within broad anticlines which plunge north paralleling Eldorado and Upper Bonanza Creeks. Structurally, the area is further complicated with multiple stages of folding and faulting.

Mineral exploration in the Klondike has occurred since the late 1800's, but almost all efforts have concentrated on placer deposits. Lode gold exploration has consisted mostly of individual efforts to find high grade vein structures, although a few larger programmes involving trenching and drilling have also been carried out. The most successful venture was the Lone Star Mine, which produced 8,435 tons grading 0.148 oz/ton between 1912 and 1914. In 1980, Dawson Eldorado Gold Explorations Ltd. started a comprehensive exploration programme in the vicinity of the abandoned Lone Star mine. Geophysical and geochemical surveys, trenching, and drilling resulted in several significant anomalies.

In 1983, several companies of the Hughes Lang Group began to acquire and explore ground in the Klondike for hard rock gold potential. Work includes multiple geological, geochemical, and ground geophysical surveys, two airborne geophysical surveys, trenching, and diamond and rotary drilling.

The 1989 programme was designed to prospect both regionally for new gold occurrences and locally in the most encouraging area outlined in previous programmes (i.e. the abandoned Lone Star Mine and vicinity).

Results to date suggest that gold bearing horizons on the Lone Star property are stratabound within the Klondike Schists. These horizons are possibly syngenetic with the original mid-Permian volcanic deposition, or possibly due to later introduction of gold bearing fluids associated with Tertiary intrusives. Post- or syn-metamorphic quartz veins either remobilized gold from these source beds or were originally auriferous. Lode gold deposits in other areas of the Klondike are believed to have a similar genesis.

Further work should concentrate on developing the Lone Star area as a possible low grade, high tonnage deposit. Specifically, pattern rotary drilling is recommended to determine if an ore body is present. Additional regional work should try to extrapolate the known anomalies near Lone Star to other areas using geophysics, followed by pattern drilling.

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GEOLOGICAL, GEOCHEMICAL, AND TRENCHING REPORT ON THE DAWSON PROPERTY DAWSON MINING DISTRICT, YUKON

1. INTRODUCTION

This report covers the field program completed between May 29 and November 16, 1989 under the supervision of Project Geologist Scott Tomlinson of Hughes Lang Explorations Ltd. (formerly Mark Management Ltd.).

1.1 LOCATION AND ACCESS

Dawson City is, and has been since early gold rush days of 1897 and 1898, the principal population and supply center of northwestern Yukon. Until 1953 it was also the territorial capital. It can be reached via the two-lane, all-weather, Klondike Highway from Whitehorse on the Alaska Highway, a distance of 535 km (333 miles). Dawson City is presently served by scheduled flights from Whitehorse where connections to Vancouver or Edmonton are available.

The mineral claims are located 14 km (9 miles) south-southeast of Dawson City in the famous Klondike Mining District as shown in Figure 1. The claims are located along the valleys of Bonanza and Eldorado Creeks and are plotted in Figure 2.

Relief is on the order of 650 m (2128 ft) with elevations ranging from 495 m (1623 ft) to 1173 m (3851 ft). Terrestrial coordinates for the center of the claim block are as follows:

63^{o} 53′ North Latitude
139^{o} 15′ West Longitude.

Excellent access to the property is provided by the well maintained Bonanza Creek Road which connects with the Klondike Highway approximately 3 km (2 miles) east of Dawson City. The Bonanza Creek Road branches at the former site of the town of Grand Forks with roads going along both Bonanza and Eldorado Creeks. Several recently completed unimproved roads provide good access for 4X4 trucks within much of the claim group.

KLONDIKE REEF MINES LTD.

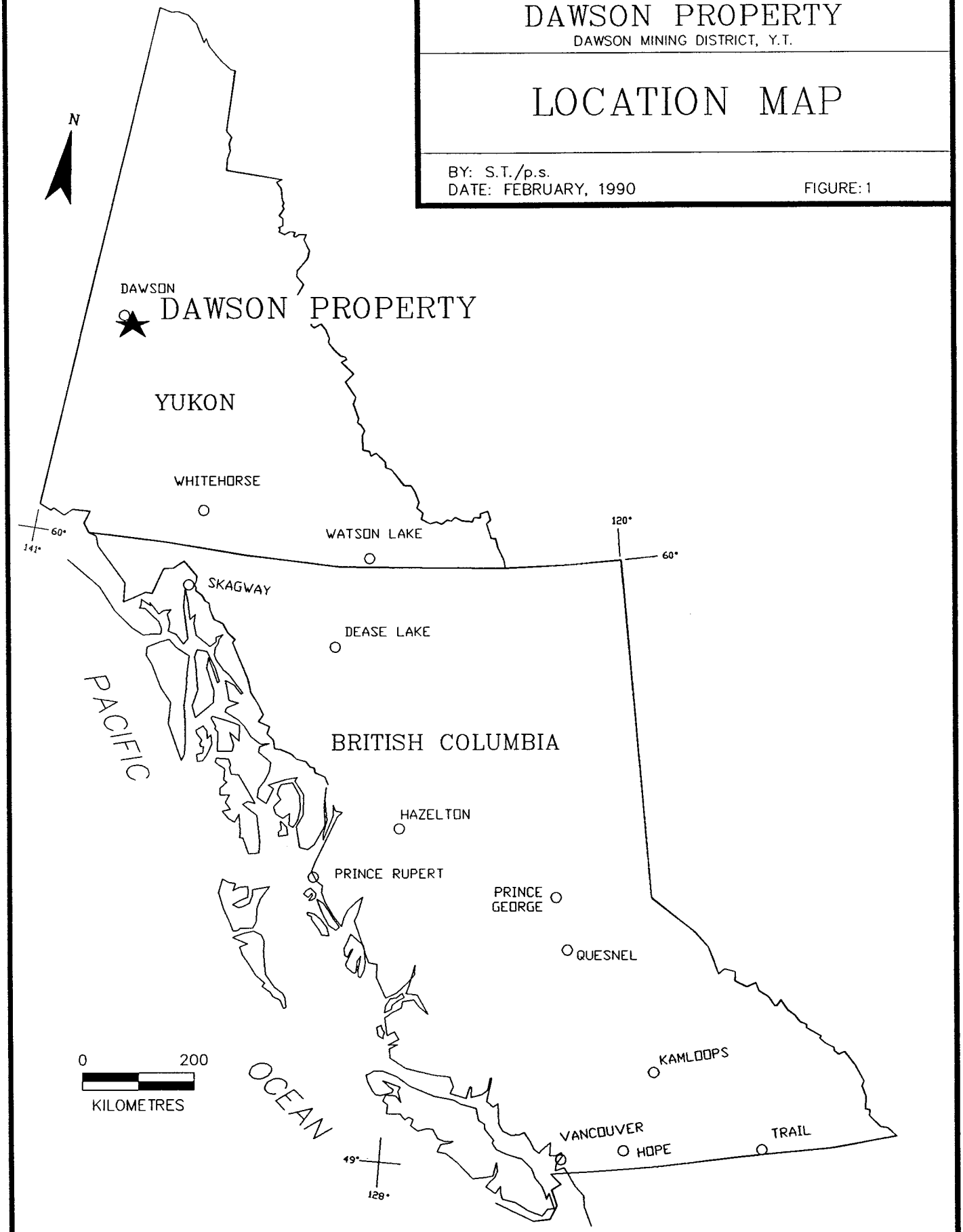
DAWSON PROPERTY

DAWSON MINING DISTRICT, Y.T.

LOCATION MAP

BY: S.T./p.s.
DATE: FEBRUARY, 1990

FIGURE: 1



1.2 PHYSIOGRAPHY AND CLIMATE

The Klondike region forms a part of the Yukon Plateau or upland surface which, locally, occupies an area between the Pacific and Alaskan Mountain Ranges to the west and northwest, the Ogilvie Mountains to the northeast and east, and the Dawson Range to the southwest and south.

The region has been described as a typical example of a thoroughly dissected upland which was elevated at one period in its history into a high plateau. This plateau was subsequently deeply eroded by a multitude of small streams, tributary to the main water courses. A secondary uplift resulted in further deepening of the valleys from 150 m (500 ft) to 200 m (700 ft). Portions of the old valley-bottoms, still covered with thick accumulations of gravel forming terraces of varying width, border the newer valleys (McConnell, 1905; also, G.S.C. Mem.84, 1957). Today, the valleys are flat and wide in their lower reaches, but gradually narrow toward their head waters into steep-sided gulches ending in broad, amphitheater-shaped bowls.

Locally within the Klondike region, the drainage is dominated by the northerly flowing Yukon River and its westerly flowing tributaries, the Klondike River on the north and the Indian River on the south. The intervening Klondike area to the east of the Yukon River is a gently rolling, mature and deeply dissected upland with tributaries to the Klondike and Indian Rivers radiating from a more or less centrally located topographic and drainage high point known as King Solomon Dome, located approximately 32 km (20 miles) southeast of Dawson City.

The Klondike proper occupies an area of approximately 30 by 60 km (18 by 37 miles), its long axis extending southeasterly from Dawson City which is situated at the northwestern apex of the main gold-producing region. Elevations within the Klondike range from 320 m (1050 ft) at Dawson City to 1295 m (4048 ft) at the top of King Solomon Dome, a span of approximately 915 m (3000 ft). The principle gold-producing streams of the Klondike originate near, and radiate in a general way from, King Solomon Dome, flowing eventually into the Klondike River on the north and the Indian River on the south and thence into the Yukon River.

The Klondike region was not glaciated and, as a result, the deeply weathered, pre-glacial, gently rolling upland surface has been preserved. A thick covering of decomposed schist, usually intermingled with slide rock, mantles the side hills nearly everywhere. On the ridges the covering is less; the schists, often worn into fantastic shapes, occasionally project above surface or crop out along the sides of the steeper hills.

The region has a northern continental climate, characterized by low precipitation and a wide temperature range. The winters are intensely cold and long, while the summers, although short, are pleasant with cool nights and warm days. Because of the land form there is a tendency for local micro-climates to develop at the bottom of steep valleys which involves higher summer maxima and lower winter minima than are recorded in Dawson City. Precipitation is only about 30 cm (12 inches) per year with more rain in summer than snow in winter. Most of the mountain ridges are free of snow by mid-July, but frost may occur at any time during the summer. As a rule, precipitation is so low that shortages of water for placer mining are sometimes experienced.

Vegetation is mixed boreal forest and tundra. Immature and stunted stands of aspen, balsam, poplar, and birch are present in the valley bottoms and are beginning to reclaim the older mining areas. Softwood timber consisting mainly of white and black spruce are limited to slopes and ridge tops.

1.3 CLAIM INFORMATION

The property is located in the Dawson Mining District of northwestern Yukon Territory and is comprised of 285 located mining claims and 14 Crown Granted claims covering an area of approximately 63 sq km (24 sq miles, Figure 2). Disposition of the claims is as follows in Table I:

TABLE I

CLAIM STATUS

COMPLETE LIST OF REGIONAL CLAIMS

Claims	Grants	Anniversary	Operator
"83" 1-40	YA79509-YA79548	1 Dec	Arbor Resources
"98" 1 PLUS	YA84260	16 Jul	Arbor Resources
"98" 1-12	YA79549-YA79560	5 Dec	Arbor Resources
"98" 13-16	YA79561-YA79564	5 Dec	Appian Resources
"98" 17	YA79565	5 Dec	Arbor Resources
"98" 18-21	YA79566-YA79569	5 Dec	Appian Resources
"98" 22	YA79570	5 Dec	Arbor Resources
"98" 23-27	YA79571-YA79575	5 Dec	Appian Resources
"98" 28	YA79576	5 Dec	Arbor Resources
"98" 29-60	YA79577-YA79608	5 Dec	Appian Resources
"98" 3 PLUS	YA84261	16 Jul	Arbor Resources
1FORTHEMONEY	YA84617	4 Sep	Arbor Resources
2FORTHESHOW	YA84618	4 Sep	Arbor Resources
3TOGETREADY	YA84619	4 Sep	Arbor Resources
AC 1-10	YA64270-YA64279	31 Dec	KLR/Dawson Eldorado

AC 11	YA64281	31 Dec	KLR/Dawson Eldorado
AC 12-35	YA65627-YA65650	31 Dec	KLR/Dawson Eldorado
ALPHA A-P	YA79850-YA79865	22 May	HLX Resources
ALPHA Q-T	YA84286-YA84289	24 Jul	HLX Resources
ARGYLE	LOT 223		KLR/Dawson Eldorado
BETSY 1-4	YA80516-YA80519	21 Jun	Arbor Resources
CATO	LOT 535		KLR/Dawson Eldorado
CHICO	YA84623	4 Sep	Arbor Resources
CIM 1-4	YA64519-YA64522	31 Dec	KLR/Dawson Eldorado
CLANCY 1-2	YA84615-YA84616	4 Sep	Arbor Resources
COMET 1-42	YA87834-YA87873	13 Feb	Arbor Resources
CRAZY 1-27	YA79611-YA79637	17 Feb	HLX Resources
DAWSON 1-24	YA79281-YA79304	14 Oct	Ebony Gold Corp
DAWSON 25-48	YA79305-YA79328	14 Oct	Cream Silver Mines
DAWSON 49-96	YA79329-YA79376	14 Oct	Aurizon Mines
DAWSON 101-124	YA79385-YA79408	21 Oct	Arbor Resources
DAWSON 126-132	YA79409-YA79415	21 Oct	Arbor Resources
DAWSON 134-140	YA79416-YA79422	21 Oct	Arbor Resources
DAWSON 141-180	YA79423-YA79462	21 Oct	Appian Resources
DAWSON 201-237	YA79463-YA79499	21 Oct	Texoro Resources
DAWSON 239-243	YA79500-YA79504	21 Oct	Texoro Resources
DAWSON 245-248	YA79505-YA79508	21 Oct	Texoro Resources
DE 1-14	YA55250-YA55263	31 Dec	KLR/Dawson Eldorado
DE 1-85	YB05138-YB05222	17 May	KLR/Dawson Eldorado
DE 87-170	YB05223-YB05306	17 May	KLR/Dawson Eldorado
DE 179	YB05307	17 May	KLR/Dawson Eldorado
DN 1-2	YA32783-YA32784	31 Dec	KLR/Dawson Eldorado
DN 3-9	YA47890-YA47896	31 Dec	KLR/Dawson Eldorado
DN 10	YA47082	31 Dec	KLR/Dawson Eldorado
DN 11-26	YA32946-YA32961	31 Dec	KLR/Dawson Eldorado
DN 27-31	YA47083-YA47087	31 Dec	KLR/Dawson Eldorado
DN 32-33	YA47604-YA47605	31 Dec	KLR/Dawson Eldorado
DN F	YA47088	31 Dec	KLR/Dawson Eldorado
DN 1F-2F	YA47090-YA47091	31 Dec	KLR/Dawson Eldorado
EHYOU 1-10	YA79870-YA79879	22 May	HLX Resources
ESTER EDNA	LOT 106		KLR/Dawson Eldorado
FILLER 1-8	YA84252-YA84259	16 Jul	Arbor Resources
FINIT 1-7	YA84608-YA84614	4 Sep	Arbor Resources
FISH 1-24	YA84476-YA84499	24 Aug	Arbor Resources
GLA 1-121	YB05453-YB05573	17 May	Rise/Dawson Eldorado
GROUCHO	YA84622	4 Sep	Arbor Resources
HARDY	YA84621	4 Sep	Arbor Resources
HARPO	YA84624	4 Sep	Arbor Resources
HAWK 1-139	YA79989-YA80127	18 Jun	Faith Mines
HAWK 140-154	YA80797-YA80811	22 Jun	Faith Mines
HL 1-135	YB05308-YB05442	17 May	KLR/Dawson Eldorado
HL 137-146	YB05443-YB05452	17 May	KLR/Dawson Eldorado
JOE 1-4	Y65536-Y65539	28 May	KLR/Hakonson
JOE 5-10	Y99613-Y99618	26 May	KLR/Hakonson
KH 1-10	YA80506-YA80515	18 Jun	Faith Mines
LADY 1-22	YA88034-YA88055	11 Jun	HLX Resources
LAUREL	YA84620	4 Sep	Arbor Resources
LONE STAR	LOT 410		KLR/Dawson Eldorado
MIKE 1	YB17462	29 Jul	HLX Resources

MIKE 2	YB17463	29 Jul	Arbor Resources
MIKE 3	YB17464	29 Jul	HLX Resources
MIKE 4	YB17465	29 Jul	Arbor Resources
MOON 1-55	YA79671-YA79725	27 Feb	HLX Resources
ND 1-22	YA49724-YA49745	31 Dec	KLR/Dawson Eldorado
ND F	YA47089	31 Dec	KLR/Dawson Eldorado
NEW BONANZA	LOT 408		KLR/Dawson Eldorado
NEW BONANZA NO.2	LOT 424		KLR/Dawson Eldorado
NIAN 5-6	YA79915-YA79916	15 Jun	HLX Resources
NIAN 11-12	YA79921-YA79922	15 Jun	HLX Resources
NIOBE FRACTION	LOT 409		KLR/Dawson Eldorado
NUGGET 1-10	YA88228-YA88237	14 Oct	Arbor Resources
PAULA 1-4	YA79866-YA79869	22 May	HLX Resources
PENIBE 1-31	YA84296-YA84326	24 Jul	HLX Resources
PLINC 1-35	YA84100-YA84134	3 Jul	Dawson Syndicate
PLINC 36-68	YA84135-YA84167	9 Jul	Dawson Syndicate
PORPHYRY LODE	LOT 104		KLR/Dawson Eldorado
Q 1-5	YA88185-YA88189	25 Aug	Arbor Resources
RADO 1-16	YB17012-YB17027	17 Jun	KLR/Dawson Eldorado
RADO 53-70	YB17064-YB17081	17 Jun	KLR/Dawson Eldorado
RADO 107-138	YB17114-YB17145	17 Jun	KLR/Dawson Eldorado
RADO 168-183	YB17175-YB17190	17 Jun	KLR/Dawson Eldorado
RADO 185-189	YB17191-YB17195	17 Jun	KLR/Dawson Eldorado
RADO 190-195	YB17456-YB17461	29 Jun	KLR/Dawson Eldorado
REEF 1-107	YA88289-YA88395	31 Oct	Arbor/Appian
REEF 191-197	YA88396-YA88402	31 Oct	Arbor/Appian
REKA 1-146	YBO4992-YB05137	15 May	Wealth/Dawson Eldorado
REX 1-51	YA84183-YA84233	31 Dec	KLR/Dawson Eldorado
RJ 1-32	YA64216-YA64247	31 Dec	KLR/Dawson Eldorado
RJ 39-60	YA65595-YA65616	31 Dec	KLR/Dawson Eldorado
RJ 62-63	YA65618-YA65619	31 Dec	KLR/Dawson Eldorado
RJ 65-70	YA65621-YA65626	31 Dec	KLR/Dawson Eldorado
RON 1-40	YA10300-YA10039	31 Dec	KLR/Dawson Eldorado
SHARON 1-33	YA79638-YA79670	22 Feb	HLX Resources
SHARON 35-39	YA84291-YA84295	24 Jul	HLX Resources
SHARON 40-59	YA84408-YA84427	1 Aug	HLX Resources
SNAKE 25A	YA84586	4 Sep	Arbor Resources
SNAKE 3-25	YA84563-YA84585	4 Sep	Arbor Resources
SNAKE 26-46	YA84587-YA84607	4 Sep	Arbor Resources
SURY 1-31	YA88123-YA88153	12 Aug	Cream Silver
SWASTIKA	LOT 533		KLR/Dawson Eldorado
SYNDICATE 1-83	YA79198-YA79280	16 Sep	Arbor Resources
THISTLE	LOT 536		KLR/Dawson Eldorado
TOM 1-46	YA89142-YA89187	1 May	Arbor/Appian
TOM 49-64	YA89188-YA89203	1 May	Arbor/Appian
UDAS	LOT 534		KLR/Dawson Eldorado
VI 1-15	YA55285-YA55299	31 Dec	KLR/Dawson Eldorado
VI 16	YA65523	31 Dec	KLR/Dawson Eldorado
VI 18	YA65525	31 Dec	KLR/Dawson Eldorado
VI 43-44	YA65550-YA65551	31 Dec	KLR/Dawson Eldorado
VICTORIA	LOT 86		KLR/Dawson Eldorado
WILD 1	YA79609	5 Dec	Arbor Resources
WILD CARD	YA79610	5 Dec	Arbor Resources
WILLIAM 1-8	YA79377-YA79384	18 Oct	Ebony Gold Corp

WITH 1-40	YA89727-YA89766	4 Aug	Arbor/Appian
YANKEE GIRL	LOT 105		KLR/Dawson Eldorado
ZEPPO	YA84625	4 Sep	Arbor Resources
ZIP 1-40	YA84428-YA84467	8 Aug	Dawson Syndicate
ZULU CHIEF	LOT 411		KLR/Dawson Eldorado

N.B.: KLR=Klondike Reef Mines

1.4 HISTORY AND PREVIOUS PRODUCTION

The colorful history of discovery, development and subsequent mining of placer gold in the Klondike has been documented by many authors and historians and is therefore treated only briefly herein.

The earliest reported discovery of gold dates to the mid-1880's, but not until the phenomenally rich 'Klondike Discovery' in 1896 on Bonanza Creek and the subsequent gold rush of 1897-98 was much interest paid to the area. Gold production from the Western Cordillera of Canada to the end of 1978 totals 35 million ounces, of which over 11 million ounces were produced from the Klondike.

The mining history of the Klondike can be divided into four overlapping periods: 1) hand and primitive mining, 2) dredging, 3) dormant and 4) renewed activity.

Hand and primitive mining methods lasted about nine years (1896 to 1905) and were undertaken usually by individuals or small groups. Production through these early years was estimated by McConnell in 1905 to have been over 5.5 million ounces; this production was primarily by shaft sinking and drifting along bedrock or by open-cut mining. When water was available and the topography allowed the use of hydraulicking operations, good results were possible.

The first dredge was introduced in 1903, and although there were some non-production years during the start of this period, the last dredging operation ceased production in 1966. During the more than 60 years of dredging over 400 million yards of creek and river gravels were treated and more than 5.5 million ounces of gold recovered.

Dredging operations began to decline in the late 1950's and ended in 1966, initiating a 10 to 20 year dormant period. During this time only a few individuals worked their claims on a part-time basis.

In 1977, interest and activity resumed with the increase in the price of gold. Today the area is very active; many operators have introduced the largest earth moving equipment available, and for five months a year the area is alive with small and medium-sized operations re-working or re-examining the area.

The earliest known staking for lode deposits was in 1899 on an auriferous quartz vein known as the Corthay Vein (Maclean,1914). This vein was later mined by the Lone Star Company. At about the same time as the initial staking, numerous other auriferous sulfide-bearing, quartz veins were discovered in the region. It appears, however, that little real work was completed on any of the lode prospects until 1910. In 1909, the Lone Star Company Ltd. was organized to explore the Lone Star property which was the most promising lode prospect at the time.

Historical accounts show that the Lone Star Company mined 8,435 tons grading 0.148 oz/ton Au from the mine site between 1912 and 1914 (Roche,1916). A 4-stamp mill processed the ore and amalgamation recovered the gold. It appears that sulfides were discarded and only free gold was recovered. The ore was mined without selection from a 105 m long open cut which was up to 10 m wide and 8 m deep. Downward extension of the mineralization was tested by a 7 m deep shaft and a cross-cut 18 m below the open cut. By 1914 there had been 230 m of drifting under the cut, 70 m of which was on the Corthay Vein. In 1914, grades dropped substantially after a fault was encountered and subsequent caving and rising labour costs caused the mine to close.

1.5 PREVIOUS WORK

The area is partially covered by placer leases and, since the turn of the century, much of the area has been held for its lode potential. The general area surrounding the Lone Star has been intermittently prospected since the turn of the century. Numerous small pits and trenches on surface showings of quartz float or veins are scattered along the Lone Star ridge and attest to the considerable primitive exploration that took place during the early days of the Klondike.

At the end of World War I, the Lone Star Company was reformed as Consolidated Lone Star Ltd. and resumed work during the 1925-1929 period; however, the work was without much success. By 1931, a new adit (190 m long) and raise (30 m) had been driven under the cut to connect the older, caved workings.

Yukon Consolidated Gold Corp. Ltd. optioned the property in 1946-47 and drove a 60 m cross-cut from the 1930-31 underground working for the purpose of exploring the northern end of the open cut. Six churn drill holes totalling 205 m and eight surface trenches were completed, all within 300 m of the north end of the cut. The company attempted to trace the northern extension of the mineralization; however, the results proved inconclusive and the option was terminated. The Lone Star Mine site workings have not been explored substantially since.

In 1960, the property was acquired by Klondike Lode Gold Mines Ltd. This group conducted the first systematic exploration of the area outside of the limits of the old workings. Contour-controlled bulldozer trenching was carried out on various parts of the claim group, and overburden samples from the trenches were panned and sluiced to determine gold content. Results were encouraging and six diamond drill holes totalling 238 m (781 ft) were drilled on the Eldorado Creek side of the claims in 1962. The project was abandoned in 1962 due to lack of funds.

In 1979-80, Klon Explorations Company Ltd. carried out VLF-EM and magnetometer surveys across Eldorado Creek at French Gulch. This was followed by minor diamond drilling in an attempt to locate what were believed to be auriferous structures beneath the creek. A coincident programme involving reverse circulation drilling in the creek to locate buried placer gold was also conducted. This project was also hampered by lack of funds and was terminated in 1980.

Dawson Eldorado Gold Explorations Ltd. acquired its present land position between 1980 and 1985 and were the first to attempt to understand the complex geological, geochemical, and mineralogical relationships involved with the property. In 1980, a resistivity survey was conducted over the Lone Star workings, with limited success (permafrost being the main problem). During 1981, much of the central portion of the claim group was soil sampled at 120 m stations using conventional sampling techniques, and several bulldozer trenches were sampled. In 1984, the soil sampling grids were extended and additional bulldozer trenches were excavated. In 1985, six rotary drill holes, totalling 168 m, were drilled in the vicinity of anomalous zones as outlined in the 1960 and 1981-84 programmes.

Exploration continued by Mark Management Ltd. for Arbor Resources and an extensive programme was completed during 1986 and early 1987. This programme included 86 km of magnetometer, 3 km of VLF-EM16, and 31.3 km of Induced Polarization (I.P.) surveys. Reconnaissance work included 250 soil and 42 rock chip samples. Targets outlined by this ground work were later drilled, and a total of 2,617 m of diamond and 2,807 m of rotary drilling were completed. Diamond drill holes intersected strataform disseminated sulfide horizons which contained gold values up to 0.357 oz/T. These were commonly bounded by wider zones of lower grade gold content.

A low level helicopter supported airborne geophysical survey was carried out by Aerodat Limited of Mississauga, Ontario, during December 1986 and January 1987. Ground follow-up included 10 km of VLF-EM16 survey and 18 km of I.P. survey. An extensive grid was established over the ridge between Upper Bonanza and Eldorado Creeks, with 1588 soil samples and 29 rock samples being collected. Targets outlined by these surveys were eventually trenched and drilled, with 23 bulldozer trenches, 1,690 m of diamond drilling and 4,063 m of rotary drilling being completed. Many gold bearing intersections were obtained, with two main zones of interest outlined, near Gay Gulch and near the old Lone Star mine workings. One trench near the former zone, 87TR08, returned an assay of 7.086 oz/t. Geological interpretation indicates that these two zones are stratigraphically related through anticlinal folding, with the fold axis along the ridge between Eldorado and Upper Bonanza Creeks.

In 1988, 18 km of VLF-EM16 and 9 km of Induced Polarization geophysical surveys were done. In addition, 1,437 'B' horizon soil samples on four grids and 61 rock chip samples were taken. This was followed by 39 bulldozer trenches and a further 1,352 rock chip samples.

1.6 WORK COMPLETED IN 1989

The 1989 field programme included observing the bedrock exposed and the nature of the gold recovered from local placer operations. Two areas were systematically panned for Heavy Mineral Concentrates, with 14 samples taken on French Gulch and 18 samples taken near Oro Grande Gulch. These samples recovered elluvial gold probably derived from a very local bedrock source.

A small soil sampling programme was carried out on Gold Hill, during which a total of 19 soil samples. Two samples returned anomalous values for gold of 95 and 140 ppb.

Also, a total of 90 rock chip samples were taken from various localities on the property. Several significant assays were returned from these samples, including one assay of 1.393 oz/t from near 27 Pup. Three diamond drill holes drilled in 1986 in French Gulch that were not previously completely sampled were systematically resplit and assayed, but no economic values resulted.

A number of bulldozer trenchs were excavated to expose geochemical and geophysical anomalies outlined by provious work and recent placer mining. These include: one trench on Upper Bonanza Creek; two trenches on Upper Eldorado Creek; four trenches near Oro Grande Gulch; seven trenches near 27 Pup; and seven trenches near French Gulch. Additional trenches excavated for placer testing purposes were inspected. A total of 88 rock chip grab and channel samples were taken from these trenches. The highest assays came from the 27 Pup trenches, with gold values up to 0.197 oz/t.

2. GEOLOGY

2.1 GENERAL GEOLOGY

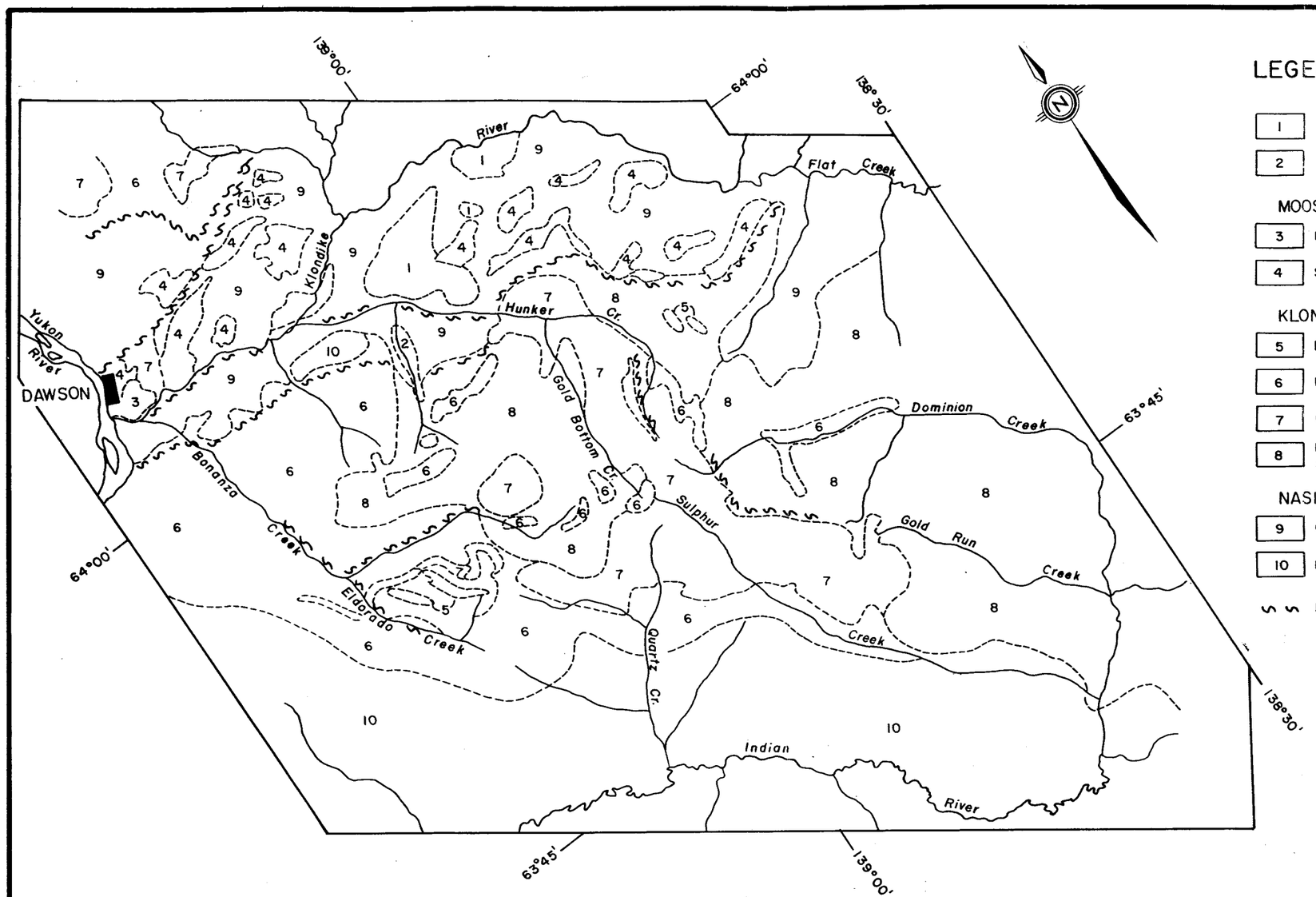
Bedrock exposures amount to less than one percent of the area and are generally confined to gulches, recent landslide areas, and road cuts. The Klondike district was first mapped by Bostock (1942), and more recently by Metcalfe (1981) and Debicki (1984 and 1985). Bedrock in the Klondike area is generally grouped into five major units which are, from oldest to youngest, the Nasina Series, the Klondike Series, the Moosehide Assemblage, early Tertiary volcanics/volcanoclastics and Tertiary intrusives. An overview of the geology is shown in Figure 3.

Rocks of the Nasina Series consist of graphitic schists, graphitic quartzites and siliceous marbles with minor chlorite schists and muscovite schists. These rocks have been metamorphosed to grades ranging from upper greenschist to middle amphibolite facies, and appear to have been derived from marine offshore sedimentation similar to that found along continental shelves. Field studies indicate that the Nasina Series pre-dates the Klondike Series; thus, an age of formation in the late Carboniferous to mid-Permian is likely.

Most rocks exposed in the Klondike district predominantly belong to the Klondike Series. These are quartzofeldspathic schists containing varying amounts of chlorite, muscovite and sericite. They have undergone upper greenschist to middle amphibolite grade metamorphism and at least four separate deformational events. This series appears to represent water lain arkosic sediments and rhyolitic to andesitic tuffs derived from a succession of stratovolcaniclastic venting. The minimum estimated age of formation of the Klondike Series lies within the middle Permian. The Klondike formation has a conformable basal contact with the structurally underlaying rocks of the Nasina Series (Metcalfe), although field studies indicate a low angle thrust contact.

To the west the Klondike Schists are in contact with a blocky weathering, granitic textured, biotite-quartz-feldspar orthogneiss. Thin section studies of these rocks indicate that they were originally medium to coarse grained plutonic rocks of granodiorite to quartz diorite composition, and may represent the magmatic source for those tuffs now comprising the Klondike Series. Zircon dating of these rocks indicates an age of emplacement between Late Devonian and early Carboniferous (Mortensen).

The age of metamorphism of the Klondike and Nasina Series formations has been placed in the Late Triassic (Metcalfe).



LEGEND

- 1 QUARTZ FELDSPAR PORPHYRY
- 2 CLASTIC SEDIMENTS AND VOLCANICS

MOOSEHIDE ASSEMBLAGE

- 3 MASSIVE GREENSTONE AND DIABASE
- 4 SERPENTINITE AND ALTERED ULTRAMAFIC ROCKS

KLONDIKE SERIES

- 5 MUSCOVITIC QUARTZITE
- 6 MUSCOVITE AND QUARTZ MUSCOVITE SCHIST
- 7 CHLORITIC SCHIST
- 8 MUSCOVITIC AND CHLORITIC QUARTZITE AND FELDSPATIC QUARTZITE

NASINA SERIES

- 9 CARBONACEOUS PHYLLITE AND SCHIST
- 10 METAGRANODIORITE

S S FAULT (NATURE UNCERTAIN)

NOTE: MODIFIED FROM MORTENSEN, 1985

KLONDIKE REEF MINES LTD.

DAWSON PROPERTY

DAWSON MINING DISTRICT, Y.T.

REGIONAL GEOLOGY OF THE KLONDIKE

BY: S.T./p.s.
DATE: MARCH, 1990

FIGURE: 3

Structurally overlying rocks of the Klondike and Nasina Series are occurrences of greenstone and altered ultramafics belonging to the Moosehide Assemblage. Included in the ultramafic unit are a variety of rock types including massive, partially serpentinized peridotite (harzburgite), massive to sheared serpentinite, silica-carbonate altered serpentinite, and talc-carbonate schist. Massive greenstone and strongly altered, fine to medium grained diabase are exposed in several steep bluffs in the vicinity of Dawson. These rocks are unfoliated and form part of a slab of greenstone and serpentinite that underlies the southwestern slope of the Midnight Dome east of Dawson. Occurrences of greenstone and ultramafic rocks are commonly found along the sheared contact between the Klondike and Nasina Series rocks. They are thought to represent exotic slices of uncertain origin (ophiolite?), structurally emplaced during thrust faulting.

Gently folded andesitic volcanics and clastic sediments belonging to the Carmacks suite are present in the Last Chance Creek area. These rocks were considered to be early Tertiary in age, however, recent work on similar rocks in the Indian River area suggests that these rocks are middle Cretaceous in age.

Intrusive rocks are present as numerous dykes and sills ranging in nature from diabase to rhyolite. These have been dated as Tertiary to early Quaternary in age. Larger Tertiary intrusive bodies are rare in the Klondike except for a rhyolite porphyry stock that outcrops along Hunker Creek. Isotopic dating (Debicki) indicates that the porphyry is approximately 50 to 60 million years old.

Figure 3 is a generalized geologic map of the Klondike showing the approximate distribution of the Klondike Schist.

2.2 PROPERTY GEOLOGY

The geology of the property, as currently understood, was chiefly determined from the examination of trenches, road cuts and diamond-drill core, and the interpretation of geophysical information, as there are few outcrops. The property is underlain almost entirely by facies of the Klondike Schist. Lithological and structural continuity has been disrupted by folding and faulting. Age relationships of the various lithologies are largely unknown since tops cannot be determined and contacts are either gradational, interlayered, or faulted.

Rocks on the property are comprised of well-foliated, rust-yellow weathering, light grayish-green, undifferentiated chloritic schists, muscovite schists, and quartz-sericite schists. These schists are interbedded with narrow lenses of calcareous graphitic schist, particularly along Eldorado Creek, and with

fine-grained, massive, tan weathering, grey-brown micaceous quartzites. Graphitic schists are traceable as marker horizons in stratigraphy.

The micaceous schists and quartzites commonly contain up to 15% small, blue quartz eyes. The quartz eyes may represent crystals, tuff fragments, or porphyroblasts.

To the west of the claim group the Klondike Schists are in contact with a blocky weathering, granitic textured, biotite-quartz-feldspar orthogneiss. Thin section studies of these rocks indicate that they were originally medium to coarse grained plutonic rocks of granodiorite to quartz diorite composition, and may represent the original magma for those tuffs now comprising the Klondike Series.

All formations are interrupted by a number of north to north-west trending, magnetite bearing, quartz-feldspar porphyry (rhyolite) and diabase dykes which may be up to 60 m wide. Diabase dykes often contain serpentine alteration near surface; previously these had been mis-interpreted as thin ultramafic bodies. The dykes cut most structural trends but are offset by more recent northwest striking faults. The dykes may occupy old fault zones, and in places apparent offsets in strata of up to 300 m are recorded. No extensive metamorphic halos are reported to be associated with these dykes.

Numerous quartz and quartz-carbonate lenses and pods dot the hillsides on the property. These are mostly stretched along the primary foliation plane within the schists, and were likely metamorphically produced. Thin section studies indicate that the quartz developed under stress under moderately deep-seated, possibly mesothermal conditions. The majority of these lenses have a mappable strike length of under 100 m and widths of 30 to 100 cm. Quartz veins often contain galena, and are thought to be of a higher temperature mesothermal origin. The margins of quartz veins are often lined with pyrite, and in places visible gold has been found within the oxidized boxworks of pyrite (trench samples) at the quartz-country rock contact.

The local geology is complicated by a series of northwest trending antiforms and synforms. Interpretation of these features indicates that the schists are folded into a broad northwest trending anticline, with the hinge roughly following the ridge between Upper Bonanza and Eldorado Creeks. The repetition on graphitic schist horizons along Eldorado Creek to those found near the old Lone Star mine and Victoria Gulch likely trace the opposing limbs of such an anticline. All stratigraphy in between would be subject to a similar kind of repetition. This is important if ore horizons prove to be strataform.

Foliation is generally parallel to regional stratigraphic trends, except along Eldorado Creek, where strikes are westerly with dips to the south.

The target horizon for gold within the Klondike schists is outlined as a unit of quartz-muscovite schist which contains some combination of pyrite, arsenopyrite, mariposite, or grey colored carbonate blebs (diamond drill core observations). The gold bearing units intersected near the old Lone Star mine may by genetically related to those intersected near Gay Gulch. The source then represents a particular time horizon of volcanogenic deposition which resulted in the formation of some or all of the above minerals, as well as gold.

2.3 ECONOMIC GEOLOGY

With few exceptions, economic geology of the area has always been focused on the placer deposits. Since production began in 1896, the Klondike district southeast of Dawson City has been the source of more than half the placer gold produced in western Canada. This amounts to over 11 million ounces which at today's price represents over five billion Canadian dollars.

The earliest reported study on the lode deposits was by Cairnes (1911) in which he briefly described the development work on some of the more promising quartz veins in the district. One property (Boulder Lode), near the head waters of Victoria Gulch, a tributary of Bonanza Creek, was considered the source of the gold in the gulch, and along part of Bonanza Creek. The principal vein, with its associated surrounding mineralized zone, varied in thickness from 1 to 3 m (3 to 10 ft) and was traceable along strike for 120 m (400 ft) with a possible extension of another 200 m (600 ft). Cairnes failed to indicate the grade of this deposit, but he suggested that the gold content was in excess of 0.25 oz/T. Reserves in this vein indicated approximately 1,500 tons per meter containing about 400 ounces per meter. McConnell (1905) reported that ten 500 foot wide placer claims along Victoria Gulch and Bonanza Creek produced over 200,000 ounces: the implication is that all the gold recovered in the placers could not have come solely from this vein.

Diamond drilling in 1986 of geochemical and geophysical targets near the Boulder Lode intercepted several sulphide rich horizons within quartz-muscovite and chloritic muscovite schists. Fire assays of samples from these zones detected gold values up to 0.357 oz/T. None of these gold bearing horizons were related to any quartz veining as studied by Cairnes. Rotary drilling during January and early February 1987 intersected several gold bearing zones between Oro Grande and Gay Gulches. Fire assays of samples from these zones detected gold values up to 0.230 oz/T at depths ranging from 6 m to 145 m (20 to 475 ft).

Continued trenching and drilling during 1987 and 1988 has further confirmed and expanded the gold bearing horizons as outlined in previous drilling near the old Lone Star workings, and between Oro Grande and Gay Gulches.

3. GEOCHEMISTRY

3.1 HEAVY MINERAL CONCENTRATE SAMPLES

A total of 32 Heavy Mineral Concentrate (HMC) Samples were taken in two areas, as shown in Figure 4. Sample locations were carefully chosen to avoid any fluvial placer gold. Three trenches excavated near Oro Grande Gulch were sampled at 18 sites to test the "nugget effect" that may have prevented previous soil samples from detecting high grade veins. The south bank of French Gulch had 14 systematic samples taken to determine the upstream limit of elluvial gold.

At each site a 10 litre volume of material was taken. Samples were usually from the "B" or "C" soil horizon. The samples were wet sieved to -20 mesh and then hand panned until mostly heavy minerals were left.

Because the purpose of the sampling involves locating relatively large gold particles, the samples were not chemically analyzed. Instead the number, size, and nature of the gold flakes was observed and recorded in the field. The results of the sampling are shown below in Table II.

TABLE II

HMC SAMPLE DESCRIPTION AND RESULTS

SAMPLE	DESCRIPTION OF CONCENTRATE	GOLD RECOVERED
89PAN1	minor py & black sand	
89PAN2	minor py & blk sand	
89PAN3	almost no heavies	
89PAN4	almost no heavies	
89PAN5	almost no heavies	3 specks
89PAN6	almost no heavies	
89PAN7	minor heavies	3 flakes
89PAN8	minor heavies	4 flakes
89PAN9	almost no heavies	
89PAN10	minor heavies	8 flakes
89PAN11	minor heavies	5 specks
89PAN12	moderate py & blk sand	1 speck
89PAN13	almost no heavies	
89PAN14	permafrost; almost no heavies	
89OGTR1-PAN1	almost no heavies	
89OGTR1-PAN2	almost no heavies	

89OGTR1-PAN3	qtz; almost no heavies	
89OGTR1-PAN4	qtz; almost no heavies	
89OGTR1-PAN5	qtz; almost no heavies	
89OGTR1-PAN6	qtz; moderate heavies	1 flake, 12 specks
89OGTR2-PAN1	moderate heavies	
89OGTR2-PAN2	qtz; moderate heavies	1 speck
89OGTR2-PAN3	qtz; moderate heavies	1 speck
89OGTR2-PAN4	qtz; moderate heavies	1 speck
89OGTR2-PAN5	qtz; moderate heavies	1 speck
89OGTR2-PAN6	qtz; moderate heavies	4 flakes,16 specks
89OGTR2-PAN7	qtz; moderate heavies	5 flakes
89OGTR2-PAN8	almost no heavies	1 speck
89OGTR3-PAN1	moderate heavies	2 flakes, 2 specks
89OGTR3-PAN2	qtz; moderate heavies	8 flakes, 5 specks
89OGTR3-PAN3	qtz; almost no heavies	
89OGTR3-PAN4	qtz; almost no heavies	1 speck

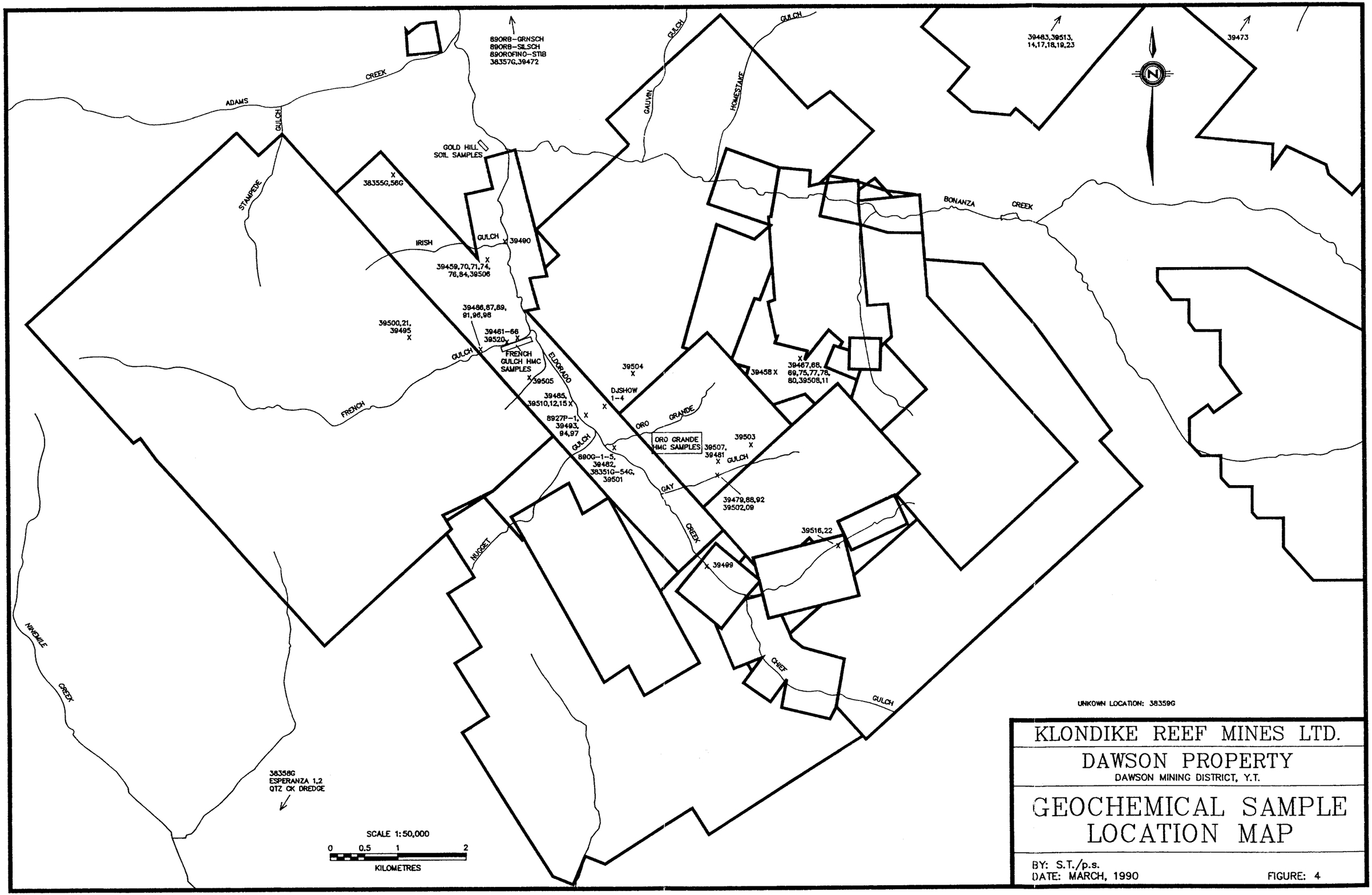
N.B.: qtz = quartz fragments in overburden
flake = gold particle over 0.5mm
speck = gold particle under 0.5mm

The results of the panning of the Oro Grande trenches indicates that coarse grained gold can occur over weathered quartz veins, and therefore traditional soil sampling may not be effective in locating high grade veins. The French Gulch HMC samples suggest that for gold derived from the southern bank the upstream limit is near the end of the present placer mining operation.

3.2 SOIL SAMPLING

Nineteen soil samples were taken from one grid on Gold Hill, the Creek bench south of Skookum Gulch, as shown in Figure 4. Analysis results were hoped to indicate whether or not hydrothermal activity, due to covered faults, had affected the very rich placer gravels on this bench.

Samples were taken at 25 metre intervals along a marked survey grid. At each site a hole was dug until fresh material was exposed, usually 15 cm deep. As the samples were taken over altered gravels and (or) bedrock, they are not true soil samples.



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DAWSON PROPERTY

DAWSON MINING DISTRICT, Y.T.

GEOCHEMICAL SAMPLE LOCATION MAP

BY: S.T./p.s.
DATE: MARCH, 1990

FIGURE: 4

The samples were then sent to Chemex Labs Ltd in North Vancouver. There they were oven dried and sieved to -80 mesh; the coarse fraction was then discarded and the fine fraction pulverized for analysis. Gold was analyzed using the Fire Assay - Atomic Absorption (FA-AA) method, and 32 additional elements were analyzed using the Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES) technique.

Two samples returned anomalous values for gold; GHBL 2+00E had 95 ppb, and GHBL 2+25E had 140 ppb. However, these results may be due to placer contamination. None of the characteristic elements of a hydrothermal system (As, Hg, Sb) were anomalous, indicating that no significant mineralizing solutions localized along any faults that may be present.

3.3 ROCK CHIP SAMPLES

A total of 90 rock chip samples were taken from various sites in the Klondike. Almost all are within the property's boundaries, although a few are from adjacent areas to help understand the regional geology. Samples were taken from outcrops that appeared significant either geologically or economically. Sample locations are shown in Figure 4.

Samples were mostly taken at outcrops, although occasionally dredge tailings were analyzed. Typically, material was selectively sampled (i.e. mineralized portions of the outcrop).

The samples were sent to Chemex Labs Ltd in North Vancouver, where they were crushed to -200 mesh. The samples were screened for metallics to ensure that coarse grained gold would be assayed. Gold was assayed using the FA-AA method, and 32 additional elements were analyzed using the ICP-AES technique.

The analysis results are listed in the Appendix. Significant analysis results were returned from 26 rock samples. The samples, a brief rock description, and analysis values of interest are listed below in Table III.

TABLE III

ROCK CHIP SAMPLE DESCRIPTION AND RESULTS

SAMPLE	ROCK TYPE	ANALYSIS RESULTS
DJSHOW1	quartz vein	0.012 Au (oz/t), 37.2 Ag, 3050 Pb
DJSHOW2	limonite	1.393 Au (oz/t), 40.6 Ag, 1555 Pb
DJSHOW3	qms	0.133 Au (oz/t)
DJSHOW4	channel of above	0.503 Au (oz/t), 17.4 Ag
ESPERANZA1	bleached q eye s	0.039 Au (oz/t)
89OG-02	graphitic schist	1045 As
89ORB-GRNSCH	mari carb schist	260 As, 890 Cr, 11.65 Mg, 999 Ni
89OROFINO-STIB	moly qms	2840 Mo
39458	quartz	105 Au
39473	ultramafic	195 As, 1260 Cr, 14.30 Mg,1260 Ni
39477	qms	1280 Au
39478	qms	4100 Au
39480	qms	1300 Au
39481	quartz vein	720 Au
39488	quartz vein	240 Au
39489	quartz	125 As
39493	shear & quartz	700 Au
39500	-	100 Au
39501	-	460 Au
39503	-	175 As
39508	qms	150 Au
39511	shear & quartz	9000 Au
39513	carb schist	815 As, 611 Cr, 8.92 Mg, 609 Ni
39517	azu carb schist	1260 Au, 17.2 Ag, 300 As, 431 Cr, 2600 Cu, 7.11 Mg, 751 Ni
39520	quartz vein	3420 Au
39523	gal carb schist	17.6 Ag, 930 As, 472 Cr, 9.42 Mg, 695 Ni, 2920 Pb

N.B.: qms = quartz muscovite schist
q eye s = quartz eye schist
carb = carbonatized
mari = mariposite
azu = azurite
gal = galena
moly = molybdenite
Analysis values are in ppm, except for Au which is in ppb (unless otherwise indicated) and Mg which is in %.

Most of the high gold assays came from quartz veins in areas known to be auriferous. These include the Lone Star area, the Gay Gulch - Oro Grande area, and French Gulch. However, three new areas were discovered to contain anomalous gold values. The ESPERANZA 1 sample from the Indian River is a highly altered, pervasively silicified quartz augen schist with disseminated pyrite and surface coatings of alum and sulphur. The second new discovery was sample 39517 on Hunker Creek, a carbonatized schist with azurite coatings. The final new area was on 27 Pup, a small tributary of Eldorado Creek. This showing was uncovered in the summer of 1989 by a local placer miner who recovered very coarse gold (with one nugget over 10 ounces) from the alluvial soils. The mineralization is mostly in a limonite alteration selvage of thin irregular quartz veinlets, with some gold in adjacent country rocks (quartz muscovite schist). Samples DJSHOW1, 2, 3, and 4 and 39493 are all from this locale.

Chromium, Magnesium, and Nickel (Cr/Mg/Ni) anomalies are intercorrelated and are found either at the mouth of Bonanza Creek or along Hunker Creek. These anomalies are due either to ultramafic rocks or to carbonatization, with or without mariposite, of schists.

Arsenic is always found with the Cr/Mg/Ni anomalies mentioned above. In addition, arsenic may be anomalous by itself, probably as a result of arsenopyrite from quartz veins.

Silver, lead, and copper mineralization is associated with either gold or Cr/Mg/Ni anomalies.

Molybdenum was anomalous in only one sample, 89OROFINO-STIB, located on Oro Fino Hill near Bonanza Creek. The molybdenite formed as a thin coating between schist layers, and is an isolated occurrence.

4. TRENCHING

A total of 21 trenches were excavated on the property for hard rock purposes. Of these, three, 89OGTR01, 02, and 03 were systematically pan sampled for visible gold (as described in section 3.1). A further ten trenches were rock chip sampled. Trenches 8927PTR1 to 4, 89DJNUGTR, and 89DJSHOWTR were all sampled due to the presence of high grade placer deposits in the overburden (one hard rock trench in this area was not sampled due to poor exposure of bedrock). Trenches 89UELDTR01 and 02 and 89UBON (taken from a road cut adjacent to the trench) were sampled based on interesting geology. Lastly, trench 89OGTR04 was sampled to attempt to intersect a geochemical anomaly. Trench locations are shown in Figure 5, and details of the trenches from the 27 Pup and Oro Grande areas are shown in Figures 6 and 7 respectively.

The trenches were excavated using either a Caterpillar D8 or D9 bulldozer. The sampling method varied from one trench to another: trenches systematically sampled were channel sampled; trenches that had no specific target were grab sampled; and where high grade gold was suspected the trenches were selectively sampled at quartz veins or shear zones.

The trench samples were processed in a manner similar to the rock chip samples (see section 3.3).

The analysis results are listed in the Appendix. Significant analysis results were returned from 19 trench samples. The samples, a brief rock description, and analysis values of interest are listed below in Table IV.

TABLE IV

TRENCH SAMPLE RESULTS

SAMPLE	ROCK TYPE	ANALYSIS RESULTS
8927PTR1-Q03	quartz vein	0.197 Au
8927PTR02-08	rusty shear zone	105 As
8927PTR02-12	rusty bleached graphitic qms	390 As
8927PTR02-13	rusty shear zone, quartz vein	620 As
8927PTR02-16	graphite and quartz, shear	160 As
8927PTR02-17	rusty shear zone	130 As
8927PTR03-03	graphitic schist	105 As
8927PTR04-01	graphitic schist	47.0 Ag,1040 Zn
8927PTR04-02	rusty qms	15.8 Ag
8927PTR04-03	rusty bleached sericitic qms	10.0 Ag
8927PTR04-05	rusty sheared qms	11.0 Ag, 110 As
8927PTR04-06	siliceous qms	20.4 Ag
8927PTR04-07	graphitic schist	10.8 Ag, 100 As
8927PTR04-08	rusty sheared qms	0.030Au,42.8 Ag

8927PTR04-09	quartz vein	26.2 Ag
8927PTR04-10	rusty sheared graphitic qms	29.4 Ag
89UELDTR01-SCH	qms	245 As
89UELDTR01-QFP	quartz feldspar porphyry	155 As
89UBON-QFP	quartz feldspar porphyry	980 As

N.B.: qms = quartz muscovite schist
All analysis values are in ppm except for Au which is in oz/t.

Only two samples, 8927PTR1-Q03 and 8927PTR04-08, returned significant assays for gold. Both came from the 27 Pup area, where high grade placer gold has been mined. The lack of more gold anomalies is probably due to the nugget effect.

All of the anomalous silver values also came from the 27 Pup area. The silver probably occurs in quartz veins associated with the gold mineralization, although the silver may represent a slightly different episode as gold and silver do not always occur together. One sample, 8927PTR04-01, had zinc with the silver mineralization.

Arsenic occurs in two different modes. It is associated with gold and silver at the 27 Pup area, but is more dispersed due to its mobile nature. It also occurs with quartz porphyry dykes trenched on Upper Eldorado and Upper Bonanza Creeks. This suggests that the quartz feldspar porphyry had coeval hydrothermal solutions.

ADAMS CREEK

GULCH

STAMPEDE GULCH

IRISH GULCH

HAWK TRENCHES

FRENCH GULCH

ELDORADO GULCH

GAUVIN GULCH

HOMESTAKE GULCH

89UBON–QFP

BONANZA CREEK

SEE FIGURE 6

SEE FIGURE 7

ORO GRANDE GULCH

GAY CREEK

NUGGET GULCH

89UELD TR01

89UELD TR02

CHIEF GULCH

NINEMILE CREEK

SCALE 1:50,000

0 0.5 1 2

KILOMETRES

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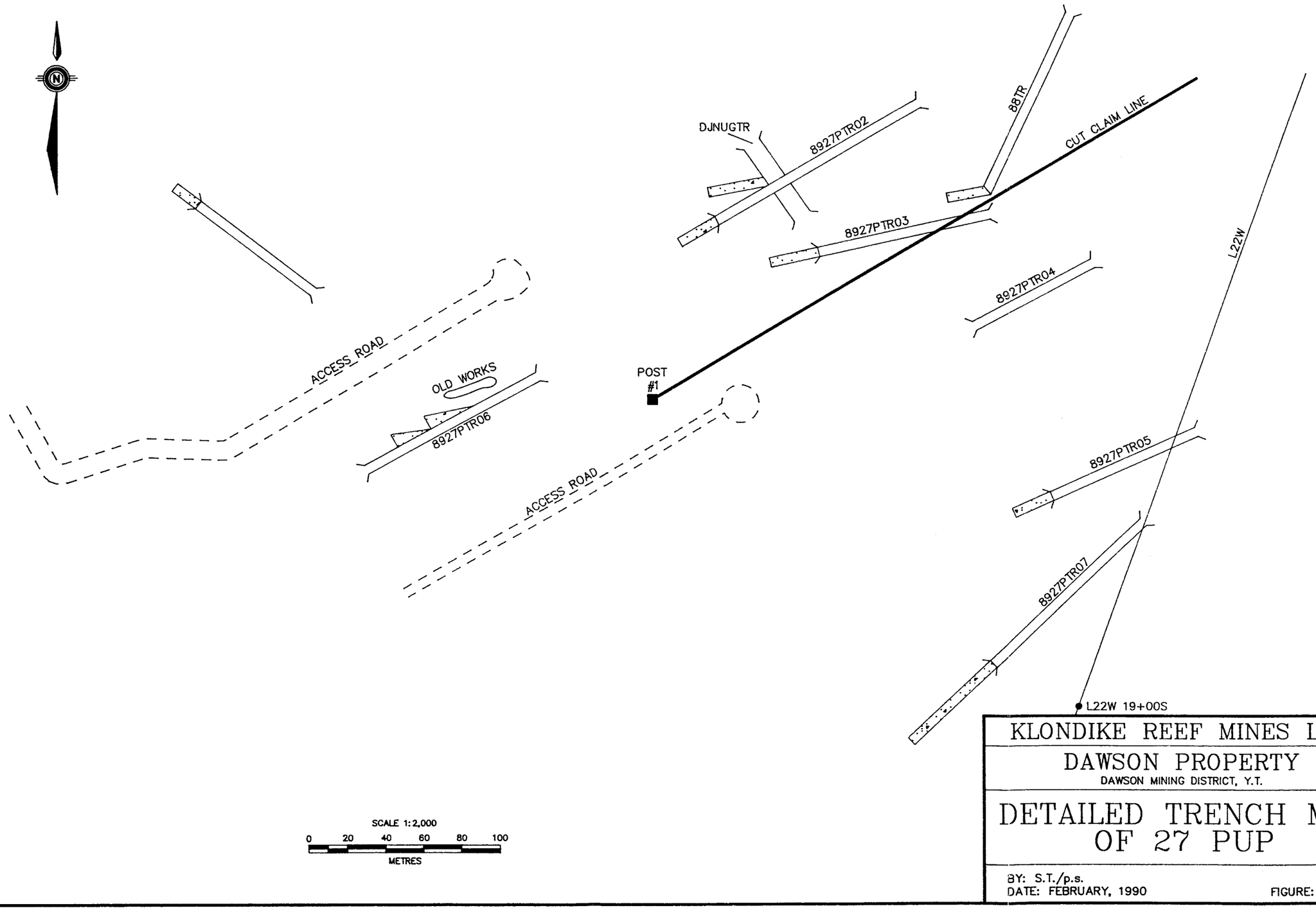
TRENCHING LOCATION MAP

BY: S.T./p.s.

DATE: MARCH, 1990

FIGURE: 5



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DAWSON MINING DISTRICT, Y.T.

DETAILED TRENCH MAP OF 27 PUP

BY: S.T./p.s.
DATE: FEBRUARY, 1990

FIGURE: 6

'86 Oro Grande trench

R23

DDH-OG2

L15W, 19+50S

890GTR01

890GTR03

890GTR02

R60

890GTR04

R21

890GTR05

R35

R22

L12N, 22+25S

LS25, 8+75W

Old road

LEGEND

- Road
- Trench
- Claim post
- Cut claim line
- R35 — Rotary-drill hole
- DDH4 — Diamond-drill hole
- L5W, 9S — Grid coordinate
- Gate

SCALE 1:2,000

0 20 40 60 80 100

METRES

KLONDIKE REEF MINES LTD.

DAWSON PROPERTY

DAWSON MINING DISTRICT, Y.T.

DETAILED TRENCH MAP OF ORO GRANDE AREA

BY: S.T./p.s.

DATE: FEBRUARY, 1990

FIGURE: 7

5. CONCLUSIONS

Since the mineral claims of Faith Mines Ltd. and Klondike Reef Mines Ltd. are situated over Bonanza and Eldorado Creeks, the most productive placer creeks in the Klondike, the property has a good potential for hosting the bedrock source for placer gold. Exploration programmes to date have been successful in delineating two possible sources for the gold: a low grade stratabound source bed, and high grade discordant quartz veins.

The 1989 field programme discovered a new area with high grade quartz veins near 27 Pup. Also, some work was done on testing Tertiary quartz feldspar porphyries.

Several significant targets, notably the Lone Star area, have been outlined by the exploration programmes. A large scale pattern drilling programme is now justified to determine the extent of economic mineralization.

Respectfully submitted;

Scott Tomlinson

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Walcott, P.E. and Associates Ltd.,1987; A Report on Magnetic and Induced Polarization Surveys, RON, SYNDICATE, RJ, DN, ND, DE claims and LOTS. (Unpublished Report for Arbor Resources Inc. and Kangeld Resources Ltd.)

7.0 STATEMENT OF PROFESSIONAL QUALIFICATIONS

SCOTT TOMLINSON, B.Sc.

ACADEMIC

1983
UNIVERSITY OF BRITISH COLUMBIA
B.Sc. IN GEOLOGY

PROFESSIONAL

JUNE 1986 - FEBRUARY 1990
HUGHES LANG EXPLORATIONS LTD.
PROJECT GEOLOGIST
Responsible for regional and detailed exploration programmes in Dawson, Yukon, and central and western British Columbia. Also, was involved in monitoring placer mining operations.

JUNE 1985 - MAY 1986
GEWARGIS GEOLOGICAL CONSULTING LTD.
PROJECT GEOLOGIST
Responsible for detailed exploration programmes in central and south-western British Columbia and southern California.

JUNE 1984 - NOVEMBER 1984, JUNE 1983 - NOVEMBER 1983
MARK MANAGEMENT
GEOLOGIST
Worked on regional and detailed exploration programmes near Atlin, British Columbia.

SUMMER EMPLOYMENT

JUNE 1982 - SEPTEMBER 1982
B.C. HYDRO
SENIOR ASSISTANT
Worked on an assessment project for a resevoir dam in western British Columbia.

JUNE 1981 - SEPTEMBER 1981
MARK MANAGEMENT LTD.
JUNIOR ASSISTANT
Worked on a regional and detailed exploration programme near Quesnel, British Columbia.

COST STATEMENT
FAITH MINES LTD.
KLONDIKE REEF MINES LTD.
1 May - 31 December 1989

***General Cost** (Breakdown for 205 mandays):

Supplies:	$ 2,753.47
Drafting:	249.83
Consultan Fees:	
Adder Exploration	124.99
Archean Eng.	7,475.00
Brian Hester	4,149.36
Fuel:	2,156.85
Food/Accommodation:	10,590.66
Field Tel Service:	1,187.83
Shipments:	2,224.54
Maintenance:	2,258.83
Rentals:	
Norcan 4wd	1,239.12
Appian 4wd	12,300.00
Ezekiel Equip	2,050.00
Chainsaw	90.00
Deakin c/spltr	75.00
Archibalds' Strg	200.00
ATC	160.00
Fixed Wing	124.50
Total General Cost	$49,409.98

FAITH MINES LTD.

Geophysical Survey Cost

Salaries, Wages and Benefits:	
Scott Tomlinson, lday	$ 160.00
Appian Proton Magnetometer: lday	30.00
General Cost: (1/205 X $49,409.98)	241.02
Total GeophysicaL Survey Cost:	$ 431.02

Faith Mines Ltd.'s Cost Continued:

Geological Mapping Cost

Salaries, Wages and Benefits:	
Scott Tomlinson, 13days @ $160	$ 2,080.00
General Cost: (13/205 X $49,409.98)	3,133.32
Total Geological Mapping Cost:	$ 5,213.32

Trenching Cost (Hard Rock)

Hawk Mining D8K, 66hrs @ $160	$10,560.00
Klondike Transport, Cartage	300.00
Kieren Dant, Samples Slucing	750.00
Total Trenching Cost (Hard Rock)	$11,610.00

Core Re-splitting/Analyses Cost

Salaries, Wages and Benefits:	
Scott Tomlinson, 24days	$ 3,840.00
Assays & Analyses - Chemex Labs:	
191 Rock for Au & 32-Element ICP @ $21.25	4,058.75
General Cost: (24/205 X $49,409.98)	5,784.58
Total GeophysicaL Survey Cost:	$13,683.33

FAITH MINES LTD. COST SUMMARY

Geophysical Survey:	$ 431.02
Geological Mapping:	5,213.32
Hard Rock Trenching:	11,610.00
Core Re-splitting & Analyses:	13,683.33
Total Cost:	$30,937.67

KLONDIKE REEF MINES LTD.

Geophysical Survey Cost

Salaries, Wages and Benefits:	
Scott Tomlinson, 7dayS @ $160	$ 1,120.00
P. Grunenberg, 3days @ $172.50	517.50
Appian Proton Magnetometer: 3days @ $30	90.00
General Cost: (10/205 X $49,409.98)	2,410.24
Total GeophysicaL Survey Cost:	$ 4,137.74

Geological Mapping Cost & Research Cost

Salaries, Wages and Benefits:	
Scott Tomlinson, 52days @ $160	$ 8,320.00
P. Grunenberg, 14days @ $172.50	2,415.00
General Cost: (66/205 X $49,409.98)	15,907.60
Total Geological Mapping Cost:	$26,642.60

Trenching Cost (Hard Rock)

Salaries, Wages and Benefits:	
S. Tomlinson, 63days @ $160	$10,080.00
Hawk Mining D8K, 26.5hrs @ $160	4,240.00
Gary Crawford D9h, 37.5hrs @ $200	7,500.00
Assays & Analyses - Chemex Labs:	
172 Rock for Au & 32-Element ICP @ $20.60	3,543.25
19 Soil for Au & 32-Element ICP @ $16.00	304.00
- Vancouver Petrographics:	
6 Rock for Thin Sections, G., K.-S., Report	456.50
General Cost: (63/205 X $49,409.98)	15,184.53
Total Trenching Cost (Hard Rock)	$41,308.28

Trenching Cost (Placer)

Salaries, Wages and Benefits:	
Scott Tomlinson, 5days @ $160	$ 800.00
Hawk Mining D8k, 29.5hrs @ $160	4,720.00
Gary Crawford D9h, 35hrs @ $200	7,000.00
General Cost: (5/205 X $49,409.98)	1,205.12
Total Trenching Cost (placer):	$13,725.12

Klondike Reef Mines Ltd.'s COST Continued

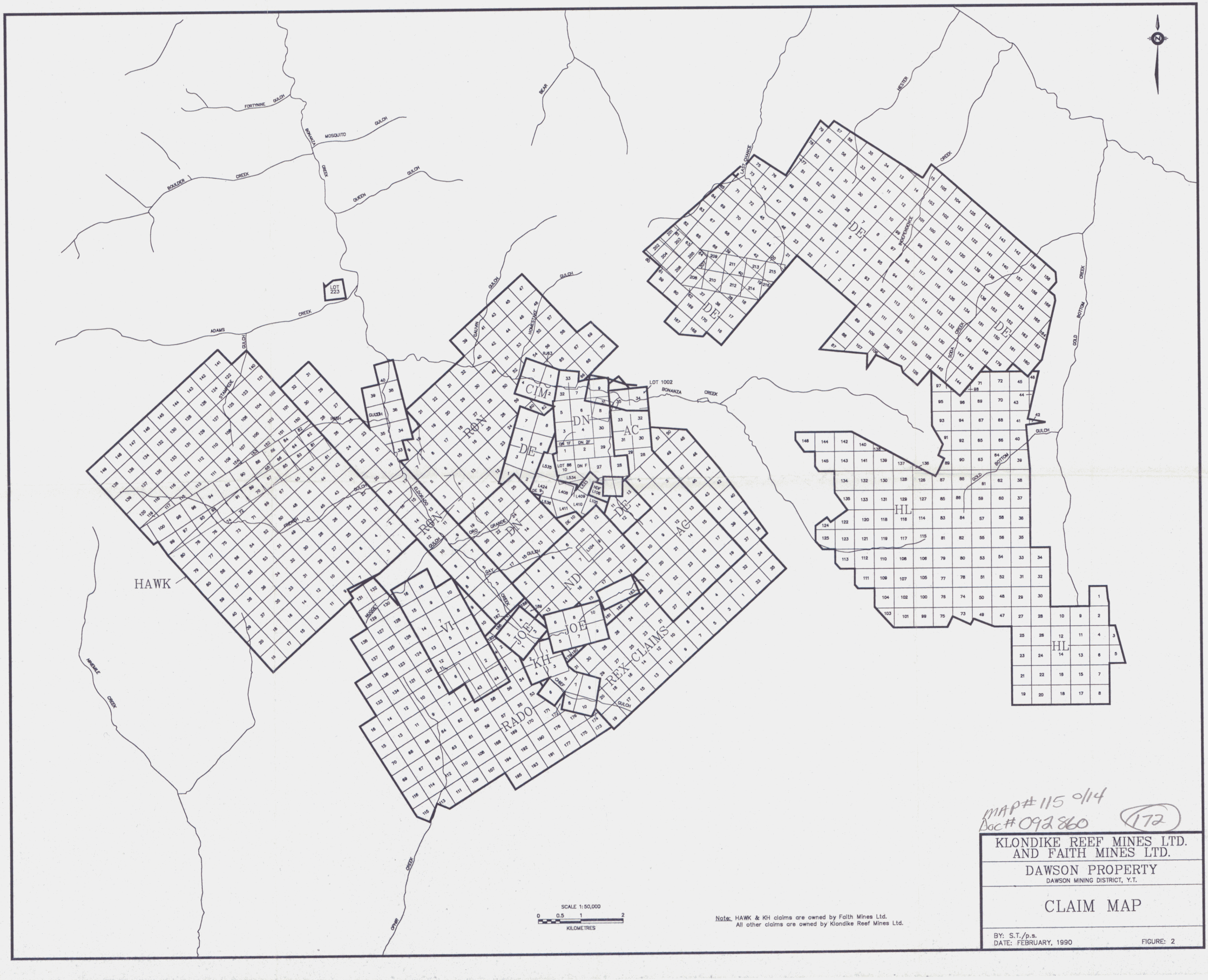
Staking Cost

Salaries, Wages and Benefits:	
S. Tomlinson, 8days @ $160	$ 1,280.00
Fees:	876.00
General Cost: (8/205 X $49,409.98)	1,928.19
Total Staking Cost:	$ 4,084.19

KLONDIKE REEF MINES COST SUMMARY

Geophysical Survey:	$ 4,137.74
Geological Mapping:	26,624.60
Placer Trenching:	13,725.12
Hard Rock Trenching:	41,308.28
Staking:	4,084.19
Total Cost:	$89,879.93

092860



Note: HAWK & KH claims are owned by Faith Mines Ltd.
All other claims are owned by Klondike Reef Mines Ltd.

MAP# 115 O/14
Doc# 092860
172

KLONDIKE REEF MINES LTD.
AND FAITH MINES LTD.

DAWSON PROPERTY
DAWSON MINING DISTRICT, Y.T.

CLAIM MAP

BY: S.T./p.s.
DATE: FEBRUARY, 1990

FIGURE: 2

APPENDIX

CERTIFICATES OF ANALYSES

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8927107

Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE A8927107

HUGHES LANG EXPLORATIONS LTD
PROJECT : DAWSON
P.O.# :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-OCT-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	19	Dry, sieve -80 mesh; soil, sed.
238	19	ICP: Aqua regia digestion

* 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	19	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
921	19	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	19	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	19	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	19	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	19	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	19	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	19	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	19	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	19	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	19	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	19	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	19	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	19	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	19	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	19	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	19	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	19	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	19	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	19	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	19	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	19	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	19	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	19	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	19	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	19	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	19	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	19	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	19	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	19	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	19	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	19	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	19	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 : HUGHES LANG EXPLORATIONS LTD.
1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2
Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE OF ANALYSIS A8927107

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
GH BL 0+00E	201 238	30	0.74	< 0.2	< 5	200	< 0.5	2	0.14	< 0.5	3	10	15	0.94	< 10	< 1	0.14	30	0.24	110
GH BL 0+25E	201 238	< 5	0.64	0.2	5	180	< 0.5	4	0.17	< 0.5	2	6	25	0.94	< 10	< 1	0.17	40	0.18	50
GH BL 0+50E	201 238	< 5	0.72	0.2	5	100	< 0.5	4	0.12	< 0.5	2	9	58	0.80	< 10	< 1	0.26	30	0.31	100
GH BL 0+75E	201 238	< 5	0.43	1.2	< 5	110	< 0.5	2	0.08	< 0.5	2	1	38	0.15	10	< 1	0.12	60	0.04	15
GH BL 1+00E	201 238	< 5	0.58	0.6	< 5	130	< 0.5	< 2	0.11	< 0.5	1	6	40	0.46	< 10	< 1	0.18	40	0.16	50
GH BL 1+25E	201 238	< 5	0.34	0.8	< 5	80	< 0.5	< 2	0.03	< 0.5	1	2	24	0.27	10	< 1	0.16	70	0.07	20
GH BL 1+50E	201 238	5	1.07	0.4	30	280	< 0.5	< 2	0.22	< 0.5	10	18	21	1.91	< 10	< 1	0.12	20	0.51	190
GH BL 1+75E	201 238	15	0.99	0.6	30	250	< 0.5	< 2	0.19	< 0.5	9	22	20	1.88	< 10	< 1	0.11	20	0.49	180
GH BL 2+00E	201 238	95	1.11	0.2	5	320	< 0.5	4	0.24	< 0.5	9	18	21	1.98	< 10	< 1	0.14	20	0.47	220
GH BL 2+25E	201 238	140	1.07	0.4	< 5	290	< 0.5	< 2	0.23	< 0.5	10	18	19	1.91	< 10	< 1	0.12	20	0.44	215
GH BL 2+50E	201 238	< 5	1.16	0.4	< 5	110	< 0.5	< 2	0.13	< 0.5	3	9	32	1.44	< 10	< 1	0.07	30	1.04	240
GH BL 2+75E	201 238	< 5	0.37	0.6	30	130	< 0.5	< 2	0.09	< 0.5	1	2	22	0.55	< 10	< 1	0.13	40	0.14	35
GH BL 3+00E	201 238	< 5	0.39	0.4	< 5	60	< 0.5	< 2	0.18	< 0.5	1	3	8	0.24	< 10	< 1	0.10	30	0.09	20
GH BL 3+25E	201 238	< 5	0.78	0.4	15	110	< 0.5	< 2	0.09	< 0.5	1	7	11	0.57	< 10	< 1	0.12	30	0.23	40
GH L100E 0+25N	201 238	< 5	0.61	0.4	20	80	< 0.5	< 2	0.14	< 0.5	2	7	28	0.58	< 10	< 1	0.15	30	0.21	80
GH L100E 0+25S	201 238	< 5	0.24	0.2	10	70	< 0.5	< 2	0.02	< 0.5	< 1	3	2	0.15	< 10	< 1	0.14	20	0.04	15
GH L250E 0+25N	201 238	15	1.16	0.2	10	280	< 0.5	< 2	0.22	< 0.5	9	22	19	2.09	< 10	< 1	0.12	20	0.49	215
GH L250E 0+50N	201 238	5	1.16	0.2	< 5	280	< 0.5	< 2	0.23	0.5	10	18	18	2.06	< 10	< 1	0.13	20	0.48	210
GH L250E 0+75N	201 238	< 5	1.28	0.6	< 5	200	< 0.5	< 2	0.16	0.5	4	11	31	1.73	10	< 1	0.10	70	0.81	175

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: HUGHES LANG EXPLORATIONS LTD.
1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2
Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

Page No. : 1-B
Tot. Pa: 1
Date : 16-OCT-89
Invoice # : I-8927107
P.O. # :

CERTIFICATE OF ANALYSIS A8927107

SAMPLE DESCRIPTION	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
GH BL 0+00E	201	238	1	< 0.01	5	300	20	< 5	2	12	0.03	< 10	< 10	13	< 10	48
GH BL 0+25E	201	238	< 1	< 0.01	3	490	30	< 5	1	12	0.01	< 10	< 10	8	< 10	74
GH BL 0+50E	201	238	< 1	< 0.01	4	350	36	< 5	2	10	0.04	< 10	< 10	4	< 10	68
GH BL 0+75E	201	238	< 1	< 0.01	< 1	160	60	< 5	1	7	< 0.01	< 10	< 10	2	< 10	34
GH BL 1+00E	201	238	< 1	< 0.01	5	240	54	< 5	1	11	0.02	< 10	< 10	4	< 10	56
GH BL 1+25E	201	238	< 1	< 0.01	< 1	100	54	< 5	1	5	< 0.01	< 10	< 10	2	< 10	48
GH BL 1+50E	201	238	1	< 0.01	11	490	30	< 5	3	18	0.04	< 10	< 10	25	< 10	78
GH BL 1+75E	201	238	< 1	< 0.01	13	440	34	< 5	3	15	0.03	< 10	< 10	24	< 10	76
GH BL 2+00E	201	238	3	< 0.01	14	490	42	< 5	3	19	0.04	< 10	< 10	28	< 10	78
GH BL 2+25E	201	238	1	< 0.01	11	470	40	< 5	3	17	0.04	< 10	< 10	26	< 10	72
GH BL 2+50E	201	238	1	< 0.01	7	340	26	< 5	2	12	0.05	< 10	< 10	6	< 10	68
GH BL 2+75E	201	238	2	< 0.01	< 1	340	36	< 5	1	25	0.03	< 10	< 10	2	< 10	24
GH BL 3+00E	201	238	< 1	< 0.01	< 1	350	50	< 5	1	23	0.05	< 10	< 10	2	< 10	18
GH BL 3+25E	201	238	< 1	< 0.01	< 1	170	20	< 5	2	10	0.01	< 10	< 10	4	< 10	46
GH L100E 0+25N	201	238	1	< 0.01	< 1	350	48	< 5	1	16	0.04	< 10	< 10	4	< 10	52
GH L100E 0+25S	201	238	< 1	< 0.01	< 1	50	18	< 5	< 1	4	< 0.01	< 10	< 10	1	< 10	14
GH L250E 0+25N	201	238	2	0.01	15	490	28	< 5	3	19	0.04	< 10	< 10	26	10	80
GH L250E 0+50N	201	238	3	0.01	8	530	18	< 5	3	20	0.04	< 10	< 10	26	10	78
GH L250E 0+75N	201	238	< 1	< 0.01	4	340	16	< 5	2	14	0.01	< 10	< 10	9	< 10	106

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8923001

Comments: ATTN: N R HUGHES CC: SCOTT TOMLINSON

CERTIFICATE A8923001

HUGHES LANG EXPLORATIONS LTD
PROJECT : MARK/DAWSON
P.O.# :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 14-AUG-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
236	7	RUSH Assay:Crush,split,pulv -150
238	7	ICP: Aqua regia digestion

* 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
916	7	Au oz/T: RUSH, 1 assay ton	FA-AAS	0.001	20.00
921	7	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	7	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	7	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	7	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	7	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	7	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	7	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	7	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	7	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	7	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	7	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	7	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	7	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	7	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	7	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	7	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	7	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	7	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	7	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	7	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	7	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	7	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	7	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	7	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	7	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	7	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	7	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	7	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	7	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	7	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	7	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	7	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : MARK/DAWSON
Comments: ATTN: N. R. HUGHES CC: SCOTT TOMLINSON

Date : 14-AUG-89
Invoice # : I-8923001
P.O. # :

CERTIFICATE OF ANALYSIS A8923001

SAMPLE DESCRIPTION	PREP CODE		Au oz/T RUSH	Al %	Ag ppm	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
DJ SHOW 1	236	238	0.021	0.17	37.2	< 5	70	< 0.5	< 2	0.09	< 0.5	1	68	13	1.03	< 10	< 1	0.06	< 10	0.03	70
DJ SHOW 2	236	238	1.393	1.06	40.6	20	550	0.5	2	0.16	0.5	6	40	25	3.98	< 10	< 1	0.30	30	0.28	210
DJ SHOW 3	236	238	0.133	1.00	5.0	10	440	< 0.5	< 2	0.21	< 0.5	3	16	10	1.88	< 10	< 1	0.40	10	0.30	170
DJ SHOW 4	236	238	0.503	0.92	17.4	5	380	0.5	< 2	0.18	0.5	4	24	9	2.44	< 10	< 1	0.37	20	0.23	145
ESPERANZA 1	236	238	0.039	0.35	3.6	< 5	420	< 0.5	< 2	0.01	< 0.5	5	65	8	1.71	< 10	< 1	0.14	< 10	0.01	55
ESPERANZA 2	236	238	0.003	1.45	6.2	95	70	1.0	4	0.23	0.5	52	38	125	11.00	< 10	< 1	0.25	30	0.38	250
QTZ CK DREDGE	236	238	0.005	0.35	8.0	40	20	1.0	24	0.01	0.5	7	34	166	>15.00	< 10	< 1	0.17	< 10	0.04	40

CERTIFICATION : B. Cargli

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : MARK/DAWSON
Comments: ATTN: N. R. HUGHES CC: SCOTT TOMLINSON

Date : 14-AUG-89
Invoice # : I-8923001
P.O. # :

CERTIFICATE OF ANALYSIS A8923001

SAMPLE DESCRIPTION	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
DJ SHOW 1	236 238	2	< 0.01	26	20	3050	25	< 1	2	< 0.01	< 10	< 10	1	< 10	10
DJ SHOW 2	236 238	9	< 0.01	18	310	1555	20	4	11	< 0.01	< 10	< 10	7	< 10	122
DJ SHOW 3	236 238	1	< 0.01	8	510	214	< 5	3	9	< 0.01	< 10	< 10	6	< 10	62
DJ SHOW 4	236 238	4	< 0.01	12	460	256	< 5	3	8	< 0.01	< 10	< 10	6	< 10	68
ESPERANZA 1	236 238	25	0.01	40	30	122	< 5	< 1	7	< 0.01	< 10	< 10	1	< 10	8
ESPERANZA 2	236 238	12	0.04	158	590	234	< 5	4	15	0.05	< 10	< 10	31	< 10	130
QTZ CK DREDGE	236 238	15	< 0.01	15	< 10	130	< 5	1	2	< 0.01	< 10	< 10	3	< 10	234

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8928503

Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE A8928503

HUGHES LANG EXPLORATIONS LTD.

Project: DAWSON
P.O. # : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-OCT-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	9	Assay: Crush,split,pulv -150
238	9	ICP: Aqua regia digestion

* 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
998	9	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
921	9	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	9	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	9	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	9	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	9	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	9	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	9	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	9	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	9	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	9	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	9	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	9	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	9	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	9	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	9	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	9	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	9	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	9	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	9	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	9	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	9	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	9	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	9	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	9	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	9	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	9	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	9	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	9	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	9	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	9	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	9	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	9	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

Invoice Date: 29-OCT-89
Invoice No. : I-8928503
P.O. Number : NONE

CERTIFICATE OF ANALYSIS A8928503

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Al %	Ag ppm	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
8927P-01	207	238	0.001	3.47	0.6	45	2900	0.5	< 2	0 .21	< 0.5	9	40	36	3.34	< 10	< 1	0.89	20	1.11	250
890G-01	207	238	< 0.001	0.63	1.8	30	360	< 0.5	< 2	0 .52	1.0	8	14	15	2.59	< 10	< 1	0.14	10	0.42	245
890G-02	207	238	< 0.001	1.23	0.2	1045	210	< 0.5	< 2	4 .44	5.0	10	42	45	2.80	< 10	< 1	0.27	< 10	0.95	495
890G-03	207	238	< 0.001	0.50	0.2	75	210	< 0.5	< 2	0 .15	< 0.5	4	1	7	1.92	< 10	< 1	0.30	20	0.10	300
890G-04	207	238	< 0.001	0.97	0.4	< 5	2310	< 0.5	< 2	0 .20	< 0.5	5	< 1	6	1.59	< 10	< 1	0.33	30	0.28	150
890G-05	207	238	0.002	0.23	0.8	< 5	160	< 0.5	< 2	0 .03	< 0.5	2	3	4	0.66	< 10	< 1	0.14	20	0.02	80
890RB-GRNSCH	207	238	< 0.001	0.59	< 0.2	260	80	< 0.5	< 2	3 .26	0.5	50	890	18	3.23	< 10	< 1	< 0.01	< 10	11.65	520
890RB-SILSCH	207	238	< 0.001	0.20	< 0.2	15	100	< 0.5	< 2	2 .75	1.5	15	23	52	3.57	< 10	< 1	0.06	< 10	1.48	505
890ROFINO-STIB	207	238	0.003	0.28	2.8	20	410	< 0.5	2	0 .05	< 0.5	1	20	5	1.05	< 10	< 1	0.37	20	0.14	55

CERTIFICATION : B. Caufield

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

Invoice Date: 29-OCT-89
Invoice No. : I-8928503
P.O. Number : NONE

CERTIFICATE OF ANALYSIS A8928503

SAMPLE DESCRIPTION	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
8927P-01	207	238	3	0.02	24	490	12	5	7	44	< 0.01	< 10	< 10	59	< 10	186
890G-01	207	238	15	0.07	24	980	84	< 5	2	43	< 0.01	< 10	< 10	17	< 10	130
890G-02	207	238	8	0.01	49	1110	6	15	3	253	< 0.01	< 10	< 10	32	< 10	230
890G-03	207	238	2	0.01	13	440	8	5	1	18	< 0.01	< 10	< 10	2	< 10	34
890G-04	207	238	< 1	< 0.01	3	280	4	< 5	2	51	< 0.01	< 10	< 10	3	< 10	60
890G-05	207	238	1	< 0.01	1	40	12	< 5	1	5	< 0.01	< 10	< 10	< 1	< 10	16
890RB-GRNSCH	207	238	< 1	< 0.01	999	< 10	< 2	10	4	420	< 0.01	< 10	< 10	16	< 10	54
890RB-SILSCH	207	238	29	0.02	58	920	8	5	4	185	< 0.01	< 10	< 10	19	< 10	154
890ROFINO-STIB	207	238	2840	< 0.01	18	40	16	10	1	11	< 0.01	< 10	< 10	< 1	< 10	8

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8920336

Comments: ATTN: ART TROUP CC: S EDWARDS

CERTIFICATE A8920336

MARK MANAGEMENT LIMITED
PROJECT : LONE STAR
P O.# : KLR/DEL

Samples submitted to our lab in Vancouver, BC.
This report was printed on 20-JUL-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
212	26	Geochem Crush,split,pulv -150
238	26	ICP: Aqua regia digestion

* 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
100	26	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	26	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	26	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	26	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	26	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	26	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	26	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	26	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	26	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	26	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	26	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	26	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	26	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	26	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	26	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	26	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	26	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	26	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	26	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	26	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	26	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	26	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	26	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	26	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	26	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	26	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	26	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	26	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	26	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	26	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	26	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	26	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	26	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
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V6C 2W2

Project : LONE STAR
Comments: ATTN: ART TROUP CC: S EDWARDS

Page No. 1-A
Tot. Pag
Date .20-JUL-89
Invoice # :I-8920336
P.O. # :KLR/DEL

CERTIFICATE OF ANALYSIS A8920336

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
39458	212 238	105	0.90	0.8	10	800	0.5	< 2	0.15	4.5	20	22	15	1.62	< 10	< 1	0.33	20	0.40	1610
39459	212 238	< 5	1.01	0.4	15	280	0.5	< 2	0.89	< 0.5	6	34	13	1.85	< 10	< 1	0.34	10	0.77	395
39461	212 238	< 5	1.84	0.6	20	170	1.0	2	4.28	< 0.5	11	44	39	3.52	10	< 1	0.16	< 10	1.78	545
39462	212 238	10	0.82	< 0.2	55	160	0.5	< 2	0.66	< 0.5	16	36	63	1.80	< 10	< 1	0.16	10	0.52	145
39463	212 238	5	1.45	< 0.2	50	50	0.5	2	3.22	< 0.5	10	51	22	2.76	< 10	< 1	0.06	< 10	1.47	570
39464	212 238	< 5	1.67	0.2	35	40	0.5	< 2	1.73	< 0.5	11	47	12	3.08	10	< 1	0.05	10	1.58	360
39465	212 238	< 5	3.85	< 0.2	60	90	1.5	< 2	4.49	< 0.5	38	121	21	6.27	10	2	0.17	< 10	3.46	1035
39466	212 238	5	0.89	< 0.2	< 5	120	< 0.5	< 2	0.75	< 0.5	5	29	11	1.93	< 10	< 1	0.11	< 10	1.03	295
39467	212 238	< 5	0.57	1.2	5	570	< 0.5	< 2	0.07	2.5	34	5	7	0.42	< 10	1	0.21	30	0.11	5170
39468	212 238	< 5	0.59	0.4	10	1180	< 0.5	< 2	0.07	< 0.5	12	13	7	0.85	< 10	< 1	0.16	30	0.34	715
39469	212 238	< 5	0.36	0.6	< 5	510	< 0.5	< 2	0.03	< 0.5	3	9	13	1.83	< 10	< 1	0.23	20	0.16	130
39470	212 238	< 5	0.34	0.4	10	340	0.5	< 2	0.03	< 0.5	2	7	5	1.33	< 10	< 1	0.14	30	0.05	75
39471	212 238	< 5	0.70	< 0.2	< 5	520	0.5	< 2	0.02	2.5	3	3	10	1.19	< 10	< 1	0.49	10	0.13	30
39472	212 238	< 5	4.16	0.4	< 5	200	2.0	< 2	0.16	0.5	25	58	81	6.75	10	< 1	0.35	60	2.26	390
39473	212 238	< 5	0.26	< 0.2	195	20	0.5	< 2	0.71	< 0.5	89	1260	8	3.81	< 10	< 1	< 0.01	< 10	14.30	845
39474	212 238	15	1.25	1.6	15	210	0.5	2	0.52	< 0.5	8	48	13	2.26	10	< 1	0.32	20	0.95	305
39475	212 238	15	0.91	0.4	10	350	0.5	< 2	0.08	< 0.5	11	15	7	0.84	< 10	< 1	0.34	40	0.31	525
39476	212 238	< 5	1.74	0.2	15	230	1.0	< 2	0.48	< 0.5	6	28	13	2.30	10	1	0.47	30	1.36	275
39477	212 238	1280	0.75	3.2	10	1660	0.5	< 2	0.04	1.5	20	39	18	2.65	< 10	< 1	0.24	20	0.53	785
39478	212 238	4100	0.70	1.8	20	250	0.5	< 2	0.04	< 0.5	12	40	15	1.93	< 10	< 1	0.19	20	0.54	500
39479	212 238	10	0.07	0.2	< 5	30	< 0.5	< 2	0.01	< 0.5	2	26	6	1.03	< 10	< 1	0.02	< 10	0.03	80
39480	212 238	1300	0.75	0.8	5	460	0.5	< 2	0.09	0.5	10	32	13	1.67	< 10	< 1	0.14	10	0.75	390
39481	212 238	720	0.03	0.4	< 5	20	< 0.5	< 2	< 0.01	< 0.5	2	26	7	1.15	< 10	< 1	0.01	< 10	0.01	80
39482	212 238	< 5	0.03	0.2	< 5	20	< 0.5	< 2	< 0.01	< 0.5	2	22	6	0.92	< 10	< 1	0.01	< 10	0.01	75
39483	212 238	< 5	0.06	0.8	20	10	1.0	< 2	0.95	< 0.5	9	36	30	2.29	< 10	< 1	0.01	< 10	0.44	325
39484	212 238	< 5	0.21	0.2	< 5	1290	0.5	2	0.01	< 0.5	2	10	4	0.66	< 10	< 1	0.20	10	0.03	30

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE . NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : LONE STAR
Comments: ATTN: ART TROUP CC: S. EDWARDS

Date : 20-JUL-89
Invoice # : I-8920336
P.O. # : KLR/DEL

CERTIFICATE OF ANALYSIS A8920336

SAMPLE DESCRIPTION	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
39458	212 238	< 1	0.02	26	340	88	< 5	2	21	0.01	< 10	< 10	9	< 10	194
39459	212 238	< 1	0.03	12	270	34	< 5	4	31	0.05	< 10	< 10	21	< 10	46
39461	212 238	< 1	0.03	24	690	16	5	8	208	< 0.01	< 10	< 10	34	< 10	118
39462	212 238	< 1	0.04	30	620	30	5	3	31	0.01	< 10	< 10	21	< 10	20
39463	212 238	1	0.03	30	550	46	5	6	98	< 0.01	< 10	< 10	35	< 10	92
39464	212 238	< 1	0.03	26	540	36	5	6	60	< 0.01	< 10	< 10	39	< 10	94
39465	212 238	< 1	0.41	47	1760	8	5	22	231	0.23	< 10	< 10	134	< 10	114
39466	212 238	< 1	0.01	10	240	20	5	3	21	0.01	< 10	< 10	15	< 10	34
39467	212 238	3	0.01	27	40	50	< 5	< 1	16	< 0.01	< 10	< 10	< 1	< 10	88
39468	212 238	< 1	0.01	10	60	72	< 5	< 1	11	< 0.01	< 10	< 10	< 1	< 10	36
39469	212 238	< 1	0.01	4	510	12	< 5	1	19	0.01	< 10	< 10	4	< 10	16
39470	212 238	< 1	0.04	4	40	20	< 5	2	10	< 0.01	< 10	< 10	4	< 10	32
39471	212 238	1	0.03	1	70	14	< 5	1	3	< 0.01	< 10	< 10	1	< 10	278
39472	212 238	5	0.06	60	740	10	< 5	4	40	< 0.01	< 10	< 10	34	< 10	186
39473	212 238	< 1	< 0.01	1260	< 10	< 2	< 5	3	39	< 0.01	10	< 10	11	< 10	40
39474	212 238	1	0.07	22	300	24	< 5	6	23	0.09	< 10	< 10	26	< 10	50
39475	212 238	1	0.02	9	90	10	< 5	1	8	< 0.01	< 10	< 10	2	< 10	38
39476	212 238	< 1	0.04	14	280	26	5	7	20	0.03	< 10	< 10	26	< 10	54
39477	212 238	4	0.02	28	70	62	< 5	3	77	< 0.01	< 10	< 10	7	< 10	122
39478	212 238	1	0.01	15	140	20	< 5	2	10	< 0.01	< 10	< 10	5	< 10	72
39479	212 238	< 1	< 0.01	9	10	10	< 5	< 1	1	< 0.01	< 10	< 10	1	< 10	8
39480	212 238	< 1	0.01	11	320	28	< 5	1	14	< 0.01	< 10	< 10	5	< 10	72
39481	212 238	1	< 0.01	9	< 10	6	< 5	< 1	< 1	< 0.01	< 10	< 10	< 1	< 10	8
39482	212 238	< 1	< 0.01	10	30	12	< 5	< 1	1	< 0.01	< 10	< 10	1	< 10	6
39483	212 238	1	< 0.01	26	20	38	< 5	1	27	< 0.01	< 10	< 10	2	< 10	12
39484	212 238	2	0.03	5	40	18	< 5	< 1	26	< 0.01	< 10	< 10	< 1	< 10	6

CERTIFICATION : B. Caplin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8920595

Comments: ATTN: ART TROUP CC: SPURLIN EDWARDS

CERTIFICATE A8920595

MARK MANAGEMENT LIMITED
PROJECT : KLR/DEL
P.O.# : KLR/DEL

Samples submitted to our lab in Vancouver, BC.
This report was printed on 25-JUL-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
212	27	Geochem Crush,split,pulv -150
238	27	ICP: Aqua regia digestion

* 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
100	27	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	27	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	27	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	27	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	27	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	27	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	27	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	27	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	27	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	27	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	27	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	27	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	27	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	27	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	27	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	27	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	27	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	27	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	27	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	27	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	27	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	27	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	27	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	27	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	27	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	27	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	27	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	27	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	27	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	27	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	27	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	27	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	27	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : KLR/DEI
Comments: ATTN: ART TROUP CC: SPURLIN EDWARDS

Date : 25-JUL-89
Invoice # : I-8920595
P.O. # : KLR/DEL

CERTIFICATE OF ANALYSIS A8920595

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
39485	212 238	10	0.15	0.4	< 5	50	< 0.5	4	1.61	2.5	12	254	48	3.30	< 10	< 1	0.03	< 10	0.79	1745
39486	212 238	< 5	1.65	0.4	15	360	< 0.5	2	0.42	1.0	5	248	40	3.90	< 10	< 1	0.24	10	1.23	420
39487	212 238	< 5	0.08	< 0.2	10	30	< 0.5	4	0.04	< 0.5	2	591	14	0.96	< 10	< 1	< 0.01	< 10	0.04	70
39488	212 238	240	0.04	1.2	< 5	10	< 0.5	4	0.03	0.5	2	439	14	0.90	< 10	< 1	< 0.01	< 10	0.01	55
39489	212 238	< 5	1.46	0.6	125	110	< 0.5	< 2	0.19	< 0.5	11	61	81	3.60	< 10	< 1	0.06	10	1.21	330
39490	212 238	< 5	0.04	0.2	45	20	< 0.5	< 2	0.02	< 0.5	2	499	12	0.85	< 10	< 1	< 0.01	< 10	0.02	140
39491	212 238	< 5	2.13	0.6	55	420	< 0.5	< 2	0.23	< 0.5	5	327	23	3.74	< 10	< 1	0.33	20	1.41	360
39492	212 238	35	0.17	0.4	25	110	< 0.5	< 2	0.01	< 0.5	2	415	8	0.80	< 10	< 1	0.06	< 10	0.06	45
39493	212 238	700	0.27	2.4	< 5	250	< 0.5	< 2	0.02	< 0.5	< 1	16	18	1.12	< 10	< 1	0.12	20	0.02	75
39494	212 238	10	1.51	0.2	30	180	< 0.5	< 2	7.13	1.5	14	311	37	2.43	< 10	< 1	0.09	< 10	1.53	690
39495	212 238	< 5	0.15	< 0.2	5	30	< 0.5	< 2	0.13	< 0.5	2	552	5	0.71	< 10	< 1	< 0.01	< 10	0.08	140
39496	212 238	< 5	0.07	0.4	5	160	< 0.5	2	0.09	< 0.5	2	705	20	0.88	< 10	< 1	< 0.01	< 10	0.02	255
39497	212 238	< 5	0.63	0.4	20	910	< 0.5	< 2	0.11	< 0.5	1	10	14	1.60	< 10	< 1	0.29	30	0.12	100
39498	212 238	< 5	0.89	0.4	< 5	470	< 0.5	< 2	0.07	< 0.5	1	10	11	1.57	< 10	< 1	0.42	20	0.11	90
39499	212 238	< 5	0.10	< 0.2	< 5	70	< 0.5	< 2	0.03	< 0.5	1	568	3	0.69	< 10	< 1	< 0.01	< 10	0.03	50
39500	212 238	100	0.38	0.6	25	120	< 0.5	< 2	0.21	< 0.5	37	154	45	3.84	< 10	< 1	0.09	< 10	0.08	100
39501	212 238	460	0.13	0.4	< 5	70	< 0.5	< 2	0.02	0.5	2	367	6	0.66	< 10	< 1	0.01	< 10	0.06	125
39502	212 238	30	0.01	< 0.2	< 5	10	< 0.5	< 2	< 0.01	< 0.5	1	414	4	0.47	< 10	< 1	< 0.01	< 10	< 0.01	40
39503	212 238	30	1.52	4.0	175	250	< 0.5	< 2	0.10	< 0.5	3	466	36	2.58	< 10	< 1	0.20	< 10	1.44	100
39504	212 238	< 5	0.06	< 0.2	< 5	30	< 0.5	< 2	< 0.01	< 0.5	1	401	8	0.49	< 10	< 1	< 0.01	< 10	0.02	30
39505	212 238	< 5	0.34	< 0.2	< 5	100	< 0.5	< 2	0.10	0.5	3	444	17	1.30	< 10	< 1	0.05	10	0.17	420
39506	212 238	< 5	0.37	0.4	< 5	280	< 0.5	< 2	0.03	< 0.5	3	142	7	1.30	< 10	< 1	0.27	20	0.09	30
39507	212 238	< 5	0.42	0.4	15	340	< 0.5	< 2	0.01	< 0.5	1	296	24	1.31	< 10	< 1	0.32	50	0.04	35
39508	212 238	150	1.06	0.6	5	220	< 0.5	< 2	0.22	0.5	14	53	37	2.90	< 10	< 1	0.13	20	1.42	450
39509	212 238	< 5	0.08	< 0.2	< 5	20	< 0.5	< 2	0.01	0.5	1	366	4	0.46	< 10	< 1	< 0.01	< 10	0.02	35
39510	212 238	< 5	0.26	< 0.2	< 5	740	< 0.5	< 2	1.00	< 0.5	1	359	2	0.65	< 10	< 1	0.21	10	0.02	110
39511	212 238	9000	0.72	2.2	< 5	560	< 0.5	< 2	0.03	1.0	23	515	15	0.87	< 10	< 1	0.27	10	0.14	1085

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : KLR/DEL
Comments: ATTN: ART TROUP CC: SPURLIN EDWARDS

Date : 25-JUL-89
Invoice # : I-8920595
P.O. # : KLR/DEL

CERTIFICATE OF ANALYSIS A8920595

SAMPLE DESCRIPTION	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
39485	212 238	3	0.01	19	400	36	5	1	47	< 0.01	< 10	< 10	10	40	126
39486	212 238	1	0.01	13	880	10	< 5	5	20	< 0.01	< 10	< 10	26	30	92
39487	212 238	2	< 0.01	10	60	26	< 5	< 1	2	< 0.01	10	< 10	3	< 10	14
39488	212 238	1	< 0.01	9	10	62	< 5	< 1	1	< 0.01	< 10	< 10	1	< 10	22
39489	212 238	< 1	0.01	25	700	10	< 5	5	8	< 0.01	< 10	< 10	33	20	86
39490	212 238	1	< 0.01	10	20	18	< 5	< 1	1	< 0.01	< 10	< 10	2	< 10	18
39491	212 238	1	0.03	31	800	6	< 5	6	13	0.01	< 10	< 10	53	10	110
39492	212 238	1	< 0.01	8	30	18	< 5	< 1	2	< 0.01	< 10	< 10	1	< 10	14
39493	212 238	< 1	< 0.01	15	40	28	< 5	< 1	3	< 0.01	< 10	< 10	1	< 10	20
39494	212 238	6	< 0.01	44	430	20	< 5	5	425	< 0.01	< 10	< 10	38	10	114
39495	212 238	2	< 0.01	10	40	8	< 5	< 1	7	< 0.01	< 10	< 10	8	< 10	12
39496	212 238	3	< 0.01	14	20	106	< 5	< 1	7	< 0.01	< 10	< 10	4	< 10	46
39497	212 238	1	< 0.01	8	180	20	< 5	2	13	< 0.01	< 10	< 10	1	< 10	42
39498	212 238	< 1	0.01	9	130	18	< 5	2	6	< 0.01	< 10	< 10	2	< 10	34
39499	212 238	1	0.01	6	40	28	5	< 1	2	< 0.01	< 10	< 10	1	< 10	14
39500	212 238	< 1	0.12	13	920	16	< 5	2	10	< 0.01	< 10	< 10	10	< 10	16
39501	212 238	1	< 0.01	5	40	4	< 5	< 1	1	< 0.01	< 10	< 10	1	< 10	8
39502	212 238	1	< 0.01	6	10	4	5	< 1	< 1	< 0.01	< 10	< 10	1	< 10	2
39503	212 238	5	< 0.01	30	390	30	< 5	2	15	< 0.01	< 10	< 10	27	< 10	100
39504	212 238	< 1	< 0.01	4	20	14	5	< 1	< 1	< 0.01	< 10	< 10	2	< 10	6
39505	212 238	2	0.04	9	160	16	< 5	2	4	0.01	< 10	< 10	9	< 10	48
39506	212 238	< 1	0.02	1	190	30	< 5	< 1	6	< 0.01	< 10	< 10	1	< 10	14
39507	212 238	4	0.05	4	110	34	< 5	1	8	< 0.01	< 10	< 10	4	< 10	22
39508	212 238	1	< 0.01	23	700	52	< 5	1	22	< 0.01	< 10	< 10	8	< 10	212
39509	212 238	< 1	< 0.01	4	10	4	< 5	< 1	1	< 0.01	< 10	< 10	1	< 10	8
39510	212 238	1	0.03	1	< 10	18	< 5	1	70	< 0.01	< 10	< 10	1	< 10	14
39511	212 238	1	0.02	19	70	18	< 5	1	5	< 0.01	< 10	< 10	6	< 10	48

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8920712

Comments: ATTN: ART TROUP CC: SPURLIN EDWARDS

CERTIFICATE A8920712

MARK MANAGEMENT LIMITED
PROJECT : KLR/DEL
P O # : KLR/DEL

Samples submitted to our lab in Vancouver, BC.
This report was printed on 1-AUG-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
212	12	Geochem Crush,split,pulv -150
238	12	ICP: Aqua regia digestion

* 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
100	12	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	12	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	12	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	12	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	12	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	12	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	12	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	12	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	12	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	12	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	12	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	12	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	12	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	12	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	12	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	12	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	12	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	12	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	12	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	12	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	12	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	12	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	12	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	12	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	12	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	12	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	12	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	12	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	12	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	12	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	12	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	12	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	12	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: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
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Project : KLR/DEL
Comments: ATTN: ART TROUP CC: SPURLIN EDWARDS

Page No. : 1-A
Tot. Pag
Date : 1-AUG-89
Invoice # : I-8920712
P.O. # : KLR/DEL

CERTIFICATE OF ANALYSIS A8920712

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
39512	212 238	5	0.52	0.6	10	470	< 0.5	< 2	1.40	< 0.5	4	2	152	0.64	< 10	1	0.47	40	0.04	190
39513	212 238	< 5	0.37	< 0.2	815	40	< 0.5	< 2	>15.00	1.5	40	611	28	3.26	< 10	< 1	< 0.01	< 10	8.92	1095
39514	212 238	< 5	0.44	< 0.2	15	5020	< 0.5	< 2	7.77	< 0.5	7	34	95	2.25	< 10	1	0.15	< 10	0.84	1335
39515	212 238	< 5	1.49	0.2	35	1370	< 0.5	2	2.19	0.5	9	40	96	2.16	< 10	< 1	0.29	10	1.20	370
39516	212 238	< 5	1.22	0.2	15	670	< 0.5	< 2	0.11	< 0.5	1	6	20	0.71	< 10	< 1	0.75	40	0.25	55
39517	212 238	1260	0.15	17.2	300	150	< 0.5	< 2	13.95	1.5	25	431	2600	2.34	< 10	< 1	< 0.01	< 10	7.11	550
39518	212 238	< 5	0.30	< 0.2	50	1000	< 0.5	< 2	9.37	1.0	17	25	88	4.91	< 10	< 1	0.11	< 10	4.02	1495
39519	212 238	< 5	0.45	0.8	35	420	< 0.5	2	3.10	1.0	7	34	76	3.15	< 10	2	0.16	< 10	1.56	680
39520	212 238	3420	0.05	1.0	10	70	< 0.5	< 2	1.08	< 0.5	1	18	22	1.07	< 10	< 1	< 0.01	< 10	0.13	275
39521	212 238	15	0.10	< 0.2	< 5	360	< 0.5	< 2	>15.00	3.5	8	8	24	6.83	< 10	2	< 0.01	< 10	0.24	2600
39522	212 238	< 5	1.00	0.6	30	270	1.0	< 2	0.44	1.0	4	7	18	1.83	< 10	1	0.37	40	0.17	950
39523	212 238	40	0.41	17.6	930	140	< 0.5	18	>15.00	6.5	49	472	10	4.80	< 10	< 1	< 0.01	< 10	9.42	1485

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE. NORTH VANCOUVER,
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PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
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Project : KLR/DEL
Comments: ATTN: ART TROUP CC: SPURLIN EDWARDS

Date 1-AUG-89
Invoice # : I-8920712
P.O. # : KLR/DEL

CERTIFICATE OF ANALYSIS A8920712

SAMPLE DESCRIPTION	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
39512	212 238	4	0.04	3	250	14	< 5	1	75	< 0.01	< 10	< 10	2	< 10	30
39513	212 238	< 1	< 0.01	609	30	2	< 5	4	614	< 0.01	< 10	< 10	6	< 50	48
39514	212 238	< 1	< 0.01	30	450	8	< 5	5	440	< 0.01	< 10	< 10	22	< 10	36
39515	212 238	< 1	0.02	40	460	14	< 5	3	124	< 0.01	< 10	< 10	21	< 10	164
39516	212 238	1	< 0.01	7	50	38	< 5	1	10	< 0.01	< 10	< 10	< 1	< 10	48
39517	212 238	< 1	< 0.01	751	20	6	< 5	3	334	< 0.01	< 10	< 10	11	10	40
39518	212 238	< 1	0.01	119	690	4	< 5	8	254	< 0.01	< 10	< 10	24	10	72
39519	212 238	3	0.01	54	1300	26	5	3	143	< 0.01	< 10	< 10	69	< 10	218
39520	212 238	1	< 0.01	18	190	14	5	< 1	78	< 0.01	< 10	< 10	1	< 10	40
39521	212 238	< 1	0.01	13	280	32	5	13	42	< 0.01	< 10	< 10	9	< 50	148
39522	212 238	< 1	0.01	12	290	42	< 5	2	16	< 0.01	< 10	< 10	2	< 10	104
39523	212 238	< 1	< 0.01	695	580	2920	5	8	844	< 0.01	< 10	< 10	10	< 50	86

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8931659

Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE A8931659

HUGHES LANG EXPLORATIONS LTD.
PROJECT : DAWSON
P.O.# :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-DEC-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	9	Assay: Crush,split,pulv -150
238	9	ICP: Aqua regia digestion

* 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
998	9	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
921	9	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	9	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	9	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	9	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	9	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	9	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	9	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	9	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	9	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	9	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	9	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	9	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	9	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	9	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	9	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	9	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	9	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	9	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	9	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	9	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	9	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	9	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	9	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	9	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	9	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	9	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	9	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	9	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	9	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	9	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	9	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	9	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

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P.O. # :

CERTIFICATE OF ANALYSIS A8931659

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Al %	Ag ppm	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
38351 G	207	238	< 0.001	0.62	0.2	25	210	< 0.5	< 2	0.05	< 0.5	1	11	6	2.16	< 10	< 1	0.12	10	0.50	120
38352 G	207	238	< 0.001	1.32	< 0.2	5	360	< 0.5	2	0.14	< 0.5	3	7	6	1.76	< 10	< 1	0.17	20	0.79	235
38353 G	207	238	< 0.001	1.40	< 0.2	20	310	< 0.5	< 2	0.28	< 0.5	5	7	10	3.58	< 10	< 1	0.11	10	1.00	460
38354 G	207	238	< 0.001	0.37	0.4	30	280	< 0.5	< 2	0.99	< 0.5	< 1	16	15	2.45	< 10	< 1	0.16	10	0.18	70
38355 G	207	238	< 0.001	0.21	0.4	< 5	120	< 0.5	< 2	0.17	< 0.5	< 1	8	3	0.99	< 10	< 1	0.09	20	0.04	70
38356 G	207	238	0.002	0.03	< 0.2	< 5	10	< 0.5	< 2	0.01	< 0.5	< 1	25	7	1.02	< 10	< 1	< 0.01	< 10	< 0.01	80
38357 G	207	238	< 0.001	0.05	0.2	35	30	< 0.5	< 2	0.03	< 0.5	< 1	19	10	2.54	< 10	< 1	< 0.01	< 10	< 0.01	95
38358 G	207	238	< 0.001	0.45	< 0.2	60	380	< 0.5	< 2	0.64	< 0.5	9	51	22	3.02	< 10	< 1	0.20	30	0.56	355
38359 G	207	238	< 0.001	0.21	< 0.2	< 5	40	< 0.5	< 2	0.12	< 0.5	2	33	16	1.43	< 10	< 1	0.04	< 10	0.10	115

CERTIFICATION : B. Caughlin

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CERTIFICATE OF ANALYSIS A8931659

SAMPLE DESCRIPTION	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
38351 G	207 238	1	0.05	9	210	12	< 5	1	25	< 0.01	< 10	< 10	4	< 10	32
38352 G	207 238	1	0.02	7	330	8	< 5	3	17	0.01	< 10	< 10	7	< 10	68
38353 G	207 238	3	0.02	5	520	14	< 5	4	21	0.01	< 10	< 10	9	< 10	102
38354 G	207 238	3	0.05	10	700	14	< 5	1	47	< 0.01	< 10	< 10	6	< 10	58
38355 G	207 238	1	0.01	2	60	42	< 5	1	20	< 0.01	< 10	< 10	< 1	< 10	24
38356 G	207 238	2	< 0.01	12	< 10	10	< 5	< 1	1	< 0.01	< 10	< 10	< 1	< 10	6
38357 G	207 238	2	< 0.01	9	80	< 2	< 5	< 1	5	< 0.01	< 10	< 10	13	< 10	10
38358 G	207 238	2	0.01	33	330	10	< 5	4	21	0.01	< 10	< 10	15	< 10	58
38359 G	207 238	2	< 0.01	17	380	26	< 5	< 1	17	< 0.01	< 10	< 10	3	< 10	34

CERTIFICATION : B. Caughlin

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To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8929423

Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE A8929423

HUGHES LANG EXPLORATIONS LTD.
PROJECT : DAWSON
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-NOV-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	7	Assay: Crush,split,pulv -150
238	7	ICP: Aqua regia digestion

* 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
998	7	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
921	7	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	7	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	7	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	7	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	7	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	7	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	7	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	7	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	7	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	7	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	7	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	7	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	7	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	7	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	7	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	7	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	7	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	7	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	7	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	7	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	7	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	7	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	7	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	7	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	7	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	7	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	7	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	7	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	7	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	7	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	7	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	7	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

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PHONE (604) 984-0221

To : HUGHES LANG EXPLORATIONS LTD.

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V6C 2W2

Project : DAWSON
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CERTIFICATE OF ANALYSIS A8929423

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Al %	Ag ppm	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
89UELDIR01-SCH	207 238	< 0.001	2.31	< 0.2	245	740	< 0.5	4	0.48	< 0.5	21	19	22	6.21	10	< 1	0.37	30	0.87	3490
89UELDIR01-QFP	207 238	< 0.001	1.05	< 0.2	155	2140	0.5	6	0.24	1.5	20	8	11	2.19	< 10	< 1	0.30	50	0.31	>10000
89UELDIR02-01	207 238	< 0.001	0.83	0.2	35	490	< 0.5	< 2	0.14	< 0.5	3	6	4	1.57	< 10	< 1	0.29	20	0.32	350
89UELDIR02-02	207 238	< 0.001	1.86	< 0.2	10	290	< 0.5	< 2	2.44	0.5	32	94	25	4.90	10	< 1	0.09	20	1.92	1600
89UELDIR02-03	207 238	< 0.001	1.49	0.4	55	1250	0.5	< 2	1.38	< 0.5	16	42	13	3.43	10	< 1	0.29	30	0.41	470
89UELDIR02-04	207 238	< 0.001	0.58	0.4	20	1260	< 0.5	< 2	1.53	< 0.5	1	3	2	1.15	< 10	< 1	0.22	30	0.50	305
89UELDIR02-05	207 238	< 0.001	0.87	0.2	35	840	< 0.5	< 2	1.31	< 0.5	4	6	5	2.26	< 10	< 1	0.30	20	0.61	385

CERTIFICATION : B. Caughlin

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Project : DAWSON
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CERTIFICATE OF ANALYSIS A8929423

SAMPLE DESCRIPTION	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
89UELDIR01-SCH	207	238	6	0.01	19	820	36	< 5	11	58	< 0.01	< 10	< 10	47	< 10	192
89UELDIR01-QFP	207	238	16	0.01	12	320	32	< 5	3	132	< 0.01	< 10	< 10	7	< 10	116
89UELDIR02-01	207	238	< 1	0.01	4	280	2	< 5	4	18	< 0.01	< 10	< 10	7	< 10	44
89UELDIR02-02	207	238	1	0.20	53	1870	2	< 5	11	134	0.20	< 10	< 10	74	< 10	100
89UELDIR02-03	207	238	< 1	0.02	23	1090	< 2	< 5	13	91	0.01	< 10	< 10	38	< 10	86
89UELDIR02-04	207	238	< 1	< 0.01	2	80	10	< 5	3	166	< 0.01	< 10	< 10	< 1	< 10	46
89UELDIR02-05	207	238	2	0.01	3	390	4	< 5	7	122	< 0.01	< 10	< 10	6	< 10	60

CERTIFICATION : B. Caughlin

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To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
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A8931044

Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE A8931044

HUGHES LANG EXPLORATIONS LTD.
PROJECT : DAWSON
P.O.# :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 4-DEC-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	12	Assay: Crush,split,pulv -150
238	12	ICP: Aqua regia digestion

* 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
998	12	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
921	12	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	12	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	12	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	12	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	12	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	12	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	12	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	12	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	12	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	12	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	12	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	12	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	12	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	12	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	12	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	12	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	12	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	12	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	12	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	12	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	12	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	12	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	12	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	12	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	12	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	12	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	12	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	12	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	12	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	12	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	12	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	12	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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CERTIFICATE OF ANALYSIS A8931044

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Al %	Ag ppm	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
89UBON-QFP	207	238	< 0.001	0.99	0.6	980	100	< 0.5	2	0.09	< 0.5	< 1	13	7	3.25	< 10	< 1	0.28	20	0.06	290
89OGIR04-01	207	238	< 0.001	1.09	0.8	5	250	< 0.5	2	0.13	1.0	4	10	67	1.71	< 10	< 1	0.43	30	0.67	255
89OGIR04-02	207	238	< 0.001	1.20	0.2	5	260	< 0.5	2	0.41	0.5	7	20	15	2.45	< 10	< 1	0.38	30	0.77	480
89OGIR04-03	207	238	< 0.001	0.85	< 0.2	< 5	110	< 0.5	2	1.78	< 0.5	3	24	9	2.17	< 10	< 1	0.11	< 10	0.63	590
89OGIR04-04	207	238	< 0.001	1.36	0.2	10	390	< 0.5	2	0.90	0.5	9	31	17	3.07	< 10	< 1	0.44	30	0.94	555
89OGIR04-05	207	238	< 0.001	1.14	< 0.2	5	460	< 0.5	4	0.95	< 0.5	9	27	16	2.75	< 10	< 1	0.43	30	0.93	555
89OGIR04-06	207	238	< 0.001	1.52	0.2	60	500	< 0.5	2	0.72	0.5	6	20	10	2.08	< 10	< 1	0.67	30	0.72	450
89OGIR04-07	207	238	< 0.001	1.26	0.6	5	750	< 0.5	< 2	0.15	< 0.5	3	11	4	1.15	< 10	< 1	0.74	40	0.40	205
89OGIR04-08	207	238	< 0.001	0.65	0.6	< 5	310	< 0.5	4	0.11	< 0.5	2	10	4	0.97	< 10	< 1	0.31	30	0.31	240
89OGIR04-09	207	238	< 0.001	0.68	0.4	5	280	< 0.5	2	0.16	< 0.5	3	13	6	1.29	< 10	< 1	0.32	30	0.35	270
89OGIR04-10	207	238	0.004	0.50	0.4	5	280	< 0.5	< 2	0.09	< 0.5	2	7	7	0.95	< 10	< 1	0.30	30	0.18	325
89OGIR04-11	207	238	< 0.001	0.96	0.2	5	290	< 0.5	2	0.16	0.5	4	17	9	1.42	< 10	< 1	0.35	30	0.39	510

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To : HUGHES LANG EXPLORATIONS LTD.
1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2
Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

Date : 4-DEC-89
Invoice # : I-8931044
P.O. # :

CERTIFICATE OF ANALYSIS A8931044

SAMPLE DESCRIPTION	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
89UBON-QFP	207	238	5	0.08	6	200	32	< 5	4	14	< 0.01	< 10	< 10	< 1	< 10	52
89OGIR04-01	207	238	2	0.01	5	390	76	< 5	2	15	0.01	< 10	< 10	4	< 10	138
89OGIR04-02	207	238	2	0.01	12	580	20	< 5	6	24	0.01	< 10	< 10	14	< 10	78
89OGIR04-03	207	238	2	0.01	15	240	36	< 5	2	96	< 0.01	< 10	< 10	8	< 10	52
89OGIR04-04	207	238	2	0.02	18	780	24	< 5	7	45	0.02	< 10	< 10	22	< 10	78
89OGIR04-05	207	238	1	0.02	17	740	14	< 5	6	61	0.04	< 10	< 10	17	< 10	68
89OGIR04-06	207	238	1	0.03	9	520	16	< 5	5	53	0.02	< 10	< 10	14	< 10	56
89OGIR04-07	207	238	< 1	0.04	4	260	18	< 5	3	12	0.01	< 10	< 10	8	< 10	36
89OGIR04-08	207	238	< 1	0.02	4	210	18	< 5	2	10	< 0.01	< 10	< 10	4	< 10	38
89OGIR04-09	207	238	1	0.01	7	350	18	< 5	2	13	0.02	< 10	< 10	5	< 10	40
89OGIR04-10	207	238	1	0.01	5	270	30	< 5	1	8	< 0.01	< 10	< 10	1	< 10	28
89OGIR04-11	207	238	1	0.01	9	310	24	< 5	1	15	< 0.01	< 10	< 10	4	< 10	50

CERTIFICATION : B. Caughlin

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To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8924266

Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE A8924266

HUGHES LANG EXPLORATIONS LTD
PROJECT : DAWSON
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 6-SEP-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	16	Assay: Crush,split,pulv -150
238	16	ICP: Aqua regia digestion

* 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
998	16	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
921	16	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	16	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	16	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	16	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	16	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	16	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	16	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	16	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	16	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	16	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	16	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	16	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	16	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	16	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	16	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	16	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	16	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	16	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	16	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	16	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	16	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	16	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	16	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	16	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	16	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	16	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	16	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	16	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	16	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	16	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	16	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	16	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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PHONE (604) 984-0221

To : HUGHES LANG EXPLORATIONS LTD.
1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2
Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

Date : 6-SEP-89
Invoice # : I-8924266
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8924266

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Al %	Ag ppm	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
8927PIR1-S01	207	238	0.003	0.54	0.8	20	630	< 0.5	< 2	0.09	1.0	2	6	14	1.08	< 10	14	0.55	30	0.05	160
8927PIR1-S02	207	238	0.002	0.50	0.4	5	1240	< 0.5	< 2	0.05	< 0.5	1	9	3	0.70	< 10	9	0.44	20	0.03	90
8927PIR1-S03	207	238	0.004	0.44	0.4	5	290	< 0.5	< 2	0.05	< 0.5	2	10	4	0.96	< 10	7	0.42	20	0.04	140
8927PIR1-S04	207	238	0.001	1.12	0.4	< 5	540	< 0.5	< 2	0.13	< 0.5	5	13	10	2.07	< 10	1	0.48	40	0.27	225
8927PIR1-S05	207	238	0.007	0.63	0.2	< 5	430	< 0.5	< 2	0.08	< 0.5	2	13	4	1.62	< 10	5	0.42	40	0.12	120
8927PIR1-Q01	207	238	0.004	0.09	1.0	< 5	90	< 0.5	< 2	0.01	< 0.5	2	15	2	1.17	< 10	8	0.08	< 10	< 0.01	100
8927PIR1-Q02	207	238	0.012	0.23	0.6	< 5	550	< 0.5	< 2	0.03	< 0.5	2	20	3	2.26	< 10	2	0.31	10	0.02	135
8927PIR1-Q03	207	238	0.197	0.10	3.8	< 5	100	< 0.5	< 2	0.01	< 0.5	2	16	3	1.19	< 10	< 1	0.11	< 10	0.01	85
8927PIR1-Q04	207	238	0.004	0.11	0.2	< 5	2590	< 0.5	< 2	0.01	< 0.5	2	14	2	1.06	< 10	< 1	0.12	< 10	0.01	75
8927PIR1-Q05	207	238	0.002	0.23	0.4	5	230	< 0.5	< 2	0.01	< 0.5	2	20	2	1.30	< 10	< 1	0.16	< 10	0.01	90
8927PIR1-Q06	207	238	< 0.001	0.23	< 0.2	< 5	390	< 0.5	< 2	0.02	< 0.5	2	16	3	1.29	< 10	< 1	0.13	< 10	0.02	95
8927PIR1-Q07	207	238	0.011	0.28	< 0.2	5	1980	< 0.5	< 2	0.03	< 0.5	2	17	3	1.49	< 10	< 1	0.18	< 10	0.07	100
8927PIR1-Q08	207	238	0.003	0.14	0.2	< 5	140	< 0.5	< 2	0.01	< 0.5	2	14	2	0.97	< 10	< 1	0.11	< 10	0.01	70
8927PIR1-Q09	207	238	0.005	0.23	0.4	< 5	130	< 0.5	< 2	0.02	< 0.5	2	17	2	1.29	< 10	< 1	0.13	< 10	0.02	90
8927PIR1-Q10	207	238	0.003	0.45	0.2	10	330	< 0.5	< 2	0.02	< 0.5	2	17	3	1.41	< 10	< 1	0.28	20	0.04	90
8927PIR1-Q11	207	238	< 0.001	0.31	0.2	< 5	240	< 0.5	< 2	0.02	< 0.5	1	14	3	1.28	< 10	< 1	0.20	10	0.04	85

CERTIFICATION : B. Caglioni

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

Page No. : 1-B
Tot. P. : 1
Date : 6-SEP-89
Invoice # : I-8924266
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8924266

SAMPLE DESCRIPTION	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
8927PIR1-S01	207	238	1	0.01	3	160	170	< 5	1	17	< 0.01	< 10	< 10	< 1	< 10	282
8927PIR1-S02	207	238	1	0.01	3	60	116	< 5	1	11	< 0.01	< 10	< 10	1	< 10	34
8927PIR1-S03	207	238	1	0.01	4	100	54	< 5	1	19	< 0.01	< 10	< 10	2	< 10	26
8927PIR1-S04	207	238	1	0.01	9	350	14	< 5	3	40	< 0.01	< 10	< 10	5	10	60
8927PIR1-S05	207	238	< 1	0.01	7	230	36	< 5	1	36	< 0.01	< 10	< 10	3	< 10	30
8927PIR1-Q01	207	238	2	0.01	3	20	96	< 5	< 1	2	< 0.01	< 10	< 10	1	< 10	14
8927PIR1-Q02	207	238	2	0.02	8	110	42	< 5	1	19	< 0.01	< 10	< 10	1	10	10
8927PIR1-Q03	207	238	1	0.01	5	40	84	< 5	< 1	5	< 0.01	< 10	< 10	1	< 10	8
8927PIR1-Q04	207	238	< 1	< 0.01	6	30	12	< 5	< 1	10	< 0.01	< 10	< 10	2	< 10	10
8927PIR1-Q05	207	238	1	0.02	9	30	16	< 5	< 1	4	< 0.01	< 10	< 10	1	< 10	8
8927PIR1-Q06	207	238	1	0.01	7	50	2	< 5	< 1	7	< 0.01	< 10	< 10	1	< 10	10
8927PIR1-Q07	207	238	2	0.01	7	100	10	< 5	1	17	< 0.01	< 10	< 10	2	< 10	16
8927PIR1-Q08	207	238	< 1	0.01	8	40	16	< 5	< 1	4	< 0.01	< 10	< 10	< 1	< 10	10
8927PIR1-Q09	207	238	1	0.01	6	50	10	< 5	< 1	4	< 0.01	< 10	< 10	1	< 10	10
8927PIR1-Q10	207	238	1	0.03	7	90	10	< 5	1	8	< 0.01	< 10	< 10	2	< 10	20
8927PIR1-Q11	207	238	1	0.01	5	80	8	< 5	1	7	< 0.01	< 10	< 10	1	< 10	14

CERTIFICATION : B. Caughlin

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To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

A8931045

Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE A8931045

HUGHES LANG EXPLORATIONS LTD.
PROJECT : DAWSON
P.O.# :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-DEC-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	54	Assay: Crush,split,pulv -150
238	54	ICP: Aqua regia digestion

• 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
998	54	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
921	54	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	54	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	54	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	54	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	54	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	54	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	54	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	54	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	54	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	54	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	54	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	54	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	54	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	54	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	54	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	54	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	54	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	54	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	54	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	54	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	54	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	54	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	54	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	54	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	54	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	54	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	54	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	54	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	54	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	54	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	54	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	54	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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To : HUGHES LANG EXPLORATIONS LTD.

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VANCOUVER, BC
V6C 2W2

Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

Date : 10-DEC-89
Invoice # : I-8931045
P.O. # :

CERTIFICATE OF ANALYSIS A8931045

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Al %	Ag ppm	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
8927PIR02-01	207	238	0.001	1.86	0.8	10	380	< 0.5	< 2	0.36	1.0	12	31	35	3.22	10	< 1	0.34	20	0.78	520
8927PIR02-02	207	238	< 0.001	0.42	0.4	5	140	< 0.5	< 2	0.10	< 0.5	2	14	5	1.11	< 10	< 1	0.11	10	0.15	150
8927PIR02-03	207	238	< 0.001	2.19	0.8	35	650	< 0.5	< 2	0.30	0.5	9	65	29	3.03	10	< 1	0.52	20	0.75	495
8927PIR02-04	207	238	< 0.001	2.19	0.8	60	690	< 0.5	< 2	0.34	0.5	12	74	30	3.15	10	< 1	0.43	20	0.89	575
8927PIR02-05	207	238	< 0.001	1.73	0.6	65	380	< 0.5	< 2	0.29	1.0	13	54	33	2.96	< 10	< 1	0.28	20	0.70	625
8927PIR02-06	207	238	< 0.001	1.84	0.6	20	350	< 0.5	< 2	0.34	1.0	12	56	28	3.13	10	< 1	0.27	20	0.79	605
8927PIR02-07	207	238	< 0.001	1.53	1.2	90	640	< 0.5	< 2	0.28	2.5	33	46	37	2.41	10	< 1	0.38	20	0.44	2380
8927PIR02-08	207	238	< 0.001	2.60	1.2	105	550	< 0.5	< 2	0.24	2.5	22	47	70	5.12	< 10	< 1	0.45	30	0.56	1100
8927PIR02-09	207	238	< 0.001	1.97	0.6	65	400	< 0.5	< 2	0.24	1.5	8	40	40	4.06	< 10	< 1	0.37	10	0.59	330
8927PIR02-10	207	238	< 0.001	0.57	0.2	70	120	< 0.5	< 2	0.08	0.5	2	25	24	2.36	< 10	< 1	0.12	< 10	0.15	160
8927PIR02-11	207	238	< 0.001	1.31	1.2	95	300	< 0.5	< 2	0.22	0.5	7	15	38	3.16	< 10	< 1	0.32	20	0.31	205
8927PIR02-12	207	238	< 0.001	1.05	6.6	390	800	< 0.5	< 2	0.11	1.0	4	12	59	7.28	< 10	< 1	0.62	10	0.18	115
8927PIR02-13	207	238	0.002	3.04	5.6	620	480	< 0.5	2	0.25	3.0	17	46	134	7.48	< 10	< 1	0.19	10	0.64	310
8927PIR02-14	207	238	0.001	1.45	1.2	85	490	< 0.5	< 2	0.33	1.0	7	41	33	2.90	< 10	< 1	0.38	20	0.50	420
8927PIR02-15	207	238	0.001	1.53	1.2	65	370	< 0.5	< 2	0.27	1.0	11	56	29	3.00	< 10	1	0.26	20	0.57	400
8927PIR02-16	207	238	< 0.001	2.00	0.8	160	500	0.5	< 2	0.34	1.5	16	60	59	3.25	< 10	< 1	0.34	30	0.94	625
8927PIR02-17	207	238	< 0.001	2.27	1.0	130	460	< 0.5	< 2	0.24	1.0	16	71	24	3.78	< 10	< 1	0.33	20	1.17	550
8927PIR02-18	207	238	0.001	2.84	0.6	55	460	< 0.5	< 2	0.29	1.0	14	49	36	4.08	< 10	< 1	0.42	20	1.67	600
8927PIR02-19	207	238	< 0.001	2.95	0.6	20	490	< 0.5	< 2	0.22	1.5	12	39	23	3.67	< 10	< 1	0.43	20	1.87	975
8927PIR02-20	207	238	0.002	2.49	0.6	45	2110	< 0.5	2	0.29	0.5	11	41	46	4.06	< 10	< 1	0.32	20	1.37	425
8927PIR02-21	207	238	0.001	0.58	0.2	< 5	100	< 0.5	< 2	0.08	< 0.5	4	31	14	2.04	< 10	< 1	0.07	< 10	0.49	350
8927PIR02-22	207	238	0.001	1.68	0.4	< 5	780	< 0.5	< 2	0.28	1.5	12	54	20	3.06	< 10	< 1	0.43	20	1.21	690
8927PIR02-23	207	238	0.001	0.64	0.2	< 5	410	< 0.5	< 2	0.05	< 0.5	1	10	3	0.78	< 10	< 1	0.37	40	0.17	115
8927PIR02-24	207	238	< 0.001	1.82	< 0.2	5	400	< 0.5	< 2	0.28	0.5	12	54	28	3.28	< 10	< 1	0.25	20	1.25	590
8927PIR02-25	207	238	0.001	0.62	0.6	< 5	420	< 0.5	< 2	0.04	< 0.5	1	11	3	0.90	< 10	2	0.26	30	0.19	130
8927PIR02-26	207	238	0.001	0.46	0.8	< 5	280	< 0.5	< 2	0.02	< 0.5	1	8	< 1	0.57	< 10	< 1	0.33	30	0.09	70
8927PIR03-01	207	238	0.001	0.12	0.4	5	40	< 0.5	< 2	< 0.01	< 0.5	1	28	12	1.28	< 10	< 1	0.04	< 10	0.01	90
8927PIR03-02	207	238	0.006	1.70	4.2	45	620	< 0.5	< 2	0.10	0.5	2	25	44	4.44	< 10	< 1	0.63	10	0.20	120
8927PIR03-03	207	238	< 0.001	2.58	1.0	105	530	< 0.5	< 2	0.37	2.0	15	117	57	3.93	10	< 1	0.32	20	1.68	520
8927PIR04-01	207	238	0.011	2.14	47.0	< 5	430	< 0.5	4	0.15	8.5	26	36	158	3.87	< 10	5	0.22	10	2.23	3080
8927PIR04-02	207	238	0.006	0.89	15.8	10	390	< 0.5	10	0.07	1.5	3	24	132	4.46	< 10	< 1	0.24	10	0.53	390
8927PIR04-03	207	238	0.003	0.64	10.0	35	530	< 0.5	2	0.05	< 0.5	1	28	41	3.33	< 10	< 1	0.40	10	0.23	125
8927PIR04-04	207	238	0.002	0.43	8.0	40	320	< 0.5	< 2	0.01	< 0.5	< 1	18	4	1.50	< 10	< 1	0.33	10	0.18	60
8927PIR04-05	207	238	0.001	0.60	11.0	110	450	< 0.5	2	0.05	< 0.5	< 1	25	24	5.58	< 10	< 1	0.35	10	0.29	115
8927PIR04-06	207	238	0.003	0.55	20.4	35	580	< 0.5	4	0.02	< 0.5	< 1	16	28	3.45	< 10	< 1	0.38	10	0.08	65
8927PIR04-07	207	238	0.011	2.18	10.8	100	660	< 0.5	2	0.20	1.5	7	47	256	6.44	10	< 1	0.34	20	0.56	175
8927PIR04-08	207	238	0.030	0.77	42.8	60	420	< 0.5	4	0.05	1.0	2	20	144	3.93	< 10	< 1	0.23	20	0.11	105
8927PIR04-09	207	238	0.003	0.82	26.2	50	460	< 0.5	< 2	0.11	0.5	4	31	130	2.41	< 10	< 1	0.11	< 10	0.12	120
8927PIR04-10	207	238	0.003	1.59	29.4	50	710	< 0.5	2	0.24	1.0	8	35	80	3.33	< 10	< 1	0.30	20	0.65	265
8927PIR04-11	207	238	0.003	0.13	6.4	5	80	< 0.5	< 2	0.02	< 0.5	1	26	13	1.14	< 10	< 1	0.03	< 10	0.07	115

CERTIFICATION : B.E. Smarter

Chemex Labs Ltd.
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To: HUGHES LANG EXPLORATIONS LTD.
1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2
Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

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Date : 10-DEC-89
Invoice # : I-8931045
P.O. # :

CERTIFICATE OF ANALYSIS A8931045

SAMPLE DESCRIPTION	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
8927PIR02-01	207 238	< 1	0.01	22	980	46	< 5	5	18	< 0.01	< 10	< 10	32	< 10	134
8927PIR02-02	207 238	1	0.01	9	160	8	< 5	1	5	< 0.01	< 10	< 10	7	< 10	18
8927PIR02-03	207 238	< 1	0.03	33	730	20	< 5	7	13	0.01	< 10	< 10	53	< 10	106
8927PIR02-04	207 238	< 1	0.03	34	730	12	< 5	7	14	0.02	< 10	< 10	59	< 10	112
8927PIR02-05	207 238	1	0.01	34	770	12	< 5	4	11	< 0.01	< 10	< 10	40	< 10	120
8927PIR02-06	207 238	1	0.01	28	760	12	< 5	5	15	0.02	< 10	< 10	46	< 10	114
8927PIR02-07	207 238	3	0.01	35	920	10	< 5	5	13	< 0.01	< 10	< 10	36	< 10	124
8927PIR02-08	207 238	4	0.01	34	990	14	< 5	6	19	< 0.01	< 10	< 10	41	< 10	270
8927PIR02-09	207 238	1	< 0.01	27	850	2	< 5	4	15	< 0.01	< 10	< 10	32	< 10	206
8927PIR02-10	207 238	4	< 0.01	16	260	12	< 5	1	5	< 0.01	< 10	< 10	6	< 10	78
8927PIR02-11	207 238	2	< 0.01	15	620	16	< 5	4	13	< 0.01	< 10	< 10	10	< 10	132
8927PIR02-12	207 238	6	0.07	16	1200	34	< 5	3	63	< 0.01	< 10	< 10	13	< 10	92
8927PIR02-13	207 238	28	0.01	54	1120	112	< 5	8	25	< 0.01	< 10	< 10	34	< 10	362
8927PIR02-14	207 238	2	< 0.01	21	990	10	< 5	3	18	< 0.01	< 10	< 10	34	< 10	114
8927PIR02-15	207 238	3	0.01	28	710	14	< 5	4	15	< 0.01	< 10	< 10	40	< 10	128
8927PIR02-16	207 238	6	< 0.01	70	800	30	< 5	3	20	< 0.01	< 10	< 10	49	< 10	178
8927PIR02-17	207 238	3	0.01	66	470	56	< 5	7	28	< 0.01	< 10	< 10	56	< 10	160
8927PIR02-18	207 238	1	0.02	28	640	102	< 5	8	16	0.01	< 10	< 10	68	< 10	200
8927PIR02-19	207 238	1	0.01	25	560	38	< 5	5	15	< 0.01	< 10	< 10	51	< 10	166
8927PIR02-20	207 238	3	< 0.01	32	980	38	< 5	5	29	< 0.01	< 10	< 10	51	< 10	182
8927PIR02-21	207 238	3	< 0.01	17	240	8	< 5	< 1	7	< 0.01	< 10	< 10	5	< 10	30
8927PIR02-22	207 238	1	0.01	28	800	6	< 5	6	26	0.01	< 10	< 10	25	< 10	114
8927PIR02-23	207 238	1	0.02	5	180	20	< 5	1	9	< 0.01	< 10	< 10	1	< 10	24
8927PIR02-24	207 238	2	0.01	29	640	18	< 5	6	26	< 0.01	< 10	< 10	38	< 10	102
8927PIR02-25	207 238	1	0.01	5	70	22	< 5	1	5	< 0.01	< 10	< 10	1	< 10	28
8927PIR02-26	207 238	1	0.01	4	60	14	< 5	1	3	< 0.01	< 10	< 10	1	< 10	14
8927PIR03-01	207 238	3	< 0.01	13	70	< 2	< 5	< 1	4	< 0.01	< 10	< 10	< 1	< 10	10
8927PIR03-02	207 238	4	0.01	15	860	48	< 5	4	85	0.01	< 10	< 10	16	< 10	62
8927PIR03-03	207 238	3	< 0.01	111	810	32	< 5	4	23	< 0.01	< 10	< 10	59	< 10	214
8927PIR04-01	207 238	4	< 0.01	27	710	438	20	4	32	0.02	< 10	< 10	15	< 10	1040
8927PIR04-02	207 238	3	0.01	12	780	276	< 5	3	23	0.03	< 10	< 10	12	< 10	376
8927PIR04-03	207 238	4	0.04	11	630	110	< 5	2	31	0.04	< 10	< 10	9	< 10	132
8927PIR04-04	207 238	2	0.01	6	260	40	5	1	25	0.02	< 10	< 10	6	< 10	8
8927PIR04-05	207 238	4	0.02	9	1510	44	10	2	92	0.03	< 10	< 10	10	< 10	100
8927PIR04-06	207 238	4	0.06	6	620	174	5	2	95	0.01	< 10	< 10	6	< 10	38
8927PIR04-07	207 238	13	0.01	27	1210	68	5	5	77	< 0.01	< 10	< 10	80	< 10	250
8927PIR04-08	207 238	5	0.01	11	700	264	15	2	72	< 0.01	< 10	< 10	13	< 10	168
8927PIR04-09	207 238	7	0.01	18	500	82	< 5	2	19	< 0.01	< 10	< 10	17	< 10	162
8927PIR04-10	207 238	3	0.01	20	840	28	< 5	3	37	< 0.01	< 10	< 10	30	< 10	264
8927PIR04-11	207 238	3	< 0.01	11	50	4	< 5	< 1	2	< 0.01	< 10	< 10	1	< 10	10

CERTIFICATION : _____

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To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

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Tot. P : 2
Date : 10-DEC-89
Invoice # : I-8931045
P.O. # :

CERTIFICATE OF ANALYSIS A8931045

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Al %	Ag ppm	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
8927PIR04-12	207	238	0.001	1.98	4.0	50	2580	< 0.5	< 2	0.27	1.5	10	25	38	3.92	< 10	< 1	0.15	20	1.66	350
89DJNVGIR-01	207	238	0.001	1.89	6.6	65	830	< 0.5	2	0.36	1.0	14	38	82	3.29	< 10	< 1	0.14	30	1.40	375
89DJNVGIR-02	207	238	0.005	0.08	0.2	< 5	190	< 0.5	< 2	0.01	< 0.5	1	24	15	0.99	< 10	< 1	0.01	< 10	0.04	105
89DJNVGIR-03	207	238	0.002	0.14	< 0.2	< 5	70	< 0.5	< 2	0.02	< 0.5	1	29	10	1.19	< 10	< 1	0.02	< 10	0.09	120
89DJNVGIR-04	207	238	0.001	2.64	0.6	40	420	< 0.5	< 2	0.26	2.5	19	40	59	4.12	< 10	< 1	0.36	20	1.85	860
89DJNVGIR-05	207	238	0.002	2.20	0.8	85	580	< 0.5	< 2	0.26	3.0	48	41	43	3.94	< 10	< 1	0.19	20	1.56	2860
89DJNVGIR-06	207	238	0.001	2.74	0.4	30	890	< 0.5	< 2	0.25	0.5	9	41	33	4.11	< 10	< 1	0.34	20	1.57	345
89DJSHOWIR-01	207	238	0.001	1.25	0.4	< 5	1410	< 0.5	< 2	0.23	0.5	4	8	12	2.03	< 10	< 1	0.40	20	0.35	160
89DJSHOWIR-02	207	238	0.004	1.58	0.8	< 5	450	< 0.5	< 2	0.25	0.5	4	9	35	2.76	< 10	< 1	0.47	20	0.65	265
89DJSHOWIR-03	207	238	0.003	1.52	1.0	10	400	< 0.5	2	0.20	0.5	7	13	13	2.82	< 10	< 1	0.45	20	0.58	305
89DJSHOWIR-04	207	238	< 0.001	1.39	0.4	25	300	< 0.5	< 2	0.19	1.0	5	19	18	3.09	< 10	< 1	0.31	20	0.75	535
89DJSHOWIR-05	207	238	0.001	1.01	0.4	< 5	370	< 0.5	< 2	0.07	< 0.5	1	10	2	1.04	< 10	< 1	0.54	20	0.14	95
89DJSHOWIR-06	207	238	0.001	0.17	< 0.2	< 5	160	< 0.5	< 2	< 0.01	< 0.5	1	27	6	1.10	< 10	< 1	0.09	< 10	0.01	140
89DJSHOWIR-07	207	238	< 0.001	0.44	0.4	10	280	< 0.5	< 2	0.02	< 0.5	6	16	4	1.18	< 10	< 1	0.23	20	0.04	440

CERTIFICATION : B Thwaites

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To: HUGHES LANG EXPLORATIONS LTD.

1900 - 999 W. HASTINGS ST.
VANCOUVER, BC
V6C 2W2

Project : DAWSON
Comments: ATTN: ART TROUP CC: SCOTT TOMLINSON

CERTIFICATE OF ANALYSIS A8931045

SAMPLE DESCRIPTION	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
8927PTR04-12	207	238	2	< 0.01	19	840	48	< 5	2	99	< 0.01	< 10	< 10	17	< 10	536
89DJNVGIR-01	207	238	13	< 0.01	51	1240	36	< 5	2	38	< 0.01	< 10	< 10	64	< 10	538
89DJNVGIR-02	207	238	2	< 0.01	12	20	4	< 5	< 1	7	< 0.01	< 10	< 10	1	< 10	26
89DJNVGIR-03	207	238	3	< 0.01	13	30	< 2	< 5	< 1	3	< 0.01	< 10	< 10	1	< 10	12
89DJNVGIR-04	207	238	2	0.01	41	750	82	< 5	4	16	< 0.01	< 10	< 10	44	< 10	522
89DJNVGIR-05	207	238	4	< 0.01	66	620	12	< 5	3	19	< 0.01	< 10	< 10	43	< 10	352
89DJNVGIR-06	207	238	2	0.01	24	770	22	< 5	5	26	< 0.01	< 10	< 10	52	< 10	156
89DJSHOWIR-01	207	238	1	< 0.01	4	510	8	< 5	3	19	< 0.01	< 10	< 10	6	< 10	74
89DJSHOWIR-02	207	238	2	0.01	5	510	2	< 5	8	21	< 0.01	< 10	< 10	6	< 10	104
89DJSHOWIR-03	207	238	2	0.02	6	400	10	< 5	4	15	< 0.01	< 10	< 10	8	< 10	62
89DJSHOWIR-04	207	238	2	< 0.01	10	290	26	< 5	3	17	< 0.01	< 10	< 10	6	< 10	102
89DJSHOWIR-05	207	238	1	< 0.01	3	140	20	< 5	1	8	< 0.01	< 10	< 10	2	< 10	24
89DJSHOWIR-06	207	238	3	< 0.01	13	10	8	< 5	< 1	3	< 0.01	< 10	< 10	< 1	< 10	8
89DJSHOWIR-07	207	238	2	< 0.01	8	60	52	< 5	1	3	< 0.01	< 10	< 10	< 1	< 10	38

CERTIFICATION : B Stewart