LAKE PROPERTY
ASSESSMENT REPORT
KAMLOOPS MINING DIVISION
92P/9W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,020

ASSESSMENT REPORT OF THE 1990 DRILLING

ON THE

LAKE PROPERTY

KAMLOOPS MINING DIVISION

LATITUDE 51° 32' N
LONGITUDE 120° 22' W

NTS 92 P/9W

FOR

PETER SLOMINSKI (OWNER)
6766 FURRER ROAD
KAMLOOPS, B.C. V2C 4V7

AND

TECK CORPORATION (OPERATOR)
1199 WEST HASTINGS STREET
VANCOUVER,B.C. V6E 2K5

BY

TOR BRULAND, M.Sc., P.Geol., FGAC

APRIL 30, 1990

KAMLOOPS, B.C.

SUMMARY

Teck Corporation optioned the three Lake claims from Peter Slominski on Febuary 2, 1990. The property which covers about 60 hectares, is composed of three two-post claims.

A diamond drill program was completed on the Lake property and the adjoining Haida property, in Febuary and March 1990. Both properties are operated by Teck Corporation. One 200.3 m NQ diamond drill hole was completed on the property at the cost of $ 16,277.47.

The property is situated 100 km north of Kamloops in the Nicola Group of volcanics and sediments. The belt of Nicola Group and Jurassic intrusions south of Kamloops host several significant Porphyry Copper deposits (Highland Valley and Copper Mountain) and a Copper skarn deposit (Craigmont).

Due to extensive overburden coverage the property has had minor previos exploration. Prospecting, soil geochemical survey and magnetometer and VLF-EM geophysical surveys have been completed by the present owner without locating significant anomalies. The present drilling was done to test a chargeability anomaly extending onto the property from the Haida property in the south.

TABLE OF CONTENTS

ILLUSTRATIONS

TABLES

APPENDICES

INTRODUCTION

The Lake Property is located in the central interior of B.C. within the Kamloops Mining Division. It is composed of three two-post claims covering approximate 60 hectares. The claims were optioned from Peter slominski on Febuary 2, 1990. Teck Corporation can earn 100% interest in the property over three years. These claims are jointly worked with the adjoining Haida Property to the south also under optioned to Teck Corporation.

The property is situated in Nicola Group volcanics and sediments adjacent to the northern margin of the Thuya Batholith, which is a favourable host for both porphyry copper and copper skarn mineralization. South of Kamloops a belt of the Nicola Group and Jurassic intrusions host several significant Porphyry Copper (Highland Valley and Copper Mountain) and Copper skarn deposits (Craigmont).

Due to the extensive overburden coverage, this part of the Nicola Group has seen only limited exploration since the discovery of gold and copper mineralization in the area in 1933. Copper and gold mineralization located in the scattered outcrops combined with favourable regional geology, indicates that there is a potential for porphyry copper-gold or copper-gold skarn mineralization on the property.

This report desribes the one NQ diamond drill hole drilled on the property in Febuary and March 1990.

LOCATION, ACCESS, PHYSIOGRAPHY

The Lake Property is located about 100 km north of Kamloops and 20 km west of Little Fort in south-central B.C. (Figure 1). The old workings in the area are located at latitude 51° 32' N and longitude 120° 23' W about 1 km west of the property on NTS map sheet 92 P/ 9W.


BRITISH COLUMBIA
136°
128°
120°
60°
56°
52°
WATLIN
CASSIAR
Kechika R.
Sikanni R.
FORT NELSON
NARE
STEWART
Williston Lake
FORT ST. JOHN
Nass
HAZELTON
PRINCE RUPERT
TERRACE
SMITHERS
KITIMAT
QUEEN CHARLOTTE ISLANDS
PACIFIC OCEAN
Fraser River
PRINCE GEORGE
BARKERVILLE
QUESNEL
LAKE PROPERTY
BELLA COOLA
Chilcotin R.
WILLIAMS LAKE
Fraser River
PORT ALICE
BRALORNE
REVELSTOKE
KAMLOOPS
CAMPBELL RIVER
MERRITT
Okanagan Lake
KELOWNA
KASLO
SQUAMISH
PRINCETON
Vancouver
KIMBERLEY
PENTICTON
KEREMEOS
NELSON
PORT ALBERNI
ROSSLAND
NANAIMO
VANCOUVER ISLAND
DUNCAN
Victoria
TECK EXPLORATIONS LIMITED
LOCATION MAP
SCALE: 1:7,500,000
FIGURE 1

Access to the property is provided by the Taweel Forest Access Road north from the Provincial Highway number 24, which connects Little Fort with 100 Mile House. A network of logging roads which branches off from Taweel Road provides reasonable internal access.

The property is located on an upland plateau region with subdued topography and an elevations of about 1,370 metres. Vegetation consists of a mixture of deciduous and coniferous trees, ranging from mature virgin timber to second generation growth following intermittent logging over several decades. The climate is moderate and does not pose a significant problem for year-round exploration. An electric power line runs parallel with Highway 24, and both Little Fort and 100 Mile House are connected to main railway lines.

CLAIM DATA

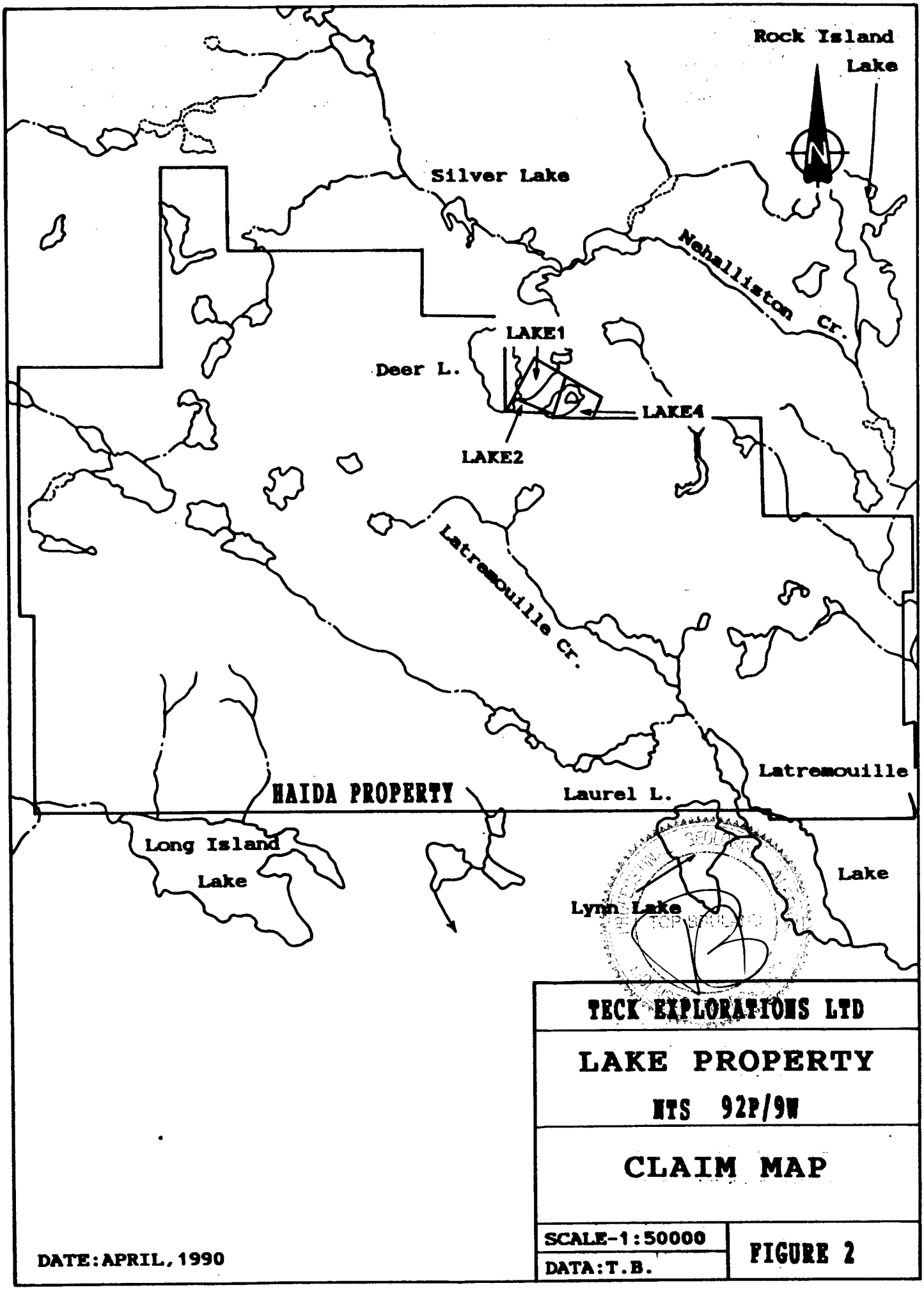
The Lake Property consists of three two-post mineral claims which covers approximately 60 hectares,and is located in the Kamloops Mining Division of B.C., NTS 92 P/W (Figure 2 and Table 1). Teck Corporation has been granted an option to earn 100% interest in the property from the owner, Peter Slominski, over a three year period.

TABLE 1

LIST OF CLAIMS

Claims	Units	Record No.	Expiry Date
LAKE 1	1	6570	Mar. 25/2000
LAKE 2	1	6571	Mar. 25/2000
LAKE 4	1	6572	Mar. 25/2000

The claims have been grouped into the Lake Group for assessment work filing purposes. Pending the aproval of the present assessment work the claims will be in good standing for 10 years, to year 2000.


Rock Island
Lake
N
Silver Lake
Nehalliston cr.
LAKE1
Deer L.
LAKE4
LAKE2
Latremouille cr.
HAIDA PROPERTY
Laurel L.
Latremouille
Long Island
Lake
Lake
Lynn Lake
TECK EXPLORATIONS LTD
LAKE PROPERTY
NTS 92P/9W
CLAIM MAP
SCALE-1:50000
DATA:T.B.
FIGURE 2
DATE:APRIL, 1990

HISTORY

High grade gold skarns were initially discovered in 1933 west of Deer Lake. Reports by the Ministry of Mines indicate that Premier Gold Mines Co. obtained assays of several ounces per ton gold from these showings. A short adit and several small pits in the area probably date back to the mid 1930's.

During the late 1960's and early 1970's,the area south of the Lake Property was explored for porphyry copper mineralization by Anaconda, Rio Tinto and United Copper Co. Work completed at this time included wide spaced grid soil geochemistry; magnetometer, VLF-EM and IP geophysical surveys, limited trenching and some drilling. Anaconda completed six diamond drill holes for about 2,000 feet during 1967 and 1968, but results from this work are not available in the public records.

Barrier Reef Resources completed detailed grid geology, soil geochemistry and EM geophysical surveys 3 km to the southwest during 1972 and 1973. Reports in the public records indicate that three short holes were drilled but no details are available. The surveys indicate a large zone of anomalous zinc, arsenic, mercury and copper geochemistry.

Rio Tinto completed 9 percussion holes for a total of 1,500 feet 3 km to the southeast during 1974 and 1975 without intersecting significant copper mineralization. Neither of these three programs did any systematic gold analyses, and none of the drill holes exceeds 250 feet in depth.

In 1977 Meridian Resources completed soil geochemistry and magnetometer surveys on three detailed grids from one to three kilometre west of the property. Reports indicate the presence of sporadic gold-arsenic-copper anomalies in soils. Meridian percussion drilled 2 holes totalling 455 m, west of Deer Lake, about 1 km from the property. The first hole returned strongly anomalous

copper values below 70 metres, but there is no mention of any gold analyses.

During 1980 Tunkwa Copper Mines Ltd. completed grid soil geochemistry, magnetometer and VLF-EM surveys over 15 square km adjoining the property to the south and west. The lines were spaced 200 metres apart with 25 metre stations. This survey indicated the presence of seven linear gold soil anomalies, four of which could be up to 1 km in length. These gold anomalies are partly coincident with anomalous values in arsenic and zinc. Tunkwa Copper Mines Ltd. chose not to follow up any of these anomalies, drilling instead seven diamond drill holes in the vicinity of the original Deer Lake showings. The results of this drilling are not in the public records.

During 1987 and 1988 Vital Pacific Resources Ltd. completed geochemical soil survey, geophysical IP survey and two diamond drill holes totalling 432.9m in the Heidi Lake area 3 km southwest of the property. The drilling identified the source of an IP anomaly to be a 3 m thick banded siltstone with 5-10% pyrrhotite and trace of chalcopyrite at a depth of over 100m.

In 1988 Vital Pacific Resources Ltd. completed a detailed IP, magnetometer and VLF-EM survey over the Lakeview showing at Deer Lake, 1 km west of the property. Reconnaissance IP, magnetometer and VLF-EM surveys on 200 m spaced lines were completed between Porphyry Lake and Nora Lake to the immediate south of the property. These two surveys outlined a large chargeability anomaly with coincident but spotty anomalous magnetic and VLF-EM values south of Deer Lake, and a semi-circular continuation to the southeast of Deer Lake. This chargeability anomaly was open to the northwest and the southeast.

Follow up work by Vital Pacific Resources Ltd. consisted of 1,462.8 m of diamond drilling in 14 holes on the coincident IP, magnetic and VLF-EM anomalies on the Lakeview and the South Lakeview skarn showings west and southwest of Deer Lake. This drilling intersected .105 oz/ton Au over 4 m in skarn at 16 m depth in hole 88-8 in the Lakeview area; and .169 oz/ton Au over 4 m at 33 m depth in hole 88-9 and .17% Cu over 25 m at a depth of 11 m in hole 88-12 in skarn in the South Lakeview area.

In the fall of 1989 Teck Corporation completed geological mapping, geochemical soil survey an infill IP, magnetometer and VLF-EM in the area of the reconnaissance survey from 1988. Follow-up trenching of coincident IP, magnetic and VLF-EM anomalies located mineralized skarn with up to .3% Cu over 6 m.

OBJECTIVE OF THE CURRENT PROGRAM

Testing of the semi-circular chargeability anomaly south of and extending onto the property, for porphyry copper-gold mineralization was done by drilling. One of the drill holes in this program was located on the Lake Property.

Utilizing two 4x4 trucks work was completed with a crew of four staying at the Lac des Roches Resort in Bridge Lake 20 km west of the property along Highway 24. Supplies were available in 100 Mile House, 60 km to the west, or in Kamloops, 140 km to the south.

REGIONAL GEOLOGY

The regional geology of the area is characterized by a mosaic of fault blocks of sedimentary and volcanic rocks that range in age from Permian to Lower Jurassic. To the south these rocks have been truncated by the northern part of the Thuya Batholith, and in the northwest they have been intruded by fine grained leucogranite and

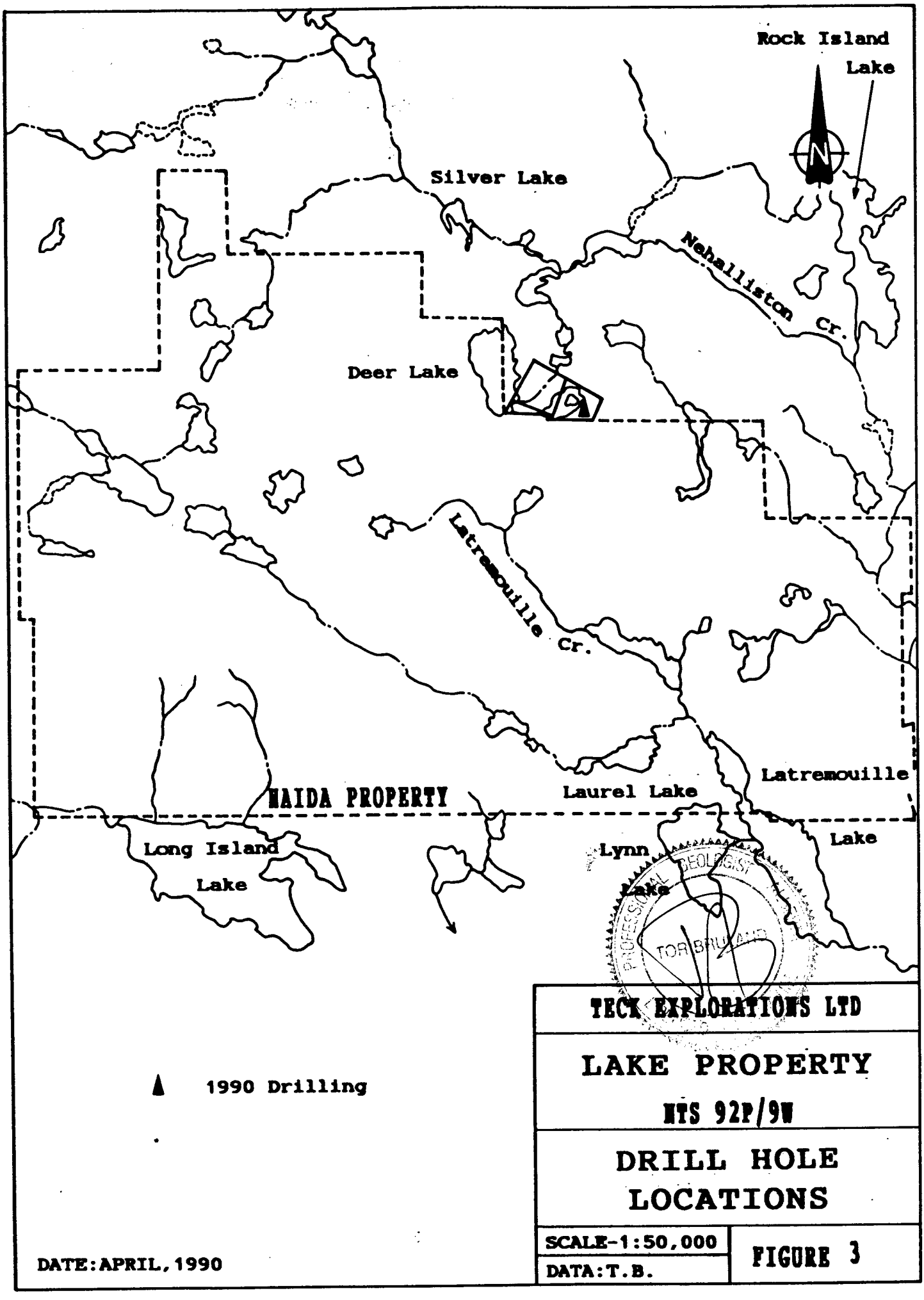
leucosyenite porphyry stocks that may be satellites to the Thuya Batholith (Preto, 1977).

The most widespread rocks in the area belong to the Triassic to Lower Jurassic Nicola Group of massive and fragmental andesite, thin bedded and pyroclastic tuff; interbedded calcareous siltstone, argillite shale and sandstone; and well bedded limestone. The Nicola Group is in fault contact with undivided Jurassic volcanics and sediments, and is intruded by Jurassic syenites, monzonites and diorite stocks believed to be apophyses of the Thuya Batholith (Figure 4). The Nicola Group has been altered and recrystalized to various degrees adjacent to the intrusions. Some of the diorites are probably dykes or sills, but some could be recrystallizated andesite.

The area has been subject to low grade regional metamorphism resulting in widespread chlorite, epidote and carbonate alteration with abundant quartz, carbonate and epidote veins. Hydrothermal alteration is characterized by silicification along pyroxene-rich seams. Local folding in the Nicola Group is developed in response to movements on faults, since this group was not folded by regional stresses.

Mineralization of the area is wide spread and can be divided into three groups. Copper with minor gold, lead and silver have been identified in skarn; lead and silver with minor copper are found in shear zones; and copper in quartz stockwork is found in granites of the Thuya Batholith.

The area has been intensely block faulted following at least one episode of mineralization. The major structural trends are northwest and northeast.


Rock Island Lake
N
Silver Lake
Nehalliston Cr.
Deer Lake
Latremouille Cr.
HAIDA PROPERTY
Laurel Lake
Latremouille Lake
Long Island Lake
Lynn Lake
1990 Drilling
TECK EXPLORATIONS LTD
LAKE PROPERTY
NTS 92P/9W
DRILL HOLE LOCATIONS
SCALE-1:50,000
DATA:T.B.
FIGURE 3
DATE:APRIL,1990

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

28 — Till, gravel, alluvium.

TERTIARY

MIOCENE AND/OR PLIOCENE

25 — Plateau lava, olivine basalt.

EOCENE AND OLIGOCENE KAMLOOPS GROUP

22 — SKULL HILL FORMATION: Dacite, trachyte, basalt, andesite, rhyolite.

CRETACEOUS

RAFT AND BALDY BATHOLITHS

20 — Biotite quartz monzonite and granodiorite; minor pegmatite.
20b – aplite, leuco quartz monzonite and granite.

JURASSIC

SINEMURIAN TO MIDDLE JURASSIC

16 — Porphyritic augite andesite breccia and conglomerate.

15 — Andesite arenite, siltstone, grit, breccia and tuff.

TRIASSIC OR JURASSIC

THUYA AND TAKOMKANE BATHOLITHS

14 — Hornblende biotite quartz diorite and granodiorite, monzonite, gabbro, hornblendite.

13a — Syenite and monzonite.

TRIASSIC

NICOLA GROUP

11 — Augite andesite flows and breccia, tuff, argillite, greywacke, limestone.

10 — Shale, argillite, phyllite, siltstone, limestone.

PERMIAN

4 — Basic volcanic flows, tuff, chert, limestone, argillite.

PENNSYLVANIAN AND PERMIAN

3 — Volcanic arenite, greenstone, argillite, phyllite, minor quartz mica schist, limestone, basaltic and andesitic flows, amphibolite, conglomerate and breccia.

MISSISSIPPIAN AND/OR LATER

SLIDE MOUNTAIN GROUP

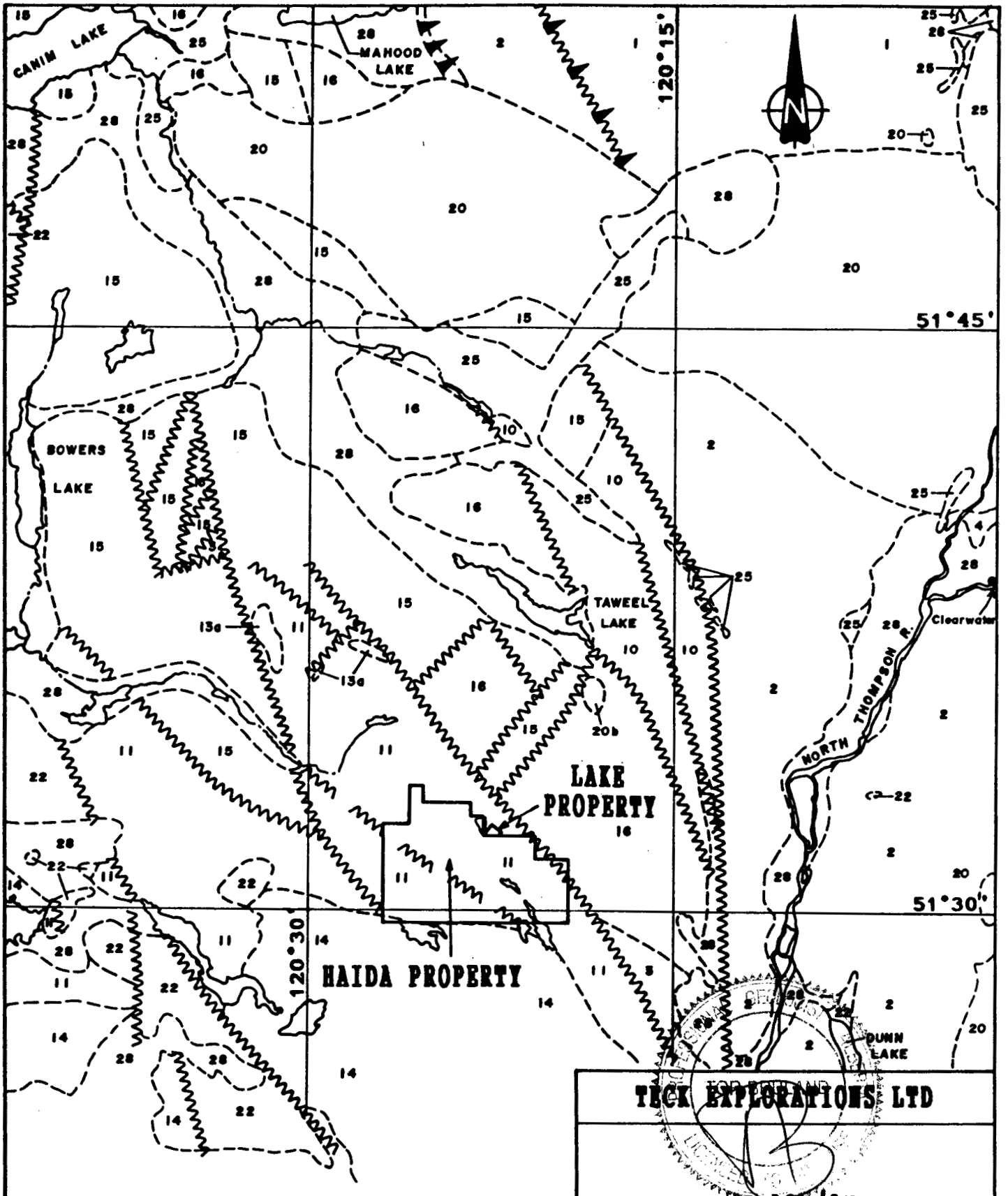
2 — FENNELL FORMATION: Pillow lava flows, greenstone, argillite, chert, minor amphibolite, limestone and breccia.

WINDERMERE OR CAMBRIAN AND LATER

KAZA OR CARIBOO GROUP

1 — Feldspathic quartz mica schist, quartzite, phyllite, marble, greenstone, amphibolite.

LEGEND FOR FIGURE 4



Geology from:GSC map 1278A- Bonaparte Lake (92P). By R.B.Campbell & H.W.Tipper (1964,1965).

TECK EXPLORATIONS LTD

NTS 92P/9W

REGIONAL GEOLOGY

SCALE-1:250,000

DATE:APRIL, 1990

FIGURE 4

PROPERTY GEOLOGY

The property is covered by a relatively thin layer of glacial material which ranges in thickness from about 1 m to about 15 m obscuring most of the bedrock. The general direction of the ice movements from the last two major ice ages are to the south and southeast from the Cariboo Mountains, with the southeast flow predominant across the property. Numerous augite porphyry erratics are found.

The glacial overburden coverage is estimated to be about 98% with the outcrops located on the hill southeast of Pauline Lake.

The property is believed to be completely underlain by a sequence of andesitic flows, tuff, argillite, siltstone and chert of the Triassic to early Jurassic Nicola Group (Figure 5). These rocks have subsequently been intruded by the Jurassic Thuya Batholith and its associated satellite stocks which range in composition from granodiorite to diorite.

Lithologies on the area have a general northwest to southeast strike with a steep dip to the southwest. Although no systematic mapping have been done on the property two rock types have been identified, andesite and diorite.

MINERALIZATION

Historically the belt of Nicola Group and Jurassic intrusions south of Kamloops have hosted both porphyry copper and copper skarn deposits. Both types of mineralization have been identified in the Nicola Group in this area. Previous work has located >1% Cu in massive pyrrhotite skarn, as well as up to .2 oz/ton Au in garnet-diopside skarn over mineable widths.

DIAMOND DRILLING

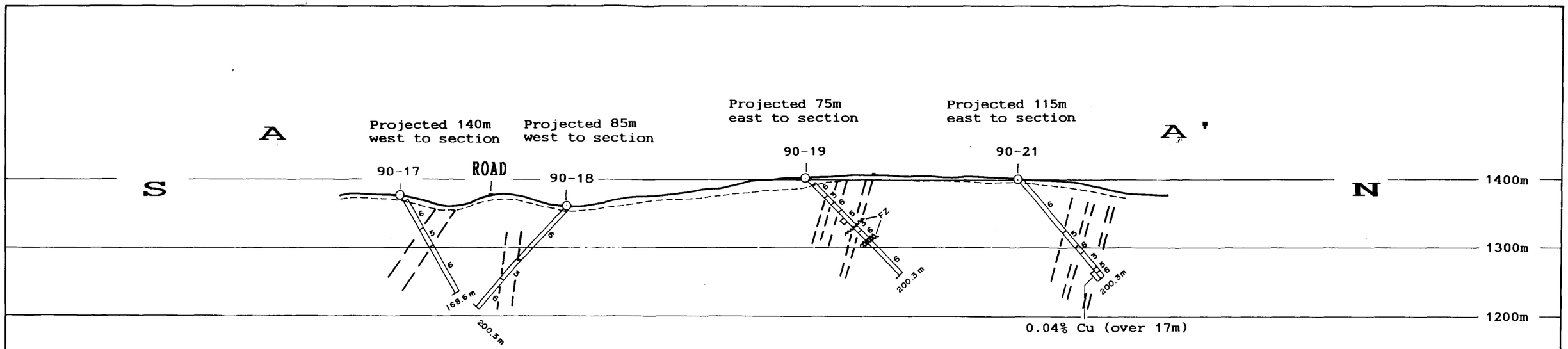
In the spring of 1990 one diamond drill hole for 200.3 m was drilled on the property southeast of Pauline Lake (figures 3 and 5, sheet 4). The hole was located south of a chargeability anomaly and drilled to the north testing for porphyry Cu mineralization.

The drilling was done by L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. using a Longyear super 38 diamond drill extracting NQ-size drill core. The core was logged and split at Lac des Roches Resort 20 km west of the property along Highway 24. It was done in 3 m sample intervals. A magnetometer survey was done on the core in conjunction with the logging using an EDA k-2 Magnetic Susceptibility Meter. The drill log is enclosed in Appendix II. All the core was shipped to Barrier where it is stored inside a fenced area together with the core from the Haida Property adjoining the Lake Property to the south and west.

A total of 65 samples were collected. All samples were sent to Chemex Labs Ltd. in North Vancouver where they were assayed for gold by standard fire assay with atomic absorption finish and for 9 elements (Ag, Co, Cu, Fe, Mn, Mo, Ni, Pb and Zn) by using a nitric-aqua-regia digestion and analyzed by inductively coupled plasma spectroscopy (Appendix II).

Drill hole 90-21 was collared in diorite and intersected endoskarn between 106.1 and 142.3 m, andesite porphyry between 147.6 and 180.9 m and endoskarn again between 180.9 and 186.5 m. The hole was completed in diorite at 200.3 m. Analytical results returned background values for Cu and Au.

The above described drill holes have been projected on cross section 1,075E (Figure 6), and the limited data indicate that the diorite could be in the form of sills rather than dykes or stocks.



2020

LEGEND

1	Argillite
2	Limestone
3	Andesite
4	Hornfelsed sediments
5	Skarn
6	Diorite
7	Granodiorite
8	Amphibolite
FZ	Fault zone

TECK EXPLORATIONS LTD

LAKE PROPERTY

KAMLOOPS MINING DIVISION, B.C.

NTS 92P/9

X-SECTION A-A'

1,075E

LOOKING N270E

SCALE: 1:5000	DATE: APRIL, 1990
DATA: T. BRULAND	FIGURE 6
DRAWN BY: P. HAILLOT	

TABLE 2

DRILL HOLE DATA

Drill Hole#	Co-ordinates	Grid Locat.	Elev-vation	Azimuth	Dip	Depth	Target
90-21	10,504.4N 10,776.7E	115.5N 998.5E	1,409.5m	N001.5E	-46.5	200.3m	Porphyry Cu

The drilling of this potential porphyry Cu system located fresh diorite with chlorite, minor sericite and epidote alteration. The chargeability anomaly is explained by the generally high pyrite content of 2-5%. This indicates that the present surface is located low in the Phyllic and Argillic alteration halos on the border of the pyrite shell in the porphyry copper ore deposit model. The presence of pyrite and magnetite in the endoskarn suggest that the drilling was done peripheral to a possible ore shell at the very bottom of a possible porphyry copper system.

CONCLUSION AND RECOMMENDATION

Work in this area has found that a thick extensive clay layer in the overburden limits effective exploration methods to geophysical surveys and drilling.

The present program has adequately tested and explained the chargeability anomaly southeast of Pauline Lake, which was found to be a low level barren pyrite halo in a porphyry Cu deposit model. Further exploration should be directed toward locating a possible ore shell associated to the pyrite mineralization.

REFERENCES

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14. Westerman, C.J. (1987a) - Geochemical report on Fort 9 Mineral Claim, for Electrum Resources Ltd. and Vital Pacific Resources Ltd., filed for assessment credits June 1987

15. Westerman, C.J. (1987b) - Geological, Geochemical and Geophysical report on the Haida Gold Property, for Vital Pacific Resources Ltd., filed for assessment credits August 1987

16. Westerman, C.J. (1988a) - Assessment Report on the Phase I Diamond Drilling Program on the Haida Gold Property for Vital Pacific Resources Ltd., November 15, 1988

17. Westerman, C.J. (1988b) - Assessment Report on the Phase II Diamond Drilling Program on the Haida Gold Property for Vital Pacific Resources Ltd., December 15, 1988

18. The following B.C.D.M. Assessment Reports are pertinent to the area of the Haida gold property: AR#905, 907, 910, 981, 1061, 1123, 1169, 1690, 2712, 3349, 3945, 4028, 4260, 4262, 4264, 4678, 4684, 4835, 4947, 5424, 5425, 5734, 6586

19. The mineralization of the Lake Property area is referred to in the following B.C. government publications: M.M.A.R. 1930 - p.191, 1966 - p143, 1967 - p.133, G.E.M. 1970 - p.312, 1971 - p.334, 1972 - p.320, 1973 - p.275, 1977 - p.E179.

CERTIFICATE

I, Tor Bruland, of the city of White Rock, Province of British Columbia, do hereby certify:

1. I am a Consulting Geologist with Cascade Geological Services, 16126 12A Avenue, White Rock, B.C. V4A 6V9 on contract with Teck Explorations Ltd.,960-175 Second Avenue, Kamloops, B.C. V2C 5W1.

2. I am a graduate of the University of Bergen, Norway, with a Cand. Mag. (B.Sc.) degree in Geology (1977), and a Cand. Real. (M.Sc.) degree in Geology (1980).

3. I am a Professional Geologist licensed in the Province of Alberta with The Association of Professional Engineers, Geologists and Geophysicists of Alberta.

4. I am a registered Fellow of the Geological Association of Canada.

5. I have been practising my profession for 13 years, in Norway between 1977 and 1980, and since 1980 in British Columbia, Yukon and the western U.S.

6. This report is based on my own observations and the observations of people under my supervision on the Haida property between September 20, 1989 and March 28, 1990.

7. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Corporation, Vital Pacific Resources Ltd. or Electrum Resources Corporation or any of its affiliates.

8. I give my consent to the use of my name and this report for qualification requirements but not for advertising purposes.

DATED at White Rock, British Columbia this 30th day of April 1990.

TOR BRULAND, M.Sc., P.Geol., FGAC

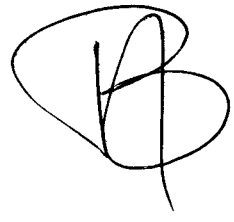
APPENDIX I

STATEMENT OF COST

STATEMENT OF COSTS

Geology Salaries

T. Bruland, Project geologist 3 days @$192.5	577.50	
P. Roberts, Geologist 4 days @$185.90	743.60	
G. Lovang, Field Technician 4 days @$178.10	712.40	
K. Chubb, Field Technician 3 days @$156.00	468.00	2,501.50
Diamond Drilling: 657 feet @ $18.05/foot		11,859.58
Assaying: (65 drill core samples @ $14.11/sample)		917.28
Transportation and Shipping		3.36
Room and Board 12 ¼ man days @ $53.67/man day		657.47
Office and Field supplies, equipment rental		246.43
Office cost, Phone, Mail etc		74.81
Drafting, Maps, Prints, Supplies etc		17.04
		$ 16,277.47



APPENDIX II

DRILL LOG AND ASSAY CERTIFICATE

TECK EXPLORATIONS LIMITED — HAIDA **PROPERTY** — SHEET 1 OF 13

HOLE No. 90-21

		DEPTH	DIP	AZ.				
	92P/9W	0.0	-46.5°	N06½E	LENGTH : 200.3m	GRID COORD : 115.5N / 998.5E	LOGGED BY:	D. Rob[illegible]
…ATION :	N of Iron Lake	195.7m	-47°	N022	ELEVATION : 1,409.5m	CORE SIZE : NQ	DATE :	Feb 25 – March 1/90
…E COLLARED :	Feb 23/90 5AM				NORTHING : 10,504.37	SCALE OF LOG :		
…E COMPLETED :	Feb 25/90 11AM				EASTING : 10,776.74			

FROM–TO METERS	ROCK DESCRIPTION	ANGLES / VEINS	GRAP.	PY	CPY	PYRR.	cp	?	CHL	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	MAG (AV)	MAG (High)	Meter Block	% Est. Core Rec.	FROM / SAMPLES No. / TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
…3.6	CASING (OVERBURDEN)		3.0	10					40	5	60	20		15	.01	.31	5.2	50%	3.6 / 473993 / 6.0	2.4m	123	5	<.5
…–6.6	Altered Diorite – fg grey mottled str silic'd diorite minor qtz porphyblasts 2-4 mm across str calcite veining, all orientations 10-20 per 100cm, at least 2 generations. minor epi alt on [illegible] calcite alt'n [illegible] limonitic to 6m depth fg euh py diss'n @ 5.8m 3cm qtz V. 40° to CA		6.0	2					20		10		3	5	.06	.48	7.0 / 8.8	94% / 78%	473994 / 9.0	3.0	112	<5	<.5
…–9.2	DIORITE, mg weakly porph with euhedral hbl phenos – minor qtz cal veins cut rel fresh.		9.0	10					60		60			15	.01	.09	11.3 / 11.9	97% / 88%	473995 / 12.0	3.0	150	90	<.5
…–12.4	ANDESITE – dk green fg str alt'd andesite fg euh py diss'n [illegible] displays w developed tectonic	CLEAV/FOL 45	12.0	10			tr		60		60			15	.01	.08	14.3	100%	473996 / 15.0	3.0	171	85	<.5
12.0 / 12.4	[illegible] fabric 45 to CA defined by chlorite/pyrite enriched bands. v weakly folded FA perp to SA. py concentrations in calcite rich bands to 7mm max ave 3-4mm [illegible] diorite [illegible] limonitic fracture zone, broken core 5cm. 40 cm Diorite porph as above.		15.0																				
	with soft dk green chl 1mm × 5mm as en echelon filling, with minor fg py gradational contacts	45 to CA		8					40		50			15	.01	.35	17.4	95%	473997 / 18.0	3.0	179	5	<.5
…–20.5	Diorite porph, as above but more altered with more chl, py, calcite segregation banding, more texturally 'obliterated' dioritic over short intervals 10-20 cm highly fractured / healed fg py located along microfract's, chl breccia		18.0	5	tr				60		30			15	.03	.10	20.4	99%	4739?3 / 21.0	3.0	281	30	<.5
…1.1	10cm cal chl shear, minor fg py diss'n and foliation plane related		21.0																				
…1.1	locally 10% mm-2 [illegible]	[illegible] trace [illegible]		5					60		10			10	.01	.03	23.5	96%	4739?? / 24.0	3.0	164	<5	<.5
	70cm 'spotted' Diorite 0.5-1cm blk hbl? secondary alt'd blebs																						
	– cont'd highly variable f-mg and/dior		24.0																				

PROPERTY HAIDA GOLD HOLE No. 90-21

FROM TO METERS	ROCK DESCRIPTION	ANGLES: CONTACT	BEDDING	CLEAV FOL	FAULTS
	numerous calcite vnlets.				
@18.9	-1.3m diorite porph predominates				
	m-str ckl bx, microfrac's trend	60-90°			
	py ± minor cpy commonly cut core at				
	10-30° to CA.				
@20.5	SHEAR ZONE - 60cm ... upper	60			
	contact shear base contact 60° to CA				60°
	- str ckl bx, shear 20-30° to CA,				
	str chl cal ser swirling, str cpy				
	enrichment @ 20.75 in chl, cal grnsts				
	20.8-21.1 int ckl bx, porph grn swirled				
	rock				
21.0-22.6	DIORITE Porph. str cal Veins, discord.				
	X-cutting Vn relationships. from 20°-90°				
	to CA, minor diss ± py				
22.6-63.0	And/Diorite str ckl bx, mixed				
	grainsizes cut by 2 str episodes of				
	chl cal, felsic microfrac's. diss to euh				
	py 1-2% likely represent. alt'd				
	diorite with 50-100% local				
	alt'n haloes.				
@27.3	weak orientation of grains 45° to CA				
	seen in 20cm length of rel fresh				
	dior.				
@30.7	90cm dk grey str calcite alt perv				45°
	with fg py diss'd locally 30%				
	@31.4 5cm cal, chl, py breccia				
	30% py mg 2-3mm 45° to CA				
to 34.1	occasional small felsic enriched zones				
	with 30% mafic content ≤ 3cm irreg.				
	gradational contacts, also occasional				
	hbl alt'n spots 5-8mm locally 10%				
@34.6	30cm hetero mix of cal stringers,				
	discont chl veins, abund fg euh py,				
	1cm bx'd felsic blebs, str fabric 35		30°		
	to CA. str ckl bx'd				

GRAP (m)	PY	CPY	PYRR.	CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	MAG (AC)	MAG (High)
24.0–27.0	2			60		15			20	.00	.03
27.0–30.0	5			60		15			20	.01	.02
30.0–33.0	10			30		15			20	.01	.02
33.0–36.0	8			70		15			30	.03	.08
36.0–39.0	3			80	10	15			50	.03	.07

Meter Block	% Est. Core Rec.
25.9	93%
26.5	94%
	91%
29.6	
	99%
32.0	
	100%
34.1	
	30%
35.7	
	99%
37.8	
38.7	94%

FROM	SAMPLES No.	TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
24.0	474000	27.0	3.0m	167	10	<.5
	474001	30.0	3.0	187	25	<.5
	474002	33.0	3.0	200	15	<.5
	474003	36.0	3.0	194	20	<.5
	474004	39.0	3.0	119	<5	<.5

PROPERTY HAIDA GOLD HOLE No. 90-21

FROM TO METERS	ROCK DESCRIPTION	ANGLES: CONTACT	BEDDING	CLEAV FOL	FAULTS	VEINS: METERS	TYPE	THICK	ANGLE	GENERAT.
	felsic blebs appear to be boudinage									
	Vn Sub parallel to CA									
to 35.6	Diorite porph mod chl bx, cal vnlets									
@ 35.6	30cm hetero mix, swirled chl, cal,									
	felsic segregations, chl bx .. above									
36.0 –	Basl. dyke fg dk grn irreg shape blocky									
	upper contact, v uniform									
	rock, minor cal, py microfilling,									
	intense chl, ser alt'n, mod epidote									
@ 38.1	2cm mass chl, ser, cal. vn 25° to CA			25°					25	2
	– occasionally seen 2-4mm 5-60°								60	1
	vnlets or isolated swirls, cal enriched									
	zones, chl commonly 4x5mm									
	massive soft dk grn blebs.									
@ 46.0	10-15cm rubble									
@ 46.6	2-3 cm soft chl gouge, minor rubble									
48.9-49.6	Broken Core, mod clay alt'n									
@ 50.3	Calcite Vn 1cm wide							2cm	40°	
@ 51.5	calcite vn 0.5 cm 5-8% py									
	tr cpy, py conc increases to									
	5-10% locally, mod calcite									
	alt'n peri of vn.									
53.2-54.7	int chl, ser alt'd core, v broken									
@ 54.7	Breccia Qtz, cal matrix supporting									
	silicified andesite 1x2cm angular									
	frags									
54.9-56.8	3 CM Qtz Vn, multigenerational Qtz flooding									

GRAPH	PY	CPY	PYRR.	CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	MAG (KV)	MAG (High)	Meter Block	% Est. Core Rec.	FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
39.0														39.0				
39.0–42.0	5			80	10	20			50	.04	.07	39.6	100%	474005	3.0	103	<5	<.5
												41.8	95%	42.0				
42.0–45.0	3			90	10	25			50	.03	.17		95%	474006	3.0	96	<5	<.5
												44.8		45.0				
45.0–48.0	3			90	5	20			50	.05	.11		83%	474007	3.0	95	<5	<.5
												46.3						
												46.6	100%					
												47.2	100%	48.0				
48.0–51.0	3			90	3	20		5	50	.02	.05		76%	474008	3.0	96	<5	<.5
												49.1						
												49.4	50%					
												49.7	50%					
												50.9	68%	51.0				
51.0–54.0	5	tr		90		30		5	50	.10	.46	51.5	80%	474009	3.0	152	<5	<.5
												52.4	97%					
												53.0	70%					
												53.6	60%	54.0				
54.0–57.0	8			90		20	30		20	.02	.06	54.3	19%	474010	3.0	162	<5	<.5
												54.9	50%					
												55.5	68%					
												56.4	67%					
													92%	57.0				

PROPERTY HAIDI GOLD HOLE No. 90-21 SHEET 2 OF 13

FROM TO METERS	ROCK DESCRIPTION	CONTACT	BEDDING	CLEAV FOL	FAULTS	METERS	TYPE	THICK	ANGLE	GENERAT.
	extending into wall rock, tends									
	to str sil^d pale grn mottled,									
	swirled rexllization to ~57.0m									
	diss^d fg py 10-15% abund. pale grn sil^d									
	& rough fg phenos (2-3%) swirled with									
	dk chl^c bands. Possible altered									
	felsic dyke.									
@56.9	mod cal veining, 30% f-mg py									
	5cm enriched zone									
@57.1	1cm qtz stringer 30% ce mg				40°				30	
	py 5%, crosscuts cal. chl ser									
	foliation									
@57.2	Altered Andesite, dk grn, v str									
	chl/cal altered, speckled with									
	calcite 1-2mm spots, frequently weakly									
	sheared, also str cal veining, f-mg	, locally 10%, av. 3%								
	euh py esp. conc in calcite rich blebs,	veinlets, enriched zones								
57.5-58.1	numerous pale yellow sericite blebs									
	aphanitic & calcitic, 1cm fault									
	offset movement subparallel to CA									
@61.7	Diorite fragments str absorbed.									
	gradational edges in str alt'd									
	calcitic grnstn, minor felsic									
	blebs, enriched zones, mod. sil^d									
	str sericite alt^n.									
63.0-98.4	DIORITE, mg pale grey green,									
	equig. granitic text. Str sericitization of plag.									
	& str chl 5-8% diss euh. py.									
	mod cal ff hairline fracts									
@64.6	10cm rounded rubble frags.									
@64.6	Felsic component increases to									
	40%-50% less sericite alt^n,									
	str silica flooding. minor									
	epi as 1cm irreg blebs									
	2.2m long sharp lower contact	45°								

GRAP	PY	CPY	PYRR.	CHL.	EPIDOTE	CARB.	SILICA	CLAY	Sericite	MAG (AJ)	MAG (HyGA)	Meter Block	Est. Core Rec. %
57.0	5			90	tr	60	3		50	.08	.36	57.3	100%
												58.8	
												59.7	90%
60.0	5			60	tr	40	5		50	.04	.07	61.0	92%
												61.6	97%
													91%
63.0	5			40	1	30	20		20	.04	.09	63.4	
												64.6	100%
												66.1	69%
66.0	5			60	1	10	5		15	.03	.07	66.4	99%

ASSAYS

FROM / SAMPLES No. / TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
57.0 / 474011 / 60.0	3.0	120	10	<.5
474012 / 63.0	3.0	169	5	<.5
474013 / 66.0	3.0	69	10	<.5
474014 / 69.0	3.0	95	10	<.5

PROPERTY HAIDA HOLE No. 90-21 SHEET 5 OF __

FROM TO METERS	ROCK DESCRIPTION	VEINS ANGLE
66.8-	- DIORITE : str alt'd sericitic, chloritic f-mg abundant calcite Vning, irregular swirls, multistage Vns minor f-mg euh diss py enriched in str chl bands (chl alt'd halos)	50°
@ 69.0	DIORITE DYKE, cg, minor ep. 2 dykes 3-4 cm each.	
@ 69.1	10 cm massive andesite porph. minor fg diss epidote, dk grn str chl	
@ 69.6	20 cm Plag Porph dyke fg gry groundmass 1-2 mm plag phenos upper contact 80° razor sharp lower contact 55° razor sharp	80° / 55°
	2 cm calcite Vn in Footwall next to diorite host. Str ff epi in dyke, str sil'H	
@ 69.9	10 cm mafic and porph dyke str chl, mod ser. minor fg py rich stringer 35° X-cuts and found in calcite stringers	35°
@ 71.0	10 cm Hbl Porph dyke fg euh hbl vfg matrix homo grey with str calcitic segregation in FW of 1 cm calcite fract. pale grey patch.	
@ 72.1	40 cm felsic bands 2-10 cm wide 2-10 cm wide grey'd with str carb. minor epi alt'd minor 1-3 mm mass chl wisps in str alt'd f-mg diorite	
@ 73.2	10 cm dk grn str chl microdiorite minor epi enriched blebs ≤ 1.0 cm	
74.2-88.5	DIORITE PORPH mg Cg-Hbl phenos ≤ 4 mm possibly pseudo after Px euh pseudomorphs. minor fg mafic rich bands 3-5 cm. represent alt'd haloes around calcite/sericite enriched fluid channels. Cg enriched zones cumulate in nd ves	
@ 76.7	8 cm epi band in FW of 0.5 cm cal. vn.	78
@ 78.0	grades into Cg Diorite rel fresh	

.. footwall

GRAP	PY	CPY	PYRR	CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	MAG (tot)	MAG (hcl)
69.0–72.0	5			70	3	20	20		40	.05	.15
72.0–75.0	2			70	4	10	15		40	.06	.18
75.0–78.0	2			70	4	10	10		40	.03	.61
78.0–81.0	1		1	40	4	5	10		30	.02	.04

Meter Block	% Est. Core Rec.
71.6	
72.2	83%
	100%
75.3	
	95%
78.0	
78.3	93%
79.2	70%
79.9	100%
	93%
81.4	

FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
69.0				
474015	3.0	151	<5	<.5
72.0				
474016	3.0	216	10	<.5
75.0				
474017	3.0	175	5	<.5
78.0				
474018	3.0	74	<5	<.5
[illegible].0				

PROPERTY HAIDA HOLE No. 90-21

FROM TO METERS	ROCK DESCRIPTION	CONTACT	BEDDING	CLEAV FOL	FAULTS	VEINS: METERS	TYPE	THICK	ANGLE	GENERAT.
	-minor chl, calcite stringers ± epidote									
	generally cut core 70-90° t. CA tr-1% PE Po									
@80.3	zoned cal, chl, minor diss'd py									
	vnlet sub parallel to CA 2mm wide									
@81.6	DK grn-grey mottled int sericilized calcified									
	diorite; str chl'd, sil'd. 1.0m in length									
	upper contact sharp 80°, lower grad 80°	80°								
	80° fg euh diss py 5-8% locally									
	str fract'd, discont, faulted cal, ser vnlets									
@84.9	35cm Microdiorite porph dyke									
	pale grey, 10% 1x2mm phenos									
	1% diss'd fg blebs Po, tr cpy.									
	upper contact gradational, lower,									
	sharp 80°	80°								
Cont'd	DIORITE becomes porph - 15% again									
	phenos as a result of decrease in									
	plag xl size, str fract'd, minor									
	felsic ff'ing in calcite									
88.5-91.5	str Alt'd f-Mg Diorite, w									
	plag phenos variable silic'd									
	numerous fg dk grn andesitic bands									
	1-3 mm clots of Po enriched blebs									
	1-3 euh py xl's 3-5% ave locally									
	locally 10%									
@88.7	5cm cal vn, minor wisps are chl									
	10% euh py conc'd in 10cm alt'n									
	halo.									
@88.9	20cm bx'd felsite, sericite rich									
	network of micro vnlets. minor fg									
	gnt enrichment, diss'd euh py									
	1-2% upper contact	25°								
	lower contact v irregular									
@89.1	Plag Porph dyke grad contacts									
@89.7	str sil'd qph w relict [illegible] plag									
	phenos diss'd fg py 10% [illegible] 30cm									
@89.9	20cm diorite grad margins									
@90.1	30cm fg hbl porph andesite w									
	amyg-cal vesicals upper 15cm									

GRAP (m)	PY	CPY	PYRR.	CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	GARNET	MAG (Av)	MAG (High)	Metal Block	% Est. Core Rec.	FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	Au ppb	AG G.T
81.0 – 84.0	4		1	50	5	15	20		50		.02	.04	81.4	98%	81.0 / 474019 / 84.0	3.0m	80	<5	<.5
84.0 – 87.0	3	tr	1	30		5	20		30		.02	.04	84.4	92%	474020 / 87.0	3.0	114	<5	<.5
87.0 – 90.0	5		1	50		10	25		50		.05	.18	87.2 / 87.3	100% / 99%	474021 / 90.0	3.0	150	10	<.5
90.0 – 93.0	5	tr	1	50		15	40		30	tr	.05	.18	90.5	95%	474022 / 93.0	3.0	169	10	<.5
93.0 –													93.6						

PROPERTY HAIDA HOLE No. 90-21 SHEET 7 OF 1[illegible]

FROM TO METERS	ROCK DESCRIPTION	ANGLES: CONTACT	BEDDING	CLEAV FOL	FAULTS	VEINS: METERS	TYPE	THICK	ANGLE	GENERAL	GRAP	MINERAL %: PY	CPY	PYRR	ALTERATION %: CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	MAG (Lo)	MAG (High)	Meter Block	% Est. Core Rec.	ASSAYS: FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	Au ppb	Ag G/T
@90.8	Cont'd lower contact sharp 65cm diorite varies from Px Porph at upper portion to Plag porph near lower contact v gradational center of unit equigranular. lower contact irregular, jagged against 3cm felsite str. sil'd	90°																											
91.5-95.7	grygrn mixed str sil'd and/dior v str skl bx, minor hbl porph. dior, and, felsite frags, grad. contacts all subsequently bx'd, sil'd f-mg euh py 2-3% concent in dk grn chl's segregations. virtually absent in felsite. 1% Po along blebs, minor " to get replacement. to sey gradational lower boundary																									93.0				
95.7-99.4	Diorite fg. green grey minor ck/bx with calcite, sericite alt'n/vnlets. v.fg diss'd py										96.0										.03	.10			474023 96.0	3.0	140	5	<.5
99.4-108.8	Augite porph Dyke 30-40% phenos 2x3mm in dk grn chl ser groundmass											1			50		10	10		50	.02	.11	96.6	79%	474024 99.0	3.0	91	20	<.5
101.2	20.cm massive qtz. cal. clay gouge banded vn in 1-2cm bands 60° to CA calcite forms coarse 1cm long needle clusters in milky grey qtz								60		99.0	1			50		10	40		30	.02	.07	99.7	85%	474025 102.0	3.0	75	<5	<.5
101.4	2m Contact border phase 2-3% Aug. pheno's in aphanitic int silic'd grey-green and, weakly bx'd with 5cm dioritic fragments. minor felsic stringers v weakly calcitic vnlets										102.0	tr			50		90	50		5	.01	.04	102.7 103.0 [illegible] [illegible]	100% [illegible] [illegible]	474026 105.0	3.0	14	<5	<.5
103.4-104.7	Limestone: milky grey aphanitic massive recrystallized int. silicified to MARBLE weakly calcitic dolomitic? strongly bx'd										105.0												104.5 104.9	14% 65%					
104.7-106.1	DIORITE DYKE. intensely silicified V faintly Porph with fg anhedral phenos fg diss'd euh py										108.0	5					95	60		?	.01	.06	105.8 106.1 106.7	44% 70% [illegible] 35%	474027 108.0	3.0	28	<5	<.5

int = intensely

PROPERTY HAIDA HOLE No. 90-21 SHEET 8 OF 15

FROM TO METERS	ROCK DESCRIPTION	ANGLES: CONTACT	BEDDING	CLEAV FOL	FAULTS	VEINS: METERS	TYPE	THICK	ANGLE	GENERAT.
106.1-110.9	Marble: dolomitic, gph. pale grn, strongly silicified moder. calcitic str ckl bx, minor chl. diss euh py 1-2%. mcrobx									
110.9-115.0	Plag Porph. mod. gry intensely silicified weakly spotty with 5-10% locally euh diss and ff py chains, str sericitic possibly alt'd Plag Porph diorite.									
115.0-120.3	SKARN - aphanitic grey int silicified marble minor calcite perv. str ckl bx, minor int altered diorite texture over several cm. mod chl 'fract' series, has waxy feel on fract. surfaces weak calcyn banding 80% CA		80							
	diorite dykes 10cm ave. 40% CA diss'd fg euh py x's with tr cpy assoc'd.							40°		
@120.8	GARNET-DIOPSIDE ENDOSKARN bx'd upper contact intense chlorite, minor epidote alt'n garnet str bx'd clasts with 2mm chl alteration rim 5x10cm. str sil'd calcite, chl, ser matrix. plus late stage pure calcite irreg. fract filling to 1cm wide in places mag, py f-mg ff'ing closely assoc'd with garnet rich zones coarsens to 2mm cubes in dk grn chl-serpentine									
@121.4	30cm silicified gnt zone with massive 8cm mag, Po band at 121.6, Po irreg ff'ing in mag. sulphide/oxide in gnt truncated at Gnt/silic'd chl matrix boundary.									
@121.7	6.0cm sil'd, swirled grn aph, bx'd matrix, minor gnt blebs < 0.5cm.									
@121.9	30cm gnt zone as above, sulphide ff'ing Po appears as euh. x'ls, replacing Py									
@122.2	90cm int sil'd bx'd gry-green swirled rock. v faint relict plag occasionally seen possible altered PP dyke. fg diss'd py locally 15%									

GRAPH	PY	CPY	PYRR.	MAG	CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	GARNET		MAG (Av)	MAG (High)	Meter Block	% Est. Core Rec.	FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	Au ppb	AG g/t
108.0	1				80		90	30		50			.03	.07	108.8 109.4 110.9	50% 70%	108.0 474028 111.0	3.0m	46	80	<.5
111.0	1				80		90	30		50			.01	.07	111.9 113.4	47% 75%	474029 114.0	3.0	58	25	<.5
114.0	3	tr			80		90	30		50			.02	.09	114.6 114.9 116.1 117.0	92% 113% 83% 71%	474030 117.0	3.0	61	15	<.5
117.0	3	tr			80		80	30		50			.01	.05	117.3 118.3 118.6 119.2 119.8	114% 45% 33% 83% 83%	474031 120.0	3.0	75	5	<.5
120.0	10	tr	10	5	10		80	70		5	40		.70	2.50	122.5	99%	474032 123.0	3.0	115	15	<.5
123.0	10	tr	15	20	30		30	80			60		19.0	12.0	124.1 124.4	90% 133%	474033 126.0	3.0	305	75	<.5
126.0	10	tr	10	5	30		20	80			80		10	8.80	127.1 to 131.1	93% 99%	474034 129.0	3.0	121	20	<.5

PROPERTY HAIDA HOLE No. 90-21

FROM TO METERS	ROCK DESCRIPTION	ANGLES: CONTACT	BEDDING	CLEAV FOL	FAULTS	VEINS: METERS	TYPE	THICK	ANGLE	GENERAT.	GRAP	MINERAL %: PY	CPY	PYRR	MAG		ALTERATION %: CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	GARNET		MAG (Ad)	MAG (Wstd)	Metal Block	% Est. Core Rec.	ASSAYS: FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
@123.1	2.4m Massive bx'd Pink gnt SK with numerous mass mag. Po bands, v irregular replacement, 1mm 1-40cm wide, patchy. Po appears interstitial to cg mag ?l aggregates, minor cpy v patchy irregular blebs ≤1mm. ?ffing py 'chains' along minor shear planes in calcitic microvnlets.																																
@125.4	30 cm diorite dyke, int sil'd, str alt'd creamy green colour moderate calcite, upper, lower contacts sharp 45°.	45°																															
@126.0	mass mag, py conc'd as fg-mg enriched band 45° to CA, also weakly diss'd - 20cm wide.								45																								
@126.2	diorite, 20 cm fg pale creamy grn dyke as above, int sil'd, str ckl bx'd																																
@126.4	10cm Vuggy calcite Vn, minor 1cm garnet blebs, upper/lower cont 35°	35°																															
@126.5	GARNET SKARN, str bx'd garnet, Qtz swirled hetero mix, minor shearing, 40° to ca, v minor mag py mineralization, both banding and fg diss'n near lower contact.																										V						
@127.3	Plag Porph dyke 30 cm core'l. - upper contact contains 0.5cm Po enriched band 55°	55°									V																						
127.6	GARNET SK, str silicified as above, To 129.1 minor diorite bands, irreg xenoliths epi rich bands/blebs, calcite vnlets commonly host mg euh py cubes. Str fracturing 25° lower portion of unit. at 128.9 massive mag with f-mg diss'd/ffing pyrite. 7cm wide.										129.0																		129.0				
@129.1	Plag Porph dyke 1.2m grey green str ckl bx. Qtz, cal veining, ≤1.0cm Qtz, cal, musc have cg musc in small amts adjacent to vn walls approx 55 str diss'd py in enriched zones with up to 30% py over 1-2cm								55			15	tr	10			30		95	20		30	20		9.0	61.0	130.1	91%	474035 132.0	3.0	264	455	<.5

SHEET 10 OF 13

PROPERTY HAIDA HOLE No. 90-21

FROM TO METERS	ROCK DESCRIPTION	ANGLES: CONTACT	ANGLES: CLEAV FOL	VEINS: ANGLE
130.3-131.9	Limestone - dk grey fg mag diss'd			
	throughout bx'd, texitized lit.			
	py varies from 1.0cm euh x/s			
	to fg diss'd, occas. mass. mag. py			
	str chl bx, secondary cal Veining			
	from 40°-90° T.CA. str calcic			
	fg groundmass lower contact	45°		
@131.9	30cm buff fg calcic ...			
	dior? siltst? fg diss'd py 10-20% locally			
	str banding 45°, parallel to contact			
	v faint euhedral phenos?			
132.3-142.3	albitized diorite dyke? w- m skarned.			
	aphanitic mottled grey to grn banded 20-40cm scale -			
	chl bx rehealed weekly sil'd, str			
	chl, ser, fg cal, py diss'd loc.			
	10%, possible 2 diorite phases.			
@137.0	35cm felsic dyke with ... 50° to ca,			50°
	rock int silicified, gradational			
	walls			
	-grades into mottled str chl albitized			
	ck bx - rehealed. fg diss euh py.			
@142.0	30cm dior xenos 5-10 cm across			
	mg plag phenos 30% of rock, fg blk			
	matrix, str chl, brecciated irreg			
	contact			
@142.3	DIORITE? mt all'd f-mg gr-grn euhedral plag in dk grn matrix			
	str chl, sericite mod calcite alt'n			
	possibly granitized andesite border			
	phase + grading @ 144.5 into dk grn			
	calcitic andesite, cal perv an			
	microfract filling, also as 0.5mm			
	white euhedral spots 5%. fg diss euh py 2-3%			
	w. foliation 15° to ca		15°	
@144.5	- becomes dker grn. w foliated andesite			
147.6-150.?	Andesite Porphyry dk grn 30% Hbl phenos pseudo alter'd PX.			
@149.9	30cm str bx, sil'd felsic dyke			
	aph to mg, variable creamy buff colour			

GRAPH	PY	CPY	PYRR.	CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	GARNET	MAG (Au)	MAG (Light)	Meter Block	Est. Core Rec. %
132.0	8			70		20	40		30		.01	.06	132.3 / 133.2	89% / 93%
135.0	8			80		20	40		50		.01	.04	136.2	94%
138.0	8			90		10	90		34		.01	.04	139.3	83%
141.0	3			90		20	40		40		.03	.17	140.2 / 142.3 / 143.9	99% / 79%
144.0	3			95		30	10		40		.04	.07	144.5 / 145.4 / 146.6	75% / 89% / 78%
147.0	3			90		30	10		30		.37	.80	148.4 / 150.0	88% / 73%
150.0														

FROM	SAMPLES No.	TO	SAMPLE LENGTH	Cr ppm	AU ppb	AG G/T
132.0	474036	135.0	3.0	97	300	<.5
135.0	474037	138.0	3.0	55	490	<.5
138.0	474038	141.0	3.0	51	400	<.5
141.0	474039	144.0	3.0	83	75	<.5
144.0	474040	147.0	3.0	92	5	<.5
147.0	474041	150.0	3.0	97	<5	<.5

PROPERTY HEDA HOLE No. 90-21 SHEET 11 OF 13

FROM TO METERS	ROCK DESCRIPTION
@150.2	1.3m dk grn-blk Porphyry str calcitic stringers are ≤1-2cm apart. fg diss'd py 3% diss'n
@150.5	And porph cont'd pale earthy grn matrix encloses 70-80% str fg epi fract related. str calcite alt'n perv. weakly banded with enriched pheno bands 3-4cm wide possibly relict flow features no discernible orientations fg-diss cub py
@154.3	2cm calcite vn, approx. parallel ... minor pale yellow coarse xlline, alt'd xls poor to well
@155.2	1.2m Similar to that seen 132.3-147.3m str albitized?, s.l'd grn-buff aphan. str ckl bx, rehealed, broken rock. V faint relict int. dior. text. fg cub py microfract related epi assoc'd. tr Po
@156.4	1.2m str sil'd ckl bx as above, but rock competent, mod Po enriched zones - replaces cub py up to 5 cm over 2-3mm 30% vfg diss'd py tr sp in cal vnlets. in pale grn matrix 157.1 - 157.4 augite porph aph-fg groundmass, since have been in unit above/below
@157.4	Augite Porphyry as above 2-3mm euh-subhedral phenos 60-70% in vfg groundmass, minor pale grn alt'n haloes surrounding fract's minor 1-3mm cal vnlts, from 5°-70° in some cases pinch out suggesting en echelon extensional regime sweets. tr minor chl, cal, sericite alt'n rel fresh looking <1% diss'd py
@162.9	80cm v dk grn str calcitic veining, pervasive
@166.6	2cm qtz cal Vn wisps mass. chl, <1% ... diss'd
@167.7	1cm qtz cal Vn as above
@177.9	80cm DIORITE DYKE, fg peppered 1-2% plag phenos 1-2mm, average ≤0.5mm minor calcitic Vnlets, v weak epidote

GRAPH (m)	PY	CPY	PYRR.	CHL.	EPIDOTE	CARB.	SILICA	CLAY	SERICITE	MAG (AV)	MAG (High)	Metal Block	% Est. Core Rec.	FROM / SAMPLES No. / TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
150.0 – 153.0	3			40	10	30			10	.19	.59	150.6, 151.5	77%, 115%, 95%	150.0 / 474042 / 153.0	3.0	89	20	<.5
153.0 – 156.0	3		tr	70	10	20	50		20	.05	.13	154.5, 156.1	77%	474043 / 156.0	3.0	104	<5	<.5
156.0 – 159.0	5	tr	1	50	5	40	90		30	.04	.17	157.6, 158.2, 159.1	93%, 82%, 90%	474044 / 159.0	3.0	277	30	<.5
159.0 – 162.0	tr			40	10	30			30	.02	.05	160.6	103%	474095 / 162.0	3.0	100	<5	<.5
162.0 – 165.0	tr			40	10	40			30	.01	.08	163.7	98%	474096 / 165.0	3.0	98	<5	<.5
165.0 – 168.0	tr			40	10	40			30	.12	.42	166.7	98%	474097 / 168.0	3.0	102	<5	<.5
168.0 – 171.0	tr			40	10	40			30	.08	.42	169.8	93%	474098 / 171.0	3.0	94	<5	<.5
171.0 – 174.0	tr			40	10	40			30	.01	.11	172.8	92%, 85%	474099 / 174.0	3.0	102	<5	<.5

1-1157

PROPERTY HAIDA HOLE No. 90-21

FROM TO METERS	ROCK DESCRIPTION	CONTACT ANGLE
@178.8	Breccia - fg pure calcite sugary texture, supports str bx'd png fragments of andesite (no dist pheno's int sil'd aph-fg fine 1-2 lamina 45° to CA. Possibly represents flow/shear banding 20cm wide. followed by 30cm str ckl bx, aph sil'y andesite.	
@179.3	Qtz, calcite Vn supports several 1cm wall rock fragments over 4cm thickness 5% fg diss euh py.	
@179.4	ANDESITE PORPHYRY. as above 1.m lower contact jagged irregular.	35
@180.4	DIORITE, 30% mafics fg, homo. diorite str epi. chl alt'n of mafics, minor gnt blebs < 1cm across. possible xenolith	
@180.5	Sil'd aphanitic swirled alt'd dior. str altered.	
@180.7	20 cm alt'd fg diorite 40% mafics alt'd to chl, ep	
@180.9	SKARN. int sil'd, bx'd pale grn swirled altered rock, minor gnt blebs & irregular w banding, 30° to CA. & occasional relict plag porph.	
@182.5	90cm Plag Porph dyke int sil'd pale grey, ckl bx with dk grn chl'c alt 2mm rims assoc'd with fg py chains of euh cubes. minor epi blebs to 1.0 cm across. V weak cal alt'n	
@183.4 3.1m	ENDOSKARN, aph weakly gnt banded int sil'd aph-fg str alt'd intrusive, v faint Plag Porph relict texture intermittently banded with gnt/epi bands & irregular, str ckl bx - rehealed, intr rock frag's very from fg 20% plag phenos in grn aph groundmass to 70% mg plag supporting alt'd mafics. gnt bands 2-3mm 60° to CA X-cut by late calcite vns 60° to CA fg euh py clustered in epidote blebs, along fracts. locally 10%	

Graph depth	PY	CPY	CHL.	EPIDOTE	CARB.	SILICA	SERICITE	GARNET	MAG (AV)	MAG (High)	Meter Block	% Est. Core Rec.
174.0	tr		40	10	40		30		.04	.08	175.9	
177.0	3	tr	50	5	80	30	30		.01	.04	178.9	101%
180.0	1		80	5	20	80	20	3	.01	.07	179.8	99%
											182.0	80%
183.0	5		80	10	10	80	20	5	.03	.09	183.3	65%
											183.8	91%
											185.0	86%
186.0	5		80	5	10	90	5		.01	.05	186.5	88%
											187.1	103%
											188.1	65%
189.0	5		80	5	10	90	5		.01	.03	189.3	95%
											191.1	93%
192.0											192.0	89%

FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
174.0 474050 177.0	3.0m	105	<5	<.5
177.0 474051 180.0	3.0	96	<5	<.5
180.0 474052 183.0	3.0	208	15	<.5
183.0 474053 186.0	3.0	482	40	<.5
186.0 474054 189.0	3.0	314	10	<.5
189.0 474055 192.0	3.0	612	265	<.5

dist. distinguishable

PROPERTY ____________ HOLE No. ____________ SHEET ___ OF ___ Sheet 13 of 13

FROM TO METERS	ROCK DESCRIPTION	CONTACT
186.5-188.1	Plag Porph. Cg mottled creamy palegrey anhedral plag phenos in grey groundmass up to 8mm across int sil'd, minor epi rich blebs to 4cm across, str mg euh py along fractures m.str rehealed ckl bx. calcite matrix lower contact very jagged, v steep (shlit) 20° to ca	
188.1-190.3	Plag Porph mg. similar to above but finer grained, stronger py to 10% ffing, chl rich wisps abundant from 189.2 to 189.9 str ckl bx, several Porph phases as irregular bx frags in int silicified, str chl w-m epi fractures. minor fg-py. lower contact 20° to CA, sharp.	20
190.3-200.3	Silicified Plag Porphyry extremely diverse mixture of apl, fg, mg, Cg int silicified porphyry, dike intrusives contacts all blurred v irregular to gradational str ckl bx rehealed w/ calcite + quartz. minor epi ffing to w-d ?d py tr cpy @ 196.5 20cm 30% mag	
@ 197.3	50 cm py enriched dk grey int silicified plag porphy minor relict phenos visible py locally 70% on lime fractures w linked euh py cubes.	
	E.O.H	
	CASING LEFT IN	

GRAPH	PY	CPY	PYRR.	Magnetite	CHL.	EPIDOTE	CARB.	SILICA	CLAY	Sericite	MAG (Ar)	MAG (Hb)	Meter Block	% Est. Core Rec.	FROM SAMPLES No. TO	SAMPLE LENGTH	Cu ppm	AU ppb	AG G/T
192.0	5				50	5	25	70			.01	.06	192.0 / 192.9	110%	192.0				
													194.2	66%	474056A	3.1m	165	<5	<.5
195.0	5				50	5	20	70			.17	3.2		97%	195.0 / 474056B	5.3m	474	25	<.5
198.0	5	tr		5	50	10	10	70			.17	3.2	197.2	90%	198.0				
201.0													200.3 / EOH		200.3				

SUMMARY LOG

FROM TO METERS	ROCK DESCRIPTION
0.0-3.6	OVERBURDEN
3.6-22.6	DIORITE
22.6-63.0	HYBRIDIZED ANDESITE & DIORITE
63.0-99.4	DIORITE
99.4-103.4	ANDESITE PORPHYRY
103.4-104.7	LIMESTONE
104.7-106.1	DIORITE
106.1-110.9	MARBLE
110.9-115.0	PLAGIOCLASE PORPHYRY
115.0-130.3	ENDOSKARN
130.3-132.3	LIMESTONE
132.3-142.3	ENDOSKARN

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: TECK EXPLORATION LTD.

960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1

Invoice Date: 14-MAR-90
Invoice No. : I-9012355
P.O. Number : 26173

Project : HAIDA 1388
Comments: ATTN: FRED DALEY CC: TOR BRULAND

CERTIFICATE OF ANALYSIS A9012355

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
474011	205	294	10	< 0.5	19	120	5.76	940	< 1	13	< 5	68
474012	205	294	5	< 0.5	25	169	6.02	845	< 1	18	< 5	80
474013	205	294	10	< 0.5	14	69	3.60	605	< 1	6	< 5	60
474014	205	294	10	< 0.5	18	95	4.10	555	< 1	13	< 5	66
474015	205	294	< 5	< 0.5	23	151	5.16	605	< 1	39	< 5	74
474016	205	294	10	< 0.5	22	216	5.21	510	< 1	20	< 5	74
474017	205	294	5	< 0.5	21	175	4.84	510	< 1	16	< 5	72
474018	205	294	< 5	< 0.5	20	74	4.91	650	< 1	10	< 5	84
474019	205	294	< 5	< 0.5	19	80	5.09	795	< 1	10	< 5	76
474020	205	294	< 5	< 0.5	19	114	4.49	700	< 1	7	< 5	82
474021	205	294	10	< 0.5	18	150	3.91	515	< 1	12	< 5	58
474022	205	294	10	< 0.5	18	169	4.36	660	1	10	< 5	60
474023	205	294	5	< 0.5	16	140	4.09	800	1	4	< 5	74
474024	205	294	20	< 0.5	15	91	4.17	770	< 1	3	< 5	72
474025	205	294	< 5	< 0.5	20	75	4.17	755	< 1	61	< 5	52
474026	205	294	< 5	< 0.5	3	14	1.49	290	2	4	< 5	52
474027	205	294	< 5	< 0.5	3	28	2.01	325	< 1	4	< 5	58
474028	205	294	80	< 0.5	6	46	2.82	420	< 1	6	< 5	40
474029	205	294	25	< 0.5	8	58	2.84	430	< 1	5	< 5	36
474030	205	294	15	< 0.5	8	61	2.48	530	2	3	< 5	40
474031	205	294	5	< 0.5	9	75	2.57	375	< 1	6	< 5	30
474032	205	294	15	< 0.5	7	115	9.53	985	< 1	5	< 5	40
474033	205	294	75	< 0.5	17	305	>15.00	935	< 1	1	< 5	52
474034	205	294	20	< 0.5	6	121	13.00	1225	< 1	< 1	< 5	36
474035	205	294	455	< 0.5	22	264	10.20	1000	8	5	< 5	46
474036	205	294	300	< 0.5	10	97	3.63	860	7	7	< 5	56
474037	205	294	490	< 0.5	11	55	3.56	785	< 1	3	< 5	68
474038	205	294	400	< 0.5	11	51	3.51	675	< 1	7	< 5	48
474039	205	294	75	< 0.5	19	83	4.72	875	< 1	30	< 5	66
474040	205	294	5	< 0.5	21	92	5.95	1040	< 1	48	< 5	78
474041	205	294	< 5	< 0.5	20	97	5.22	905	< 1	43	< 5	62
474042	205	294	20	< 0.5	19	89	4.67	790	< 1	40	< 5	56
474043	205	294	< 5	< 0.5	19	104	2.94	510	< 1	71	< 5	38
474044	205	294	30	< 0.5	31	277	3.84	550	< 1	29	< 5	44
474045	205	294	< 5	< 0.5	22	100	2.72	435	< 1	32	< 5	36
474046	205	294	< 5	< 0.5	22	98	4.05	650	< 1	38	< 5	52
474047	205	294	< 5	< 0.5	20	102	3.58	565	< 1	34	< 5	48
474048	205	294	< 5	< 0.5	18	94	3.47	520	< 1	35	< 5	46
474049	205	294	< 5	< 0.5	18	102	3.23	455	< 1	33	< 5	44
474050	205	294	< 5	< 0.5	17	105	3.33	505	< 1	32	< 5	44

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: TECK EXPLORATION LTD.

960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1

Invoice Date: 14-MAR-90
Invoice No. : I-9012355
P.O. Number : 26173

Project : HAIDA 1388
Comments: ATTN: FRED DALEY CC: TOR BRULAND

CERTIFICATE OF ANALYSIS A9012355

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
474051	205	294	< 5	< 0.5	15	96	3.13	480	< 1	21	< 5	52
474052	205	294	15	< 0.5	16	208	2.76	375	< 1	23	< 5	44
474053	205	294	40	< 0.5	28	482	4.46	630	< 1	14	< 5	42
474054	205	294	10	< 0.5	25	314	2.55	470	< 1	5	< 5	42
474055	205	294	265	< 0.5	39	612	2.76	385	< 1	6	5	62
474056 A	205	294	< 5	< 0.5	14	165	2.66	610	< 1	5	< 5	38
474056 B	205	294	25	< 0.5	31	474	3.82	535	< 1	8	< 5	58

CERTIFICATION : B. Caughlin

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212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: TECK EXPLORATION LTD.

960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1

Project : 1388
Comments: ATTN: FRED DAILEY CC: TOR BRULAND

Date : 12-MAR-90
Invoice # : I-9012169
P.O. # : 26172

CERTIFICATE OF ANALYSIS A9012169

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
473993	205	294	5	< 0.5	19	123	5.16	1090	1	20	< 5	70
473994	205	294	< 5	< 0.5	[illegible]	[illegible]	4.75	795	< 1	9	< 5	74
473995	205	294	90	< 0.5	18	150	7.15	1615	< 1	26	10	114
473996	205	294	85	< 0.5	23	171	6.10	1285	< 1	27	370	96
473997	205	294	5	< 0.5	23	179	5.57	960	1	31	5	74
473998	205	294	30	< 0.5	28	281	5.29	880	2	25	< 5	74
473999	205	294	< 5	< 0.5	22	164	6.26	1035	< 1	25	< 5	84
474000	205	294	10	< 0.5	21	167	5.76	910	1	21	< 5	78
474001	205	294	25	< 0.5	23	187	5.41	850	1	20	< 5	76
474002	205	294	15	< 0.5	20	200	5.76	945	< 1	14	< 5	80
474003	205	294	20	< 0.5	24	194	5.06	815	< 1	14	< 5	74
474004	205	294	< 5	< 0.5	21	119	3.64	645	< 1	32	< 5	50
474005	205	294	< 5	< 0.5	20	103	3.44	595	< 1	30	< 5	46
474006	205	294	< 5	< 0.5	21	96	3.67	655	< 1	36	< 5	46
474007	205	294	< 5	< 0.5	23	95	4.31	835	< 1	46	< 5	50
474008	205	294	< 5	< 0.5	23	96	4.09	815	< 1	58	< 5	48
474009	205	294	< 5	< 0.5	23	152	6.04	1000	1	28	< 5	72
474010	205	294	< 5	< 0.5	22	162	5.01	975	< 1	23	< 5	66

CERTIFICATION : B. Caufield

DEER LAKE

WL 1386.1

LAKE PROPERTY

HAIDA PROPERTY

PAULINE LAKE

IRON LAKE

NORA LAKE

FORT 7

FORT 9

VIT 12

TUN I

TUN II

B/L 0+00

3+00E

10,000N
10,000E

90-17
90-18
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90-28
90-29
90-30

88-1
88-2
88-3
88-4
88-5
88-6
88-7
88-8
88-9
88-12
88-13
88-14
88-15
88-16

5714000 N
5713000 N
5712000 N
5711000 N
682000 E
683000 E
684000 E
685000 E

A
A'

LEGEND

1	Argillite	4	Hornfelsed sediments	7	Granodiorite
2	Limestone	5	Skarn	8	Amphibolite
3	Andesite	6	Diorite		

⊥ Bedding

⇌ Foliation

SHEET INDEX

3	4
1	2

PRELIMINARY RECONNAISSANCE TYPE MAPPING SCALE AND ELEVATION DATUM BASED ON LIMITED GROUND CONTROL RESULTING IN GOOD RELATIVE BUT UNCERTAIN MAP ACCURACY.

McElhanney

REF. NO. 50898-

MCELHANNEY GEOSURVEYS LTD.
200-1166 ALBERNI STREET VANCOUVER B.C.

COMPILED FROM AERIAL PHOTOGRAPHY TAKEN IN 1985 AT AN APPROXIMATE SCALE OF 1:15000

MAP SCALE 1:5,000 | CONTOUR INTERVAL 5 METRES

DATE COMPILED OCTOBER 1989 | SHEET NUMBER 4 OF 4

TECK EXPLORATIONS LTD

LAKE PROPERTY

GEOLOGY

ORTHOPHOTO

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,020

FIGURE 5