

SJB-RECORDER
RECEIVED
OCT 21 1991
M.R. # \$
VANCOUVER, B.C.

COMINCO LTD

LOG NO	OCT 25 1991	RD.
ACTION:		
FILE NO:		

EXPLORATION

WESTERN DISTRICT

REPORT ON PERCUSSION DRILLING
MISSEZULA PROPERTY

LOG 1-4 CLAIMS

NTS 92H/15E

(WORK PERFORMED BETWEEN MAY 13 AND JUNE 5 1991)

LATITUDE: 49 47' N

LONGITUDE: 120 34' W

Nicola Mining Division

Annual Work Approval # KAM 91-1500067-1025

GEOLOGICAL BRANCH
ASSESSMENT REPORT

June 30 1991

21,746

R. J. Aulis

TABLE OF CONTENTS

	PAGE
SUMMARY.....	1
INTRODUCTION.....	1
LOCATION AND ACCESS.....	2
TOPOGRAPHY.....	2
TENURE.....	2
GEOLOGY.....	2
PREVIOUS EXPLORATION.....	3
PERCUSSION DRILLING.....	3
CONCLUSIONS AND RECOMMENDATIONS.....	4
FIGURES: 1. Location Plan.....	following pg 1
2. Claim Map.....	following pg 1
3. Drill Hole Location Map(1:10000).....	in pocket
TABLE 1Drill Hole Data.....	3
TABLE 2Geochem Analysis Highlights.....	4
APPENDIX AExpenditures.	
APPENDIX BDrill Hole Records	
APPENDIX CAffidavit	
APPENDIX DStatement of Qualifications.	

PERCUSSION DRILLING REPORT
MISSEZULA PROPERTY
LOG 1 - 4 CLAIMS
NICOLA MINING DIVISION
NTS 92H/15E

Latitude 49 47' N

Longitude 120 34'W

SUMMARY

Fifteen percussion holes were drilled on the Missezula property over previously untested portions of an IP anomaly/porphyry copper system. The holes, targeted to 91.5m depth, were spaced 200 - 300m apart. Altered bedrock and anomalous values for Cu and Au were encountered in most of the holes. Particularly encouraging results were obtained from the four eastern-most holes drilled in the centre of a coincident IP/soil geochem anomaly trending NW-SE; the best hole recording 0.38% Cu over its full length (4.9-91.5m). A follow-up program of detailed geological mapping and fence-pattern diamond drilling is recommended.

INTRODUCTION

The Missezula property, comprised of the LOG group of claims, is located approximately midway between Princeton and Merritt, B.C. It is an alkaline-porphyry Cu-Au prospect within the Princeton-Merritt copper belt of south central B.C. that was first acquired by Bethlehem Copper Corp. in 1973 and later transferred to Cominco Ltd. in 1981.

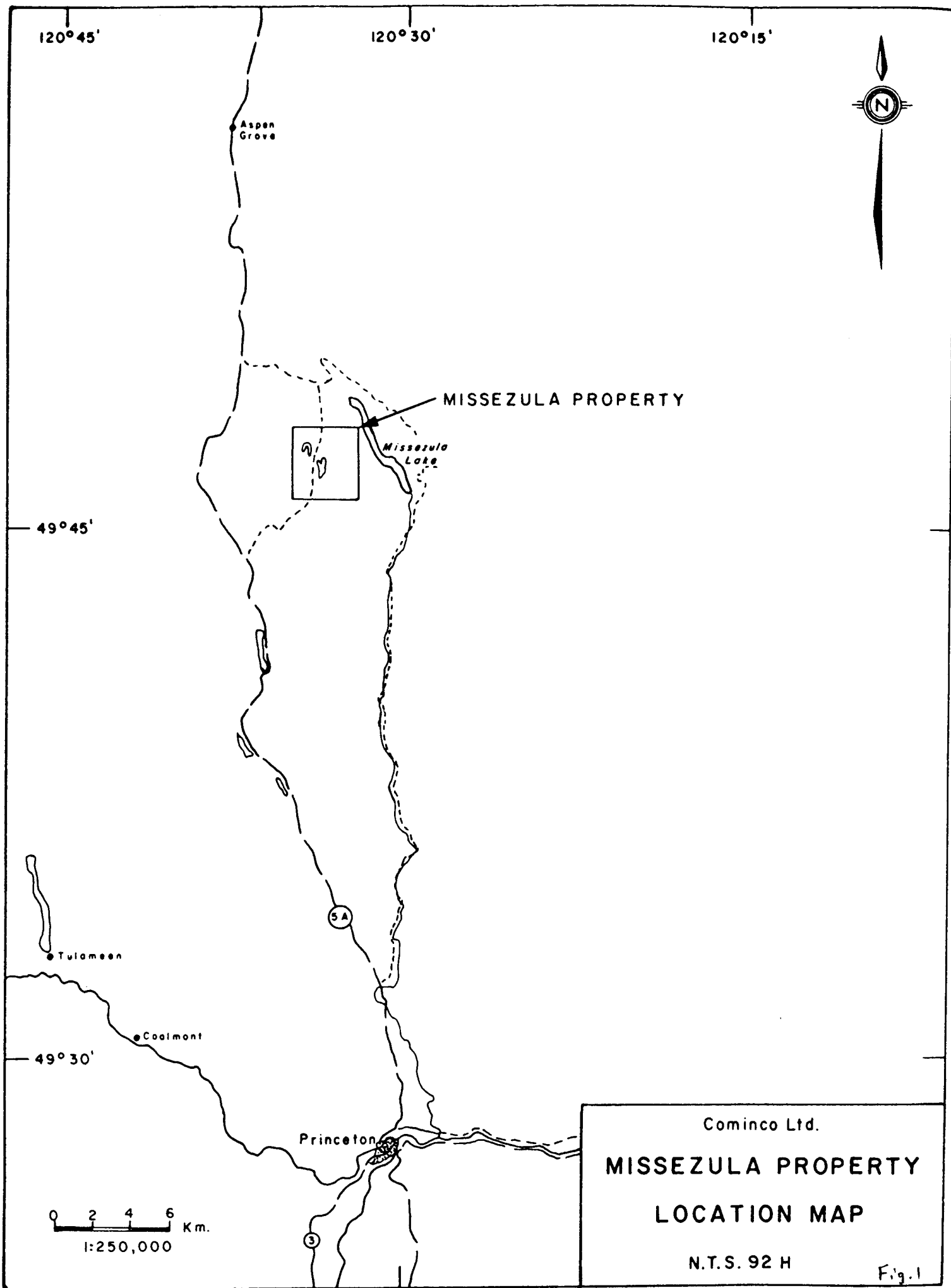
Most of the surface rights are privately owned by the Douglas Lake Cattle Co. Fifteen holes were drilled in 1991 to test the untested portions of a large IP anomaly measuring 2 km by 0.5-0.75 km, open to the east and west. The drilling was performed by A. Miller Percussion Drilling Ltd. of Barriere, B.C. during the period of May 29 - Jun 4.

LOCATION AND ACCESS

The LOG claims cover a north-south trending valley which contains Ketchan and Hook Lakes, situated about 3 km west of Missezula Lake (see Figure 1.). The centre of the claims (LCP) is at 49degs 47' north; 120degs 33' west. Access to the property is by a well maintained logging road (Dillard Creek Road) running SE of Hwy 5A from about 43 km south of Merritt. About 4 km along the Dillard Creek Road the Ketchan Lake Road diverges to the south. The claims lie about 9 km from the highway. On the property, numerous old logging and drill roads access the east half of the claims. To the west the claims are reached by recreation site access roads and a Hydro line road.

TOPOGRAPHY

North-south trending rolling hills of moderate relief crest at about 1400 m ASL (4600') east and west of a wide swampy valley



Cominco Ltd.
MISSEZULA PROPERTY
LOCATION MAP
N.T.S. 92 H

Fig. 1

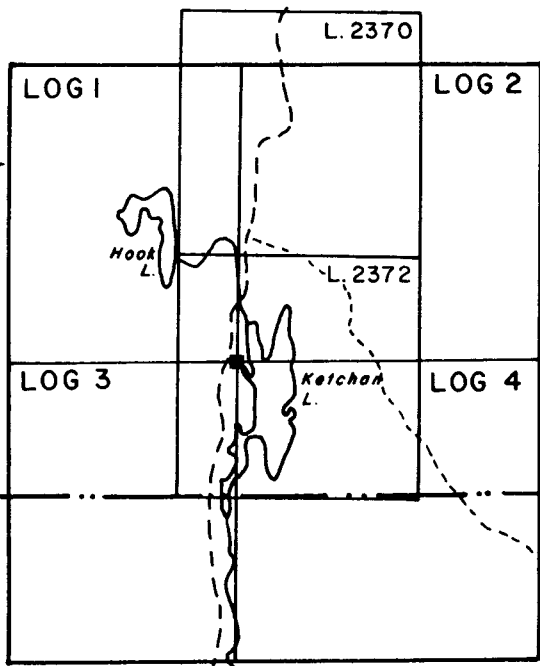


49°50' +

HWY. 5A

Dillard Creek Forest Service Road

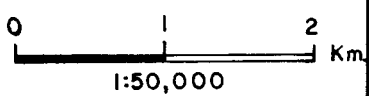
LOG CLAIM BOUNDARY →



MISSEZULA LAKE

Nicolq M.D.
Similkameen M.D.

49°45' + 120°30'



Cominco Ltd.
**MISSEZULA PROPERTY
LOG CLAIMS
LOCATION MAP**
N.T.S. 92 H/15
Fig. 2

occupied by Ketchan (Duke) Lake and Hook Lake (approx 1200 m ASL). Most of the claim area has been logged off and is in various stages of regrowth. Lodgepole pine and the occasional grove of aspen are the dominant flora.

TENURE

The present Missezula property consists of the following four claims, all 100% Cominco owned (see Figure 2):

Claim	Size (#units)	Record Date	Expiry Date
LOG 2	16.0	1975/08/28	1991/08/28
LOG 3	12.0	1975/08/28	1991/08/28
LOG 1	12.0	1975/08/28	1994/08/28
LOG 4	16.0	1975/08/28	1994/08/28

56.0 total

GEOLOGY

The geology of the area was described in Dept. of Energy Mines and Petroleum Resources Bulletin 69 by V.A. Preto (1979).

The principal formations on the property are Upper Triassic Nicola Volcanics and related dioritic intrusions. The volcanics range from andesitic flows to crystal-lithic tuffs to coarse heterolithic breccias. The intrusives, occurring in the centre of the property, consist of medium grained syenite to diorite. It is within this area of intrusives that the vast majority of drilling has taken place. On the western margin of the property black fissile argillite occurs. There are abundant float boulders of grey vesicular lava of Tertiary age and drillhole data indicate the presence of Tertiary flow rock under the overburden in the centre of the valley.

Faults on the property tend to parallel the steeply dipping major N-S trending Summers Creek and Allison faults. Dips are generally to the east, reflecting the position of the units on the west limb of the major N-S trending Missezula syncline.

PREVIOUS EXPLORATION

The LOG group of claims was acquired by Bethlehem Copper Corp. in December 1973 as a result of a large scale regional exploration program carried out in the Merritt-Princeton area in 1970 and 1972. The area was previously worked in the mid-sixties as the Lorna, Strike and Nor claims by Adera Mining/Plateau Metals. Adera/Plateau Metals drilled several percussion and diamond drill holes on the property but all records have been lost.

In 1974 the property was drilled by 10 percussion, 1 rotary and 4 diamond drill holes. This drilling tested only a portion of a large 2 km by 0.5-0.75 km IP anomaly trending NNW-SSE. Four of the holes intersected significant Cu mineralization grading 0.1

-0.2% Cu over 140-390 ft with some 30-80 ft intervals of 0.4-0.5% Cu. No gold analyses were done on the core or outcropping mineralization.

Two parallel west, northwesterly trending IP anomalies were outlined on the claims in 1979 and tested by a further two diamond drillholes west of Ketchikan Lake. Later the same year the IP survey was extended to confirm the east and west extensions of the original 1974 IP anomalies.

The LOG claims were transferred to Cominco Ltd. when Cominco acquired Bethlehem Copper Corporation in 1981.

To maintain the claim, in 1987 Cominco conducted a geochemical survey on the property to test for gold and arsenic. Low anomalous values for gold were found north of the IP anomaly.

PERCUSSION DRILLING

Sixteen percussion drillholes were planned for the 1990 exploration program to test the undrilled portions of the large IP anomaly (2.0 x 0.5-0.75 km) outlined by the 1974 and 1979 surveys (see Figure 4). The holes were to be drilled to 300 ft, -90 degs and spaced 200 - 300m apart.

A total of 15 percussion holes were completed from May 29 to June 4 1991 (see Figure 3). The contractor was A. Miller Percussion Drilling of Barriere, B.C.. Cominco personnel present during drilling were; A.M. Pauwels (Sr. Geologist), R.J. Aulis (Geologist), A.P. Roberts (Technician), R.K. Hutchinson (Assistant).

Drillhole data is detailed in Table 1 below. Drillhole logs and assay results can be found together in Appendix B.

TABLE 1
DRILL HOLE DATA

Drillhole interval(m.)	Claim	OB(m)	Total Depth(m)	Sample
B-1	LOG 1	0	91.5	91.5
B-2	LOG 2	1.5	91.5	90.0
B-4	LOG 3	4.6	45.7	41.1
B-5	LOG 3	10.7	54.9	44.2
B-6	LOG 2	18.0	67.1	49.1
B-7	LOG 4	39.6	39.6	0
B-8	LOG 4	2.7	45.7	43.0
B-9	LOG 4	0.3	91.5	91.2
B-10	LOG 4	4.9	91.5	86.6
B-11	LOG 4	29.0	42.7	13.7
B-12	LOG 4	11.0	91.5	80.5
B-13	LOG 4	0.9	91.5	85.3
B-14	LOG 4	3.4	91.5	88.1
B-15	LOG 4	8.2	91.5	83.3
B-16	LOG 4	39.6	39.6	0
		TOTAL	1067.3m	887.6m

Of the 15 holes drilled, 2 did not penetrate through thick overburden. A further 5 were abandoned within bedrock before reaching full depth due to broken ground and resulting loss of circulation of drill fluids.

Bedrock chips were logged using a binocular microscope and samples were taken every 3.05m. The majority of chips were composed of a pale green assemblage of feldspar/sericite/chlorite. Also present in minor to significant amounts were; magnetite, K-spar, calcite, epidote and quartz suggesting moderate to strong propylitic alteration of the volcanics/intrusives. Up to 5-6% disseminated sulphides (py>>cpy) were noted in two of the better mineralized holes with cpy occurring up to approx 1%, but averaging 0.3-0.5%. Unmineralized holes contained on average 0.5-1% diss py only.

Samples for analysis were taken every 3.05m (approx 1/12 split of total cuttings) and sent to Cominco Exploration Research Laboratory at 1486 Pender St. E., Vancouver. Analysis for gold and copper was done using Aqua regia decomposition and atomic absorption spectrometry. Results indicated elevated Cu values in most of the samples with values of between 200 and 600ppm being the norm. Where Cu values were less than 600-800ppm the corresponding gold values tended to be <10ppb. Significantly elevated gold values, however, were present and correlated quite well with the higher copper values. The best gold value was 1354 ppb Au in hole B-13, one sample interval apart from a local Cu high of 4000 ppm. Generally, where Cu values exceeded 1000 ppm the corresponding Au values ranged from 50 - 200 ppb, averaging 70 - 90 ppb. Highlights of the geochem analysis are given below in Table 2.

It should be noted that holes B-10 and B-12 are 220m apart and >250m distant from the next closest percussion holes. Holes grading greater than 0.1% Cu (B-10,12,13,14, PC-74-7, L-75-3) cover an area measuring approximately 1000 x 400 m.

TABLE 2
GEOCHEM ANALYSIS HIGHLIGHTS

Drillhole	Interval(m)	Thickness(m)	Cu ppm	Au ppb
B-10	4.9 - 91.5	86.6 (open)	3786	76
B-12	11.0 - 91.5	80.5 (open)	2402	82
B-13	0.9 - 91.5	90.6	1331	106
	incl. 33.5 - 70.1	36.6	2088	209
B-14	3.4 - 45.7	42.3	1123	<20
B-15	8.2 - 91.5	83.2	660	<30

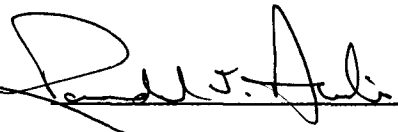
At the time of writing this report, assay results for the above holes were not available.

CONCLUSIONS AND RECOMMENDATIONS

A total of fifteen holes were drilled into untested portions of a large NNW-SSE trending IP anomaly known to host significant Cu mineralization with unknown Au potential. The holes intersected altered alkaline rocks with elevated copper and gold contents. Four of the holes intersected Cu - Au values of interest, occurring in the centre of a coincident IP/geochem anomalous zone. Two of these were of potential economic interest and open to depth.

Present drillhole spacing within the IP anomaly strongly suggests the possibility of a porphyry copper-gold deposit of significant size (>80 million tons). A follow-up program of diamond drilling is recommended. Twelve 150m deep holes (1800m total) drilled in a fence pattern, oriented parallel to the anomaly would best test the potential of this mineralized zone (see PLATE #3). Detailed mapping of the geology of the immediate area is also recommended to obtain a better understanding of the orientation of the ore-hosting stratigraphy before drilling commences.

Reported by:



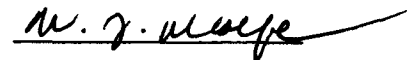
Randal J. Aulis
Geologist

Endorsed by:



Andre M. Pauwels
Senior Geologist

Approved for
Release:



W.J. Wolfe
Manager, Exploration
Western Canada.

**APPENDIX A
EXPENDITURES**

For Period May 13 - June 5 1991

Salaries:

A.M. Pauwels, Sr. Geologist	8 days @ \$425/day.....	\$3400.00
A.P. Roberts, Technician	8 days @ \$270/day.....	\$2160.00
May 13,14 - 2 days road layout.....		\$540.00
R.J. Aulis, Geologist	8 days @ \$270/day.....	\$2160.00
May 13,14 - 2 days road layout.....		\$540.00
R.K. Hutchison Assistant	8 days @ \$160/day.....	<u>\$1280.00</u>

total \$10080.00

Geology supplies.....\$505.00

Domicile

 44 man days @ 90.00/day.....\$3960.00

Geochemical Analysis

 320 geochem for Cu, Au @ \$12.00 each....\$3840.00
 100 Cu, Au assays @ \$17.00 each.....\$1700.00

Transportation

 two 4x4 trucks - 10 days @ 200/day.....\$2000.00
 Freight - transport truck to/from
 Merritt - Robo Transport..... \$2355.00

Percussion Drilling (3500').....\$28,800.00

Drill Site Preparation..... \$7450.00

Preparation/Report Writing

 11 man days @ \$270.00/day..... . \$2970.00

Total \$63660.00

**APPENDIX B
DRILL HOLE RECORDS**

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 4 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 91.5 m.
 Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-1
 Logged by: RJA
 Date: JUN 07 1991

Objective:
 Summary:

From To (m)	Description
0 - 6.10	no overburden, dk gray to black sample; chips dk gray, monolithic and homogeneous fine grained with minor mottling of lighter constituents, other ingredients include whitish chips of calcite, feld, minor qtz, trace epid, lite green felds/chl. Note vigorous rx'n w HCl; top sample contains 1mm flake of cpy as in a fracture lining, no other sulphides noted probable interpretation a fine calcareous siltstone
6.10 - 9.14	as above
9.14 - 12.20	AS above, est 5% white qtz chips w trace assoc fine py
12.20 - 15.25	as above
15.25 - 18.30	as above, <1% fine diss py
18.30 - 21.35	as above, slight increase in white qtz/calc chips (6%) these chips 0.5 - 1mm
21.35 - 24.40	as above, trace py as cluster of fine grains
24.40 - 27.45	as above
27.45 - 30.50	as above
30.50 - 33.55	as above
33.55 - 36.60	as above, coarser sample to 39.65
36.60 - 57.95	as above, samples consistent and homogeneous
57.95 - 61.00	sharp increase in percentage of white chips (calc, minor qtz) to 40-50%
61.00 - 82.35	as above, gradual decrease in calcite chip content until 76.2 where sample has again 5-10% white chips to bottom of hole
82.35 - 91.5	as above, rare trace of py in homogeneous, monolithic mass of black-dk gray chips w 5-10% white calc chips
91.5	END OF HOLE

HOLE B-1

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
0.00	6.09	57		<10	
6.09	9.14	80		<10	
9.14	12.19	109		<10	
12.19	15.24	107		<10	
15.24	18.28	100		<10	
18.28	21.34	112		<10	
21.34	24.38	80		<10	
24.38	27.43	70		<10	
27.43	30.48	60		<10	
30.48	33.52	62		<10	
33.52	36.57	59		<10	
36.57	39.62	64		<10	
39.62	42.67	56		<10	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
42.67	45.72	59			
45.72	48.67	53			
48.67	51.81	52			
51.81	54.86	52			
54.86	57.91	65			
57.91	60.96	74			
60.96	64.02	114			
64.02	67.05	84			
67.05	70.10	72			
70.10	73.15	81			
73.15	76.2	64			
76.2	79.24	62			
79.24	82.29	56			
82.29	85.34	66			
85.34	88.39	63			
88.39	91.44	59			

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 3 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 91.5 m.
 Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-2
 Logged by: RJA
 Date: JUN 07 1991

Objective:
 Summary:

From	To (m)	Description
0	1.52	Overburden
1.52	6.10	med to dk gray sample w mainly two types of chips - dk grey to black monolithic angular chips of homogeneous texture; and white chips - primarily calcite w minor qtz or felds. Both types react strongly to HCl- suggest a calcareous siltstone minor weathering/oxidation brown-rusty coloured chips in top 3m sample. non magnetic - no mt. trace to 1% fine diss py or as cluster chips est 10% of chips as those described below
6.10	9.14	lighter overall colour - lite-med grey/green, moderately calcareous, finer grained. Compo of subrounded chips hard to determine- plag laths, chl (after amph?), calc, ser, some chips (10%) black fine grained as above. trace fine lite green epidote grains, diss py different rock type than above, also non magnetic
9.14	12.20	AS above, trace cpy?, trace biotite, 5% lite apple green chips - epidote. Note no orange or pink chips- Kspar
12.20	15.25	as above
15.25	18.30	as above
18.30	21.35	as above
21.35	24.40	mixture of above rock and top sample (siltst?); est 40% dk grey/black coarser monolithic, angular chips, 30% grey-green chips of feld/chl/amph/calc, sub angular 30% other - white calc/qtz xtals, minor epid, scattered est 2% py as euhedral grains or fine diss assoc w the latter 30%.
24.40	27.45	as above, but only 15% of the black angular chips, note possible pyroxenes (90 deg), v dark xtals in light feldspathic matrix. trace magnetite
27.45	30.50	as above
30.50	33.55	lighter green than above due to absence of the black chips (2%) and increase in lite green epid/ felds chips to 15-20%. Still calcareous
33.55	36.60	as above
36.60	39.65	as above, epidote lite green chips down to 3-5%; trace py only
39.65	42.70	as above, occ black angular chip- (siltst)
42.70	45.75	as above
45.75	48.80	as above, lighter colour due to increase white chips

est 1% diss py clusters or grains

48.80 - 51.85 anomalous sample - quite lite grey and very fine grained almost silty, calcareous perhaps a calcite vein or frac.

51.85 - 54.90 as above the above sample, note only 1-2% epid

54.90 - 57.95 as above, approx 80% lite-med green feld/amph/chlorite chips w calcite, epid, pyroxene, qtz and py(1-2%)

57.95 - 61.00 as above

61.00 - 64.05 as above, local increase in epid lite green xtals to give sample overall lighter colour; note still occ chip of dark grey/black siltst; trace magnetite to 1%

64.05 - 91.5 as above right to end of hole with only minor variation in abundance of epidote (2-10%) and calcite white chips py remains <1%; no more traces of previous dark grey to black sed chips

91.5 End of Hole

HOLE B-2

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
1.52	6.09	68		<10	
6.09	9.14	68		<10	
9.14	12.19	67		<10	
12.19	15.24	60		26	
15.24	18.28	69		<10	
18.28	21.34	62		<10	
21.34	24.38	67		<10	
24.38	27.43	38		<10	
27.43	30.48	34		<10	
30.48	33.52	29		<10	
33.52	36.57	23		<10	
36.57	39.62	46		<10	
39.62	42.67	61		<10	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
42.67	45.72	26		<10	
45.72	48.76	37		<10	
48.76	51.81	66		<10	
51.81	54.86	73		<10	
54.86	57.91	98		<10	
57.91	60.96	96		<10	
60.96	70.10	75		<10	
70.10	73.15	46		<10	
73.15	76.2	36		<10	
76.2	79.24	20		<10	
79.24	82.29	41		<10	
82.29	85.34	61		<10	
85.34	88.39	62		<10	
88.39	91.44	62		<10	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 4 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 180 FT/54.9m
 Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE MISS-5
 Logged by: RJA
 Date: JUN 06 1991

Objective:

Summary: hole abandoned at 54.9m (180') due to loss of circulation in fractured ground. minor sulphides only in hematitic stained chips w minor sedimentary mat'l?

From To (m)	Description
0 - 10.67	Overburden
10.67 - 15.25	chips dominantly dark grey fine grained mottled mat'l of sub-microscopic grain size; abundant brown to rusty weathered chips also; minor (<10%) monomineralic felds grains, trace lite green epidote; <1% sulphides - py with trace cpy.
15.25 - 18.30	as above, slightly lighter, more weathered brown mat'l, 2-3% lite green chips, occ qtz and calc, frequent bright reddish smear of oxidation mat'l coating grains; trace sulphides only.
18.30 - 21.35	silty smooth lite brown sample with few lite-med green visible chips; scattered assorted dark grey chips, whitish qtz/calc, or rusty oxidized chips
18.30 - 21.35	as above with slightly more assorted chips afloat in silty muddy lite reddish brown ooze
21.35 - 24.40	as above, now again mainly just a lite orangy-brown ooze
24.40 - 27.45	as above, diarrhea-like in texture.
27.45 - 30.50	as above
30.50 - 33.55	as above
33.55 - 36.60	darker coarser sample with variety of chips, dominantly weathered reddish-brown with minor dark grey green, qtz or feldspar chips
36.60 - 39.65	very strongly oxidized deep reddish coloured chips mixed with approx 50% dark grey fine grained monolithic chips ressembling a siltstone? , oxide mat'l often as coatings
39.65 - 42.70	as above
42.70 - 45.75	as above, lighter reddish colour and more pervasive yet, est 30-40% of the dark grey chips; finer grained as it is mixed with underlying...
45.75 - 48.80	light rusty reddish fine silty/clayey sample with occ chips of above unit; similar to 24.4-27.5m.
48.80 - 51.85	mixture of above two intervals with a wider variety of chip compositions to include qtz, calc, felds/chlo and trace epid, mt.
51.85 - 54.90	as above
54.90	END OF HOLE - abandoned due to collapse of hole due to nature of material.

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
10.66	15.24	43		<10	
15.24	18.28	35		<10	
18.28	21.33	41		<10	
21.33	24.83	53		<10	
24.83	27.43	69		<10	
27.43	30.48	62		<10	
30.48	33.52	51		<10	
33.52	36.57	31		<10	
36.57	39.62	27		<10	
39.62	42.67	35		<10	
42.67	45.72	40		<10	
45.72	48.76	110		<10	
48.76	51.81	50		<10	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
51.81	54.86	63	<10		

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 4 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 64.05
 Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-6
 Logged by: RJA
 Date: JUN 06 1991

Objective: test previously undrilled portion of IP high
 Summary: hole abandoned at 64.05m due to loss of circulation, weakly propylitically altered, abundant hem, weathering; sulphide-poor

From	To (m)	Description
0	17.98	Overburden
17.98	21.35	medium reddish brown weathered material with oxidation products throughout, pervasive; makes recognition of minerals and relative abundances difficult, white and translucent calc and qtz grains 5-8%, hem.; minor epidote, mt as fine dissem; occ lite green felds/chl chip, sericite - similar to hole MISS-5.
21.35	39.65	as above, samples very similar down to 39.65m, slight variance in mineral abundances or grain sizes only; no sulphides noted but for rare trace of fine py.
39.65	42.70	fine clayey/silty soft, lite red-brown sample with chips 'afloat' in the ooze; chips a light grey mottled
42.70	45.75	as above, but majority of chips now a deep red crystalline oxidized, abundant magnetite, hematite.
45.75	48.80	as above 39.65m, chips somewhat coarser and with a more reddish tint - hematite even more abundant; chips that are not red are an even dk grey, fine grained - 30%.
48.80	51.85	as above
51.85	54.90	as above
54.90	64.05	increase in orange-red colour and lightening now due to oxidation staining primarily, as opposed to hematite content as above; no sulphides noted; increase in qtz and feldspar white chips over last 6m
64.05		END OF HOLE - fractured broken ground, loss of circulation

From	To	Cu	Mo	Au	Ag
m	m	ppm	ppm	ppb	ppm
17.98	21.33	31		<10	
21.33	24.38	28		<10	
24.38	27.43	20		<10	
27.43	30.48	21		<10	
30.48	33.52	24		<10	
33.52	36.57	22		<10	
36.57	39.62	14		<10	
39.62	42.67	13		<10	
42.67	45.72	26		<10	
45.72	48.76	27		<10	
48.76	51.81	15		<10	
51.81	54.86	19		<10	
54.86	57.91	29		<10	

From	To	Cu	Mo	Au	Ag
m	m	ppm	ppm	ppb	ppm
57.91	60.96	43		<10	
60.96	64.02	35		<10	
64.02	67.05	36		<10	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
Dates: JUNE 4 1991
Contractor: AL
DRILLING LTD.

Coordinates:
Length: 91.5 m.
Azimuth/Dip: -90 deg.
Size: Percussion 2"
Elevation:

HOLE B-7
Logged by: RJA
Date: JUN 07 1991

Objective:
Summary:

From To (m)	Description
-------------	-------------

0 - 39.6

Overburden

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 1 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 45.7m.
 MILLER Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-8
 Logged by: RJA
 Date: JUN 05 1991

Objective:

Summary: hole abandoned at 45.7m due to loss of circulation, all cpy <0.1% in sulphide-poor, weakly altered intermediate volc?

From To (m)	Description
0 - 2.74	Overburden
2.74 - 6.10	medium grey-green with overtones of orange oxidation colouring, chips up to 2mm sized variety of chips include (in order of abundance): -translucent to orange feldspars incl K-spar -dark green v fine grained chips w ghosted amphiboles crystals, <10 % of these mafic grains - 5-10% white qtz and calcite grains -accessory epidote(lite green) magnetite,
6.10 - 9.14	as above, no sulphides noted
9.14 - 12.20	considerably finer and lighter sample from those above and below; mineralogy similar to above but with less dark mafic material; no sulphides noted
12.20 - 15.25	as above the previous sample; 2-4% lite green epidote slightly less weathered material. no sulphides, diss mt.
15.25 - 18.30	as above but slightly coarser grained and more weathered/orange coloured again
18.30 - 21.35	as above
21.35 - 33.53	slightly darker overall colour with higher %age of medium to dark grey-green mafic/felds chips, (est 30%) no sulphides; content of orange oxidized chips decreases with depth of interval; est 3-4% fine dark diss mt.
33.55 - 39.65	macroscopically finer and lighter than above interval, under scope has smaller %age of darker or mafic chips; possibly a small interval of more felsic rock; traces of finely disseminated py.
39.65 - 45.75	as seen above 33.55m, but darker yet, possibly a mafic to intermediate volc/sub-volcanic; med to dark green chips of altered amphiboles(?) hosted in felds. 5-10% bright orange grains, trace epidote only, minor qtz calc, hematite, magnetite; est 1% py, trace cpy.
45.75	END OF HOLE - ABANDONED DUE TO LOSS OF CIRCULATION

HOLE B-8

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
2.74	6.10	94		<10	
6.10	9.14	97		<10	
9.14	12.19	102		<10	
12.19	15.24	83		<10	
15.24	18.29	103		<10	
18.29	21.34	78		<10	
21.34	24.38	59		<10	
24.38	27.43	85		<10	
27.43	30.48	106		<10	
30.48	33.53	83		<10	
33.43	36.58	129		<10	
36.58	39.62	431		30	
39.62	42.67	303		<10	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
42.67	45.72	277		<10	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 1 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 91.5 m.
 Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-9
 Logged by: RJA
 Date: JUN 03 1991

Objective: test IP high in previously undrilled area
 Summary: generally light coloured rock w 1-2% diss py and traces of cpy,
 1-4% mt, abundant alt'n epidote, calc, ser

From To (m)	Description
0 - 0.3	Overburden
0.3 - 6.10	large chips, some weathered and/or rusty; overall a light grey-green colour with chips of pale green and white to pinkish feldspars. Only v minor mafic minerals magnetite (2-3%) w 1-2% sulphides (py & trace Cpy). minor quartz (est 10%), sericite, calc, and epidote
6.10 - 9.14	smaller chips, less weathering. Trace py only sulphides magnetite remains abundant 2 -4 %.
9.14 - 12.20	AS above, abundant lite green chips - epidote
12.20 - 18.30	as above, note fine light micaceous material- sericite and abundant finely dissem magnetite
18.30 - 21.35	as above, slight decrease of green-pale green mineral no sulphides noted
21.35 - 24.40	as above, return of minor pale green chips - epidote est 5 - 8% , est 1% py w trace cpy.
24.40 - 27.45	significantly higher proportion of fine mafic minerals, dark green in colour, gives overall darker sample colour; remaining components same as above, abundant mt 3-4% trace py.
27.45 - 30.50	back to lighter, mafics-poor assemblage seen above the above sample, 3-4% mt and trace py
30.50 - 33.55	as above, slight increase in pale green chips-epidote
33.55 - 36.60	as above
36.60 - 39.65	as above, no sulphides
39.65 - 42.70	as above
42.70 - 45.75	as above, slightly darker grey-green colour, 2-3 % mt, still no sulphides.
45.75 - 48.80	as above
48.80 - 51.85	sudden increase in py content, est 1 - 2% euhedral py with trace cpy hosted in same material as above,
51.85 - 54.90	py content <1%, decreased from above anomalous sample
54.90 - 57.95	barren of sulphides, increase in epidote pale gr mineral otherwise same rock as in majority of hole
57.95 - 61.00	as above, trace py, abundant epidote, mt
61.00 - 64.05	as above, trace py, cpy (tarnished locally to bluish)

64.05 - 67.10 finer grained sample, slightly lighter, barren
 67.10 - 70.15 as above, possible increase in salmon coloured K-spar
 70.15 - 73.20 as above, barren
 73.20 - 76.25 as above
 76.25 - 79.30 as above
 79.30 - 82.35 traces of metallic, tarnished dk blue chips -cpy or bornite as isolated anhedral grains, trace py
 82.35 - 85.40 increase in magnetite,
 85.40 - 88.45 as above, barren
 88.45 - 91.5 as above, quite fine grained, strong epidote, barren

91.5

END OF HOLE.

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
.30	6.09	50		<10	
6.09	9.14	120		<10	
9.14	12.19	147		<10	
12.19	15.24	57		<10	
15.24	18.28	28		<10	
18.28	21.33	47		<10	
21.33	24.38	250		<10	
24.38	27.43	246		62	
27.43	30.48	227		62	
30.48	33.52	252		24	
33.52	36.75	94		24	
36.75	39.62	259		60	
39.62	42.67	174		40	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
42.67	45.72	242		<10	
45.72	48.76	194		<10	
48.76	51.81	2450		80	
51.81	54.86	683		40	
54.86	57.91	222		24	
57.91	60.96	221		42	
60.96	64.02	434		112	
64.02	67.05	182		60	
67.05	70.10	93		42	
70.10	73.15	175		112	
73.15	76.2	162		60	
76.2	79.24	402		42	
79.24	82.29	141		20	
82.29	85.34	129		<10	
85.34	88.39	103		<10	
88.39	91.44	216		24	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: Log
 Dates: May 29, 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 91.5 m
 MILLER AZimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-10
 Logged by: AMP
 Date: June 1, 1991

Objective:
 Summary: 0.38% Cu / 284' (86.6m) in 3-5% sulphide bearing K-spar, ser, mt, rich lite green unit

From	To (m)	Description
------	--------	-------------

0 - 4.9		Overburden
4.90 - 12.20		Weathered, brown chips. Less, weathered chips past 12 m.
12.20 - 15.25		Grey chips up to 2 mm, 15 % wheatered, brown chips. Pink and white feldspar, grey to green sericite, few quartz fragments, finely disseminated pyrite; 5%, variable amounts of magnetite, smaller amounts of chalcopyrite. Minor chlorite associated with sulphides. Pink chips have sparsely disseminated py and cpy. White chips have disseminated py, mag and small clusters of green sericite (altered plagioclase?). Estimated 0.1 to 0.2 % Cu.
15.25 - 18.30		As above
18.30 - 21.35		As Above
21.35 - 24.40		As Above
24.40 - 27.45		Somewhat larger chips, many 1-2 mm. More, deeper pink chips (K-spar(with sericite/chlorite clusters and abundant pyrite, chalcopyrite and magnetite (5% sulphides, 3% magnetite). Some secondary biotite with associated chalcopyrite. Also pale green chips with disseminated py and chalcopyrite. Estimated 0.4% Cu.
27.45 - 30.50		As above
30.50 - 33.55		As Above
33.55 - 36.60		As Above
36.60 - 39.65		As Above
39.65 - 42.70		No pink chips as above, all white and white/pale green fragments composed of feldspar with clusters of pale green sericite and disseminated magnetite, pyrite and rare chalcopyrite. Estimated > 0.1 % Cu. Overall 3% sulphides, 3% magnetite.
42.70 - 45.75		As Above
45.75 - 48.80		As Above
48.80 - 51.85		As Above
51.85 - 54.90		Mottled green/pink chips, composed of feldspars and sericite and with abundant disseminated, very fine grained, pyrite, chalcopyrite and magnetite. Estimated 0.1% Cu.
54.90 - 57.95		As Above

57.95 - 61.00 Pink, white and pale green chips, sulphides and magnetite are finely disseminated. Both pyrite and magnetite occur in the same chips. Some quartz chips with disseminated magnetite. Estimated 5% sulphides, 3% magnetite. Overall 0.1% Cu.

61.00 - 64.05 As Above

64.05 - 67.10 Mostly greenish chips, a few pink fragments. disseminated pyrite (3%), chalcopyrite, less abundant magnetite. Estimated 0.2% Cu.

67.10 - 70.15 As Above

70.15 - 73.20 As Above, but sulphides diminish to 1%, 2% magnetite, trace of chalcopyrite.

73.20 - 76.25 As Above

76.25 - 79.30 As above, pyrite 1%, no chalcopyrite, trace of epidote.

79.30 - 82.35 Green chips, sericite/feldspar, 1% pyrite, 2% magnetite, trace of epidote.

82.35 - 85.40 As Above

85.40 - 88.45 As Above

88.45 - 91.5 As Above

91.5 End of Hole

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
4.88	9.15	1720		70	
9.15	12.19	3480		58	
12.19	15.24	1290		<10	
15.24	18.29	862		<10	
18.29	21.34	1012		40	
21.34	24.38	3520		90	
24.38	27.43	7120		260	
27.43	30.48	2220		80	
30.48	33.53	1980		60	
33.53	36.58	8350		250	
36.58	39.62	3400		62	
39.62	42.67	3990		74	
42.67	45.72	5720		104	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
45.72	48.77	5490		116	
48.77	51.82	3970		80	
51.82	54.86	2610		40	
54.86	57.91	950		<10	
57.91	60.96	1770		<10	
60.96	64.01	4820		46	
64.01	67.06	8810		120	
67.06	70.11	4510		118	
70.11	73.15	2830		30	
73.15	76.20	5020		100	
76.20	79.25	4500		64	
79.25	82.30	4000		72	
82.30	85.34	3990		66	
85.34	88.39	4850		54	
88.39	91.4	3230		58	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 1 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 42.70 m.
 Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-11
 Logged by: RJA
 Date: JUN 05 1991

Objective: test IP high/alteration zone

Summary: hole abandoned at 42.7m in barren weathered rock w minor
 mt, hem epid. all cpy <0.02%.

From	To (m)	Description
------	--------	-------------

0 - 29	Overburden
29.0 - 33.55	weathered, oxidized material mixed with abundant dark grey fine grained chips and assorted feldspqr, quartz calcite grains of white, orange and rarely green colour. trace to minor magnetite, epidote, hem.; no sulphides overall a dark gray-green colour with scattered rusty chips; chips large - 0.5 - 3mm avg.
33.55 - 36.60	as above, still strongly weathered, finer grained.
36.60 - 39.65	as above, barren
39.65 - 42.70	as above
42.70	END OF HOLE - hole abandoned in fractured rock = loss of circulation.

From	To	Cu	Mo	Au	Ag
m	m	ppm	ppm	ppb	ppm
28.96	33.53	146		<10	
33.43	36.58	163		<10	
36.58	39.62	160		<10	
42.67	45.72	158		<10	

From	To	Cu	Mo	Au	Ag
m	m	ppm	ppm	ppb	ppm

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: May 29, 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 91.5m
 Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-12
 Logged by: AMP
 Date: June 1, 1991

Objective: test undrilled portion of IP high on LOG claims
 Summary: 0.24% Cu/264' from 10.8m-91.5m (80.7m) in ser, calc, epid - rich rock w up to 5% dissem py

From	To (m)	Description
------	--------	-------------

0 - 10.80		Overburden
10.80 - 15.25		Most (90%) chips are grey-white (feldspar, quartz, calcite), a few epidote fragments and a few green, sericitic chips. Abundant disseminated pyrite, traces of chalcopyrite.
15.25 - 18.30		As Above. pyrite 5%
18.30 - 21.35		As Above
21.35 - 24.40		As Above
24.40 - 27.45		As Above
27.45 - 30.50		As Above
30.50 - 33.55		Pale green chips increase to 20%.
33.55 - 36.60		Predominantly pale green chips (feldspar/chlorite/sericite), with disseminated pyrite, 10% white feldspar chips, 3% py, 1% magnetite, rare epidote.
36.60 - 39.65		As Above
39.65 - 42.70		Pale green and white chips, with finely disseminated pyrite and trace of chalcopyrite and some bornite in quartz, disseminated hematite. mostly feldspar chips, some quartz.
42.70 - 45.75		As Above
45.75 - 48.80		Pale green chips, feldspar/sericite, disseminated magnetite, some disseminated pyrite. epidote chips (10%). Overall 2% pyrite.
48.80 - 51.85		As Above.
51.85 - 54.90		Pale green, white and pink chips, trace of epidote chips. pyrite 3%, disseminated hematite, trace of chalcopyrite.
54.90 - 57.95		As Above
57.95 - 61.00		As Above
61.00 - 64.05		Predominantly pale green chips with finely disseminated pyrite(2%), trace of chalcopyrite. a few white chips also with sulphides. a little disseminated magnetite, rare quartz chips.
64.05 - 67.10		As Above
67.10 - 70.15		Pale green chips with abundant, disseminated magnetite (4%), much less pyrite (1%).
70.15 - 73.20		As Above
73.20 - 76.25		As Above

76.25 - 79.30 As Above
 79.30 - 82.35 As Above
 82.35 - 85.40 As Above
 85.40 - 88.45 As Above
 88.45 - 91.5 As Above, but 10% epidote chips.

91.5 End of Hole

HOLE B-12

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm	From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
10.97	15.24	4630		164		51.82	54.86	1640		72	
15.24	18.29	6650		214		54.86	57.91	890		40	
18.29	21.34	4520		80		57.91	60.96	3440		130	
21.34	24.38	5290		78		60.96	64.01	3890		170	
24.38	27.43	5200		144		64.01	67.06	2150		206	
27.43	30.48	1560		46		67.06	70.11	1570		52	
30.48	33.53	1340		60		70.11	73.15	1790		58	
33.53	36.55	1070		40		73.15	76.20	1280		40	
36.55	39.62	910		<10		76.20	79.25	1270		<10	
39.62	42.67	2270		120		79.25	82.30	1620		60	
42.67	45.72	1860		86		82.30	85.34	2210		70	
45.72	48.77	1110		54		85.34	88.39	1180		<10	
48.77	51.82	1830		76		88.39	91.44	1290		80	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 4 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 91.5 m.
 MILLER Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-13
 Logged by: RJA
 Date: JUN 07 1991

Objective: test previously undrilled portion of IP high
 Summary: 2-3% sulphides dissem throughout w py>cpy hosted in light coloured epid, ser, chl - rich material w minor K-spar

From To (m)	Description
0 - 1.0	Overburden
1.0 - 6.10	variety of chips dominated by mottled light green sub-rounded chiphosting mixture of felds/chl/amph/calc +/- pyroxene, ser, mt, qtz; epidote throughout, est 5-8% lite apple green coloured chips of epid/feld; est 2-3% finely dissem euhedral py w trace cpy (<0.2%) overall sample colour a light grey-green, very little change through entire hole.
6.10 - 9.14	epid-bearing apple green chips at 25% now, py @ 2% diss fine cubes
9.14 - 12.20	AS above, note minor salmon pink K-spar, finer grained siltier sample; py decreased to < 1%.
12.20 - 15.25	as above, minor hematite, est 10% lite green epid chips
15.25 - 18.30	as above
18.30 - 21.35	as above, increasing salmon pink coloured chips-Kspar bearing to est 15%, mt @ 1-2%, py < 1%.
21.35 - 24.40	as above
24.40 - 27.45	as above
27.45 - 30.50	slightly darker green due to sharp rise in amount of chlorite altered amphibole and/or pyroxene, sharp increase of py to 3% diss euhedral fine xtals K-spar pink grains seen above now absent
30.50 - 39.65	as above the above sample, back to lighter colour w est 2% diss py, back to 1-2% pink K-spar chips.
39.65 - 42.70	as above, still est 1% diss py
42.70 - 45.75	as above, somewhat lighter sample, abundant epid, 2% py
45.75 - 48.80	as above
48.80 - 51.85	as above w about 3% salmon pink grains
51.85 - 57.95	as above, slightly darkr w 20% pinkish K-spar, 1% py
57.95 - 61.00	decrease of med green chips resulting in lighter sample more calc, 10% pinkish K-spar, 5% apple green epid <1% py
61.00 - 64.05	as above the previous sample w 15% pink Kspar and 1-2% py
64.05 - 91.45	as above to end of hole remains unchanging but for minor variances in %ages of pink grains, epid, py

91.5

End of Hole

HOLE B-13

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
.91-	6.10	350		<10	
6.10-	9.14	1140		76	
9.14-	12.19	234		<10	
12.19-	15.24	141		<10	
15.24-	18.29	137		<10	
18.29-	21.34	145		<10	
21.34-	24.38	804		24	
24.38-	27.43	1320		42	
27.43-	30.48	698		44	
30.48-	33.53	702		300	
33.43-	36.58	1840		1354	
36.58-	39.62	4000		206	
39.62-	42.67	1470		62	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
42.67-	45.72	806		104	
45.72-	48.77	2320		102	
48.77-	51.82	1450		92	
51.82-	54.86	928		60	
54.86-	57.91	1140		34	
57.91-	60.96	1140		162	
60.96-	64.01	4030		172	
64.01-	67.06	2670		98	
67.06-	70.10	1920		58	
70.10-	73.15	1240		24	
73.15-	76.20	1250		22	
76.20-	79.25	1210		<10	
79.25-	82.30	1030		<10	
82.30-	85.34	1240		<10	
85.34-	88.39	990		<10	
88.39-	91.44	940		<10	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: May 30, 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 90.5m
 MILLER AZimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-14
 Logged by: AMP
 Date: June 1, 1991

Objective: Test IP high/alteration zone.
 Summary: Hole intersected hematite/magnetite rich diotite or andesite alternating with pyrite rich sections. Only traces of copper mineralization.

From To (m)	Description
0 - 3.35	Overburden
3.35 - 9.15	Pale colored, white to pastel green chips, mostly feldspar, disseminated pyrite (2%). Very few weathered chips.
9.15 - 12.20	As Above
12.20 - 15.25	Mostly white chips, a few pale green and a few mottled green/white. Mostly feldspar, a few quartz and calcite. Finely disseminated pyrite. No chalcopyrite seen.
15.25 - 18.30	As Above
18.30 - 21.35	As Above
21.35 - 24.40	As Above
24.40 - 27.45	As Above
27.45 - 30.50	Mostly white chips and also mottled white/green chips, with finely disseminated pyrite often associated with pale green sericite. Some disseminated magnetite.
30.50 - 33.55	As Above
33.55 - 36.60	Pale green, feldspatic chips, with disseminated hematite, also quartz and calcite chips, much less pyrite than in above intervals, trace of chalcopyrite.
36.60 - 39.65	As above, 1% pyrite
39.65 - 42.70	As above
42.70 - 45.75	As Above
45.75 - 48.80	Mostly mottled green/white chips (chlorite/feldspar) with abundant disseminated hematite, a little pyrite, rare chalcopyrite in quartz chips
48.80 - 51.85	Lighter colored chips than in intervals above. White and pale green chips, disseminated pyrite, little hematite or magnetite. Trace of chalcopyrite.
51.85 - 54.90	As above
54.90 - 57.95	As above
57.95 - 61.00	Mostly even colored, pale green feldspar chips, speckled with hematite and a little pyrite, trace of chalcopyrite, rare epidote chips. Chlorite visible in some of the fragments. estimated 5% hematite(magnetite), 1% pyrite.
61.00 - 91.5	Chips are similar to the end of the hole

91.5

End of Hole

HOLE B-14

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
3.35	9.15	740		<10	
9.15	12.19	880		<10	
12.19	15.24	1010		66	
15.24	18.29	1200		50	
18.29	21.34	900		40	
21.34	24.38	780		<10	
24.38	27.43	707		40	
27.43	30.48	680		<10	
30.48	33.53	586		<10	
33.53	36.58	480		<10	
36.58	39.62	300		<10	
39.62	42.67	2000		60	
42.67	45.72	1110		<10	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
45.72	48.77	388		<10	
48.77	51.82	597		50	
51.82	54.86	448		<10	
54.86	57.91	896		<10	
57.91	60.96	603		<10	
60.96	64.01	763		40	
64.01	67.06	739		<10	
67.06	70.11	550		<10	
70.11	73.15	432		<10	
73.15	76.20	411		<10	
76.20	79.25	430		<10	
79.25	82.30	403		<10	
82.30	85.34	410		<10	
85.34	88.39	348		<10	
88.39	91.44	481		40	

PERCUSSION DRILL HOLE RECORD

MISSEZULA BC.

page-1

Claim: LOG
 Dates: JUNE 2 1991
 Contractor: AL
 DRILLING LTD.

Coordinates:
 Length: 91.5 m.
 MILLER Azimuth/Dip: -90 deg.
 Size: Percussion 2"
 Elevation:

HOLE B-15
 Logged by: RJA
 Date: JUN 07 1991

Objective: test open area within large IP anomaly
Summary: sulphide poor rock with abundant propylitic alt'n minerals - epid, K-spar, ser, chl, and magnetite; cpy <0.1% except one sample of 1250ppm

From	To (m)	Description
0	8.23	Overburden
8.23	12.20	fine grained, medium dirty green coloured sample; chips a mixture of light minerals (70%) - felds/qtz/calc (rx'n w HCl) +/- sericite, pinkish K-Spar(5-8%) and medium green felds/chl (amph/pyrx)/ser chips; abundant black mt (3-4%) no sulphides noted much of the hole is very similar in appearance and apparent composition.
12.20	15.25	as above, abit greener due to decreasing surface effect
15.25	18.30	as above but chips a bit larger and exhibiting more signs of weathering/oxidation, distinctly more sericite alt'n
18.30	21.35	as above, trace v fine euhedral py; occ hematite
21.35	24.40	as above, orange alteration product - sericite coating over most of the light feldspathic chips mt still abundant up to 4% est.
24.40	54.90	as above, slight increase in K-spar to 8%, also incr py to approx 1%, abundant sericite altered chips
39.65	42.70	as above, trace epidote, trace cpy
54.90	57.95	slight decrease in pinkish chips to est 3%, same for the yellow-orange (sericite?) chips, py still dissem 1% mainly within the pale white/green chips
57.95	61.00	as above
61.00	64.05	as above
64.05	67.10	as above, increase to 5 % light apple green chips of epidote, 3% pink chips
67.10	70.15	as above
70.15	73.20	as above, unchanged
73.20	76.25	as above
76.25	79.30	as above, minor hematite; fine grained sample
79.30	91.50	as above, monotonous, py still est 1% dissem without prejudice though rarely assoc w the yel-orange grains
91.5		End of Hole

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
8.23	12.19	216		<10	
12.19	15.24	414		<10	
15.24	18.29	387		<10	
18.29	21.34	501		<10	
21.34	24.38	714		<10	
24.38	27.43	472		<10	
27.43	30.48	665		50	
30.48	33.53	461		<10	
33.53	36.58	411		<10	
36.58	39.62	416		<10	
29.62	42.67	446		<10	
42.67	45.72	645		<10	
45.72	48.77	607		<10	

From m	To	Cu ppm	Mo ppm	Au ppb	Ag ppm
48.77	51.82	1250		40	
51.82	54.86	701		<10	
54.86	57.91	546		38	
57.91	60.96	534			
60.96	64.01	545		24	
64.01	67.06	645		60	
67.06	70.10	516		60	
70.10	73.15	451		26	
73.15	76.2	618		20	
76.2	79.25	971		24	
79.25	82.30	845		20	
82.30	85.34	922		46	
85.34	88.39	883		76	
88.39	91.44	742		48	

MISSEZULA LAKE-WD

Job V 91-0260R

REPORT DATE 26 SEP 1991

LAB NO	FIELD NUMBER	DRILL INTERVAL		Cu(1) %	Au(1) G/T	Au(1) OZ/T
		FROM (METERS) FEET	TO			
R9103217	B-10	16.00	30.00	0.17	0.137	0.004
R9103218	B-10	30.00	40.00	0.34	0.103	0.003
R9103219	B-10	40.00	50.00	0.12	0.069	0.002
R9103220	B-10	50.00	60.00	0.10	0.069	0.002
R9103221	B-10	60.00	70.00	0.11	0.069	0.002
R9103222	B-10	70.00	80.00	0.35	0.069	0.002
R9103223	B-10	80.00	90.00	0.74	0.411	0.012
R9103224	B-10	90.00	100.00	0.22	0.069	0.002
R9103225	B-10	100.00	110.00	0.18	0.069	0.002
R9103226	B-10	110.00	120.00	0.86	0.206	0.006
R9103227	B-10	120.00	130.00	0.35	0.103	0.003
R9103228	B-10	130.00	140.00	0.41	0.103	0.003
R9103229	B-10	140.00	150.00	0.60	0.137	0.004
R9103230	B-10	150.00	160.00	0.57	0.137	0.004
R9103231	B-10	160.00	170.00	0.39	0.103	0.003
R9103232	B-10	170.00	180.00	0.26	0.069	0.002
R9103233	B-10	180.00	190.00	0.09	0.069	0.002
R9103234	B-10	190.00	200.00	0.17	0.069	0.002
R9103235	B-10	200.00	210.00	0.50	0.103	0.003
R9103236	B-10	210.00	220.00	0.88	0.240	0.007
R9103237	B-10	220.00	230.00	0.47	0.137	0.004
R9103238	B-10	230.00	240.00	0.28	0.103	0.003
R9103239	B-10	240.00	250.00	0.51	0.103	0.003
R9103240	B-10	250.00	260.00	0.45	0.103	0.003
R9103241	B-10	260.00	270.00	0.39	0.137	0.004
R9103242	B-10	270.00	280.00	0.39	0.137	0.004
R9103243	B-10	280.00	290.00	0.48	0.171	0.005
R9103244	B-10	290.00	300.00	0.33	0.137	0.004
R9103245	B-12	36.00	50.00	0.44	0.171	0.005
R9103246	B-12	50.00	60.00	0.67	0.309	0.009
R9103247	B-12	60.00	70.00	0.46	0.137	0.004
R9103248	B-12	70.00	80.00	0.53	0.171	0.005
R9103249	B-12	80.00	90.00	0.52	0.240	0.007
R9103250	B-12	90.00	100.00	0.15	0.171	0.005
R9103251	B-12	100.00	110.00	0.12	0.137	0.004
R9103252	B-12	110.00	120.00	0.10	0.069	0.002
R9103253	B-12	120.00	130.00	0.07	0.034	0.001
R9103254	B-12	130.00	140.00	0.22	0.171	0.005
R9103255	B-12	140.00	150.00	0.18	0.137	0.004
R9103256	B-12	150.00	160.00	0.10	0.103	0.003
R9103257	B-12	160.00	170.00	0.17	0.171	0.005
R9103258	B-12	170.00	180.00	0.15	0.103	0.003
R9103259	B-12	180.00	190.00	0.08	0.069	0.002
R9103260	B-12	190.00	200.00	0.34	0.137	0.004
R9103261	B-12	200.00	210.00	0.38	0.206	0.006
R9103262	B-12	210.00	220.00	0.21	0.171	0.005
R9103263	B-12	220.00	230.00	0.14	0.137	0.004
R9103264	B-12	230.00	240.00	0.17	0.103	0.003
R9103265	B-12	240.00	250.00	0.12	0.069	0.002
R9103266	B-12	250.00	260.00	0.12	0.103	0.003
R9103267	B-12	260.00	270.00	0.15	0.103	0.003

LAB NO	FIELD NUMBER	DRILL INTERVAL		Cu(1)	Au(1)	Au(1)
		FROM (METRES)	TO	%	G/T	OZ/T
R9103268	B-12	270.00	280.00	0.20	0.103	0.003
R9103269	B-12	280.00	290.00	0.10	0.069	0.002
R9103270	B-12	290.00	300.00	0.12	0.103	0.003
R9103382	B-13	20.00	30.00	0.09	0.103	0.003
R9103383	B-13	30.00	40.00	0.02	0.034	0.001
R9103384	B-13	40.00	50.00	0.01	0.034	0.001
R9103385	B-13	50.00	60.00	0.02	0.034	0.001
R9103386	B-13	60.00	70.00	0.02	<0.034	<0.001
R9103387	B-13	70.00	80.00	0.08	0.034	0.001
R9103388	B-13	80.00	90.00	0.13	0.103	0.003
R9103389	B-13	90.00	100.00	0.07	0.069	0.002
R9103390	B-13	100.00	110.00	0.06	0.411	0.012
R9103391	B-13	110.00	120.00	0.15	1.577	0.046
R9103392	B-13	120.00	130.00	0.36	0.309	0.009
R9103393	B-13	130.00	140.00	0.12	0.103	0.003
R9103394	B-13	140.00	150.00	0.08	0.137	0.004
R9103395	B-13	150.00	160.00	0.21	0.137	0.004
R9103396	B-13	160.00	170.00	0.15	0.137	0.004
R9103397	B-13	170.00	180.00	0.10	0.103	0.003
R9103398	B-13	180.00	190.00	0.11	0.103	0.003
R9103399	B-13	190.00	200.00	0.21	0.137	0.004
R9103400	B-13	200.00	210.00	0.40	0.274	0.008
R9103401	B-13	210.00	220.00	0.23	0.137	0.004
R9103402	B-13	220.00	230.00	0.17	0.069	0.002
R9103403	B-13	230.00	240.00	0.12	0.103	0.003
R9103404	B-13	240.00	250.00	0.11	0.069	0.002
R9103405	B-13	250.00	260.00	0.10	0.069	0.002
R9103406	B-13	260.00	270.00	0.09	0.069	0.002
R9103407	B-13	270.00	280.00	0.11	0.069	0.002
R9103408	B-13	280.00	290.00	0.10	0.069	0.002
R9103409	B-13	290.00	300.00	0.09	0.034	0.001

I=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED
 IF REQUESTED ANALYSES ARE NOT SHOWN ,RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

Cu(1) ASSAY

Au(1) FIRE ASSAY; LEAD COLLECTION / GRAVIMETRIC FINISH

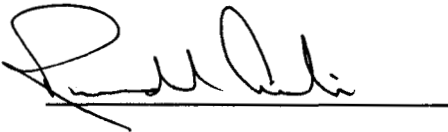
Au(1) FIRE ASSAY; LEAD COLLECTION / AA FINISH (LOW LEVEL) 1/2 A.T.

**APPENDIX C
AFFIDAVIT**

In the matter of the B.C. Mineral Act and in the matter of a percussion drill program carried out on the LOG 1 - 4 mineral claims located in Nicola mining division of British Columbia, specifically, in NTS sheet 92H/15E;

I Randal J. Aulis of the city of New Westminster in the province of British Columbia, do make oath and say:

1. that I am employed as a geologist by Cominco Ltd. and as such have personal knowledge of the facts to which I hereinafter depose.
2. that annexed hereto and marked as Appendix A to this my affidavit is a true copy of expenditures incurred in a percussion drill program on LOG 1 -4 mineral claims.
3. that the said expenditures were incurred between the 13th day of May and the 5th day of June, 1991, for the purpose of mineral exploration on the above noted claims.


A handwritten signature in cursive script, appearing to read 'Randal Aulis', is written over a horizontal line.

R. J. Aulis
Geologist,
Cominco Ltd.

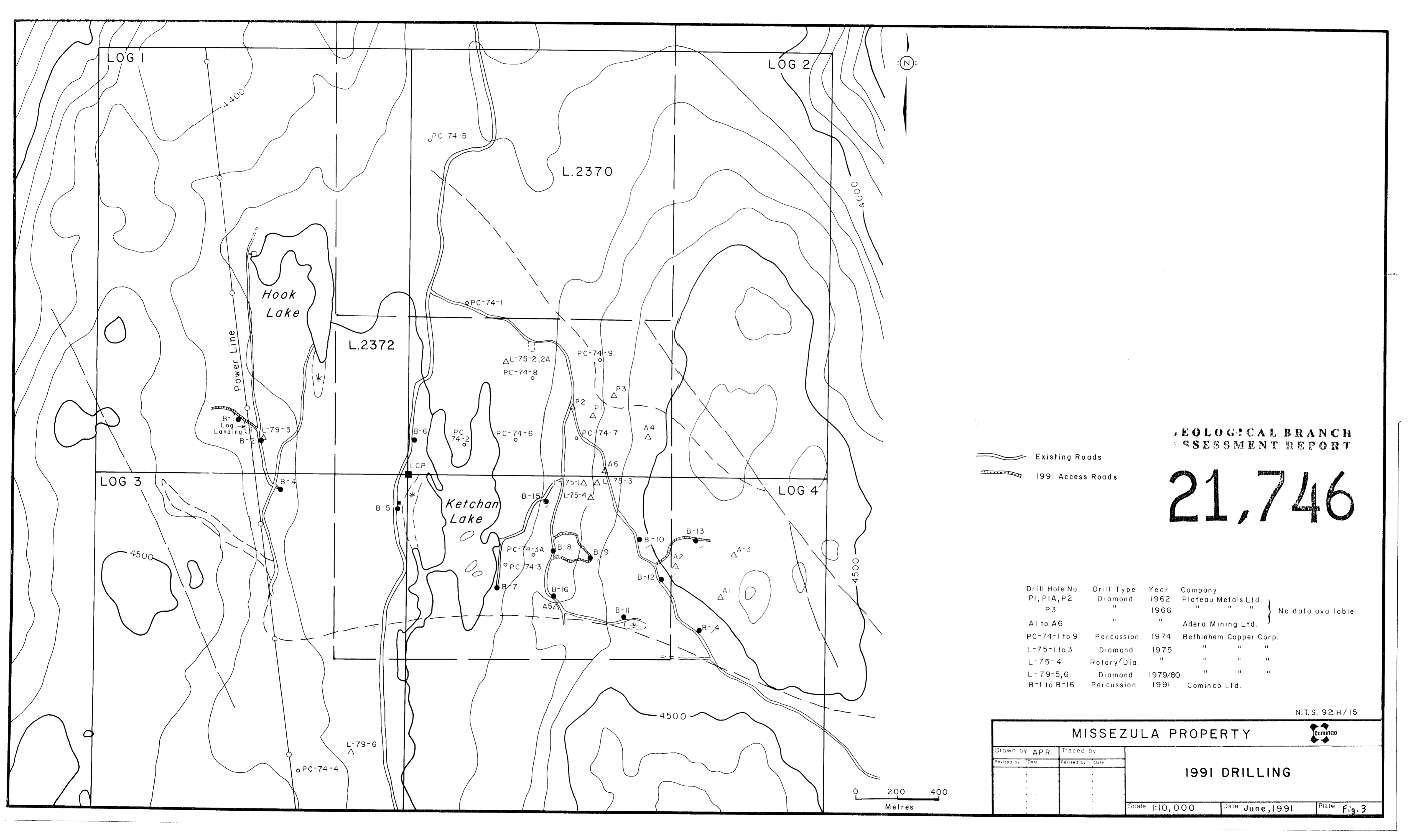
**APPENDIX D
STATEMENT OF QUALIFICATIONS**

I, Randal J. Aulis , with a business address in Vancouver, British Columbia and a residential address in New Westminster, British Columbia hereby certify that:

1. that I have been employed as a geologist since 1985 by Cominco Ltd. with a business address at 700 - 409 Granville St., Vancouver, British Columbia, V6C-1T2.
2. that I graduated with a B.Sc. (Hons) Earth Sciences degree from the University of Waterloo in 1986.
3. that I personally supervised the percussion drilling work on the LOG claims and have interpreted the data.



R. J. Aulis
Geologist
Cominco Ltd.



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,746

Existing Roads
1991 Access Roads

Drill Hole No.	Drill Type	Year	Company	
P1, P1A, P2	Diamond	1962	Plateau Metals Ltd.	} No data available
P3	"	1966	" " "	
A1 to A6	"	"	Adera Mining Ltd.	
PC-74-1 to 9	Percussion	1974	Bethlehem Copper Corp.	
L-75-1 to 3	Diamond	1975	" " "	
L-75-4	Rotary/Dia.	"	" " "	
L-79-5,6	Diamond	1979/80	" " "	
B-1 to B-16	Percussion	1991	Cominco Ltd.	

N.T.S. 92 H/15

MISSEZULA PROPERTY



Drawn by APR	Traced by
Revised by	Date

1991 DRILLING

Scale 1:10,000 Date: June, 1991 Plate Fig. 3