



TYPE OF REPORT/SURVEY(S)	TOTAL COST
Summary of Diamond Drilling	\$79,553.58

AUTHOR(S) C.M. Rebagliati SIGNATURE(S) *[Signature]*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED March 4/85 YEAR OF WORK 1984

PROPERTY NAME(S) Buck Creek - Beth 1 Group of Claims

COMMODITIES PRESENT Zinc, Silver, Gold

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Omineca NTS 93L/7E

LATITUDE 54°18' north LONGITUDE 126°38' west

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Godfrey, Buck, Lorne, HC, Cloud, Beth 1-5 (70 units)

OWNER(S)

- (1) Cominco Limited
- (2) Lorne Hansen (Estate)  
Gerry Creech

MAILING ADDRESS

200 Granville Street  
Vancouver, BC

OPERATOR(S) (that is, Company paying for the work)

- (1) Selco Division -  
BP Resources Canada Limited
- (2)

MAILING ADDRESS

700-890 W. Pender Street  
Vancouver, BC V6C 1K5

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Upper Cretaceous intermediate to felsic subaerial flows and pyroclastics and intruded by dacitic feldspar porphyry dykes and sills. All units are pervasively pyrite-carbonate-sericite altered and are intensely fracture controlled. Pyrite-sphalerite sulphide veinlets carry minor arsenopyrite and tetrahedrite.

REFERENCES TO PREVIOUS WORK

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS		COST APPORTIONED
GEOLOGICAL (scale, area)				
Ground	.....	.....		.....
Photo	.....	.....		.....
GEOPHYSICAL (line-kilometres)				
Ground	.....	.....		.....
Magnetic	.....	.....		.....
Electromagnetic	.....	.....		.....
Induced Polarization	.....	.....		.....
Radiometric	.....	.....		.....
Seismic	.....	.....		.....
Other	.....	.....		.....
Airborne	.....	.....		.....
GEOCHEMICAL (number of samples analysed for ....)				
Soil	.....	.....		.....
Silt	.....	.....		.....
Rock	.....	.....		.....
Other	.....	.....		.....
DRILLING (total metres; number of holes, size)				
Core	NQ - 1247 metres - 8 holes	Buck, Lorne, Beth. A.		\$79,553.58
Non-core	.....	.....		.....
RELATED TECHNICAL				
Sampling/assaying	.....	.....		.....
Petrographic	.....	.....		.....
Mineralogic	.....	.....		.....
Metallurgic	.....	.....		.....
PROSPECTING (scale, area)				
PREPARATORY/PHYSICAL				
Legal surveys (scale, area)	.....	.....		.....
Topographic (scale, area)	.....	.....		.....
Photogrammetric (scale, area)	.....	.....		.....
Line/grid (kilometres)	.....	.....		.....
Road, local access (kilometres)	.....	.....		.....
Trench (metres)	.....	.....		.....
Underground (metres)	.....	.....		.....
TOTAL COST				\$79,553.58

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)	.....	.....	.....	
Value of work approved	.....	.....	.....	
Value claimed (from statement)	.....	.....	.....	
Value credited to PAC account	.....	.....	.....	
Value debited to PAC account	.....	.....	.....	
Accepted .....	Date	Rept. No.	.....	Information Class

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1984 ASSESSMENT REPORT OF DIAMOND DRILLING

ON THE

BUCK CREEK PROPERTY

NTS 93L/7E

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,425**

OWNER: Cominco Ltd.,  
#2300 - 200 Granville Street  
Vancouver, B.C.  
V6C 2R2

Lorne Hansen and Gerry Creech

OPERATOR: BP Resources Canada Limited  
#700 - 890 West Pender Street  
Vancouver, B.C.  
V6C 1K5

SUMMARY AND CONCLUSIONS

Placer gold was discovered in Bob Creek around 1914. Subsequent prospecting indicated the intensely altered rocks within the Bob Creek Canyon as the likely source of the gold. Exploration on the property has since been carried out by numerous companies searching for a variety of metal deposit types. The geological environment in which the Buck Creek property occurs is a favourable host for low grade, large tonnage, precious metal deposits. With this deposit type as an exploration target, the property was optioned by Selco from Cominco Ltd. in 1983. Following Selco's 1983 program of limited surface exploration and drilling of ten NQ diamond drill holes, Selco-BP undertook the drilling of eight NQ diamond drill holes comprising 1247 metres in 1984.

1984 diamond drilling has identified the presence of a gold-silver zone in hole 83-13. The drilling has also reconfirmed the presence of a large, intense hydrothermal alteration zone geochemically enhanced in gold, silver, zinc and indicator elements arsenic and antimony. Carbonate and sericite alteration encompasses the entire area drilled.

Coincidence of alteration and enhanced geochemical gold, silver, zinc, antimony and arsenic values indicated good potential for gold mineralization. Continued exploration is required to adequately assess the precious metal potential of this alteration zone.

#### RECOMMENDATIONS

Continued exploration is required to adequately assess the precious metal potential of this alteration zone.

## INTRODUCTION

During 1983, the Buck Creek property was optioned by Selco Inc. from Cominco Ltd. to assess the potential of a large hydro-thermal alteration zone with coincident soil geochemical anomalies for a large tonnage, low grade precious metal deposit.

The property has a long history of exploration, beginning with the discovery of placer gold in Bob Creek in 1914, and subsequent identification of the intensely altered rock in the Bob Creek Canyon as the likely source.

This report provides a summary of the diamond drilling carried out in 1984 by Selco.

## LOCATION AND ACCESS

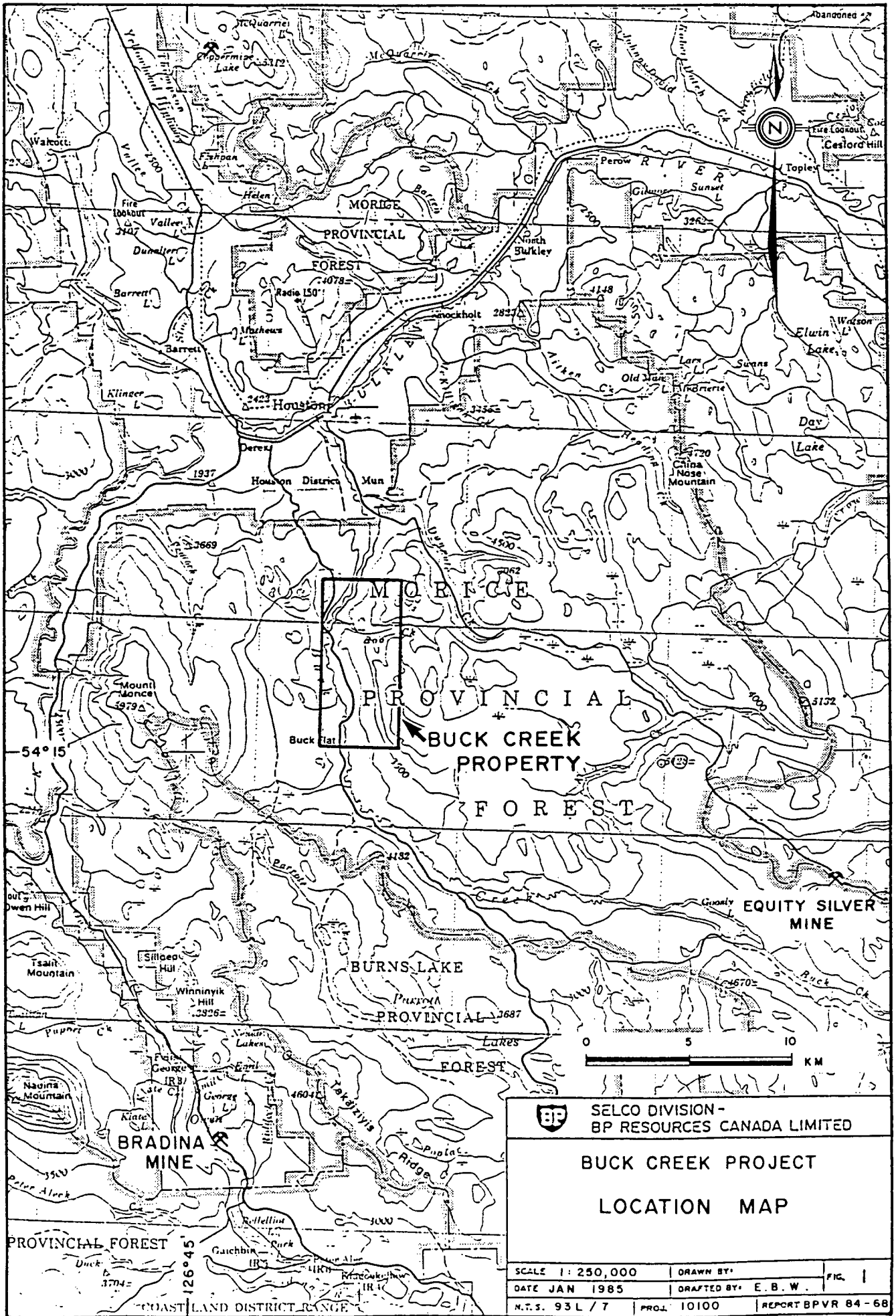
The Buck Creek property is located 15 km south of Houston, B.C. near the junction of Bob and Buck Creeks at latitude  $54^{\circ}18'N$  and longitude  $126^{\circ}38'W$  on NTS map 93L/7E (Fig. 1).


Access is via the Buck Flats road south from Houston and by range roads along Bob Creek.

Elevations range between 830 and 1080 metres above sea level.

Vegetation is mixed, and consists of open forests of spruce, pine and poplar, as well as grassy open hilltops.





 <b>SELCO DIVISION - BP RESOURCES CANADA LIMITED</b>		
<b>BUCK CREEK PROJECT LOCATION MAP</b>		
SCALE 1: 250,000	DRAWN BY:	FIG. 1
DATE JAN 1985	DRAFTED BY: E. B. W.	
M.T.S. 93 L / 7	PROJ. 10100	REPORT BPVR 84-68

CLAIMS

As of February 15, 1985 the status of the claims to which this report pertains were as follows:

Beth 1 Group (70 Units - February 24, 1984)

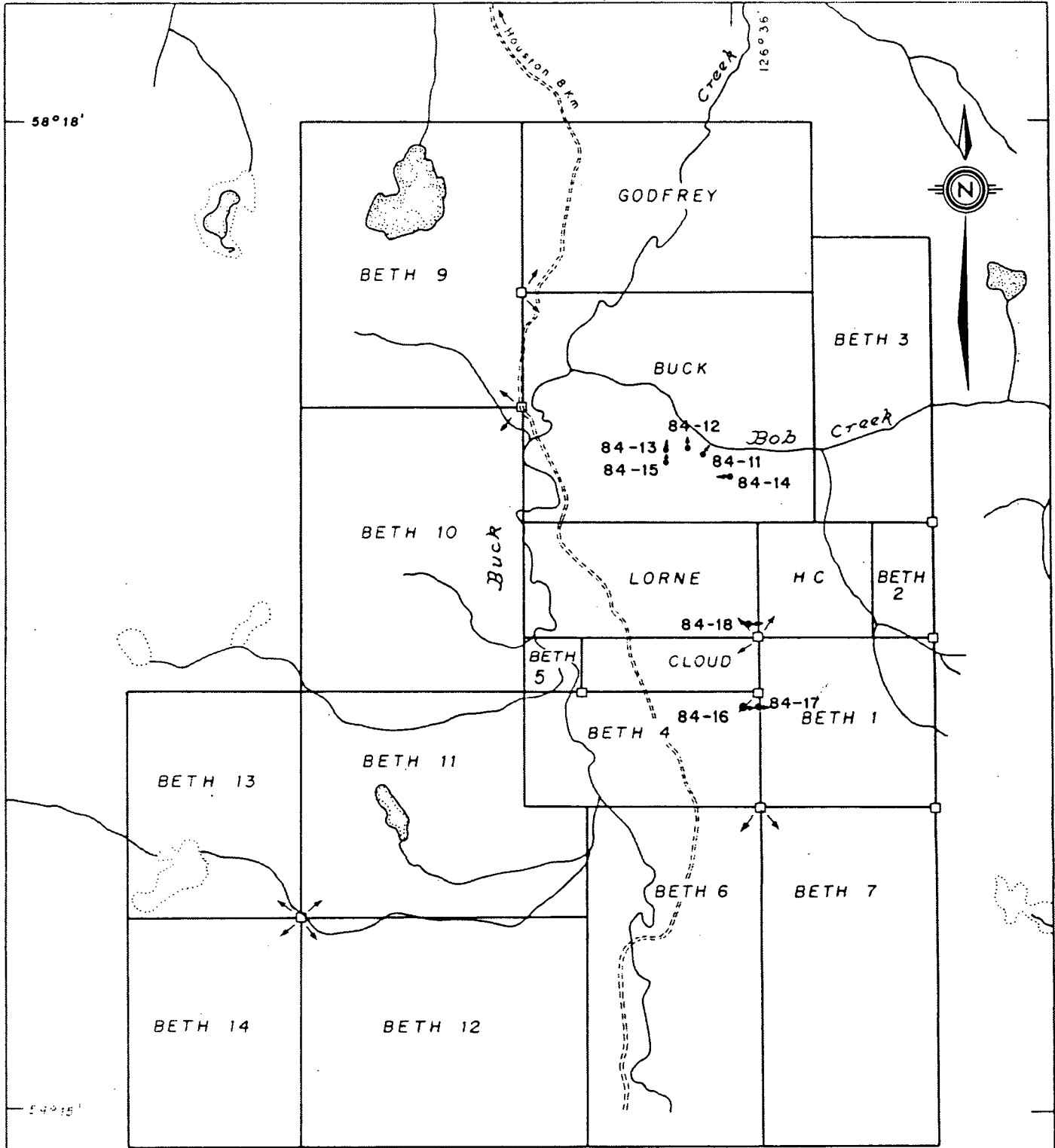
<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Mining Division</u>	<u>N.T.S.</u>	<u>Recording Date</u>	<u>Expiry Date</u>
Godfrey*	317	5	Omineca	93L/7E	June 7/76	June 7/93
Buck*	1334	20	Omineca	93L/7E	June 21/78	June 21/93
Lorne*	1333	8	Omineca	93L/7E	June 21/78	June 21/93
HC*	1335	4	Omineca	93L/7E	June 21/78	June 21/93
Cloud*	812	3	Omineca	93L/7E	Oct. 11/77	Oct. 11/91
Beth 1**	3622	9	Omineca	93L/7E	Mar. 02/81	Mar. 02/93
Beth 2**	3623	2	Omineca	93L/7E	Mar. 02/81	Mar. 02/93
Beth 3**	3624	10	Omineca	93L/7E	Mar. 02/81	Mar. 02/93
Beth 4**	3625	8	Omineca	93L/7E	Mar. 02/81	Mar. 02/93
Beth 5**	3626	1	Omineca	93L/7E	Mar. 02/81	Mar. 02/93

\*Owned 50/50 by Lorne Hansen and Gerry Creech  
 \*\*Owned by Cominco Ltd.

Figure 2 shows the distribution of the claims.

GEOLOGY

Property geology consists of faulted andesitic to dacitic tuffs and flow rocks and dacitic volcanoclastic rocks. The faulting, poor outcrop exposure and wide drill hole spacing has prevented



SELCO DIVISION -  
BP RESOURCES CANADA LIMITED

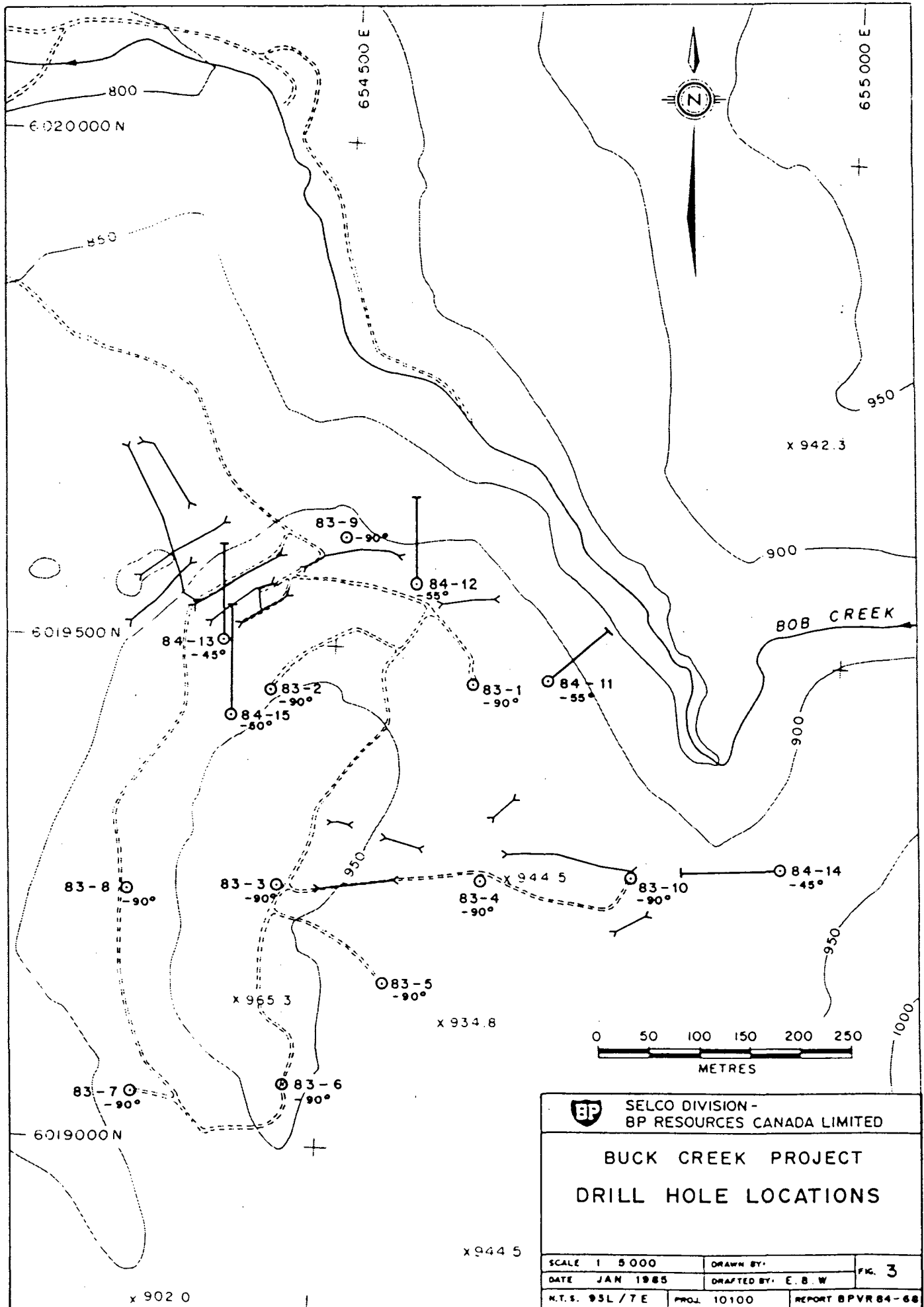
BUCK CREEK PROJECT  
LOCATION & ACCESS


SCALE: 1:50,000	DRAWN BY:	FIG. 2
DATE: JAN 1985	DRAFTED BY: E. B. W.	
M.T.S. 93 L/7 E	PROJ. 10100	REPORT BPVR 84-68

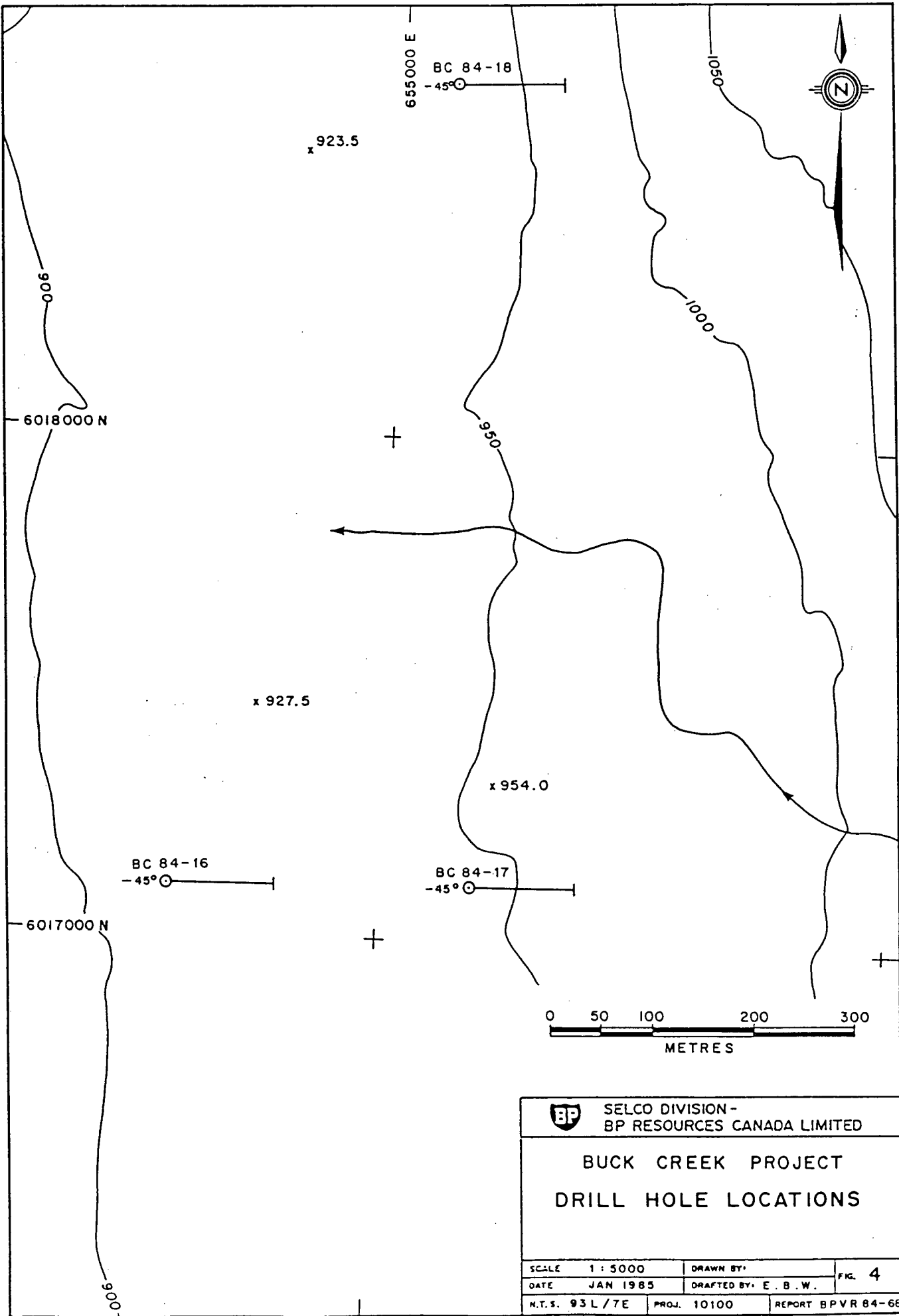
the determination of an orientation of the rocks. Interpretation of diamond drill core suggest the rocks have a moderate dip to the south or southeast. Numerous quartz-feldspar and feldspar porphyritic dacite dykes and quartz-feldspar porphyritic polyolithic breccias (brecciated dyke margins) intrude the volcanic and volcanoclastic rocks. The dyke rocks and associated breccias increase in abundance and cumulative thickness toward the Bob Creek Canyon. Dacitic volcanoclastic rocks are also most prevalent around the Bob Creek Canyon. The abundance of dykes, breccias, volcanoclastics and faults suggests the rock within and immediately adjacent to the Bob Creek Canyon may represent infilling within a volcano-tectonic depression or volcanic edifice.

#### DIAMOND DRILLING

A total of eight NQ diamond drill holes comprising 1247 metres were drilled on the Buck Creek property in 1984. All of the core was split and sampled over three metre intervals. Drill hole locations are shown in Figure 3, and 1984 holes which are the subject of this report are prefixed with the year (i.e. 84-15). Table 1 provides a summary of drill hole statistics.



 SELCO DIVISION - BP RESOURCES CANADA LIMITED		
<b>BUCK CREEK PROJECT DRILL HOLE LOCATIONS</b>		
SCALE 1 5000	DRAWN BY:	FIG. 3
DATE JAN 1985	DRAFTED BY: E. B. W.	
N.T.S. 93L / 7 E	PROJ. 10100	REPORT BPVR 84-68




 <b>SELCO DIVISION - BP RESOURCES CANADA LIMITED</b>		
<b>BUCK CREEK PROJECT DRILL HOLE LOCATIONS</b>		
SCALE 1 : 5000	DRAWN BY:	FIG. 4
DATE JAN 1985	DRAFTED BY: E. B. W.	
N.T.S. 93 L / 7E	PROJ. 10100	REPORT BPVR 84-68

TABLE 1  
DIAMOND DRILL HOLE STATISTICS

Hole No.	Azimuth	Dip Angle	Depth
84-11	050 <sup>o</sup>	-55 <sup>o</sup>	149.70 m
84-12	000 <sup>o</sup>	-55 <sup>o</sup>	160.67 m
84-13	002 <sup>o</sup>	-45 <sup>o</sup>	150.00 m
84-14	270 <sup>o</sup>	-45 <sup>o</sup>	153.96 m
84-15	002 <sup>o</sup>	-50 <sup>o</sup>	183.54 m
84-16	090 <sup>o</sup>	-45 <sup>o</sup>	147.26 m
84-17	090 <sup>o</sup>	-45 <sup>o</sup>	152.44 m
84-18	090 <sup>o</sup>	-47 <sup>o</sup>	<u>148.48 m</u>
		<u>TOTAL</u>	<u>1246.05 m</u>

The presence of a gold-silver mineralized zone was identified in hole 84-13. For detailed information on this zone as well as the geology, alteration, mineralization and geochemical results for the drill holes the reader is referred to the drill logs included in Appendix 1.

COST STATEMENTDiamond Drilling

JT Thomas Diamond Drilling Ltd.  
1247 metres @ \$57.73/metre

\$71,931.58

Geochemical Analysis

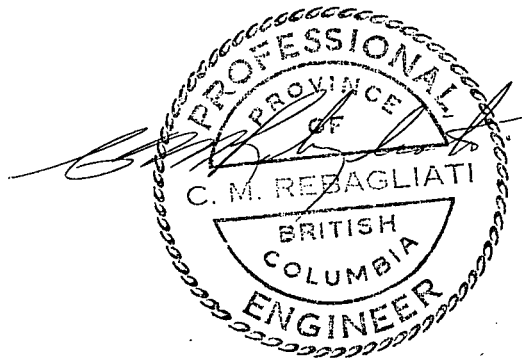
412 Samples  
@ \$18.50/sample

7,622.00

TOTAL

\$79,553.58

One year applied to Godfrey, Buck, Lorne, HC, Beth 1-5 (67 Units)





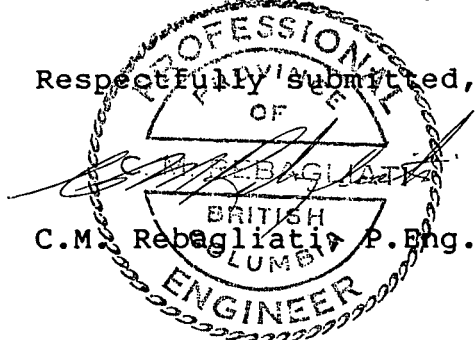
CERTIFICATE

I, C.M. Rebagliati, of Vancouver, in the Province of British Columbia, hereby certify the following:

1. That I am a registered Professional Engineer in the Province of British Columbia.
2. That I have practised my profession since graduation from the Haileybury School of Mines of Ontario in 1966 and from the Michigan Technological University in 1969 with a B.Sc. degree in Geological Engineering.
3. That I am presently employed by Selco Division - BP Resources Canada Limited in Vancouver as Senior Geologist.
4. That I personally examined the property to confirm and evaluate the exploration program.

Respectfully submitted,

C.M. Rebagliati P. Eng.



Vancouver, B.C.  
February, 1985

APPENDIX 1  
DIAMOND DRILL LOGS

EXPLORATION  
WESTERN CANADA**DRILL LOG**

HOLE NO. BC 84-11

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 14, 1984.	PROJECT: BUCK CREEK
J. T. THOMAS DIAMOND DRILLING.		COLLAR	55°	050°	DATE COMPLETED: August 16, 1984.	N.T.S.: 93L/7E
		76.22 m	61°		COLLAR ELEV.: 942 metres	LOCATION: <i>Core is located on the property. I. Trinder is B.Sc. Western U., now working on M.Sc.</i>
		143.29 m	63°		NORTHING: (UTM) 6019477	DATE LOGGED: Aug. 29-Sept. 1, 1984
					EASTING: (UTM) 654710	LOGGED BY: Ian Trinder.
HOLE TYPE DDH					DEPTH: 149.70 m 491 ft.	
					CORE SIZE: NQ	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
0.0	9.80	Casing								
9.80	19.88	QFP Bx.	Grey	Coarse	Porph. Frags.	Carb.	Py, Sph.	~5-10 Clean-Overall!		
					Pervasive			~2-3 Sulph. Overall		A fragmental rx. with a cement grey matrix supporting angular to rounded clasts. Clasts generally subangular to angular. Clast sizes range from 2 mm to 5 cm dia.
					Local Silica			~5-7° Sulph. Fracts.		Ave. 1-2 cm. Clasts of variable composition: 1) Very pale greenish grey Qtz. feldspar porphyritic 2) Very pale greenish grey aphanitic 3) Beige grey aphanitic 4) Pale maroon aphanitic and fine porphyritic 5) med. grey aphanitic. Clasts are matrix supported and make up 20-35% of rx. The QFP fragments are most abundant. Unit is poorly sorted. The rock is carbonate altered carb. as dissem. and as pseudomorphs of plag.
								17.67 18.57		From 10.9-13.04 the rock contains abundant dark grey silica veinlets and microveinlets generally at a low angle to the core axis. (10°E Ave.).
					The rock contains occasional bright green "bleb" ~ 1 mm diam. doesn't appear flakey but could still be fuchsite? Groundmass also contains sil Qtz. phenos generally 1 mm size.					Silica veined zone also at 13.90-14.12 veinlets appear to be filling open space fract. and contain 2-5 mm fragments of host rock. One 2 cm wide veinlet 10° to core axis contains 2-3% angular blebs of Sph. and 2-3% dissem. and blebby. Most of the silica veinlets carry Py.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-11

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS	
											The rock itself contains 1-2% dissem. and blebby Py. The pyrite is commonly found replacing carb. Pseudos in fragments and is here up to 5% of the frag.
											17.67 - 18.57 Rock contains 1-4 mm wide Sph.-Py. veinlets. Sphal. and pyrite are also dissem. and blebby. Through this zone Sph. 5-7% Py-3-5%.
											Lower contact 60° to core axis.
19.88	24.65	QFP									Med. grained. Rock comprises a very fine groundmass light greenish grey colour hosting ~25% 1-3 mm carb. pseudos after plagioclase and 3-5% angular Qtz. phenocrysts. The rock also contains 1% white mica and 1-2% dissem. ~1 mm Py euhedra.
											A 2 cm wide chill margin (or fine interbed) at top of unit. Contains no quartz phenos.
											20.20 - 22.76: The rock contains pale maroonish grey silica vein? which contains ~45% fragments (angular, silica supported) some which are QFP but many are exotic i.e., pale maroon fine grained porphyritic; pale grey aphanitic. The silica vein contains ~1% dissem. and blebby Py. and is 15° to C.A. One bleb

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Sph. seen.
										Similar "veins" are located at 21.5-21.55 (2 cm wide, irreg. orientation, some parallel CA; 22.38 ~ 2 cm wide; 22.79-22.99 ~ 2 cm wide).
										Ireg. Diffuge 45° to CA.
										24.15 - 24.25    24.35 - 24.45 ~ 4 cm wide 30° to CA.
										These "clastic veins" may also be xenoliths of volcanoclastic in the dike.
										Fault gouge 21.55 - 22.09
										Fault gouge 23.29 - 24.65 m. 55° to CA.
										22.69 - 22.89 ~ 2-3% dissem. sphal. Occasional sphal. bleb. sporadic thru. section.
24.65	33.08	QFP Breccia	Greenish Grey	Coarse	Clastic Poorly bedded.	Carb.	Py.Sph.	Up to 30+ locally gen. Fe oxide stained.		Similar to 9.80-19.88. Groundmass is greenish grey in colour and is composed of fine to very fine xtal pseudos (after Plag.?) and lithics. The groundmass hosts a variable clast content from < 10% to > 60% (clast supported) the clasts are angular to subrnd. gen. subangular. Clast size varies from < 0.2 cm to 22.0 cm. Ave. 1-2 cm clast compositions variable and similar to 9.80-19.88.  Rock clasts include 1) pale maroon v. fine prophyritic



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-11

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										and aphanitic, 2) green-grey QFP includes a 22 cm clast,
										3) pale greenish grey aphanitic includes a clast which was Qtz. veined prior to incorporation into the unit,
										4) pale greenish-grey aphanitic. Some of the clasts as mentioned were veined prior to incorporation others occasionally exhibit very fine laminae possibly flow banding?
										A rare clast is a dark grey very fine dissem. Py. rich clast.
										22.48 - 23.38: A bed within the volcanoclastic which grades up hole. The upper 30 cm is dominated by matrix feld. porphyritic (occasional Qtz. grain and white mica flake). Upper contact 40° to CA. Lower contact 65° to CA. Lower contact very sharp upper contact less distinct.
										Another fine grained grey unit from 30.5 - 31.21. Fault gouge at each contact in addition to dark grey silica veinlet. Orientated 040° top 30° bottom.
										Lower contact of volcanoclastic (33.08) oriented 50° CA. Contact very irreg. and undulose. Fragments of underlying rock type are found at the base of the volcanoclastic (ripups).

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										The rock contains up to 2% very fine dissem. pyrite euhedra. In addition occasional bleb or granular pyrite and sphal. one sphal. and galena + minor carb. veinlet (5 mm max.) 50% gal. 50% sphal. ~45° to CA. located at 32.22 m.
										Carbonate dissem. throughout rock as well as pseudo-morphing plag. phenos in groundmass. Also random distributed dark to lt. grey silica veinlets. Carbonate forms matrix to fragments 29.29 - 29.34 m.
33.08	35.69	Dacite xtal lithic tuff.	Pale maroonish to grey.	Fine	Massive Porphyritic.	Carb. dissem. and pseudos	Py.	30+ ( 5 Py. filled)		Fine, maroon tinted grey xtal lithic tuff, very fine grained matrix containing 10% 1 mm carb. pseudos (some up to 5 mm). ~ 1-2% black aphanitic fragments 1-2 mm angular, 1-2% pale grey aphanitic frags. 1-3 mm angular.
										The rock contains 1-2% very fine dissem. Py. and occasional Py. micro-veinlet. Unit contains a rare fragment up to 1-2 cm (angular). Upper contact fault gouge/rubble. Lower contact indistinct ~ 45°?
35.69	41.62	Dacite xtal lithic tuff.	Pale maroon to grey.	Med.	Massive Porphyritic Fragmtl.	Carb. dissem. pseudos	Py.	10 (2 carb.)		A pale maroon and greenish grey "mottled" xtal lithic tuff. The rock contains ~ 20% white carb. pseudos ~ 1-2 mm diam. The maroon to grey very fine matrix also hosts up to 10% polyolithic angular-subangular

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
											gen. $\leq$ 0.5 cm diam. The fragments range from pale grey aphanitic and dark grey aphanitic to porphyritic fragments do range up to 2 cm subrounded, however several white carbonate veinlets crosscut core.
											Unit contains $<$ 1% very fine dissem. Py.
41.62	42.12	QFP	Green	Med.	Porphyritic.	Carb. dissem. and pseudos.	Py.	5.			QFP with 20% green-white carb. pseudos after plag. (1 mm-5 mm) 5% 3-7 mm Qtz. phenos $\sim$ 2% white mica rocks with hexagonal x-section. Rock has a very fine groundmass. Rock hosts 1-2% very fine dissem. euhedral Py.
											Contact orientations unknown.
42.12	52.14	Dacite Tuff	Pale Beige to Grey	Fine	Porphyritic.	Carb. dissem. and pseudos. minor Silica veinlets	Py	80+	Py. & Silica		A fine grained lt. beige/lt. grey porphyritic tuff. Very fine grained groundmass hosts $\sim$ 10-15% $\leq$ 1 mm carb. pseudomorphs after plag. The groundmass probably carries abund. dissem carbonate judging from its beige colour. (Ferro-carbonate because little or no reaction with 10% HCL).
											Abundant grey to maroon silica micro veining suggests the rock has been brecciated and subsequently sealed.
											The rock is also crosscut by beige coloured microveinlets and veinlets suggestive of carbonate veining.





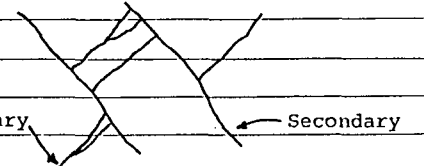
EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-11

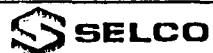
INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										The unit carries several interbeds of coarse clastics. subrnd. to subangular ave. ~1 cm. The contacts are quite irregular (and at times somewhat gradational?)
										46.65 ~47.00.
										48.65 ~49.30. Contacts are irreg. Gen. low angle to CA. 10-30°
										Upper bed contains a QFP fragment.
										Mineralization 1-2% dissem. py. Minor Py filling microfractures. Very minor black silica microveinlets. One rare discont. veinlet of sphal. seen.
52.14	53.50	Dacite tuff.	Lt. Maroon Grey.	Fine	Porphyritic	Carb. silica.	Py, Sph, Aspy.	100+ 20% Carb. 10% Silica 70% Sulph.		Pale maroonish grey xtal tuff. Very fine groundmass hosts ~ 10-15% white 1 mm carb. pseudomorphs. The rock is corsscut by abundant off-white discontinuous carb. veinlets and grey silica microveinlets. Upper contact orient unknown, may be gradational. Lower contact orient ~50° Mineralization: Pyrite occurs as dissem. and as microveinlets. Total Py.

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS	
											2-3% sphalerite occurs in microveinlets commonly associated with Py. Two small Sph-Py microveinlets contain ~1% arseno-pyrite. (53.08 m).
53.50	54.20	Dacite tuff	Grey to Maroonish Grey	V. Fine	Porph.	Carb. Silica	Py	180+ 50% Py (Sph. and Arseno) 45% Silica 5% White Carb.			Upper contact 50° to CA. Lower contact 40° to CA. Fine grained porphyritic tuff containing 5-10% ≤ 1 mm carb. pseudomorphs (after plagioclase?)  The rock is crosscut by abundant microveinlets of dark grey silica and lesser off-white carbonate. Veinlets up to 2 mm wide and generally randomly oriented particularly the microveinlets < 1 mm in size. The larger microveinlets (very few) 30-38° to CA. The small microveinlets are gen. discontinuous.  The rock contains ~ 3 % dissem. blebby and microveinlets of Py. The microveinlets are gen. 1 mm wide and discontinuous. Commonly some pyrite associate with the carbonate veinlets carry no sulphide. Near base of unit ( ) the rock has extensive carb. alteration with somewhat ovoid shape i.e., doesn't include entire circumference of the core.  A 4.0 cm x 2.5 cm ovoid structure elongate parallel to Ca. with concentric zoning located at 53.63 m may represent a
						No sphal. seen,		Silica veinlets			

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										fragment with a reaction rim (or a large accretionary lapilli?)	
										53.85 - 54.15 Brecciated zone. Fragments of host rx. rounded to subangular with a matrix of off-white carb. matrix (~10%).	
										Lower contact irregular and angular. Lower 2 cm of unit appears somewhat brecciated with a carbonate matrix.	
										Random micro fracture/microveinlet at 53.63-53.73 m actually quite uniform in slabbed section secondary microveinlet ~60° to Ca. Primary microveinlet ~45° to Ca.	
											
										A 2 mm silica veinlet at has open space filling. (53.90 m)	
54.20	55.05	Qtz.-Feldspar Porphyritic Breccia.	Pale Greenish Grey.	Coarse	Porphy. Fragm.	Carb. Silica Serc.	Py, Sph. AsPy	50+ ~20% Clean ~20% Silica ~60% Sulphide		Rock has matrix similar to that of the QFP It. greenish grey in colour it hosts ~1-2% irregular shaped Qtz. phenocrysts up to ~7 mm size and ~10-15% white carb.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										Pseudomorphs ave. 2-3 cm euhedral. At time of logging the pseudomorphs are already weathering beige in colour (Fe-rich). The matrix also hosts ~15% pale grey-white irregular shaped angular "fragments" which may also contain the quartz eyes and weathered carbonate pseudomorphs but often appear aphanitic. These fragments will only react poorly to HCl test but may be a mix of carb. and sericite. These fragments are altered but they may be actually alteration patches and not altered fragments. Rare white mica flake in matrix.
										Mineralization 2% very fine dissem. Py. ~1-2% blebby and discontinuous microveinlets of Py/marcasite which occasionally cores the carb. pseudos of rims (or occasional internally development within) the "fragments". Upper 20 cm of unit contains <1% sphal. as an occasional bleb.
										Lower 35 cm the sphal. content increases to ~2% in form of blebs and microveinlets. Associated with the sphal. is ~1% Py. and <1% arsenopyrite as granular grains up to ~1 mm dia. commonly these grains have grown outside of the original veinlet borders suggesting the Py and AsPy in these sphal. veinlets are later than the sphal. AsPy at 54.70.
										This increase in mineralization may be related to a 7 cm with clastic black silica vein described below.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										54.55 - 54.75: Several dark grey to light grey silica microveinlets and veinlets filling open fractures crosscut some discontinuous Py microveinlets very late stage (post mineral) and probably related to the black silica vein.
										Larger veinlets between 20 and 40° to C.A. Some microveinlets sulphide and silica are up to 70° to C.A.
55.05	55.12	Fragmental Silica Vein.	Black	Aphanitic	Fragmt.	Silica				A 70 cm black silica vein which carries ~20% angular fragments of rock from both upper and lower rock types plus some exotics. The vein is zoned with a 1 cm less fragmental outer zone.
										The vein carries ~3-5% dissem. grains and blebs of Py and < 1% dissem grains and blebs of AsPy. The fragments also contain Py and AsPy grains. The fragments are dominated by brecciated silica sealed tuff like that of the underlying unit.
55.12	59.40	Dacite Tuff.	Lt. Grey to Med. Grey	V. Fine	Porphy.	Carb. Silica	Py.Sph. Arseno	Up to 100+		Very fine grained grey matrix hosts up to 10% ≤ 1 mm carb. pseudomorphs (ave. ~ 5%).
										55.12 - 55.85 and 56.45 - 56.90: The rock contains extensive black silica veinlets and microveinlets up to 1 cm wide making up to 15% of the core locally. The rock appears to have been fractured with subsequent introduction



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INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PERMETRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										of the silica. The larger veinlets commonly carry angular fragments of the host rx. as well as angular blebs and dissem. grains of pyrite and arseno Py. No sphal. with the black silica. The host rock is a very lt. grey in the areas of extensive silica veining and med. grey with slight maroon tint in less extensively veined areas.
										Carbonate is present as pseudomorphs (after plag?) and as microveinlets and blebs in areas where silica veining is not intensive.
										Py is present as dissem. grains and blebs in silica veinlets (~2% of veinlet); as dissem. grains and blebs within the host rock, 1-2% (blebs commonly have a carb. rim); and as grains within one sphalerite veinlet observed.
										Arsenopyrite is present in the silica veinlets and sphal. veinlet in the same form as Py. it is not dissem. in the host rock. One sphal. (+Py, Arsenopy) veinlet observed.
										Arsenopy - Silica veinlets $\leq 1\%$ of veinlet - Sphal. veinlet $\leq 1\%$ of veinlet Sphal.      - Host rock $< 1\%$ .
										The rock commonly contains (micro) fractures only partially filled by silica.
										Two carbonate patches (angular) probably pseudomorphs of fragments 6 X 2 and 6 X 4 cm 58.81 m. Fractures and silica

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										microveinlets crosscut both tuff and fragments.
59.90	60.98	QFP	Beige	Coarse	Fragmt.	Carb.	PY	30+		Dominated by QFP fragments. (> 50%) also present are pale maroon aphanitic fragments and lesser pale grey aphanitic fragments. Fragments are generally subangular to subrounded. ave. ~ 1cm but may be as large as 5 x 4cm. The rock is ~ 40% fragments. The remainder is carbonate rich matrix which weathers beige which together with the greenish grey fragments gives the rock a mottled appearance. And occasional Qtz eye occurs in the groundmass as well as card pseudomorphs (after plaq).
		BRECCIA	to		Mottled	Silica				
			Greenish Grey							
										The Rx contains ~ 1% very fine dissem. Pyrite and ~ 1% granular blebs of PY.
										60.06 - 60.16 fault gouge.
60.98	62.00	Dacite Tuff	Med. Grey	V. Fine	Porphy.	Carb.	PY	100+		Similar to 55.12 - 59.90 upper contact. 45° to CA lower contact. 61.52 - 62.00 contact B/W dacite and lower unit runs parallel to CA. Rock hosts ~ 10-15% < 1mm carb. Pseudomorphs after plac. there are also abundant discontinuous carb. microveinlets. Ave ~ 55° to CA.
						Silica				
							Minor silica; sulphide; and open space.			The rock contains ~ 1-2% pyrite as very fine dissem. grains and as granules along carbonate and silica veinlets and microveinlets.

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FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										Silica microveinlets cen. trend. 20° to CA crosscutting carb. microveinlets.
										One large carb. altered patch 6cm x 3cm crosscut by silica veinlet. (60.23m).
										Rock gen. has a pale maroon tint.
62.00	64.96	QFP BRECCIA	Greenish Grey to Beige	Coarse	Fragmt.	Carb. Silica	PY			Similar to 59.90 - 60.98. Generally coarse grained 1-2cm dia. angular to subangular. Clasts include QFP, pale grey aphanitic dacite and pale maroon aphanitic to porphyritic dacite. The rock consists of ~50% matrix supporting the clasts. Matrix is carbonate rich, weathers beige. Some fragments have been brecciated and sealed with silica and carb. prior to incorp. into the volcaniclastic late silica veinlets crosscut matrix and fragments. Contains fragments of underlying tuff ~ 1-2% dissem. Py. Throughout the rock tends to be more abundant in the carb rich matrix also occasionally develops as cores to the carb. pseudomorphs.
						Contains fragments of overlying dacite tuff.				Occasional Qtz eye in the matrix. ~ 10% carb. pseudos in the matrix.
64.96	66.65	Dacite Tuff	Maroon to Grey	V. fine	Porph.	Carb. Silica	PY	100+		Very fine grained tuff hosting up to 10%-15%-1mm carb. pseudomorphs. Maroon colour from 64.96 to 65.10 after which it is lt. grey. The rock contains abundant micro fractures



INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										(open space 15%, carbonate filled 35%, sulphide filled 45% and silica filled 5%). The carbonate and sulphide veinlets are syngenetic while the open space and silica veinlets (partially filling many open space fractures) are later features.
										Rock contains ~2% Py disseminated as very fine grains and as blebs and microveinlets. Generally the microveinlets of Py lack gangue minerals but if present it is carbonate. Weathers beige in colour.
										Upper contact 60° to C.A. Lower contact 66.65 - 67.05 runs parallel to CA - 5° to CA at end.
										66.06 → 66.65 dacite is brecciated (fractures) and silica sealed.
66.65	67.02	QFP Bx	Beige to Grey	Coarse	Fragmt.	Carb. Minor Silica	PY	50+		Beige weathering carbonate rich matrix hosts ~40% subangular to angular fragments up to 3 x 2cm. Ave. 0.5-1.0cm dia. Fragments range from light to medium grey aphanitic dacite clasts to maroon aphanitic to porphyritic dacite clasts.  Rock contains 1% dissem. Py. and ~2% silica coated open fractures.

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
										Lower contact 67.02-67.20 ~ 10 <sup>0</sup> to CA.	
67.02	69.37	Dacite Tuff	Pale Maroon	V. Fine	Porph.	Carb. Silica	PY Asphy.	0.7 to 100+		Very fine maroon matrix hosts ~ 10-15% 1mm carbonate pseudomorphs (after plac). The rock has been extensively fractured becoming increasingly brecciated downhole. Associated with the fracturing is carbonate developed along the fractures. As the degree of brecciation increases the carbonate becomes more matrix-like.	
								40% Carb.			
								35% Sulphide			
								15% Silica			
								10% open space			
										- in addition to the abundant carbonate veinlets are dark grey silica. Veinlets which crosscut sulphide and carb. veinlets, the silica commonly only partially fills open fractures.	
										~ 3% Py is present as disseminated grains, blebs and microveinlets (with occasional carbonate selvage) the pyrite is also present in an occasional silica veinlet. Two silica veinlets (67.76 & 67.90m) contain dissem. grains of arsenopyrite plus Py. (15% Asphy, 5% Py in veinlets). Aspy also present in black silica. Veinlet ~ 3mm wide at 68.90m. One 1.3cm accretionary Lapilli? at 68.60.	
										Fractures gen. random. Most prevalent however = 50-60 <sup>0</sup> to CA.	



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FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
69.37	72.48	QFP Breccia	Grey	Coarse	Fragmt.	Carb.	PY	100+		Polyolithic Breccia has a beige weathering carb. Rich matrix hosting subangular fragments including:
						Silica		60% Silica		1) QFP ,
								20% Sulphide		2) Very pale grey aphanitic dacite,
								20% open space		3) Pale to medium maroon, Porphyritic and aphanitic.
										The maroon clasts are dominant gen. > 80% suggesting the rock may be a monolithic breccia with a few exotic fragments. Rock contains ^ 1-2% Py along microveinlets/veinlets and as blebs. One large maroon dacite fragment or interbed from 70.92 - 71.54.
										Upper and lower contacts of unit are gradational.
72.48	73.83	Dacite Tuff	Maroonish	V. Fine	Porphy.	Carb.	PY	100+		Very fine dacite tuff similar to 67.02-69.37.
			Grey			Silica				Brecciated/fractured and cemented by carbonate.
										2% Py disseminated and microveinlets generally associated with carbonate microveinlets and patches.
										The rock is crosscut by later silica veinlets and partially filled open fractures.
										A few darker maroon fragments present towards bottom of units.



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INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
73.83	78.53	QFP Bx	Greyish Green	Coarse	Fragmt.	Carb. Silica Seric.	PY			Medium grained greyish green matrix (~ 15%-20% 1-3mm carbonate pseudomorphs in a greenish aphanitic material). Hosts up to 30% subrounded to angular fragments. (Ave. 1-2cm dia. up to 8cm). (gen. subangular). Fragments variable in composition.	
										1) Maroon aphanitic to porphyritic ~20% 2) Lt. grey aphanitic dacite ~15% 3) Greenish QFP ~40% 4) Biege highly carb. altered QFP ~20% 5) Green talc-like ~5%	
										Many fragments show brecciation and sealing with silica/carb. prior to incorp. into the volcanoclastic. This feature is not restricted to any one fragment type.	
										The matrix is carbonate rich as with all fragments except the maroon fragments.	
										The matrix contains the rare Qtz eye and mica flake. Its overall composition is similar to the QFP. The matrix is crosscut by carb. veinlets which may crosscut fragments as well.	
										~1-2% pyrite dissem. through groundmass. Most fragments except the aphanitic ones carry 1-2% dissem. Py. Some soft grey aphanitic ones have Py. Preferentially developing inside or as a rim.	



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INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
78.53	104.73	QFP Breccia	Greenish	Coarse	Fragmt.	Carb.	PY	50+		Upper contact 60° to CA.
			Grey-			Silica	Sphal.			Upper 30cm relatively finer grained than lower portion of section. Fragments are lcm Ave. The fine grained portion appears to grade down hole into a fragmental dominated by QFP fragments. The fragments range from <1cm to ~10cm. Fragments are subangular to angular with a few subrounded. > 85% of the fragments are QFP. There are two types of QFP;
			Grey			Sericite				1) A dominating beige to off-white extremely carbonated QFP in which matrix and plag are altered to carbonate, and
										2) A QFP with carbonate pseudomorphs in a very fine green-grey matrix.
										Both types contain qtz eyes. (1-2%)
										The remainder of the fragments are:
										1) Maroon aphanitic to porphyritic dacite,
										2) Grey aphanitic dacite,
										3) Soft greenish altered matics?
										Fragments make up 20-30% of the Rx and are supported by a matrix of similar composition to the relatively less altered QFP fragments.
										The matrix contains ~ 30% carbonate pseudomorphs after plag as well as a rare qtz grain 78.53-87.47. The matrix is

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										a medium grey colour and appears somewhat silicified.
										87.47 - 104.73 The matrix is more cement grey in colour. This colour change corresponds roughly to the change in QFP fragments to almost entirely heavily carbonated QFP.
										Fault Couge - 83.05 - 83.40
										88.60 - 89.94
										92.79 - 94.24
										103.14 - 104.63 (dark grey banding in gouge 25° to CA)
										Both QFP fragments and matrix carry 1-2% white mica. The cement grey matrix carries more white mica than the medium grey matrix.
										The unit hosts 2% dissem. Py. Dissem. SPH up to 1% locally is most abundant in the cement grey matrix. Rare pyrite microveinlet. There are local and sporadic grey silica veinlets and also an occasional carbonate veinlet. No preferred orientation to the veinlets. Bedding 87.75-87.90 70° to CA 5cm "beds".
104.73	149.70	Quartz	Lt. Cement	Fine	Fragmt.	Carb.	PY, SPH	50+		A fragmental rock having a cement grey matrix which makes up 70% of the rock on average. The matrix contains up to 30% 1-2mm carbonate pseudomorphs after plagioclase (pale green on fresh surface, weathering beige after several days); up
	EOH	Feldspar	Grey	to		Seric.				
		Porphyritic		Coarse						
		Breccia								



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FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										to 5% 2-3mm Qtz eyes and up to 3% white mica flakes 1-2mm.
										The matrix of this unit has a "sheared" texture compared to the matrix of the overlying unit.
										The clast content is variable from 0-40% clasts. The clasts are dominantly QFP with only an occasional exotic grey aphanitic and maroon aphanitic to porphyritic fragments. Fragments range from < 1cm to ~8cm dia. Ave. 1-2cm dia. Fragments are generally subangular to angular. Also present are occasional pale green soft talc-like fragments.
										Some of the fragments have been fractured and sealed with silica prior to incorporation.
										Zones in which rock appears to be entirely matrix.
										18.42 - 18.62
										121.68 - 122.52
										131.46 - 135.35
										141.90 - 142.38
										145.32 - 149.70
										Fault gouge- 104.88 - 105.60
										107.32 - 107.62
										109.00 - 109.10
										110.20 - 110.35



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FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										110.75 - 110.85
										112.00 - 115.25 (112.0 - 112.75 -
										Contains bright green mineral,
										pervasive and as blebs).
										116.80 - 117.29
										119.11 - 119.13
										121.55 - 121.65
										123.48 - 123.55
										126.17 - 126.35
										127.30 - 132.60
										134.00 - 135.93
										141.93 - 141.94
										143.05 - 143.30
										143.80 - 145.40
										146.10 - 147.0
										149.00 - 149.60
										Mineralization -
										This unit is distinguished by the presence of 1-2% dissem.
										sphal. grains throughout the matrix (locally up to 5%) in
										addition there are also occasional blebs and discontinuous
										microveinlets of sphalerite which also contain associated
										Py. A minor amount of carbonate gangue may be associated
										with the Sphal-Py blebs and veinlets. Total % blebs and
										veinlet sphal & Py $\leq 1\%$ sphal $\leq 1\%$ Py. The rock also conta
										2-3% fine $\leq 1\text{mm}$ dissem Py Euhedra.





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FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										The rock also contains a rare bleb of the green mineral
										112.00 - 112.75 abundant green mineral.
										Sulphides will occasionally rim fragments.
										Alteration - carbonate dissem. through matrix and
										replacing phenocrysts sericite - white mica flakes dissem.
										through matrix and in QFP fragments.

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sample data

S A M P L E				C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S							
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r	%		A M T. L O S T	P b ppm	Z n ppm	A g ppm	A S ppm	S b ppm	A u ppb FA + AA	C u ppm
803 550	9.80	13.00	3.20		90	0.31	2% Py Trace Sph.	220	4800	2.3	1250	24.0	220	64
551	13.0	16.0	3.0		82	0.54	1-2% Py Trace Sph.	77	3250	1.2	810	2.6	2350	31
552	16.0	19.0	3.0		90	0.29	2% Py 1% Sph.	330	6300	3.7	2500	1.2	650	52
553	19.0	22.0	3.0		91	0.27	1-2% Py	146	3800	2.3	670	6.0	420	65
554	22.0	25.0	3.0		86	0.42	1-2% Py Trace Sph.	148	1350	1.6	230	4.0	275	52
555	25.0	28.0	3.0		100		1% Py Trace Sph.	72	218	0.1	36	1.8	70	12
556	28.0	31.0	3.0		100		1-2% Py	61	157	0.4	53	6.4	60	14
557	31.0	34.0	3.0		67	1.0	1% Py; Trace Sph.; Trace Gal.	320	1630	1.3	81	8.0	100	12
558	34.0	37.0	3.0		100		1% Py	8	85	0.1	25	1.0	10	5
608	37.0	40.0	3.0		100		1% Py	6	72	0.1	41	2.4	15	1
609	40.0	43.0	3.0		100		1% Py	13	105	0.2	51	3.4	65	6
610	43.0	46.0	3.0		100		1% Py	56	108	0.8	85	8.2	90	
611	46.0	49.0	3.0		100		1-2% Py	72	145	1.7	63	12.2	45	
612	49.0	52.0	3.0		100		1-2% Py Trace Sph.	18	133	0.1	19	4.6	< 5	
613	52.0	55.0	3.0		100		3% Py < 1% Aspy.	78	900	0.7	690	2.0	175	
614	55.0	58.0	3.0		100		2% Py < 1% Aspy.	119	1680	1.4	1100	20.0	275	
615	58.0	61.0	3.0		100		1-2% Py	22	100	0.1	30	6.6	20	
616	61.0	64.0	3.0		100		1-2% Py	10	120	0.1	24	3.3	20	
617	64.0	67.0	3.0		100		1-2% Py	4	180	0.1	77	3.9	< 5	
618	67.0	70.0	3.0		97	0.10	2-3% Py < 1% Aspy.	108	185	0.9	1300	27.0	385	
619	70.0	73.0	3.0		100		1-2% Py	5	130	0.1	38	2.4	15	
620	73.0	76.0	3.0		100		2% Py Trace Sph.	48	167	0.3	36	3.9	20	
621	76.0	79.0	3.0		100		2-3% Py Trace Sph.	10	210	0.1	23	2.2	10	
622	79.0	82.0	3.0		100		2-3% Py	130	785	0.8	65	9.8	30	
623	82.0	85.0	3.0		90	0.30	2-3% Py	120	620	0.7	67	6.3	30	
624	85.0	88.0	3.0		67	1.00	2-3% Py	75	1400	0.8	57	8.8	20	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S ( % O R E M I N E R A L S )	A S S A Y R E S U L T S					
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p . G r	%	A M T . L O S T		P b p p m	Z n p p m	A g p p m	A S p p m	S b p p m	A u p p b P A + A A
803 625	88.0	91.0	3.0		100		2-3% Py ≤ 1% Sph.	148	2380	1.2	73	6.9	50
626	91.0	94.0	3.0		30	2.10	" 1% Sph.	110	2430	1.3	75	9.6	75
627	94.0	97.0	3.0		100		" 1% Sph.	55	3100	1.1	29	5.0	30
628	97.0	100.0	3.0		100		" ≤ 1% Sph.	86	2800	1.3	22	3.0	30
629	100.0	103.0	3.0		100		" ≈ 1% Sph.	132	1600	0.7	16	5.8	50
630	103.0	106.0	3.0		100		" ≤ 1% Sph.	135	4700	3.4	85	14.0	590
631	106.0	109.0	3.0		83	0.50	" 1% Sph.	65	8100	4.9	46	11.0	670
632	109.0	112.0	3.0		93	0.20	" 1% Sph.	57	5050	3.6	99	12.6	565
633	112.0	115.0	3.0		97	0.10	" 1% Sph.	60	6250	3.0	210	26.0	530
634	115.0	118.0	3.0		92	0.25	" 1% Sph.	130	7400	6.7	53	30.0	580
635	118.0	121.0	3.0		100		" 1% Sph.	53	8500	2.7	90	5.6	630
636	121.0	124.0	3.0		100		" 1-2% Sph.	65	8800	3.5	25	9.4	320
637	124.0	127.0	3.0		100		" 1-2% Sph.	195	>10000	9.8	130	16.8	1570
638	127.0	130.0	3.0		100		" 1-2% Sph.	85	4800	3.6	48	7.5	1880
639	130.0	133.0	3.0		100		" 1-2% Sph.	195	6800	8.2	55	15.0	1540
640	133.0	136.0	3.0		100		" 1% Sph.	83	2700	2.5	51	5.4	315
641	136.0	139.0	3.0		100		" 1% Sph.	28	1480	0.9	23	8.4	165
642	139.0	142.0	3.0		100		" 1% Sph.	35	1250	0.8	20	5.4	475
643	142.0	145.0	3.0		100		" 1% Sph.	78	5600	1.6	73	7.4	225
644	145.0	148.0	3.0		100		" 1-2% Sph.	265	>10000	5.8	36	8.0	600
645	148.0	149.70	1.70		100		" 1% Sph.	300	8500	7.2	270	15.0	730



SELCO


EXPLORATION  
WESTERN CANADA

# DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r	%	A M T. L O S T		A g A A g / t o n n e	A u g / t o n n e					
803	551						1.7	0.50						

# DRILL LOG

DRILLING CO.	LOCATION SKETCH		DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: Aug 17, 1984	PROJECT: Buck Creek
J.T. THOMAS DIAMOND DRILLING			COLLAR	55°	000°	DATE COMPLETED: Aug 18, 1984	N.T.S.: 93L/7E
			152.44m	56.5°		COLLAR ELEV.: 929 metres	LOCATION:
						NORTHING: (UTM) 6019569	
						EASTING: (UTM) 654576	
						AZIMUTH: 000°	
HOLE TYPE DDH						DEPTH: 160.67m 527ft	DATE LOGGED: Sept 5-6, 1984
						CORE SIZE: NQ	LOGGED BY: Ian Trinder

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
0.00	4.00	Casing									
4.00	6.45	Dacite Xtal	Greenish	Fine	Porph.	Carb.	PY	100+			Badly weathered and fractured. Fine grained groundmass hosts up to 5% 1 mm carb. Pseudomorphs and 2% <1 mm Qtz eyes. The matrix also contains up to 5% 1-2 mm ovoids (concentrically zoned) which may be altered fragments. Rock is crosscut by random microfractures coated with Py. (1-2%) Total Py 1-2%.
		Tuff	Grey.								
6.45	17.98	Polyolithic	Grey to	Coarse	Porph.	Carb.	PY	50+			Very fine grey to maroonish grey matrix hosts up to 10%-15% white 1-2 mm carbonate pseudomorphs; 1% 2-3 mm Qtz eyes; 25% 0.3-2.0 cm subangular to rounded polyolithic fragments including:
		Volcaniclastic	Maroonish		Fragmt.			60% Sulphide			1) Maroon aphanitic and porphyritic dacite 30%, 2) Aphanitic lt. grey dacite? 30%, 3) Aphanitic dk. grey dacite? 30%, 4) QFP 10%.
			Grey					40% Carb.			
											Carbonate is present as - 1) Pseudomorphs in matrix and fragments; 2) Replacement of clasts i.e. the lt. grey clasts are predominantly carbonate and 3) in microveinlets.
											Total carbonate 15-20%.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Py present as 1-2% disseminations, blebs and microveinlets; trace sphal (1-2% disseminated Py < 1% Py microveinlets)
17.98	21.65	Dacite Tuff	Grey	V. Fine	Porph.	Carb.	PY	50+		Very fine groundmass hosts 5-10% lmm carbonate pseudomorphs and locally up to 3% lmm subangular to subround. Green pseudomorphs possibly after mafic minerals. A rare qtz eye (≤1mm), and angular lithic fragment 2-3mm. 1-2% Py along microfractures. Carbonate in pseudomorphs and occasional microveinlet.
								90% Fe stained & Sulphide?		
								10% Carb.		
21.65	25.44	Andesite Tuff	Greyish	Fine	Porph.	Carb.	PY	100		Very fine groundmass hosts 5% 0.5mm carbonate pseudomorphs and 5%-10% 0.5mm to 0.5cm subangular to subrounded dark green to dark grey pseudomorphs after mafic minerals and lithic fragments?
			Green			CHL?		60% open		
						Minor		30% PY		
						Silica		10% Silica/ Carb.		1-2% Py along microfractures. Carbonate in pseudomorphs and occasional microveinlet. Minor silica in microveinlets with associated Py in core. Some dark green micro fractures chloritic?
										Upper contact 20° to CA.
25.44	31.40	Dacite Tuff	Grey	Fine	Porph.	Carb.	PY	up to 100 locally		Very fine matrix hosts 5-10% 1-3mm carbonate pseudomorphs and trace to 1% lmm qtz eyes. Also contains minor < 0.5mm grey to greenish grey fragments locally. Abundant green microveinlets of carbonate. Matrix also carbonate rich. Total carbonate 10-15%?
								70% Carb.		
								30% Sulphide		Pyrite occurs along microfractures 1-2%.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. 84-12

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										28.20 - 28.54 fragmental interbed 20% subangular to angular 0.5 - 2.5cm fragments supported by a carbonate rich very fine grained matrix fines up section.
31.40	37.40	Dacite Xtal	Pale	Fine	Porph.	Carb.	PY Sphal	up to 100		Very fine maroon groundmass hosts ~5% 1mm carbonate pseudomorphs. Minor local brecciation with fractures filled by carbonate.
		Tuff	Maroon					70% Sulphide 30% Carb.		Core crosscut by abundant randomly oriented Py microveinlets some with carbonate selvage. Minor sphal microveinlets often with carbonate gangue. Minor carbonate microveinlets. Total Py 2-3% Total Sph. < 1%
37.40	44.14	Qtz Feldspar	Grey	Coarse	Fragmt.	Carb.	PY Sph.	25-50		May not be a fragmental, but a margin of the QFP dike below.
		Porphyritic			Porph.			60% Carb.		
		Fragmental						40% Sulphide		A grey matrix containing up to 15% 1-3mm carbonate pseudomorphs and trace to 1% quartz eyes hosts a variety of fragments. Including 37.40-38.80 light greenish grey QFP fragments up to 6cm dia and dark grey aphanitic carbonate rich argillite? fragments up to 5cm dia. Some of these dark grey fragments are made up of angular fragments < 0.5cm. The QFP and argillite are subangular to subrounded.
										38.80-39.22 Either a large clast or interbed of the maroon dacite xtal tuff.



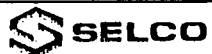
EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-12

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										39.22 - 44.14 matrix hosts up to 40% rounded to sub-angular clasts which are dominantly very fine porphyritic to aphanitic, light grey in colour. Wispy carbonate patches are common throughout the matrix.
										Carbonate present as pseudomorphs microveinlets and diffuse patches in the matrix. Total 15-20%.
										Py present along microveinlets (1-2%) Sphal present in occasional microveinlet and as grains within carbonate filled vugs. Trace to 1% locally.
										42.25-42.55 6cm wide brecciated zone 20° to CA. Sealed by Silica carbonate and minor sphal.
44.14	49.60	Qtz Feld. Porphyry Dike	Med. Grey	Med.	Porph.	Carb.	PY	20 80% Sulphide 20% Carb.		Very fine grained groundmass (grey) hosts 20% carbonate pseudomorphs 2-3mm; 1% quartz eyes 2-55mm dia. and up to 3% white mica 1-2mm.  Py present as extremely fine dissemination. Euhedra and as microveinlets. Total Py 1-2% (< 1% dissem.; 1-2% microveinlets) minor flow banding at lower contact 35° to CA.





EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-12

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
49.60	57.80	Qtz Feld.	Light	Coarse	Becciated	Carb.	PY	50+		Upper contact 27° to CA.
		Porphyry	Greenish	- med.				70% PY		Upper contact is sharp.
		Breccia	Grey					30% Carb.		
										Differs from overlying QFP in colour texture and grainsize.
										The breccia has a "sheared", disrupted texture in comparison to the massive QFP. The carbonate pseudomorphs are less defined in the groundmass and only 1-2mm in dia. The breccia fragments are extremely difficult to define because of the similarity to the matrix. (subangular-subrounded)
										✓ 1% Qtz eyes 2-3mm appear gen. confined to the fragments.
										No white mica visible.
										2-3% Py present as blebs disseminations and microveinlets (2% disseminations; 1% microveinlets). Carbonate present as Pseudomorphs and microveinlets.
										Rare maroon or grey clast.
										51.85-8cm fault gouge
										53.35 - 53.50 fault gouge
										53.66 - 6cm fault gouge
										51.85 - 53.40 zone containing 70% QFP fragments, subangular to subrounded, beige to greenish grey to maroonish grey in colour. Up to 3cm dia. The remainder of the fragments compose pale green (sericitic?) and light grey (dacitic) aphanitic and maroon very fine porphyritic (dacitic?) subangular to subrounded, 0.5-1.0cm ave.

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										Contacts faulted or broken on either end of this zone.	
57.80	60.37	Qtz Feld.	Maroonish	Fine	Porph.	Carb.	PY	50-75		Upper contact not determined.	
		Porphyry	Grey	to med.				60% PY		Maroonish grey very fine matrix.	
		(Breccia?)						40% Carb.		Hosts 5-10% carbonate pseudomorphs (1-2mm) and 1% quartz eyes 1-2mm. This rock may have also been brecciated, it lacks the massive texture of the QFP dike and the local concentration of carbonate give a hint of brecciation.	
										57.06-58.26 maroon colouration more intense with a corresponding increase in sulphide and carbonate. This could be an interbed similar to 60.37 -	
										Total Py 2-3% in blebs disseminations veinlets and microveinlets and (2% dissemination; 1% microveinlets).	
										57.06-58.26 the Py blebs and veinlets have a carbonate selvage.	
										Occasional fragment towards bottom of hole. Carbonate present as pseudomorphs, microveinlets and selvage to Py veinlets and blebs. Total carbonate 10-15%.	
60.37	67.07	Dacite Tuff	Maroon	Fine	Porph.	Carb.	PY	100		Very fine maroon groundmass hosts $\leq$ 5% 1mm carbonate pseudomorphs and a rare $\leq$ 1mm qtz eye.	
			- Grey					70% PY			
								30% Carb.			
										The core is cut by abundant Py blebs microveinlets and veinlets which generally have a beige weathering carbonate selvage/halo.	

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										Some of the carbonate patches around the Py blebs are subangular and up to 5cm dia. (possibly pseudomorphs of fragments).	
										Total Py 3-4% (3% microveinlets; 1% disseminations).	
										Carbonate present as pseudos, microveinlets and selvages. Upper contact 45° to CA.	
										61.50-62.26 polyolithic fragmental interbed. Fragments subangular to angular 0.5 to > 5cm dia.	
										Fragments include:	
										1) QFP 70%,	
										2) maroon aphanitic and very fine porphyritic dacite 20%,	
										3) light grey aphanitic dacite? 10%.	
										Interbed has 5% carbonate which filled open space B/W fragments.	
										Lower contact of interbed 45° to CA.	
										64.10-64.60; 65.05-65.25; 65.62-65.77 greenish grey carbonate rich brecciated zones.	
67.07	69.04	Argillite and MWDR Sediment	Grey	V. Fine to med.	Bedded	Carb.	PY			67.07 - 67.50 clastic bed subangular to angular fragments 0.5 - 1cm dia. polyolithic 67.30-67.50 fault gouge.	
										67.50 - 68.61 sheared argillite or extremely sheared clastic sediment. Occasional subangular - rounded clast. (grey carbonate rich to black argillite) shear foliation. 75° to CA.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										68.61 - 69.04 clastic bed. upper contact 50° to CA.
										0.3cm to 1.5cm polyolithic fragments subangular to sub-rounded light grey aphanitic carbonate rich to darkgrey argillaceous?
										60-70% clasts. Fine upsection??
										< 1% dissemination Py.
										Lower contact irregular/convolute, cut by a 1cm wide silica vein. 35° to CA.
69.04	160.67	Qtz - Feld. Porphyry Dike	Grey to Off-White to Greenish Grey	Med.	Porph.	Carb.	PY	25-100		QFP dike with textural and composition variations.
										69.04 - 70.55 Very fine grey matrix hosts. 15% 1mm to 1cm (glomerophytic) carbonate pseudomorphs (off-white); 2% 2mm-5mm qtz eyes (rounded to angular) and 2-3% 2-3mm white mica. Also contains a 1% up to 5cm subrounded very fine carbonate rich QFP xenolith.
										1-2% Py as disseminations and blebs.
										70.55 - 85.36 Gradational from above appears to be same original rock but the groundmass grades from grey locally to dominantly off-white.
										15% 1mm to 1cm off-white carbonate pseudos 2% 2-5mm qtz eyes and 2-3% 2-3mm white mica.
										1-2% Py as disseminated blebs and occasional microveinlet.
										< 1% sphal microveinlets very minor carbonate and silica microveinlets.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-12

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										From 76.50 - 80.80 the matrix is off-white to grey and the pseudomorphs are pale green. (still carbonate rich)
										Fault gouge 75.60 - 80.32 & highly fractured rock
										82.00 - 82.50
										83.20 - 83.50
										Sphal microveinlets gen. 20-45° to CA.
										85.36 - 92.68 Medium grey, very fine groundmass. Hosts 20-25% 1mm to 5mm carbonate pseudomorphs; 2-3% 3-7mm qtz eyes; 2-3% 2-3mm white mica. 1-2% Py dissemination blebs (minor <1% Py microveinlets); trace sphal microveinlets.
										Chilled margin? (90.55 - 92.68m) The OFP becomes finer grained downsection and brecciated? No longer has a massive texture but appears more sheared. Faint flow banding at 92.40 45° to CA. Xenoliths of underlying section at 91.44-91.57 (92.40-92.68)
										Fault gouge 85.36-85.86.
										92.68-94.40 very fine beige to grey argillite. Extremely

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										carbonate rich.	
										Lower 70cm contains abundant fragments dominantly the same composition as upper part of section subangular - angular 0.5cm ave. There are also rounded fragments up to 2cm dia. variable in composition. Fines upsection.	
										Fault gouge and fracturing 93.68-94.10 < 1% dissemination and microveinlet Py.	
										94.40-100.68 Light grey groundmass hosts 15% 2-5mm carbonate pseudomorphs, 1-2% 2-3mm qtz eyes; rare white mica flake .	
										Carbonate pseudomorphs generally off-white in colour but may have a greenish tinge.	
										94.40-98.40 Possible chilled and brecciated zone. Gen. finer grained but faulting makes identification difficult.	
										1-2% Py in microveinlets, blebs and disseminations trace sphal in microveinlets and dissemination.	
										Fault gouge and extreme fracturing:	
										94.40-94.85	
										95.20-100.68	
										100.68-133.20 Grey groundmass hosts 15-20% 1mm-7mm off-white to grey carbonate pseudomorphs. 2% 2mm-7mm qtz eyes and 1-2% 2-3mm white mica (variable abundance).	
										Py 1-2% in dissemination blebs and microveinlets. Dark grey silica veinlets up to 10/metre. Ave. 70° to CA. (1% Py dissemination)	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-12

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										100.68-102.50 Chilled and brecciated zone.
										102.50-102.80 Black silica zone carrying subrounded to subangular fragments of the QFP. 45° to CA.
										102.80-104.98 Gradational zone B/W chilled zone and medium grained massive zone. Fine grained showing faint flow, alignment of pseudomorphs 40° to CA.
										Silica veining displays incomplete filling of fracture. Some appear to have a 1-2cm siliceous salband.
										120.89-127.49 Matrix becomes a lighter grey possibly increased carbonate alteration? Patchy.
										Microveinlets increasing in abundance downhole. i.e. up to 100/metre. 60% silica 30% sulphide 10% carbonate.
										130.20-144.64 Very fine grey groundmass hosts 20% 1mm-7mm carbonate pseudomorphs 1-2% 2-7mm Qtz eyes and 1-3% 2-3mm white mica.
										1-2% Py in dissemination, blebs and microveinlets. (< 1% Py in microveinlets 1-2% Py dissemination)
										Silica veining much less abundant in this section compared to previous. Patchy and sporadic pervasive dark grey silification of groundmass becoming most extensive and

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										intensive. From 141.00-144 the pervasive silification is often associated with a definite silica vein.
										141.80-142.07 - QFP is brecciated and sealed with silica.
										86cm fine grained margin at upper part of section.
										Upper contact $\sim 40^\circ$ to CA.
										144.64 - 160.67 Pale greenish grey groundmass .
										Hosts 15% carbonate pseudomorphs (1mm to 5mm) 2% Qtz eyes
										2mm to 5mm very minor and local white mica.
										(1% Py in microveinlets 1% Py in dissemination and blebs)
										1-2% Py in blebs disseminations and microveinlets. Trace
										to 1% sphalerite in veinlets and microveinlets with
										associated carbonate, pyrite and in several veinlets 1%
										galena.
										Carbonate is present as pseudomorphs microveinlets and
										gangue in sulphide veinlets.
										Silica veinlets are also relatively abundant.
										Microveinlets: 60% sulphide; 30% silica; 10% carbonate.
										Section becomes slightly coarser grained downsection.
										47.00-47.50 Two sphal-Py-galena - carbonate veinlets
										0.5-1cm wide.





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EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-12

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
											Silica veinlets gen. random but most dominant ~45° to CA.

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r	%	A M T. L O S T		P b p p m	Z n p p m	A g p p m	A S p p m	S b p p m	A u p p b E A + A A	-
803 705	4.00	7.00	3.0		83	0.50	1-2% PY	-	580	1.6	170	7.6	25	
706	7.0	10.0	3.0		92	0.25	1-2% PY	-	1800	1.2	210	5.0	5	
707	10.0	13.0	3.0		100		1-2% PY	-	330	1.2	90	4.4	< 5	
708	13.0	16.0	3.0		93	0.20	1-2% PY	-	300	1.1	110	7.4	< 5	
709	16.0	19.0	3.0		100		1-2% PY Trace Sph	-	360	0.9	103	4.4	< 5	
710	19.0	22.0	3.0		100		1-2% PY	-	130	0.5	43	2.6	< 5	
711	22.0	25.0	3.0		97	0.10	1-2% PY	-	545	0.8	110	6.6	< 5	
712	25.0	28.0	3.0		95	0.15	1-2% PY	-	395	0.6	92	5.2	< 5	
713	28.0	31.0	3.0		100		1-2% PY	-	405	0.6	107	7.6	< 5	
714	31.0	34.0	3.0		100		2-3% PY	-	1100	7.4	840	67.0	65	
715	34.0	37.0	3.0		100		2-3% PY < 1% Sph	-	3700	11.0	910	50.0	400	
716	37.0	40.0	3.0		100		1-2% PY	-	515	2.8	240	13.4	20	
717	40.0	43.0	3.0		100		1-2% PY < 1% Sph	-	3850	3.6	240	12.0	80	
718	43.0	46.0	3.0		100		1-2% PY	-	535	1.5	140	7.0	5	
719	46.0	49.0	3.0		100		1-2% PY	-	84	0.3	29	3.6	< 5	
720	49.0	52.0	3.0		100		2-3% PY	-	520	2.0	240	8.6	10	
721	52.0	55.0	3.0		95	0.15	2-3% PY	-	1500	2.6	370	10.6	15	
722	55.0	58.0	3.0		100		2-3% PY	-	683	4.3	270	13.4	25	
723	58.0	61.0	3.0		100		2-3% PY	-	540	4.0	250	8.8	30	
724	61.0	64.0	3.0		100		3-4% PY	-	260	3.0	210	9.0	50	
725	64.0	67.0	3.0		97	0.10	3-4% PY	-	380	2.8	160	11.0	410	
726	67.0	70.0	3.0		100		1% PY	-	303	1.8	75	4.6	300	
727	70.0	73.0	3.0		100		1-2% PY Trace Sph	-	190	1.1	61	2.4	70	
728	73.0	76.0	3.0		100		1-2% PY Trace Sph	-	735	2.7	200	5.0	35	
729	76.0	79.0	3.0		100		1-2% PY Trace Sph	-	2130	5.1	150	5.4	30	
730	79.0	82.0	3.0		93	0.20	1-2% PY Trace Sph	-	1100	3.2	50	3.5	35	

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S					
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r	%	A M T. L O S T		P b p p m	Z n p p m	A g p p m	A S p p m	S b p p m	A u p p b P A + A A
803 731	82.0	85.0	3.0		100		1-2% PY 1% Sph	-	5680	5.2	51	9.6	190
732	85.0	88.0	3.0		100		1-2% PY <1% Sph	-	1780	2.8	94	5.2	65
733	88.0	91.0	3.0		100		1-2% PY Trace Sph	-	1830	3.3	103	14.6	70
734	91.0	94.0	3.0		100		1% PY	-	1000	2.3	110	4.4	45
735	94.0	97.0	3.0		100		1-2% PY	-	1200	3.8	88	4.6	210
736	97.0	100.0	3.0		100		1-2% PY Trace Sph	-	3200	4.5	130	8.0	100
737	100.0	103.0	3.0		98	0.05	1-2% PY	-	1380	2.0	170	11.0	85
738	103.0	106.0	3.0		100		1-2% PY	-	420	1.2	100	11.0	5
739	106.0	109.0	3.0		100		1-2% PY	-	285	0.8	99	10.4	< 5
740	109.0	112.0	3.0		100		1-2% PY	-	175	0.5	71	5.6	< 5
741	112.0	115.0	3.0		100		1-2% PY	-	235	0.7	110	9.7	< 5
742	115.0	118.0	3.0		100		1-2% PY < 1% Sph	-	1400	1.9	110	9.8	40
743	118.0	121.0	3.0		100		1-2% PY 1% Sph	-	1830	2.5	120	15.6	45
744	121.0	124.0	3.0		95	0.15	1-2% PY	-	225	1.3	83	14.2	50
745	124.0	127.0	3.0		100		1-2% PY	-	525	1.4	120	5.2	30
746	127.0	130.0	3.0		100		1-2% PY	-	193	1.6	370	13.4	120
747	130.0	133.0	3.0		100		1-2% PY	-	450	2.3	190	14.0	200
748	133.0	136.0	3.0		97	0.10	1-2% PY	-	218	2.4	83	19.0	40
749	136.0	139.0	3.0		100		1-2% PY	-	160	3.6	53	15.2	75
750	139.0	142.0	3.0		98	0.05	1-2% PY	-	112	2.4	51	16.0	40
751	142.0	145.0	3.0		100		1-2% PY	-	110	2.3	51	15.0	50
752	145.0	148.0	3.0		100		2-3% PY 1% Sph	-	238	2.8	250	14.4	175
753	148.0	151.0	3.0		100		1-2% PY < 1% Sph	-	1900	3.4	350	13.8	355
754	151.0	154.0	3.0		100		1-2% PY	-	270	1.6	290	11.6	65
755	154.0	157.0	3.0		100		1-2% PY	-	210	0.9	99	11.6	45
756	157.0	160.67	3.67		100		1-2% PY Trace Sph	-	248	1.5	90	12.8	30

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DRILL HOLE NO. 84-12



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO... BC 84-13

DRILLING CO. J.T. THOMAS DIAMOND DRILLING	LOCATION SKETCH -N-	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 19, 1984	PROJECT: Buck Creek
		COLLAR	45°	002°	DATE COMPLETED: August 20, 1984	N.T.S.: 93L/7E
		75.76m	51°		COLLAR ELEV.: 921 metres	LOCATION:
		150.00m	53°		NORTHING: (UTM) 6019505	
					EASTING: (UTM) 654387	
					AZIMUTH: 002°	
					DEPTH: 150.00mm 495ft	DATE LOGGED: August 22-24, 1984
HOLE TYPE DDH					CORE SIZE: NQ	LOGGED BY: Ian Trinder

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
0.0	6.67	Casing								
6.67	11.30	Dacite Xtal Tuff	Pale	Fine	Massive	Carb.	PY Sph.	30+		
			Maroon-		to faulty			(25% PY)		A porphyritic tuff with a very fine maroonish grey matrix hosting up to 20% 1-3mm angular, broken carbonate pseudomorphs after plag. Pseudomorph content variable suggesting faint bedding, although no sharp bedding planes are observed.
			Grey		bedded?			( 5% Sph.)		From 8.98 - 9.15m.
					Porphyritic					Upper plane 63° to CA. Lower 50° to CA. Another bed 9.15 to (9.25??) definitely to 9.61 lower plane 67° to CA. The lower contact at 11.30 is broken fragments orientation unknown. The rock is crosscut by numerous micro veinlets of PY and to a lesser extent sph. The veinlets appear to be microfrac. filling. 0-45° to CA (generally). Many microfrac/veinlets are Fe oxide stained due to weathering. One 4cm anc. carbonate rich fragment at 9.17m. One 1.5cm clastic interbed at 9.96m oriented 47° to CA consists of a soft black V.F.C. matrix hosting 20% angular fragments < 3.0mm. May be a fracture fill? Rock same on both sides. In addition to microvein Py there is ~2-3% dissemination Py. Total Py 3-4%, sphal. 1-2%. Rock appears as if may be brecciated in zones i.e. 9.61 - 9.84? The frac. at 9.17 contains up to 10% Py as blebs and micro-veinlets. From 10.91 - 11.30 the rock contains irregular carbonate patches up to 20% of rock locally. Unit is quite hard and contains dissemination carbonate (Rx barely reacts when powdered).

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
11.30	24.97	Polyolithic	Grey	Coarse	Clastic	Carb.	Sph., PY	20+		Polyolithic volcanoclastic.	
		Volcanoclastic	Matrix		Bedded	Silica	Gal, CPY	Gen		Variable clast content. < 5% to > 60% clasts range from < 0.5cm	
						as micro veins in carb. patches	Arseno	Sulphide filled		dia. to 12 x 5cm. Ave. 1-2cm dia. Clasts are generally subangular to angular but there are also subrounded clasts	
										variable clast composition -	
										1) pale to dark maroon fine porphyritic and aphanitic,	
										2) pale grey aphanitic pale greenish grey aphanitic,	
										3) green aphanitic talcy fragment,	
										4) pale beige grey aphanitic. The green and greenish grey frags contain sulphide as the matrix does. The maroon and siliceous grey frags contain no dissemination sulphide.	
										From 11.30 to ~20.30 the unit contain extensive off-white and pale grey mottled patches generally containing less clasts than the rock hosting the patches. The white portion is carbonate, the grey portion is silica (sometimes soft but harder than white carbonate) and does not react with HCL.	
										It is believed the mottled patches are due to carbonate alteration of a more matrix rich portion of the unit (or more matrix rich beds?). The patches commonly exhibit a foliation/lamination of grey silica? and off-white/grey carbonate rich material. 50° to CA at 17.10 and 18.63.	
										The mottled patches do contain fragments but generally less than non mottled zones. If these zones are beds the bedding ave. ~30cm. One "bedding plane" B/W mottled and non mottled at 15.61 65° to CA.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									Another patch at 16.16 - 16.37 upper contact 80° to CA, lower 60° to CA. A definite bedding plane at 17.51 oriented 65° to CA. Found in non mottled volcaniclastic at 17.36.	
									A clast poor mottled zone overlies a clast supported bed 15cm thick. ~60% clasts upper contact. 50° to CA, lower contact (17.51) 65°. Underlying the coarse fragmental subrounded to angular (1 - 2cm) is a fine volcaniclastic fragments < 2mm. A mottle zone appears to cut through this bed suggesting the mottled zones are altered features. Foliation at 21.10 45° to CA.	
									Mineralization: Entire unit contains pervasive dissemination pyrite and sph. as discrete euhedra (Py) and blebs (most common). ~3% dissemination blebby. Sph. 3-5% dissemination and bleb. Py in addition there are on ave. ~5 veinlets of Py and sphal per metre.	
									Several zones of intense sulphide veining. 14.70 - 15.40 - ave. content of veining 80% sph., 90% Py, 10% carbonate. (Off-white) < 1% arsenopyrite. The arseno is present as euhedral grain aggregates. Veining makes up 10-15% of the zone. Veining varies 20-60° to CA. Arseno intimately associated with sph. Arseno aggregates at 20%. 22.50 - 24.97 Veining dominated by sphal. ave. vein content. 75% sphal., 11% Py, 5% galena, 1% arseno, 1% CPY.	

EXPLORATION  
WESTERN CANADA**DRILL LOG**

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
											Galena blebs up to 1cm in size.
											Vein orientated vary from 0° - 70° to CA. Veins are open space filling as indicated by presence of numerous vugs.
											Galena often seems to be filling the vugs along with CPY.
											Genetic history sph., Py, arseno, then galena and CPY??
											Arseno when with sphal. often in bands within outer margin of sphal. vein. Arseno at 20.20 - 21.60. Minor silica with some veins minor carbonate. Minor tridymite? Filling in some vugs. Arseno veinlets at 24.0, 24.20 and 24.70.
											Ave. veinlet width 2-3mm.
											One 3cm wide at 24.48 - 24.67 and one 4cm wide at 27.26 - 27.42
											(sphal., PY, galena, CPY (silica carbonate) minor)
											Upper vein orient. 20° to CA.
											Lower vein orient. 25° to CA.
											From ~23 - 24.97 the veinlets have an orientation ave. ~20° to CA.
24.97	40.75	Dacite Xtal -	Med. Grey	Coarse	Clastic	Carb.					Upper contact with above. Orientation ~45° to CA.
		Lithic Tuff	Matrix		Bedded?	dissem. &					Rock comprises a very fine grained grey matrix.
						Pseudos					Hosting up to 15% carbonate. Pseudomorphs after plagioclase (2-3mm ave.). The larger pseudomorphs commonly have a pyrite
						silicified					bleb for a core. This unit is clast poor relative to the overlying volcanoclastic containing only up to 10% clasts locally. The "feldspar pheno" abundance is variable with
						patches &					
						diffuse veinlets					

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DRILL HOLE NO. 84-13



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										zones up to 20cm thick which generally lack phenos.
										Completely fragment abundance is also variable. However
										definite bedding planes are rare. The contacts appear to
										be gradational.
										This unit is similar to what is seen in the #3 trench and
										in the Dupont trench.
										Two possible beds.
										25.43 - 25.58 Upper contact 45° to CA. Lower contact 50° to
										CA.
										25.58 - 25.79 Upper contact 50°, lower 30° to CA.
										Clasts generally less variable in composition as well as
										lower abundance compared to overlying unit.
										1) Pale maroon fine grained porph. and aphanitic.
										2) Pale grey aphanitic, pale greenish grey aphanitic
										(talcy).
										Fragments generally subangular to angular. Some of the
										grey fragments contain 1mm blebs of the green?? mineral.
										Fragments range < 0.5cm to 7.0 x 5.0cm.
										Coarse clastic zone 28.33 - 28.73.
										Fragments ave. 3-5cm subrounded to subangular. Dark grey
										siliceous bands similar to rest of rock except for lack of
										fragment. Primary depositional feature or secondary?
										(silification). The rock has a faint mottled texture due
										to diffuse but pervasive silica veining/zoning.



# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
									Dark siliceous bands - sharp contacts.	
									29.33 - 29.80; irregular contact.	
									30.20 - 30.35; upper 50°, lower 45°.	
									30.37 - 30.43; 45° upper and lower.	
									Mineralization -	
									2-3% dissemination sph. ~3-5% dissemination and blebby Py.	
									4cm wide veinlet. 27.20 - 27.40	
									Contains 81% sph., 10% galena, 5% CPY, 3% Py, 1% Carb.	
									Sulphides dissemination through both matrix and clasts.	
									29.43	
									29.66 - 29.88 sphal. veinlets	
									32.66 - 32.78 minor galena, Py.	
									34.42 - 34.51	
									Minor sph. microveinlets and blebs throughout rock.	
									One small light grey aphanitic bed (or clast) 28.76 - 28.93	
									contains 10% microveinlets of Py with dark Mn? dendritic	
									rims. The fragments commonly carry more Py than the host	
									Rx.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										One clast supported bed 35.85 - 35.93. Lower contact 60° to CA. Upper contact fractures and broken.	
										Lower contact of unit not certain, probably at 37.14. Contact broken and fractured. Orientation undetermined.	
										Fault gouge (2cm) at 36.78.	
										Another silicified patch including fragments at 35.19 - 35.31.	
37.14	37.58		Dr. Grey	Coarse to med.	Clastic	Carb. & Silic.	Sph., PY	30+		A sheared and silicified dark grey clastic bed? (zone) Fragments/clasts polythic as in previous unit. Grainsize varies from 0.2cm to 1cm. Clasts generally subangular to angular. Clasts ~30-40% of unit. 37.20 - 37.58 Rock has been extensively silicified (dark grey) diffuse and sharp contacts on veins. Two sph. veinlets (1½cm and 1cm) with minor galena and Py at 37.38 to 37.42. 2-3% veinless dissemination Py ~2% sphal. Lower contact sheared, oriented 65° to CA.	
37.58	40.75	Fine Dacite Xtal - Lithic Tuff	Grey with Maroon Tint	Fine	Massive Brecciated	Silic. Carb.	Sph., PY Gal., CPY	100+ (30+ Sulphide)		A fine grained dacite tuff. Carries minor carbonate? Pseudomorphs after plag sporadically appears quite massive except for occasional fragments and fragmental bed 39.25 - 39.45.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
											39.65 - 39.80 Clasts are polyolithic, subangular to angular. Ranging from ~2mm to 2.0cm. The rock has been brecciated in situ i.e. very angular pieces which have a jig-saw puzzle fit. The fractures have been filled by medium grey silica. Silica appears to be syn or post sulphide veining. Random orientation. In addition to the silica the rock is cut by numerous sulphide ± silica veinlets. The veinlets are dominated by sphal. 80% plus, 15% Py, 3% galena, 1% CPY. The sulphide veinlets are also quite random but generally range 15 - 45° locally up to 70° to CA. The rock also contains ~2% very fine dissemination Py and up to 2% dissemination sph. grains.
											Total sulphide content of unit. 5% sphal., 3% Py, <1% galena, <1% CPY. Sulphide veinlets generally contain very little or no gangue.
											Fault gouge 37.58 - 37.88.
											Lower contact with underlying argillite oriented 60° to CA. Lower two cm of the tuff cut by two sphal, Py, galena veinlets up to 0.5cm wide.

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
40.75	44.89	Black Argillite								Black argillite containing off-white calcareous? interbeds (6mm at 41.11 orient. 65° to CA; 1.5cm at 42.70 orient. 70° 1.5cm at 42.85 70° 0.3cm at 43.00 70° 7.0cm at 44.51 70°	
										Rock is generally quite soft and cleaves. Several strong shear zones.	
										42.75 - 43.00; 43.30 - 43.55 43.65 - 43.70; 44.62 - 45.38	
										The argillite is graded with a coarse clastic zone (fragments up to 1cm generally angular to subangular grading upward into the very fine argillite. 43.90. The lower 25cm appears to be another very fine arc. bed. The coarse clastic zone shows reverse grading at base.	
										Foliation 60° to CA 40.91 60° to CA 43.47	
										Lower contact badly sheared orientation 70° to CA.	
										Rock contains what appears to be 2-3% syngenetic Py in veinlets parallel to foliation.	

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										Also 5+ carbonate microveinlets (hair thin) per cm.	
										One 20cm silicified (pervasive) zone with up to 5% pyrite microveinlets and blebs at 41.88.	
45.00	47.50	(Q)FP Breccia	Light	Fine -	Clastic	Carb.	PY	50+		45.00 - 45.38 Strong shearing/fault gouge.	
			Greenish	Coarse	Bedded	Silica.					
			Grey							Fine grained greenish grey porphyritic matrix. Carbonate Pseudomorphs after plag. (~15% 1mm in size) Rock looks quite similar to dike rock except for an occasional small fragment and clastic. i.e. 45.62 - 45.75, 46.06 - 46.70. Clasts up to 40% subangular to subrounded, up to 2.0cm size; rock is badly fractured and broken due to drilling. Unit contains 2-3% dissemination Py. Rock appears to have undergone some diffuse silicification. Occasional bleb of bright green mineral.	
47.50	98.80	(QTZ) - Feld.	Light	Medium	Porph.	Seric.	PY, Sph.			Sharp contact with overlying unit oriented 60° to CA.	
		Porphyry Dike	Greenish			Carb.	Galena			Appears to have a narrow 10cm? wide finer grained chilled margin:	
			Grey							Rock comprises a very fine grained greenish grey groundmass hosting up to 20% pseudomorphs after plag., up to 4mm size, up to 3% white mica books 2-3mm size and a rare qtz phenocrysts after plag. are commonly zoned with a green sericitic?/carbonate rim and a white carbonate core.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									Rock contains 1% very fine dissemination pyrite and 2% blebby marcasite? and up to 1% dissemination sph. locally.	
									Sphal. and Py microveinlets and veinlets randomly located throughout rock commonly appear as micro fracture filling.	
									50.64 45° to CA	
									51.33 50° to CA	
									53.36 45° to CA, 4mm wide	
									55.15 - 55.48 micro fracture coating 10° to CA	
									49.70 - 49.80 sph., galena, Py and carbonate veinlets 45° - 70° to CA	
									52.52 - sph. coated microfract.	
									57.10 - silica veined piece of rubble.	
									The microfract filling and microvein commonly have dissemination sulph. in a lcm margin.	
									62.16 2mm sphal. - Py veinlet 45° to CA	
									64.57 5mm sphal., Py, galena veinlet 40° to CA	
									68.11 1mm micro fract sphal., Py, 45°	
									70.50 2mm Py veinlet 20°	
									79.95 5mm sphal. and Py veinlet 45°	
									Sphal. generally occurs sporadically along hair thin micro frac. The dark black dissemination appear to be marcasite.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									Sheared and highly fractured rock (fault gouge) with swelling white clay.	
									60.0 - 61.30                      85.95 - 89.40 Discontinuous	
									65.43 - 65.50                      90.40 - 91.20	
									66.85 - 67.25                      91.60 - 92.10	
									81.00 - 81.18	
									82.18 - 82.82                      Rock generally is highly fractured	
									83.00 - 83.53                      with white swelling clay in frac.	
									84.80 - 85.43                      drilling mud?	
									The dike exhibits a gradation in feldspar abundance and alteration? of phenos.	
									47.50 - ~58.0 ~20% phenos. sericitic rims carbonate cores most common.	
									58.00 - 62.75 ~15% phenos. pale sericitic green. Still fizzes. Possibly a mix of carbonate and sericite.	
									62.75 - 64.25 ~25% phenos. with darker green rim and carbonate white core. Phenos. up to 4mm.	
									64.25 - 67.45 as in 58.0 - 62.75	
									67.45 - ~70.95 as in 62.75 - 64.25	
									70.95 - ~73.0 as in 58.0 - 62.75	
									73.0 - 79.64 as in 62.75 - 64.25	
									79.64 - 87.63 as in 58.0 - 62.75	
									90.66 - 92.76 as in 62.75 - 64.25	
									92.76 - 97.40 as in 58.0 - 62.75	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										Groundmass contains abundant dissemination carbonate.	
										97.40 - 98.80 Chilled margin to the dike rock fine grained flow banding $\sim \leq 1\text{cm}$ thick observed 97.8m $45^\circ$ to CA 98.5m $40^\circ$ to CA	
98.80	102.35	QFP Tuff (sheared QFP Dike?)								Medium grained Qtz feld porphyritic tuff. Contains $\sim 20\%$ carbonate pseudomorphs after plag. 1-3mm ave. plus $\sim 2-3\%$ Qtz phenocrysts up to 6mm size. Also present are 3-5% white mica. The rock is quite massive, no bedding planes visible.	
										The texture and presence of several clasts up to 9cm at base of unit suggests it is a tuff. Contact with overlying dike oriented 50-70% (sharp and irregular).	
										Small fine grained interbed similar to matrix of tuff 100.91 - 101.11m Lower contact $45^\circ$ , upper $45^\circ$ (irregular) rotated $90^\circ$ to lower.	
										Rock contains $\sim 5\%$ dissemination and blebby and discontinuous microveinlets of Py. Contains occasional bright green bleb.	

63.





EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
102.35	112.72	QFP Breccia								<p>Contact with overlying Rx 32° to CA. Unit is polyolithic -</p> <p>1) Pale maroon porphyritic and aphanitic.</p> <p>2) Pale greenish grey aphanitic.</p> <p>3) Pale beige-grey porphyritic to aphanitic similar to underlying rock.</p> <p>4) Greenish grey QFP.</p> <p>Clasts ave. 1-2cm generally angular to subangular but there are subrounded one present also.</p> <p>Many clasts have been veined/microveined prior to incorporation into the unit. The rock is clast supported with clasts up to 60%. Matrix is fine fragments and silica?? and qtz and feld. phenos. The rock is crosscut by abundant grey to white carbonate veinlets. Grey veinlets not as noticeable in the coarse fragmental.</p> <p>The rock contains ~5% dissemination, blebby and microveinlet pyrite.</p>	
										<p>102.85 - 103.94</p> <p>Fine grained green grey dike.</p> <p>Flow banding oriented 20° to CA.</p>	
										<p>104.70 - 105.14</p> <p>Similar to 102.85 - 103.94.</p>	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-13

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Pyrite developed as rims around some clasts and preferentially developing in others. Very fine, fine beige sed.
										104.80 - 105.10.
										Grades up into overlying Rx.
										Lower contact 40°.
										106.75 - 106.88
										Pale beige grey very fine grained re hosting 20% grey phenos. Possibly a fragment upper contact 40° lower 70°.
										108.7 - 108.66
										Very fine grained. Rock similar to underlying unit.
										Upper contact 10°
										Lower contact 30°
										109.66 - 110.80
										Same as 108.7 - 108.66
										Upper contact 45°
										Lower contact 0 - 10°
										Lower contact of unit (112.72) oriented 45°
										The breccia is carbonate rich particularly the fragments. Contains fragments and zones of underlying flow.

65.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
112.72	150.0	Fine grained	Beige	Fine	Massive	Carb.	PY, Sph	100+		A fine grained rock, it contains up to 15% 1mm white carbonate pseudomorphs locally. The apparent lack of phenos. in some zones may simply be a result of alteration masking their presence. The rock contains occasional bright green blebs within heavily altered sections. The beige colour is due to extensive and pervasive carbonate disseminated throughout the Rx. The rock has also undergone extensive veining with abundant veinlets and veins of grey to maroon carbonate and much less abundant silica. making up to 50% of the core locally. The veining generally shows random orientation but there are zones where there is an apparent microveinlet preferred orientation i.e. 136 - 140.80 40 - 50° spacing on microveinlets <0.5cm. The silica veinlets/microveinlets range from white to grey to jasperoidal at 138.64 the rock begins to exhibit ovoid structures, greenish grey to grey in colour up to 7mm size. They generally exhibit concentric zoning and are locally up to 10% of rock. Generally sporadically located but one possible bed of them at 138.68 oriented 40°. These ovoids are present to the bottom of the hole and may represent accretionary lapilli.
	EOH	Andesite/Dacite Flow/Tuff	to Grey		Veined	Silica.				
										At 140.81 the beige altered rock grades into a grey fine grained tuff containing white carbonate phenos. It looks similar to the beige rock except it generally contains much less abundant carbonate and silica veining and although the

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										groundmass is relatively soft it doesn't react as strongly with Hcl. It also appears to carry ~5% lmm green mafic pseudomorphs in addition to the 10% white carbonate pseudomorphs after plag.
										At ~142.50 the rock begins to grade back into the beige Rx.
										At ~147.0 the beige rock again grades into a relatively unaltered tuff. Grey in colour. The rock still contains abundant carbonate - silica veins and also the grey ovoid structures. The rock is very brittle and has a tinny sound suggesting siliceous nature. Rock contains somewhat less Py than altered rock. This rock continues to EOH.
										130.00 - 130.90 OFF dike with flow banding at each contact. Lower and upper 40° to CA.
										Mineralization - Dominated by dissemination, granular blebs and discontinuous microveinlets of Py. Sphalerite occurs as an occasional microveinlet. One lcm wide sph. and Py veinlet from 128.0 - 128.20 15° to CA. The pyrite microveinlets occasionally have a black Mn? margin dendritic in nature.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									126.06 - 126.56 The rock contains grey patches of carbonate hosting ~10% very fine dissemination Py. These patches appear to be associated with Py microveinlets which crosscut them.	
									One 1cm Py and carbonate veinlet. 30% to CA at 127.40.	
									Py content 2-3%	
									Sphal $\leq$ 1%	
									Carbonate/silica veinlets range from 25° to 75° to CA.	
									Upper contact 45° to CA.	
									One possible clastic bed or veinlet carrying 40% polyolithic clasts (including host rock) matrix is dark grey, relatively soft but no reaction with Hcl. (siderite ferrodolomite?) Clasts are generally angular. Upper contact 40° to CA.	
									Lower ~45° to CA. Favour it being a clastic bed located 117.70 - 118.16.	
									Similar bed located 119.20 - 119.40. 40° upper and lower and 119.89 - 120.14. ~75° upper contact? intercalated.	
									Lower contact ~45°. The 3 beds are somewhat similar to overlying unit.	
									Carbonate commonly present as minor gangue in sulphide veinlets.	

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA + AA	Cu ppm
803 559	6.67	10.0	3.33		84	0.53	3-4% Py.; 1-2% Sph.	365	3300	5.6	680	19.0	185	198
560	10.0	13.0	3.0		100		3% Py.; 3% Sph.	370	9000	9.7	520	16.6	600	155
561	13.0	16.0	3.0		100		3% Py.; 5% Sph.	670	>10000	14.6	1600	33.0	680	283
562	16.0	19.0	3.0		100		3% Py.; 3% Sph.	710	7000	10.6	640	10.0	210	200
563	19.0	22.0	3.0		93	0.20	3% Py.; 3% Sph.	3600	>10000	18.6	4300	42.0	590	300
564	22.0	25.0	3.0		100		3% Py.; 7% Sph.; 1% Gal; <1% Aspy.	6700	>10000	46.0	>10000	190.0	2300	880
565	25.0	28.0	3.0		100		3% Py.; 6% Sph.; 1% Gal; <1% Cpy.	2600	>10000	42.0	1000	80.0	7180	565
566	28.0	31.0	3.0		100		3% Py.; 1% Sph.	1120	7700	32.0	175	17.0	2930	400
567	31.0	34.0	3.0		100		2-3% Py.; 1% Sph.	660	6150	12.0	500	21.0	1600	325
568	34.0	37.0	3.0		100		2-3% Py.; 1% Sph.	670	5400	15.5	230	41.0	2800	520
569	37.0	40.0	3.0		100		2-3% Py.; 1% Sph.; <1% Gal.	1430	>10000	19.6	1200	96.0	2050	273
570	40.0	40.75	0.75		100		3% Py.; 3-5% Sph.; <1% Gal.; <1% Cpy.	5300	>10000	>100.0	2300	>1000.0	>10000	5700
571	40.75	43.75	3.0		92	0.24	2% Py.	262	143	4.1	235	1.2	100	24
572	43.75	45.00	1.25		100		2% Py.	49	70	1.7	170	3.8	40	23
573	45.0	48.0	3.0		100		2-3% Py.	96	240	0.6	38	5.0	85	18
574	48.0	51.0	3.0		100		2% Py.; Trace Sph.	1120	2700	4.0	29	4.0	95	72
575	51.0	54.0	3.0		100		2% Py.	780	2850	2.5	15	2.0	310	40
576	54.0	57.0	3.0		82	0.55	2% Py.	500	1630	1.5	41	1.0	130	33
577	57.0	60.0	3.0		68	0.95	2-3% Py.	275	535	0.8	24	2.1	30	20
578	60.0	63.0	3.0		100		2-3% Py.; <1% Sph.	880	3500	3.9	25	5.8	100	93
579	63.0	66.0	3.0		100		2-3% Py.; 1% Sph.; Trace Gal.	425	3550	2.7	23	5.2	500	135
580	66.0	69.0	3.0		100		2-3% Py.; <1% Sph.	145	460	1.1	63	5.4	50	21
581	69.0	72.0	3.0		100		2-3% Py.; <1% Sph.	145	340	0.7	270	0.2	95	8
582	72.0	75.0	3.0		100		2-3% Py.; <1% Sph.	220	430	1.1	375	6.8	80	18
583	75.0	78.0	3.0		100		2-3% Py.; <1% Sph.	205	230	0.7	33	1.4	60	9
584	78.0	81.0	3.0		100		2-3% Py.; <1% Sph.	320	1450	2.2	63	14.2	105	25



EXPLORATION  
WESTERN CANADA

# DRILL LOG

sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA + AA	Cu ppm
803 585	81.0	84.0	3.0		100		2-3% Py.; <1% Sph.	360	600	1.2	32	4.4	90	20
586	84.0	87.0	3.0		100		2-3% Py.; <1% Sph.	160	180	0.9	92	16.0	450	13
587	87.0	90.0	3.0		100		2-3% Py.; <1% Sph.	210	420	1.0	69	31.0	55	21
588	90.0	92.5	2.5		100		2-3% Py.; <1% Sph.	70	210	0.5	32	3.0	100	6
589	92.5	96.0	3.5		100		2-3% Py.; <1% Sph.	115	148	1.4	53	3.6	125	29
590	96.0	99.0	3.0		100		2-3% Py.;	14	43	0.1	15	4.2	< 5	24
591	99.0	102.0	3.0		100		5% Py.; <1% Sph.	17	47	2.4	71	10.0	400	107
592	102.0	105.0	3.0		100		3-5% Py.;	11	48	1.3	50	7.2	50	68
593	105.0	108.0	3.0		100		3-5% Py.	55	105	1.9	59	10.0	700	56
594	108.0	111.0	3.0		100		3-5% Py.	40	73	1.4	79	8.8	1380	57
595	111.0	114.0	3.0		100		3-5% Py.	173	210	2.9	101	6.6	100	72
596	114.0	117.0	3.0		100		2-3% Py.; Trace Sph.	64	260	3.1	57	13.0	45	158
597	117.0	120.0	3.0		100		2-3% Py.; Trace Sph.	134	208	4.9	190	46.0	630	210
598	120.0	123.0	3.0		100		2-3% Py.; Trace Sph.	120	510	4.9	270	17.8	410	235
599	123.0	126.0	3.0		100		2-3% Py.; Trace Sph.	120	280	4.3	107	14.0	85	183
600	126.0	129.0	3.0		100		3% Py.; 1% Sph.	61	2300	3.8	270	31.0	180	203
601	129.0	132.0	3.0		100		2-3% Py.; Trace Sph.	115	1400	3.6	330	41.0	120	248
602	132.0	135.0	3.0		100		2-3% Py.; Trace Sph.	72	380	3.0	94	35.0	70	185
603	135.0	138.0	3.0		100		2-3% Py.; Trace Sph.	43	740	1.8	99	22.0	50	93
604	138.0	141.0	3.0		100		2-3% Py.; Trace Sph.	22	980	0.7	41	5.4	40	27
605	141.0	144.0	3.0		100		2-3% Py.; Trace Sph.	23	1600	0.7	32	2.6	55	14
606	144.0	147.0	3.0		93	0.20	2-3% Py.; Trace Sph.	37	1900	0.9	88	7.4	105	46
607	147.0	150.0	3.0		100		2% Py.	21	730	0.5	45	2.0	30	25



EXPLORATION  
WESTERN CANADA

# DRILL LOG

sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Ag AA g/tonne	Au g/tonne					
803	564	22.0	25.0	3.0				48.8	1.90	}				
	565	25.0	28.0	3.0				35.0	5.90					
	566	28.0	31.0	3.0				33.0	5.10		18.75 m			
	567	31.0	34.0	3.0				12.5	1.90		3.68 g. Au/tonne or 0.113 or Au/t			
	568	34.0	37.0	3.0				16.5	3.30		32.45 g. Ag/tonne 1.0 or Ag/t			
	569	37.0	40.0	3.0				20.0	2.70					
	570	40.0	40.75	0.75				148.0	8.80					
	594	108.0	111.0	3.0				2.8	0.60					





EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC.84-14

DRILLING CO. J.T. THOMAS DIAMOND DRILLING	LOCATION SKETCH   -N-	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 21, 1984	PROJECT: Buck Creek
COLLAR		45°	270°	DATE COMPLETED: August 22, 1984	N.T.S.: Q3L/7E	
76.22m		52°		COLLAR ELEV.: 924 metres	LOCATION:	
152.44m		55°		NORTHING: (UTM) 6019299		
				EASTING: (UTM) 654942		
				AZIMUTH: 270°		
HOLE TYPE DDH				DEPTH: 153.96m      505ft	DATE LOGGED: September 7-8, 1984	
				CORE SIZE: NQ	LOGGED BY: Ian Trinder	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
0.00	19.90	Casing								
19.90	69.90	Qtz - Feld. Porphyritic Polyolithic Breccia. (Phreatic Breccia)	Greenish Grey	Coarse	Fragmt.	Carb.	Py., Sph.	100+ Dominantly open	A poorly sorted, highly variable (clast size, composition and abundance) unit. A very fine grained greenish grey matrix hosts up to 20% 1-3mm carbonate pseudomorphs, ~ 1% quartz eyes up to 5mm dia. and up to 40% fragments locally. The matrix is carbonate rich, carbonate is present not only in the pseudomorphs but it is also commonly rimming fragments or pervasive throughout the matrix.  The fragments range in size from < 0.5cm to > 13cm dia. and are generally subangular to angular (some subrounded fragments also).  Fragments variable in composition: 1) OFP > 80% of the fragments. 2) Maroon aphanitic and very fine porphyritic dacite ~ 10% of fragments (hazelon?)	

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									3) Black argillite ~ 1%.	
									4) Medium grey, very fine porphyritic dacite ~ 5%.	
									5) Very fine grey dacite/andesite ~ 5%.	
									There is no evidence of bedding within this unit as in the polyolithic fragments of DDH 84-11 and 12.	
									Massive QFP containing 20% carbonate pseudomorph 2% quartz eyes and 2% white mica 34.67 - 35.07;	
									37.20 - 40.52 (contains a few fragments)	
									43.10 - 44.54 (brecciated with a few "exotic" fragments)	
									57.25 - 58.15	
									The presence of the massive zones of QFP apparently gradational into the fragmental and lack of bedding in the fragmental suggest the fragmental may be a primary beccia along dike margin.	
									33.00 - 33.69 Fine grained tuff?? Carbonate pervasive throughout and cut by abundant silica microveinlets and veinlets as well as 2-3% pyrite microveinlets and up to 1% pyrite blebs. This may represent an intensely altered zone of the breccia and not a separate bed which would be difficult to put into the context of a primary breccia.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-14

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										45.40 - 46.30 Very fine dacite andesite tuff? which has been brecciated and intruded by the QFP carbonate rich matrix along the fractures. Angular fragments of the tuff? are found in the breccia above and below the zone.
										49.35 - 51.50 Fine grained zone similar to 33.00 - 33.69. Contains polyolithic fragments as in the breccia.
										56.90 10cm Fragment composed of angular fragments.
										Fault gouge 26.00 - 33.00; 38.84 - 39.05; 40.45 - 40.60; 58.55 - 66.20.
										66.20 - 69.90 Increased silica veining relative to overlying breccia. Up to 20 silica microveinlets/m. Related increase in pyrite microfractures and carbonate microveinlets.
										52.40 5mm Wide sphalerite and carbonate veinlet.
										Total pyrite 1-2% in disseminations and minor microveinlets. Disseminations 1-2%, microveinlets < 1%.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-14

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
69.90	88.35	Quartz - Feldspar Porphyry Dike	Grey	Medium	Porph.	Carb.	Py.	50-75		Very fine grey groundmass hosts 20% 1-3mm carbonate pseudomorphs. 1% quartz eyes 2-3mm and 1% 1-3mm white mica. Core is crosscut by abundant silica veinlets and microveinlets.	
								70% Silica		2-3% pyrite present as disseminations blebs and microveinlets. Up to 10% sphalerite present locally as dissemination grains and blebs.	
								25% Py.		Microveining is quite angular suggesting open fracture filling. Veining is generally random in orientation. (30-75° to CA)	
								5% Carb.		Upper contact relatively sharp. Defined by a carbonate - pyrite veinlet 20° to CA.	
										Lower contact again sharp 60° to CA.	
										"Chilled" finer grained lower margin 86.20 - 88.35.	
										Xenolith of underlying rock 87.20 - 87.80.	
										Fault gouge 74.40 - 75.50.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
88.35	100.32	Very fine	Grey	Aphanitic	Massive		Py.	50-100		A very fine grey sediment, possibly argillite.
		Dacite ash Tuff		- very fine	to Bedded			50% Py. 50% Silica		Varies from aphanitic to a very fine salt and pepper texture (1mm black ovoids hosted by the grey tuff) to banded and discontinuous banded and salt and pepper textured tuff. Rock is crosscut by abundant silica and pyrite microveinlets. Where the salt and pepper Rx is crosscut by pyrite microveinlets, there is commonly a 3-5mm salband which lacks the black ovoids.
										Layering/bedding 1-5cm thick 45° to CA at 93.60; 70° to CA at 96.30; 70° to CA at 99.85.
										Minor sphalerite - pyrite - carbonate veinlet 5mm 30° to CA at 100.15.
										Lower contact 100.32m irregular angular/broken average 45° to CA.
										Carbonate pervasive throughout the Rx.
100.32	153.96	Quartz - Feld.	Grey	Coarse	Fragmt.	Carb.	Py., Sph.	50-100		Similar to 19.90 - 69.90
	EOH	Porphyritic								
		Polyolithic								Grey groundmass include ~ 20% carbonate pseudomorphs and ~ 1-2% quartz eyes. Carbonate pseudomorphs (1-3mm quartz eyes 2-5mm).
		Breccia								

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										Fragments are angular to subrounded (generally subangular to angular), and range in size from <0.5cm to ~20cm. Fragments include: 1) 60-80% QFP, 2) maroon aphanitic to very fine porphyritic dacite (hazleton?) < 5%, 3) light grey aphanitic soft sericitic? Fragments 5-10%, 4) Fragments of the fine sediment/argillite immediately upsection 5%.  Groundmass sericitic or clay rich? (relatively soft, does not react with Hcl).  105.34 - 1-7.67 Silicified zone, maroon siliceous matrix hosts 40% <1mm to 10cm QFP fragments. Upper and lower margins marked by intense grey silicification in veinlets with accompanying sphalerite and pyrite veinlets. Upper contact somewhat gradational, lower contact sharper. It is a minor shear (1cm wide) containing black sulphide residue, 75° to CA.  119.45 - 121.67 Massive QFP greenish grey groundmass hosts 15% off-white to greenish carbonate pseudomorphs 1-3mm, 1% 2-5mm quartz eyes, 2-3% 2-5mm white mica (in books commonly).	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									1-2% disseminated pyrite; 119.75 - 119.95 abundant silica veining.	
									Upper contact sharp 50° to CA.	
									Lower contact gradational.	
									123.90 - The polyolithic breccia matrix becomes lighter grey in colour and the pyrite and sphalerite content generally increase. (pyrite 3-4%, sphalerite 1%)	
									Fe oxide staining becomes much more common associated with dissemination and blebby marcasite?/pyrite.	
									One 2cm sphalerite - pyrite veinlet 128.79 - 128.93 20° to CA.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-14

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									Fault gouge - 100.96 - 101.00	
									101.67 - 102.40	
									109.63 - 109.70	
									132.68 - 133.10	
									117.86 - 118.22	
									141.73 - 142.60 (45° to CA)	
									145.84 - 146.11	
									146.80 - 147.87	
									151.16 - 151.52	
									152.20 - 153.96	
									Unit in general:	
									2-3% pyrite present as disseminations blebs and microvein-	
									lets. Pyrite occasionally preferentially develops in	
									selected fragments particularly the soft grey aphanitic	
									ones. (2%-3% disseminated pyrite; up to 1% microveinlets).	
									Sphalerite locally up to 1% in disseminated grains and	
									lesser microveinlets. Commonly fe oxide staining is	
									associated with the disseminated sphalerite grains.	



EXPLORATION  
WESTERN CANADA**DRILL LOG****sample data**

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r.	%	A M T. L O S T		P b p p m	Z n p p m	A g p p m	A S p p m	S b p p m	A u p p b F A + A A	-
803 757	19.90	23.0	3.10		75	0.75	1% Py.	-	625	0.3	30	1.6	45	
758	23.0	26.0	3.0		45	1.65	1% Py.	-	1200	1.0	120	3.6	40	
759	26.0	29.0	3.0		52	1.42	1% Py.	-	620	0.5	43	2.8	20	
760	29.0	32.0	3.0		37	1.90	1-2% Py.	-	262	0.3	63	2.0	30	
761	32.0	35.0	3.0		97	0.10	2-3% Py.	-	78	0.5	38	2.4	30	
762	35.0	38.0	3.0		100		1-2% Py.	-	205	1.1	90	3.6	50	
763	38.0	41.0	3.0		100		1-2% Py.	-	113	1.0	46	2.6	30	
764	41.0	44.0	3.0		100		1-2% Py.	-	35	0.5	55	3.8	30	
765	44.0	47.0	3.0		100		1-2% Py.	-	73	0.7	69	6.6	40	
766	47.0	50.0	3.0		95	0.15	1-2% Py.	-	41	0.8	53	3.8	530	
767	50.0	53.0	3.0		100		1-2% Py. Trace Sph.	-	292	1.6	81	4.0	40	
768	53.0	56.0	3.0		100		1-2% Py.	-	45	0.4	43	2.4	35	
769	56.0	59.0	3.0		100		1-2% Py.	-	98	0.6	46	3.2	45	
770	59.0	62.0	3.0		98	0.05	1-2% Py.	-	240	0.6	101	7.2	75	
771	62.0	65.0	3.0		85	0.45	1-2% Py.	-	730	3.3	250	27.0	75	
772	65.0	68.0	3.0		100		2-3% Py.	-	653	2.8	200	20.0	90	
773	68.0	71.0	3.0		93	0.20	2-3% Py. Trace Sph.	-	465	0.9	100	6.6	110	
774	71.0	74.0	3.0		65	1.05	1-2% Py.	-	465	0.8	100	12.6	50	
775	74.0	77.0	3.0		100		1-2% Py.	-	683	0.7	103	46.0	100	
776	77.0	80.0	3.0		100		1-2% Py. Trace Sph.	-	1650	0.3	71	2.8	50	
777	80.0	83.0	3.0		100		1-2% Py. Trace Sph.	-	1000	0.8	110	3.6	60	
778	83.0	86.0	3.0		100		1-2% Py. Trace Sph.	-	815	0.9	97	9.0	70	
779	86.0	89.0	3.0		100		2-3% Py.	-	900	1.0	69	27.0	70	
780	89.0	92.0	3.0		100		2-3% Py.	-	340	1.5	130	15.8	110	
781	92.0	95.0	3.0		100		2-3% Py. <1% Sph.	-	1700	1.4	53	16.4	160	
782	95.0	98.0	3.0		100		2-3% Py. <1% Sph.	-	1780	1.1	63	8.2	100	

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DRILL HOLE NO. 84-14



EXPLORATION  
WESTERN CANADA

# DRILL LOG

sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS							
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA + AA	-	
803	783	98.0	101.0	3.0		100		2-3% Py.	-	1680	1.1	340	11.8	135	
	784	101.0	104.0	3.0		100		2-3% Py. < 1% Sph.	-	1230	0.6	700	9.0	120	
	785	104.0	107.0	3.0		100		2-3% Py. < 1% Sph.	-	2250	1.8	920	28.0	200	
	786	107.0	110.0	3.0		100		2-3% Py. < 1% Sph.	-	1680	0.8	430	6.4	100	
	787	110.0	113.0	3.0		100		2-3% Py. < 1% Sph.	-	1080	1.0	510	14.0	245	
	788	113.0	116.0	3.0		100		2-3% Py. < 1% Sph.	-	1130	1.1	1300	10.2	200	
	789	116.0	119.0	3.0		100		2-3% Py. < 1% Sph.	-	1800	1.3	1300	10.0	180	
	790	119.0	122.0	3.0		100		2-3% Py. < 1% Sph.	-	1780	1.1	1200	12.0	235	
	791	122.0	125.0	3.0		100		3-4% Py. 1% Sph.	-	1680	0.8	1100	6.4	180	
	792	125.0	128.0	3.0		97	0.10	3-4% Py. 1% Sph.	-	3500	3.2	1400	13.0	205	
	793	128.0	131.0	3.0		100		3-4% Py. 1% Sph.	-	5500	3.0	2900	45.0	400	
	794	131.0	134.0	3.0		100		3-4% Py. 1% Sph.	-	2050	0.5	150	13.0	35	
	795	134.0	137.0	3.0		100		3-4% Py. 1% Sph.	-	1900	1.2	90	11.4	20	
	796	137.0	140.0	3.0		100		3-4% Py. 1% Sph.	-	1950	0.9	610	13.2	135	
	797	140.0	143.0	3.0		100		2-3% Py. 1% Sph.	-	1580	0.4	1300	20.0	270	
	798	143.0	146.0	3.0		100		2-3% Py. 1% Sph.	-	1200	0.7	110	10.4	60	
	799	146.0	149.0	3.0		100		2-3% Py. < 1% Sph.	-	1050	0.8	330	4.8	80	
	800	149.0	152.0	3.0		100		2-3% Py. 1% Sph.	-	1700	0.6	630	6.4	95	
	801	152.0	153.96	1.96		95	0.16	2-3% Py. 1% Sph.	-	940	0.7	160	8.0	140	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

DRILLING CO.  J. T. THOMAS DIAMOND DRILLING	LOCATION SKETCH 	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 24, 1984	PROJECT: Buck Creek
		COLLAR	50°	002°	DATE COMPLETED: August 26, 1984	N.T.S.: 93L/7E
		91.46m	56°		COLLAR ELEV.: 945 metres	LOCATION:
		182.92m	56°		NORTHING: (UTM) 6019429	
					EASTING: (UTM) 654399	
					AZIMUTH: 002°	
					DEPTH: 183.54m 602ft	DATE LOGGED: September 2-4, 1984
HOLE TYPE DDH					CORE SIZE: NO	LOGGED BY: Ian Trinder

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0.0	8.13	Casing								
8.13	11.10	Andesite/Dacite	Dark	Fine	Porph.	Carb.		25+		Dark maroon tuff containing 25% 1-2mm carbonate pseudomorphs after plagioclase and 5-1% lithic fragments (<0.5cm sub-angular to subrounded). Fragments are difficult to distinguish because of similar maroon colouration to matrix. However, fragments are polyolithic ranging from black to grey to maroon. Aphanitic and maroon very fine porphyritic also present are pale green carbonate patches which may represent pseudomorphs of fragments. Carbonate is also present in abundant random microveinlets and a few larger veinlets (1mm wide). Some fragments are up to 1cm in dia.
		Xtal-Lithic	Maroon		Massive			Carb.		
		Tuff						filled		
										The lower 28cm of the unit is a separate bed. It is finer grained carries ~5-10% carbonate pseudomorphs after plagioclase and ~10% 1mm dark black pseudomorphs? No fragments visible. Colouration is more brown than maroon.

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									Upper contact 60° to CA. No sulphides visible. Minor jasperoidal veinlets.	
11.10	17.54	Dacite Flow?	Lt. Grey	V. Fine	Massive	Carb.	Py.	25	Upper contact 55° to CA. Upper 20cm abundant hematite, unable to determine if it is the same rock as in lower section. Grades into the dacite. Grey to off-white dacite? The rock has been extensively brecciated (angular fragments <0.5cm) and sealed with light grey silica. Rock was essentially shattered in situ.	
					Brecciated Silica				11.10 - 13.11 The rock contains up to 15% 2mm-1cm dark green carbonate patches commonly with a pale reddish brown silica rim. The patches are present sporadically in the remaining section. But much less abundant.	
									12.90 - 13.95 Rock contains ~10% 1mm white carbonate pseudomorphs after plag. The core is crosscut by occasional hairthin microveinlets with a pink selvage.	
									1% very fine disseminated pyrite euhedra. Some pyrite associated with an occasional carbonate veinlet.	

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
17.54	18.86	Brown Andesite Tuff	Brown	Fine	Porph.	Carb.	Py.	50+		Upper contact 30° to CA marked by a pale green chloritic? shear (3cm wide). Fine grained matrix contains ~10-15% 1mm grey to off-white carbonate pseudomorphs. Rock has been extensively fractured/sheared. Beige carbonate microveinlets with spacing of 1-2mm crosscut the rock. 30-60° to CA. Larger (2mm) white carbonate veinlets (with up to 5% Py.) run roughly parallel to CA (late feature). The rock is also crosscut by hairthin sulphide (pyrite?) microveinlets 30° to CA 2-5mm spacing. These microveinlets are commonly broken and discontinuous.  1-2% very fine dissemination pyrite.  18.21 - 18.46 Very fine aphanitic pale green andesitic interbed? Contains fragments of the brown tuff may represent an early shear zone. Contains some mineralization and carbonate veinlets as brown tuff. Contacts irregular and broken/angular.	
18.86	30.44	Dacite Xtal Lithic Tuff	Pale Maroon	Fine	Porph.	Carb.	Py., Sph	25+		Upper contact 50° to CA marked by a 3cm wide pale green shear zone (fault gouge).  Pale maroon to grey aphanitic matrix hosts 20-25% white to pale green carbonate - pseudomorphs after plagioclase as well as <10% lithic fragments.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										80% of these fragments are pale greenish grey carbonated aphanitic, angular and broken. The elongate ones may represent fiamée. The elongate fiamée are generally 30-45° to CA. There are also occasional dark maroon aphanitic fragments (subangular <0.5cm dia.) and one possible sub-angular (QFP) fragment seen.
										The core is crosscut by random oriented pale reddish brown jasperoidal? microveinlets. The carbonate pseudomorphs commonly have a similar rim. 1% dissemination very fine pyrite euhedra. Commonly developing as cores to pseudomorphs and fragments.
										28.56 - 29.06 4 Sphalerite - pyrite - quartz veinlet (3mm to 2.5cm wide) have a 5mm to 1cm wide aphanitic reddish silicified selvage. Veinlets ~45° to CA occasional hairthin pyrite microveinlet.
30.44	31.60	Dacite Xtal	Medium	Fine	Porph.	Carb.	Py.	30+		Upper contact 70° to CA.
		Lithic Tuff	Beige					50% Py.		Upper 50cm comprise a medium green chlorite? shear zone which contains red brown dacite tuff fragments.
								50% Carb.		The beige - light brown matrix hosts up to 30% - 1mm carbonate pseudomorphs after plagioclase. ~5% brown subangular 2-3mm fragments are also present.

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
											Carbonate is also present in patches and microveinlets 5-10%. Pyrite 2% is present in microveinlets, carbonate bleb and replacing carbonate pseudomorphs.
31.60	32.29	Andesitic Tuff	Green to Brown	Fine - Medium	Porph.	Carb.	Py.	30+			Upper contact 25° to CA.
								Carb. minor			Chaotic zone of green to brown xtal tuff. Appears to have undergone some shearing ~ 15-20% carbonate, pseudomorphs (1-2mm).
								Py.			A few white carbonate veinlets (2mm) 20° to CA.
											Pyrite 1-2% as very fine disseminated euhedra and in carbonate veinlets.
32.29	33.62	Dacite Xtal Lithic Tuff	Beige	Fine	Porph. Fragmt.	Carb.	Py.	50+ 50% Py. 50% Carb.			Similar to 30.44 - 31.60 except for the presence of 5-10% accretionary lapilli (concentric zoning; outer red siliceous rim common). Carbonate patches and veinlets ~10%.
											2% pyrite; majority in microveinlets but some in carbonate patches and pseudomorphs and very minor disseminations.
											Very minor silica microveinlets. Some sulphide microveinlets 55° to CA but generally quite random.
33.62	34.70	Xtal Dacite Tuff	Brown	V. Fine	Porph.	Carb.	Py.	50+			Upper contact 30° to CA. Rock appears to have been extensively sheared. Shear foliation 30° to CA.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
									33.62 - 34.06 3-5% pyrite in microveinlets parallel to shearing. Abundant carbonate veining and microveining (>5% carb.) 1-2% disseminated pyrite throughout.	
34.70	37.70	Dacite Xtal Lithic Tuff	Lt. Brown	Fine	Porph. Fragmt.	Carb.	Py.	20	Fine xtal lithic tuff similar to 30.44 - 31.60 except colouration is somewhat browner and there are coarser grained interbeds.  Possible graded bed from 34.84 - 35.75. Fining up section grades from carbonate pseudomorphs 2-3mm to < 1mm pseudomorphs upsection. 10% carbonate pseudomorphs. Coarser interbeds 2-3mm pseudomorphs - 35.90 - 36.20  36.60 - 36.75  Carbonate also occurs as pervasive patches, zones and as microveinlets carbonate 15% of Rx.  < 1% pyrite very fine disseminated grains. Occasional hair-thin black microveinlet of marcasite.  36.45 - 36.53 Green chloritic shear? zone still contains carbonate pseudomorphs so may be an interbed relatively soft compared to surrounding Rx. (upper contact 80°, lower 55° to CA)	



INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
37.70	40.75	Xtal - Lithic	Green to	Coarse	Porph.	Carb.	Py.	20+		Pale maroon very fine matrix hosts ~25% <1mm - 3mm carbonate (white) pseudomorphs and 10% lithic fragments (subangular generally <5mm dia.) These fragments range from medium grey aphanitic and porphyritic. Also present are 5-10% angular pale green patches up to 5mm composed of carbonate.	
		Dacite Tuff	medium		Fragmt.						
			maroon								
										The core is crosscut by abundant hairthin microveinlets of white carbonate randomly oriented. Spacing <1cm. Occasional veinlet of white carbonate. 1-2% pyrite as very fine disseminated grains and blebs.	
40.75	45.84	Dacite Xtal	Rose to	Medium	Porph.	Carb.	Py.	75+		Upper contact gradational.	
		Lithic Tuff	very pale		Fragmt.	minor		50% Carb.		Very fine matrix hosts 5-10% 1-2mm white carbonate pseudomorphs; <5% dark maroon lithic fragments porphyritic and aphanitic (subangular <1cm dia.) and 5-10% dark green carbonate patches 2mm to 1cm dia. generally angular to subangular, may be pseudomorphs of fragments.	
			maroon			Silica		50% Py.			
										The core is crosscut by abundant white carbonate microveinlet commonly with associated pyrite and by hairthin microveinlets of pyrite/marcasite. There is also <1% very fine disseminated pyrite grains. The pyrite is generally more abundant in the green carbonate patches than the matrix. Microveinlets appear randomly oriented also minor reddish brown jasperoidal microveinlets (total pyrite 1-2%).	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
45.84	49.28	Dacite Xtal	med-drk	medium	Porph.	Carb.	Py.		Similar to 37.70 - 40.75 except darker maroon colouration and slightly coarser grained, with more abundant lithic fragments. Upper contact 60° to CA.	
		Lithic Tuff	Maroon	coarse	Fragmt.					
									Tuff matrix hosts ~15% 1mm carbonate pseudomorphs after plag. and up to 20% lithic fragments (subangular - angular average 0.5-1.0cm dia.) Fragments are polyolithic, ranging from dark maroon porphyritic and aphyric to pale grey aphanitic. Also present lower in the section are large 2-3cm angular green carbonate pseudomorphs after fragments? which contain white carbonate pseudomorphs. Green angular patches 2-5mm are present throughout the section. Abundant off-white to beige carbonate microveinlets crosscut the core randomly. ~15-20% carbonate total in rock.	
									<1% "dissem" pyrite closely related to carbonate veining. Minor marcasite microveinlets 48.25 - 48.55 randomly oriented.	
49.28	51.25	Dacite Xtal	Lt. Brown	Fine	Porph.	Carb.	Py.	25+	Xtal lithic tuff similar to 20.44 - 31.60 light brown very fine matrix hosts. 10% carbonate pseudomorphs after plag. and ~5% lithic fragments (subangular to subrounded <math>\leq 0.5\text{cm}</math> dia. average). Matrix also hosts ~3% angular somewhat wispy 2-3mm patches of green carbonate. Fragments are polyolithic; maroon to pale grey. Generally aphanitic or very poorly porphyritic. <math>\leq 1\%</math> round quartz eyes 2-3mm dia.	
		Lithic Tuff								

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Carbonate present as -
										1) pseudomorphs,
										2) white carbonate veinlets and microveinlets,
										3) green wispy patches
										and
										4) as off-white rims around some carbonate altered fragments.
										Pyrite occurs as -
										1) extremely fine disseminated euhedra,
										2) < 1mm blebs associated with white carbonate patches and microveinlets
										and
										3) hairthin microveinlets (average 50 <sup>o</sup> to CA).
										Total pyrite 2%.
51.25	55.95	Andesite/Dacite	Green to	Fine	Porph.	Carb.	Py.	50-100		May be a sequence graded tuffs or one unit with colour
		Tuffs	pale					60% Carb.		variations due to alteration. Overall colour change from
			Maroon					40% Sulphide		green to pale maroon down section. Carbonate pseudomorphs
										after plag. (1mm) variable in abundance but average 5%.
										< 2% lithic fragments (< 1cm size). Also present are
										locally up to 5% green carbonate patches (2-5mm). Several
										possible accretionary lapilli also recognized.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Carbonate present as -
										1) pseudomorphs,
										2) green patches and veinlets,
										3) white patches and veinlets.
										Total carbonate 10-15%.
										Pyrite present as blebs and disseminations associated with carbonate patches and veinlets. Pyrite microveinlets also present. 53.46 - 54-45 Abundant pyrite - marcasite microveinlets with black dendritic marcasite rim. 2-3% pyrite.
55.95	59.38	Andesite?	Green -	Fine	Porph.	Carb.	Py.	50-100		Green to grey very fine matrix hosts 10%-25% white carbonate pseudomorphs (1-2mm). Only a rare lithic fragment. 2-5mm.
		Xtal Tuff	Grey					60% Carb.		angular green carbonate patches (~1-2%) only locally concentrated and aligned 45° to CA.
								40% Sulphide		
										Carbonate in -
										1) pseudomorphs,
										2) green patches,
										and
										3) white microveinlets.
										Total carbonate ~20%.
										Pyrite dominantly in microveinlets some blebs and disseminations associated with carbonate patches and veinlets.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										57.17 - 59.38 Abundant black dendritic rimmed pyrite - marcasite microveinlets (10° 55° and 90° to CA most common)
										Total pyrite 2-3%.
59.38	60.70	Andesite Tuff	Medium Grey	Fine	Porph.	Carb.	Py.	20-50 80% Sulphide 20% Carb. < 1% Fluorite/ Amythest		Grey very fine matrix hosts 5-10% <1mm carbonate pseudo- morphs after plag and <3% lithic fragments (subangular <1.0cm). Carbonate as pseudomorphs and as hairthin microveinlets. ~10% total.  Pyrite occurs along microveinlets and veinlets
										59.38 - 59.80 Pyrite - marcasite microveinlets with black dendritic selvages. Random orientation. Total pyrite ~2% Upper contact 50° to CA. Purple amythest or fluorite veinlets .
										59.38 - 59.72 (1) 59.85 - 60.00 (2) veinlets are crosscut by the sulphide veinlets.
60.70	69.60	Dacite Tuff	Dk. Grey to Maroon Grey	Fine to Medium	Porph.	Carb.	Py.	25-50 60% Sulphide 40% Carb.		Dark grey to maroonish grey matrix. Hosts 20-25% 1-2mm carbonate pseudomorphs after plag. ~5% lithic fragments. (Dominantly 5mm-8mm subangular to angular pale to dark maroon aphanitic fragments with an occasional light grey aphanitic fragment). Locally up to 5% 2mm-7mm green

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										carbonate patches. Total carbonate 20%.
										Carbonate in -
										1) pseudomorphs,
										2) green patches,
										and
										3) microveinlets with both grey and white carbonate.
										Pyrite present predominantly in microveinlets. Larger microveinlets commonly have a bluish grey 3-5mm carbonated selvage. Total pyrite 2%.
										60.90 -- 62.60 The green carbonate patches have white carbonate pseudomorphs. Therefore patches represent either altered matrix or fragments.
										Purple amythest/fluorite veinlets (3) 62.93 - 63.15.
										68.30 - 69.60 A heavily carbonated and pyrite veinleted zone. Pervasive carbonatiration gives core a mottled grey and white texture.
										Upper contact 50° to CA.
69.60	76.85	Dacite Xtal	Pale	Fine	Porph.	Carb.	Py., Sph.	75-100		Upper contact 45° to CA.
		Tuff	Brown to						70% Sulphide	
			Beige						30% Carbonate	Brown matrix host 15° 1mm carbonate pseudomorphs after plag. Plus up to 5% 2-5mm patches of green carbonate. (pseudomorphs?)

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Carbonate in form of pseudomorphs, green blebs and patches and white microveinlets. Total carbonate 15-20%.
										Pyrite dominantly in microveinlets with a black dendritic marcasite selvage.
										<1% disseminated pyrite. Total pyrite content 1-2%.
										Purple amythest/fluorite veinlet.
										Pervasive carbonate zone 71.98 - 74.40. Rock is off-white massive and textureless except for 5-8% blebs and discontinuous microveinlets/veinlets of pyrite with black marcasite selvages.
										Upper alteration contact 30° to CA.
										Lower alteration contact 45° to CA.
										74.0 - 74.4 Several broken and discontinuous sphalerite - pyrite veinlets.
										Total sphalerite in altered zone 1% pyrite is commonly rimming ovoid structures in the altered zone. Altered zone ~80% carbonate.
76.85	78.00	Dacite/Andesite Xtal Lithic Tuff	Med. Grey to Greenish Grey	Fine	Porph. Fragmt.	Carb.	Py.	< 25		Very fine grey matrix hosts 20% 1mm carbonate pseudomorphs after plagioclase and 5% light grey to beige subangular aphanitic fragments generally ~5mm dia. an occasional green carbonate patch 2-3mm.
										Rare microveinlets of carbonate <1% extremely fine dissem. pyrite.

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
78.00	78.70	Dacite Xtal Tuff	Pale Maroon	Fine	Porph.	Carb.	Py.	50+ 85% Py. 15% Carb.		Pale maroon very fine matrix hosts 10% 1mm carbonate pseudomorphs. Black pyrite and silica? microveinlets crosscut the core randomly and have a 1-2mm wide bluish grey siliceous selvage. Total pyrite $\leq$ 1%. Minor carbonate microveinlets.	
78.70	80.08	Dacite Xtal Tuff	Med. Grey	Fine	Porph.	Carb.	Py.	50+ 50% Carb. 50% Py.		Upper contact 58° to CA. Very fine grey matrix hosts 2-3% 1mm carbonate pseudomorphs, 8% 1mm hard white phenocrysts possibly potassium feldspar? (or milky quartz) and locally up to 5% green carbonate 2-3mm patches. The core is crosscut by zones of beige pervasive carbonatization which interfinger with the less altered rock. The white hard phenocrysts still remain in the altered zones. $\approx$ 1% very fine disseminated pyrite (most abundant in altered zones) $\sim$ 1% pyrite along microveinlets. Carbonate also occurs along microveinlets. Total carbonate $\sim$ 10-15% overall.	
80.08	86.30	Rhy. Dike	Lt. Grey	Aphanitic	Massive to Brecciated	Carb?	Py.	50-100		Upper contact 60° to CA. Fresh surface light grey weathering to a light beige-grey. Suggesting presence of Fe carbonate. Rock commonly exhibits internal brecciation with matrix to the fragments slightly more beige in colour (more carbonate rich?) Both the rhyolite and the breccia filling are very hard ( $\approx$ 7) and do not react with HCl.	



INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE, RELATIONS	
											The unit contains an occasional grey quartz eye 2mm. The section is crosscut by black - grey silica veinlets and patches, greenish grey carbonate veinlets, white carbonate veinlets (rare) and pyrite microveinlets. There are also several veinlets filled with a relatively soft (V3-4) mineral which doesn't react with Hcl (pyrophyllite). Total microveinlet pyrite ~1%.
86.30	87.14	Dacite Xtal Tuff	Medium	V. Fine	Porph.	Carb.	Py.	100			Very fine brown matrix hosts 5% <1mm carbonate pseudomorphs. Section is crosscut by abundant randomly oriented black hairthin pyrite - marcasite microveinlets. (commonly with a dendritic selvage) A few silica microveinlets and carbonate veinlets/microveinlets.
			Brown			Silica		70% Py.			86.70 - 86.89 Rock has been extensively fractured and sealed with silica. Pyrite developing in open spaces. Total carbonate 5-7%. Total pyrite 1-2%.
								20% Carb.			
								10% Silica			
87.14	91.42	Dacite Xtal Tuff	Grey to	Fine	Porph.	Carb.	Py.	40-50			Grey very fine matrix hosts 10% 1-2mm carbonate pseudomorphs. 10% hard white phenos similar to 78.70 - 80.08. The section grades in and out of beige coloured zones suggesting an increased carbonate content throughout the matrix. (Still contains the hard white phenocrysts). Upper contact 30° to CA.
			Beige					80% Py.			87.14 - 88.65 Abundant pyrite - marcasite hairthin microfractures with black dendritic rim. (Randomly oriented).
								20% Carb			

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										88.75 - 89.20 A coarse clastic interbed, polyolithic, tuffaceous to argillaceous clasts subangular to subrounded. Clast sizes 4cm - 2mm. Reverse grading at bottom of section then fining up section. Matrix is argillaceous. Interbed 60% clasts.
										Carbonate in pseudomorphs and microveinlets and in more pervasive zones. Total, up to 30% carbonate. Minor silica veinlets. Total pyrite 1-2%. Pyrite present in microveinlets and in granular blebs (in the carbonate rich zones).
91.42	93.90	Dacite Xtal Tuff	Maroon to Grey	Fine	Porph.	Carb.	Py.	20		Hard very fine maroon to grey matrix hosts 10% hard white phenocrysts similar to 78.70 - 80.08 and 5% carbonate pseudomorphs (both ~1mm size). Also present are beige (carbonate rich?) zones and angular fragment similar to that in 87.14 - 91.42. Black pyrite - marcasite microveinlets with grey siliceous selvage and pyrite veinlets crosscut the core sporadically and randomly. Total pyrite 1%.  Minor purplish diffuse veinlet of amythest? fluorite at 93.18.  Upper contact 45° to CA.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
93.90	94.47	Rhy. Dike	Lt. Grey	Aphanitic	Massive	Carb.	Py., Sph.	50+		Similar to 80.08 - 86.30. Upper contact 55° to CA. Carbonate microfractures. <1% sphalerite, 1% pyrite as blebs and disseminations.
94.47	99.72	Interbedded Tuffs and Argillites	Beige to Brown to Black	Fine to Coarse	Bedded	Carb.	Py.	25		Chaotic zone of interbedded tuffs argillites and clastic argillites. Bedding ranges from 1cm to 65cm. The tuffs are fine grained, generally containing up to 15% carbonate pseudomorphs, only rare lithic fragment in the tuffs. The tuffs are generally beige to off-white, carbonate rich.  Two types of argillites in the section: 1) A brown very fine argillite which hosts up to 20% fragments, subrounded 1mm to >4.5cm (average 0.5 - 1.0cm). The fragments includes exotic lithics not seen on the property but the fragments are predominantly xtal tuffs similar to those seen at Bob Creek. There are also fragments of the interbed tuffs.  2) A black very fine argillite which at the top of the section contains abundant clasts but moving downsection loses the clastic component.  The section is crosscut by minor carbonate microveinlets and pyrite microveinlets.  Total pyrite 1%. Total carbonate 5-10%.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									45° to CA (95.57)	
									Bedding 50° to CA (95.70m)	
									60° (97.20m)	
									50° (97.45m)	
									65° (99.72m)	
									95.09 - 95.40 Rhy. dike.	
99.72	113.08	Black Argillite	Black	V. Fine	Massive	Carb.	Py.	100+	99.72 - 102.50 The very fine black argillite hosts ~5% sporadic rounded clasts 0.5-1cm in size. The rock has abundant hairthin to 3cm beige calcareous laminae. These laminae parallel the foliation/cleavage in the core. 2-5mm thick grey argillaceous interbeds are also common generally paralleling the foliation they are commonly quite contorted. The rock is quite soft and crumbles when handled. The foliation developed is likely a reflection of strong shearing developed at 100.22 - 100.69; 101.70 - 102.78; 103.24 - 104.77; 107.38 - 107.44; 109.60 - 110.40; 112.48 - 113.08.	
					to sheared				Hard non foliated massive "beds" - 102.88 - 103.08; 106.30 - 106.40; 107.50 - 107.90; 108.54 - 108.60; 108.97 - 109.22; 111.09 - 111.19. Possibly unshaped argillite.	
									Clastic beds 106.07 - 106.10; 109.45 - 109.48.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										112.30 - 112.50 Fragments are polyolithic dominated by argillite (angular) but also subrounded tuff fragments. Fragments generally < 1.0cm dia. One possible QFP clast
										112.30 - 112.50.
										110.92 - 111.09 Clastic bed with grey matrix contains one QFP clast. 45° to CA.
										Foliation: 101.50 40° to CA
										106.00 50° to CA
										109.30 45° to CA
										Bedding : 110.92 45° to CA
										112.30 60° to CA
										Pyrite in microveinlets which crosscut and parallel the foliation. Total pyrite 1-2%.
113.08	143.16	Very fine Dacite Tuff (reworked?)	Grey	V. Fine	Massive Sheared	Carb.	Py.	100+		Very fine medium grey tuff which has been intensely sheared, faulted.
										Where relatively unsheared. The rock is massive with 15% small round ovoids 1mm dia. which are slightly darker than the rest of the rock. In the less extensively sheared rock (113.38 - 116.04). There are several narrow zones (2-8cm) which are green in colour and are possibly chloritic.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									116.04 - 143.16 The rock is light grey to yellowish grey in colour. The rock is dominated by very fine tuff (still contains minute dark ovoid structures (<1mm) sporadically throughout the section).	
									120.44 - 121.38 Very fine grained sandstone-like texture. Very soft sericitic 1-2mm angular to subrounded grains. Grain supported.	
									122.94 - 124.79 Similar to above but also contains coarse zones with rounded fragments up to 4cm. Bedding 30° to CA. Grades upsection. Fragments polyolithic but intensely altered to clay/carbonate.	
									134.06 - 137.42 Chaotic coarse clastic fragments up to 4cm rounded to subangular. Entire unit has undergone intense sericite/clay alteration. (No reaction with Hcl). Like the black angillite there are abundant hairthin laminations of beige material (carbonate?).	
									Bedding : 30° (132.10m)	
									30° (132.46m)	
									40° (120.68m)	
									45° (133.53m)	
									Foliation/	
									45° (123.20m)	
									Lamination : 30° (116.69m) shear zone	
									20° (122.33m) shear zone	
									60° (127.58m)	
									45° (133.58m)	

101.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS:	
										Intense shearing 113.08 - 113.38	
										116.04 - 120.44	
										121.44 - 123.10	
										124.77 - 127.20	
										128.80 - 130.64	
										139.74 - 142.25	
										1-2% pyrite in shear zones (disseminated).	
										1-2% pyrite disseminated and blebs.	
										From 134.00 - 137.42 this corresponds to a coarse clastic zone.	
										138.85 an 8cm wide pyrite - marcasite vein 40° to CA.	
										142.25 a 1cm wide band of sphalerite blebs or a sheared up sphalerite vein.	
										Section similar to 108 - 144 of DDH BC 83-2.	
										The section contains sporadic but up to (5% locally) 1-2mm pale blue to ghost white phenocrysts/pseudomorphs. These are relatively soft and will not react with Hcl.	

102.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
143.16	151.29	QFP	Greenish	Medium	Porph.	Carb.	Py.			143.16 - 144.50 QFP breccia.
			Grey to							Highly carbonatized angular beige QFP fragments in a grey siliceous matrix. A few angular to subrounded clasts of the beige-grey overlying argillite.
			Grey							Upper contact 45° - 60°.
										144.50 - 145.33 Grey QFP with 15% carbonate pseudomorphs 1-5mm; <1% quartz eyes 203mm; 2-3% white mica 2-3mm and up to 2% locally pale blue 1-2mm phenos/pseudomorphs (soft similar to those in the argillite).
										145.33 - 148.88 Greenish grey QFP.
										Gradational contact with grey QFP 20-30% carbonate pseudomorphs 1-4mm; 1-2% quartz eyes 3-8mm dia.; 3-5% white mica. 147.10 - 148.88 up to 3% ghost white phenos/pseudomorphs ~1mm dia. Possibly albite?
										148.88 - 150.15 Similar to 145.33 - 148.88.
										Grey matrix hosts 20-30% carbonate pseudomorphs 1-4mm; 3-5% quartz eyes rounded 3mm-1cm dia; 3-5% white mica. No ghost white pseudomorphs. Upper and lower contact gradational.
										150.15 - 151.29 same as 145.33 - 148.88
										2-3% pyrite as blebs, disseminations and microfracture coatings. Trace arsenopyrite as microfracture coating. (145.05)

103.



INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
151.29	152.76	QFP Bx	Grey	Coarse	Fragmt.	Carb.	Py.	10		Very fine grained siliceous matrix hosts 40% subangular to subrounded 0.5cm to 5cm (1-3cm average) polyolithic fragments. 50% of fragments are (Q)FP which have been extensively carbonate altered. Some have been veined prior to incorporation. The remainder of the fragments are aphanitic light grey to beige similar to the overlying. Upper 10cm finer grained ( $\leq$ 0.5cm). The rest of unit (i.e. graded upsection?).	
										Upper contact 55° to CA. Pyrite in blebs and dissem. commonly selectively replacing carbonate pseudomorphs in the (Q)FP fragments.	
152.76	154.45	QFP Breccia	Grey	Coarse to Medium	Fragmt.	Carb.	Py.			Upper contact 80-90° to CA.  152.76 - 153.52 Monolithic Bx. Greenish grey (Q)FP fragments, angular to subangular 0.5cm to ? in a grey siliceous? matrix which also hosts 5-10% carbonate pseudomorphs, 2-3mm. 153.52 - 154.45 QFP gradational from overlying breccia. 10% carbonate pseudomorphs hosted by a greenish grey very fine matrix. 2-3% pyrite as blebs, disseminations and microveinlets. Pyrite commonly replacing cores of carbonate pseudomorphs. Minor carbonate microveinlets.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
154.45	161.70	QFP	Grey	Medium	Porph.	Carb.	Py.	25+		Upper contact.	
										Very fine grey matrix hosts 15%-20% 2-4mm carbonate pseudomorphs, 2-3% 2-5mm quartz eyes and 1-2% white mica 2-3mm.	
										154.45 - 155.05 1% pale beige soft pseudomorphs with pyrite rim.	
										158.50 - 155.05 Finer grained QFP 2-3mm carbonate pseudomorphs and quartz eyes pale grey colour.	
										159.35 - 161.12 ~ 2-3% 1mm ghost white pseudomorphs/phenocrysts.	
										159.90 - 161.70 QFP exhibits siliceous flow banding and minor brecciation. Flow banding 65° to CA.	
										2-3% pyrite as blebs, dissem. and microveinlets. Pyrite commonly cores carbonate pseudomorphs trace sphalerite microveinlets.	
161.70	162.15	QFP Breccia	Grey	Coarse	Fragmt.	Carb.	Py.			Grey siliceous? matrix hosts 40-50% polyolithic subangular to subrounded 0.5cm - 2cm fragments. 50% of fragments are carbonated (Q)FP. Remainder are aphanitic light grey to beige with a rare maroon fragment.	

105.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										2% pyrite as blebs disseminations and microveinlets.
162.15	183.54	Fine grained	Grey to	V. Fine	Massive	Carb.	Py.			A very fine grained/tuff grey to beige in colour. Similar to 112.72 - 150.00 in DDH 84-13 ~10% 1mm white phenocrysts faintly visible locally. The rock has been crosscut by randomly oriented white, grey and maroonish carbonate and grey to jasperoidal silica microveinlets. Also cross-cutting the rock are abundant veinlets and microveinlets of pyrite. Very fine pyrite and marcasite is also present as very fine disseminations and dustings. Microveinlets spacing generally 1cm or less. Total pyrite 3-5%. sphalerite present in an occasional veinlets.
	EOH	flow/tuff	Beige			Silica				162.70 - 163.30 - several sphalerite veinlets. 171.65 - 172.25 - dissem. sphalerite gains in carb. veinlets. 173.00 - 173.40 - discontinuous sphalerite microveinlets.
										Sulphide content in this unit is higher than in DDH 84-13. 112.72 - 150.00.
										The unit locally contains up to 3% 1mm-2mm tabular to equant pale blue soft pseudomorphs which don't react with HCl. The pseudomorphs are commonly in aggregate patches and bands. They may have pyrite rims. There is also an occasional bleb of the bright green mineral.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										165.50 - 167.85 A very fine grained beige sediment (argillite) or ash tuff. Several maroon beds. 65° to CA. 0-1% pyrite.	
										This rock is laminated bedded ~70° to CA. Upper contact 30° to CA.	
										15cm graded bed fining upsection at 65.90m. Contains beds which are 25-30% equant grey 1-2mm. Pseudomorphs won't react with HCl. (alumino silicate??)	
										Lower 40cm of sediment consists of qtz feldspar porphyritic. Matrix hosting QFP and beige aphanitic fragments.	
										178.95 - 179.38 Coarse polyolithic fragmental interbed. Subangular to subrounded 0.5 - 3.0cm fragments range from maroon porphyritic dacite tuff to grey aphanitic dacite to beige carbonated QFP. Upper contact 40°, lower contact 60° to CA.	
										175.70 - 178.50 Rock contains sporadic ovoid structures 0.5cm average dia. concentric zoning with a pyrite rim. Similar composition to rest of rock.	
										Preferential silica microveinlet orientation 80° to CA. (179.50m)	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-15

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										81.50 - 82.10 Polyolithic
										Fragmental with a grey QFP matrix. Fragments average 0.5-1.0cm dia. subangular shape crosscut by a 2-3mm wide sphalerite; pyrite carbonate veinlet.
										Pyrite microveinlets commonly have the grey-black dendritic selvage.

108.

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r.	%	A M T. L O S T		P b p p m	Z n p p m	A g p p m	A S p p m	S b p p m	A u p p b F A + A A	C u p p m
803 646	8.13	11.00	2.87		100		-	2	90	0.1	19	2.7	< 5	2
647	11.0	14.0	3.0		100		1% Py.	6	61	0.1	10	3.0	< 5	3
648	14.0	17.0	3.0		97	0.10	1% Py.	2	70	0.1	14	1.8	< 5	2
649	17.0	20.0	3.0		100		1-2% Py.	175	1580	16.6	94	40.0	100	39
650	20.0	23.0	3.0		100		1-2% Py.	40	615	0.3	130	19.0	25	13
651	23.0	26.0	3.0		100		1-2% Py.	205	1380	33.0	45	54.0	25	45
652	26.0	29.0	3.0		100		1-2% Py. < 1% Sph.	117	4400	14.0	120	89.0	55	210
653	29.0	32.0	3.0		100		1-2% Py. < 1% Sph.	160	1750	4.9	190	33.0	45	35
654	32.0	35.0	3.0		100		2-3% Py.	28	225	2.2	150	17.4	70	22
655	35.0	38.0	3.0		100		1% Py.	14	155	0.8	45	9.0	10	3
656	38.0	41.0	3.0		100		1-2% Py.	11	130	0.5	45	11.4	25	26
657	41.0	44.0	3.0		98	0.05	1-2% Py.	5	86	0.1	50	2.0	< 5	2
658	44.0	47.0	3.0		100		1% Py.	2	100	0.1	77	2.8	< 5	2
659	47.0	50.0	3.0		100		1% Py.	6	120	0.1	33	4.2	5	3
660	50.0	53.0	3.0		100		2-3% Py.	13	205	0.1	22	6.0	10	8
661	53.0	56.0	3.0		100		2-3% Py.	6	120	0.1	130	5.5	< 5	3
662	56.0	59.0	3.0		100		2-3% Py.	10	273	0.1	300	16.4	< 5	18
663	59.0	62.0	3.0		100		2% Py.	2	102	0.1	120	8.6	< 5	25
664	62.0	65.0	3.0		100		2% Py.	2	82	0.1	14	2.6	< 5	7
665	65.0	68.0	3.0		100		2% Py.	3	66	0.1	200	5.0	< 5	2
666	68.0	71.0	3.0		100		1-2% Py.	14	157	0.5	530	13.0	< 5	19
667	71.0	74.0	3.0		100		1-2% Py.	105	550	1.5	700	29.0	< 5	50
668	74.0	77.0	3.0		93	0.20	1-2% Py. < 1% Sph.	125	9200	5.8	330	30.0	125	98
669	77.0	80.0	3.0		100		1% Py.	15	568	1.5	35	14.0	10	30
670	80.0	83.0	3.0		100		1% Py.	8	810	0.2	71	3.2	< 5	7
671	83.0	86.0	3.0		100		1% Py.	33	560	0.4	29	2.4	< 5	5

PAGE 1 OF 3

DRILL HOLE NO. 84-15

EXPLORATION  
WESTERN CANADA**DRILL LOG****sample data**

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r.	%	A M T. L O S T		P b p p m	Z n p p m	A g p p m	A s p p m	S b p p m	A u p p b F A + A A	C u p p m
803 672	86.0	89.0			100		1% Py.	50	1450	2.3	390	16.8	20	32
673	89.0	92.0			100		1% Py.	64	1000	0.9	59	6.0	< 5	18
674	92.0	95.0			100		1% Py.	27	1100	0.5	46	4.0	< 5	27
675	95.0	98.0			100		1% Py.	40	580	0.8	73	3.4	20	15
676	98.0	101.0			100		1% Py.	67	1100	3.8	77	3.8	35	50
677	101.0	104.0			100		1-2% Py.	10	107	3.2	85	2.6	35	43
678	104.0	107.0			100		1-2% Py.	13	143	0.6	85	2.0	< 5	19
679	107.0	110.0			100		1-2% Py.	5	130	0.1	35	1.4	< 5	19
680	110.0	113.0			100		1% Py.	6	66	0.2	38	2.4	< 5	13
681	113.0	116.0			100		1% Py.	4	55	0.2	14	1.4	< 5	24
682	116.0	119.0			100		1-2% Py.	6	35	0.2	22	4.2	10	26
683	119.0	122.0			100		1-2% Py.	5	34	0.1	14	3.6	< 5	68
684	122.0	125.0			100		1-2% Py.	14	140	1.1	22	3.2	< 5	305
685	125.0	128.0			100		1% Py.	8	38	0.1	22	2.2	< 5	55
686	128.0	131.0			100		1-2% Py.	27	58	0.4	41	5.2	< 5	54
687	131.0	134.0			98	0.05	1% Py.	7	22	0.2	19	1.6	< 5	44
688	134.0	137.0			100		1-2% Py.	12	49	0.2	41	3.4	35	95
689	137.0	140.0			100		2-3% Py.	6	23	0.8	170	9.4	20	205
690	140.0	143.0			93	0.20	1-2% Py. < 1% Sph.	930	7200	5.8	45	14.0	820	325
691	143.0	146.0			100		2-3% Py.	220	155	6.7	36	4.8	135	50
692	146.0	149.0			100		2-3% Py.	65	235	1.2	75	1.8	50	94
693	149.0	152.0			100		2-3% Py.	1200	218	34.0	57	5.0	60	55
694	152.0	155.0			100		2-3% Py.	90	63	1.9	12	3.0	45	12
695	155.0	158.0			100		2-3% Py. Trace Sph.	65	198	0.8	24	5.8	35	29
696	158.0	161.0			100		2-3% Py.	105	240	1.0	22	8.4	55	33
697	161.0	164.0			98	0.05	3-4% Py. 1% Sph.	1330	5700	5.1	77	21.0	2000	210



EXPLORATION  
WESTERN CANADA

# DRILL LOG

## sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA + AA	Cu ppm
803 698	164.0	167.0	3.0		100		2% Py.	60	158	1.0	97	8.8	85	83
699	167.0	170.0	3.0		100		1-2% Py.	46	140	0.4	43	5.0	15	46
700	170.0	173.0	3.0		100		2-3% Py. Trace Sph.	530	650	2.1	24	7.2	75	57
701	173.0	176.0	3.0		95	0.15	3-4% Py. Trace Sph.	298	1530	2.0	20	8.8	155	108
702	176.0	179.0	3.0		100		2-3% Py.	67	820	1.5	41	21.0	50	125
703	179.0	182.0	3.0		100		2-3% Py. Trace Sph.	288	1800	1.6	250	40.0	950	130
704	182.0	183.54	1.54		100		2-3% Py.	46	125	1.8	77	19.6	155	105

111.





EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-16

DRILLING CO.  J. T. THOMAS DIAMOND DRILLING	LOCATION SKETCH  -N-	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 27, 1984	PROJECT: Buck Creek
		COLLAR	45°	090°	DATE COMPLETED: August 28, 1984	N.T.S.: 93L/7E
		76.22 m	49°		COLLAR ELEV.: 913 metres	LOCATION:
		145.43 m	49°		NORTHING: (UTM) 6017540	
					EASTING: (UTM) 654790	
					AZIMUTH: 090°	
					DEPTH: 147.26 metres	DATE LOGGED: September 9-10, 1984
HOLE TYPE					CORE SIZE: NQ	LOGGED BY: Ian Trinder

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0.0	3.95	Casing								
3.95	66.02	(Q)FP Dike	Brown to Green	Medium	Porph.	Carb.				3.95 - 15.15 Very fine brown groundmass hosts 15% 1-5 mm subequant green to off-white carbonate pseudomorphs after plag. (the green ones may contain sericite); 5% < 1 mm carbonate laths (may be pseudomorphs after mafic minerals) and 1-2% < 1 mm grains of disseminated sphalerite? The green carbonate pseudomorphs often have a dark green core with pale green rim.  The rock is crosscut by random microveinlets and veinlets of calcite (2-3%). Fractures are commonly coated with a dark green to grey green mineral which sometimes reacts with Hcl (could be a chlorite-carbonate mix or green carbonate). Grades into an occasional 5-10 cm wide beige coloured zone (more intense carbonate alteration?).



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-16

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										15.15 -	
										Upper contact 30° to CA.	
										10 cm chilled beige coloured margin grades downward into a rock similar to 3.95 - 15.15 except:	
										Very fine green groundmass hosts 15-20% 1-5 mm equant pale green - off-white carbonate pseudomorphs; 5% up to 8% locally < 1 mm grey to off-white carbonate pseudomorphs after plag. microlites; 1-2% 1-3 mm grey carbonate laths and equant pseudomorphs after mafic minerals? and 1-2% < 1 mm dissem. hematite.	
										Calcite veinlets and green fracture coatings similar to 3.95 - 15.15. 2 cm wide calcite vein 20.85 m 30° to CA.	
										The green colouration may be due to chlorite or carbonate. The green colouration appears to be an alteration feature because locally the core grades back towards a brownish coloured groundmass somewhere between the brown and green. Locally the rock is a pale beige suggesting more intense carbonate alteration.	
										An extremely rare quartz eye is visible. Some of the off-white "pseudomorphs" appear slightly pinkish on the broken fresh surface. Possibly potassic feldspar? (e.g. 26.52 m).	

113.

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										Fault gouge and extreme shearing and fracturing -
										27.80 - 32.40 Where fracturing less severe there is
										up to 5% calcite filling fractures.
										36.80 - 38.41 Same
										39.33 - 40.60 Same
										52.30 - 56.93 Strong fault gouge, green (chloritic?).
										56.93 - 60.53
										Brown (Q)FP similar to 3.95 - 15.15. "rings" when hit with hammer.
										Black argillite squeeze-ups along small green coloured
										fault zones 59.99 - 60.11; 60.24 - 60.28; 60.36 - (0.5 cm);
										60.51 - 60.53. Squeeze-ups comprise crumbly black argillite
										matrix hosting more competent argillite clasts and angular
										(Q)FP fragments derived from the immediate wall Rx.
										60.53 - 66.02
										Gradational from the brown (Q)FP into a greenish beige
										(Q)FP. (Increased carbonate alteration?) Texturally the
										same as the brown (Q)FP. 15% 1-5 mm carbonate pseudomorphs
										after plag. 5-10% carbonate pseudomorphs after 1 mm plag.
										microlites rare white mica flake. <1% irregular shaped
										1 mm pyrite blebs often rimming a hematite grain (sphalerite)
										Argillite squeeze-up 61.00 - 61.04.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-16

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									65.72 - 66.02 Green coloured fault gouge. 30° to CA.	
66.02	111.96	Black Argillite							Black very fine argillite. Often slippery and shiny on cleavage planes - graphitic?	
									Argillite contains very fine gritty laminations through the rock. These grit beds are commonly 1 mm to 5 mm thick and rythmically interbedded with the argillite.	
									This bedding has been highly disrupted and contorted due to the presence of faults in the argillite. The stress appears to have been relieved by brittle failure not plastic deformation. i.e. the laminations have undergone micro-faulting not folding.	
									Where the laminations have not undergone the intense deformation they form continuous laminae: 73.00 m 50° to CA; 79.00 m 50° to CA; 83.65 m 60° to CA; 98.00 m 45° to CA; 90.00 m 15° to CA. The rock is crosscut by ~1%. Calcite microveinlets and veinlets random orientation. Post/syn deformation. i.e. Both contorted by deformation and crosscuts deformed laminae. The argillite contains ~1% Pyrite in the form of granular blebs. This pyrite appears to be epigenetic it preferentially develops in the grit beds and micro fractures. It is post deformation.	

115.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-16

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									Fault zones - 67.13 - 68.85	
									71.34 - 71.40	
									71.70 - 71.80	
									72.00 - 72.20	
									73.60 - 73.70	
									100.20 - 100.80 Most intense 100.20 - 100.30	
									101.63 - 102.13	
									104.50 - 105.18	
									106.50 - 107.33	
									~86.00 - ~91.00	
									Many of the grit layers have been completely broken up and now exist as round balls and ovoids. This could be a primary sedimentary texture, since there is still primary layering coexisting with these grit rip-ups?	
									107.50 - 110.96	
									Black argillite becomes clastic with one fragment 10 cm dia. (average 0.5-1 cm dia.) ~ 10% fragments. Several elongate rip-up clasts of underlying sandstone? or possibly interbed.	
110.96	122.23	Volcanogenic Sandstone	Grey	Fine	Fragmt.	Carb.		50+	Fine grained volcanogenic sandstone carrying up to 30% 0.5 cm fragments locally (difficult to distinguish from matrix). Upper contact 45° to CA. Upper 20 cm is a dirty grey colour minor argillite component.	

116.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-16

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										The unit generally becomes coarser grained down section.
										Bedding: 115.62 m = 70° to CA.
										119.10 m = 25° to CA.
										119.25 m = 40° to CA
										112.70 - 113.30
										Green chloritic? zone apparently the same rock type colouration and mineralogy could represent a minor shear zone. Upper contact 25° to CA; lower contact 10° to CA.
										The core is crosscut by up to 5% grey carbonate and white calcite veinlets and microveinlets. Random orientation. Carbonate is also disseminated throughout the matrix.
										No mineralization visible.
122.23	124.70	Volcanogenic Sandstone	Maroon	Fine	Massive	Carb.		25		Fine grained maroon volcanogenic sandstone? Very fine maroon groundmass hosts 10% < 1 mm beige carbonate pseudomorphs and 2% soft blue grey mineral filling 2-5 mm vugs. (Does not react with HCl). Locally bleached a pale beige to grey colour similar to overlying unit colour. Bleaching generally restricted to areas which have been fractured. Upper contact faulted; lower contact very fine grained; sheared or primary layering. 68° to CA.

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										Occasional calcite filled vug 2-5 mm dia.
										Lower 70 cm bleached.
124.70	147.26	Andesite Flow	Medium	Medium	Massive	Carb.		50		Massive andesite flow (possibly a dike). No chilled margin or brecciated margin. Equigranular and homogenous. Rock comprises ~40% carbonate pseudomorphs after plagioclase microlites 1-2 mm x <0.5 mm. 15% dark green chlorite pseudomorphs after mafic minerals (1-3 mm dia.) Remainder very fine grained grey to brownish grey unidentifiable groundmass.
	EOH		Green		Equi-Granular	Silica				The rock is crosscut by up to 5% 1 mm to 1 cm calcite veinlets randomly oriented. Also present are up to 1% calcite vug fillings.
										124.70 - 126.90 Rock is bleached beige colour; gradational into the green coloured rock below.
										135.46 - 135.68 - fine grained zone; upper contact 50° to CA; lower contact 45° to CA. Only contains ~5% of the chlorite pseudomorphs.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										136.00 - EOH
										Calcite veinlets often have an outer rim of pinkish to green silica. Also present are pale brown zones up to 2 cm wide, average 45° CA, which texturally resemble the rock but are harder silicification?
										No mineralization visible.
										130.45 - 130.65 - Bleaching around calcite veinlets.
										132.33 - 132.48 - Fine zone similar to 135.46 - 135.68 contains 65° to CA.



EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS					
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Au ppb FA + AA
803	802	3.95	7.00	3.05	100		1% Sphalerite	-	55	0.1	12	0.2	< 5
803	7.0	10.0	3.0		97	0.10	1% "	-	55	0.1	9	0.2	< 5
804	10.0	13.0	3.0		100		1-2% "	-	63	0.1	4	0.1	< 5
805	13.0	16.0	3.0		100		1-2% "	-	50	0.1	3	0.1	< 5
806	16.0	19.0	3.0		100		1-2% "	-	38	0.1	3	0.2	< 5
807	19.0	22.0	3.0		100		1-2% "	-	40	0.1	3	0.2	< 5
808	22.0	25.0	3.0		100		1-2% "	-	40	0.1	3	0.1	< 5
809	25.0	28.0	3.0		100		1-2% "	-	40	0.1	4	0.1	< 5
810	28.0	31.0	3.0		100		1-2% "	-	55	0.1	19	0.3	< 5
811	31.0	34.0	3.0		87	0.40	1-2% "	-	128	0.1	7	0.4	< 5
812	34.0	37.0	3.0		100		1-2% "	-	35	0.1	19	0.3	< 5
813	37.0	40.0	3.0		100		1-2% "	-	28	0.1	19	0.5	< 5
814	40.0	43.0	3.0		100		1-2% "	-	33	0.1	3	0.3	< 5
815	43.0	46.0	3.0		100		1-2% "	-	37	0.1	5	0.4	5
816	46.0	49.0	3.0		95	0.15	1-2% "	-	43	0.1	4	0.2	5
817	49.0	52.0	3.0		100		1-2% "	-	42	0.1	4	0.2	< 5
818	52.0	55.0	3.0		100		< 1% "	-	46	0.1	4	0.2	< 5
819	55.0	58.0	3.0		100		< 1% "	-	55	0.1	3	0.8	< 5
820	58.0	61.0	3.0		100		1-2% "	-	58	0.2	5	0.2	< 5
821	61.0	64.0	3.0		100		< 1% Py.	-	368	0.1	5	0.1	< 5
822	64.0	67.0	3.0		88	0.35	1% Py.	-	2000	0.3	24	0.4	< 5
823	67.0	70.0	3.0		97	0.10	1% Py.	-	410	0.9	110	1.7	< 5
824	70.0	73.0	3.0		100		1% Py.	-	165	0.3	79	1.0	< 5
825	73.0	76.0	3.0		100		1% Py.	-	185	0.2	50	1.2	< 5
826	76.0	79.0	3.0		100		1% Py.	-	145	0.1	32	0.6	< 5
827	79.0	82.0	3.0		100		1% Py.	-	120	0.1	36	0.6	< 5

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

S A M P L E					C O R E   R E C O V E R Y		V I S U A L   E S T I M A T E S ( % O R E M I N E R A L S )	A S S A Y   R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p . G r	%	A M T . L O S T		P b p p m	Z n p p m	A g p p m	A S p p m	S b p p m	A u   p p b F A   + A A	
803	828	82.0	85.0	3.0		100		1-2% Py.	-	105	0.1	36	0.7	< 5
	829	85.0	88.0	3.0		100		1-2% Py.	-	148	0.1	20	0.6	< 5
	830	88.0	91.0	3.0		100		1-2% Py.	-	143	0.1	24	0.4	< 5
	831	91.0	94.0	3.0		100		1% Py.	-	198	0.1	67	1.0	< 5
	832	94.0	97.0	3.0		100		1% Py.	-	100	0.2	32	0.6	< 5
	833	97.0	100.0	3.0		100		1% Py.	-	100	0.2	59	1.2	<10
	834	100.0	103.0	3.0		97	0.10	1% Py.	-	80	0.3	32	2.6	< 5
	835	103.0	106.0	3.0		100		1% Py.	-	160	0.3	43	2.5	< 5
	836	106.0	109.0	3.0		100		1% Py.	-	178	0.4	50	2.6	< 5
	837	109.0	112.0	3.0		98	0.05	1% Py.	-	75	0.3	39	2.4	< 5
	838	112.0	115.0	3.0		100		-	-	65	0.1	17	0.2	< 5
	839	115.0	118.0	3.0		100		-	-	62	0.1	16	0.2	65
	840	118.0	121.0	3.0		100		-	-	85	0.4	29	0.4	20
	841	121.0	124.0	3.0		100		-	-	64	0.2	22	0.4	< 5
	842	124.0	127.0	3.0		93	0.20	-	-	65	0.2	7	0.2	< 5
	843	127.0	130.0	3.0		100		-	-	55	0.3	3	0.1	< 5
	844	130.0	133.0	3.0		100		-	-	54	0.2	3	0.1	< 5
	845	133.0	136.0	3.0		98	0.05	-	-	58	0.1	3	0.1	< 5
	846	136.0	139.0	3.0		100		-	-	63	0.2	3	0.1	< 5
	847	139.0	142.0	3.0		100		-	-	60	0.3	4	1.5	< 5
	848	142.0	145.0	3.0		100		-	-	60	0.3	4	0.2	< 5
	849	145.0	147.26	2.26		97	0.10	-	-	59	0.2	3	0.1	< 5

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DRILL HOLE NO. 84-16



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-17

DRILLING CO.  J. T. THOMAS DIAMOND DRILLING	LOCATION SKETCH  -H-	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR	45°	090°	August 29, 1984	Buck Creek
HOLE TYPE DDH		76.22 m	51°		DATE COMPLETED:	N.T.S.:
		152.44 m	51°		August 31, 1984	93L/7E
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					(UTM) 6017545	
					EASTING:	
					(UTM) 655095	
					AZIMUTH:	
					090°	
					DEPTH:	DATE LOGGED:
					152.44 m 500 ft	September 11-12, 1984
					CORE SIZE:	LOGGED BY:
					NO	Ian Trinder

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
0.0	14.50	Casing								
14.50	29.58	(Q)FP Dike	Medium Greenish Grey	Medium to Fine	Porph.	Carb.	Py.	25 open	Very fine greenish grey groundmass hosts 10-15% 1 mm - 3 mm off-white to pale green carbonate pseudomorphs after plagioclase; 1% 2-3 mm white mica flakes and books; trace (very rare) quartz eyes 2-4 mm dia.  The groundmass also hosts <1% extremely fine (<0.5 mm) disseminated pyrite euhedra.  4 cm chilled margin at base of section oriented 25° to CA.  Fractures commonly have a thin (<1 mm) grey green coating which does not react with HCl. Relatively soft.  Occasional carbonate microveinlet.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-17

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
29.58	35.70	Dacite	Dk. Grey	Aphanitic	Massive	Carb.	Py.	100+		Dark grey aphanitic groundmass hosts 5% <0.25 mm white to light grey rounded to angular fragments/pseudomorphs?
		Ash Tuff						Carb.		
										The rock is crosscut by abundant randomly oriented carbonate microveinlets which have infilled a very angular and random fracture pattern.
										The rock also contains up to 3% pyrite locally as microfracture filling, generally associated with strong carbonate microveinletting. Overall pyrite content <1%.
										One 5 cm ovoid concretion at 35.00 m. Zones, contains 10% very fine dissem. pyrite.
35.70	41.40	Dacite	Lt. Grey	Aphanitic	Massive	Carb.		100+		Texturally identical to 29.58 - 35.70 except for colour.
		Ash Tuff								Calcite microveinlets >1 mm often have a 1-2 cm wide selvage which is dark in colour.
										No mineralization evident.
										38.72 - 38.80 Interbed of dark grey ash tuff.
										Carbonate in microveinlets 2-3%.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-17

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE			
41.40	46.50	Dacite	Dk. Grey	Aphanitic	Massive	Carb.	Py.	100+		Similar to 29.58 - 35.70.	
		Ash Tuff								<1% pyrite not as abundant as in 29.58 - 35.70.	
										42.40 - 46.50 - Fault gouge.	
46.50	74.85	Dacite	Med.	Aphanitic	Massive	Carb.	Py.	100+		Aphanitic rock which appears similar to 29.58 - 35.70.	
		Ash Tuff	Grey				(Apseno - Pyrite & CPY)	70% open 25% Carb. ± Py. 5% Pyrite		70% of the microfractures are open. The remainder are carbonate and or sulphide microveinlets. Microfracturing/microveinlets randomly oriented. Carbonate is off-white calcite except for one 1 cm wide veinlet which has a core of pink carbonate (55.00 m).	
										Carbonate veinlets >3 mm thickness generally have orientations 60° - 90° to CA.	
										Total pyrite 2%.	
										1% as disseminated euhedra (some have pyramidal forms). (59.60)	
										1% as microveinlets (may or may not have associated carbonate gangue).	
										One 1 mm aspy - carbonate microveinlet 30° to CA. 48.80 m.	
										When off-white - beige carbonate becomes pervasive throughout the rock in zones of shearing the pyrite content also increases up to 3-4% locally. (e.g. 54.40 - 56.90).	

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# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										Several blebs CPY (2-3 mm) 55.08 m.	
										Fault gouge - 50.30 - 50.55	
										(Upper contact 15° to CA)	
										(Lower contact 40° to CA)	
										52.40 - 52.65	
										53.55 - 53.58	
										55.70 - 56.90	
										58.20 - 58.90 (subparallel to CA)	
										60.65 - 61.35 (subparallel to CA)	
										65.55 - 65.85	
										69.30 - 69.60	
										73.63 - 73.75	
										~ 55.00 - end of unit there is a gradational change in colour from grey to greyish beige reflecting an increase in carbonate in the groundmass downhole.	
										60.40 m one 1 cm subangular fragment.	
										66.20 - 66.50 A zone crosscut by off-white to beige carbonate, (most abundant), soft green carbonate and minor silica veinlets. Veining makes up to 80% of the zone. Associated with the veining is ~10% pyrite blebs up to 0.5 cm; and 2-3% CPY blebs. Upper and lower contact 45° to CA.	

EXPLORATION  
WESTERN CANADA**DRILL LOG**

HOLE NO. BC 84-17

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
									67.80 - 68.05 Pyrite blebs up to 1cm. Upper and lower contact 45° to CA. Zones similar to 66.20 -66.50.	
									Below 55.00 the rock does not have to be scratched to react with Hcl. Probably contains 30+% carbonate. Pale grey green coating commonly on fractures, no reaction with Hcl.	
74.85	75.53	Dacite Ash Tuff	Green to Beige	Aphanitic	Massive	Carb.	Py.		A gradational zone from the overlying dacite ash tuff to the underlying green andesitic tuff. Zone contains up to 15% disseminated and blebby pyrite. Green colour does not become evident until ~ 75.45. Carbonate dissem. throughout groundmass.	
75.53	91.54	Andesite Tuff	dk. Green	V. Fine to Aphanitic	Massive	Carb.	Py.	50-100	Very fine to aphanitic dark green (to medium green locally) groundmass. Locally hosts 10% dark green ovoids up to 2-3 cm dia. which have carbonate rich cores (green) and darker green less carbonate rich chlorite? rims. The groundmass also contains abundant carbonate 30+%. In addition to the carbonate in the groundmass the rock is crosscut by random white calcite microveinlets.	

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DRILL HOLE NO. 84-17

# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS	
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
											The rock contains overall 3% Blebby pyrite and 2% blebby looking pyrite microveinlets. This pyrite is not uniformly distributed throughout the rock however, and locally accounts for 10% of the rock.
											56.27 - 56.73 In addition to 4% blebby pyrite the core contains 3% disseminated grains of sphalerite.
											78.48 - 78.80 Rock contains ~1% blebby CPY.
											Minor calcite and hematite associated with some of the blebby pyrite microveinlets.
											81.35 - 81.70 Pale green epidote? pervasive throughout the rock.
											83.75 - 84.75 Biege bleached zone contacts gradational.
											84.75 - 89.00 Minor (<1% black fibrous aggregates (< 0.5 cm) of sphal.



# DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS	
91.54	99.40	Dacite?	Beige	V. Fine	Massive	Carb.	Py., Sph.	100+		Very fine to aphanitic beige to locally light grey giving	
		Ash Tuff	to				Gal.	70% Carb.		it a patchy appearance. The grey areas generally effervesce	
			V. Light					30% Sulph.		when Hcl is applied while the beige coloured areas do not.	
			Grey							Possibly a change to a more Fe rich carbonate. Below 94.00	
										the grey areas do not react with Hcl.	
										The rock contains 2% blebby looking pyrite microveinlets	
										and veinlets (i.e. edges are not sharp and straight and	
										1% dissem. pyrite. Locally up to 1% sphalerite in micro-	
										veinlets. Carbonate microveinlets (some with minor pyrite/	
										sphalerite) abundant and random.	
										95.20 - 96.04 Polyolithic breccia.	
										70% angular 0.5-2.0 cm fragments include maroon and grey	
										aphanitic and porphyritic dacite tuff; argillite and a	
										pale greenish grey aphanitic Rx. The zone is clast	
										supported with interstices to the fragments filled by	
										smaller lithic fragments. Rock flour and 5% white calcite,	
										3-5% sphalerite, 3-5% pyrite and trace galena and CPY.	
										Upper contact and lower contact 45° to CA. Lower contact	
										marked by fault gouge.	
										A tectonic breccia.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										96.80 - 99.40 and rock contains up to 10% concentrically zoned ovoids up to 2cm (generally 1 cm) carbonate rich often with a core and outer rim of pyrite. The unit grades into a fault zone at 99.40.
99.40	106.03	Fault gouge	Grey to Beige	Gine	Sheared	Clay	Py., Sph.			Fault zone which may have been originally the same lithology as the overlying unit.  Now highly sheared and disrupted contains ~10% dissem. and granular blebs of pyrite; and 100.55 - 100.85 5% dissem. sphalerite grains. 102.58 - 102.73 5% dissem. sphalerite grains, 1% CPY blebs and <1% dissem. grains and galena.  103.25 - 103.45 Several discontinuous 1 mm sphalerite microveinlets.  Some pyrite has concentrated along shear planes.  104.55 - 105.25 Pale apple green mineral abundant in the gouge. Soft and greasy feel. Possibly alunite?  104.14 - 106.03 Was probably a different unit than 91.54 - 99.40.

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
106.43	117.60	(Q)FP	Light Greenish Grey to Dark Grey	Medium	Porph.	Carb.	Py., Sph.	50+ +90% Carb.		Very fine light greenish grey to dark grey groundmass hosts 15% 1 mm to 8 mm (glomerocrysts) carbonate pseudomorphs after plagioclase. Where the groundmass is greenish grey the pseudomorphs are off-white to green but where it is dark grey the phenocrysts are ghost white and are very hard not carbonated. The dark grey zones represent pervasive silicification.  The groundmass also hosts <1% 2-3 mm quartz eyes, 1% white mica; occasional grey 1-2 cm rounded xenoliths.  Carbonate is also present as hairthin microfractures (1-2%). Occasional veinlet up to 5 mm wide. The (Q)FP contains 1% (2% locally) very fine disseminated euhedra and blebs of pyrite, 1% pyrite microveinlets and trace sphalerite associated with pyrite carbonate microveinlets.  Upper contact 45° to CA; upper 3 cm faulted. Lower contact 75° to CA.	
117.60	147.72	Andesite Flow	Medium Green	V. Fine to Fine	Massive to Brecciated	Carb.	Py.	50+ 60% Carb. 40% Sulph.		117.60 - 124.89 Fine grained massive flow with zone of autobreccia? 119.50 - 121.10. The rock contains up to 5% 1 mm carbonate pseudomorphs. Also throughout the section are faintly visible 1-3 mm subangular fragments? of the same composition.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										as the remainder of the rock (account for >80% of the rock locally) probably represents brecciation of the flow but may suggest that this section is actually a fine lapilli tuff.
										The autobreccia zone is only faintly visible.
										The section is crosscut by microveinlets of white carbonate. (Average $\leq$ 1 mm but up to 1 cm wide). (1-2%)
										Pyrite is present as <1% disseminated euhedra, 1% disseminations along microfractures and 1% microveinlets.
										Grades into underlying autobreccia.
										124.89 - 147.72
										Andesite flow breccia. Rock is composed of up to 50% green to beige very fine to aphanitic fragments similar to the overlying massive section in a green to grey aphanitic groundmass. Fragments are angular to sub-rounded (generally subangular) and range in size from < 0.5 cm to ~4.0 cm.
										Both matrix and fragments are carbonate rich.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									129.25 - 129.95	
									132.93 - 147.72	
									Autobreccia becomes beige to grey in colour. It is gradational from the green autobreccia. The fragmental nature of the rock is still visible but finer. Textures tend to be obliterated. The change in colour may reflect a change to a more Fe rich carbonate dissem. throughout matrix and fragments. The change in colour is also associated with an increase in light grey carbonate zones, patches and veins.	
									Carbonate is dissem. throughout the section and is present as 1-2% random microveinlets. In the beige coloured zones the veining becomes more intense and carbonate veinlets up to 1.5 cm wide are occasionally present. One pink carbonate vein 1.5 cm wide 40° to CA, only reacts with Hcl when scratched. (130.60 m)	
									In green zones 1% dissem. and blebby pyrite; 1% pyrite in microveinlets.	
									In beige zones ~1% dissem. and blebby pyrite; 2% pyrite in microveinlets. Trace sphalerite in carbonate microveinlets.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-17

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										140.45 - 144.65 Sporadic round to square structures average 0.5-1.0 cm locally up to 10%. They are dark green in colour and commonly contain up to 30° pyrite and minor carbonate patches. Some show an internal cross shape, could these be pseudomorphs after andalusite?	
										146.15 - 147.72 Intense microfracturing with dark sulphide coatings.	
147.72	152.44	(Q) FP	Lt. Grey	Medium	Porph.	Carb.	Py.	20-30		Very fine grey groundmass hosts 20% 1 mm to 8 mm off-white carbonate pseudomorphs (two size ranges 1-3 mm and >5 mm the >5 mm pseudomorphs were probably plagioclase glomerocrysts); < 1% white mica flakes 2-3 mm (also in books) and trace quartz eyes.	
	EOH									Carbonate is also present as microveinlets ~1%.	
										2-3% disseminated and blebby pyrite.	
										<1% pyrite in microveinlets.	
										Upper contact 30° to CA.	
										Upper 10cm chilled.	

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r	%	A M T. L O S T		P b ppm	Z n ppm	A g ppm	A S ppm	S b ppm	A u p p b FA + AA	-
803	898	14.50	17.00	2.50	85	0.45	< 1% Py.	-	70	0.1	14	0.4	10	-
	899	17.0	20.0	3.0	100		< 1% Py.	-	76	0.1	10	0.4	5	-
	900	20.0	23.0	3.0	95	0.15	< 1% Py.	-	72	0.1	7	0.2	< 5	-
	901	23.0	26.0	3.0	100		< 1% Py.	-	71	0.1	12	0.2	< 5	-
	902	26.0	29.0	3.0	100		< 1% Py.	-	70	0.2	16	0.6	5	-
	903	29.0	32.0	3.0	83	0.50	< 1% Py.	-	2000	4.3	90	5.0	5	-
	904	32.0	35.0	3.0	55	1.35	< 1% Py.	-	550	1.2	220	3.2	5	-
	905	35.0	38.0	3.0	35	1.95	< 1% Py.	-	4100	4.5	1350	14.6	20	-
	906	38.0	41.0	3.0	53	1.40	-	-	88	0.3	36	0.6	< 5	-
	907	41.0	44.0	3.0	37	1.90	< 1% Py.	-	311	1.1	155	2.6	10	-
	908	44.0	47.0	3.0	30	2.19	-	-	200	1.3	350	3.2	5	-
	909	47.0	50.0	3.0	97	0.10	< 1% Py. Trace Aspy.	-	204	1.0	77	2.0	< 5	-
	910	50.0	53.0	3.0	97	0.10	1% Py.	} Pb & Cu	255	1.4	190	4.4	30	-
	911	53.0	56.0	3.0	100		2% Py. Trace CPY		207	1.4	103	2.6	45	-
	912	56.0	59.0	3.0	87	0.40	1% Py.		750	2.6	235	6.6	20	-
	913	59.0	62.0	3.0	100		1% Py.		410	1.7	210	4.8	30	-
	914	62.0	65.0	3.0	93	0.20	1% Py.		255	4.2	77	2.2	25	-
	915	65.0	68.0	3.0	100		2% Py. Trace CPY		500	4.8	92	2.4	95	-
	916	68.0	71.0	3.0	97	0.10	2% Py. Trace CPY		129	3.9	69	1.8	35	-
	917	71.0	74.0	3.0	100		1-2% Py.	157	1.3	51	1.2	25	-	
	918	74.0	77.0	3.0	100		3% Py. 1% Sph.	92	1.0	57	0.6	60	-	
	919	77.0	80.0	3.0	100		3-5% Py. Trace CPY	107	0.7	24	0.1	50	-	
	920	80.0	83.0	3.0	100		2-3% Py.	93	0.5	20	0.6	20	-	
	921	83.0	86.0	3.0	100		3% Py.	-	730	3.2	360	45.0	110	-
	922	86.0	89.0	3.0	100		3% Py.	-	192	0.7	73	1.6	60	-
	923	89.0	92.0	3.0	100		2% Py.	-	121	1.2	16	1.0	115	-



SELCO

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA ± ΔΔ	-
803 924	92.0	95.0	3.0		100		3% Py. 1% Sph.	-	5000	3.7	67	2.0	75	
925	95.0	98.0	3.0		100		2-3% Py. 2% Sph.	-	> 10000	7.6	200	2.8	150	
926	98.0	99.0	1.0		100		2-3% Py. 1% Sph.	-	940	2.3	83	2.0	50	
927	99.0	100.0	1.0		100		5-6% Py.	-	730	10.0	200	4.0	185	
928	100.0	101.0	1.0		100		8-10% Py. 1% Sph.	-	5500	9.5	435	6.8	55	
929	101.0	104.0	3.0		100		8-10% Py., 1% Sph., 1% CPY., 1% Gal.	-	7300	31.0	450	5.6	990	
930	104.0	105.0	1.0		100		4% Py. 1% Sph.	-	1950	1.9	38	1.0	10	
931	105.0	106.0	1.0		100		2% Py.	-	87	2.3	30	0.6	10	
932	106.0	107.0	1.0		100		1% Py.	-	69	0.1	17	0.6	20	
933	107.0	110.0	3.0		100		1-2% Py.	-	74	0.4	27	1.0	< 5	
934	110.0	113.0	3.0		100		1-2% Py.	-	180	1.1	420	4.8	30	
935	113.0	116.0	3.0		100		1-2% Py. Trace Sph.	-	152	1.0	260	2.8	20	
936	116.0	119.0	3.0		100		2% Py. Trace Sph.	-	140	1.0	65	0.2	60	
937	119.0	122.0	3.0		99	0.04	2% Py.	-	280	0.8	75	1.0	70	
938	122.0	125.0	3.0		100		2% Py.	-	380	0.9	101	2.0	20	
939	125.0	128.0	3.0		100		1-2% Py.	-	166	0.6	43	1.8	15	
940	128.0	131.0	3.0		100		1-2% Py.	-	220	0.2	45	1.2	< 5	
941	131.0	134.0	3.0		100		1-2% Py.	-	250	0.5	55	1.6	< 5	
942	134.0	137.0	3.0		100		2-3% Py.	-	140	1.6	101	1.4	20	
943	137.0	140.0	3.0		99	0.05	2-3% Py.	-	147	0.9	67	1.8	15	
944	140.0	143.0	3.0		100		2-3% Py.	-	40	0.1	41	1.0	< 5	
945	143.0	146.0	3.0		100		2-3% Py.	-	34	0.1	24	1.0	< 5	
946	146.0	149.0	3.0		100		2-3% Py.	-	56	1.4	33	1.8	5	
947	149.0	152.44	3.44		100		2-3% Py.	-	131	0.5	103	2.0	< 5	

MINERALIZED  
FRUIT ZONE

135.

PAGE 2 OF 2

\* Box is tipped over core replaced in proper order to the best of my ability.  
Affects all of sample 925, 9/10 sample 924, 1/3 sample 926.

DRILL HOLE NO. 84-17



EXPLORATION  
WESTERN CANADA**DRILL LOG**

HOLE NO. BC 84-18

DRILLING CO. J.T. THOMAS DIAMOND DRILLING	LOCATION SKETCH -N-	DEPTH COLLAR 76.22 m 148.48 m	TESTS DIP ANGLE 47° 52° 52°	AZIMUTH 090°	DATE STARTED: August 31, 1984 DATE COMPLETED: September 2, 1984 COLLAR ELEV.: 937 metres NORTHING: (UTM) 6018500 EASTING: (UTM) 655055 AZIMUTH: 090° DEPTH: 148.48 m 487 ft. CORE SIZE: NQ	PROJECT: Buck Creek N.T.S.: 93L/7E LOCATION:  DATE LOGGED: September 9-10, 1984 LOGGED BY: Ian Trinder
HOLE TYPE DDH						

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE		REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
0.00	5.10	Casing									
5.10	20.43	(Q)FP Dike	Grey	Medium	Porph.	Carb.	Py., Sph	50+		Very fine grained groundmass hosts 15-20% 1-4 mm carbonate pseudomorphs after plagioclase; <1% white mica books (2 x 2 x 3 mm) and trace quartz eyes 2-5 mm average. 3-5% granular pyrite blebs generally replacing carbonate pseudomorphs, occasional bleb up to 1 cm. A very pale blue mineral occasionally associated with the pyrite blebs. <1% pyrite also found as microveinlets. Rare grain of sphalerite in either blebs or microveinlets. Extremely rare chalcopyrite visible on one fracture coating (16.25 m).	
										14.93 - 3 cm wide sphalerite (50%) - pyrite (35%) - galena (10%) - CPY (5%) veinlet.	
										15.25 - 0.5 cm wide sphalerite - pyrite veinlet.	
										12.45 - 12.85 xenolith of underlying very fine dacite tuff.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-18

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
20.43	94.82	Dacite Tuff (reworked?)	Grey	Aphanitic to V. Fine	Bedded	Carb.	Py.	50+		Very finely to coarsely interbedded (1-2 cm to 1 m) ash tuff and very fine gritty ash tuff (salt and pepper texture); aphanitic grey groundmass hosts ~50% <0.5 mm beige weathering carbonate? pseudomorphs. (No reaction with Hcl.).
										The small interbeds often appear deformed and contored as well as broken.
										Bedding: 29.60 m 45° to CA
										38.45 m 35° to CA
										44.15 m 20° to CA
										46.65 m subparallel to CA
										48.20 m 35° to CA
										50.35 m 25° to CA
										54.10 m 25° to CA
										59.16 m 70° to CA
										62.90 m subparallel to CA
										53.50 m 40° to CA
										69.64 m 25° to CA



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-18

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
											24.40 - 25.30 Volcanogenic sandstone: Fine grained, massive angular. quartz grains $\leq$ 1 mm dominant (>60%).
											54.10 - 54.55 Coarse clastic sedimentary interbed. Fragments subangular up to 1 cm dia.
											58.46 - 59.16 Volcanogenic fine grained sandstone as in 24.40 - 25.30.
											71.30 - 78.66 Volcanogenic fine grained sandstone as in 24.40 - 25.30.
											80.40 - 80.70 Highly fractured green chloritic? zone with associated increase in blebby pyrite up to 5%.
											88.72 - 90.40 Coarse fragmental zone. An intrusive breccia related to the underlying (Q)FP dike. A beige- grey carbonate rich fine grained matrix hosts 40% < 0.5 to 5cm subangular to angular fragments. The fragments are dominantly (Q)FP and host tuff. Upper contact $\sim$ parallel to CA. Lower contact $\sim$ 20° to CA.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									Overall:	
									25.30 - 33.00 Dominantly ash tuff minor gritty interbeds.	
									33.00 - 78.66 Gritty tuff dominant minor ash tuff interbeds.	
									78.66 - 94.82 Dominantly ash tuff minor gritty and fragmental interbeds.	
									Total pyrite: 2-3%	
									1-2% microveinlets.	
									1-2% blebs & disseminations.	
									Blebs and disseminations more abundant than micro-fractures in the gritty tuff and sandstone beds.	
									Occasional randomly oriented calcite veinlet.	
94.82	148.48	(Q)FP	Medium	Medium	Porph.	Carb.	Pyrite	25-50	Very fine grained grey groundmass hosts 15-20% 1-3 mm carbonate pseudomorphs after plagioclase. Extremely rare quartz eyes 2-3 mm (only 2 seen).	
	EOH	Dike	Grey			Silica				
						Hematite				
									95.05 - 95.30 Groundmass is reddish-brown hematitic? stained in a selvage around a 2-3 cm wide beige carbonate? veinlet (little to no reaction with HCl.).	
									Similar zone 95.70 - 96.00 m.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-18

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									1-2 cm banding 95.70 - 96.00.	
									Could be flow banding or silicification selvages along microfractures.	
									95.30 - 95.66 Xenolith of overlying tuff.	
									103.08 - 103.48 Xenolith of overlying tuff.	
									102.44 - 105.10 QFP include 5-10% 1-5 mm blebs and ovoids of a medium blue-grey undetermined mineral or pseudomorphs.	
									103.60 - 103.75 Xenolith of overlying tuff.	
									105.35 - 107.66 Xenolith of overlying tuff with fractures up to 10 cm wide filled with dike material.	
									108.64 - 110.15	
									2-8 mm darker grey siliceous bands 35° to CA. Commonly pyrite blebs developed along them. Probably represent siliceous selvage along microfractures but may also be flow banding.	
									111.42 - 111.72 Siliceous banding 40° to CA.	
									119.75 - 121.60 Siliceous banding and brecciation. Angular breccia fragments up to 3 cm dia. Banding 50° to CA.	



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-18

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									122.90 - 123.10 Siliceous banding 25° to CA.	
									126.20 - 127.00 Siliceous banding 20° to CA.	
									134.03 - 134.25 Siliceous banding 25° to CA.	
									142.50 Siliceous banding 50° to CA.	
									134.08 - 134.35 Fractured and brecciated zone sealed with silica and sulphides (pyrite).	
									134.65 - EOH The bluish-grey blebs/pseudomorphs appear sporadically. Locally up to 3%.	
									141.85 - 142.18 & 144.0 - 144.60 Coarser grained zones carbonate pseudomorphs up to 5 mm. Gradational to distinct contacts.	
									Fault zones:	
									96.10 - 97.30	
									100.45 - 102.64	
									104.90 - 105.30	
									110.25 - 110.50	
									121.68 - 121.78	
									139.90 - 140.40	

141.



EXPLORATION  
WESTERN CANADA

# DRILL LOG

HOLE NO. BC 84-18

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS (MINERALIZATION, TYPE, AGE RELATIONS)
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
									Total pyrite 2-3%.	
									2% disseminated and blebs.	
									1% microveinlets.	
									Minor silica microveinlets.	
									Carbonate dominantly in pseudomorphs.	
									One sphalerite - pyrite - galena veinlet (2 cm wide) at 114.50 m 50% sphalerite; 48% pyrite; 2% galena.	
									45° to CA.	

142.

EXPLORATION  
WESTERN CANADA

## DRILL LOG

sample data

S A M P L E					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	A S S A Y R E S U L T S							
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA + AA	-	
803	850	5.10	8.00	2.90		100		3-5% Py.	-	110	1.4	65	0.4	55	
	851	8.0	11.0	3.0		100		3-5% Py.	-	300	3.6	250	7.6	100	
	852	11.0	14.0	3.0		100		3-5% Py. < 1% Sph., Trace Gal. & CPY.	-	2430	9.5	670	19.0	325	
	853	14.0	17.0	3.0		100		3-5% Py., Trace Sph.	-	2200	15.2	400	5.4	250	
	854	17.0	20.0	3.0		100		3-5% Py.	-	230	2.9	200	1.4	110	
	855	20.0	23.0	3.0		87	0.40	2-3% Py.	-	345	5.3	280	1.9	90	
	856	23.0	26.0	3.0		58	1.25	2-3% Py.	-	315	2.1	100	1.2	25	
	857	26.0	29.0	3.0		75	0.75	2% Py.	-	275	2.1	240	4.2	65	
	858	29.0	32.0	3.0		97	0.10	2% Py.	-	85	3.0	170	1.8	50	
	859	32.0	35.0	3.0		97	0.10	2% Py.	-	90	1.9	180	2.0	45	
	860	35.0	38.0	3.0		100		2% Py.	-	70	1.2	220	2.0	45	
	861	38.0	41.0	3.0		100		2% Py.	-	95	0.6	240	1.9	55	
	862	41.0	44.0	3.0		100		2% Py.	-	80	0.6	73	1.2	< 5	
	863	44.0	47.0	3.0		100		1-2% Py.	-	95	1.7	160	0.6	40	
	864	47.0	50.0	3.0		100		1-2% Py.	-	140	2.0	90	0.8	20	
	865	50.0	53.0	3.0		97	0.10	2% Py.	-	160	2.7	140	3.2	35	
	866	53.0	56.0	3.0		100		1-2% Py.	-	187	3.9	90	2.2	30	
	867	56.0	59.0	3.0		93	0.20	1-2% Py.	-	147	1.4	125	1.4	45	
	868	59.0	62.0	3.0		100		1-2% Py.	-	61	0.5	65	0.6	35	
	869	62.0	65.0	3.0		93	0.20	1-2% Py.	-	62	0.7	81	0.6	25	
	870	65.0	68.0	3.0		100		1-2% Py.	-	128	1.1	90	1.0	40	
	871	68.0	71.0	3.0		100		1-2% Py.	-	125	1.4	140	0.8	50	
	872	71.0	74.0	3.0		100		2-3% Py.	-	69	1.8	81	0.4	70	
	873	74.0	77.0	3.0		100		2-3% Py.	-	20	1.8	43	0.4	25	
	874	77.0	80.0	3.0		98	0.05	2-3% Py.	-	38	1.2	65	0.2	50	
	875	80.0	83.0	3.0		87	0.40	2-3% Py.	-	50	2.2	73	0.8	55	





EXPLORATION  
WESTERN CANADA

# DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S					
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r	%	A M T. L O S T		P b p p m	Z n p p m	A g p p m	A S p p m	S b p p m	A u p p b F A + A A
807 876	83.0	86.0	3.0		47	1.60	2-3% Py.	-	60	1.4	57	0.8	40
877	86.0	89.0	3.0		47	1.60	1-2% Py.	-	32	1.0	14	0.6	35
878	89.0	92.0	3.0		80	0.60	1-2% Py.	-	19	0.5	19	0.4	30
879	92.0	95.0	3.0		65	1.05	1-2% Py.	-	41	0.2	5	0.4	5
880	95.0	98.0	3.0		93	0.20	2-3% Py.	-	17	0.4	19	0.6	15
881	98.0	101.0	3.0		95	0.15	2-3% Py.	-	15	0.2	-10	0.2	15
882	101.0	104.0	3.0		100		2-3% Py.	-	140	1.6	10	4.8	5
883	104.0	107.0	3.0		97	0.10	2-3% Py.	-	112	0.9	10	2.0	10
884	107.0	110.0	3.0		100		2-3% Py.	-	144	1.2	17	1.4	15
885	110.0	113.0	3.0		100		2-3% Py.	-	167	1.1	45	2.2	20
886	113.0	116.0	3.0		100		2-3% Py. 1% Sph., Trace Gal.	-	470	8.5	120	52.0	70
887	116.0	119.0	3.0		100		2-3% Py.	-	65	0.9	53	4.0	10
888	119.0	122.0	3.0		100		2-3% Py.	-	46	1.4	32	9.2	10
889	122.0	125.0	3.0		100		2% Py.	-	28	1.1	27	6.2	15
890	125.0	128.0	3.0		100		2% Py.	-	24	0.5	30	2.2	5
891	128.0	131.0	3.0		100		2% Py.	-	32	0.7	53	3.4	15
892	131.0	134.0	3.0		98	0.05	2-3% Py.	-	470	1.2	55	6.0	25
893	134.0	137.0	3.0		100		2% Py.	-	35	0.7	46	1.4	30
894	137.0	140.0	3.0		100		2% Py.	-	145	1.5	63	13.0	25
895	140.0	143.0	3.0		100		2% Py.	-	170	3.0	73	38.0	25
896	143.0	146.0	3.0		98	0.05	2-3% Py.	-	480	4.4	94	44.0	50
897	146.0	148.48	2.48		100		2-3% Py.	-	42	1.3	14	4.8	25

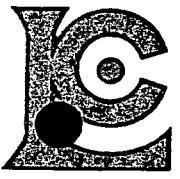
144.

APPENDIX 2  
CHEMEX CERTIFICATES

CMR

146.

# Chemex Labs Ltd.



Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
Telephone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD.  
700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

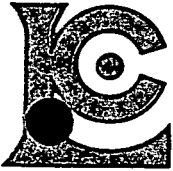
**RECEIVED**  
SEP 17 1984  
SELCO - BP EXPLORATION  
VANCOUVER, B.C.

CERT. # : A8415796-001-A  
INVOICE # : I8415796  
DATE : 17-SEP-84  
P.O. # : NONE  
BUCK CREEK 223

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA
DDF II 8584554803610	205	56	108	0.8	85	8.2	90
8584554803611	205	72	145	1.7	63	12.2	45
8584554803612	205	18	133	0.1	19	4.6	<5
8584554803613	205	78	900	0.7	690	2.0	175
8584554803614	205	119	1680	1.4	1100	20.0	275
8584554803615	205	22	100	0.1	30	6.6	20
8584554803616	205	10	120	0.1	24	3.3	20
8584554803617	205	4	180	0.1	77	3.9	<5
8584554803618	205	108	185	0.9	1300	27.0	385
8584554803619	205	5	130	0.1	38	2.4	15
8584554803620	205	48	167	0.3	36	3.9	20
8584554803621	205	10	210	0.1	23	2.2	10
8584554803622	205	130	785	0.8	65	9.8	30
8584554803623	205	120	620	0.7	67	6.3	30
8584554803624	205	75	1400	0.8	57	8.8	20
84-11 8584554803625	205	148	2380	1.2	73	6.9	50
8584554803626	205	110	2430	1.3	75	9.6	75
8584554803627	205	55	3100	1.1	29	5.0	30
8584554803628	205	86	2800	1.3	22	3.0	30
8584554803629	205	132	1600	0.7	16	5.8	50
8584554803630	205	135	4700	3.4	85	14.0	590
8584554803631	205	65	8100	4.9	46	11.0	670
8584554803632	205	57	5050	3.6	99	12.6	565
8584554803633	205	60	6250	3.0	210	26.0	530
8584554803634	205	130	7400	6.7	53	30.0	580
8584554803635	205	53	8500	2.7	90	5.6	630
8584554803636	205	65	8800	3.5	25	9.4	320
8584554803637	205	195	>10000	9.8	130	16.8	1570
8584554803638	205	85	4800	3.6	48	7.5	1880
8584554803639	205	195	6800	8.2	55	15.0	1540
8584554803640	205	83	2700	2.5	51	5.4	315
8584554803641	205	28	1480	0.9	23	8.4	165
8584554803642	205	35	1250	0.8	20	5.4	475
8584554803643	205	78	5600	1.6	73	7.4	225
8584554803644	205	265	>10000	5.8	36	8.0	600
14-11 8584554803645	205	300	8500	7.2	270	15.0	730
14-15 8584554803646	205	2	90	0.1	19	2.7	<5
8584554803647	205	6	61	0.1	10	3.0	<5
8584554803648	205	2	70	0.1	14	1.8	<5
STD-01	214	45	178	1.3	32	6.3	200



Certified by .....



147.  
**Chemex Labs Ltd.**

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 North Vancouver, B.C.  
 Canada V7J 2C1  
 Telephone: (604) 984-0221  
 Telex: 043-52597

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CERTIFICATE OF ANALYSIS

RECEIVED

SEP 17 1984

SELCO - BP EXPLORATION  
 VANCOUVER, B.C.

TO : SELCO MINING CORPORATION LTD

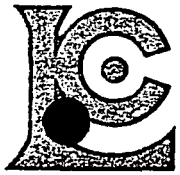
700 - 890 W. PENDER ST.  
 VANCOUVER, B.C.  
 V6C 1K5

CERT. # : A8415796-002-A  
 INVOICE # : I8415796  
 DATE : 17-SEP-84  
 P.O. # : NONE  
 BUCK CREEK 223

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA
8584554803649	205	175	1580	16.6	94	40.0	100
8584554803650	205	40	615	0.3	130	19.0	25
8584554803651	205	205	1380	33.0	45	54.0	25
3584554803652	205	117	4400	14.0	120	89.0	55
8584554803653	205	160	1750	4.9	190	33.0	45
8584554803654	205	28	225	2.2	150	17.4	70
8584554803655	205	14	155	0.8	45	9.0	10
8584554803656	205	11	130	0.5	45	11.4	25
8584554803657	205	5	86	0.1	50	2.0	<5
8584554803658	205	2	100	0.1	77	2.8	<5
8584554803659	205	6	120	0.1	33	4.2	5
8584554803660	205	13	205	0.1	22	6.0	10
8584554803661	205	6	120	0.1	130	5.5	<5
RE8584554803610	214	61	118	0.8	90	7.4	95
STD-01	214	52	183	1.2	36	6.8	225



Certified by ..... *[Signature]*



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212 Brooksbank Ave.  
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Telephone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : SELCO MINING CORPORATION LTD  
700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

**RECEIVED**  
SEP 25 1984  
SELCO-OP RESOURCES  
VANCOUVER, B.C.

CERT. # : A8415722-001-A  
INVOICE # : 18415722  
DATE : 24-SEP-84  
P.C. # : NONE  
BUCK CREEK

ATTN: M. REBAGLIATI CC: IAN TRINDER

Sample description	Prep code	Ag AA g/tonne	Au g/tonne				
8584554803551	207	1.7	0.50	--	--	--	--
8584554803564	207	48.8	1.90	--	--	--	--
8584554803565	207	35.0	5.90	--	--	--	--
8584554803566	207	33.0	5.10	--	--	--	--
8584554803567	207	12.5	1.90	--	--	--	--
8584554803568	207	16.5	3.30	--	--	--	--
8584554803569	207	20.0	2.70	--	--	--	--
8584554803570	207	148.0	8.80	--	--	--	--
8584554803594	207	2.8	0.60	--	--	--	--

.....  
Registered Assayer, Province of British Columbia





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CERTIFICATE OF ANALYSIS

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SELCO - BP EXPLORATION  
VANCOUVER, B.C.

TO : SELCO MINING CORPORATION LTD

700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

CERT. # : A8415537-001-A  
INVOICE # : I8415537  
DATE : 14-SEP-84  
P.C. # : NONE  
BUCK CREEK

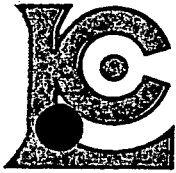
ATTN: MARK REBAGLIATI CC: IAN TRINDER

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA
8584554803550	205	220	4800	2.3	1250	24.0	220
8584554803551	205	77	3250	1.2	810	2.6	2350
8584554803552	205	330	6300	3.7	2500	1.2	650
8584554803553	205	146	3800	2.3	670	6.0	420
8584554803554	205	148	1350	1.6	230	4.0	275
8584554803555	205	72	218	0.1	36	1.8	70
8584554803556	205	61	157	0.4	53	6.4	60
8584554803557	205	320	1630	1.3	81	8.0	100
8584554803558	205	8	85	0.1	25	1.0	10
8584554803559	205	365	3300	5.6	680	19.0	185
8584554803560	205	370	9000	9.7	520	16.6	600
8584554803561	205	670	>10000	14.6	1600	33.0	680
8584554803562	205	710	7000	10.6	640	10.0	210
8584554803563	205	3600	>10000	18.6	4300	42.0	590
8584554803564	205	6700	>10000	46.0	>10000	190.0	2300
8584554803565	205	2600	>10000	42.0	1000	80.0	7180
8584554803566	205	1120	7700	32.0	175	17.0	2930
8584554803567	205	660	6150	12.0	500	21.0	1600
8584554803568	205	670	5400	15.5	230	41.0	2800
8584554803569	205	1430	>10000	19.6	1200	96.0	2050
8584554803570	205	5300	>10000	>100.0	2300	>1000.0	>10000
8584554803571	205	262	143	4.1	235	1.2	100
8584554803572	205	49	70	1.7	170	3.8	40
8584554803573	205	96	240	0.6	38	5.0	85
8584554803574	205	1120	2700	4.0	29	4.0	95
8584554803575	205	780	2850	2.5	15	2.0	310
8584554803576	205	500	1630	1.5	41	1.0	130
8584554803577	205	275	535	0.8	24	2.1	30
8584554803578	205	880	3500	3.9	25	5.8	100
8584554803579	205	425	3550	2.7	23	5.2	500
8584554803580	205	145	460	1.1	63	5.4	50
8584554803581	205	145	340	0.7	270	0.2	95
8584554803582	205	220	430	1.1	375	6.8	80
8584554803583	205	205	230	0.7	33	1.4	60
8584554803584	205	320	1450	2.2	63	14.2	105
8584554803585	205	360	600	1.2	32	4.4	90
8584554803586	205	160	180	0.9	92	16.0	450
8584554803587	205	210	420	1.0	69	31.0	55
8584554803588	205	70	210	0.5	32	3.0	100
STD-01	214	50	175	1.1	35	6.8	195

*Hart Butler*

Certified by .....





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TO : SELCO MINING CORPORATION LTD

SEP 17 1984

700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

SELCO - SP EXPLORATION  
VANCOUVER, B.C.

CERT. # : A8415537-002-A  
INVOICE # : I8415537  
DATE : 14-SEP-84  
P.C. # : NONE  
BUCK CREEK

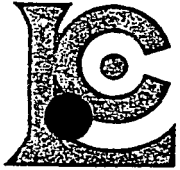
ATTN: MARK REBAGLIATI CC: IAN TRINDER

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au pob FA+AA
8584554803589	205	115	148	1.4	53	3.6	125
8584554803590	205	14	43	0.1	15	4.2	<5
8584554803591	205	17	47	2.4	71	10.0	400
8584554803592	205	11	48	1.3	50	7.2	50
8584554803593	205	55	105	1.9	59	10.0	700
8584554803594	205	40	73	1.4	79	8.8	1380
8584554803595	205	173	210	2.9	101	6.6	100
8584554803596	205	64	260	3.1	57	13.0	45
8584554803597	205	134	208	4.9	190	46.0	630
8584554803598	205	120	510	4.9	270	17.8	410
8584554803599	205	120	280	4.3	107	14.0	85
8584554803600	205	61	2300	3.8	270	31.0	180
8584554803601	205	115	1400	3.6	330	41.0	120
8584554803602	205	72	380	3.0	94	35.0	70
8584554803603	205	43	740	1.8	99	22.0	50
8584554803604	205	22	980	0.7	41	5.4	40
8584554803605	205	23	1600	0.7	32	2.6	55
8584554803606	205	37	1900	0.9	88	7.4	105
8584554803607	205	21	730	0.5	45	2.0	30
8584554803608	205	6	72	0.1	41	2.4	15
8584554803609	205	13	105	0.2	51	3.4	65
RE8584554803550	214	210	5100	2.4	1250	25.0	200
STD-01	214	51	170	1.3	36	7.0	190



Certified by *Hart Bickler*

M.R.



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CERTIFICATE OF ANALYSIS  
**RECEIVED**  
OCT 10 1984  
SELCO-BP RESOURCES  
VANCOUVER, B.C.

TO : SELCO MINING CORPORATION LTD  
700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

CERT. # : A8416288-001-A  
INVOICE # : I8416288  
DATE : 10-OCT-84  
P.O. # : NONE  
BUCK CREEK 223

ATTN: MARK REBAGLIATTI

Sample description	Prep code	Zn ppm	Ag ppm	AS ppm	So ppm	Au ppb FA+AA	
T 8584554803730	205	1100	3.2	50	3.5	35	--
4-12 8584554803731	205	5680	5.2	51	9.6	190	--
8584554803732	205	1780	2.8	94	5.2	65	--
8584554803733	205	1830	3.3	103	14.6	70	--
8584554803734	205	1000	2.3	110	4.4	45	--
8584554803735	205	1200	3.8	88	5.6	210	--
8584554803736	205	3200	4.5	130	8.0	100	--
8584554803737	205	1380	2.0	170	11.0	85	--
8584554803738	205	420	1.2	100	11.0	5	--
8584554803739	205	285	0.8	99	10.4	<5	--
8584554803740	205	175	0.5	71	5.6	<5	--
8584554803741	205	235	0.7	110	9.7	<5	--
8584554803742	205	1400	1.9	110	9.8	40	--
8584554803743	205	1830	2.5	120	15.6	45	--
8584554803744	205	225	1.3	83	14.2	50	--
8584554803745	205	525	1.4	120	5.2	30	--
8584554803746	205	193	1.6	370	13.4	120	--
8584554803747	205	450	2.3	190	14.0	200	--
8584554803748	205	218	2.4	83	19.0	40	--
8584554803749	205	160	3.6	53	15.2	75	--
8584554803750	205	112	2.4	51	16.0	40	--
8584554803751	205	110	2.3	51	15.0	50	--
8584554803752	205	238	2.8	250	14.4	175	--
8584554803753	205	1900	3.4	350	13.8	355	--
8584554803754	205	270	1.6	290	11.6	65	--
4-12 8584554803755	205	210	0.9	99	11.6	45	--
8584554803756	205	248	1.5	90	12.8	30	--
8584554803757	205	625	0.3	30	1.6	45	--
8584554803758	205	1200	1.0	120	3.6	40	--
8584554803759	205	620	0.5	43	2.8	20	--
8584554803760	205	262	0.3	63	2.0	30	--
8584554803761	205	78	0.5	38	2.4	30	--
8584554803762	205	205	1.1	90	3.6	50	--
8584554803763	205	113	1.0	46	2.6	30	--
8584554803764	205	35	0.5	55	3.8	30	--
8584554803765	205	73	0.7	69	6.6	40	--
8584554803766	205	41	0.8	53	3.8	530	--
8584554803767	205	292	1.6	81	4.0	40	--
8584554803768	205	45	0.4	43	2.4	35	--
STD-01	214	170	1.0	32	7.0	380	--



Certified by Hart Bichler





152.  
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 Telex: 043-52597

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**CERTIFICATE OF ANALYSIS**

**RECEIVED**

**OCT 10 1984**

SELCO-BP RESOURCES  
 VANCOUVER, B.C.

TO : SELCO MINING CORPORATION LTD

700 - 890 W. PENDER ST.  
 VANCOUVER, B.C.  
 V6C 1K5

ATTN: MARK REBAGLIATTI

CERT. # : A8416288-002-A  
 INVOICE # : I8416288  
 DATE : 10-OCT-84  
 P.O. # : NONE  
 BUCK CREEK 223

Sample description	Prep code	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA	
4-14 8584554803769	205	98	0.6	46	3.2	45	--
8584554803770	205	240	0.6	101	7.2	75	--
↓ 8584554803771	205	730	3.3	250	27.0	75	--
8584554803772	205	653	2.8	200	20.0	90	--
8584554803773	205	465	0.9	100	6.6	110	--
8584554803774	205	465	0.3	100	12.6	50	--
8584554803775	205	683	0.7	103	46.0	100	--
↑ 8584554803776	205	1650	0.3	71	2.8	50	--
8584554803777	205	1000	0.8	110	3.6	60	--
4-14 8584554803778	205	815	0.9	97	9.0	70	--
RE8584554803730	214	1130	3.4	53	3.6	50	--
STD-01	214	180	1.1	33	7.0	400	--

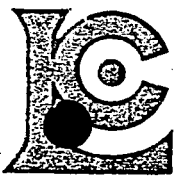
*Hart Buchler*

Certified by .....



CMR

153.



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TO : SELCO MINING CORPORATION LTD  
700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
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SELCO-EP RESOURCES  
VANCOUVER, B.C.

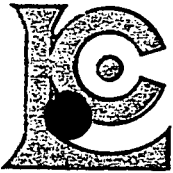
CERT. # : A8416113-001-A  
INVOICE # : I8416113  
DATE : 24-SEP-84  
P.C. # : NONE  
BUCK CREEK 223

ATTN: MARK REBAGLIATTI

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA
8584554803662	205	10	273	0.1	300	DELAYED	<5
8584554803663	205	2	102	0.1	120	DELAYED	<5
8584554803664	205	2	82	0.1	14	DELAYED	<5
8584554803665	205	3	66	0.1	200	DELAYED	<5
8584554803666	205	14	157	0.5	530	DELAYED	<5
8584554803667	205	105	550	1.5	700	DELAYED	<5
8584554803668	205	125	9200	5.8	330	DELAYED	125
8584554803669	205	15	568	1.5	35	DELAYED	10
8584554803670	205	8	810	0.2	71	DELAYED	<5
8584554803671	205	33	560	0.4	29	DELAYED	<5
8584554803672	205	50	1450	2.3	390	DELAYED	20
8584554803673	205	64	1000	0.9	59	DELAYED	<5
8584554803674	205	27	1100	0.5	46	DELAYED	<5
8584554803675	205	40	580	0.8	73	DELAYED	20
8584554803676	205	67	1100	3.8	77	DELAYED	35
8584554803677	205	10	107	3.2	85	DELAYED	35
8584554803678	205	13	143	0.6	85	DELAYED	<5
8584554803679	205	5	130	0.1	35	DELAYED	<5
8584554803680	205	6	66	0.2	38	DELAYED	<5
8584554803681	205	4	55	0.2	14	DELAYED	<5
8584554803682	205	6	35	0.2	22	DELAYED	10
8584554803683	205	5	34	0.1	14	DELAYED	<5
8584554803684	205	14	140	1.1	22	DELAYED	<5
8584554803685	205	8	38	0.1	22	DELAYED	<5
8584554803686	205	27	58	0.4	41	DELAYED	<5
8584554803687	205	7	22	0.2	19	DELAYED	<5
8584554803688	205	12	49	0.2	41	DELAYED	35
8584554803689	205	6	23	0.8	170	DELAYED	20
8584554803690	205	930	7200	5.8	45	DELAYED	820
8584554803691	205	220	155	6.7	36	DELAYED	135
8584554803692	205	65	235	1.2	75	DELAYED	50
8584554803693	205	1200	218	34.0	57	DELAYED	60
8584554803694	205	90	63	1.9	12	DELAYED	45
8584554803695	205	65	198	0.8	24	DELAYED	35
8584554803696	205	105	240	1.0	22	DELAYED	55
8584554803697	205	1330	5700	5.1	77	DELAYED	2000
8584554803698	205	60	158	1.0	97	DELAYED	85
8584554803699	205	46	140	0.4	43	DELAYED	15
8584554803700	205	530	650	2.1	24	DELAYED	75
STD-01	214	49	180	1.4	32	DELAYED	330



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CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD

700 - 890 W. PENDER ST.  
 VANCOUVER, B.C.  
 V6C 1K5

ATTN: MARK REBAGLIATTI

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SEP 25 1984

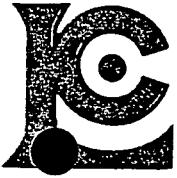
SELCO-BP RESOURCES  
 VANCOUVER, B.C.

CERT. # : A8416113-002-A  
 INVOICE # : I8416113  
 DATE : 24-SEP-84  
 P.O. # : NONE  
 BUCK CREEK 223

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA
8584554803701	205	298	1530	2.0	20	DELAYED	155
8584554803702	205	67	820	1.5	41	DELAYED	50
8584554803703	205	288	1800	1.6	250	DELAYED	950
8584554803704	205	46	125	1.8	77	DELAYED	155
8584554803705	205	--	580	1.6	170	DELAYED	25
8584554803706	205	--	1800	1.2	210	DELAYED	5
8584554803707	205	--	330	1.2	90	DELAYED	<5
8584554803708	205	--	300	1.1	110	DELAYED	<5
8584554803709	205	--	360	0.9	103	DELAYED	<5
8584554803710	205	--	130	0.5	43	DELAYED	<5
8584554803711	205	--	545	0.8	110	DELAYED	<5
8584554803712	205	--	395	0.6	92	DELAYED	<5
8584554803713	205	--	405	0.6	107	DELAYED	<5
8584554803714	205	--	1100	7.4	840	DELAYED	65
8584554803715	205	--	3700	11.0	910	DELAYED	400
8584554803716	205	--	515	2.8	240	DELAYED	20
8584554803717	205	--	3850	3.6	240	DELAYED	80
8584554803718	205	--	535	1.5	140	DELAYED	5
8584554803719	205	--	84	0.3	29	DELAYED	<5
8584554803720	205	--	520	2.0	240	DELAYED	10
8584554803721	205	--	1500	2.6	370	DELAYED	15
8584554803722	205	--	683	4.3	270	DELAYED	25
8584554803723	205	--	540	4.0	250	DELAYED	30
8584554803724	205	--	260	3.0	210	DELAYED	50
8584554803725	205	--	380	2.8	160	DELAYED	410
8584554803726	205	--	303	1.8	75	DELAYED	300
8584554803727	205	--	190	1.1	61	DELAYED	70
8584554803728	205	--	735	2.7	200	DELAYED	35
8584554803729	205	--	2130	5.1	150	DELAYED	30
RE8484554803662	214	8	230	0.1	330	DELAYED	<5
STD-01	214	48	175	0.9	36	DELAYED	350

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155.  
**Chemex Labs Ltd.**

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TO : SELCO MINING CORPORATION LTD

SEP 17 1984

700 - 890 W. PENDER ST.  
 VANCOUVER, B.C.  
 V6C 1K5

SELCO - BP EXPLORATION  
 VANCOUVER, B.C.

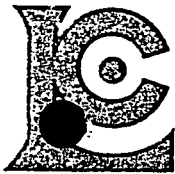
CERT. # : A8415537-002-A  
 INVOICE # : I8415537  
 DATE : 14-SEP-84  
 P.O. # : NONE  
 BUCK CREEK

ATTN: MARK REBAGLIATI CC: IAN TRINDER

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA
8584554803589	205	115	148	1.4	53	3.6	125
8584554803590	205	14	43	0.1	15	4.2	<5
8584554803591	205	17	47	2.4	71	10.0	400
8584554803592	205	11	48	1.3	50	7.2	50
8584554803593	205	55	105	1.9	59	10.0	700
8584554803594	205	40	73	1.4	79	8.8	1380
8584554803595	205	173	210	2.9	101	6.6	100
8584554803596	205	64	260	3.1	57	13.0	45
8584554803597	205	134	208	4.9	190	46.0	630
8584554803598	205	120	510	4.9	270	17.8	410
8584554803599	205	120	280	4.3	107	14.0	85
8584554803600	205	61	2300	3.8	270	31.0	180
8584554803601	205	115	1400	3.6	330	41.0	120
8584554803602	205	72	380	3.0	94	35.0	70
8584554803603	205	43	740	1.8	99	22.0	50
8584554803604	205	22	980	0.7	41	5.4	40
8584554803605	205	23	1600	0.7	32	2.6	55
8584554803606	205	37	1900	0.9	88	7.4	105
8584554803607	205	21	730	0.5	45	2.0	30
8584554803608	205	6	72	0.1	41	2.4	15
8584554803609	205	13	105	0.2	51	3.4	65
RE8584554803550	214	210	5100	2.4	1250	25.0	200
STD-01	214	51	170	1.3	36	7.0	190



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212 Brooksbank Ave.  
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Canada V7J 2C1  
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Telex: 043-52597

CERTIFICATE OF ANALYSIS

RECEIVED

OCT 10 1984

SELCO-BP RESOURCES  
VANCOUVER, B.C.

TO : SELCO MINING CORPORATION LTD

700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

CERT. # : A8416416-001-A  
INVOICE # : I8416416  
DATE : 10-OCT-84  
P.O. # : NONE  
BUCK CREEK

ATTN: MARK REBAGLIATI

Sample description	Prep code	Zn oom	Ag oom	AS opm	Sb opm	Au ppb FA+AA	
8584554803865	205	160	2.7	140	3.2	35	--
8584554803866	205	187	3.9	90	2.2	30	--
8584554803867	205	147	1.4	125	1.4	45	--
8584554803868	205	61	0.5	65	0.6	35	--
8584554803869	205	62	0.7	81	0.6	25	--
8534554803870	205	128	1.1	90	1.0	40	--
8584554803871	205	125	1.4	140	0.8	50	--
8584554803872	205	69	1.8	81	0.4	70	--
8584554803873	205	20	1.8	43	0.4	25	--
8584554803874	205	38	1.2	65	0.2	50	--
8584554803875	205	50	2.2	73	0.8	55	--
8584554803876	205	60	1.4	57	0.8	40	--
8584554803877	205	32	1.0	14	0.6	35	--
8584554803878	205	19	0.5	19	0.4	30	--
8584554803879	205	41	0.2	5	0.4	5	--
8584554803880	205	17	0.4	19	0.6	15	--
8584554803881	205	15	0.2	10	0.2	15	--
8584554803882	205	140	1.6	10	4.8	5	--
8584554803883	205	112	0.9	10	2.0	10	--
8584554803884	205	144	1.2	17	1.4	15	--
8584554803885	205	167	1.1	45	2.2	20	--
8584554803886	205	470	8.5	120	52.0	70	--
8584554803887	205	65	0.9	53	4.0	10	--
8584554803888	205	46	1.4	32	9.2	10	--
8584554803889	205	28	1.1	27	6.2	15	--
8584554803890	205	24	0.5	30	2.2	5	--
8584554803891	205	32	0.7	53	3.4	15	--
8584554803892	205	470	1.2	55	6.0	25	--
8584554803893	205	35	0.7	46	1.4	30	--
8584554803894	205	145	1.5	63	13.0	25	--
8584554803895	205	170	3.0	73	38.0	25	--
8584554803896	205	480	4.4	94	44.0	50	--
8584554803897	205	42	1.3	14	4.8	25	--
8584554803898	205	70	0.1	14	0.4	10	--
8584554803899	205	76	0.1	10	0.4	5	--
8584554803900	205	72	0.1	7	0.2	<5	--
8584554803901	205	71	0.1	12	0.2	<5	--
8584554803902	205	70	0.2	16	0.6	5	--
8584554803903	205	2000	4.3	90	5.0	5	--
STD-01	214	170	1.3	32	6.8	285	--

Hart Buchler

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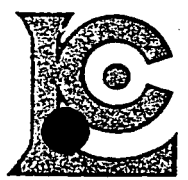
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# Chemex Labs Ltd.

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
Telephone: (604) 984-0221  
Telex: 043-52597

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## CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD  
700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

**RECEIVED**  
OCT 10 1984  
SELCO-SP RESOURCES  
VANCOUVER, B.C.

CERT. # : A8416416-002-A  
INVOICE # : I8416416  
DATE : 10-OCT-84  
P.O. # : NONE  
BUCK CREEK

ATTN: MARK REBAGLIATI

Sample description	Prep code	Zn ppm	Ag ppm	As ppm	Sb ppm	Au ppb FA+AA	
8584554803904	205	550	1.2	220	3.2	5	--
8584554803905	205	4100	4.5	1350	14.6	20	--
8584554803906	205	88	0.3	36	0.6	<5	--
8584554803907	205	311	1.1	155	2.6	10	--
8584554803908	205	200	1.3	350	3.2	5	--
8584554803909	205	204	1.0	77	2.0	<5	--
8584554803910	205	255	1.4	190	4.4	30	--
8584554803911	205	207	1.4	103	2.6	45	--
8584554803912	205	750	2.6	235	6.6	20	--
8584554803913	205	410	1.7	210	4.8	30	--
8584554803914	205	255	4.2	77	2.2	25	--
8584554803915	205	500	4.8	92	2.4	95	--
8584554803916	205	129	3.9	69	1.8	35	--
8584554803917	205	157	1.3	51	1.2	25	--
8584554803918	205	92	1.0	57	0.6	60	--
8584554803919	205	107	0.7	24	0.1	50	--
8584554803920	205	93	0.5	20	0.6	20	--
8584554803921	205	730	3.2	360	45.0	110	--
8584554803922	205	192	0.7	73	1.6	60	--
8584554803923	205	121	1.2	16	1.0	115	--
8584554803924	205	5000	3.7	67	2.0	75	--
8584554803925	205	>10000	7.6	200	2.3	150	--
8584554803926	205	940	2.3	83	2.0	50	--
8584554803927	205	730	10.0	200	4.0	185	--
8584554803928	205	5500	9.5	435	6.8	55	--
8584554803929	205	7300	31.0	450	5.6	990	--
8584554803930	205	1950	1.9	38	1.0	10	--
8584554803931	205	87	2.3	30	0.6	10	--
8584554803932	205	69	0.1	17	0.6	20	--
8584554803933	205	74	0.4	27	1.0	<5	--
8584554803934	205	180	1.1	420	4.8	30	--
8584554803935	205	152	1.0	260	2.8	20	--
8584554803936	205	140	1.0	65	0.2	60	--
8584554803937	205	280	0.8	75	1.0	70	--
8584554803938	205	380	0.9	101	2.0	20	--
8584554803939	205	166	0.6	43	1.8	15	--
8584554803940	205	220	0.2	45	1.2	<5	--
8584554803941	205	250	0.5	55	1.6	<5	--
8584554803942	205	140	1.6	101	1.4	20	--
STD-01	214	170	1.4	35	6.8	275	--

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*Handwritten note:*  
205  
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212 Brooksbank Ave.  
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CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD  
 700 - 890 W. PENDER ST.  
 VANCOUVER, B.C.  
 V6C 1K5

**RECEIVED**  
 OCT 10 1984  
 SELCO-BP RESOURCES  
 VANCOUVER, B.C.

CERT. # : A8416416-003-A  
 INVOICE # : I8416416  
 DATE : 10-OCT-84  
 P.O. # : NONE  
 BUCK CREEK

ATTN: MARK REBAGLIATI

Sample description	Prep code	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA	
8584554803943	205	147	0.9	67	1.3	15	--
8584554803944	205	40	0.1	41	1.0	<5	--
8584554803945	205	34	0.1	24	1.0	<5	--
8584554803946	205	56	1.4	33	1.8	5	--
8584554803947	205	131	0.5	103	2.0	<5	--
8584554804990	205	2150	4.0	470	18.0	80	--
8584554804991	205	1020	2.7	170	9.2	45	--
8584554804992	205	450	1.0	79	4.0	15	--
8584554804993	205	720	0.6	59	3.4	25	--
8584554804995	205	164	0.1	19	2.6	10	--
8584554804996	205	730	0.7	83	9.0	45	--
8584554804997	205	50	1.4	61	1.6	40	--
8584554804998	205	44	1.9	67	2.2	25	--
RE 8584554803865	214	161	2.7	125	3.4	30	--
STD-01	214	173	2.0	36	6.8	330	--

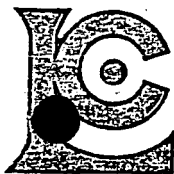
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 CEO P.?

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CERTIFICATE OF ANALYSIS

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OCT 09 1984

SELCO-BP RESOURCES  
VANCOUVER, B.C.

TO : SELCO MINING CORPORATION LTD  
700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

CERT. # : A8416322-001-A  
INVOICE # : 18416322  
DATE : 8-OCT-84  
P.O. # : NONE  
BUCK CREEK 223

ATTN: MARK REBAGLIATTI

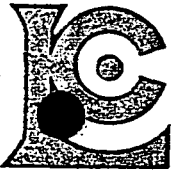
Sample description	Prep code	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA	
8584554803779	205	900	1.0	69	27.0	70	--
8584554803780	205	340	1.5	130	15.8	110	--
8584554803781	205	1700	1.4	53	16.4	160	--
8584554803782	205	1780	1.1	63	8.2	100	--
8584554803783	205	1680	1.1	340	11.8	135	--
8584554803784	205	1230	0.6	700	9.0	120	--
8584554803785	205	2250	1.8	920	28.0	200	--
8584554803786	205	1680	0.8	430	6.4	100	--
8584554803787	205	1080	1.0	510	14.0	245	--
8584554803788	205	1130	1.1	1300	10.2	200	--
8584554803789	205	1800	1.3	1300	10.0	180	--
8584554803790	205	1780	1.1	1200	12.2	235	--
8584554803791	205	1680	0.8	1100	6.4	180	--
8584554803792	205	3500	3.2	1400	13.0	205	--
8584554803793	205	5500	3.0	2900	45.0	400	--
8584554803794	205	2050	0.5	150	13.0	35	--
8584554803795	205	1900	1.2	90	11.4	20	--
8584554803796	205	1950	0.9	610	13.2	135	--
8584554803797	205	1580	0.4	1300	20.0	270	--
8584554803798	205	1200	0.7	110	10.4	60	--
8584554803799	205	1050	0.8	330	4.8	80	--
8584554803800	205	1700	0.6	630	6.4	95	--
8584554803801	205	940	0.7	160	8.0	140	--
8584554803802	205	55	0.1	12	0.2	<5	--
8584554803803	205	55	0.1	9	0.2	<5	--
8584554803804	205	63	0.1	4	0.1	<5	--
8584554803805	205	50	0.1	3	0.1	<5	--
8584554803806	205	38	0.1	3	0.2	<5	--
8584554803807	205	40	0.1	3	0.2	<5	--
8584554803808	205	40	0.1	3	0.1	<5	--
8584554803809	205	40	0.1	4	0.1	<5	--
8584554803810	205	55	0.1	19	0.3	<5	--
8584554803811	205	128	0.1	7	0.4	<5	--
8584554803812	205	35	0.1	19	0.3	<5	--
8584554803813	205	28	0.1	19	0.5	<5	--
8584554803814	205	33	0.1	3	0.3	<5	--
8584554803815	205	37	0.1	5	0.4	5	--
8584554803816	205	43	0.1	4	0.2	5	--
8584554803817	205	42	0.1	4	0.2	<5	--
STD-01	214	180	1.1	33	6.6	300	--

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**CERTIFICATE OF ANALYSIS**

**RECEIVED**  
 OCT 09 1984  
 SELCO-BP RESOURCES  
 VANCOUVER, B.C.

TO : SELCO MINING CORPORATION LTD  
 700 - 890 W. PENDER ST.  
 VANCOUVER, B.C.  
 V6C 1K5  
 ATTN: MARK REBAGLIATTI

CERT. # : A8416322-002-A  
 INVOICE # : I8416322  
 DATE : 8-CCT-84  
 P.O. # : NONE  
 BUCK CREEK 223

Sample description	Prep code	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA	
8584554803818	205	46	0.1	4	0.2	<5	--
8584554803819	205	55	0.1	3	0.8	<5	--
8584554803820	205	58	0.2	5	0.2	<5	--
8584554803821	205	368	0.1	5	0.1	<5	--
8584554803822	205	2000	0.3	24	0.4	<5	--
8584554803823	205	410	0.9	110	1.7	<5	--
8584554803824	205	165	0.3	79	1.0	<5	--
8584554803825	205	185	0.2	50	1.2	<5	--
8584554803826	205	145	0.1	32	0.6	<5	--
8584554803827	205	120	0.1	36	0.6	<5	--
8584554803828	205	105	0.1	36	0.7	<5	--
8584554803829	205	148	0.1	20	0.6	<5	--
8584554803830	205	143	0.1	24	0.4	<5	--
8584554803831	205	198	0.1	67	1.0	<5	--
8584554803832	205	100	0.2	32	0.6	<5	--
8584554803833	205	100	0.2	59	1.2	<10	--
8584554803834	205	80	0.3	32	2.6	<5	--
8584554803835	205	160	0.3	43	2.5	<5	--
8584554803836	205	178	0.4	50	2.6	<5	--
8584554803837	205	75	0.3	39	2.4	<5	--
8584554803838	205	65	0.1	17	0.2	<5	--
8584554803839	205	62	0.1	16	0.2	65	--
8584554803840	205	85	0.4	29	0.4	20	--
8584554803841	205	64	0.2	22	0.4	<5	--
8584554803842	205	65	0.2	7	0.2	<5	--
8584554803843	205	55	0.3	3	0.1	<5	--
8584554803844	205	54	0.2	3	0.1	<5	--
8584554803845	205	58	0.1	3	0.1	<5	--
8584554803846	205	63	0.2	3	0.1	<5	--
8584554803847	205	60	0.3	4	1.5	<5	--
8584554803848	205	60	0.3	4	0.2	<5	--
8584554803849	205	59	0.2	3	0.1	<5	--
8584554803850	205	110	1.4	65	0.4	55	--
8584554803851	205	300	3.6	250	7.6	100	--
8584554803852	205	2430	9.5	670	19.0	325	--
8584554803853	205	2200	15.2	400	5.4	250	--
8584554803854	205	230	2.9	200	1.4	110	--
8584554803855	205	345	5.3	280	1.9	90	--
8584554803856	205	315	2.1	110	1.2	25	--
STD-01	0	175	1.5	35	6.6	300	--



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## CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD

700 - 890 W. PENDER ST.  
VANCOUVER, B.C.  
V6C 1K5

ATTN: MARK REBAGLIATTI

RECEIVED

OCT 09 1984

SELCO-BP RESOURCES  
VANCOUVER, B.C.

CERT. # : A8416322-003-A  
INVOICE # : 18416322  
DATE : 8-OCT-84  
P.O. # : NONE  
BUCK CREEK 223

Sample description	Prep code	Zn ppm	Ag ppm	AS ppm	Sb ppm	Au ppb FA+AA	
8584554803857	205	275	2.1	240	4.2	65	--
8584554803858	205	85	3.0	170	1.8	50	--
8584554803859	205	90	1.9	130	2.0	45	--
8584554803860	205	70	1.2	220	2.0	45	--
8584554803861	205	95	0.6	240	1.9	55	--
8584554803862	205	80	0.6	73	1.2	<5	--
4-16 8584554803863	205	95	1.7	160	0.6	40	--
↑ 8584554803864	205	140	2.0	90	0.8	20	--
RE 8584554803779	205	910	1.0	81	24.0	60	--
STD-01	214	178	1.1	33	6.6	285	--

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