

LOG NO: <i>April 2/91 RD.</i>
ACTION:
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ASSESSMENT REPORT ON THE  
 HALCYON RESOURCES LTD./GALICO RESOURCES INC.  
 JOLLY T PROJECT

ISKUT-SULPHURETS AREA  
 SKEENA MINING DIVISION  
 BRITISH COLUMBIA

<b>SUB-RECORDER</b>	
RECEIVED	
MAR 27 1991	
M.R. #	\$
VANCOUVER, B.C.	

NTS 104B/9W  
 GEOLOGICAL BRANCH  
 LATITUDE 56°42' N  
 LONGITUDE 130°28' W  
 ASSESSMENT REPORT

21,171

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 J. Chapman, F.E.A.C.

January 20, 1991

**OREQUEST**



## SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Phase I exploration program has been completed by OreQuest Consultants Ltd. on the Jolly T Project, owned by Halcyon Resources Ltd. and Galico Resources Inc. (50% each). The property consists of the 20 unit Reg mineral claim, which is centred approximately 6.5 km northwest of the Eskay Creek property of Prime Resources Group Inc./Stikine Resources Ltd., within the Skeena Mining Division. This work was done under the management of Prime Explorations, a division of Prime Equities Inc., from September 1 to 15, 1990. The project is accessible by helicopter only and was reached from OreQuest's seasonal camp 15 km to the southeast. The claim lies 38 km east of the Bronson Creek airstrip, which is serviced on a regular basis from Smithers, 330 km to the southeast, and 39 km west of the Bell II staging area on the Stewart-Cassiar Highway.

The Jolly T Project lies on the northern flank of what is known as the Stewart Complex, an assemblage of volcanic and related sedimentary rocks of Upper Triassic to Middle Jurassic age which, as originally defined, extends from the Iskut River to Alice Arm (north-south) and from the Bowser River Group sedimentary basin to the Coast Plutonic Complex (east-west). This complex has been intruded during both Lower Jurassic and Tertiary times. The Lower Jurassic intrusive event is believed to be essentially coeval with the volcanics as well as being associated with extensive precious and base metal mineralization.

Although the Iskut River area was explored as early as the beginning of the century, mine developments such as Newhawk Gold Mines Ltd. (Sulphurets), Skyline Gold Corporation (Johnny Mountain), Prime Resources Group Inc./Cominco Ltd. (Snip) and, most recently, Prime Resources Group Inc./Stikine Resources Ltd. (Eskay Creek) has spurred extensive precious metal exploration during the last four years. Much of this activity has focused on the Upper Triassic to Lower Jurassic stratigraphy in search of vein and/or shear hosted deposits. Discovery of stratiform massive sulphide mineralization at Eskay Creek has broadened exploration horizons along with interest in large tonnage lower grade porphyry style copper-gold deposits.

The 1990 exploration program on the Jolly T Project consisted of reconnaissance geological mapping and prospecting in conjunction with the collection of 11 rock, 93 soil, and 6 heavy mineral concentrate stream sediment samples for geochemical analysis. The property was found to be underlain mainly by argillite/siltstone and greywacke/sandstone with minor lenses of conglomerate. All of these units are believed to belong to the Middle Jurassic Salmon River Formation. Small areas of blow-out quartz veining were located however no sulphides were observed to be associated with them.

Gold results from all samples are low with the maximum results from rock, soil and silt samples being 15 ppb, 25 ppb and 10 ppb respectively. Results from the ICP analysis returned spot soil anomalies in copper, lead, nickel and zinc with a weak clustering of anomalous zinc at the west end of soil line L1. Sample location

13+50E on L1 returned the highest zinc value (778 ppm) along with 151 ppm nickel and 129 ppm copper.

Based on the results obtained from the 1990 field program, both geological and geochemical, no further work is recommended on the Jolly T Project. If new developments occur at the Eskay Creek camp or adjoining properties which are relevant to the Jolly T property geology then a re-evaluation may be required.

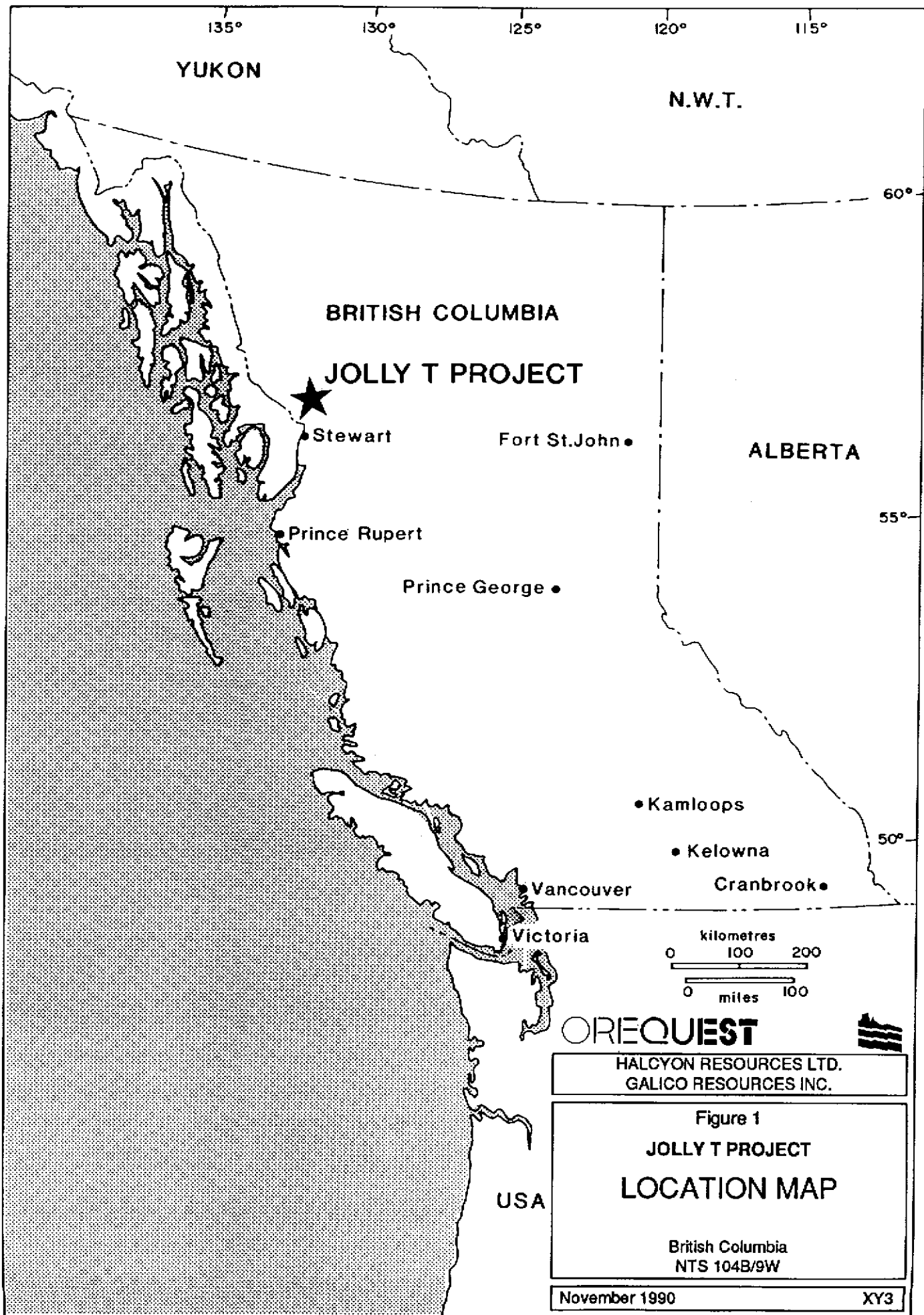


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J. Chapman, F.G.A.C.	
G. A. Malensek, Geologist.	
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## INTRODUCTION

This report summarizes the 1990 exploration program conducted on the Jolly T Project of Halcyon Resources Ltd. and Galico Resources Inc. The report is prepared by OreQuest Consultants Ltd. at the request of Prime Explorations, a division of Prime Equities Inc., on behalf of Halcyon and Galico.

No previous work has been recorded on the Jolly T Project area, therefore the 1990 program was designed to provide data on the underlying geology as well as first pass geochemical coverage. The work was carried out from September 1 to 15, 1990.

## LOCATION AND ACCESS

The Jolly T Project is located about 80 km north-northwest of Stewart, British Columbia, on NTS map 104B/9W.

Access to the property is by helicopter from the Bronson Creek airstrip 38 km to the west or the Bell II staging area on the Stewart-Cassiar highway, Highway 37, about 39 km to the east. The B.C. government and several interested mining companies in the area are presently funding the construction of a road into the Iskut area. Surveying for the road location and environmental testing began in 1990.

Frequent scheduled and charter flights from Smithers, 330 km southeast, to the Bronson Creek strip, service the exploration and



mining activity in the area. The Snippaker Creek airstrip, 25 km southwest of the property, was used during the 1990 season by single-engine fixed wing aircraft. Several old landing strips are located south of the property on the Unuk River but would require work to be serviceable. Exploration work was carried out via helicopter from OreQuest's seasonal camp 15 km southeast of the Jolly T Project.

#### **PHYSIOGRAPHY AND VEGETATION**

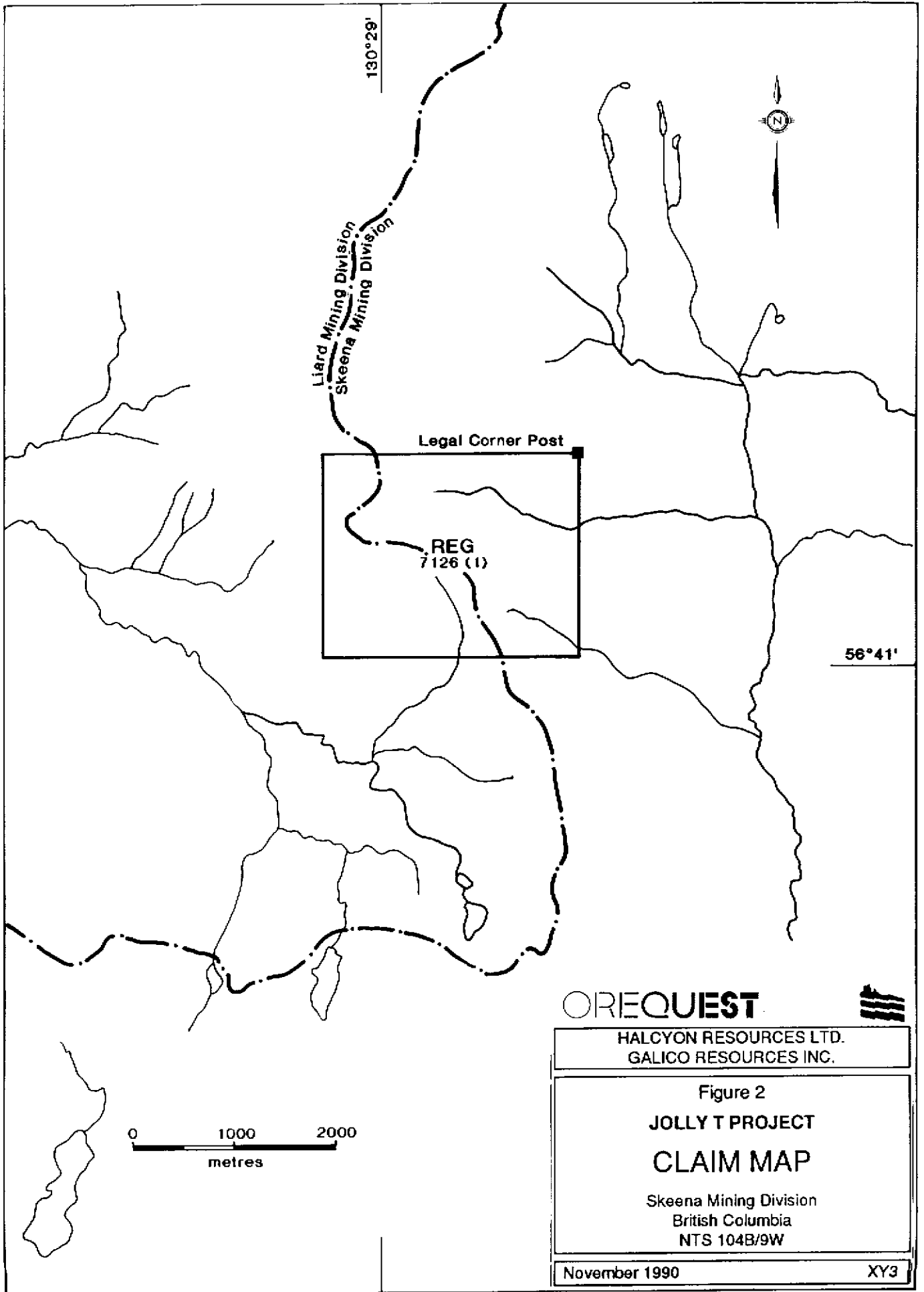
Elevations on the Jolly T Project range from 1000 m (3300ft) at the southeast end of the property up to 1600 m (5200ft) in the west. Slopes range from gentle to very steep.

The entire property is vegetated by small subalpine stunted shrubs and grasses. Locally small patches of stunted mountain hemlock and balsam were found which rarely exceed 3 m in height.

Climate in the area is severe, particularly at the higher elevations. Heavy snowfalls in winter and rain in the short summer working season are typical of the Iskut-Sulphurets area. Inclement weather conditions and reliance on helicopter transport make this a high cost area to explore for minerals.

#### **CLAIM STATUS**

The Jolly T property consists of one 20 unit mineral claim, the status of which is listed in Table I and shown on Figure 2.



Liard Mining Division  
Skeena Mining Division

130°29'



Legal Corner Post

REG  
7126 (1)

56°41'

0 1000 2000  
metres

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HALCYON RESOURCES LTD.  
GALICO RESOURCES INC.

Figure 2  
**JOLLY T PROJECT**  
**CLAIM MAP**  
Skeena Mining Division  
British Columbia  
NTS 104B/9W

November 1990

XY3

TABLE 1 - CLAIM STATUS

<u>Claim Name</u>	<u>No.of Units</u>	<u>Record No.</u>	<u>Date of Record</u>	<u>Expiry Date</u>
Reg	20	7126	Jan. 13, 1989	Jan. 13, 1995

The expiry date indicated above reflects assessment filed on the basis of work described in this report.

The property straddles the Skeena and Liard Mining Divisions boundary however the Legal Corner Post is within the Skeena Mining Division. The claim is located on map 104B/9W centred at approximately  $56^{\circ}42'N$  latitude and  $130^{\circ}28'W$  longitude.

During the course of the field work the Legal Corner Post (LCP) was physically located on the ground in the approximate area plotted on the claim map.

#### GENERAL AREA HISTORY

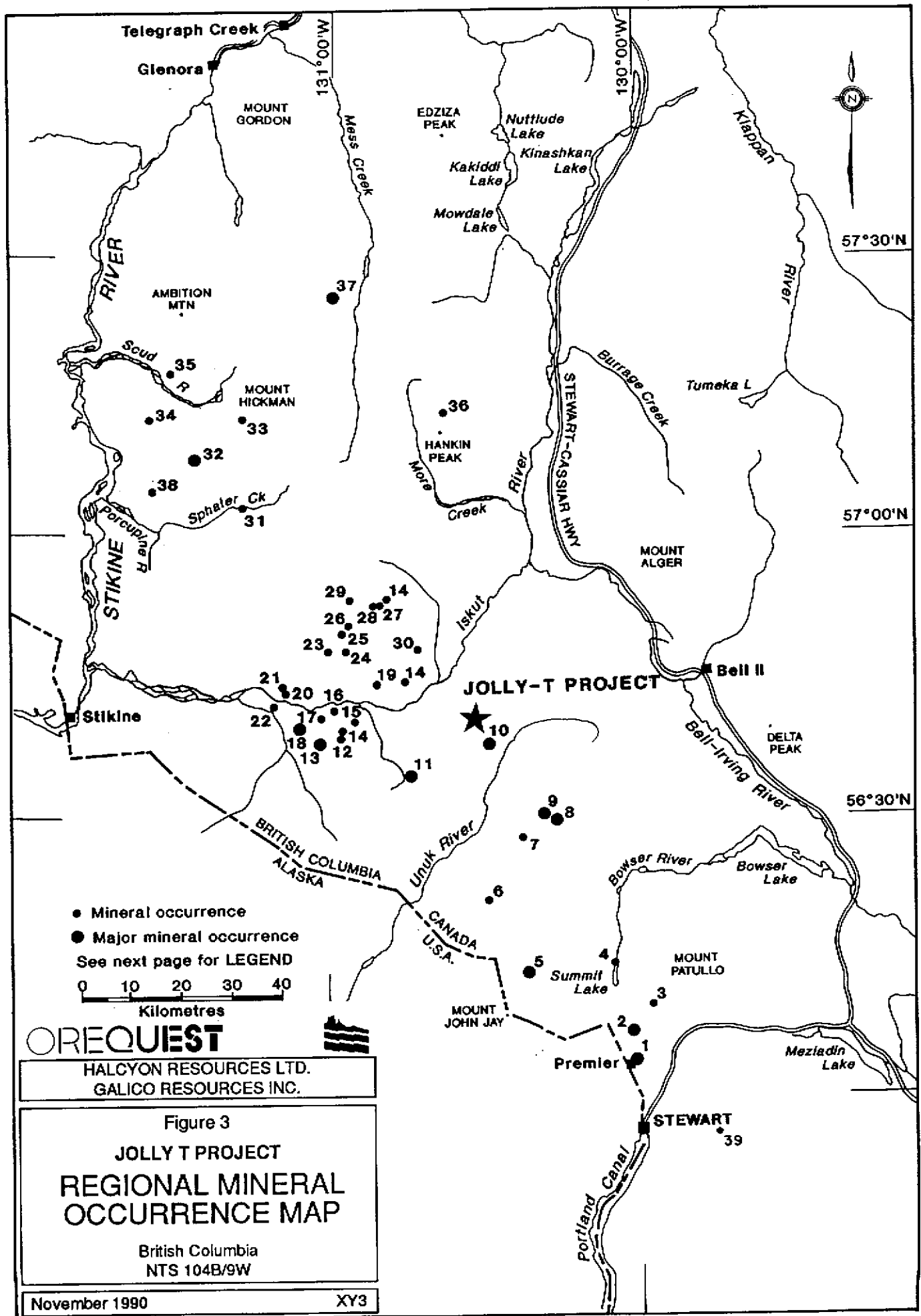
There is no record of any work having been carried out on the claims area itself, however much work has been done in the region both historically and recently. A brief summary of activity on surrounding properties is included here.

The Jolly T Project lies within an historically active mining and exploration area that extends some 225 kilometres from Stewart in the south to near Telegraph Creek in the north. Within this area, which

has been referred to as the Stikine Arch, mining activity goes back to the turn of the century. Due to the size of the region it historically has been referred to as more specific areas, ranging from the Stewart area to Sulphurets, Iskut River and Galore Creek, however all of these individual camps appear to be related to the Stikine Arch as a whole and are located in the area now referred to as the "Golden Triangle". Recent discoveries appear to be filling in areas between these known mineralized camps. It is probable that the entire area can be considered as one large mineralized province with attendant subareas. The location of several deposits and mineral occurrences appears in Figure 3, which also locates the Jolly T Project with respect to these sites. This list of mineral occurrences is by no means comprehensive but is included to illustrate distribution in the region.

The Stewart area has been mined actively since the early 1900s and is one of the most prolific mining districts in British Columbia (Grove, 1971). Most prominent among the numerous mining properties are the Silbak - Premier, Big Missouri and Granduc deposits, located 13 km north, 20 km north and 39 km northwest of Stewart respectively.

The Jolly T Project lies on the northern flank of the Iskut-Sulphurets area which has seen extensive exploration in the last three years. The Iskut area originally attracted interest at the turn of the century when prospectors, returning south from the Yukon goldfields searched for placer gold and staked bedrock gossans. In



LEGEND FOR FIGURE 3

PROPERTY OWNER AND/OR NAME	MINERAL RESERVES AND/OR ELEMENTS
1 Westmin Resources Ltd./Silbak Premier Mines	6,100,000 tons 0.064 oz/t Au, 2.39 oz/t Ag
2 Westmin Resources Ltd./Tournigan Mining Explorations Ltd.	1,860,000 tons 0.09 oz/t Au, 0.67 oz/ton Ag
3 Noranda (Todd Creek Project)	Au
4 Scottie Gold Mine	Au
5 Granduc	10,890,000 tons 1.79% Cu
6 Echo Bay Mines/Magna Ventures/Silver Princess Resources (Doc Project)	470,000 tons 0.27 oz/ton Au, 1.31 oz/ton Ag
7 Western Canadian Mining (Kerr Project)	Cu, Au
8 Exponential Holdings Ltd. (Gold Wedge)	337,768 tonnes 25.78 g/tonne Au, 36.65 g/tonne Ag
9 Newhawk/Lacana/Granduc (Sulphurets Project - West Zone)	550,000 tons 0.42 oz/t Au, 18.0 oz/ton Ag
10 Prime/Stikine Resources Ltd. (Eskay Creek Project)	1,992,000 tons 1.47 oz/t Au, 55.77 oz/t Ag
11 Consolidated Silver Standard Mines Ltd. (E & L Deposit)	3,200,000 tons 0.80% Ni, 0.60% Cu
12 Inel Resources Ltd.	Au, Ag, Cu, Pb, Zn
13 Skyline Gold Corporation (Johnny Mountain)	740,000 tons 0.52 oz/ton Au, 1.0 oz/ton Ag
14 Kestrel Resources Ltd.	Au, Ag, Cu, Pb, Zn
15 Hector Resources Inc. (Golden Spray Vein)	Au, Ag
16 Tungco Resources Corp.	Au, Ag, Cu, Pb, Zn
17 Winslow	Au, Ag, Cu, Pb, Zn
18 Cominco/Prime (Snip Deposit)	1,030,000 tons 0.88 oz/ton Au
19 Pezgold Resource Corp.	Ag, Au
20 Meridor Resources Ltd.	Au
21 Prime/American Ore Ltd./Golden Band	Au
22 Magenta Development Corp./Crest Resources Ltd.	Au, Ag, Cu, Pb
23 Ticker Tape Resources Ltd. (King Vein)	Au
24 Pezgold Resource Corp.	Au
25 Consolidated Sea-Gold Corp.	Au
26 Gulf International Minerals Ltd. (Northwest Zone)	Au, Ag, Cu
27 Kerr Claims	Ag, Cu, Au
28 Pezgold Resource Corp. (Cuba Zone)	Ag, Pb, Zn
29 Pezgold Resource Corp. (Ken Zone)	Cu, Au
30 Avondale Resources Inc. (Forrest Project)	Au, Ag, Cu
31 Pass Lake Resources Ltd. (Trek Project)	Cu, Au
32 Galore Creek	125,000,000 tons 1.06% Cu, 0.397 g/t Au, 7.94 g/t Ag
33 Continental Gold Corp.	Au, Ag, Cu
34 Bellex Resources Ltd./Sarabat Resources Ltd. (Jack Wilson Project)	Au, Cu
35 Pass Lake Resources Ltd. (JD Project)	Au, Cu
36 Lac Minerals (Hankin Peak Project)	Au
37 Schaft Creek	910,000,000 tons 0.30% Cu, 0.020% Mo, 0.113 g/t Au, 0.992 g/t Ag
38 Paydirt	200,000 tons 0.120 oz/ton Au
39 Bond International Gold (Red Mountain)	Au, Ag
40 Eurus/Thios (Rock & Roll)	Ag, Pb, Zn, Cu, Au
41 Westmin Resources Ltd. (SB)	308,000 of 0.505 oz/ton Au, 1.07 oz/ton Ag

the 1970s the porphyry copper boom drew exploration into the area. The new era of gold exploration began with the 1979 option of the Sulphurets claim block by Esso Minerals Canada and the 1980 acquisition of the Mount Johnny claims by Skyline Explorations Ltd. Skyline (now Skyline Gold Corporation) commissioned its mill in July, 1988, however production has been suspended temporarily. Cominco Ltd. and Prime Resource Group Inc. are presently preparing the adjacent Snip deposit for production.

Beyond these projects, and except for limited early placer gold recovery from some creeks, the area has had no mineral production history. Since 1979, more than 70 new mineral prospects have been identified, though ground acquisition was relatively slow until the fall of 1987 when the promising results of summer exploration programs became known and the provincial government announced the upcoming release of analytical results from a regional stream sediment survey. By April 1988, all open ground had been staked. More than 60 companies hold ground in the Iskut-Sulphurets belt but to date only small areas within this 40 x 80 km district have received extensive exploration.

In the Sulphurets Creek camp 23 km southeast of the Jolly T Project, near Brucejack Lake, the vein-hosted West Zone of Newhawk Gold Mines Ltd. / Granduc Mines Ltd. / Corona Corporation is reported to contain 550,000 tons grading 0.42 oz/ton gold and 18.0 oz/ton silver (The Northern Miner, Vol.76, #36; November 12, 1990) while the

Snowfield Gold Zone and Sulphurets Lake gold zone are bulk tonnage low grade deposits containing 7.7 million tons of 0.075 oz/ton gold and 20 million tons of 0.08 oz/ton gold respectively (GCNL Aug. 24, 1989). Exponential Holdings Ltd.'s Gold Wedge Property is reported to contain 337,768 tonnes of 25.78 grams/ton gold and 36.65 grams/tonne silver, partly in the Golden Rocket Vein in a similar setting (George Cross Newsletter, No. 227, November 23, 1990). Newhawk has recently completed a feasibility study which has indicated that current gold and silver prices preclude production at this time. Also located in this area is Placer Dome Inc.'s Kerr property, a porphyry copper-gold occurrence to which they have assigned a geological resource of 138,000,000 tons grading 0.61% copper and 0.01 oz/ton gold (Placer Dome Inc. Annual Report, 1989).

On the Snip property situated 38 km to the west of the Jolly T Project, the Twin Zone, a 3 to 25 ft thick discordant shear vein cuts a thickly bedded sequence of intensely carbonatized feldspathic wackes and siltstones. Twin Zone reserves in all categories have been reported as 1,030,000 tons of 0.88 oz/ton gold (Canadian Mines Handbook, 1990-91). This does not include additional reserves which may be developed outside the Twin Zone when mining begins. Twin Zone mineralization occurs in a banded shear zone comprising alternating bands of massive calcite, heavily disseminated to massive pyrite, crackle quartz and thin bands of biotite-chlorite.



At Skyline's nearby Johnny Mountain Mine, reserves in all categories are estimated at 740,000 tons of 0.52 oz/ton gold and 1.00 oz/ton silver with copper, zinc, and lead (Canadian Mines Handbook, 1990-91). Five major areas of gold-bearing sulphide are known. The most important Stonehouse Zone consists of sulphide-potassium feldspar-quartz vein and stockwork systems which have been only partly explored. The Johnny Mountain Mine has been temporarily shut down, but will be re-evaluated in light of gold price, definition of mineable reserves and road access.

The most recently discovered and perhaps the most exciting gold mineralization occurs on the Eskay Creek property of Prime Resources Group Inc./Stikine Resources Ltd., located 5 km south of the Jolly T Project. Numerous Calpine (now Prime)/Stikine news releases have announced results from over 600 drill holes completed from 1988 to the present, the most spectacular of which is hole CA-89-109 which produced 682.2 feet of 0.875 oz/ton gold. Published preliminary reserve calculations done in-house by Prime, based on drilling up to hole CA90-657, indicate probable geological reserves of 1,992,000 tons grading 1.47 oz/ton gold and 55.77 oz/ton silver (Vancouver Stockwatch, Sept 14, 1990). The company is currently driving an exploration drift to test the deposit at depth for continuity and to conduct metallurgical testing.

Several types and styles of mineralization are present at Eskay Creek, the most significant of which are: a) a gold and silver-rich

assemblage of disseminated to near-massive stibnite and realgar within a carbonaceous mudstone-rhyolite breccia "contact zone"; and, b) stratiform banded base metal sulphide layers with high gold and silver values in the contact zone and in a hanging wall andesite flow and sill complex with intercalated mudstone. The latter type accounts for most of the reserves. This stratigraphy appears to be at or near the contact between the Mt. Dilworth (felsic volcanics) and Salmon River (primarily sediments) Formations.

Immediately south of the Eskay deposit, American Fibre Corporation and Silver Butte Resources are in a joint venture on the SIB Project, on ground that hosts the same stratigraphy as the Eskay deposit. Results from recent drilling have returned results of 46.9 ft of 0.421 oz/ton gold and 30.91 oz/ton silver from hole 90-30 (Vancouver Stockwatch, October 10, 1990). Results from the final 1990, 26 hole program included values of 6.3 ft of 0.13 oz/ton gold and 19 ft of 0.13 oz/ton gold both in hole 90-38 (GCNL, November 5, 1990).

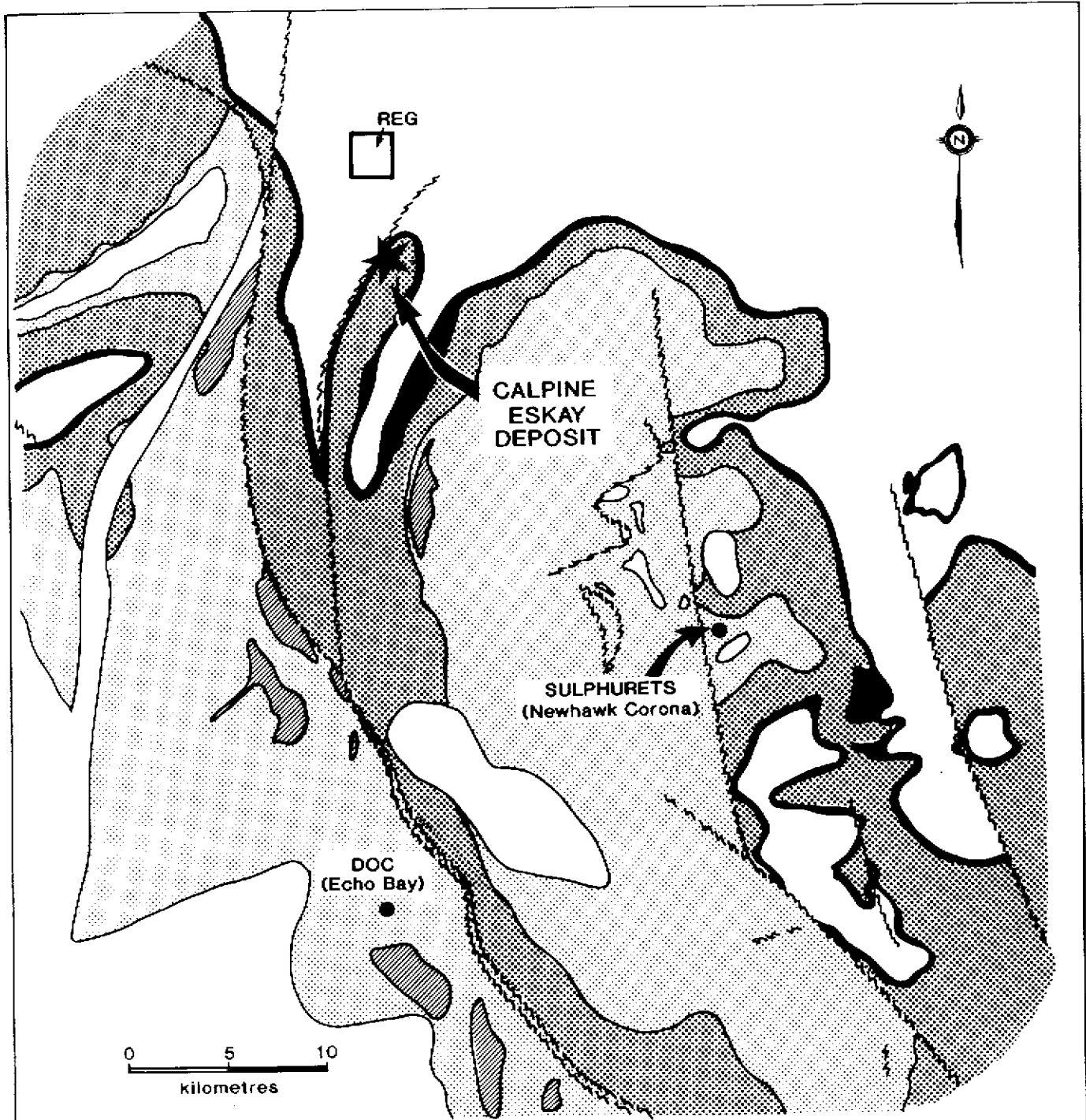
Elsewhere in the area Tymar Resources and Akiko-Lori Gold Resources have been drilling on the Lakewater Project which adjoins the Prime/Stikine project to the west. The companies are drilling a 320 m wide gap in the American Fibre/Silver Butte SIB claims within which the favourable Eskay deposit stratigraphy occurs. Results have been encouraging and include the following: 9.8 ft of 1.197 oz/ton gold, 1.7 oz/ton silver, 0.73% lead and 0.72% zinc (LW90-2), 3.3 ft

of 0.115 oz/ton gold (LW90-3) and 16.4 ft of 0.042 oz/ton gold (LW90-6), (Vancouver Stockwatch, October 30, 1990).

#### REGIONAL GEOLOGY

The area is underlain by the Stewart Complex (Grove 1971, 1986). The Stewart Complex encompasses Late Palaeozoic and Mesozoic rocks, confined by the Coast Plutonic Complex to the west, the Bowser Basin to the east, Alice Arm to the south and the Iskut River to the north. A simplified representation of the regional geology setting after Alldrick (1989) appears in Figure 4.

The oldest units in the Stewart Complex are Upper Triassic epiclastic volcanics, marbles, sandstones and siltstones. These, in turn, are overlain by sedimentary and volcanic rocks of the Upper Triassic to Middle Jurassic Hazelton Group. In the Unuk River area, the Hazelton Group had been subdivided (Alldrick et al, 1989) into the Lower Jurassic Unuk River, Betty Creek and Mt. Dilworth Formations, and the Middle Jurassic Salmon River Formation. Upper Jurassic sedimentary rocks were identified as the Nass Formation by Grove (Grove, 1986) and included by him in the Hazelton Group. More recently the Salmon River Formation has been included in the Spatzizi Group which underlies the Ashman Formation, basal unit of the Bowser Group. Both the Salmon River and Ashman Formations occur in the Middle Jurassic (Alldrick, 1989).



Regional Geology from Alldrick, 1989

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Figure 4

JOLLY T PROJECT

**REGIONAL GEOLOGY**

British Columbia  
NTS 104B/9W

PERIOD	FORMATION	GROUP
M. Jur	Ashman	BOWSER LAKE
190 Ma	Salmon River	SPATSIZI
	Mount Ditworth	
L. Jur	Betty Creek	HAZELTON
210 Ma	Unuk River	
U. Tri		STUHINI

6 Km

November 1990

XY3

The Unuk River Formation was deposited during Upper Triassic to Lower Jurassic times and marks a period of submergence (marine sedimentation) followed by emergence marked by volcanoclastic rocks. These rocks include arkosic and lithic wackes, siltstones, conglomerates, tuffites and green and grey intermediate to mafic volcanics.

Unuk River rocks outcrop along a broad north northwesterly trending belt from Alice Arm to the Iskut River.

Subsequent to deposition of the Unuk River Formation, a period of erosion and deformation occurred followed by deposition of the Betty Creek Formation volcanics and marine sediments. Betty Creek rocks are characterized by red and green volcanoclastic agglomerates with intercalated andesitic flows, pillow lavas, chert and minor carbonate lenses.

The Mt. Dilworth Formation was deposited during a period of explosive felsic volcanic activity. Massive to bedded airfall tuffs and welded ash flow tuff characterize this formation.

The Salmon River Formation comprises thin bedded, alternating siltstones and mudstones with minor limestone. The overlying Ashman Formation is characterized by turbidites and wackes with lesser intraformational conglomerates and marked by a basal chert pebble conglomerate.

## PROPERTY GEOLOGY

Reconnaissance mapping was conducted along the major ridges and creeks on the property to determine the underlying geology.

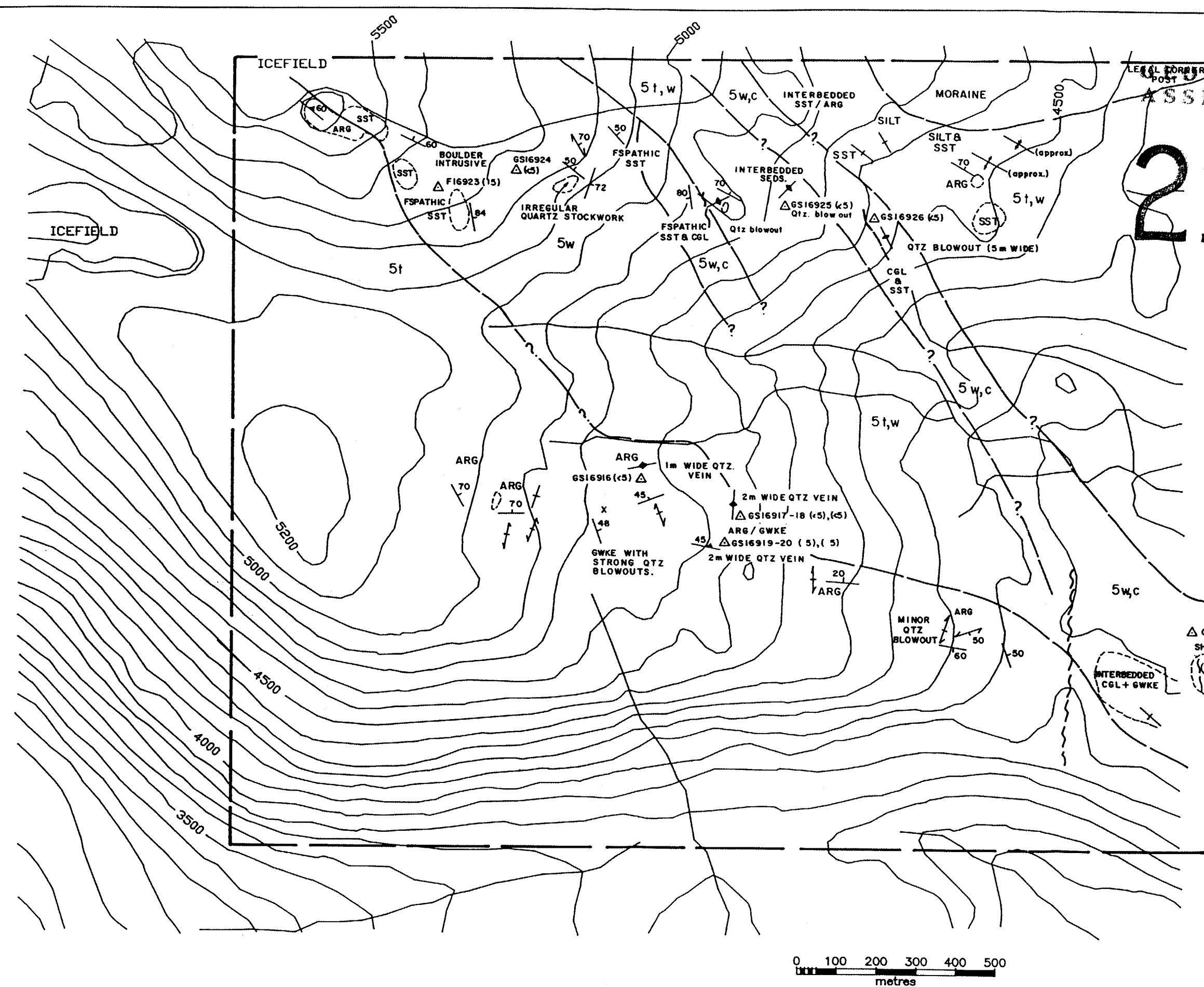
Accessible outcrop indicates that the property is underlain by a thick succession of Salmon River Formation sediments consisting of intercalated siltstone/argillite, sandstone/greywacke and chert pebble conglomerate (Figure 5).

The argillite is fine grained, black in colour and has a strongly developed cleavage which usually cuts bedding planes at an acute angle. The dominant trend is north-northwest with vertical dips. The sandstone/greywacke unit is medium grained dark grey to brown in colour and ranges from thinly to massively bedded. It also occurs with minor intercalated argillite lenses. The conglomerate is grey in colour, has well rounded matrix supported chert pebble clasts and is often interbedded with sandstone.

The above described sequence has been tightly folded into an asymmetric series of north-northwest trending folds. In general, the sedimentary contacts also trend northwesterly. No large scale fault structures which may host precious metal mineralization were noted.

Moderate sized quartz vein systems are present, especially around faults and in the hinges of tight folds. They range from 0.5 to 5.0 wide and up to 200 m in length. No widespread alteration zones were

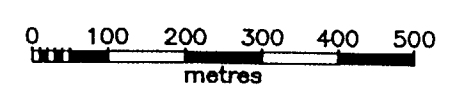
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- LEGEND:
- SPATZIZI GROUP (?)
  - MIDDLE JURASSIC
  - SALMON RIVER FORMATION
  - 5 SILTSTONE SEQUENCE  
DARK GREY, WELL BEDDED SILTSTONE, WITH  
MINOR SANDSTONE AND CONGLOMERATE
  - 5c CHERT PEBBLE CONGLOMERATE & ARENITE
  - 5t RHYTHMICALLY BEDDED SILTSTONE AND  
SHALE (TURBIDITE)
  - 5w THINLY BEDDED WACKE (+ MASSIVE SANDSTONE)

- SYMBOLS
- OUTCROP
  - x SMALL OUTCROP
  - + BEDDING (VERTICAL, INCLINED)
  - / / CLEAVAGE, FOLIATION (VERTICAL, INCLINED)
  - - VEIN (VERTICAL, INCLINED)
  - - JOINT, FRACTURE (VERTICAL, INCLINED)
  - - FAULT, (INFERRED)
  - - PRESUMED GEOLOGICAL CONTACT
  - △ GSI6921 (45) ROCK SAMPLE LOCATION  
AND GOLD ASSAY (ppb)

- ARG ARGILLITE
- SILT SILT
- SST SILTSTONE
- GWKE SANDSTONE
- CGL GREYWACKE
- QTZ CONGLOMERATE
- cpy QUARTZ
- py CHALCOPYRITE
- lim PYRITE
- FSPATHIC LIMONITE
- FELDSPATHIC FELDSPATHIC



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Figure 5  
JOLLY T PROJECT  
GEOLOGY & ROCK  
SAMPLE LOCATION MAP

British Columbia  
NTS 104B/9W

November 1990 RWR

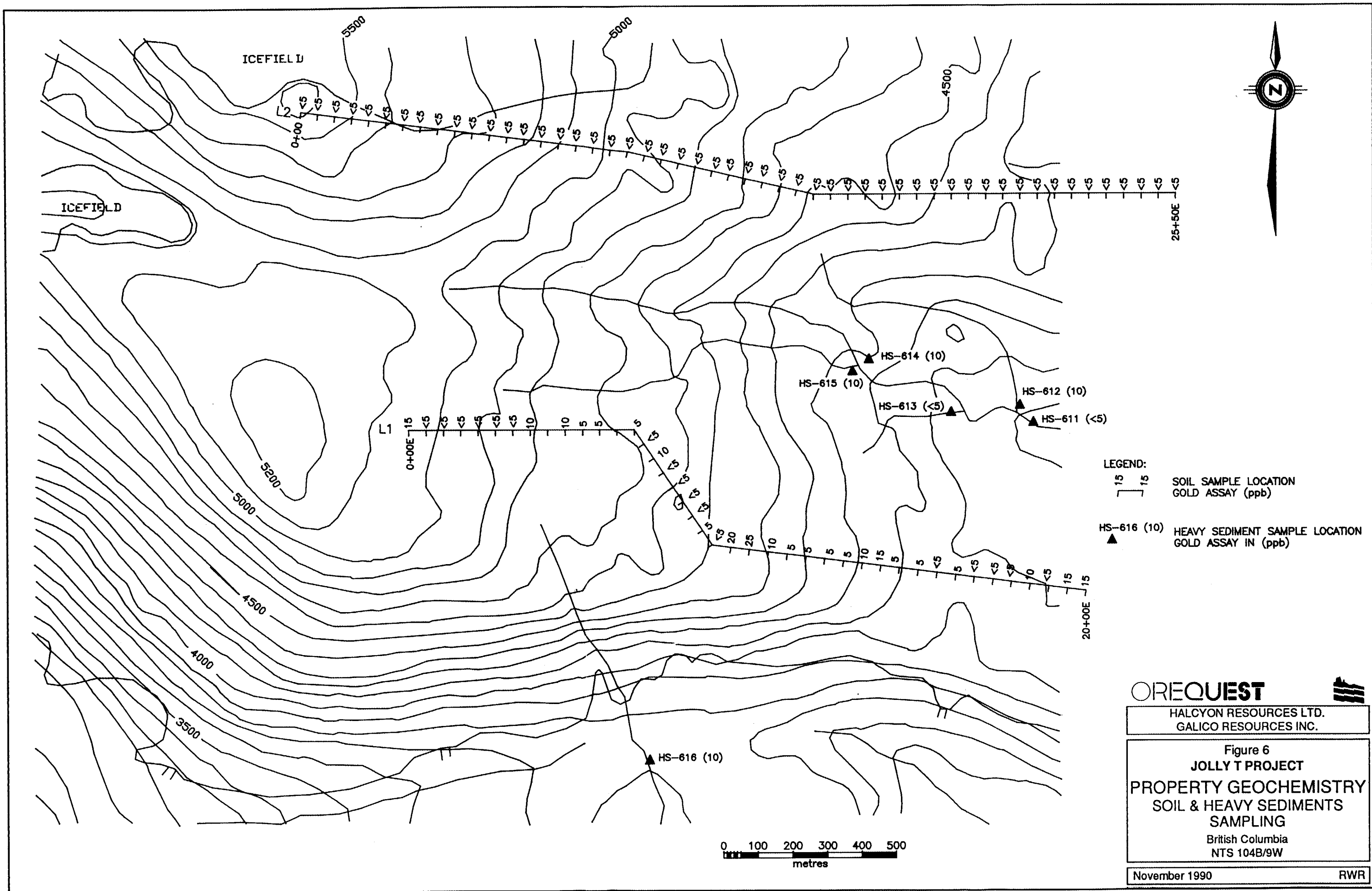
noted during the mapping program and the only sulphide observed was minor pyrite.

#### PROPERTY GEOCHEMISTRY

A total of 6 heavy mineral concentrate stream sediment samples, 63 soil samples and 11 rocks were collected and sent for assay. All samples were sent to TSL Laboratories for sample preparation in Richmond, B.C., and analysis in Saskatoon, Saskatchewan or Vangeochem Labs Ltd. in Vancouver. Samples were analyzed for gold by atomic absorption plus a 35 (TSL) or 25 elements (Vangeochem) by inductively coupled plasma (ICP) spectrophotometry. Soil samples were collected along two traverse lines, at 50 m intervals, using a mattock to collect material from the B horizon at a depth of 10 to 30 cm and placing it into kraft paper bags. Heavy mineral concentrate sediment samples were collected from active drainages by passing material through a 10 mesh screen and collecting approximately 2 kg of the fines into a plastic sample bag. Rock sample descriptions are listed in Appendix I, followed by assay certificates in Appendix II and analytical procedures in Appendix III.

No anomalous gold results were returned from any sample type, the maximum value being 25 ppb gold in soil. Rock sample locations and gold values are plotted on Figure 5 while soil and stream sediment sample locations and gold values can be found on Figure 6.





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Figure 6  
**JOLLY T PROJECT**  
**PROPERTY GEOCHEMISTRY**  
**SOIL & HEAVY SEDIMENTS**  
**SAMPLING**  
 British Columbia  
 NTS 104B/9W

November 1990 RWR

A statistical analysis of the ICP soil geochemical data was done using the PC-XPLOR version 1.21 software package. The data from the Jolly T Project was included as part of an overall larger data base collected from six properties explored by OreQuest this year, all of which are underlain by similar rock types. The arithmetic means and standard deviations (SD) calculated were used to determine threshold and anomalous levels for the elements chosen as possible indicators of potential gold mineralization.

Results of the statistical analysis are tabulated below, rounded off to the nearest integer. Values greater than mean plus one standard deviation are considered possibly anomalous while those over mean plus 2 standard deviations are definitely anomalous.

Table 2 - ICP Soil Geochemistry Statistics

Element		Arithmetic Mean	Mean +1xSD*	Mean +2xSD*
Copper	(Cu)	29	47	66
Lead	(Pb)	14	21	28
Zinc	(Zn)	79	115	150
Nickel	(Ni)	50	81	112
Silver	(Ag)	2	3	3
Cobalt	(Co)	13	24	34
Molybdenum	(Mo)	3	4	6
Antimony	(Sb)	7	12	16
Arsenic	(As)	12	20	27

\* (SD) = Standard Deviation

Application of these values to the soil sample results from the Jolly T Project yields mostly spot anomalies in copper, zinc, nickel

and arsenic. Assays include highs of 129 ppm copper, 161 ppm nickel, and 778 ppm zinc.

Geological evaluation of the project area indicates that exposed quartz veins and the host lithologies, in general, are virtually barren. The magnitude of the anomalies in the soil likely represents only weakly mineralized material at best, particularly if any surface enrichment or mechanical concentration has occurred.

STATEMENT OF EXPENDITURES

Mobilization/Demobilization (pro-rated from Iskut Project)	\$ 682.78
Wages:	
G. Cavey (consulting geologist) 2.0 days @ \$525/day	1,050.00
G. Malensek (geologist) 3 days @ \$320/day	960.00
D. Wiggerman (field assistant) 2.5 days @ \$300/day	750.00
F. Brodie ( " ) 2 days @ \$280/day	560.00
S. Floyd ( " ) 3.5 days @ \$220/day	770.00
	<u>\$ 4,090.00</u>
Engineering, Supervision & Administration (direct and pro-rated from Iskut Project)	1,629.28
Support Costs (camp costs, expiditing, etc. - direct and pro-rated from Iskut Project)	2,949.89
Transportation & Communication (pro-rated from Iskut Project)	420.77
Helicopter	2,583.43
Analyses	1,820.45
Report	<u>2,792.88</u>
Total Expenditures	<u>\$16,975.28</u>

CERTIFICATE of QUALIFICATIONS

I, Grant A. Malensek of 7809 Borden Street, Vancouver, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1987) and hold a BSc. degree in Geology.
2. I am presently employed as a geologist with OreQuest Consultants Ltd. of #306-595 Howe Street, Vancouver, British Columbia.
3. I have been employed in my profession by various mining companies since 1986 and have worked in British Columbia and Papua New Guinea.
4. The information contained in this report was obtained by conducting the exploration program on the property and a review of the materials listed in the bibliography.
5. Neither OreQuest Consultants Ltd. nor myself have or expect to receive direct or indirect interest in the Jolly T Project or in the securities of Halcyon Resources Ltd. or Galico Resources Inc.
6. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.

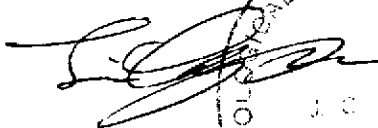
Grant A. Malensek, B.Sc

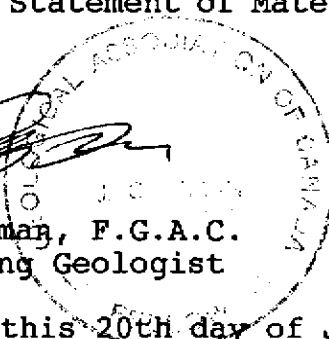
DATED at Vancouver, British Columbia, this 20th day of January, 1991

CERTIFICATE of QUALIFICATIONS

I, Jim Chapman, of Route 1, Box L15, Bowen Island, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1976) and hold a BSc. degree in geology.
2. I am presently employed as a consulting geologist with OreQuest Consultants Ltd. of 306-595 Howe Street, Vancouver, British Columbia.
3. I have been employed in my profession by various mining companies since graduation.
4. I am a Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
5. I am a Fellow of the Geological Association of Canada.
6. The information contained in this report was obtained from a review of data listed in the bibliography, a property examination and knowledge of the area.
7. I have no interest, direct or indirect in the Jolly T Project or in the securities of Halcyon Resources Ltd. or Galico Resources Inc.
8. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.

  
Jim Chapman, F.G.A.C.  
Consulting Geologist



DATED at Vancouver, British Columbia, this 20th day of January, 1991

## BIBLIOGRAPHY

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GROVE, E.W.

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RAVEN, W. CHAPMAN, J.

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SOUTHER, J.G., BREW, D.A., OKULITCH, A.V.  
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VANCOUVER STOCKWATCH

1990: September 14.

1990: October 10.

1990: October 30.

APPENDIX I  
ROCK SAMPLE DESCRIPTION



SAMPLE	LITHOLOGY / REMARKS/ALTERATION/STRUCTURE / MINERALIZATION
GS 16916	- ARGILLITE - Massive Qtz vein, white bull qtz, coarse grained zone of irr. veinlets < 10 cm trending 080° appx., vuggy. - Barren, no visible mineralization.
GS 16917	- ARGILLITE - Massive Qtz vein, as above > 2m wide for + 50 m strike trending 050°. - Barren no mineralization
GS 16918	- ARGILLITE - Massive Qtz vein, as above 1m wide 010°/90 trend for +50 m, many veinlets run perpendicular to trend - Barren, small metallic grey FeOx stain.
GS 16920	- QTZ VEIN (BLDR?) - As above, offset (?) by 50 m from 16919, weakly gossanous - Barren
GS 16921	- SHEARED CONGLOMERATE - 20 m wide shear zone, irregular spaced 2 cm wide stringers but also anastomosing and irregular. - Barren
16922	- ARGILLITE - Grey, fg, well bedded, strongly cleaved, trace rusty weathering S <sub>0</sub> 120°/60° NE, S, 060°/48° NE, vein 130°/60NE - 75 cm wide massive qtz vein, barren.
F 16923	- INT. INTRUSIVE? - Boulder 40 x 40 cm gossanous texture almost obliterated qtz rich- 1° or 2° flooding? mod. hard, 100% oxidized. - Probably py-rich-1m after py.
GS 16924	- FELDSPATHIC SST - - Massive qtz vein, gossanous coating along vugs, highly fractured - no structural measurement.
GS 16925	- FELDSPATHIC SST - Veining 050/90° - Qtz-blowout- 5 m wide zone anastomosing rusty weathering qtz stringer 1 to bedding 0.5 to 5cm wide w/ limonite after py (+ep).
GS 16926	- MASSIVE QTZ VEIN - - 50 m along strike 2 m wide, trending 150°/90 orange weathering massive cg texture, barren.

APPENDIX II  
ASSAY CERTIFICATES



# TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST  
SASKATOON, SASKATCHEWAN  
S7K 6A4

☎ (306) 931-1033 FAX (306) 242-4717

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Explorations Ltd.  
Prime Capital Place  
10th Floor-Box 10  
808 West Hastings Street.  
Vancouver, B.C. V6C 2X6

REPORT No.  
S9971

SAMPLE(S) OF Rock

INVOICE #: 15429  
P.O.: R2528

W. Raven  
Project REG

REMARKS: Orequest Consultants

	Au ppb
16916	<5
16917	<5
16918	<5
16919	<5
16920	<5
16921	<5
16922	<5
16923	15
16924	<5
16925	<5
16926	<5

COPIES TO: J. Foster, P. Lougheed  
INVOICE TO: Prime-Vancouver

Sep 13/90

SIGNED

Page 1 of 1



T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4  
 TELEPHONE #: (306) 931 - 1033  
 FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.  
 10th Floor Box 10  
 808 West Hastings St.  
 Vancouver B.C. V6C 2X6

T.S.L. REPORT No. : 5 - 9971 - 1  
 T.S.L. File No. : M 8017  
 T.S.L. Invoice No. : 15732

ATTN: J. FOSTER PROJECT: REG HALCMON OREQUEST CONSULTANTS R-2528

ALL RESULTS PPM

ELEMENT	16914	16917	16918	16919	16920	16921	16922	16923
Aluminum [Al]	5900	2900	4500	630	3800	7800	2100	2900
Iron [Fe]	11000	5800	8800	2400	7600	10000	4100	17000
Calcium [Ca]	2300	400	400	360	520	4300	1400	660
Magnesium [Mg]	3500	1900	2700	350	2500	5500	1500	2200
Sodium [Na]	40	170	120	30	80	40	50	160
Potassium [K]	300	70	350	50	170	210	140	1100
Titanium [Ti]	45	16	13	11	17	17	10	13
Manganese [Mn]	150	47	83	19	180	280	71	78
Phosphorus [P]	220	120	170	150	240	200	100	480
Barium [Ba]	18	6	24	4	12	18	6	90
Chromium [Cr]	110	85	130	110	140	210	120	65
Zirconium [Zr]	1	1	2	< 1	3	3	1	3
Copper [Cu]	120	6	14	3	6	4	4	4
Nickel [Ni]	133	13	21	5	22	65	14	7
Lead [Pb]	17	< 1	3	< 1	< 1	< 1	< 1	6
Zinc [Zn]	189	20	19	6	16	21	11	10
Vanadium [V]	13	12	9	2	9	22	5	26
Strontium [Sr]	51	8	7	9	12	80	37	19
Cobalt [Co]	3	1	3	< 1	3	5	2	< 1
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	< 5	10	< 5	< 5
Yttrium [Y]	3	1	1	< 1	3	3	1	1
Scandium [Sc]	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic [As]	5	15	< 5	< 5	< 5	< 5	< 5	15
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	5	< 5	< 5	10	< 5	< 5
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-30-1996

SIGNED :

*Bernie Owen*

T.S.L. LABORATORIES

2-302-46TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4  
 TELEPHONE #: (306) 931-1033  
 FAX #: (306) 242-4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.  
 10th Floor Box 10  
 508 West Hastings St.  
 Vancouver B.C. V6C 2X6

T.S.L. REPORT No.: S-9971-2  
 T.S.L. File No.: SE15M4  
 T.S.L. Invoice No.: 15732

ATTN: J. FOSTER PROJECT: REG HALCOMB OREQUEST CONSULTANTS R-2528

ALL RESULTS PPM

ELEMENT	16924	16925	16926
Aluminum [Al]	1500	1200	1200
Iron [Fe]	8500	6100	3100
Calcium [Ca]	300	180	80
Magnesium [Mg]	990	400	1100
Sodium [Na]	40	100	30
Potassium [K]	190	160	50
Titanium [Ti]	8	5	12
Manganese [Mn]	200	110	46
Phosphorus [P]	120	76	36
Barium [Ba]	18	14	5
Chromium [Cr]	93	150	140
Zirconium [Zr]	2	1	< 1
Copper [Cu]	9	8	19
Nickel [Ni]	15	16	12
Lead [Pb]	5	6	2
Zinc [Zn]	23	15	6
Vanadium [V]	6	3	3
Strontium [Sr]	8	5	2
Cobalt [Co]	2	2	1
Molybdenum [Mo]	< 2	< 2	4
Silver [Ag]	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1
Boron [B]	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5
Yttrium [Y]	4	2	< 1
Scandium [Sc]	< 1	< 1	< 1
Tungsten [W]	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10
Thorium [Th]	< 10	< 10	< 10
Arsenic [As]	< 5	< 5	< 5
Bismuth [Bi]	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	< 5
Holmium [Ho]	< 10	< 10	< 10

DATE: SEP-30-1990

SIGNED:

*Bernie Owen*

1030 PRINCE STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656

# VGC VANGEOCHEM LAB LIMITED

**MAIN OFFICE**  
1088 TRIUMPH ST.  
VANCOUVER, B.C. V5L 1K5  
• (604) 251-5656  
• FAX (604) 254-5717

**BRANCH OFFICES**  
PASADENA, N.F.L.D.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A

REPORT NUMBER: 900450 GA

JOB NUMBER: 900450

ORQUEST CONSULTANTS LTD.

PAGE 1 OF 2

SAMPLE #	Au ppb
HA-LI 0+00E	15
HA-LI 0+50E	nd
HA-LI 1+00E	nd
HA-LI 1+50E	nd
HA-LI 2+00E	nd
HA-LI 2+50E	nd
HA-LI 3+00E	nd
HA-LI 3+50E	10
HA-LI 4+00E	nd
HA-LI 4+50E	10
HA-LI 5+00E	5
HA-LI 5+50E	5
HA-LI 6+00E	nd
HA-LI 6+50E	5
HA-LI 7+00E	nd
HA-LI 7+50E	10
HA-LI 8+00E	nd
HA-LI 8+50E	nd
HA-LI 9+00E	nd
HA-LI 9+50E	nd
HA-LI 10+00E	5
HA-LI 10+50E	nd
HA-LI 11+00E	20
HA-LI 11+50E	25
HA-LI 12+00E	10
HA-LI 12+50E	5
HA-LI 13+00E	5
HA-LI 13+50E	5
HA-LI 14+00E	10
HA-LI 14+50E	15
HA-LI 15+00E	5
HA-LI 15+50E	5
HA-LI 16+00E	nd
HA-LI 16+50E	5
HA-LI 17+00E	nd
HA-LI 17+50E	nd
HA-LI 18+00E	nd
HA-LI 18+50E	10
HA-LI 19+00E	nd

DETECTION LIMIT 5

nd = none detected

-- = not analysed

is = insufficient sample

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656



MAIN OFFICE  
1988 TRIUMPH ST.  
VANCOUVER, B.C. V5L 1K5  
• (604) 251-5656  
• FAX (604) 254-5717

BRANCH OFFICES  
PASADENA, N.F.L.D.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900450 GA

JOB NUMBER: 900450

ORQUEST CONSULTANTS LTD.

PAGE 2 OF 2

SAMPLE #	µg ppb
HA-LI 19+508	15
HA-LI 20+008	15

DETECTION LIMIT  
nd = none detected

5

-- = not analysed

is = insufficient sample

1630 Pandora Street, Vancouver, B.C. V5L 1L6  
 Ph:(604)251-5656 Fax:(604)254-5717

**ICAP GEOCHEMICAL ANALYSIS**

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Ryzall*

REPORT #: 900450 PA     DREQUEST CONSULTANTS LTD.     PROJECT: HALCYON REG CLAIM JOLLY TDATE IN: SEPT 11 1990     DATE OUT: OCT 09 1990     ATTENTION: MR. GEORGE CAVEY     PAGE 1 OF 2

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	I	ppm	ppm	ppm	I	ppm	ppm	ppm	ppm	I	I	I	ppm	ppm	I	ppm	I	ppm	ppm	ppm	ppm	ppm	ppm	ppm
HA-LI 0+00E	0.3	5.34	<3	71	<3	0.28	3.1	49	50	67	5.83	0.15	0.93	1068	8	0.05	73	0.12	<2	<2	48	22	<5	<3	147
HA-LI 0+50E	0.2	4.94	<3	65	<3	0.22	2.1	38	64	57	5.67	0.14	1.08	1085	7	0.05	83	0.10	<2	<2	29	19	<5	<3	139
HA-LI 1+00E	0.1	7.56	<3	70	<3	0.37	3.5	59	57	67	7.64	0.22	1.04	1617	10	0.07	65	0.15	<2	<2	57	26	<5	<3	173
HA-LI 1+50E	<0.1	7.13	<3	82	<3	0.34	3.2	50	60	71	7.28	0.20	0.97	1227	10	0.06	71	0.15	<2	<2	50	39	<5	<3	206
HA-LI 2+00E	<0.1	4.99	<3	42	<3	0.17	2.1	39	55	48	5.76	0.13	0.90	1150	12	0.05	80	0.07	<2	<2	31	11	<5	<3	162
HA-LI 2+50E	<0.1	4.03	<3	110	<3	0.12	3.2	31	67	63	4.59	0.09	1.00	799	8	0.03	109	0.08	<2	<2	18	13	<5	<3	233
HA-LI 3+00E	<0.1	7.24	<3	65	<3	0.33	2.6	54	50	42	7.43	0.20	0.65	1534	12	0.06	29	0.10	<2	<2	72	22	<5	<3	119
HA-LI 3+50E	<0.1	4.93	<3	91	<3	0.12	2.0	14	15	16	5.54	0.16	0.14	914	14	0.10	14	0.02	<2	<2	20	7	<5	<3	168
HA-LI 4+00E	<0.1	>10.00	<3	49	<3	0.28	2.4	44	40	44	7.45	0.22	0.56	844	9	0.05	20	0.09	<2	<2	37	17	<5	<3	77
HA-LI 4+50E	<0.1	5.32	<3	51	<3	0.16	2.6	36	53	38	5.57	0.13	0.74	1016	11	0.04	59	0.08	<2	<2	46	12	<5	<3	125
HA-LI 5+00E	<0.1	4.41	<3	85	<3	0.22	3.2	39	62	50	5.34	0.14	0.97	893	12	0.06	72	0.09	<2	<2	41	21	<5	<3	178
HA-LI 5+50E	<0.1	3.06	<3	76	<3	0.09	1.9	24	83	45	3.92	0.08	1.31	845	7	0.03	109	0.03	<2	<2	<2	11	<5	<3	127
HA-LI 6+00E	<0.1	2.88	<3	94	<3	0.15	1.6	30	101	64	4.28	0.08	1.53	696	8	0.02	141	0.06	<2	<2	4	19	<5	<3	155
HA-LI 6+50E	0.1	5.04	<3	78	<3	0.33	2.5	51	81	65	6.05	0.17	1.52	1048	11	0.07	84	0.13	<2	<2	45	30	<5	<3	164
HA-LI 7+00E	0.2	4.91	<3	85	<3	0.20	2.4	40	62	46	5.57	0.16	1.04	1105	12	0.06	74	0.07	<2	<2	32	19	<5	<3	162
HA-LI 7+50E	0.6	5.41	<3	76	<3	0.20	2.2	40	56	48	6.04	0.17	0.79	1605	9	0.05	59	0.15	<2	<2	41	18	<5	<3	155
HA-LI 8+00E	0.2	3.03	<3	108	<3	0.06	1.8	22	83	51	3.94	0.08	1.33	797	7	0.02	106	0.04	<2	<2	<2	10	<5	<3	130
HA-LI 8+50E	0.5	5.74	<3	100	<3	0.09	1.7	27	50	57	5.46	0.14	0.65	899	11	0.05	55	0.09	<2	<2	14	8	<5	<3	167
HA-LI 9+00E	<0.1	6.06	<3	57	<3	0.27	2.1	49	57	63	6.46	0.18	0.87	1162	13	0.06	50	0.13	<2	<2	55	22	<5	<3	145
HA-LI 9+50E	<0.1	6.84	<3	45	<3	0.18	2.4	39	48	53	6.41	0.17	0.61	860	12	0.05	36	0.08	<2	<2	50	11	<5	<3	128
HA-LI 10+00E	<0.1	8.66	<3	60	<3	0.20	1.7	45	47	36	6.26	0.17	0.79	1103	6	0.04	40	0.08	<2	<2	31	12	<5	<3	76
HA-LI 10+50E	<0.1	6.92	<3	44	<3	0.16	1.4	43	48	45	6.22	0.16	0.75	1161	9	0.05	38	0.09	<2	<2	43	10	<5	<3	129
HA-LI 11+00E	<0.1	5.78	<3	49	<3	0.49	2.3	39	26	22	5.52	0.16	0.64	537	8	0.08	5	0.08	<2	<2	78	44	<5	<3	67
HA-LI 11+50E	<0.1	6.04	<3	31	<3	0.18	2.4	36	44	35	6.57	0.16	0.42	780	14	0.04	11	0.09	<2	<2	76	10	<5	<3	98
HA-LI 12+00E	<0.1	4.60	<3	63	<3	0.14	1.7	44	56	45	5.85	0.14	0.81	1467	8	0.04	72	0.12	<2	<2	32	12	<5	<3	135
HA-LI 12+50E	<0.1	2.69	<3	78	<3	0.01	1.0	19	68	40	3.30	0.05	1.18	628	6	0.02	87	0.04	<2	<2	<2	5	<5	<3	114
HA-LI 13+00E	<0.1	3.95	<3	50	<3	0.09	1.5	26	58	57	4.34	0.08	0.90	705	7	0.03	76	0.10	<2	<2	17	10	<5	<3	136
HA-LI 13+50E	0.4	6.55	<3	65	<3	0.15	6.5	77	59	129	6.88	0.18	1.06	2288	9	0.07	151	0.16	<2	<2	33	14	<5	<3	778
HA-LI 14+00E	<0.1	3.38	<3	64	<3	0.18	1.8	33	66	54	4.36	0.10	1.30	951	7	0.05	82	0.07	<2	<2	13	21	<5	<3	177
HA-LI 14+50E	<0.1	3.45	<3	60	<3	0.06	2.1	26	56	41	4.04	0.08	0.97	800	4	0.03	67	0.09	<2	<2	18	9	<5	<3	149
HA-LI 15+00E	0.3	3.98	<3	53	<3	0.12	2.2	32	54	44	4.47	0.11	0.95	929	7	0.04	55	0.10	<2	<2	33	13	<5	<3	120
HA-LI 15+50E	0.2	5.84	<3	33	<3	0.24	2.0	36	37	30	5.90	0.17	0.54	719	9	0.06	15	0.10	<2	<2	73	16	<5	<3	85
HA-LI 16+00E	0.1	8.78	<3	11	<3	0.12	1.5	32	24	25	5.60	0.14	0.37	1254	8	0.04	<1	0.08	<2	<2	31	4	<5	<3	54
HA-LI 16+50E	0.2	5.72	<3	14	<3	0.05	1.2	14	14	11	5.14	0.13	0.12	869	9	0.07	<1	0.04	<2	<2	13	1	<5	<3	81
HA-LI 17+00E	0.4	6.27	<3	26	<3	0.09	2.0	25	30	48	6.08	0.17	0.21	285	10	0.07	4	0.07	<2	<2	55	4	<5	<3	84
HA-LI 17+50E	0.2	4.18	<3	44	<3	0.05	0.7	28	64	22	4.27	0.09	0.88	849	7	0.02	52	0.06	<2	<2	21	6	<5	<3	81
HA-LI 18+00E	0.1	2.62	<3	54	<3	<0.01	1.1	23	76	33	3.60	0.06	1.29	743	8	0.02	97	0.05	<2	<2	<2	6	<5	<3	96
HA-LI 18+50E	0.2	4.40	<3	59	<3	0.13	2.4	29	54	32	4.82	0.11	0.92	549	9	0.05	50	0.09	<2	<2	48	14	<5	<3	109
HA-LI 19+00E	0.2	3.41	<3	64	<3	0.03	0.6	21	91	33	4.11	0.08	1.20	611	25	0.03	161	0.08	<2	<2	11	8	<5	<3	109

Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000



ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: Raymond G.

REPORT #: 900450 PA

DREQUEST CONSULTANTS LTD.

PROJECT: HALCYON REG CLAIM JOLLY TDATE IN: SEPT 11 1990

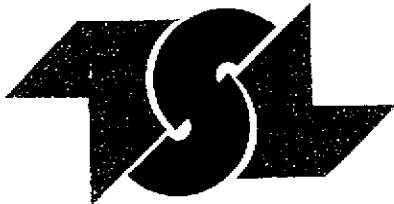
DATE OUT: OCT 09 1990

ATTENTION: MR. GEORGE CAVEY

PAGE 2 OF 2

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	I	ppm	ppm	ppm	I	ppm	ppm	ppm	ppm	I	I	I	ppm	ppm	I	ppm	I	ppm	ppm	ppm	ppm	ppm	ppm	ppm
HA-LI 19+50E	0.1	3.42	<3	88	<3	0.03	0.6	18	91	30	4.04	0.11	1.39	625	7	0.02	109	0.04	<2	<2	9	7	<5	<3	101
HA-LI 20+00E	0.3	4.77	<3	49	<3	0.11	1.3	33	69	37	5.13	0.14	0.81	984	12	0.04	59	0.12	<2	<2	21	11	<5	<3	104
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000

< - Less Than Minimum    > - Greater Than Maximum    is - Insufficient Sample    ns - No Sample    ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.



# TSL LABORATORIES

DIV. BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST  
SASKATOON, SASKATCHEWAN  
S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Explorations Ltd.  
Prime Capital Place  
10th Floor-Box 10  
808 West Hastings Street.  
Vancouver, B.C. V6C 2X6

REPORT No.  
S1007

INVOICE #: 15504  
P.O.: R2531

SAMPLE(S) OF Soil

W. Raven  
Project REG

REMARKS: Orequest Consultants - HALCYON

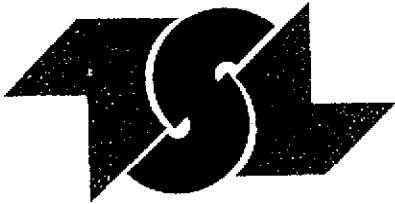
	Au ppb
L2 0+00	<5
L2 0+50E	<5
L2 1+00E	<5
L2 1+50E	<5
L2 2+00E	<5
L2 2+50E	<5
L2 3+00E	<5
L2 3+50E	<5
L2 4+00E	<5
L2 4+50E	<5
L2 5+00E	<5
L2 5+50E	<5
L2 6+00E	<5
L2 6+50E	<5
L2 7+00E	<5
L2 7+50E	<5
L2 8+00E	<5
L2 8+50E	<5
L2 9+00E	<5
L2 9+50E	<5

COPIES TO: J. Foster, P. Lougheed  
INVOICE TO: Prime-Vancouver

Sep 17/90

SIGNED *Dennis Pilizial*





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S1007

INVOICE #: 15504  
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SAMPLE(S) OF Soil

W. Raven  
Project REG

REMARKS: Orequest Consultants - HALCYON

	Au ppb
L2 10+00E	<5
L2 10+50E	<5
L2 11+00E	<5
L2 11+50E	<5
L2 12+00E	<5
L2 12+50E	<5
L2 13+00E	<5
L2 13+50E	<5
L2 14+00E	<5
L2 14+50E	<5
L2 15+00E	<5
L2 15+50E	<5
L2 16+00E	<5
L2 16+50E	<5
L2 17+00E	<5
L2 17+50E	<5
L2 18+00E	<5
L2 18+50E	<5
L2 19+00E	<5
L2 19+50E	<5

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2 - 302 - 48th STREET, EAST  
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REPORT No.  
S1007

INVOICE #: 15504  
P.O.: R2531

SAMPLE(S) OF Soil

W. Raven  
Project REG

REMARKS: Orequest Consultants - HALCYON

	Au ppb
L2 20+00E	<5
L2 20+50E	<5
L2 21+00E	<5
L2 21+50E	<5
L2 22+00E	<5
L2 22+50E	<5
L2 23+00E	<5
L2 23+50E	<5
L2 24+00E	<5
L2 24+50E	<5
L2 25+00E	<5
L2 25+50E	<5

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Sep 17/90

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Page 3 of 3



T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4

TELEPHONE #: (306) 931 - 1033

FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.

10th Floor Box 10

808 West Hastings St.

Vancouver B.C. V6C 2X6

T.S.L. REPORT No. : 5 - 1007 - 1

T.S.L. File No. : M - 8075

T.S.L. Invoice No. : 15648

ATTN: J. FOSTER

PROJECT: REG

OREQUEST CONSULTANTS

HALCYON

ALL RESULTS PPM

ELEMENT	L2 0+00	L2 0+50E	L2 1+00E	L2 1+50E	L2 2+00E	L2 2+50E	L2 3+00E
Aluminum [Al]	26450	22360	29780	27500	24480	28050	40730
Iron [Fe]	39300	45250	42860	40640	37240	35970	48160
Calcium [Ca]	1360	1440	1040	3100	1700	4680	3640
Magnesium [Mg]	5850	7410	6200	6200	5640	5970	6640
Sodium [Na]	420	80	380	1260	370	1580	750
Potassium [K]	470	330	590	990	640	1130	480
Titanium [Ti]	2717	528	2616	3345	1935	3130	+ 6316
Manganese [Mn]	959	1626	968	779	811	621	894
Phosphorus [P]	828	1176	818	796	584	726	1016
Barium [Ba]	93	77	94	113	152	145	123
Chromium [Cr]	40	82	53	47	47	40	39
Zirconium [Zr]	13	5	12	10	23	30	33
Copper [Cu]	38	63	43	30	35	30	31
Nickel [Ni]	55	131	77	61	69	51	53
Lead [Pb]	19	22	19	13	17	12	10
Zinc [Zn]	99	133	107	92	105	110	112
Vanadium [V]	71	43	74	75	56	70	124
Strontium [Sr]	17	24	15	42	28	71	43
Cobalt [Co]	22	34	25	18	19	16	29
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	< 1	2	< 1	< 1	1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	1	< 1	< 1	< 1	1	1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	< 5	10	< 5
Yttrium [Y]	11	11	11	9	14	15	15
Scandium [Sc]	5	5	5	5	4	5	9
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	40	20	40	40	30	20	30
Arsenic [As]	< 5	15	5	< 5	20	20	5
Bismuth [Bi]	10	5	< 5	< 5	< 5	5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	10	20	20	20	15	15	15
Neonium [Ne]	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED :

*Bernie Owen*

T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4  
 TELEPHONE #: (306) 931 - 1033  
 FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.  
 10th Floor Box 10  
 808 West Hastings St.  
 Vancouver B.C. V6C 2X6

T.S.L. REPORT No. : S - 1007 - 2  
 T.S.L. File No. : SE24MC  
 T.S.L. Invoice No. : 15648

ATTN: J. FOSTER PROJECT: REG OREQWEST CONSULTANTS HALCYON ALL RESULTS PPM

ELEMENT	L2 J+50E	L2 4+00E	L2 4+50E	L2 5+00E	L2 5+50E	L2 6+00E	L2 6+50E
Aluminum [Al]	29070	44860	22480	32340	27150	25740	27180
Iron [Fe]	40840	49250	39390	42160	38340	31700	43900
Calcium [Ca]	2000	2680	880	1040	2360	1740	13120
Magnesium [Mg]	5700	5520	5700	5390	6190	5540	7840
Sodium [Na]	380	1020	270	360	650	830	6790
Potassium [K]	640	710	450	590	680	910	3500
Titanium [Ti]	3071	6342	1950	3060	3140	3131	5946
Manganese [Mn]	961	810	800	723	648	544	653
Phosphorus [P]	828	1068	746	808	738	760	652
Barium [Ba]	102	98	120	105	108	139	104
Chromium [Cr]	41	34	50	46	45	45	17
Zirconium [Zr]	22	26	6	27	29	23	32
Copper [Cu]	32	23	34	36	36	40	15
Nickel [Ni]	55	35	76	63	71	78	28
Lead [Pb]	15	11	15	16	12	16	3
Zinc [Zn]	107	81	94	109	114	130	71
Vanadium [V]	78	124	59	71	63	48	104
Strontium [Sr]	25	33	14	22	41	27	148
Cobalt [Co]	21	19	19	16	19	23	20
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	1	1	< 1	2	1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	5	< 5	< 5
Yttrium [Y]	14	12	8	18	13	11	10
Scandium [Sc]	5	7	4	5	5	5	7
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	20	50	20	20	40	40	40
Arsenic [As]	20	5	25	10	15	25	< 5
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	15	10	10	10	10	10	5
Helium [He]	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED : Bernie Dean

T.S.L. LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4  
 TELEPHONE #: (306) 931 - 1033  
 FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.  
 10th Floor Box 10  
 808 West Hastings St.  
 Vancouver B.C. V6C 2X6  
 ATTN: J. FOSTER

T.S.L. REPORT No. : S - 1007 - 3  
 T.S.L. File No. : SE24MC  
 T.S.L. Invoice No. : 1564B

PROJECT: REG OREQEST CONSULTANTS HALCYON

ALL RESULTS PPM

ELEMENT	L2 7+00E	L2 7+50E	L2 8+00E	L2 8+50E	L2 9+00E	L2 9+50E	L2 10+00E
Aluminum [Al]	29070	25930	26670	66940	38930	31960	32310
Iron [Fe]	38360	34270	42800	46880	38340	42960	40420
Calcium [Ca]	1480	680	1040	940	400	1540	1580
Magnesium [Mg]	6170	5780	6230	4840	1800	5100	5400
Sodium [Na]	600	290	440	150	400	310	460
Potassium [K]	840	560	670	80	480	540	700
Titanium [Ti]	3379	1962	2003	6050	1914	3544	3893
Manganese [Mn]	575	681	779	998	564	662	679
Phosphorus [P]	952	534	766	566	466	822	886
Barium [Ba]	94	99	92	36	93	137	97
Chromium [Cr]	51	52	53	24	17	40	42
Zirconium [Zr]	19	11	7	42	119	22	17
Copper [Cu]	43	34	40	15	19	27	32
Nickel [Ni]	70	66	77	17	16	50	53
Lead [Pb]	15	12	19	8	22	16	15
Zinc [Zn]	116	95	116	48	82	97	101
Vanadium [V]	69	55	63	128	35	68	76
Strontium [Sr]	23	15	16	6	5	28	20
Cobalt [Co]	18	17	20	15	9	13	15
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	2	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	1	< 1	< 1	3	1	1
Baron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Yttrium [Y]	10	14	8	8	30	17	13
Scandium [Sc]	6	4	4	6	4	5	5
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	30	20	40	30	< 10	30	20
Arsenic [As]	10	5	25	20	10	25	40
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	10	5	5	< 5	< 5	5	< 5
Holmium [Ho]	< 10	< 10	10	< 10	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED :

*Bernie Dean*

T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN 57K 6A4  
 TELEPHONE #: (306) 931 - 1033  
 FAX #: (306) 242 - 4717

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Aqua-Regia Digestion

PRIME EXPLORATION LTD.  
 10th Floor Box 10  
 808 West Hastings St.  
 Vancouver B.C. V6C 2X6  
 ATTN: J. FOSTER

T.S.L. REPORT No. : S - 1007 - 4  
 T.S.L. File No. : SE24MC  
 T.S.L. Invoice No. : 15648

PROJECT: REG DREQUEST CONSULTANTS HALCYON ALL RESULTS PPM

ELEMENT	L2 10+50E	L2 11+00E	L2 11+50E	L2 12+00E	L2 12+50E	L2 13+00E	L2 13+50E
Aluminum [Al]	30400	21830	23170	20910	26300	25400	28830
Iron [Fe]	40870	31920	32950	31650	38120	30220	37490
Calcium [Ca]	3220	1080	2200	2020	5740	360	1460
Magnesium [Mg]	6310	6160	6010	6190	6830	5680	5970
Sodium [Na]	1620	510	840	460	3060	240	740
Potassium [K]	1020	540	730	570	1650	570	560
Titanium [Ti]	3802	685	2425	1560	4255	727	2590
Manganese [Mn]	601	519	468	411	520	358	668
Phosphorus [P]	860	406	570	580	772	350	584
Barium [Ba]	96	68	84	82	76	54	48
Chromium [Cr]	42	52	41	54	33	55	44
Zirconium [Zr]	13	2	23	12	19	9	9
Copper [Cu]	29	34	30	36	26	40	26
Nickel [Ni]	52	68	57	73	42	75	55
Lead [Pb]	16	12	11	10	11	9	12
Zinc [Zn]	90	94	101	81	90	113	89
Vanadium [V]	80	42	57	47	79	40	70
Strontium [Sr]	40	15	32	29	62	7	18
Cobalt [Co]	16	14	15	13	17	12	17
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	5	< 5	< 5
Yttrium [Y]	9	6	10	8	10	7	7
Scandium [Sc]	5	3	4	4	5	3	4
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	50	30	30	20	60	40	20
Arsenic [As]	20	25	15	10	5	10	20
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED :

*Bernie Dunn*



T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4  
 TELEPHONE #: (306) 931 - 1033  
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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

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 Vancouver B.C. V6C 2X6  
 ATTN: J. FOSTER

T.S.L. REPORT No. : S - 1007 - 5  
 T.S.L. File No. : SE24MC  
 T.S.L. Invoice No. : 15648

PROJECT: REG OREQWEST CONSULTANTS HALCYON

ALL RESULTS PPM

ELEMENT	L2 14+00E	L2 14+50E	L2 15+00E	L2 15+50E	L2 16+00E	L2 16+50E	L2 17+00E
Aluminum [Al]	32270	31640	28420	58600	28000	34920	29570
Iron [Fe]	39290	39700	39550	46840	40500	39190	37680
Calcium [Ca]	1560	1800	1220	700	1540	320	360
Magnesium [Mg]	6010	5740	5960	3410	5480	3530	5290
Sodium [Na]	600	310	440	150	730	550	210
Potassium [K]	640	500	680	130	670	650	420
Titanium [Ti]	3086	3637	3117	5357	2959	1697	1932
Manganese [Mn]	397	595	762	1181	862	973	713
Phosphorus [P]	830	818	952	624	866	466	634
Barium [Ba]	65	114	75	38	60	41	44
Chromium [Cr]	62	52	72	27	41	30	48
Zirconium [Zr]	12	24	16	33	16	43	11
Copper [Cu]	40	33	40	19	40	25	30
Nickel [Ni]	72	65	83	15	60	35	56
Lead [Pb]	16	13	13	16	17	18	14
Zinc [Zn]	108	127	98	47	121	102	92
Vanadium [V]	74	65	74	125	65	39	58
Strontium [Sr]	29	44	19	5	19	4	6
Cobalt [Co]	17	14	17	17	19	15	15
Molybdenum [Mo]	< 2	< 2	2	< 2	2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	1	< 1	< 1	< 1	2	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Yttrium [Y]	12	17	12	9	12	26	9
Scandium [Sc]	5	6	6	5	4	4	3
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	40	20	30	50	20	50	50
Arsenic [As]	20	15	35	35	15	20	20
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED :

*Bernie Dunn*

T S L LABORATORIES

2-302-48TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4

TELEPHONE #: (306) 931 - 1033

FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.  
10th Floor Box 10  
808 West Hastings St.  
Vancouver B.C. V6C 2X6  
ATTN: J. FOSTER

T.S.L. REPORT No. : S - 1007 - 6  
T.S.L. File No. : SE24MC  
T.S.L. Invoice No. : 15648

PROJECT: RES OREQUEST CONSULTANTS HALCYON ALL RESULTS PPM

ELEMENT	L2 17+50E	L2 18+00E	L2 19+50E	L2 19+00E	L2 19+50E	L2 20+00E	L2 20+50E
Aluminum [Al]	20990	40330	32110	28700	18910	35280	25920
Iron [Fe]	31230	43900	37930	32610	28010	36490	33860
Calcium [Ca]	240	1060	6140	760	340	560	980
Magnesium [Mg]	5950	4570	5670	4700	5750	1780	4800
Sodium [Na]	70	540	3040	360	100	450	480
Potassium [K]	380	580	1710	450	350	620	510
Titanium [Ti]	238	5304	6197	2846	428	1199	2018
Manganese [Mn]	494	722	408	468	505	720	584
Phosphorus [P]	402	1068	902	700	474	390	570
Barium [Ba]	48	72	115	52	40	23	34
Chromium [Cr]	52	32	23	40	51	13	38
Zirconium [Zr]	3	44	43	15	3	72	16
Copper [Cu]	40	33	24	34	33	13	24
Nickel [Ni]	76	34	25	47	66	17	44
Lead [Pb]	13	20	10	16	12	23	14
Zinc [Zn]	98	110	86	100	79	76	84
Vanadium [V]	31	90	79	60	34	22	53
Strontium [Sr]	7	14	86	13	7	4	12
Cobalt [Co]	15	16	13	12	13	5	11
Molybdenum [Mo]	< 2	< 2	< 2	< 2	< 2	4	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	2	1	1	< 1	1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Yttrium [Y]	7	19	13	12	6	10	7
Scandium [Sc]	2	6	6	4	2	1	3
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	40	40	20	40	50	< 10	50
Arsenic [As]	15	< 5	15	25	20	30	15
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED :

*Beenie Dean*

T S L LABORATORIES

2-302-48TH STREET, SASKATON, SASKATCHEWAN S7K 6A4

TELEPHONE #: (306) 931 - 1033

FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.

10th Floor Box 10

808 West Hastings St.

Vancouver B.C. V6C 2X6

ATTN: J. FSOTER

PROJECT: REG OREQUEST CONSULTANTS HALCYON

T.S.L. REPORT No. : S - 1007 - 7

T.S.L. File No. : SE24MC

T.S.L. Invoice No. : 15648

ALL RESULTS PPM

ELEMENT	L2 21+00E	L2 21+50E	L2 22+00E	L2 22+50E	L2 23+00E	L2 23+50E	L2 24+00E
Aluminum [Al]	20770	13250	36130	36710	30430	27750	17520
Iron [Fe]	32360	22030	38490	43690	36100	31380	27910
Calcium [Ca]	2920	1420	620	1120	1200	280	1080
Magnesium [Mg]	5670	5350	4270	4000	5070	5030	5160
Sodium [Na]	1660	310	240	540	460	150	120
Potassium [K]	990	350	370	370	560	330	430
Titanium [Ti]	1622	396	2803	5083	4020	1017	527
Manganese [Mn]	607	426	653	606	489	301	482
Phosphorus [P]	590	486	640	550	890	354	704
Barium [Ba]	50	36	44	30	73	43	55
Chromium [Cr]	37	44	39	28	40	44	43
Zirconium [Zr]	23	7	15	22	23	8	2
Copper [Cu]	31	27	21	12	27	19	34
Nickel [Ni]	52	59	32	21	46	49	60
Lead [Pb]	14	8	13	10	12	12	11
Zinc [Zn]	95	63	63	47	98	65	76
Vanadium [V]	43	26	79	106	71	43	35
Strontium [Sr]	34	19	8	11	16	6	18
Cobalt [Co]	14	12	11	9	13	6	13
Molybdenum [Mo]	< 2	< 2	< 2	< 2	2	< 2	< 2
Silver [Ag]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium [Be]	< 1	< 1	< 1	< 1	1	< 1	< 1
Boron [B]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Yttrium [Y]	10	5	6	7	13	8	7
Scandium [Sc]	3	2	4	4	5	3	2
Tungsten [W]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thorium [Th]	70	50	70	50	50	40	80
Arsenic [As]	10	5	30	15	15	5	10
Bismuth [Bi]	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lithium [Li]	30	30	15	15	25	30	25
Holmium [Ho]	< 10	< 10	< 10	< 10	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED :

*Bernie Dunn*

T S L LABORATORIES

2-302-46TH STREET, SASKATOON, SASKATCHEWAN S7K 6A4  
 TELEPHONE #: (306) 931 - 1033  
 FAX #: (306) 242 - 4717

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

PRIME EXPLORATION LTD.  
 10th Floor Box 10  
 808 West Hastings St.  
 Vancouver B.C. V6C 2X6  
 ATTN: J. FOSTER

T.S.L. REPORT No. : S - 1007 - 8  
 T.S.L. File No. : SE24MC  
 T.S.L. Invoice No. : 15648

PROJECT: REG OAREQUEST CONSULTANTS HALCYON

ALL RESULTS PPM

ELEMENT	L2 24+50E	L2 25+00E	L2 25+50E
Aluminum [Al]	33840	30050	52280
Iron [Fe]	37470	34970	39430
Calcium [Ca]	620	200	360
Magnesium [Mg]	3390	1430	2570
Sodium [Na]	420	630	90
Potassium [K]	380	550	80
Titanium [Ti]	3668	1257	3655
Manganese [Mn]	329	569	1523
Phosphorus [P]	572	430	598
Barium [Ba]	31	26	29
Chromium [Cr]	30	13	20
Zirconium [Zr]	34	52	23
Copper [Cu]	15	27	16
Nickel [Ni]	23	13	9
Lead [Pb]	16	20	10
Zinc [Zn]	53	80	33
Vanadium [V]	73	23	106
Strontium [Sr]	8	2	3
Cobalt [Co]	6	7	17
Molybdenum [Mo]	< 2	4	< 2
Silver [Ag]	< 1	< 1	< 1
Cadmium [Cd]	< 1	< 1	< 1
Beryllium [Be]	1	2	< 1
Boron [B]	< 10	< 10	< 10
Antimony [Sb]	< 5	< 5	< 5
Yttrium [Y]	11	26	9
Scandium [Sc]	4	2	4
Tungsten [W]	< 10	< 10	< 10
Niobium [Nb]	< 10	< 10	< 10
Thorium [Th]	40	< 10	< 10
Arsenic [As]	10	30	10
Bismuth [Bi]	< 5	< 5	< 5
Tin [Sn]	< 10	< 10	< 10
Lithium [Li]	15	10	< 5
Holmium [Ho]	< 10	< 10	< 10

DATE : SEP-25-1990

SIGNED :

*Bernie Chan*

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656

**VGC VANGEOCHEM LAB LIMITED**

**MAIN OFFICE**  
~~1368 TRIUMPH ST.~~  
VANCOUVER, B.C. V5L 1K5  
● (604) 251-5656  
● FAX (604) 254-5717

**BRANCH OFFICES**  
PASADENA, NFLD.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900451 GA

JOB NUMBER: 900451

REQUEST CONSULTANTS LTD.

PAGE 1 OF 1

SAMPLE #	Lu
HA-HS-611	nd
HA-HS-612	10
HA-HS-613	nd
HA-HS-614	10
HA-HS-615	10
HA-HS-616	>10

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 900451 PA

DREQUEST CONSULTANTS LTD.

PROJECT: HALCYON REG CLAIM JOLLY TDATE IN: SEPT 11 1990 DATE OUT: OCT 09 1990

ATTENTION: MR. GEORGE CAVEY

PAGE 1 OF 1

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
HA- HS-611	0.1	2.47	<3	94	<3	0.17	0.5	14	110	31	3.65	0.12	1.56	592	9	0.02	140	0.05	<2	<2	9	26	<5	289	100
HA- HS-612	0.1	2.58	<3	125	<3	0.18	0.4	16	87	37	4.06	0.12	1.42	589	10	0.02	123	0.06	<2	<2	9	35	<5	314	114
HA- HS-613	<0.1	2.62	<3	92	<3	0.13	0.5	17	117	36	4.15	0.13	1.67	737	10	0.03	143	0.05	<2	<2	9	21	<5	339	143
HA- HS-614	<0.1	2.34	<3	103	<3	0.11	<0.1	15	125	32	3.43	0.11	1.55	515	10	0.02	144	0.04	<2	<2	8	23	<5	300	105
HA- HS-615	<0.1	2.52	<3	106	<3	0.14	<0.1	14	118	29	3.69	0.12	1.56	609	8	0.02	124	0.05	<2	<2	8	24	<5	316	99
HA- HS-616	<0.1	2.59	<3	109	<3	0.12	<0.1	17	113	26	3.92	0.11	1.63	857	9	0.02	123	0.05	<2	<2	9	26	<5	324	94
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000

< - Less Than Minimum

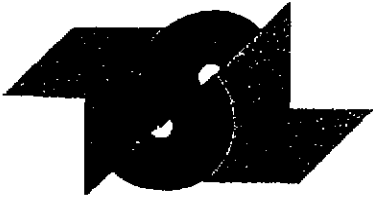
> - Greater Than Maximum

is - Insufficient Sample

ns - No Sample

ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

APPENDIX III  
ANALYTICAL PROCEDURES



# T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET,  
SASKATOON, SASKATCHEWAN  
S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

OreQuest Consultants Ltd.  
306 - 595 Howe Street  
Vancouver, B.C.  
V6C 2T5

Jan.9/90

## 1 - SAMPLE PREPARATION PROCEDURES

### Rock and Core

- Entire sample is crushed, riffled and the subsequent split is pulverized to -150 mesh.

### Soils and Silts

- Sample is dried and sieved to -80 mesh.

## 2 - FIRE ASSAY PROCEDURES

### Geochem Gold (Au ppb) -

- A 30g subsample is fused, cupelled and the subsequent dore' bead is dissolved in aqua regia. The solution is then analyzed on the Atomic Absorption.

### Assay Gold (Au oz/ton) -

- A 29.16g subsample is fused, cupelled and the subsequent dore' bead is parted with a dilute nitric acid solution. The gold obtained is rinsed with DI water, annealed and weighed on a microbalance.

## 3 - Geochem Silver (Ag ppm) -

- A 1g subsample is digested with 5mls of aqua regia for 1 1/2 to 2 hours, then diluted with DI H2O. The solutions are then run on the Atomic Absorption.

### Assay Silver (Ag oz/ton) -

- A 2.00g sample is digested with 15mls HCl plus 5mls HNO3 for 1 hour in a covered beaker; diluted to 100mls with 1:1 HCl. The solution is run on the Atomic Absorption.

## 4 - BASE METALS

- Geochem - A 1g subsample is digested with 5mls of aqua regia for 1 1/2 to 2 hours, then diluted with DI H2O. The solutions are then run on the Atomic Absorption.

- Assay - A 0.500g sample is taken to dryness with 15mls HCl plus 5mls HNO3, then redissolved with 5mls HNO3 and diluted to 100mls with DI H2O. The solution is run on the Atomic Absorption.

con't...





## T S L LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET,  
SASKATOON, SASKATCHEWAN  
S7K 6A4

☎ (306) 931-1033 FAX: (306) 242-4717

Page 2.

5. ICAP Geochemical Analysis -

A 1g subsample is digested with 5mls of aqua regia for 1 1/2 to 2 hours, then diluted with DI H<sub>2</sub>O. The solutions are then run on the ICAP.

6. Heavy Mineral Concentrates -

The sample is initially wet sieved through -1700 micron, then placed on a shaker table. A heavy liquid separation is performed, Methylene Iodide, (S.G. - 3.3); diluted to give a S.G. of 2.96. The heavies were then analyzed for Au by Fire Assay plus an ICAP Scan.

Yours truly,

A handwritten signature in cursive script that reads "Bernie Dunn".

Bernie Dunn

BD/vh

October 10, 1990

TO: Mr. Grant Malensek  
OREQUEST CONSULTANTS LTD.  
306 - 595 Howe Street  
Vancouver, BC V6C 2T5

FROM: VANGEOCHEM LAB LIMITED  
1630 Pandora Street  
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine gold by fire assay method and detect by atomic absorption spectrophotometry in geological samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Extraction

- (a) 20.0 to 30.0 grams of the pulp samples were used. Samples were weighed out using a top-loading balance and deposited into individual fusion pots.
- (b) A flux of litharge, soda ash, silica, borax, and, either flour or potassium nitrite is added. The samples are then fused at 1900 degrees Farenhiet to form a lead "button".

-2-

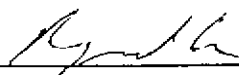
- (c) The gold is extracted by cupellation and parted with diluted nitric acid.
- (d) The gold beads are retained for subsequent measurement.

3. Method of Detection

- (a) The gold beads are dissolved by boiling with concentrated aqua regia solution in hot water bath.
- (b) The detection of gold was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. The gold values, in parts per billion, were calculated by comparing them with a set of known gold standards.

4. Analysts

The analyses were supervised or determined by Mr. Raymond Chan or Mr. Conway Chun and his laboratory staff.

  
\_\_\_\_\_  
Raymond Chan  
VANGEOCHEM LAB LIMITED

October 10, 1990

TO: Mr. Grant Malensek  
OREQUEST CONSULTANTS LTD.  
306 - 595 Howe Street  
Vancouver, BC V6C 2T5

FROM: VANGEOCHEM LAB LIMITED  
1630 Pandora Street  
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine hot acid soluble for 25 element scan by Inductively Coupled Plasma Spectrophotometry in geochemical silt and soil samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" X 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 0.50 gram portions of the minus 80-mesh samples were used. Samples were weighed out using an electronic balance.
- (b) Samples were digested with a 5 ml solution of HCl:HNO<sub>3</sub>:H<sub>2</sub>O in the ratio of 3:1:2 in a 95 degree Celsius water bath for 90 minutes.
- (c) The digested samples are then removed from the bath and bulked up to 10 ml total volume with demineralized water and thoroughly mixed.


-2-

3. Method of Analyses

The ICP analyses elements were determined by using a Jarrell-Ash ICAP model 9000 directly reading the spectrophotometric emissions. All major matrix and trace elements are interelement corrected. All data are subsequently stored onto disketts.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun and his laboratory staff.

  
\_\_\_\_\_  
Conway Chun  
VANGEOCHEM LAB LIMITED