

LOG NO: 1026	RD.
ACTION:	
FILE NO: 87-673-16319	

1987 DRILLING REPORT  
ON THE  
PF OPTION

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

by  
D.P. Money, B.A.Sc.

16,319

Situated 2 km south of Crofton, B.C.  
in the Victoria Mining Division

48° 50' <sup>29"</sup> N, 123° <sup>39'</sup> ~~13'~~ W  
NTS 092B/13E

FILMED

*Owner/Operator:* Kidd Creek Mines Limited  
701 - 1281 West Georgia Street  
Vancouver, British Columbia  
V6E 3J7

August, 1987

Vancouver, B.C.

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## SUMMARY

This report presents the drill results of the May, 1987 three hole program on the PF Option. The target was volcanogenic polymetallic massive sulphides, such as the Sicker volcanic hosted deposits on nearby Mount Sicker and Westmin's Buttle Lake deposits (20 million tons averaging 2% Cu, 6% Zn, 2.5 oz/T Ag and 0.06 oz/T Au).

The project area is on the PF claim of a 16 claim (53 unit) block located on southeastern Vancouver Island, about 55 km north of Victoria. The claims were optioned from PF Exploration of Duncan by Kidd Creek Mines Limited on December 1, 1985.

The 1987 drill project followed fieldwork that was carried out by Kidd Creek Mines during the summer of 1986. An 8 km grid was cut over the target area in 1986 after preliminary geologic mapping and sampling. Surveys conducted over this grid outlined roughly coincident moderate to strong Cu soil anomalies and strong IP chargeability anomalies. A total of 1083 m in 3 holes with an average length of 361 m was drilled to test these anomalies.

The best mineralization intersected came from ten isolated samples which contained greater than 1000 ppm Cu over intervals of about 1 m and one weakly anomalous Au sample. Seven samples from PF87-2 contained between 1243 and 3718 ppm Cu. Three samples from PF87-3 contained between 1160 and 2311 ppm Cu and one contained 780 ppb Au near the top of the hole. The dominant lithologies present and hosting these weakly anomalous samples are mafic to andesitic flows and crystal to lapilli tuffs. Minor quantities of mafic sills, quartz - feldspar porphyry sills and dykes, and felsic tuffs were also encountered in the drill holes.

The lack of positive drilling results in conjunction with the logistical difficulties imposed by the semi-residential setting of the claims resulted in a recommendation that the property should be returned to the owners.

  
D.P. Money

## INTRODUCTION

### Location

The PF claims (123° 73' W, 48° 50' N; NTS 092B/13E) are located on southeastern Vancouver Island, approximately 2 km south of the village of Crofton (Figures 1 and 2). The three drill sites are on the PF claim and situated along the powerline near where it is crossed by Osborne Bay Road.

### Access

Access to the drill sites is by a short dirt road along the powerline. The dirt road is accessible from Osborne Bay Road about 1 km north of the junction with Herd Road. Powerline access was desirable to minimize surface damage in this populated area. Surface ownership of the claims is variable. Two of the drill holes are on municipal land; the third hole is on privately held land owned by Dr. Sutherland, who farms part of the area. Permission for access to drill was granted by the surface owners and by B.C. Hydro in Duncan.

### Terrain

Elevation in the area of drilling is in the order of 70 to 100 m above sea level. The topography consists of gentle and rolling hillocks. The area along the powerline has been cleared and now consists of scrub brush, dominantly broom. The powerline is bounded by second growth mixed forests of cedar, fir, alder and maple. A small stream, known as Richards Creek, crosses the powerline near Osbourne Bay Road and was used as the water source for drilling.

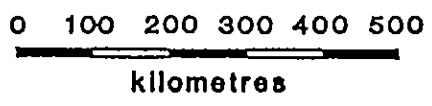
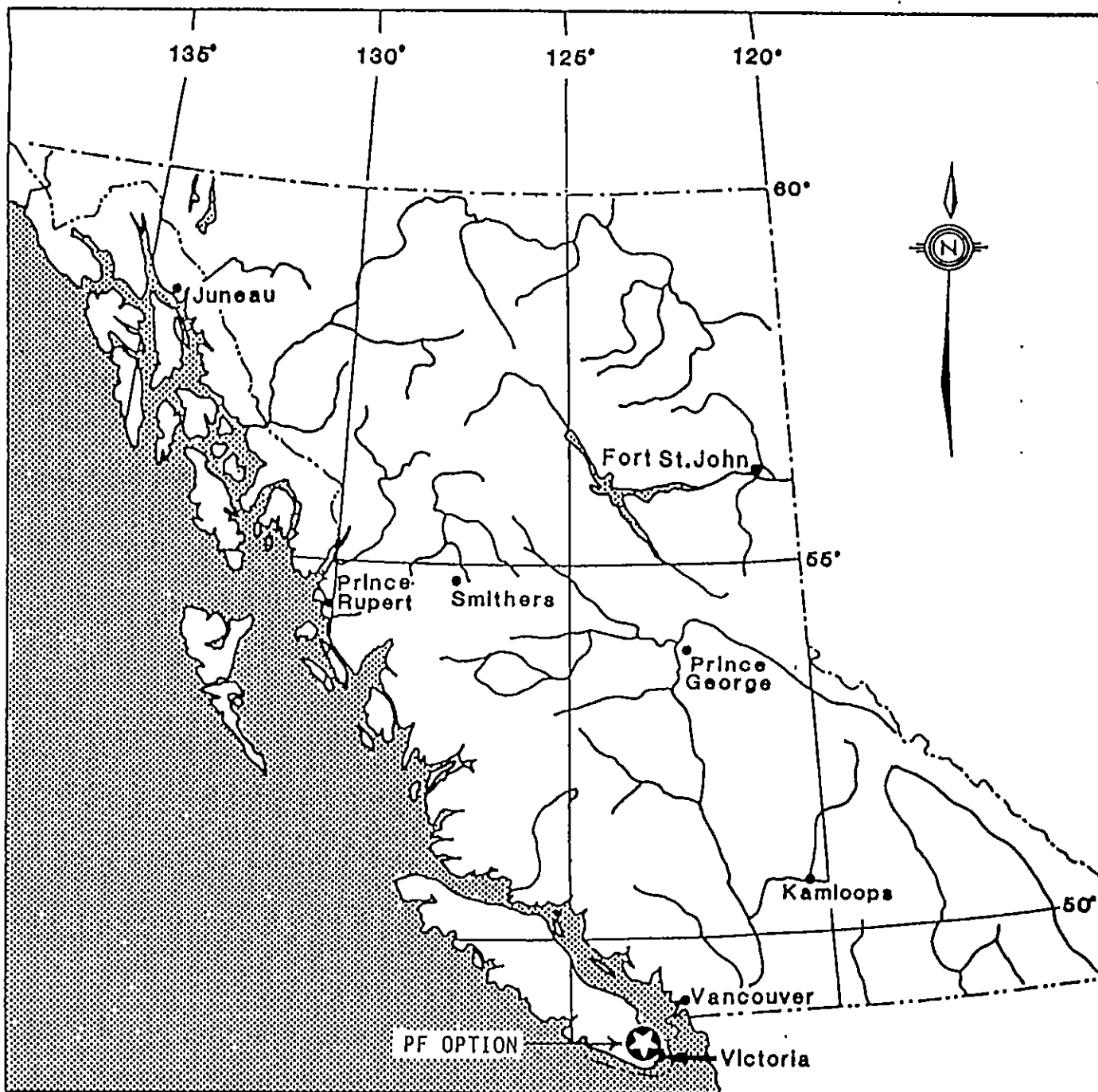
### Climate

The prevailing climate is mild with hot, dry summers and autumns, short winters and cool wet springs. Dry forest conditions during the summer, primarily in August, usually result in forest closures.

## PROPERTY HISTORY

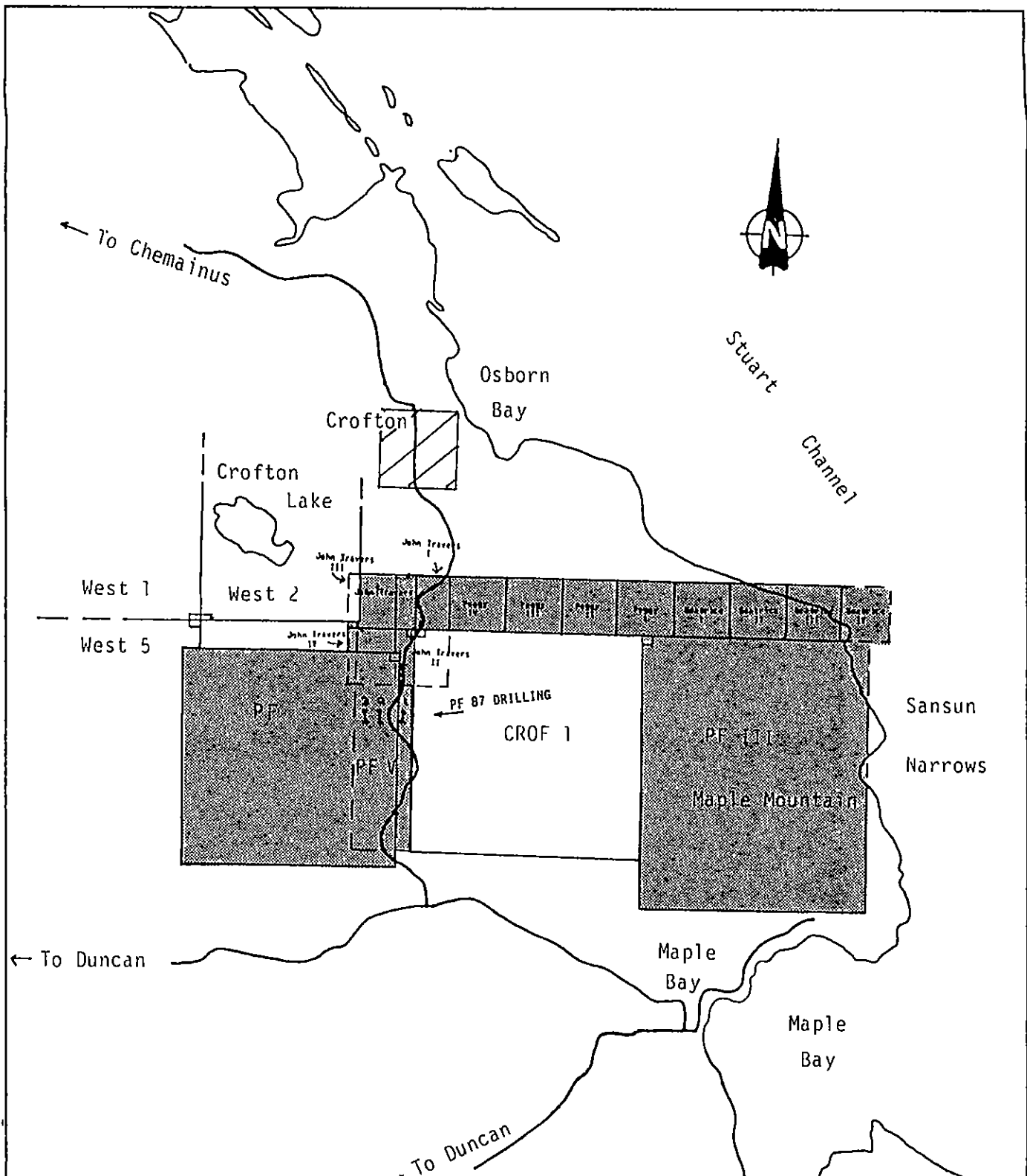
There are numerous old workings found on the PF claim group, but none occur in the area of this drill program. The old workings likely date from the early 1900's. Booth (1987) reported that according to local residents within the last twenty years there had been exploration activity by major companies over portions of the current claim group.


The PF-87 claim group consists of 16 claims, which comprise 53 units, owned P.F. Exploration of Duncan, B.C.. The claim group was optioned by Kidd Creek Mines Limited, (now wholly owned by Falconbridge Limited), on December 1, 1985. Table 1 and Figure 2 show the current status and configuration of the claims. In




<b>Falconbridge Limited</b>
LOCATION MAP PF OPTION
Victoria Mining Division British Columbia NTS: 92B/13

Figure 1



 PF 87 Group

 Major roads



FALCONBRIDGE LIMITED

CLAIMS LOCATION MAP  
Victoria Mining Division  
NTS 92B/13E

WORK BY	DRAWN BY	DATE
		March 1987

Scale 1:50,000

Figure: 2

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Staking Date</u>	<u>Expiry Date</u>
P.F.	1426	16	March 3/85	March 5/97
P.F. III	1505	20	March 30/85	April 29/97
P.F. V	1701	4	June 18/86	June 20/90
Peggy I	1497	1	March 30/85	April 29/97
Peggy II	1498	1	March 30/85	April 29/97
Peggy III	1499	1	March 30/85	April 29/97
Peggy IV	1500	1	March 30/85	April 29/97
John Travers	1493	1	March 31/85	April 30/97
John Travers I	1570	1	Sept 21/85	Oct 02/97
John Travers II	1571	1	Sept 21/85	Oct 02/97
John Travers III	1572	1	Sept 21/85	Oct 02/97
John Travers IV	1573	1	Sept 21/85	Oct 02/97
Beatrice I	1501	1	March 30/85	April 29/97
Beatrice II	1502	1	March 30/85	April 29/97
Beatrice III	1503	1	March 30/85	April 29/97
Beatrice IV	1504	1	March 30/85	April 29/97

All claims comprise the PF 87 Group

16 claims (53 units) are situated in the Victoria Mining Division.  
Expiry date pending approval of report for assessment documentation.

TABLE 1: Claim Status



1986, reconnaissance scale (1:5000) mapping was carried out over the entire property (see Booth, 1987) with detailed mapping (1:2500) on a small 8 km grid known as the "Powerline grid" with 100 m spaced lines. An IP/resistivity survey and soil sampling were also carried out. Results from these surveys indicated several modest drill targets expressed as chargeability and copper soil anomalies.

## REGIONAL GEOLOGY

Two geological domains comprise Vancouver Island; they are the Pacific and Insular Belts. The Pacific Belt outcrops on the southwestern rim of the island and is composed of a late Mesozoic sedimentary-volcanic melange and Eocene ocean floor basalts. The Insular Belt, which forms the main part of the island, hosts the study area and is composed of volcanic, sedimentary, metamorphic and plutonic rocks of early Paleozoic to early Tertiary age.

The oldest rocks in the Insular Belt are those of the Sicker Group (Figure 3). The Sicker Group, according to Muller (1980), is the remnant of a middle to late Paleozoic volcanic arc terrane, which was emplaced in the late Jurassic. The claims are underlain by rocks of the Myra Formation of the Sicker Group. The Myra Formation is a bimodal pyroclastic sequence with well bedded andesitic to rhyolitic tuff and breccia with minor interbeds of argillite (Muller, 1981). Within the Myra formation occurs a rhyolite porphyry (Tye Quartz Porphyry) which Muller (1980) described as occurring as discordant sills (sic) and flows. On the basis of Pb206/U238 dating the contemporaneous porphyry and volcanics are of Devonian or older age. Potassium-argon dating puts the age of the greenschist facies metamorphism at 180 +/- 8 million years.

The Myra Formation is known to host substantial volcanogenic massive sulphide deposits of the Kuroko-type. Examples of such deposits are Westmin Resources' Buttle Lake deposits (20 million tons averaging 2% Cu, 6% Zn, 2.5 oz/ton Ag and 0.06 oz/ton Au) and the Twin J deposits on Mount Sicker (about 1 million tons of a comparable grade to the Westmin deposits).

## PROPERTY GEOLOGY

The PF claim group is located towards the southern extremity of the Cowichan-Horne Lake uplift of the Sicker Group. Previous geologic mapping (Booth, 1987), at 1:2500 along the "Powerline grid" indicated that the dominant lithologies were mafic crystal to lapilli tuffs and mafic flows with minor mafic and quartz porphyry sills and dykes and felsic tuffs.

The volcanic and volcanoclastic rocks on the property are dominantly mafic to andesitic in composition. The flows contain chlorite, after hornblende, and sausseritized feldspar crystals. The tuffs range from ash to block, with feldspar crystal lapilli

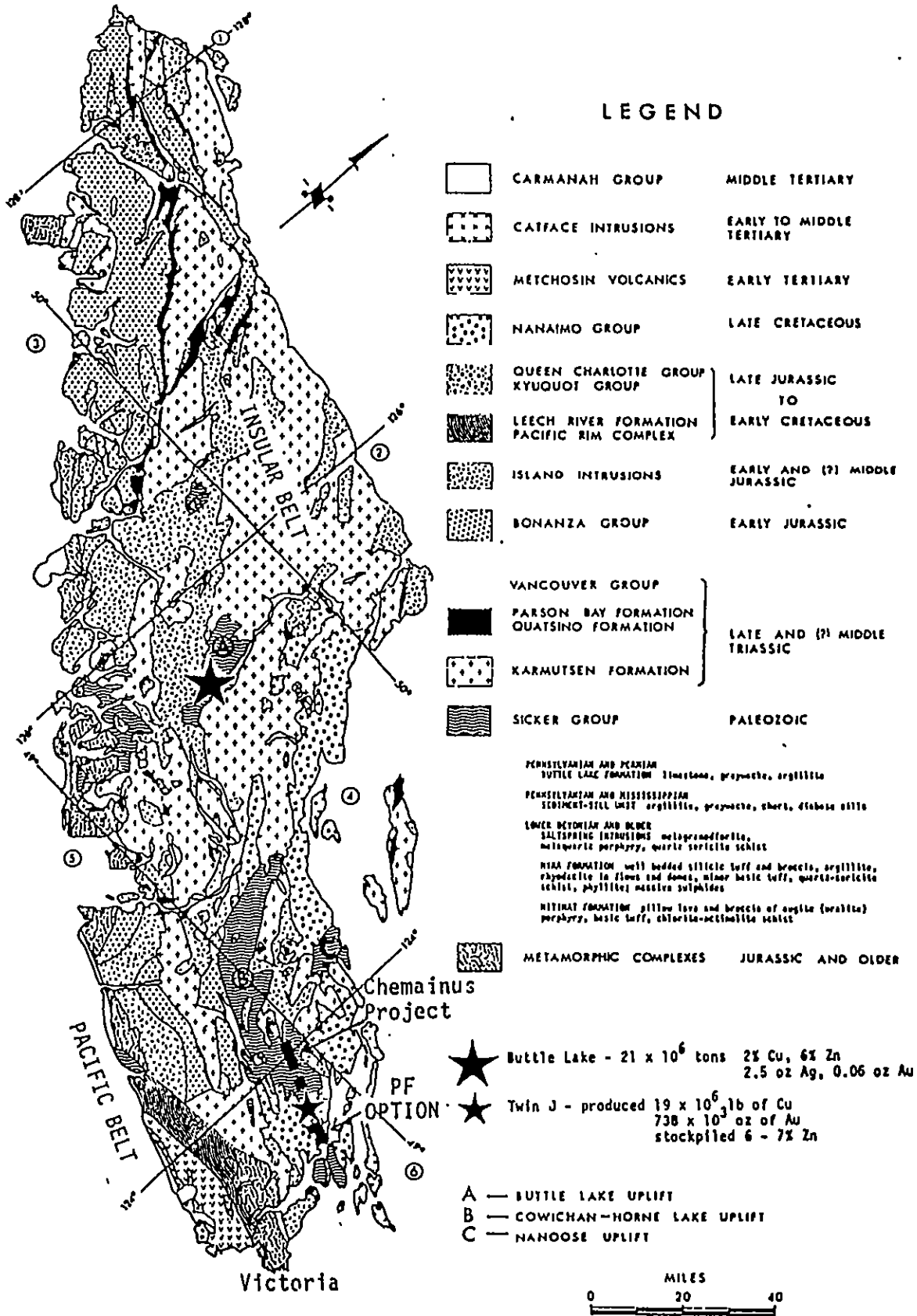


FIGURE 3  
 REGIONAL GEOLOGY MAP  
 (modified after Muller, 1980)

tuffs occurring the most frequently. The felsic crystal tuffs contain quartz eyes, which locally are lapilli sized (> 64mm), and feldspar crystals. The felsic tuffs are usually sericitic, and schistose. The quartz - feldspar porphyry dykes and sills are massive, not schistose, and contain varying quantities and grain sizes of quartz and feldspar phenocrysts. The mafic sill is fine grained and weakly magnetic, this in conjunction with the high TiO2 content suggests it contains fine grained ilmenite.

The tuffs and flows strike roughly at 205 degrees azimuth and the dip of beds and the foliation is near vertical. Dykes and sills do not exhibit cross-cutting relationships and likely intruded along planes of weakness developed along the foliation. Chilled margins to sills have been occasionally noted. No major faults were observed.

The rocks have been subjected to low-grade greenschist metamorphism resulting in chloritization of mafic rocks and sericitization of felsic rocks. Lapilli and blocks in tuffs have also been selectively replaced by epidote.

Sulphides occur throughout the property in two modes: quartz vein hosted and as disseminated sulphide rich zones. Booth (1987) reported that on the "Powerline Grid" a large, 60 cm, pyritic quartz vein occurs in the quartz - feldspar porphyry. Booth also reported that at the junction of Osborne Bay Road and the powerline there is a mafic volcanic with up to 7 % stringer and disseminated pyrite in chloritic zones. Analyses of the pyritic mafic volcanic returned 0.07 % and 0.09 % Cu and nil Zn and Pb. Minor chalcopyrite stringers have been observed in association with zones of strong pyrite stringers and dissemination at two localities, along Richards Creek near the powerline and in a roadcut of the residential area along Mountain View.

**OBJECTIVES OF DRILL PROGRAM**

The drill program was designed to test the IP anomalies associated with locally coincident Cu soil anomalies. Hendrickson (1987) estimated on the basis of the chargeability of the underlying lithologies in the study area that the background sulphide level was 3 to 5 %. The chargeability data also indicated that the actual volume of rock containing more than 10 % sulphides observed in the area of line 3+00W at 1+50S is probably greater at depth than indicated at surface.

**DRILLING**

**Introduction**

The drilling was conducted from May 5 to May 17, 1987. A total of 1083 m of NQ sized core was drilled in three holes. The drilling contractor for the project was Burwash Enterprises

Limited of Cobble Hill, B.C., who used two Longyear Super 38 diamond drills, supported by a D-7 Caterpillar tractor for site preparation.

The location of the drill holes resulted in unusual logistical demands due to nearby residential dwellings. On two holes drilled on municipal land, local noise by-laws were adhered to (drilling was restricted to 7 am to 10 pm), particularly on the holiday weekend of May 9 to 11. Special muffling modifications were made to the drills to minimize engine noise. The moderate volume of traffic on Osborne Bay Road also slowed down the drill moves on and off the property. A further consequence was the need for security guards during the crew changes and during night shut-down. Water from Richards Creek required a permit from the Ministry of the Environment in Nanaimo; this took five weeks to secure. Additionally, both Federal Fisheries and Provincial Fish and Wildlife examined the drill sites and the water diversion points on Richards Creek. They advised that settling ponds be constructed and that no silts and contaminants were to be released into the creek, which is a local water source for drinking and irrigation.

The drill holes are plotted on Figure 4 at 1:5000 and are shown in sections (Figures 5, 6 and 7) at a scale of 1:1000. Individual footage runs of core were converted to metric depth, photographed, (four boxes to a frame and then one photo per quadrant), RQDs (Rock Quality Designation) were determined and then the core was logged. Selected intervals with sulphide mineralization were split for analysis and representative lithological samples were collected, on average every 10 to 15 m. The core was stored in metal core racks at the facility on 3037 River Road, leased from Mr. W. Lee.

Bondar-Clegg of Vancouver analysed the split core for Cu, Pb, Zn, Ag, Cd, Co, Mn, Fe, Ni, As, and Mo using DCP analysis after a aqua regia dissolution, for Ba using XRF analysis and for Au using fire assay. All split core samples were prepared using standard assay preparation techniques.

X-Ray Assay Labs of Don Mills, Ontario analysed the litho-geochemical samples. Analyses conducted included major oxides, and trace elements including Cu, Zn and Ba. Selected samples were also analysed for rare earth element contents to aid in geologic interpretation of the lithologic units present.

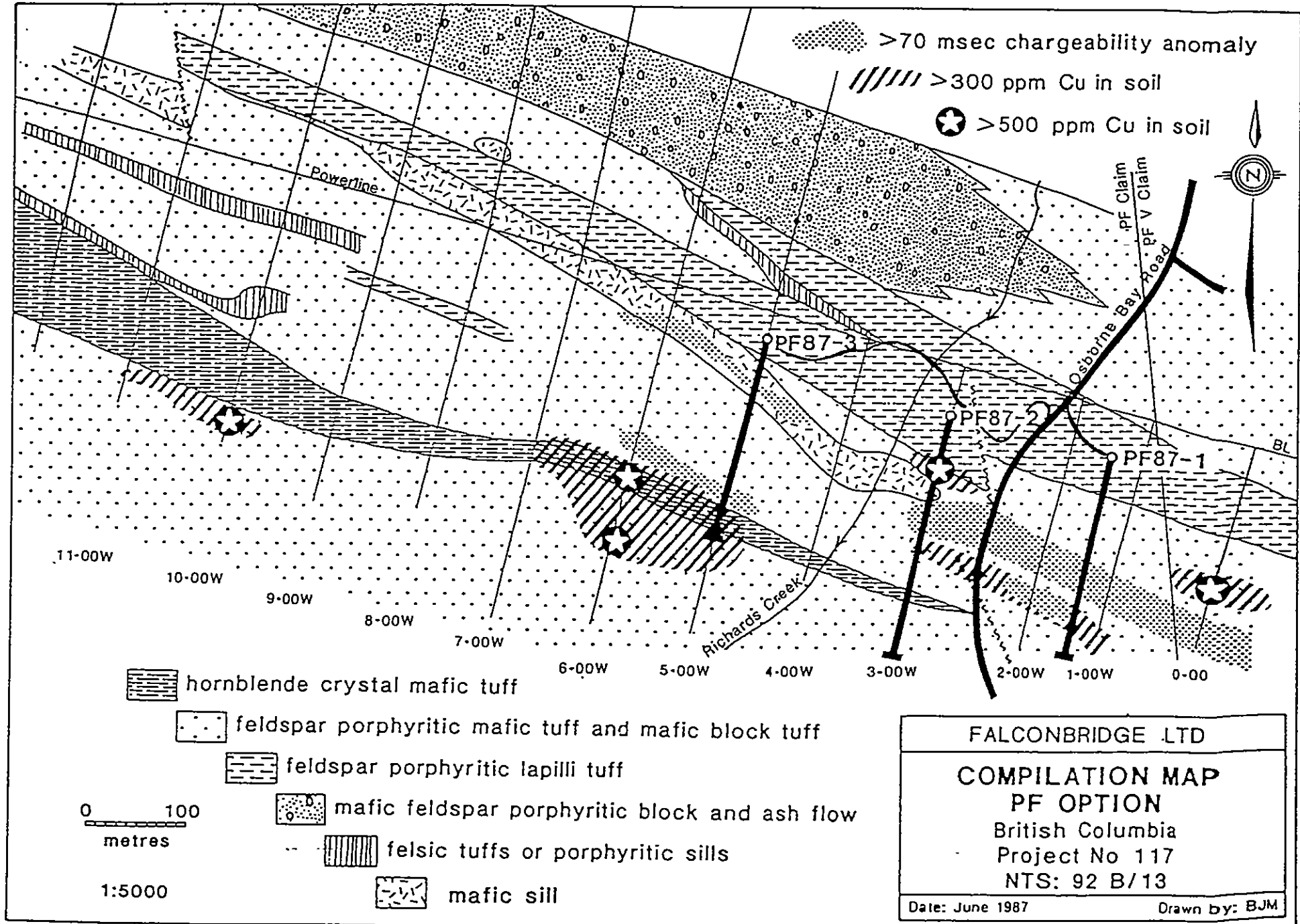
The drill logs together with analytical results are listed in Appendix A. Complete analytical results are listed in Appendix B.

## Drill Results

### Drill Hole PF87-1

PF87-1 was collared 30 m west of line 1+00 W at 0+45 S and

FIGURE 4



was drilled to the south to intersect a 60 to 70 msec chargeability and coincident low resistivity anomaly. This anomaly appears to represent the surface trace of a section of mafic and intermediate tuffs which locally host up to 7 % pyrite and trace chalcopryrite. The extension of the pyritic mafic outcrop along Osborne Bay Road cut was not encountered in the hole and it may have pinched out or have been faulted off.

The results of drill hole PF87-1 are shown on section in Figure 5. The upper 40 m of the hole encountered a succession of thin beds of felsic and intermediate ash to lapilli tuffs, which show background levels in base or precious metal contents. From about 40 m to 93 m mafic and intermediate dominantly lapilli tuffs, are present, with slightly elevated Cu values, (386 ppm over 3.1 m from 83.5 to 86.6 m). The Cu is associated with chlorite - calcite alteration zones hosting on average 5 % pyrite and trace chalcopryrite. From 93 m to 108 m there are felsic tuffs with minor intermediate interbeds. From 108 m to 137 m there is a mafic lapilli tuff with on average 2 % pyrite and local chlorite - calcite alteration with up to 15 % pyrite over 60 cm. These tuffs contain on average approximately 300 ppm Cu. From 137 m to 196 m there is an andesitic crystal tuff with local mineralized quartz veins (ie. 1794 ppm Cu from 154.5 to 154.7 m) and a quartz feldspar porphyry dyke from 186 to 195 m. From 196 m to 230 m there is the mafic sill, which is chemically quite distinct and was mapped in 1986 as terminating further to the west. The sill has both contacts at minor faults and a fault zone from 218 to 225 m. From 230 m to 348 m, (the end of the hole), there is a succession of block tuffs, with a downhole transition of QFP to epidotized blocks, the matrix of the tuff is andesitic in composition. This series of block tuffs is cut by quartz feldspar porphyry dykes or sills, which occur over the following intervals: 257 to 260 m, 281 to 288 m, 305 to 327 m, and 341 to 348 m. Up to 7 % pyrite with trace chalcopryrite is present in the block tuff and the best intersection is 869 ppm Cu over 1.0 m from 294.4 to 295.4 m.

#### Drill Hole PF87-2

PF87-2 was collared on line 3+00 W at 0+50 S and was drilled to the south to test a Cu soil anomaly and a zone of 60 to 70 msec chargeability coincident with a resistivity low. The anomalies correspond to the up dip projection of sulphide bearing lithologies with up to 10 % pyrite and local trace chalcopryrite.

The results of drill hole PF87-2 are shown on section in Figure 6. From 6 m to 72 m the hole intersected mafic feldspar crystal tuffs with up to 10 % pyrite and trace chalcopryrite locally, (up to 3 % chalcopryrite over 10 cm). The sulphides are disseminated, fracture controlled and associated with clots of chlorite - calcite alteration. Cu averages approximately 300 to 400 ppm throughout the interval with values in excess of 1000 ppm being isolated in areas of intense chlorite - calcite alteration. The best intersection was 3718 ppm Cu over 1 m from 50.0 to 51.0

m. From 72 m to 157 m there is a succession of thin felsic and mafic tuff beds, both crystal and lapilli bearing, with the same mode of sulphide occurrence as the overlying mafic tuff. From 157 m to 383 m there is a succession of mafic and intermediate tuffs with minor sedimentary and volcanic flow components. This interval also includes quartz feldspar porphyry dykes in the following intervals: 157 to 162 m, 166 to 173 m, 253 to 261 m, and 272 to 274 m. There is also a thin felsic crystal tuff bed from 350 to 354 m. Base metals occur in this interval as throughout the previous zones higher in the hole, however in this section (157 to 383 m) the average Cu of split samples is about 500 ppm, with only one sample exceeding 1000 ppm, whereas six samples contained more than 1000 ppm Cu in the first 157 m.

### Drill Hole PF87-3

PF87-3 was collared on line 5+00 W at 0+30 S and was drilled southward to test the lithologies underlying a IP chargeability anomaly, a resistivity low and soils with elevated Cu contents.

The results of drill hole PF87-3 are shown on section in Figure 8. From 3 m to 32 m there is an intermediate tuff with 5 to 7 % pyrite. This tuff has on average 200 ppm Cu and has locally weakly to moderately anomalous Au contents, (averaging 151 ppb over 9.1 m from 16.2 to 25.3 m including 780 ppb over 1.0 m from 19.9 to 20.9 m). The auriferous tuff is visibly indistinguishable from the barren tuff in this unit and elsewhere. From 32 m to 49 m there is a mafic sill, which is chemically the same as that encountered in PF87-1. From 49 m to 78 m there is a mafic ash tuff with up to 10 % pyrite and trace chalcopyrite, the sulphides (pyrite and chalcopyrite) are concentrated in zones of chlorite - calcite alteration which contain up to 486 ppm Cu over 1 m, from 66.3 to 67.3 m, and average about 200 ppm Cu. From 78 m to 139 m there is a epidote spotted mafic flow with up to 20 % pyrite in the alteration zones and Cu averages of approximately 300 ppm in the more sulphide rich sections (exceeding 3 % sulphides). From 139 m to 153 m there is a felsic crystal tuff and from 153 m to 154 m there is an andesitic lapilli tuff. From 154 m to 199 m there is an epidote spotted feldspar and chlorite, after hornblende, porphyritic andesitic flow with elevated Cu, averaging about 400 ppm and three samples above 1000 ppm, the best being 2311 ppm over 1.0 m from 195.0 to 196.0 m. From 199 m to 212 m there is an alternating series of thin quartz feldspar porphyry sills and intermediate lapilli tuffs. From 212 m to 243 m there is an identical andesitic flow to that from 154 m to 199 m with Cu contents from 172 to 732 ppm and an average Cu content of 434 ppm. From 243 m to 247 m there is a brecciated rhyolite with 1 % fracture filling pyrite and 614 ppm Cu over 3.7 m from 243.3 to 246.8 m. This rhyolite may be a fractionated quartz - feldspar porphyry sill. From 247 m to 255 m there is an intermediate crystal lapilli tuff. From 255 m to 273 m there is a quartz feldspar porphyry sill. From 273 m to 321 m there is a mafic flow with local chlorite - calcite alteration and on average

about 200 ppm Cu. This is underlain by a thin 2.6 m quartz-feldspar porphyry sill which caps an epidote spotted andesitic flow with rare sulphides and the best interval is 1.0 m from 339.0 to 340.0 m, which contains 713 ppm Cu.

### Geochemistry

Geochemical (assay) sampling was conducted during core logging. A total of 318 samples were split and analysed for Cu, Pb, Zn, Au, Ag, Ba, Ni, Co, Cd, Mo, As and Fe from the three holes. These analyses indicated that the mafic and andesitic rocks contained anomalous levels of Cu (Mean = 364.6) and Mo (Mean = 12.9). These levels are about four times average crustal abundance for Cu and about thirteen times average crustal abundance for Mo for these basic volcanics and volcanoclastics. There are no direct correlations between any of the metals analysed; however, Cu and Mo show broader scale correlation (ie. both elevated over 5 to 10 m intersections). The elevated Cu and Mo are likely related to the local major felsic intrusions.

Lithochemical sampling was carried out during the core logging. A total of 75 samples were collected from the three holes and submitted for whole rock analysis, (major oxides and selected trace elements); 31 of these samples also were analysed for rare earth elements. The samples were analysed by X-Ray Assay Laboratories of Don Mills, Ontario using X-ray fluorescence spectrometry for major and minor oxides and trace and rare earth element abundances were determined by neutron activation and direct current plasma. The sample locations are plotted on the drill sections (Figures 5, 6 and 7). Computer plots were generated using in-house Falconbridge Ltd. software and a PDP-11 Digital computer. These plots are given in Appendix C.

Alkali-silica variation diagrams ( $Na_2O+K_2O$  vs.  $SiO_2$ ) were used to distinguish between rocks belonging to alkaline and subalkaline fields using the boundary of Irvine and Baragar (1971). The mafic tuffs plotted on the boundary with a slight alkaline trend. The mafic flows and sills are subalkaline. The intermediate tuffs and flows plot on the boundary with a weak subalkaline trend. The felsic tuffs and flow are subalkaline. The quartz - feldspar porphyry intrusions plot as subalkaline in approximately the same location as the felsic tuffs and in the same location as type Saltspring Intrusive (Booth, 1987) and another QFP dyke system about 3 km to the northwest (Money, 1987) from the West claims.

Miyashiro (1974) has proposed a boundary using  $SiO_2$  vs.  $FeO/MgO$  plots to separate volcanic rocks into calc-alkaline and tholeiitic suites. The mafic tuffs plot close to the boundary and have a slight tholeiitic trend. Mafic flows and sills are tholeiitic and the intermediate tuffs and flows plot on the boundary with a very weak calc-alkaline trend. The felsic tuffs, felsic flow and quartz - feldspar intrusions are clearly calc-alkaline.



The rocks were also classified into tholeiitic and calc-alkaline suites using the AFM diagram and the field boundary proposed by Irvine and Baragar (1971). The mafic tuffs plotted on or near the boundary with a moderate calc-alkaline trend. The mafic sills plotted as tholeiitic and the mafic flows plotted near the boundary with a very weak calc-alkaline trend. The intermediate tuffs and flows plotted in the same location of the mafic tuffs. The felsic tuffs, felsic flow and quartz - feldspar porphyry plotted with a strong calc-alkaline trend.

A examination of a Zr vs. SiO<sub>2</sub> plot for all lithogeochemical samples collected from the drill holes shows a bimodal distribution with the largest group ranging from basaltic to andesitic and with another peak at rhyolitic composition; no dacites are indicated. This plot (Figure C 29) also serves to show the chemically distinct nature of the mafic sill. The mafic sill contains low K<sub>2</sub>O (about 0.06 %), low Na<sub>2</sub>O, high P<sub>2</sub>O<sub>5</sub> (about 0.35 %), high TiO<sub>2</sub> (> 2 %) and high Zr. This distinctive chemistry served to indentify the unit along with its weak magnetism as the unit is not visually distinctive ressembling a mafic flow in appearance. The Zr vs. SiO<sub>2</sub> trend observed is standard for a volcanic suite and was also observed on the adjacent West claims (Money, 1987).

The rocks in the area have been subjected to alkali metasomatism. Plots of the data on the Igneous Spectrum (Hughes, 1972), (Na<sub>2</sub>O+K<sub>2</sub>O vs. 100xK<sub>2</sub>O/(K<sub>2</sub>O+Na<sub>2</sub>O)), indicate that weak to moderate spilitization has occurred in these rocks. While some samples plot outside of the keratophyric and spilitic fields study of alteration indices indicated that no significant hydrothermal alteration (of the type associated with Kuroko or Abitibi type massive sulphides) is present. The mafic sill is not altered according to this plot.

The rare earth element plots, (Chondrite normalized), show low total abundances. The rare earth elements of the quartz - feldspar porphyry indicate that it is primitive, AB20376 appears to be highly fractionated. The volcanics and volcaniclastics show similar trends. The mafic sill has a very distinctive rare earth element trend and as with other chemical data indicates that it is unrelated to the Myra Formation volcanics.

The Myra Formation volcanics and volcaniclastics show a weak calc-alkaline trend and have been spilitized. The mafic sill is intruded post spilitization and is tholeiitic. The quartz - feldspar porphyry is keratophyric and shows a strong calc-alkaline trend.

## REFERENCES

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STATEMENT OF EXPENDITURES

CLAIMS: PF87 GROUP: PF, PF III, PF V, PEGGY I to IV, JOHN TRAVERS, BEATRICE I to IV

MINING DIVISION: Victoria

NTS: 092B/13E

PERIOD OF WORK: May 5, 1987 to May 24, 1987

COSTS:

1. Personnel

D.Money, geologist 20 days @ \$100.00/day	\$2000.00	
J.Pattison, geologist 7 days @ \$120.00/day	\$840.00	
S.Enns, geologist 4 days @ \$205.00/day	\$820.00	
T.Cowans, technician 20 days @ \$80.00/day	\$1600.00	
	<u>\$5260.00</u>	\$5260.00

2. Vehicle Costs

GMC 4x4 pickup 25 days @ \$30.00/day		\$750.00
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3. Room and Board

51 man-days @ \$35.00/day		\$1785.00
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4. Diamond Drilling Costs

Burwash Enterprises Ltd., Cobble Hill, B.C.	\$61839.78	
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J.B. Whittaker: use of D-7 Caterpillar Tractor	\$1582.50	
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5. Analytical Costs

a. Base and Precious Metals

Bondar-Clegg and Company Ltd., Vancouver, B.C.  
Cu, Pb, Zn, Ag, Cd, Co, Mn, Fe, Ni, As, Mo, Au, Ba

318 samples @ \$20.00/sample \$6360.00

b. Whole Rock - W.R.A. and R.E.E.

X-Ray Assay Laboratories, Don Mills, Ont.

Whole rock :

44 samples @ \$19.25/sample \$847.00

Whole rock and rare earth :

6 samples @ \$42.00/sample \$252.00

25 samples @ \$50.00/sample \$1250.00

\$8509.00

\$8509.00

6. Report Preparation

\$750.00

TOTAL: \$80676.28

\$70,500.00 to be applied as follows:

9 years to John Travers

10 years to John Travers I to IV

7 years to PF

7 years to PF III

7 years to Peggy I to IV

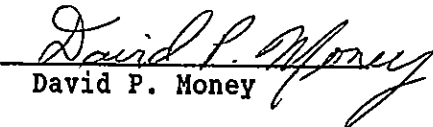
7 years to Beatrice I to IV

STATEMENT OF QUALIFICATIONS

I, David P. Money, an employee of Falconbridge Limited, with offices at 701 - 1281 West Georgia Street, Vancouver, British Columbia, do hereby declare that:

1. I am a graduate of the University of Toronto, Toronto, Ontario (1987) with a B.A.Sc. degree in Geological Engineering, Mineral Exploration Option.
2. For the past six years I have been actively involved in mineral exploration.
3. I am an Associate Member of the Geological Association of Canada.

Dated at Vancouver, B.C., this 15th day of September, 1987.

  
David P. Money

PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGHOLE No: Page Number  
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Hole Location: 1+30 W 0+45 S

NTS: 092/B13 UTM: 5408300N 452950E  
Azimuth: 202 Elevation: 38 m  
Dip: -55 Length: 347.8 mStarted: May 5, 1987  
Completed: May 13, 1987Claim No. PF  
Section No.: 1+30 West, "Powerline Grid"Logged By: D.P. Monay  
Drilling Co.: Burwash Enterprises  
Assayed By: Bondar-Clegg and XRAL

Core Size: HQ

Purpose: To test I.P. chargeability anomalies

## DIP TESTS

Length	Azi- muth	Dip	Length	Azi- muth	Dip
124.10	203.0	-56.0	264.30	205.0	-56.0
192.60	202.0	-56.0	325.00	211.0	-56.0

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.0	OVERBURDEN AND CASING										
3.0	3.7	CHLORITIC INTERMEDIATE TUFF Approximately 1 to 3 % disseminated pyrite occurs as cubes. There are Fe oxides on core fractures, and there also is minor some rust (goethite ?) on quartz vein. The core is oxidized to a depth of 3.0 m. Quartz grains constitute approximately 2 to 3 % of the rock. Quartz veins are milky white and 3 to 5 mm wide. Minor chlorite veins show no apparent correlation to pyrite concentrations. There are minor epidote grains.										
3.7	8.9	SILICIFIED FELSIC CRYSTAL ASH TUFF This is a very siliceous unit, which is rhyolitic as compared to upper rhyo-dacitic to dacitic unit. There are approximately 5 % round to stretched ellipsoidal quartz crystals. Disseminated pyrite comprises approximately 0.5 to 1% of the rock and minor small pyrite stringers occur. Epidote occurs after feldspar crystals and as veinlets. Fracture controlled (?) chloritization occurs from 4.60 to 4.80 with 3 to 4 % disseminated pyrite as cubes in the two bands.	AB13801	4.5	4.7	.2	45	n/a	23	n/a	n/a	108
8.9	10.3	CHLORITIC INTERMEDIATE TUFF Similar to the first unit. It is a fine grained rock with 5 to 15 % epidote as altered crystals after feldspar and as veins. 1 to 3% disseminated pyrite occurs as cubes, approximately 3 mm to small grains. There are minor quartz - carbonate veins, which are concentrated about and in epidote.										

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FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGHOLE No: PF-87-1  
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From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
10.3	10.7	SILICIFIED FELSIC CRYSTAL ASH TUFF Quartz and epidote crystals and clasts occur in a felsic matrix with minor disseminated pyrite cubes.										
10.7	13.1	INTERMEDIATE LAPILLI TUFF Hosts quartz and epidote lapilli which are rounded and some are stretched. Quartz lapilli contain small pyrite and epidote grains. There is 1 to 2% disseminated pyrite and small stringers of pyrite. Minor quartz, chlorite, and, epidote veinlets occur.	AB13803	11.3	11.5	.2	27	n/a	29	n/a	n/a	130
13.1	13.5	SILICIFIED FELSIC CRYSTAL ASH TUFF May be silicified dacitic tuff. Contains rounded epidote lapilli and approximately 1% disseminated pyrite.										
13.5	15.1	INTERMEDIATE LAPILLI TUFF Hosts 5 to 15% epidote grains and lapilli and some epidote appears to be associated with spot carbonatization and quartz calcite veins. Minor veins of up to 15 mm wide cross-cut core. Up to 1% minor disseminated pyrite.										
15.1	15.6	INTERMEDIATE LAPILLI TUFF Part of above unit, but is a distinct sub-unit. Contains 30 to 40% epidote lapilli and grains. Lapilli are up to 60 mm in diameter. Quartz - carbonate veinlets and trace disseminated pyrite are found in epidote lapilli.										
15.6	30.2	CHLORITIC FELSIC TUFF Rhyo-dacitic and rhyolitic crystal and lapilli tuffs. The rhyolitic zones may be due to silicification. The tuff is locally rich in disseminated and stringer pyrite, hosts up to 60% over 5 to 10 cm (27.34) but usually is 5% or less, and is as low as nil. In zones of silicification there are quartz carbonate veins up to 5 cm wide, which contain pyrite. The tuff is locally rich in feldspar, epidote and quartz crystals. Pyrite is richest in the rhyo-dacitic or chloritic felsic tuff which has 5 to 10% epidote grains and minor carbonate grains. Pyrite is also found as large (5 mm) blebs on quartz calcite veins in chloritized rhyo-dacite. Very small pyrite cubes are found associated with epidote in the silicified tuff in trace quantities. Quartz crystal occur from 15.58 to 17.90, in trace amounts, and from 17.50 to 17.90 constituting 35%, this zone has a speckled appearance, 18.00 to 18.60 and 26.80 to 30.16 have approximately 2% quartz crystals and approximately 5 to 10% epidote crystals and lapilli. This last section appears to have undergone silicification and contains numerous minor veins and	AB13951 AB13802	19.0 22.4	20.0 22.6	1.0 .2	58 22	11 n/a	34 14	<1 n/a	10 n/a	<20 333

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FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGHOLE No: Page Number  
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From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		veinlets of quartz carbonate. The zones of silicification are a light green to white and the intermediate tuffs are a medium to dark green.										
30.2	35.2	INTERMEDIATE LAPILLI TUFF Fine grained medium green tuff with 5 to 20 % epidote lapilli and locally concentrated quartz lapilli (up to 5 %). Minor carbonate is fracture controlled and / or occurs as veinlets. Pyrite is disseminated and fracture controlled and it constitutes 1 to 2 % of the core. Chlorite plates are visible on core breaks.	AB13804	31.7	31.9	.2	244	n/a	44	n/a	n/a	150
35.2	36.9	MASSIVE FELSIC ASH TUFF Light green felsic tuff with 25 % epidote - feldspar and quartz grains. Trace fracture controlled pyrite occurs with chlorite and minor trace carbonate. Trace chalcopyrite is found with pyrite in fractures. Minor quartz -(carbonate) veins occur at 30 degrees to core axis. The rock has speckled appearance.										
36.9	44.0	INTERMEDIATE LAPILLI TUFF Andesitic tuff with quartz and epidote lapilli. Epidote also forms veins with quartz and carbonate. Epidote is rounded and occurs after feldspar grains. Pyrite averages 1 to 2 % and locally (41.8 to .9) is 18 to 23 %. Veins constitute approximately 1 % or less of the rock and are orientated at a core angle of approximately 0 degrees.	AB13805	42.3	42.5	.2	49	n/a	38	n/a	n/a	193
44.0	44.8	INTERMEDIATE ASH TUFF Dacitic tuff with approximately 15 % quartz and epidote, after feldspar grains. There are minor carbonate veinlets. There is approximately 2 % pyrite mainly fine grained but with some cubes (approximately 3 to 4 mm).										
44.8	56.9	MAFIC LAPILLI TUFF Green coloured tuff with epidote lapilli and crystals. There is local quartz grains and ash up to 15 %. 5 to 15 % epidote is associated with carbonate and may locally occur as veins or veinlets. There is on. Average 1 to 2 % pyrite disseminated and fracture controlled. Most of this unit is mafic but is locally silicified (50.70 to 50.85). Carbonate occurs as trace veinlets and minor fractures occur at numerous orientations but the rock is competent.	AB13952 AB13806	51.3 52.8	52.3 53.0	1.0 .2	38 52	6 n/a	42 44	<1 n/a	5 n/a	<20 80
56.9	57.4	MASSIVE INTERMEDIATE ASH TUFF Intermediate green dacitic (?) fine-grained ash tuff. Mostly stretched quartz and feldspar, which is altered to epidote grains.										



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FALCONBRIDGE LIMITED  
DIAMOND DRILL LOG

SOLE No: Page Number  
PF-87-1 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		There are minor carbonate - epidote vein to veinlets. Hosts trace fine-grained disseminated pyrite.										
57.4	75.9	<b>MAFIC LAPILLI TUFF</b> Medium to dark green grey mafic tuff. Lapilli are composed of epidote and locally of quartz. Epidote lapilli are locally fractured and cross-cut by carbonate veinlets. Epidote lapilli vary from 1.5 to 40 mm and from angular to rounded and comprise 5 to 25 % of the rock. Quartz lapilli are concentrated locally, constituting up to 5 % of the rock and are rounded to stretched, 3 to 10 mm in diameter, and possibly associated the local silicification which is weak to moderate in strength. 1 to 7 % fracture controlled and disseminated pyrite occurs with rare trace chalcopyrite ( average pyrite content approximately 1 to 2 % ) pyrite is concentrated along chlorite fractures. Chlorite foliation is at an orientation of 30 degrees to core axis. There are trace minor carbonate veinlets.	AB13807	67.1	67.4	.3	45	n/a	49	n/a	n/a	90
75.9	76.1	<b>SILICIFIED INTERMEDIATE LAPILLI TUFF</b> There are 5 to 10 % stretched and rounded quartz lapilli and there are approximately 5 % epidote crystals and lapilli. The lower contact is marked by a quartz - carbonate vein of 5 to 7 mm. Epidote also forms veinlets. 1 to 2 % pyrite occurs as cubes which are mainly fracture controlled and some are disseminated. Minor chlorite veinlets occur.										
76.1	88.9	<b>MAFIC ASH TO LAPILLI TUFF</b> Locally moderately silicified medium green to greyish tuff, with the silicification variable in intensity from weak to moderately strong. Epidote lapilli are concentrated locally, and are rounded and also occur as crystals after feldspar. There are local quartz crystals and lapilli some of which are stretched at 70 degrees to core axis to 90 degrees to core axis. Pyrite is mainly banded with epidote and carbonate at 76 to 87 degrees to core axis and is up to 60 % of these 2 to 7 mm bands. Pyrite clots are also found with carbonate blebs. Up to 1 % fine-grained pyrite, which is locally disseminated occurs. Total pyrite content approximately averages 3 % (1 % in upper half and 5 % in lower). A small zone of chloritization is associated with carbonate and has 10 % pyrite and trace chalcopyrite (85.68 to 85.87).	AB13808 AB13965 AB13966 AB13967 AB13968 AB13969 AB13970 AB13971 AB13809 AB13972	76.2 79.1 80.1 81.5 82.5 83.5 84.7 85.7 86.7 87.5	76.4 80.1 81.1 82.5 83.5 84.5 85.7 86.7 86.8 88.5	.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 .1 1.0	82 80 106 27 47 142 693 340 214 381	n/a 5 6 7 7 7 8 8 n/a 10	38 27 26 43 28 34 38 50 41 50	n/a <1 <1 <1 <1 <1 <1 <1 n/a <1	n/a <5 <5 <5 <5 <5 <5 <5 n/a <5 <5	286 <20 <20 <20 80 80 180 <20 228 80
88.9	90.7	<b>MASSIVE INTERMEDIATE BLOCK TUFF</b> Felsic blocks in moderate silicified green dacitic to rhyo-dacitic fine-grained matrix. The blocks may be zones of intense local silicification but appear to be clastic and are not associated with fractures as in previous zones of silicification. The blocks are MASSIVE QUARTZ PORPHYRITIC RHYOLITE or FELSIC QUARTZ CRYSTAL	AB13953	89.0	90.0	1.0	300	9	77	<1	<5	<20

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FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGHOLE No: Page Number  
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From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		TUFF with minor epidote ( approximately 3 % fine-grained epidote after feldspar (?) ) and trace fine-grained disseminated pyrite ( locally up to 1 % ). Pyrite is found in the matrix and is concentrated on clast margins ( up to 40 % over 2 cm ). Epidote occurs as lapilli and veinlets in matrix. Veinlets also contain carbonate and are at approximately 20 to 30 degrees to core axis. Pyrite is also disseminated ( trace to 1 % ).										
90.7	91.2	SILICIFIED INTERMEDIATE TUFF Dacitic green tuff with moderate silicification. Minor epidote and quartz as small lapilli and grains. Trace to minor ( up to 1 % ) disseminated and fracture controlled pyrite. Minor quartz carbonate veins occur.										
91.2	92.0	FAULT ZONE May be fault zone (?). 0.3 M of core lost. Rock is intermediate chloritic material with minor pyrite ( trace ) and minor quartz carbonate veins.										
92.0	93.0	SILICIFIED INTERMEDIATE TUFF Moderate silicification has occurred. Fine-grained green tuff with trace quartz lapilli and minor epidote lapilli and veinlets. Chlorite foliation is at 30 degrees to core axis. 1 % local fracture controlled fine-grained pyrite and trace to 1 % disseminated pyrite.										
93.0	95.0	MASSIVE QUARTZ EYE BEARING FELSIC TUFF Locally blocky, highly fractured core starting at 93.55 and 94.35. Locally lineated parallel to core axis. Quartz eyes are 5 to 9 mm in diameter and constitute 5 to 10 % of the rock. There are local minor epidote and quartz lapilli. Local chloritization has occurred. Minor quartz carbonate veinlets occur. Pyrite occurs with veinlets and as minor disseminated, and pyrite averages 2 to 3 % of the rock.										
95.0	98.5	CHLORITIC QUARTZ EYE BEARING FELSIC TUFF Very strong chloritization occurs very locally, and chloritization locally results in the rock composition becoming greater than 50 % chlorite locally. There are up to 15 % disseminated pyrite cubes and fracture controlled pyrite in areas of intense alteration. Minor to large quartz - chlorite - carbonate veins with pyrite cubes on contact occur. Pyrite averages 4 %. Chlorite and veins have no dominant orientation but trend at low angles to core axis.	AB13954	96.6	97.6	1.0	105	5	65	<1	<5	120

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FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGMOLE No: Page Number  
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From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
98.5	101.5	MASSIVE QUARTZ EYE BEARING FELSIC TUFF Very massive rhyolitic tuff with 5 to 15 %, 3 to 10 mm quartz eyes. It is very light green to greyish white in colour. There is minor fracture controlled pyrite and pyrite in minor carbonate veinlets. The average pyrite content is < 1 %. There is minor chlorite. There are minor fractures at numerous angles.	AB13810	99.9	100.15	.25	29	n/a	<10	n/a	n/a	378
101.5	103.0	ANDESITE Possibly a weakly silicified andesite. Fine-grained green volcanic with chlorite foliation is at 40 to 50 degrees to core axis. Hosts trace to 2 % disseminated pyrite and minor trace carbonate veinlets.										
103.0	104.6	QUARTZ EYE BEARING FELSIC TUFF Massive rhyolitic tuff with 5 to 12 % quartz eyes and minor chlorite veinlets along fractures with trace to 1 % pyrite.										
104.6	105.3	CHLORITIC QUARTZ EYE BEARING FELSIC TUFF Chlorite, carbonate and pyrite veinlets in QUARTZ EYE BEARING FELSIC TUFF with 3 large quartz chlorite carbonate pyrite veins.	AB13955	104.6	105.3	.7	103	6	95	<1	<5	<20
105.3	106.5	INTERMEDIATE CRYSTAL ASE TUFF Similar in appearance to a flow, however; it has rounded clasts of quartz and epidote, after feldspar. Local minor zones of silicification. Trace to 2 % pyrite is found locally. Hosts minor carbonate veinlets.										
106.5	107.9	CHLORITIC FELSIC LAPILLI TUFF Lapilli are rounded quartz, and epidote. Chlorite forms wispy veinlets between clasts. Minor contorted or interstitial carbonate veinlets occur. 1 to 2 % pyrite is disseminated and fracture controlled, which is associated with chlorite and carbonate.										
107.9	115.0	MAFIC TUFF At 110.64 0.2 m of lost core occurs. Mafic green tuff with local quartz crystals and lapilli and epidote crystals and lapilli. Disseminated pyrite, approximately 2 %, forms bands which crosscut the core locally. The pyrite bands are up to 2 cm thick and are not found in local concentrations. There are minor carbonate veinlets. Bedding is at 80 degrees to core axis.	AB13811	111.1	111.2	.1	422	n/a	90	n/a	n/a	240
115.0	115.3	FAULT ZONE 30 Cm of lost core.										

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)	
115.3	136.7	<b>MAFIC LAPILLI TUFF</b> Lapilli of epidote are found throughout the fine-grained mafic green to grey matrix. Local zones of quartz crystals and lapilli exist. Minor local silicification and chloritization have occurred. Quartz - carbonate veinlets are numerous and of no dominant orientation and this vein material also forms clots which are associated pyrite clusters and stringers of 1 to 15 mm which constitute most of the pyrite and 1 to 2 % of the rock. 127.8 to 128.4 has 15 % pyrite with chlorite and as matrix for the quartz lapilli and crystals. Some epidote lapilli have fractured and are cross-cut by carbonate. 132.3 to 134.3 has 20 % epidote lapilli with 1 possible block at 133.15. Average pyrite approximately 2 %.	AB13956	119.0	120.0	1.0	365	<5	48	<1	<5	<20	
			AB13957	120.0	121.0	1.0	226	5	40	<1	<5	<20	
			AB13958	121.0	122.0	1.0	205	<5	39	<1	<5	<20	
			AB13812	122.4	122.6	.2	317	n/a	42	n/a	n/a	161	
			AB13959	127.9	128.5	.6	322	<5	55	<1	<5	300	
			AB13813	132.9	133.1	.2	392	n/a	67	n/a	n/a	50	
136.7	186.3	<b>INTERMEDIATE FELDSPAR CRYSTAL TUFF</b> Fine-grained crystal tuff with 10 to 20 % feldspar crystals. Light to medium green to grey in colour and is andesitic in composition. Minor fracture controlled pyrite and disseminated pyrite are found along carbonate - epidote fractures and minor clots to blebs. Possible epidote lapilli after feldspar dominated clasts. Minor fracture controlled pyrite cross-cut core at 80 to 90 degrees to core axis cross-cut by carbonate vein to veinlets at 60 degrees to core axis in opposite direction. Pyrite averages approximately 1 % . Minor chloritization has occurred. 142 to 145.5 average 5 % epidote clots. 10 cm quartz chlorite vein with 2 % disseminated pyrite at 150.2. At 152 there is disky chlorite. From 154.4 to 154.6 there is a quartz carbonate vein with 5 to 7 % disseminated pyrite and minor chlorite and epidote inclusions with trace ( approximately 0.25 % ) chalcopryrite. Minor epidote - carbonate vein at 157.1 with local trace to 0.5 % chalcopryrite and local fracture controlled pyrite. At 164 there is 0.9 m lost core. From 166.7 to 168 there is moderate chloritization and carbonate veins. At 169.4 there is 1.0 m of lost core. There is blocky, highly fractured core from 168.2 to 173.1. There is a fault at approximately 173 marked by green clay and the orientation appears to parallel chlorite foliation at 20 degrees to core axis. There is blocky, highly fractured core from 176 to 184 with minor competent zones of up to 30 cm. The rubble is mainly chlorite plates. Fault clay at 183.9 to 184 appears to be sub-parallel to the core axis.	AB13814	146.45	146.6	.15	174	n/a	40	n/a	n/a	n/a	50
			AB13960	153.5	154.5	1.0	231	6	51	<1	<5	<20	
			AB13961	154.5	154.7	.2	1794	<5	33	<1	<5	<20	
			AB13962	154.7	155.7	1.0	181	<5	41	<1	<5	<20	
			AB13815	155.9	156.1	.2	102	n/a	44	n/a	n/a	30	
			AB13963	157.0	158.0	1.0	330	6	71	7	<5	<20	
			AB13816	166.1	166.3	.2	44	n/a	52	n/a	n/a	134	
			AB13817	174.9	175.1	.2	50	n/a	38	n/a	n/a	200	
186.3	194.9	<b>QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL</b> Very massive light green rhyolitic rock. It could be a MASSIVE QUARTZ-FELDSPAR CRYSTAL TUFF as the contact is gradational. Large quartz eyes and feldspar crystals up to 20 % of the rock. Trace pyrite and fracture controlled quartz - carbonate veinlets occur. There is no evidence of bedding and the rock appears to be a felsic intrusion or (?) flow.	AB13818	189.4	189.6	.2	2.5	<2	21	<0.5	<5	323	

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
194.9	195.9	INTERMEDIATE QUARTZ-FELDSPAR CRYSTAL TUFF There is blocky, highly fractured core for first and last 40 to 50 cm. There may be chloritization (?). Chlorite plates are dominant feature in broken and disky zones. There is minor trace pyrite. The chlorite foliation at 40 degrees to core axis. The feldspar crystals sauseritized to epidote.										
195.9	196.0	FAULT ZONE Clay zone at approximately 50 degrees to core axis at lower contact.										
196.0	218.4	MAFIC SILL Fine-grained mafic sill, locally weakly magnetic. There are local zones of carbonatization and epidotization. Minor carbonate veinlets occur at 20 to 65 degrees to core axis and these have several cross-cutting relationships. Trace pyrite is associated with the carbonate as clots. The foliation is at 16 to 35 degrees to core axis. There is 0.5 m of lost core at 214.6. The lower contact is hard to locate, and appears to be gradational or may be a fine-grained chilled margin. The chlorite foliation at 218 is 30 degrees to core axis.	AB13964	196.9	197.9	1.0	32	6	100	<1	<5	<20
			AB13819	201.5	201.7	.2	37	<2	100	<0.5	<5	<10
			AB13820	210.9	211.0	.1	17	n/a	82	n/a	n/a	40
			AB13973	217.4	218.4	1.0	55	<5	100	<1	<5	<20
218.4	225.3	FAULT ZONE Clay to competent rock with intense carbonate and epidotization. There is stretching of epidotized lapilli (?) or lithic fragments at 10 to 25 degrees to core axis. Slip planes at : 219.4 at 22 degrees to core axis. 219.7 at 24 degrees to core axis. 220.9 at 17 degrees to core axis. 224.5 at 19 degrees to core axis. There are approximately 5 % carbonate veinlets and 20 % epidote clasts. The matrix is probably dacitic in composition. There is trace pyrite in zones, associated with carbonate veinlets. From 225.0 to end of unit breccia contains some felsic blocks.	AB13821	218.7	218.9	.2	25	n/a	87	n/a	n/a	40
			AB13822	222.8	222.9	.1	12	n/a	78	n/a	n/a	107
			AB13974	222.9	223.9	1.0	23	5	77	<1	<5	<20
225.3	228.7	MAFIC SILL Continuation of the above mafic sill with minor local differences. The chlorite foliation at 30 to 40 degrees to core axis. The lower contact not well defined. The upper contact with the fault zone is at 50 degrees to core axis. There are approximately 0.3 % pyrite blebs or clasts. There is less veining than the above mafic sill.	AB13975	225.7	226.7	1.0	44	6	95	<1	<5	<20
			AB13823	228.5	228.6	.1	87	n/a	87	n/a	n/a	60
228.7	230.4	FAULT ZONE Similar to above fault breccia.										

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
230.4	245.5	<b>MASSIVE FELSIC BLOCK TUFF</b> Large (up to 30 cm) felsic QFP or tuffaceous blocks in a andesitic matrix. Hosts 80 % blocks. Local concentrated pyrite in the matrix (average < 1 %). Minor carbonatization and epidotization occur in the matrix. Quartz - carbonate veins (average up to 1 %) are at 30 to 47 degrees to core axis. From 230.9 to 232.8 may be a fossil fault zone similar to above fault zones, but the rock is competent, except from 231.6 to 231.8, where it is moderate fractured. Lower section (235.0 - 235.8, 243.0 - 245.5) has approximately 25 % epidotization blocks and lapilli with carbonatization in the form of veins and veinlets. Minor quartz veins in zone with concentrated felsic clasts.	AB13976	230.6	231.6	1.0	12	10	57	<1	<5	100
			AB13977	231.6	232.6	1.0	16	5	38	<1	<5	420
			AB13978	232.6	233.4	.8	27	6	23	<1	<5	290
			AB13824	233.4	233.5	.1	32	<2	16	<0.5	<5	314
			AB13979	233.5	234.5	1.0	62	<5	10	<1	<5	210
			AB13980	234.5	234.8	.3	216	5	25	<1	<5	270
			AB13981	237.5	238.5	1.0	57	6	17	<1	<5	230
			AB13825	244.5	244.7	.2	258	n/a	54	n/a	n/a	40
245.5	247.5	<b>FAULT ZONE</b> Clayey chloritic material with epidote and carbonate veins, veinlets, and clasts (?). Upper contact at 12 degrees to core axis. Lower contact at 11 degrees to core axis. Approximately 0.1 m of lost core.										
247.5	257.2	<b>MASSIVE INTERMEDIATE BLOCK TUFF</b> Dacitic tuff breccia or fossil fault breccia. Same as portions of above MASSIVE FELSIC BLOCK TUFF without the felsic blocks. Large epidote clasts (?) with weak to moderate carbonate. Minor trace disseminated pyrite is found locally.	AB13982	255.5	256.5	1.0	172	6	49	<1	<5	120
257.2	259.6	<b>QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL</b> Massive green to grey quartz feldspar porphyry, Saltspring Intrusion (?), sill with approximately 5 to 10 %, 5 to 8 mm quartz eyes and approximately 10 % feldspar grains. Contains blocks of upper or lower tuff breccia and small rounded to sub-angular lapilli sized pieces of intermediate feldspar ash tuff. Quartz eyes are of a intrusive appearance. Hosts minor trace disseminated pyrite locally. There are less crystals (to nil) at lower contact. Pyrite, approximately 2 % over 10 cm, developed below lower contact.	AB13826	259.0	259.2	.2	13	<2	11	<0.5	<5	300
259.6	280.8	<b>MASSIVE INTERMEDIATE BLOCK TUFF</b> Same as above MASSIVE INTERMEDIATE BLOCK TUFF, but has numerous micro-dykes of the above QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL. <b>FAULT ZONE</b> from 262.2 to 262.5 at 9 degrees to core axis with usual development of chloritic clay. Local carbonate veins as in above zone. ***** AT 879 FT. 10 FEET WERE ADDED. (Tag said 889, all meterages have been corrected to the true value).	AB13827	267.0	267.2	.2	74	n/a	42	n/a	n/a	40
			AB13828	277.1	277.3	.2	32	n/a	66	n/a	n/a	114

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		***** Clayey FAULT ZONE with 0.3 m of lost core at 268.0. From 272 to 273 hosts minor amount of felsic QFP or tuff blocks. There is minor chloritization and carbonate from 269.5 to 272. Andesitic flows or dykes, same as previous with pyrite - carbonate clots, from 272.8 to 273.1 and 273.2 to 273.3 with contact at approximately 80 to 90 degrees to core axis. Andesitic flows or dykes in lower zone do not have carbonate or epidote veins and have minor pyrite blebs without carbonate. Rock is fine-grained with well defined contacts. Andesitic unit found from 273.8 to 273.9 274.2 to 274.7, 276.0 to 276.5 277.3 to 277.8, 278.7 to 279.0 279.4 to 279.6, 280.0 to 280.1, and 280.6 to 280.8. Contacts are at approximately 80 to 90 degrees to core axis. From 273.5 to lower contact there are felsic blocks. Pyrite is in trace quantities as blebs ( much less than 1 % ).										
280.8	288.4	QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL Massive quartz feldspar porphyry dyke with locally variable quantities of quartz eyes and feldspar grains with FAULT ZONE and minor quartz - carbonate veins below fault at 282.7.	AB13829	287.0	287.1	.1	1.5	<2	13	<0.5	<5	510
288.4	304.9	MASSIVE INTERMEDIATE BLOCK TUFF Andesitic tuff breccia with epidotized blocks through lapilli to grains. Minor chloritization as wispy veins and veinlets and local carbonate veins. Andesitic sill or flow from 288.5 to 288.9, has sharp contacts and as with other occurrences is not found in tuffs, therefore; indicating it is probably a sill or dyke. Minor trace chalcopyrite is associated with zones of stronger than background carbonate veining and is due to leaching of Cu from the breccia. Rare ash tuff beds are at approximately 30 degrees to core axis. The chlorite foliation is at 20 degrees to core axis on average. Local silicification is found on the margin of some carbonate veins.	AB13983 AB13830	294.4 297.1	295.4 297.2	1.0 .1	869 300	5 n/a	31 35	7 n/a	<5 n/a	150 190
304.9	327.3	QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL Quartz feldspar porphyry dyke, which is visually the same as the above QFP dyke. Trace to nil fine-grained disseminated pyrite occurs. There is a minor barren bull quartz vein at 306.7 ( 2cm thick at 88 degrees to core axis ). Large (30 cm true thickness) quartz vein occurs at 315 with no sulphides and trace chlorite at 37 degrees to core axis. Local variations in coarseness and amount of phenocrysts occur. Block of underlying tuff is found at the lower contact.	AB13831 AB13832	307.1 319.7	307.2 319.9	.1 .2	133 3	n/a <2	25 10	n/a <0.5	n/a <5	80 529
327.3	339.0	MASSIVE INTERMEDIATE BLOCK TUFF Andesitic matrix with epidotization blocks and lapilli carbonate veinlets that cross-cut some of the blocks. Minor beds of INTERMEDIATE CRYSTAL LAPILLI TUFF with approximately 30 % epidote	AB13833 AB13834	335.0 338.8	335.1 338.9	.1 .1	170 12	<2 <2	40 48	<0.5 <0.5	15 4	78 617

PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOG

HOLE No: PF-87-1  
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From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		grains. Bedding is at 62 to 67 degrees to core axis. There is negligible trace pyrite.										
339.0	340.1	CHLORITIC INTERMEDIATE ASH TUFF Intermediate to mafic ash tuff with 5 to 7 % disseminated pyrite and nil to trace chalcopyrite. There are minor quartz - carbonate veins at upper and lower contact of unit. The bedding is at approximately 50 degrees to core axis. The chlorite foliation is at 42 degrees to core axis. FAULT ZONE : 1cm of clay at 339.2.	AB13984	339.0	340.1	1.1	15	<5	49	<1	<5	760
340.1	341.5	MASSIVE INTERMEDIATE BLOCK TUFF Same as above MASSIVE INTERMEDIATE BLOCK TUFF.										
341.5	347.8	QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL QFP dyke as above with minor quartz veining and no sulphides.	AB13835	347.0	347.2	.2	3	<2	13	<0.5	6	349



PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGMOLE No: Page Number  
PF87-2 1

Hole Location: 3+00 W 0+50 S

NTS: 92B13E UTM:  
Azimuth: 202 Elevation: 45 m  
Dip: -50 Length: 382.8 m

Claim No. PF  
Section No.: 3 WEST

Logged By: J. Pattison  
Drilling Co.: BURWASH ENTERPRISES  
Assayed By: BONDAR-CLEGG & XRAL

Started: 7-MAY-87  
Completed: 13-MAY-87

Core Size: NQ

Purpose: To test IP anomaly.

## DIP TESTS

Length	Azi- muth	Dip	Length	Azi- muth	Dip
67.40	202.0	-50.0	309.70	203.0	-51.5
132.00	202.0	-50.5	361.50	203.0	-50.0
277.40	203.0	-51.5			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	5.8	OVERBURDEN AND CASING										
5.8	72.2	MAFIC FELDSPAR CRYSTAL TUFF										
		Medium green-grey fine, grained and relatively massive. Lath-like sized feldspar crystals comprise less than 5 to 30% of the rock. Weak pervasive and spotty chloritization. Sections of weak to moderate spotty carbonate and epidote alteration. Epidote is centred on feldspar crystals and carbonate clots 3 to 20 mm in diameter. Some epidote patches may be altered subrounded clasts. These clasts average about 0.5 to 1.0 cm in diameter and comprise 5 to 15% of the core above 30.0 m. Below 30.0 m they comprise less than 5% of the core.	AB20351	10.2	10.3	.1	60	n/a	45	n/a	n/a	220
		Foliation is at 50 degrees to core axis at 57.0 m. Lower contact is sharp and irregular at about 70 degrees to core axis.	AB20352	21.7	21.8	.1	116	n/a	58	n/a	n/a	68
		Randomly oriented subangular clasts of intermediate to felsic feldspar phyric material up to 3 cm in diameter occur at 5.85 m and at 16.2 m.	AB21701	23.0	24.0	1.0	151	9	52	<1	<5	<20
		Unit contains 2 to 5% disseminated and fracture controlled pyrite. Pyrite occurs as cubes and aggregates 1 to 5 mm in diameter and is often associated with carbonate patches and veinlets.	AB21702	24.0	25.0	1.0	1991	9	72	<1	<5	<20
		From 24.2 to 25.0 m 1% trace chalcopyrite.	AB21703	25.0	26.0	1.0	381	6	58	<1	<5	<20
		From 26.0 to 27.0 m trace chalcopyrite.	AB21704	26.0	27.0	1.0	589	6	63	<1	<5	160
		From 27.0 to 52.2 m 4 to 5% fracture controlled pyrite with trace disseminated chalcopyrite between 43.0 and 44.5 m. At 41.0 m 10% pyrite and trace chalcopyrite over 5 cm associated with carbonate clots. Trace disseminated chalcopyrite in an irregular patch of pyrite 4 cm long at 44.0 m. At 50.5 m a patch of massive pyrite and chalcopyrite 1.5 cm wide is at 65 degrees to core axis.	AB21705	27.0	28.0	1.0	498	11	47	<1	<5	70
		At 51.0 m a 2 cm wide band of semi massive pyrite is associated with chlorite and calcite clots at 50 degrees to core axis.	AB20353	32.6	32.7	.1	69	n/a	55	n/a	n/a	100
			AB21706	34.0	35.0	1.0	124	11	63	<1	<5	<20
			AB21707	35.0	36.0	1.0	158	10	55	<1	<5	30
			AB21708	36.0	37.0	1.0	421	10	47	<1	<5	100
			AB21709	37.0	38.0	1.0	118	8	48	<1	5	<20
			AB21710	38.0	39.0	1.0	255	11	49	<1	<5	30
			AB21711	40.0	41.0	1.0	282	7	42	<1	<5	<20
			AB21712	41.0	42.0	1.0	218	9	41	<1	<5	20
			AB21713	42.0	43.0	1.0	377	8	54	<1	<5	<20
			AB21714	43.0	44.0	1.0	660	10	54	<1	<5	<20
			AB21715	44.0	45.0	1.0	1626	8	62	<1	<5	<20
			AB21716	45.0	46.0	1.0	552	9	53	<1	<5	<20
			AB21717	46.0	47.0	1.0	685	12	75	<1	<5	<20
			AB20354	47.1	47.2	.1	70	n/a	75	n/a	n/a	204
			AB20355	47.3	47.4	.1	759	n/a	51	n/a	n/a	60
			AB20356	47.4	47.5	.1	76	n/a	60	n/a	n/a	100
			AB21718	49.0	50.0	1.0	221	9	58	<1	<5	180
			AB21719	50.0	51.0	1.0	3718	14	64	<1	10	<20
			AB21720	51.0	52.0	1.0	399	7	43	<1	<5	40
			AB21721	57.0	58.0	1.0	391	8	63	<1	<5	<20



PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGHOLE No: Page Number  
PF87-2 3

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	63.6	Vaguely defined 15 cm thick bed of particularly feldspar crystal rich tuff is oriented at 65 degrees to core axis.										
	68.9	70.4 Fault zone. Rock is moderately to strongly chloritized. Zone of loosely consolidated fault breccia 4 cm wide at 10 to 15 degrees to core axis at 69.6 m. Another fault breccia 12 cm wide occurs at 70.0 m. This fault is also at a low angle to the core axis. 10 cm of lost core between 68.9 and 70.1 m.										
	70.1	71.9 15 cm of lost core.										
	71.4	71.6 10% milky white quartz clasts less than 1.0 cm in diameter										
	71.7	71.8 Broken core.										
72.2	76.2	FELSIC QUARTZ FELDSPAR CRYSTAL TUFF OR QUARTZ FELDSPAR PORPHYRITIC INTRUSIVE Pale grey-green aphyric matrix with 20% quartz eyes (?) up to 1 to 5 mm in diameter. Lapilli sized feldspar crystals account for less than 5% of the rock. Moderate pervasive chloritization. Numerous randomly oriented hairline fractures filled with quartz and occasionally carbonate. Nil to 4% pyrite disseminated and as fracture fillings. Band of semi massive pyrite 1 cm wide at 40 degrees to core axis at 75.0 m. Lower contact is a fault contact at 30 degrees to core axis.	AB21730	72.2	73.0	.8	86	5	45	<1	<5	<20
			AB21731	74.0	74.9	.9	432	<5	44	<1	<5	170
			AB20357	75.0	75.1	.1	56	n/a	19	n/a	n/a	150
			AB21732	75.2	76.0	.8	289	<5	64	<1	<5	200
	72.5	72.6 Epidote spotted intermediate tuff. As epidote altered sections in unit above. Upper contact is at 30 degrees to core axis. Lower contact is very irregular at about 50 degrees to core axis.										
	73.5	74.3 As 72.5 to 72.6 m. Epidote is centred on quartz carbonate clots up to 10 cm in diameter.										
	75.0	76.8 25 cm lost core.										
	75.4	75.7 Epidote spotted intermediate tuff as 72.5 to 72.6 m. Upper contact is at 80 to 90 degrees to core axis. Lower contact is indistinct.										
76.2	79.7	MAFIC CRYSTAL TUFF Medium green moderately chloritized. May be a chloritic equivalent of 72.0 to 76.2 m. Very weak spotty epidote centred on carbonate clots less than 4 mm in diameter. 2 to 5% pyrite and trace chalcopryite associated with quartz carbonate and chlorite veinlets. Fault at lower contact at 25 degrees to core axis.	AB21733	76.2	77.0	.8	770	11	191	<1	<5	40
			AB21734	77.0	78.0	1.0	402	5	188	<1	<5	230
			AB21735	78.0	78.8	.8	598	5	186	<1	<5	60
			AB20358	78.8	78.9	.1	708	278	n/a	n/a	n/a	143
			AB21736	79.0	79.7	.7	1243	10	189	<1	5	80







PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOG

HOLE No: Page Number  
PF87-2 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		The flame are oriented at 60 degrees to core axis.										
	137.2	Trace chalcopyrite.										
	137.3	138.9 Broken core with high clay content. Foliation is at 30 degrees to core axis. Fault at 138.9 m at 35 degrees to core axis.										
	139.8	140.5 Flame as those between. 135.6 and 137 m comprise 2 to 5% of core.										
	140.8	141.0 Broken core.										
	141.7	142.6 Possible fault zone. Broken core with high clay content. 0.2 M of lost core between 140.8 and 142.6 m.										
	144.7	Minor fault at 30 degrees to core axis.										
	144.2	144.6 Bed of intermediate ash tuff at 60 degrees to core axis. Grey-green moderately chloritized. No feldspar crystals.										
	145.5	146.0 Broken core.										
	146.5	147.0 Chloritic shear zone medium green fine grained and very soft. Upper contact at 25 degrees to core axis. Lower contact at 10 degrees to core axis.										
	149.4	149.6 Chloritic zone at 15 to 20 degrees to core axis.										
	151.8	152.3 Chlorite-carbonate alteration zone with trace chalcopyrite. Upper contact sharp at 50 degrees to core axis. Lower contact is gradational.										
	154.8	Soft red-brown micaceous mineral along foliation planes biotite (?).										
	154.9	155.9 Intermediate quartz ash tuff. Up to 10% lapilli sized feldspar crystals. Upper and lower contacts are gradational.										
156.6	162.1	FELSIC QUARTZ FELDSPAR CRYSTAL TUFF OR QUARTZ FELDSPAR PORPHYRITIC INTRUSIVE Round lapilli sized quartz grains (10% of rock) and feldspar crystals (10%) in a siliceous pale green aphyric matrix. No definite evidence that this is a tuffaceous rock. Abundant quartz +/- carbonate filled microfractures. Upper contact is gradational over 5 cm. Nil sulphides except for a speck of chalcopyrite at the lower contact which is at 80 degrees to core axis.	AB20365	161.6	161.7	.1	143	n/a	12	n/a	n/a	506









PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGHOLE No: Page Number  
PF87-2 11

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
251.3	253.5	INTERMEDIATE FELDSPAR CRYSTAL TUFF 5 to 10% pale yellow -green epidotized lapilli-sized feldspar crystals (5 TO 10%) and lapilli to block-sized angular epidote altered clasts (5 %) in a grey fine grained weakly chloritized siliceous matrix. Some of the epidote altered clasts may be epidotized carbonate clots. 2% disseminated and fracture controlled pyrite. Upper contact is at 20 degrees to core axis. Lower contact is very irregular at about 30 to 40 degrees to core axis.										
253.5	260.6	QUARTZ FELDSPAR PORPHYRY Light grey-green, massive, very siliceous with intrusive looking contacts. Lower contact is at 48 degrees to core axis. 7% quartz phenocrysts and 5 to 10% feldspar crystals in a very siliceous aphyric matrix. The quartz phenocrysts are round, 3 TO 7 mm in diameter and have a blue caste. The matrix is weakly chloritized and weakly to moderately sericitized. Rock is strongly microfractured. Some sections of the unit are non porphyritic. These sections are more sericitic than the rest of the unit.	AB20376	255.2	255.3	.1	5	n/a	16	n/a	n/a	243
			AB20377	257.6	257.7	.1	6	n/a	15	n/a	n/a	270
253.6	254.3	Inclusion (?) of intermediate feldspar crystal tuff as 251.3 to 253.5 m with 5 % disseminated pyrite. Both upper and lower contacts are irregular. Upper contact is at 40 degrees to core axis. Lower contact is at 50 degrees to core axis.										
255.7	256.0	Inclusion (?) of felsic ash tuff. Grey green massive with 3% disseminated pyrite. Upper contact is sharp at 45 degrees to core axis. Lower contact is sharp and very irregular at about 60 degrees to core axis.										
256.1	257.7	Rock contains far less quartz phenocrysts (< 1%) is more sericitic than the rest of the unit and is more tuffaceous in appearance.										
258.8		A 1.5 cm wide inclusion (?) of fine grained felsic material with 10% pyrite. May actually be alteration related.										
260.3		2 cm wide fault at 90 degrees to core axis.										
260.3	260.6	Chill margin (?). Fine grained non porphyritic section.										
260.6	272.1	MAFIC TO INTERMEDIATE LAPILLI TUFF Olive-green epidote carbonate patches comprise 20 to 25% of the core. The patches average 1.5 cm in diameter, are generally angular in shape and many may be altered clasts. The matrix contains less than 5% ash to lapilli-sized epidotized feldspar crystals. Possible bedding plane at 45 degrees to core axis at 269.4 m. Nil to 1% disseminated pyrite.	AB20378	265.7	265.8	.1	230	n/a	74	n/a	n/a	60















PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOG

MOLE No: Page Number  
PF-87-3 1

Mole Location: 5+00 E 0+30 S

NTS: 092/813 UTM:  
Azimuth: 202 Elevation: 78 m  
Dip: -55 Length: 352.3 m

Started: May 14, 1987  
Completed: May 17, 1987

Claim No. PF  
Section No.: 5+00 West, "Powerline Grid"

Logged By: D.P. Money  
Drilling Co.: Burwash Enterprises  
Assayed By: Bondar-Clegg & XNAL

Purpose: To test IP anomalies

DIP TESTS

Core Size: NQ

Length	Azi- muth	Dip	Length	Azi- muth	Dip
132.90	202.0	-58.0	330.40	202.0	-58.0
242.60	201.0	-58.0			

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.3	OVERBURDEN AND CASING Pebbles appear to be an intermediate ash tuff.										
3.3	30.4	INTERMEDIATE TUFF Intermediate tuff with lithic fragments, lapilli and crystals in a intermediate ash tuff matrix. Locally varying types of alteration. Minor local silicification and chloritization. Average pyrite content is approximately 5 to 7 %, of which 1 to 2 % is disseminated and the remaining amount is hosted by quartz - carbonate veins and veinlets, which are probably fracture controlled and have orientations of 0 to 90 degrees to core axis. Clasts are intermediate feldspar crystal tuff fragments and epidotized lapilli and crystal sized grains. Minor chalcopyrite is associated with large pyrite cubes in the quartz - carbonate veins. Bedding at 5.9 is 10 degrees to core axis, at 16.9 is 44 degrees to core axis and at 18.4 is 46 degrees to core axis. Foliations vary from approximately 25 to 35 degrees to core axis. The core is oxidized to a depth of 4.4 m. Blocky, highly fractured core is found from 5.5 to 6.8, 6.3 to 7.3 and 11.1 to 11.3. These may be fault zones. Faults, with well developed clay slip plates are as follows: at 5.2 the orientation is at 18 degrees to core axis, 6.5 at 17 degrees to core axis, 11.4 is at 10 degrees to core axis and 30.9 is at 18 degrees to core axis. The chloritization and silicification appear to be associated the quartz - carbonate veining.	AB18801	3.3	4.3	1.0	121	<5	47	<1	<5	<20
			AB18802	4.3	5.3	1.0	208	6	63	<1	<5	40
			AB18803	5.3	6.5	1.2	98	<5	62	<1	5	320
			AB18804	7.3	8.3	1.0	111	<5	70	<1	<5	350
			AB18805	8.3	9.3	1.0	281	<5	96	<1	<5	400
			AB18806	9.3	10.3	1.0	222	<5	90	<1	15	420
			AB18807	10.3	11.3	1.0	158	<5	109	<1	<5	80
			AB18808	11.3	12.3	1.0	136	6	91	<1	5	350
			AB18809	12.3	13.3	1.0	85	7	71	<1	<5	430
			AB18810	13.3	14.2	.9	141	6	68	<1	<5	420
			AB18811	14.2	15.2	1.0	108	7	53	<1	<5	420
			AB18812	15.2	16.2	1.0	145	10	59	<1	<5	470
			AB18813	16.2	17.1	.9	92	<5	56	<1	170	470
			AB18814	17.5	18.6	1.1	107	7	61	<1	<5	360
			AB18815	18.6	19.9	1.3	42	6	68	<1	100	440
			AB18816	19.9	20.9	1.0	283	7	60	<1	780	410
			AB18817	20.9	21.9	1.0	80	8	58	<1	25	530
			AB18818	21.9	22.9	1.0	175	9	55	<1	65	470
			AB18819	23.3	24.3	1.0	133	8	55	<1	<5	420
			AB18820	24.3	25.3	1.0	499	6	56	<1	220	390
			AB18821	25.3	26.3	1.0	92	<5	56	<1	<5	410
			AB18822	26.3	27.3	1.0	183	9	44	<1	<5	500
			AB18823	27.3	28.3	1.0	297	<5	53	<1	<5	490
			AB18824	28.3	29.3	1.0	137	6	53	<1	<5	580
			AB18825	29.3	30.4	1.1	530	7	53	<1	<5	510

PROPERTY: PF OPTION

FALCONBRIDGE LIMITED  
DIAMOND DRILL LOGHOLE No: PF-87-3  
Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
30.4	31.2	<b>FAULT ZONE</b> Sheared sericitic material with approximately 5 % disseminated pyrite and clayey fault plates.	AB18826	30.4	31.0	.6	90	8	52	<1	<5	1000
31.2	32.0	<b>INTERMEDIATE TUFF</b> Dacitic ash tuff as above the FAULT ZONE.										
32.0	46.3	<b>MAFIC SILL</b> Light green fine-grained weakly magnetic mafic sill or dyke. Both contacts are not visible, upper in rubble and lower is at a fault. At 43.0 a fault at approximately 85 degrees to core axis is found. Local epidote, carbonate, and quartz - carbonate veins occur. Minor jointing is found locally.	AB15401	34.9	35.0	.1	8	<2	100	0.5	12	60
46.3	49.0	<b>FAULT ZONE</b> Clay FAULT ZONE with chloritized and unaltered tuff blocks. Orientation is at 15 degrees to core axis.										
49.0	78.1	<b>MAFIC ASH TUFF</b> Mafic ash tuff with andesitic sill from 56.0 to 56.6 with contacts at 31 degrees to core axis. 2 to 3 % pyrite in unaltered zones. Locally altered to chlorite - carbonate - pyrite +/- chalcopyrite, strongly altered from 60.1 to 60.8, 65.3 to 66.3, and 70.0 to 75.8. Average pyrite content in altered zone is 7 to 10 %. Faults at 56.9 with the orientation at 25 degrees to core axis and at 57.4 with the orientation at 26 degrees to core axis.	AB18827	49.0	50.0	1.0	262	<5	38	<1	5	430
			AB18828	50.0	51.2	1.2	99	<5	49	<1	<5	290
			AB18829	51.2	52.3	1.1	34	<5	76	<1	<5	<20
			AB18830	52.3	53.3	1.0	18	<5	79	<1	<5	70
			AB15402	53.5	53.6	.1	12	<2	110	<0.5	6	251
			AB18831	53.3	54.3	1.0	35	<5	82	<1	<5	60
			AB18832	54.3	55.3	1.0	87	6	78	<1	<5	220
			AB18833	55.3	56.3	1.0	67	8	74	<1	<5	120
			AB18834	56.3	57.3	1.0	101	10	80	<1	<5	60
			AB18835	57.3	58.3	1.0	160	15	84	<1	<5	50
			AB18836	58.3	59.3	1.0	391	16	55	<1	5	160
			AB18837	59.3	60.3	1.0	35	9	52	<1	<5	<20
			AB18838	60.3	61.3	1.0	89	7	65	<1	5	<20
			AB18839	61.3	62.3	1.0	259	11	33	<1	<5	230
			AB18840	62.3	63.3	1.0	201	7	34	<1	<5	170
			AB18841	63.3	64.3	1.0	144	6	34	<1	5	50
			AB18842	64.3	65.3	1.0	406	11	43	<1	5	110
			AB18843	65.3	66.3	1.0	371	11	54	<1	5	80
			AB18844	66.3	67.3	1.0	486	7	47	<1	<5	<20
			AB18845	67.3	68.3	1.0	370	12	50	<1	5	30
			AB18846	68.3	69.2	.9	212	11	51	<1	<5	<20
			AB18847	69.2	70.2	1.0	185	10	55	<1	5	50
			AB18848	70.2	71.2	1.0	139	10	82	<1	<5	120
			AB18849	71.2	72.2	1.0	25	8	70	<1	<5	100
			AB18850	72.2	73.2	1.0	27	5	69	<1	<5	40
			AB18851	73.2	74.0	.8	23	5	72	<1	5	<20
			AB18852	74.0	74.8	.8	22	6	72	<1	<5	<20
			AB18853	75.0	76.0	1.0	24	7	59	<1	5	130

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
			AB18854	76.0	77.0	1.0	147	10	56	<1	<5	160
			AB18855	77.0	78.1	1.1	249	9	54	<1	<5	130
78.1	138.8	<b>EPIDOTE SPOTTED FELDSPAR PORPHYRITIC MAFIC FLOW</b> Mafic to andesitic flow with approximately 10 to 20 % epidote crystals after feldspar phenocrysts. Locally altered to chlorite - carbonate - pyrite. Pyrite with trace to nil chalcopryrite is disseminated throughout at an average modal value of approximately 3 %. 10 to 20 % pyrite is found in zones of intense chloritization and carbonatization ( 83.6, 103.9 - 104.3 , 122.3 - 123.1, 126.4 - 128.0, 135.7 - 136.4). Fault slips at : 97.4 with orientation at 18 degrees to core axis, 103.6 at 24 degrees to core axis, 108.3 at 10 degrees to core axis, and 134.8 at 31 degrees to core axis. FAULT ZONES at 99.4 ( with 0.3 m lost core ) and (?), blocky, highly fractured core from 108.4 to 109.5 and from 111.2 to 111.6. Fine-grained andesitic sill from 129.0 to 129.2. Foliation at 30 to 90 degrees to core axis, with the end values being dominant.	AB18856	78.1	79.0	.9	279	5	51	<1	<5	70
			AB18857	79.0	80.0	1.0	325	6	38	<1	<5	100
			AB15403	80.2	80.3	.1	210	<2	77	<0.5	18	80
			AB18858	80.0	81.0	1.0	332	5	45	<1	<5	<20
			AB18859	81.0	82.0	1.0	333	9	32	<1	<5	70
			AB18860	82.5	83.5	1.0	527	7	33	<1	5	270
			AB18861	83.5	84.5	1.0	115	7	43	<1	<5	<20
			AB18862	84.5	85.5	1.0	230	9	41	<1	<5	70
			AB18863	85.5	86.5	1.0	116	8	39	<1	<5	100
			AB18864	86.5	87.5	1.0	332	8	39	<1	<5	70
			AB18865	87.5	88.5	1.0	101	7	35	<1	<5	<20
			AB18866	88.5	89.5	1.0	137	14	52	<1	<5	<20
			AB18867	89.5	90.5	1.0	452	10	43	<1	<5	<20
			AB15404	122.5	122.6	.1	260	<2	150	<0.5	9	801
138.8	153.3	<b>QUARTZ EYE BEARING FELSIC TUFF</b> Possibly a QFP dyke as has large quartz - sericite - carbonate - chalcopryrite - chlorite - pyrite vein from 139.1 to 141.7 and a large barren quartz vein from 143.2 to 144.2. Upper contact is gradational with quartz eyes in the flow and the lower contact is at chlorite - carbonate alteration. Contains approximately 8 to 15 % quartz eyes with no epidote or feldspar grains. More sericitic than QFP dykes and weak bedding (?) is observable ( at approximately 66 degrees to core axis ). Trace disseminated pyrite in upper and lower portions. Minor zones of chlorite - carbonate - pyrite alteration.	AB18868	139.0	140.0	1.0	76	<5	10	<1	<5	240
			AB18869	140.0	141.0	1.0	62	26	12	<1	<5	260
			AB18870	141.0	142.0	1.0	181	5	7	<1	<5	520
			AB15405	146.9	147.1	.2	330	<2	21	<0.5	2	625
			AB18871	150.0	151.0	1.0	191	8	22	<1	<5	510
			AB18872	151.0	152.0	1.0	295	6	22	<1	<5	420
			AB18873	152.0	153.3	1.3	108	9	28	<1	<5	220
153.3	154.2	<b>INTERMEDIATE LAPILLI TUFF</b> Andesitic tuff with epidote lapilli and quartz eyes.	AB18879	153.3	154.2	.9	511	10	70	<1	<5	130
154.2	188.5	<b>EPIDOTE SPOTTED FELDSPAR PORPHYRITIC INTERMEDIATE FLOW</b> Andesitic flow with 15 to 20 % epidote crystals after feldspar crystals and locally containing approximately 5 % chlorite after hornblende crystals. Apparent bedding at 24 to 31 degrees to core axis. Foliation at approximately 30 degrees to core axis. Localized chlorite and carbonate, but to a lesser degree than in the upper flow.	AB18874	154.2	155.0	.8	774	9	55	<1	10	<20
			AB18875	155.0	156.0	1.0	319	<5	61	<1	<5	<20
			AB18876	156.0	157.0	1.0	323	5	63	<1	<5	<20
			AB18877	157.0	158.0	1.0	376	5	62	<1	<5	<20
			AB18878	158.0	159.0	1.0	789	6	56	<1	<5	80
			AB18880	159.0	160.0	1.0	328	10	59	<1	<5	470
			AB18881	160.0	161.0	1.0	1160	10	56	<1	5	730
			AB18882	161.0	162.0	1.0	834	8	66	<1	<5	730
			AB18883	163.5	164.5	1.0	334	10	90	<1	<5	350

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
			AB18884	164.5	165.5	1.0	221	10	68	<1	<5	470
			AB18885	165.5	166.5	1.0	345	10	78	<1	<5	390
			AB18886	166.5	167.5	1.0	393	<5	67	<1	<5	330
			AB18887	167.5	168.5	1.0	1538	12	71	<1	10	290
			AB18888	168.5	169.5	1.0	805	11	47	<1	<5	380
			AB18889	175.5	176.5	1.0	405	7	42	<1	<5	260
			AB18890	176.5	177.5	1.0	446	12	69	<1	<5	360
			AB18891	177.5	178.5	1.0	426	11	53	<1	<5	130
			AB18892	179.0	180.0	1.0	607	12	62	<1	<5	<20
			AB18893	181.0	182.0	1.0	418	7	64	<1	<5	<20
			AB18894	182.0	183.0	1.0	271	9	77	<1	<5	<20
			AB18895	183.0	184.0	1.0	485	7	66	<1	<5	<20
			AB18896	184.0	185.0	1.0	479	10	67	<1	<5	<20
			AB18897	185.0	185.9	.9	369	9	66	<1	<5	<20
			AB18898	185.9	186.9	1.0	611	9	53	<1	<5	<20
			AB15406	187.1	187.3	.2	250	<2	69	<0.5	<1	82
188.5	199.0	FAULT ZONE										
		Highly deformed EPIDOTE SPOTTED FELDSPAR PORPHYRITIC INTERMEDIATE	AB15407	190.8	190.95	.15	220	<2	97	<0.5	7	81
		FLOW with strong to intense epidotization, carbonatization and	AB18899	194.0	195.0	1.0	667	7	73	<1	<5	<20
		moderate chloritization with local zones of intense chloritization	AB18900	195.0	196.0	1.0	2311	6	82	<1	<5	<20
		as chlorite - carbonate - pyrite.	AB18901	196.0	197.0	1.0	716	10	69	<1	<5	<20
		Fault slip at 193.3 at orientation of 30 degrees to core axis with	AB18902	197.0	198.0	1.0	701	20	54	<1	<5	<20
		5 cm of epidote, chlorite and carbonate as a pseudo-clay.	AB18903	198.0	199.0	1.0	363	15	56	<1	<5	<20
		Wavy quartz - carbonate - epidote veins at orientations from 10 to										
		90 degrees to core axis.										
		Epidote and chlorite crystals from the flow are still present.										
		Zone is probably a highly altered fault breccia.										
199.0	203.4	QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL										
		QFP dyke, sub-parallel to bedding, or sill with medium to coarse	AB18904	199.0	200.0	1.0	35	9	5	<1	<5	790
		quartz eyes and fine-grained feldspar crystals.	AB15408	202.6	202.75	.15	6	<2	11	<0.5	22	806
		Minor disseminated pyrite.										
		The foliation is at 25 degrees to core axis.										
203.4	207.5	INTERMEDIATE LAPILLI TUFF										
		Andesitic tuff with epidotized lapilli and minor carbonate as	AB18905	205.0	206.0	1.0	390	8	40	<1	<5	<20
		veinlets.	AB18906	206.0	207.0	1.0	508	11	37	<1	<5	<20
		Foliation at 40 degrees to core axis.										
		Bedding at 58 degrees to core axis.										
		Locally approximately 1 to 2 % pyrite with local trace chalcopyrite										
		as epidote hosted blebs.										
207.5	209.9	QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL										
		QFP dyke with a sharp lower contact and minor silicification of the	AB15409	207.9	208.0	.1	12	<2	14	<0.5	8	254
		tuff at the upper contact.										
		Minor quartz - carbonate veinlets occur.										

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		The foliation is at 28 and 75 degrees to core axis and is imparted by chlorite and sericite. Trace disseminated pyrite is found locally.										
209.9	212.4	<b>INTERMEDIATE LAPILLI TUFF</b> Andesitic lapilli tuff with epidotized lapilli. The rock averages 2 % disseminated pyrite. Minor local zones of silicification.	AB18907 AB18908	210.0 211.4	211.4 212.4	1.4 1.0	423 578	14 13	50 42	<1 <1	<5 <5	<20 70
212.4	243.3	<b>EPIDOTE SPOTTED FELDSPAR PORPHYRITIC INTERMEDIATE FLOW</b> Mafic flow with local zones of carbonatization and epidotization. Fine-grained green to grey matrix with approximately 10 % epidote phenocrysts after feldspars. Local chlorite phenocrysts after hornblende (up to 7%) and very locally trace quartz phenocrysts (?) are found. Disseminated and fracture controlled pyrite averages 2 % and is locally concentrated. Local chalcopyrite is found. Local fine-grained phases. Foliations are at 42.5 degrees to core axis. Flow layering is at 31 degrees to core axis. Silicification for 1 m above lower contact.	AB18909 AB18910 AB18911 AB18912 AB18913 AB18914 AB18915 AB18916 AB18917 AB15410 AB18918 AB18919 AB18920 AB18921 AB18922 AB18923	212.4 213.4 214.0 215.0 216.9 218.0 219.0 220.0 221.7 223.3 224.1 225.4 235.2 240.0 241.0 242.0	213.4 214.0 215.0 216.0 218.0 219.0 220.0 221.0 222.7 223.4 225.1 226.4 236.2 241.0 242.0 243.3	1.0 .6 1.0 1.0 1.1 1.0 1.0 1.0 1.0 .1 1.0 1.0 1.0 1.0 1.0 1.3	717 419 172 349 662 307 303 544 489 370 368 406 415 231 393 732	7 6 8 13 6 6 7 <5 8 <2 <5 6 <5 5 8 9 8	47 48 61 51 61 42 51 47 47 69 44 45 37 51 62 82	<1 <1 <1 <1 <1 <1 <1 <1 <0.5 <1 <1 <1 <1 <1 <1 <1	<5 <5 <5 <5 <5 <5 <5 <5 <5 21 <5 <5 <5 <5 <5 <5	380 430 210 230 80 30 300 170 660 115 570 50 330 250 270 390
243.3	246.8	<b>RHYOLITE</b> Brecciated rhyolite with sericite and 1 % total sulphides, pyrite >> chalcopyrite, as fracture filling. No phenocrysts of quartz or feldspar. Gradational upper contact with silicification for approximately 1 m. into the tuff above, and sharp lower contact. Sill (?) or thin lobe of a flow (?).	AB18924 AB15411 AB18925 AB18926 AB18927	243.3 244.6 244.0 245.0 246.0	244.0 244.8 245.0 246.0 246.8	.7 .2 1.0 1.0 .8	761 510 429 852 444	7 <2 5 5 11	45 28 24 36 23	<1 <0.5 <1 <1 <1	<5 5 <5 <5 <5	350 284 290 310 270
246.8	255.3	<b>INTERMEDIATE CRYSTAL LAPILLI TUFF</b> Andesitic to dacitic tuff with epidotized lapilli and feldspar crystals with minor interbeds of intermediate ash tuff. Minor carbonatization as carbonate veinlets. Locally disseminated pyrite in trace quantities. Minor lithic lapilli from an intermediate flow are found. Bedding is at 50 degrees to core axis.										
255.3	272.7	<b>QUARTZ FELDSPAR PORPHYRY DYKE OR SILL</b> Most likely an intrusion ( sill or dyke ), but may be a lapilli tuff as it has epidote clasts or lapilli.	AB18928 AB15412	255.7 263.85	256.7 264.0	1.0 .15	18 6	7 <2	6 18	<1 <0.5	<5 14	180 455

From (m)	To (m)	-----DESCRIPTION-----	Sample No.	From (m)	To (m)	Width (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		This section contains minor lengths of intermediate lapilli tuff from 256.9 to 258.0, and 266.8 to 268.0. The contacts with these zones are sharp or faults. Faults are found at 268 at an orientation of 24 degrees to core axis, 272 at 80 degrees to core axis and 272.7 at approximately 10 degrees to core axis. Average pyrite content is up to 1 % and the pyrite is disseminated.										
272.7	320.5	EPIDOTE SPOTTED FELDSPAR PORPHYRITIC MAFIC FLOW Mafic flow with local carbonatization, epidotization, and chloritization. Green medium grained flow with epidote after feldspar and local chlorite after hornblende. Chlorite - carbonate - pyrite alteration zones from 283.1 to 283.2, 303.9 to 305.3 311.0 to 320.5. Local quartz veins at 304.2, 313.4 and 317.0, that are approximately 20 cm thick and contain chlorite, but no sulphides. The alteration zones contain on average 2 to 3 % pyrite and trace to 0.5 % chalcopyrite. In the unaltered sections the average pyrite content is 1 to 2 %. There is local epidotization as large clots that are cross-cut by carbonate veinlets that host trace chalcopyrite and up to 2 % pyrite. Chloritic and carbonitic clay fault zones at 275.6 with a orientation of 32 degrees to core axis, at 283.6 with the orientation at 26 degrees to core axis, at 283.5 at 18 degrees to core axis, from 290.5 to 291.1, at 304.6 and at 311.6 at an orientation of 18 degrees to core axis. Blocky, highly fractured core is found from 314.0 to 314.8. The foliation averages 50 degrees to core axis.	AB18929	276.0	277.0	1.0	315	10	47	<1	<5	<20
			AB18930	277.0	278.0	1.0	228	6	47	<1	<5	<20
			AB18931	278.0	279.0	1.0	55	7	58	<1	<5	<20
			AB18932	279.0	280.0	1.0	301	12	67	<1	<5	<20
			AB18933	282.0	283.0	1.0	92	5	85	<1	<5	180
			AB18934	283.0	284.0	1.0	219	5	88	<1	<5	230
			AB18935	284.0	285.0	1.0	106	<5	59	<1	<5	140
			AB18936	285.0	286.0	1.0	107	<5	58	<1	<5	420
			AB18937	286.0	287.0	1.0	111	6	72	<1	<5	330
			AB18938	287.0	288.0	1.0	226	6	49	<1	25	320
			AB18939	288.0	289.0	1.0	117	14	47	<1	25	230
			AB18940	297.0	298.0	1.0	117	9	47	<1	<5	160
			AB18941	299.0	300.0	1.0	630	16	43	<1	<5	<20
			AB18942	302.5	303.5	1.0	370	9	31	<1	<5	<20
			AB18943	303.5	304.5	1.0	125	7	47	<1	<5	<20
			AB15413	305.0	305.1	.1	63	<2	90	<0.5	<1	71
			AB18944	304.5	305.5	1.0	123	9	45	<1	<5	<20
			AB18945	305.5	306.5	1.0	201	11	34	<1	<5	150
			AB18946	306.5	307.5	1.0	75	7	41	<1	<5	110
			AB18947	307.5	308.5	1.0	357	5	29	<1	<5	180
			AB18948	308.5	309.5	1.0	512	<5	33	<1	<5	<20
			AB18949	309.5	310.5	1.0	295	9	35	<1	<5	<20
			AB18950	311.0	312.0	1.0	77	19	42	<1	<5	210
			AB18951	312.0	313.0	1.0	17	<5	44	<1	<5	30
			AB18952	313.0	314.0	1.0	12	<5	31	<1	<5	150
			AB18953	314.0	315.0	1.0	129	10	35	<1	<5	230
			AB18954	315.0	316.0	1.0	198	10	29	<1	<5	230
			AB18955	316.0	317.0	1.0	9	7	47	<1	<5	120
			AB18956	317.0	318.0	1.0	11	<5	41	<1	<5	160
			AB18957	318.0	319.0	1.0	50	5	52	<1	<5	180
			AB18958	319.0	320.0	1.0	20	9	54	<1	<5	70
320.5	323.1	QUARTZ - FELDSPAR PORPHYRY DYKE OR SILL QFP sill or dyke. White well foliated porphyry, foliation imparted by sericite, with 15 to 25 % quartz eyes, ranging from 1 to 8 mm in size and from round to square, and containing 2 to 4 % fine-grained feldspar grains. The foliation averages 47 degrees to core axis. The QFP dyke has 1 % disseminated pyrite and trace chalcopyrite.	AB15414	321.4	321.5	.1	82	<2	11	<0.5	4	743
			AB18959	320.5	322.0	1.5	36	19	3	<1	<5	710
			AB18960	322.0	323.1	1.1	41	8	4	<1	<5	940





**DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)**

SAMPLE NUMBER	FROM	TO												ROCK	CODES	
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)		ALI	MIN
AB13951	19.00	20.00	<20.0	58.0	34.0	<0.5	10.0	33.0	20.0	11.0	11.0	<1.0	5.0	IIB	?EM	DCY
AB13952	51.30	52.30	<20.0	38.0	42.0	<0.5	5.0	39.0	13.0	6.0	<5.0	<1.0	14.0	IIA	?E	DCY
AB13965	79.10	80.10	<20.0	80.0	27.0	<0.5	<5.0	39.0	18.0	5.0	<5.0	<1.0	7.0	IIB	?	DCY
AB13966	80.10	81.10	<20.0	106.0	26.0	<0.5	<5.0	24.0	13.0	6.0	<5.0	<1.0	2.0	IIB	?	DCY
AB13967	81.50	82.50	<20.0	27.0	43.0	<0.5	<5.0	44.0	13.0	7.0	<5.0	<1.0	4.0	IIB	?	DCY
AB13968	82.50	83.50	80.0	47.0	28.0	<0.5	<5.0	36.0	18.0	7.0	5.0	<1.0	3.0	IIB	?	DCY
AB13969	83.50	84.50	80.0	142.0	34.0	<0.5	<5.0	31.0	19.0	7.0	<5.0	<1.0	3.0	IIB	?	DCY
AB13970	84.70	85.70	180.0	693.0	38.0	<0.5	<5.0	34.0	13.0	8.0	<5.0	<1.0	7.0	IIB	?	DCY
AB13971	85.70	86.70	<20.0	340.0	50.0	<0.5	<5.0	44.0	20.0	8.0	<5.0	<1.0	9.0	IIB	?	DCY
AB13972	87.50	88.50	80.0	381.0	50.0	<0.5	<5.0	31.0	17.0	10.0	<5.0	<1.0	6.0	IIB	?	DCY
AB13953	89.00	90.00	<20.0	300.0	77.0	<0.5	<5.0	33.0	44.0	9.0	<5.0	<1.0	10.0	IIC	?	BDY
AB13954	96.60	97.60	120.0	105.0	65.0	<0.5	<5.0	40.0	43.0	5.0	<5.0	<1.0	4.0	IFA	PHS	SDY
AB13955	104.50	105.50	<20.0	103.0	95.0	<0.5	<5.0	22.0	18.0	6.0	<5.0	<1.0	69.0	FPA	?	DCP
AB13956	119.00	120.00	<20.0	365.0	48.0	<0.5	<5.0	31.0	52.0	<5.0	<5.0	<1.0	14.0	IIB	?	AA*
AB13957	120.00	121.00	<20.0	226.0	40.0	<0.5	<5.0	33.0	43.0	5.0	<5.0	<1.0	11.0	IIB	?	AA*
AB13958	121.00	122.00	<20.0	205.0	39.0	<0.5	<5.0	35.0	35.0	<5.0	<5.0	<1.0	40.0	IIB	?	AA*
AB13959	127.90	128.50	300.0	322.0	55.0	<0.5	<5.0	59.0	40.0	<5.0	<5.0	<1.0	4.0	IIB	?	AA*

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**DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)**

SAMPLE NUMBER	FROM	TO	BA	CU	ZN	AG	AU	CO	NI	PB	AS	CD	MO	ROCK	CODES	
			(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		ALT	MIN
AB13960	153.50	154.50	<20.0	231.0	51.0	<0.5	<5.0	28.0	58.0	6.0	<5.0	<1.0	54.0	TIAA	ECA	SBP
AB13961	154.50	154.70	<20.0	1794.0	33.0	<0.5	<5.0	111.0	104.0	<5.0	<5.0	<1.0	9.0	EPA	?	DCY
AB13962	154.70	155.70	<20.0	181.0	41.0	<0.5	<5.0	28.0	51.0	<5.0	<5.0	<1.0	4.0	TIA	?	SBP
AB13963	157.00	158.00	<20.0	330.0	71.0	7.3	<5.0	43.0	37.0	6.0	<5.0	<1.0	80.0	TIA	?	AAA
AB13964	196.90	197.90	<20.0	32.0	100.0	<0.5	<5.0	35.0	14.0	6.0	<5.0	<1.0	3.0	VIMH	ECA	DBP
AB13973	217.40	218.40	<20.0	55.0	100.0	<0.5	<5.0	39.0	12.0	<5.0	<5.0	<1.0	1.0	PIA	?	DBP
AB13974	222.90	223.90	<20.0	23.0	77.0	<0.5	<5.0	20.0	27.0	5.0	<5.0	<1.0	13.0	O	?	A
AB13975	225.70	226.70	<20.0	44.0	95.0	<0.5	<5.0	37.0	12.0	6.0	5.0	<1.0	2.0			
AB13976	230.60	231.60	100.0	12.0	57.0	<0.5	<5.0	18.0	17.0	10.0	10.0	<1.0	8.0			
AB13977	231.60	232.60	420.0	16.0	38.0	<0.5	<5.0	12.0	10.0	5.0	<5.0	<1.0	6.0			
AB13978	232.60	233.50	290.0	27.0	23.0	<0.5	<5.0	8.0	10.0	6.0	<5.0	<1.0	9.0			
AB13979	233.50	234.50	210.0	62.0	10.0	<0.5	<5.0	7.0	46.0	<5.0	<5.0	<1.0	4.0			
AB13980	234.50	234.80	270.0	216.0	25.0	<0.5	<5.0	13.0	11.0	5.0	<5.0	<1.0	8.0			
AB13981	237.50	238.50	230.0	57.0	17.0	<0.5	<5.0	8.0	5.0	6.0	<5.0	<1.0	4.0			
AB13982	255.50	256.50	120.0	172.0	49.0	<0.5	<5.0	19.0	7.0	6.0	<5.0	<1.0	4.0			
AB13983	294.40	295.40	150.0	869.0	31.0	6.6	<5.0	21.0	6.0	5.0	5.0	<1.0	7.0	TIC	??	DCY
AB13984	339.00	340.10	760.0	15.0	49.0	<0.5	<5.0	29.0	13.0	<5.0	<5.0	<1.0	18.0	TIA	?	DCY

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DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO												ROCK	CODES	
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)		ALT	MIN
AB21701	23.00	24.00	<20.0	151.0	52.0	<0.5	<5.0	20.0	13.0	9.0	<5.0	<1.0	3.0			
AB21702	24.00	25.00	<20.0	1991.0	72.0	<0.5	<5.0	23.0	13.0	9.0	7.0	<1.0	3.0			
AB21703	25.00	26.00	<20.0	381.0	58.0	<0.5	<5.0	25.0	11.0	6.0	6.0	<1.0	2.0			
AB21704	26.00	27.00	160.0	589.0	63.0	<0.5	<5.0	28.0	12.0	6.0	5.0	<1.0	5.0			
AB21705	27.00	28.00	70.0	498.0	47.0	<0.5	<5.0	22.0	12.0	11.0	6.0	<1.0	3.0			
AB21706	34.00	35.00	<20.0	124.0	63.0	<0.5	<5.0	24.0	19.0	11.0	<5.0	<1.0	5.0			
AB21707	35.00	36.00	30.0	158.0	55.0	<0.5	<5.0	25.0	18.0	10.0	11.0	<1.0	4.0			
AB21708	36.00	37.00	100.0	421.0	47.0	<0.5	<5.0	20.0	14.0	10.0	5.0	<1.0	4.0			
AB21709	37.00	38.00	<20.0	118.0	48.0	<0.5	5.0	25.0	18.0	8.0	<5.0	<1.0	6.0			
AB21710	38.00	39.00	30.0	255.0	49.0	<0.5	<5.0	26.0	22.0	11.0	<5.0	<1.0	6.0			
AB21711	40.00	41.00	<20.0	282.0	42.0	<0.5	<5.0	28.0	20.0	7.0	<5.0	<1.0	4.0			
AB21712	41.00	42.00	20.0	218.0	41.0	<0.5	<5.0	29.0	27.0	9.0	7.0	<1.0	5.0			
AB21713	42.00	43.00	<20.0	377.0	54.0	<0.5	<5.0	27.0	31.0	8.0	<5.0	<1.0	3.0			
AB21714	43.00	44.00	<20.0	660.0	54.0	<0.5	<5.0	30.0	44.0	10.0	<5.0	<1.0	6.0			
AB21715	44.00	45.00	<20.0	1626.0	62.0	<0.5	<5.0	50.0	57.0	8.0	<5.0	<1.0	4.0			
AB21716	45.00	46.00	<20.0	552.0	53.0	<0.5	<5.0	25.0	31.0	9.0	<5.0	<1.0	4.0			
AB21717	46.00	47.00	<20.0	685.0	75.0	<0.5	<5.0	38.0	59.0	12.0	7.0	<1.0	7.0			

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Page No.

**DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)**

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	HI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES ALT	MIN
AB21718	49.00	50.00	180.0	221.0	58.0	<0.5	<5.0	37.0	35.0	9.0	<5.0	<1.0	5.0			
AB21719	50.00	51.00	<20.0	3200.0	64.0	<0.5	10.0	49.0	26.0	14.0	<5.0	<1.0	6.0			
AB21720	51.00	52.00	40.0	399.0	43.0	<0.5	<5.0	28.0	28.0	7.0	<5.0	<1.0	3.0			
AB21721	57.00	58.00	<20.0	391.0	63.0	<0.5	<5.0	29.0	55.0	8.0	7.0	<1.0	4.0			
AB21722	58.00	59.00	<20.0	1521.0	62.0	<0.5	<5.0	28.0	46.0	8.0	<5.0	<1.0	4.0			
AB21723	59.00	60.00	480.0	146.0	31.0	<0.5	<5.0	7.0	22.0	6.0	<5.0	<1.0	1.0			
AB21724	61.00	62.00	<20.0	71.0	75.0	<0.5	<5.0	29.0	40.0	8.0	<5.0	<1.0	7.0			
AB21725	62.00	63.00	80.0	798.0	51.0	<0.5	<5.0	29.0	34.0	8.0	<5.0	<1.0	1.0			
AB21726	63.00	64.00	<20.0	279.0	40.0	<0.5	<5.0	34.0	35.0	<5.0	<5.0	<1.0	1.0			
AB21727	64.00	65.00	<20.0	112.0	48.0	<0.5	<5.0	29.0	35.0	9.0	<5.0	<1.0	5.0			
AB21728	70.00	71.00	<20.0	363.0	60.0	<0.5	<5.0	27.0	35.0	9.0	<5.0	<1.0	6.0			
AB21729	71.00	72.00	<20.0	1384.0	58.0	<0.5	<5.0	29.0	33.0	5.0	<5.0	<1.0	6.0			
AB21730	72.00	73.00	<20.0	86.0	45.0	<0.5	<5.0	18.0	23.0	5.0	<5.0	<1.0	6.0			
AB21731	74.00	75.00	170.0	432.0	44.0	<0.5	<5.0	17.0	18.0	<5.0	<5.0	<1.0	58.0			
AB21732	75.00	76.00	200.0	289.0	64.0	<0.5	<5.0	15.0	14.0	<5.0	<5.0	<1.0	15.0			
AB21733	76.00	77.00	40.0	770.0	191.0	<0.5	<5.0	37.0	44.0	11.0	<5.0	<1.0	17.0			
AB21734	77.00	78.00	230.0	402.0	188.0	<0.5	<5.0	28.0	55.0	5.0	<5.0	<1.0	8.0			

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DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZK (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES	
															ALI	MIN
AB21735	78.00	79.00	60.0	598.0	186.0	<0.5	<5.0	39.0	61.0	5.0	<5.0	<1.0	50.0			
AB21736	79.00	80.00	80.0	1243.0	189.0	<0.5	5.0	53.0	46.0	10.0	<5.0	<1.0	16.0			
AB21737	80.00	82.00	<20.0	310.0	153.0	<0.5	<5.0	36.0	35.0	7.0	<5.0	<1.0	12.0			
AB21738	82.00	83.00	<20.0	390.0	93.0	<0.5	<5.0	27.0	30.0	<5.0	<5.0	<1.0	11.0			
AB21739	83.00	84.00	70.0	619.0	92.0	<0.5	5.0	34.0	25.0	10.0	<5.0	<1.0	59.0			
AB21740	84.00	85.00	50.0	451.0	86.0	<0.5	<5.0	29.0	30.0	<5.0	<5.0	<1.0	19.0			
AB21741	90.00	91.00	190.0	471.0	78.0	<0.5	<5.0	29.0	34.0	<5.0	<5.0	<1.0	30.0			
AB21742	91.00	92.00	100.0	387.0	82.0	<0.5	10.0	42.0	29.0	5.0	<5.0	<1.0	32.0			
AB21743	92.00	93.00	30.0	208.0	91.0	<0.5	5.0	32.0	39.0	6.0	<5.0	<1.0	8.0			
AB21744	93.00	94.00	<20.0	336.0	64.0	<0.5	<5.0	27.0	36.0	6.0	<5.0	<1.0	28.0			
AB21745	96.00	97.00	<20.0	600.0	74.0	<0.5	10.0	42.0	48.0	6.0	<5.0	<1.0	6.0			
AB21746	97.00	98.00	<20.0	582.0	78.0	<0.5	5.0	43.0	47.0	5.0	<5.0	<1.0	6.0			
AB21747	98.00	99.00	40.0	373.0	112.0	<0.5	<5.0	26.0	32.0	6.0	<5.0	<1.0	41.0			
AB21748	150.80	151.80	<20.0	844.0	39.0	<0.5	5.0	27.0	34.0	8.0	<5.0	<1.0	6.0			
AB21749	151.80	152.30	<20.0	2159.0	69.0	<0.5	5.0	28.0	66.0	<5.0	<5.0	<1.0	11.0			
AB21750	152.30	153.30	40.0	700.0	42.0	<0.5	<5.0	24.0	25.0	7.0	<5.0	<1.0	6.0			
AB21754	212.00	213.00	360.0	595.0	57.0	<0.5	<5.0	20.0	12.0	11.0	<5.0	<1.0	3.0			

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DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES ALI	MIN
AB21755	213.00	214.00	390.0	676.0	59.0	<0.5	<5.0	23.0	9.0	7.0	<5.0	<1.0	3.0			
AB21756	214.00	215.00	90.0	270.0	67.0	<0.5	<5.0	20.0	15.0	5.0	<5.0	<1.0	3.0			
AB21751	226.00	227.00	30.0	281.0	61.0	<0.5	5.0	18.0	11.0	9.0	<5.0	<1.0	4.0			
AB21752	227.00	228.00	180.0	305.0	65.0	<0.5	<5.0	19.0	13.0	5.0	<5.0	<1.0	4.0			
AB21753	228.00	229.00	290.0	126.0	83.0	<0.5	<5.0	18.0	10.0	7.0	<5.0	<1.0	9.0			
AB21757	244.00	245.00	210.0	236.0	58.0	<0.5	<5.0	20.0	19.0	6.0	<5.0	<1.0	8.0			
AB21758	245.50	246.50	300.0	565.0	51.0	<0.5	<5.0	17.0	9.0	8.0	<5.0	<1.0	9.0			
AB21759	288.00	289.00	<20.0	504.0	23.0	<0.5	<5.0	11.0	9.0	8.0	<5.0	<1.0	<1.0			
AB21760	289.00	290.00	<20.0	636.0	96.0	<0.5	<5.0	31.0	17.0	12.0	<5.0	<1.0	1.0			
AB21761	290.00	291.00	20.0	897.0	104.0	<0.5	<5.0	34.0	29.0	14.0	11.0	<1.0	11.0			
AB21762	291.00	292.00	<20.0	749.0	97.0	<0.5	<5.0	29.0	27.0	8.0	5.0	<1.0	3.0			
AB21763	292.00	293.00	40.0	563.0	64.0	<0.5	<5.0	34.0	26.0	6.0	<5.0	<1.0	5.0			
AB21764	293.00	294.00	60.0	454.0	56.0	<0.5	<5.0	20.0	19.0	7.0	5.0	<1.0	3.0			
AB21765	294.00	295.00	80.0	332.0	96.0	<0.5	<5.0	20.0	29.0	8.0	<5.0	<1.0	3.0			
AB21766	295.00	296.00	60.0	356.0	112.0	<0.5	<5.0	22.0	15.0	9.0	<5.0	<1.0	2.0			
AB21767	301.00	302.00	50.0	458.0	243.0	<0.5	<5.0	25.0	18.0	7.0	<5.0	<1.0	9.0			
AB21768	302.00	303.00	80.0	638.0	966.0	<0.5	<5.0	22.0	22.0	9.0	8.0	13.0	10.0			

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DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO												ROCK	CODES	
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	HI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)		ALT	MIN
AB21769	303.00	304.00	60.0	799.0	457.0	<0.5	<5.0	30.0	34.0	8.0	<5.0	<1.0	13.0			
AB21770	304.00	305.00	<20.0	274.0	368.0	<0.5	<5.0	21.0	26.0	<5.0	<5.0	<1.0	10.0			
AB21771	305.00	306.00	30.0	706.0	345.0	<0.5	<5.0	34.0	29.0	11.0	<5.0	<1.0	9.0			
AB21772	307.00	308.00	<20.0	400.0	148.0	<0.5	<5.0	25.0	20.0	<5.0	<5.0	<1.0	4.0			
AB21773	308.00	309.00	<20.0	425.0	123.0	<0.5	<5.0	27.0	23.0	<5.0	<5.0	<1.0	9.0			
AB21774	309.00	310.00	<20.0	280.0	102.0	<0.5	<5.0	23.0	22.0	<5.0	<5.0	<1.0	2.0			
AB21775	310.00	311.00	390.0	341.0	128.0	<0.5	<5.0	27.0	22.0	6.0	<5.0	<1.0	3.0			
AB21776	311.00	312.00	110.0	1269.0	143.0	<0.5	<5.0	28.0	23.0	<5.0	<5.0	<1.0	2.0			
AB21777	312.00	313.00	150.0	274.0	125.0	<0.5	<5.0	23.0	21.0	7.0	<5.0	<1.0	5.0			
AB21778	313.00	314.00	<20.0	281.0	80.0	<0.5	<5.0	22.0	18.0	8.0	<5.0	<1.0	6.0			
AB21779	314.00	315.00	<20.0	287.0	76.0	<0.5	<5.0	22.0	17.0	9.0	<5.0	<1.0	6.0			
AB21780	315.00	316.00	<20.0	892.0	100.0	<0.5	<5.0	44.0	34.0	8.0	<5.0	<1.0	31.0			
AB21781	316.00	317.00	<20.0	302.0	83.0	<0.5	<5.0	26.0	29.0	7.0	<5.0	<1.0	11.0			
AB21782	317.00	318.00	<20.0	495.0	79.0	<0.5	<5.0	30.0	22.0	5.0	<5.0	<1.0	25.0			
AB21783	318.00	319.00	480.0	375.0	60.0	<0.5	<5.0	22.0	18.0	5.0	<5.0	<1.0	11.0			
AB21784	319.00	320.00	280.0	551.0	69.0	<0.5	<5.0	31.0	23.0	7.0	<5.0	<1.0	18.0			
AB21785	320.00	321.00	<20.0	477.0	55.0	<0.5	<5.0	29.0	26.0	6.0	<5.0	<1.0	4.0			

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DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES	
															ALT	MIN
AB21786	321.00	322.00	140.0	226.0	47.0	<0.5	<5.0	19.0	22.0	8.0	<5.0	<1.0	7.0			
AB21787	322.00	323.00	530.0	177.0	39.0	<0.5	<5.0	36.0	13.0	7.0	<5.0	<1.0	21.0			
AB21788	323.00	324.00	<20.0	113.0	36.0	<0.5	5.0	17.0	17.0	10.0	<5.0	<1.0	10.0			
AB21789	324.00	325.00	40.0	102.0	47.0	<0.5	<5.0	26.0	19.0	12.0	<5.0	<1.0	7.0			
AB21790	325.00	326.00	<20.0	196.0	52.0	<0.5	<5.0	26.0	25.0	10.0	<5.0	<1.0	18.0			
AB21791	326.00	327.00	<20.0	494.0	51.0	<0.5	<5.0	38.0	53.0	<5.0	<5.0	<1.0	18.0			
AB21792	327.00	328.00	<20.0	443.0	43.0	<0.5	<5.0	36.0	50.0	5.0	<5.0	<1.0	6.0			
AB21793	328.00	329.00	<20.0	639.0	37.0	<0.5	<5.0	35.0	28.0	8.0	6.0	<1.0	17.0			
AB21794	334.00	335.00	<20.0	242.0	43.0	<0.5	<5.0	25.0	23.0	<5.0	<5.0	<1.0	45.0			
AB21795	335.00	336.00	<20.0	588.0	36.0	<0.5	<5.0	39.0	25.0	<5.0	<5.0	<1.0	19.0			
AB21796	336.00	337.00	30.0	299.0	37.0	<0.5	<5.0	29.0	18.0	10.0	<5.0	<1.0	18.0			
AB21797	337.00	338.00	350.0	443.0	35.0	<0.5	<5.0	26.0	14.0	7.0	<5.0	<1.0	117.0			
AB21798	338.00	339.00	220.0	339.0	41.0	<0.5	<5.0	23.0	18.0	<5.0	<5.0	<1.0	18.0			
AB21799	341.50	342.50	<20.0	266.0	27.0	<0.5	<5.0	25.0	20.0	6.0	<5.0	<1.0	74.0			
AB21800	342.50	343.00	<20.0	245.0	31.0	<0.5	<5.0	23.0	19.0	8.0	<5.0	<1.0	89.0			
AB21801	343.00	344.00	<20.0	239.0	32.0	<0.5	<5.0	21.0	19.0	10.0	5.0	<1.0	5.0			
AB21802	354.00	355.00	800.0	199.0	33.0	<0.5	<5.0	14.0	19.0	6.0	<5.0	<1.0	19.0			



DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA	CU	ZN	AG	AU	CO	NI	PB	AS	CD	HO	ROCK	CODES	
			(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		ALT	MIN
AB21803	355.00	355.50	<20.0	722.0	44.0	<0.5	<5.0	35.0	26.0	6.0	<5.0	<1.0	3.0			
AB21804	355.50	356.50	<20.0	397.0	41.0	<0.5	<5.0	24.0	17.0	6.0	<5.0	<1.0	5.0			
AB21805	363.50	364.50	<20.0	239.0	38.0	<0.5	<5.0	19.0	20.0	8.0	<5.0	<1.0	3.0			
AB21806	364.50	365.00	<20.0	532.0	36.0	<0.5	<5.0	38.0	24.0	13.0	<5.0	<1.0	29.0			
AB21807	365.00	366.00	<20.0	165.0	56.0	<0.5	<5.0	24.0	36.0	13.0	<5.0	<1.0	4.0			

Hole No. PF-87-2

Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO												ROCK	CODES	
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	NO (ppm)		ALT	MIN
AB18801	3.30	4.30	<20.0	121.0	47.0	<0.5	<5.0	28.0	29.0	<5.0	5.0	<1.0	<1.0			
AB18802	4.30	5.30	40.0	208.0	63.0	<0.5	<5.0	26.0	27.0	6.0	9.0	<1.0	1.0			
AB18803	5.30	6.50	320.0	98.0	62.0	<0.5	5.0	18.0	12.0	<5.0	<5.0	<1.0	<1.0			
AB18804	7.30	8.30	350.0	111.0	70.0	<0.5	<5.0	25.0	11.0	<5.0	<5.0	<1.0	2.0			
AB18805	8.30	9.30	400.0	281.0	96.0	<0.5	<5.0	21.0	10.0	<5.0	<5.0	<1.0	<1.0			
AB18806	9.30	10.30	420.0	222.0	90.0	<0.5	15.0	19.0	11.0	<5.0	<5.0	<1.0	<1.0			
AB18807	10.30	11.30	80.0	158.0	109.0	<0.5	<5.0	18.0	11.0	<5.0	<5.0	<1.0	1.0			
AB18808	11.30	12.30	350.0	136.0	91.0	<0.5	5.0	18.0	11.0	6.0	<5.0	<1.0	1.0			
AB18809	12.30	13.30	430.0	85.0	71.0	<0.5	<5.0	14.0	12.0	7.0	<5.0	<1.0	3.0			
AB18810	13.30	14.20	420.0	141.0	68.0	<0.5	<5.0	19.0	12.0	6.0	5.0	<1.0	1.0			
AB18811	14.20	15.20	420.0	108.0	53.0	<0.5	<5.0	15.0	11.0	7.0	5.0	<1.0	<1.0			
AB18812	15.20	16.20	470.0	145.0	59.0	<0.5	<5.0	19.0	11.0	10.0	8.0	<1.0	1.0			
AB18813	16.20	17.10	470.0	92.0	56.0	<0.5	170.0	19.0	9.0	<5.0	<5.0	<1.0	2.0			
AB18814	17.50	18.60	360.0	107.0	61.0	<0.5	<5.0	20.0	9.0	7.0	<5.0	<1.0	2.0			
AB18815	18.60	19.90	440.0	42.0	68.0	<0.5	100.0	19.0	9.0	6.0	<5.0	<1.0	1.0			
AB18816	19.90	20.90	410.0	283.0	60.0	<0.5	780.0	31.0	13.0	7.0	<5.0	<1.0	2.0			
AB18817	20.90	21.90	530.0	80.0	58.0	<0.5	25.0	15.0	10.0	8.0	<5.0	<1.0	<1.0			

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Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	Fe (ppm)	Cu (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Co (ppm)	Ni (ppm)	Pb (ppm)	As (ppm)	Cd (ppm)	Mn (ppm)	ROCK	CODES	
															ALT	MIN
AB18818	21.90	22.90	470.0	175.0	55.0	<0.5	65.0	26.0	11.0	9.0	<5.0	<1.0	<1.0			
AB18819	23.30	24.30	420.0	133.0	55.0	<0.5	<5.0	20.0	12.0	8.0	<5.0	<1.0	<1.0			
AB18820	24.30	25.30	390.0	499.0	56.0	<0.5	220.0	22.0	11.0	6.0	8.0	<1.0	5.0			
AB18821	25.30	26.30	410.0	92.0	56.0	<0.5	<5.0	22.0	12.0	<5.0	<5.0	<1.0	1.0			
AB18822	26.30	27.30	500.0	183.0	44.0	<0.5	<5.0	28.0	10.0	9.0	<5.0	<1.0	19.0			
AB18823	27.30	28.30	490.0	297.0	53.0	<0.5	<5.0	27.0	10.0	<5.0	6.0	<1.0	2.0			
AB18824	28.30	29.30	580.0	137.0	53.0	<0.5	<5.0	22.0	9.0	6.0	<5.0	<1.0	1.0			
AB18825	29.30	30.20	510.0	530.0	53.0	<0.5	<5.0	27.0	9.0	7.0	7.0	<1.0	2.0			
AB18826	30.20	31.00	1000.0	90.0	52.0	<0.5	<5.0	30.0	20.0	8.0	<5.0	<1.0	1.0			
AB18827	49.00	50.00	430.0	262.0	38.0	<0.5	5.0	20.0	11.0	<5.0	<5.0	<1.0	11.0			
AB18828	50.00	51.20	290.0	99.0	49.0	<0.5	<5.0	35.0	13.0	<5.0	<5.0	<1.0	23.0			
AB18829	51.20	52.30	<20.0	34.0	76.0	<0.5	<5.0	38.0	12.0	<5.0	<5.0	<1.0	11.0			
AB18830	52.30	53.30	70.0	18.0	79.0	<0.5	<5.0	27.0	10.0	<5.0	<5.0	<1.0	15.0			
AB18831	53.30	54.30	60.0	35.0	82.0	<0.5	<5.0	26.0	12.0	<5.0	<5.0	<1.0	55.0			
AB18832	54.30	55.30	220.0	87.0	78.0	<0.5	<5.0	39.0	9.0	6.0	<5.0	<1.0	29.0			
AB18833	55.30	56.30	120.0	67.0	74.0	<0.5	<5.0	31.0	29.0	8.0	<5.0	<1.0	13.0			
AB18834	56.30	57.30	60.0	101.0	80.0	<0.5	<5.0	43.0	37.0	10.0	<5.0	<1.0	30.0			

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DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES	
															ALT	MIN
AB18835	57.30	58.30	50.0	160.0	84.0	<0.5	<5.0	37.0	60.0	15.0	21.0	<1.0	50.0			
AB18836	58.30	59.30	160.0	391.0	55.0	<0.5	5.0	31.0	25.0	16.0	12.0	<1.0	43.0			
AB18837	59.30	60.30	<20.0	35.0	52.0	<0.5	<5.0	10.0	10.0	9.0	5.0	<1.0	14.0			
AB18838	60.30	61.30	<20.0	89.0	65.0	<0.5	5.0	32.0	19.0	7.0	<5.0	<1.0	56.0			
AB18839	61.30	62.30	230.0	259.0	33.0	<0.5	<5.0	18.0	17.0	11.0	5.0	<1.0	10.0			
AB18840	62.30	63.30	170.0	201.0	34.0	<0.5	<5.0	17.0	16.0	7.0	5.0	<1.0	12.0			
AB18841	63.30	64.30	50.0	144.0	34.0	<0.5	5.0	18.0	9.0	6.0	9.0	<1.0	2.0			
AB18842	64.30	65.30	110.0	406.0	43.0	<0.5	5.0	29.0	34.0	11.0	6.0	<1.0	4.0			
AB18843	65.30	66.30	80.0	371.0	54.0	<0.5	5.0	39.0	44.0	11.0	5.0	<1.0	15.0			
AB18844	66.30	67.30	<20.0	486.0	47.0	<0.5	<5.0	33.0	37.0	7.0	<5.0	<1.0	4.0			
AB18845	67.30	68.30	30.0	370.0	50.0	<0.5	5.0	33.0	44.0	12.0	<5.0	<1.0	2.0			
AB18846	68.30	69.20	<20.0	212.0	51.0	<0.5	<5.0	25.0	43.0	11.0	<5.0	<1.0	1.0			
AB18847	69.20	70.20	50.0	185.0	55.0	<0.5	5.0	33.0	41.0	10.0	<5.0	<1.0	3.0			
AB18848	70.20	71.20	120.0	139.0	82.0	<0.5	<5.0	43.0	31.0	10.0	5.0	<1.0	34.0			
AB18849	71.20	72.20	100.0	25.0	70.0	<0.5	<5.0	32.0	21.0	8.0	<5.0	<1.0	19.0			
AB18850	72.20	73.20	40.0	27.0	69.0	<0.5	<5.0	34.0	28.0	5.0	<5.0	<1.0	10.0			
AB18851	73.20	74.00	<20.0	23.0	72.0	<0.5	5.0	29.0	25.0	5.0	<5.0	<1.0	8.0			

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DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO											ROCK	CODES		
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)		MO (ppm)	ALT	MIN
AB18852	74.00	74.80	<20.0	22.0	72.0	<0.5	<5.0	42.0	24.0	6.0	<5.0	<1.0	23.0			
AB18853	75.00	76.00	130.0	24.0	59.0	<0.5	5.0	20.0	20.0	7.0	<5.0	<1.0	28.0			
AB18854	76.00	77.00	160.0	147.0	56.0	<0.5	<5.0	24.0	27.0	10.0	15.0	<1.0	25.0			
AB18855	77.00	78.00	130.0	249.0	54.0	<0.5	<5.0	31.0	31.0	9.0	6.0	<1.0	2.0			
AB18856	78.00	79.00	70.0	279.0	51.0	<0.5	<5.0	21.0	22.0	5.0	<5.0	<1.0	8.0			
AB18857	79.00	80.00	100.0	325.0	38.0	<0.5	<5.0	24.0	27.0	6.0	<5.0	<1.0	41.0			
AB18858	80.00	81.10	<20.0	332.0	45.0	<0.5	<5.0	24.0	31.0	5.0	<5.0	<1.0	2.0			
AB18859	81.00	82.00	70.0	333.0	32.0	<0.5	<5.0	28.0	30.0	9.0	7.0	<1.0	7.0			
AB18860	82.50	83.50	270.0	527.0	33.0	<0.5	5.0	31.0	35.0	7.0	<5.0	<1.0	3.0			
AB18861	83.40	85.50	<20.0	115.0	43.0	<0.5	<5.0	22.0	21.0	7.0	6.0	<1.0	4.0			
AB18862	84.50	85.50	70.0	230.0	41.0	<0.5	<5.0	24.0	33.0	9.0	<5.0	<1.0	1.0			
AB18863	85.50	86.50	100.0	116.0	39.0	<0.5	<5.0	31.0	33.0	8.0	<5.0	<1.0	1.0			
AB18864	86.50	87.50	70.0	332.0	39.0	<0.5	<5.0	29.0	31.0	8.0	<5.0	<1.0	5.0			
AB18865	87.50	88.50	<20.0	101.0	35.0	<0.5	<5.0	16.0	22.0	7.0	<5.0	<1.0	1.0			
AB18866	88.50	89.50	<20.0	137.0	52.0	<0.5	<5.0	29.0	28.0	14.0	<5.0	<1.0	16.0			
AB18867	89.50	90.50	<20.0	452.0	43.0	<0.5	<5.0	41.0	29.0	10.0	<5.0	<1.0	6.0			
AB21808	90.50	91.50	<20.0	207.0	49.0	<0.5	<5.0	24.0	26.0	17.0	<5.0	<1.0	1.0			GA

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Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO												ROCK	CODES	
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	HI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)		ALT	MIN
AB21826	122.00	123.00	620.0	194.0	85.0	<0.5	<5.0	25.0	31.0	13.0	<5.0	<1.0	5.0	0A		
AB21827	123.00	124.00	620.0	323.0	99.0	<0.5	<5.0	36.0	33.0	22.0	<5.0	<1.0	19.0	0A		
AB21828	124.00	125.00	530.0	283.0	75.0	<0.5	<5.0	13.0	6.0	24.0	20.0	<1.0	50.0	0A		
AB21829	125.00	126.00	70.0	60.0	136.0	<0.5	<5.0	17.0	7.0	27.0	<5.0	<1.0	39.0	0A		
AB21830	126.00	127.00	<20.0	138.0	173.0	<0.5	<5.0	30.0	35.0	7.0	<5.0	<1.0	23.0	0A		
AB21831	127.00	128.00	<20.0	512.0	145.0	<0.5	<5.0	44.0	31.0	<5.0	<5.0	<1.0	57.0	0A		
AB21832	128.00	129.00	<20.0	292.0	107.0	<0.5	<5.0	24.0	38.0	5.0	<5.0	<1.0	4.0	0A		
AB21833	129.00	129.20	<20.0	423.0	79.0	<0.5	5.0	33.0	48.0	6.0	<5.0	<1.0	1.0	0A		
AB21834	129.20	130.00	<20.0	347.0	96.0	<0.5	<5.0	34.0	40.0	9.0	<5.0	<1.0	2.0	0A		
AB21835	135.00	136.00	<20.0	639.0	57.0	<0.5	<5.0	51.0	64.0	17.0	<5.0	<1.0	2.0	0A		
AB21836	136.00	137.00	<20.0	691.0	70.0	<0.5	<5.0	47.0	62.0	22.0	5.0	<1.0	6.0	0A		
AB21837	137.00	138.00	<20.0	470.0	74.0	<0.5	<5.0	28.0	25.0	5.0	<5.0	<1.0	8.0	0A		
AB21838	138.00	139.00	<20.0	762.0	94.0	<0.5	<5.0	34.0	35.0	5.0	<5.0	<1.0	3.0	0A		
AB18868	139.00	140.00	240.0	76.0	10.0	<0.5	<5.0	4.0	2.0	<5.0	10.0	<1.0	19.0			
AB18869	140.00	141.00	260.0	62.0	12.0	<0.5	<5.0	2.0	3.0	26.0	10.0	<1.0	16.0			
AB18870	141.00	142.00	520.0	181.0	7.0	<0.5	<5.0	5.0	3.0	5.0	14.0	<1.0	31.0			
AB18871	150.00	151.00	510.0	191.0	22.0	<0.5	<5.0	11.0	3.0	8.0	13.0	<1.0	15.0			

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Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES	
															ALI	MIN
AB18872	151.00	152.00	420.0	295.0	22.0	<0.5	<5.0	11.0	4.0	6.0	11.0	<1.0	64.0			
AB18873	152.00	153.00	220.0	108.0	28.0	<0.5	<5.0	7.0	4.0	9.0	11.0	<1.0	15.0			
AB18879	153.00	154.00	130.0	511.0	70.0	<0.5	<5.0	36.0	36.0	10.0	<5.0	<1.0	14.0			
AB18874	154.00	155.00	<20.0	774.0	55.0	<0.5	10.0	39.0	37.0	9.0	<5.0	<1.0	8.0			
AB18875	155.00	156.00	<20.0	319.0	61.0	<0.5	<5.0	23.0	31.0	<5.0	<5.0	<1.0	3.0			
AB18876	156.00	157.00	<20.0	323.0	63.0	<0.5	<5.0	25.0	29.0	5.0	<5.0	<1.0	5.0			
AB18877	157.00	158.00	<20.0	376.0	62.0	<0.5	<5.0	30.0	33.0	5.0	<5.0	<1.0	<1.0			
AB18878	158.00	159.00	80.0	789.0	56.0	<0.5	<5.0	30.0	35.0	6.0	<5.0	<1.0	5.0			
AB18880	159.00	160.00	470.0	328.0	59.0	<0.5	<5.0	20.0	27.0	10.0	<5.0	<1.0	4.0			
AB18881	160.00	161.00	730.0	1160.0	56.0	<0.5	5.0	40.0	37.0	10.0	<5.0	<1.0	11.0			
AB18882	161.00	162.00	730.0	834.0	66.0	<0.5	<5.0	34.0	34.0	8.0	<5.0	<1.0	5.0			
AB18883	163.50	164.50	350.0	334.0	90.0	<0.5	<5.0	29.0	28.0	10.0	<5.0	<1.0	22.0			
AB18884	164.50	165.50	470.0	221.0	68.0	<0.5	<5.0	18.0	28.0	10.0	<5.0	<1.0	8.0			
AB18885	165.50	166.50	390.0	345.0	78.0	<0.5	<5.0	23.0	29.0	10.0	<5.0	<1.0	4.0			
AB18886	166.50	167.50	330.0	393.0	67.0	<0.5	<5.0	26.0	40.0	<5.0	<5.0	<1.0	20.0			
AB18887	167.50	168.50	290.0	1538.0	71.0	<0.5	10.0	49.0	44.0	12.0	<5.0	<1.0	15.0			
AB18888	168.50	169.50	380.0	805.0	47.0	<0.5	<5.0	29.0	23.0	11.0	8.0	<1.0	24.0			

Hole No. PF-87-3

Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CD (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CO (ppm)	MO (ppm)	ROCK	CODES	
															ALT	MIN
AB18889	175.50	176.50	260.0	405.0	42.0	<0.5	<5.0	20.0	29.0	7.0	5.0	<1.0	13.0			
AB18890	176.50	177.50	360.0	446.0	69.0	<0.5	<5.0	33.0	40.0	12.0	<5.0	<1.0	7.0			
AB18891	177.50	178.50	130.0	426.0	53.0	<0.5	<5.0	31.0	35.0	11.0	<5.0	<1.0	11.0			
AB18892	179.00	180.00	<20.0	607.0	62.0	<0.5	<5.0	36.0	47.0	12.0	<5.0	<1.0	8.0			
AB18893	181.00	182.00	<20.0	418.0	64.0	<0.5	<5.0	29.0	52.0	7.0	<5.0	<1.0	3.0			
AB18894	182.00	183.00	<20.0	271.0	77.0	<0.5	<5.0	26.0	49.0	9.0	<5.0	<1.0	4.0			
AB18895	183.00	184.00	<20.0	485.0	66.0	<0.5	<5.0	29.0	57.0	7.0	<5.0	<1.0	1.0			
AB18896	184.00	185.00	<20.0	479.0	67.0	<0.5	<5.0	34.0	73.0	10.0	<5.0	<1.0	2.0			
AB18897	185.00	185.90	<20.0	369.0	66.0	<0.5	<5.0	37.0	62.0	9.0	<5.0	<1.0	49.0			
AB18898	185.90	186.90	<20.0	611.0	53.0	<0.5	<5.0	25.0	51.0	9.0	<5.0	<1.0	27.0			
AB18899	194.00	195.00	<20.0	667.0	73.0	<0.5	<5.0	29.0	68.0	7.0	<5.0	<1.0	4.0			
AB18900	195.00	196.00	<20.0	2311.0	82.0	<0.5	<5.0	44.0	95.0	6.0	<5.0	<1.0	50.0			
AB18901	196.00	197.00	<20.0	716.0	69.0	<0.5	<5.0	28.0	78.0	10.0	<5.0	<1.0	4.0			
AB18902	197.00	198.00	<20.0	701.0	54.0	<0.5	<5.0	31.0	64.0	20.0	<5.0	<1.0	1.0			
AB18903	198.00	199.00	<20.0	363.0	56.0	<0.5	<5.0	18.0	49.0	15.0	<5.0	<1.0	3.0			
AB18904	199.00	200.00	790.0	35.0	5.0	<0.5	<5.0	7.0	5.0	9.0	<5.0	<1.0	<1.0			
AB18905	205.00	206.00	<20.0	390.0	40.0	<0.5	<5.0	28.0	49.0	8.0	<5.0	<1.0	4.0			

Hole No. PE-87-3

Page No.



DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES	
															ALT	MIN
AB18906	206.00	207.00	<20.0	508.0	37.0	<0.5	<5.0	30.0	48.0	11.0	<5.0	<1.0	12.0			
AB18907	210.00	211.40	<20.0	423.0	50.0	<0.5	<5.0	31.0	55.0	14.0	<5.0	<1.0	12.0			
AB18908	211.40	212.40	70.0	578.0	42.0	<0.5	<5.0	28.0	30.0	13.0	<5.0	<1.0	10.0			
AB18909	212.40	213.40	380.0	717.0	47.0	<0.5	<5.0	27.0	14.0	7.0	<5.0	<1.0	18.0			
AB18910	213.40	214.00	430.0	419.0	48.0	<0.5	<5.0	22.0	9.0	6.0	<5.0	<1.0	4.0			
AB18911	214.00	215.00	210.0	172.0	61.0	<0.5	<5.0	18.0	9.0	8.0	<5.0	<1.0	3.0			
AB18912	215.00	216.00	230.0	349.0	51.0	<0.5	<5.0	23.0	9.0	13.0	<5.0	<1.0	4.0			
AB18913	216.90	218.00	80.0	662.0	61.0	<0.5	<5.0	32.0	13.0	6.0	<5.0	<1.0	2.0			
AB18914	218.00	219.00	30.0	307.0	42.0	<0.5	<5.0	24.0	11.0	6.0	<5.0	<1.0	1.0			
AB18915	219.00	220.00	300.0	303.0	51.0	<0.5	<5.0	30.0	10.0	7.0	<5.0	<1.0	3.0			
AB18916	220.00	221.00	170.0	544.0	47.0	<0.5	<5.0	24.0	22.0	<5.0	15.0	<1.0	25.0			
AB18917	221.70	222.70	660.0	489.0	47.0	<0.5	<5.0	27.0	7.0	8.0	<5.0	<1.0	18.0			
AB18918	224.10	225.10	570.0	368.0	44.0	<0.5	<5.0	31.0	10.0	<5.0	<5.0	<1.0	4.0			
AB18919	225.40	226.40	50.0	406.0	45.0	<0.5	<5.0	23.0	7.0	6.0	<5.0	<1.0	3.0			
AB18920	235.20	236.20	330.0	415.0	37.0	<0.5	<5.0	16.0	9.0	<5.0	<5.0	<1.0	5.0			
AB18921	240.00	241.00	250.0	231.0	51.0	<0.5	<5.0	21.0	9.0	8.0	7.0	<1.0	10.0			
AB18922	241.00	242.00	270.0	393.0	62.0	<0.5	<5.0	28.0	9.0	9.0	<5.0	<1.0	16.0			

Hole No. PE-87-3

Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	ROCK	CODES	
															ALT	MIN
AB18923	242.00	243.00	390.0	732.0	82.0	<0.5	<5.0	25.0	9.0	8.0	<5.0	<1.0	42.0			
AB18924	243.00	244.00	350.0	761.0	45.0	<0.5	<5.0	12.0	6.0	7.0	<5.0	<1.0	16.0			
AB18925	244.00	245.00	290.0	429.0	24.0	<0.5	<5.0	11.0	6.0	5.0	<5.0	<1.0	10.0			
AB18926	245.00	246.00	310.0	852.0	36.0	<0.5	<5.0	15.0	11.0	5.0	<5.0	<1.0	10.0			
AB18927	246.00	247.00	270.0	444.0	23.0	<0.5	<5.0	6.0	5.0	11.0	<5.0	<1.0	31.0			
AB18928	255.70	256.70	180.0	18.0	6.0	<0.5	<5.0	4.0	3.0	7.0	6.0	<1.0	3.0			
AB18929	276.00	277.00	<20.0	315.0	47.0	<0.5	<5.0	24.0	28.0	10.0	<5.0	<1.0	21.0			
AB18930	277.00	278.00	<20.0	228.0	47.0	<0.5	<5.0	22.0	28.0	6.0	<5.0	<1.0	19.0			
AB18931	278.00	279.00	<20.0	55.0	58.0	<0.5	<5.0	25.0	22.0	7.0	<5.0	<1.0	10.0			
AB18932	279.00	280.00	<20.0	301.0	67.0	<0.5	<5.0	23.0	27.0	12.0	<5.0	<1.0	7.0			
AB18933	282.00	283.00	180.0	92.0	85.0	<0.5	<5.0	19.0	23.0	5.0	<5.0	<1.0	22.0			
AB18934	283.00	284.00	230.0	219.0	88.0	<0.5	<5.0	29.0	20.0	5.0	<5.0	<1.0	9.0			
AB18935	284.00	285.00	140.0	106.0	59.0	<0.5	<5.0	16.0	14.0	<5.0	<5.0	<1.0	5.0			
AB18936	285.00	286.00	420.0	107.0	58.0	<0.5	<5.0	21.0	14.0	<5.0	<5.0	<1.0	3.0			
AB18937	286.00	287.00	330.0	111.0	72.0	<0.5	<5.0	19.0	22.0	6.0	<5.0	<1.0	7.0			
AB18938	287.00	288.00	320.0	226.0	49.0	<0.5	25.0	33.0	23.0	6.0	<5.0	<1.0	13.0			
AB18939	288.00	289.00	230.0	117.0	47.0	<0.5	25.0	19.0	14.0	14.0	<5.0	<1.0	68.0			

Hole No. PF-87-3

Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO												ROCK	CODES	
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)		ALI	MIN
AB18940	297.00	298.00	160.0	117.0	47.0	<0.5	<5.0	29.0	9.0	9.0	7.0	<1.0	26.0			
AB18941	299.00	300.00	<20.0	630.0	43.0	<0.5	<5.0	29.0	26.0	16.0	47.0	<1.0	14.0			
AB18942	302.50	303.50	<20.0	370.0	31.0	<0.5	<5.0	36.0	22.0	9.0	8.0	<1.0	12.0			
AB18943	303.50	304.50	<20.0	125.0	47.0	<0.5	<5.0	15.0	20.0	7.0	<5.0	<1.0	5.0			
AB18944	304.50	305.50	<20.0	123.0	45.0	<0.5	<5.0	20.0	34.0	9.0	10.0	<1.0	7.0			
AB18945	305.50	306.50	150.0	201.0	34.0	<0.5	<5.0	26.0	23.0	11.0	11.0	<1.0	11.0			
AB18946	306.50	307.50	110.0	75.0	41.0	<0.5	<5.0	15.0	13.0	7.0	<5.0	<1.0	6.0			
AB18947	307.50	308.50	180.0	357.0	29.0	<0.5	<5.0	25.0	14.0	5.0	7.0	<1.0	9.0			
AB18948	308.50	309.50	<20.0	512.0	33.0	<0.5	<5.0	31.0	19.0	<5.0	<5.0	<1.0	4.0			
AB18949	309.50	311.50	<20.0	295.0	35.0	<0.5	<5.0	23.0	20.0	9.0	<5.0	<1.0	3.0			
AB18950	311.00	312.00	210.0	77.0	42.0	<0.5	<5.0	28.0	18.0	19.0	<5.0	<1.0	99.0			
AB18951	312.00	313.00	30.0	17.0	44.0	<0.5	<5.0	15.0	14.0	<5.0	7.0	<1.0	26.0			
AB18952	313.00	314.00	150.0	12.0	31.0	<0.5	<5.0	11.0	12.0	<5.0	<5.0	<1.0	14.0			
AB18953	314.00	315.00	230.0	129.0	35.0	<0.5	<5.0	21.0	20.0	10.0	<5.0	<1.0	5.0			
AB18954	315.00	316.00	230.0	198.0	29.0	<0.5	<5.0	22.0	12.0	10.0	5.0	<1.0	10.0			
AB18955	316.00	317.00	120.0	9.0	47.0	<0.5	<5.0	22.0	21.0	7.0	<5.0	<1.0	9.0			
AB18956	317.00	318.00	160.0	11.0	41.0	<0.5	<5.0	21.0	10.0	<5.0	<5.0	<1.0	50.0			

Hole No. PE-87-3

Page No.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO												ROCK	CODES	
			BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)		ALT	MIN
AB18957	318.00	319.00	180.0	50.0	52.0	<0.5	<5.0	28.0	19.0	5.0	<5.0	<1.0	12.0			
AB18958	319.00	320.00	70.0	20.0	54.0	<0.5	<5.0	19.0	20.0	9.0	<5.0	<1.0	12.0			
AB18959	320.50	322.00	710.0	36.0	3.0	<0.5	<5.0	2.0	1.0	19.0	<5.0	<1.0	1.0			
AB18960	322.00	323.10	940.0	41.0	4.0	<0.5	<5.0	2.0	1.0	8.0	<5.0	<1.0	4.0			
AB18961	323.10	324.10	200.0	113.0	36.0	<0.5	<5.0	13.0	13.0	12.0	<5.0	<1.0	13.0			
AB18962	324.10	325.00	<20.0	128.0	55.0	<0.5	<5.0	22.0	37.0	7.0	<5.0	<1.0	28.0			
AB18963	325.00	326.00	<20.0	71.0	45.0	<0.5	<5.0	30.0	33.0	8.0	<5.0	<1.0	6.0			
AB18964	332.00	336.00	<20.0	319.0	33.0	<0.5	<5.0	30.0	22.0	8.0	<5.0	<1.0	13.0			
AB18965	334.50	335.40	<20.0	128.0	47.0	<0.5	<5.0	36.0	23.0	5.0	<5.0	<1.0	2.0			
AB18966	339.00	340.00	280.0	713.0	22.0	<0.5	<5.0	27.0	13.0	<5.0	<5.0	<1.0	11.0			
AB18967	346.00	347.00	210.0	213.0	27.0	<0.5	<5.0	23.0	18.0	16.0	<5.0	<1.0	5.0			

Hole No. PE-87-3

Page No.

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:49:20

SAMPLE ID # A813801

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87 FIELD NUMBER : PROJECT # 1117  
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 NIS : 092813 PROJECT : PF OPTION  
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 SAMPLE TYPE : DRILL HOLE DDH : PF-87-1 START DEPTH : 4.50 END DEPTH : 4.70

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : FRACTURE CONTROLLED, CARBONATIZATION, MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLEBS. <1% .PYRITE.  
 FORMATION :

SAMPLED BY : B. MONEY. DATE : 09-MAY-87 ANALYTICAL  
 ANALYZED BY : XRAL DATE : 24-JUN-87 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORXS	CLASSIFICATIONS AND INDICES							
SiO2	71.60	74.06	68.81	Q	34.28	NA2O+K2O	4.89	SiO2	74.06	SUBALKALINE		
Al2O3	11.60	12.00	13.14	C	1.40	OLA	9.08	Na*	29.33	QA	61.59	SUBALKALINE
Fe2O3	3.64	1.84	1.29	OR	0.74	CPX	0.00	CL	0.00	OPX	100.00	SUBALKALINE
FeO	0.00	1.73	1.35	NS	42.95	A	41.76	F	28.92	M	29.31	CALC-ALKALINE
CaO	1.55	1.60	1.60	AN	7.51	AL2O3	12.00	NORM	PLAG	14.88	THOLEIITIC	
MgO	3.32	3.43	4.76	LC	0.00	AN	14.66	AB*	83.90	OR	1.44	K-POOR SERIES
Na2O	4.61	4.77	8.59	NE	0.00	CI	12.98	NORM	PLAG	14.88	DACITE	
K2O	0.11	0.12	0.15	KP	0.00	JENSEN	CALC-ALKALINE	ANDESITE				
FeO2	0.26	0.29	0.20	AC	0.00	AL	63.19	FE	13.95	MG	22.87	
P2O5	0.07	0.07	0.06	DI	0.00	COLOR INDEX :	12.98					
MnO	0.08	0.08	0.07	HE	0.00	HASHIMOTO INDEX :	35.93					
S	0.00	0.00	0.00	EN	9.51							
NiO	0.00	0.00	0.00	ES	1.13							
CR2O3	0.00	0.00	0.00	ED	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LUI	2.00	0.00	0.00	MT	1.93							
TOTAL	96.68	100.00	100.00	IL	0.40							
				CR	0.00							
				Mn	0.00							
				AP	0.15							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	10.64							
				CPX	0.00							
				AB*	42.95							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 43.00:CU 45.00:ZN 23.00:RB -10.00:SR 124.00:Y 14.00:ZR 63.00:NB 16.00:BA 108.00:

COMMENTS : SILICIFIED DACITIC OR RHYOLITIC CRYSTAL TUFE WITH MINOR PY. AND CARBONATIZATION.

==== FALCONBRIDGE LID ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:50:07

SAMPLE ID # AB13802

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 22.40 END DEPTH : 22.60

FIELD NAME : VOLCANICLASTIC.FELSIC.ASH.QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION :  
 MINERALIZATION : DISSEMINATED AND BLEBS.1-SX.PYRITE.  
 FORMATION :

SAMPLED BY : D. MONEY.  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES				
SiO2	71.20	72.95	67.28	R 28.25	NA2O+K2O	6.50	SiO2	72.95	SUBALKALINE
Al2O3	14.00	14.34	15.59	C 1.05					
Fe2O3	2.39	1.82	1.27	QR 4.53	OLA	3.93	NEA 36.64	QA 59.43	SUBALKALINE
FeO	0.00	0.56	0.43	AB 51.20					
CaO	1.77	1.81	1.79	AN 8.49	CPX	0.00	GL 0.00	OPX 100.00	SUBALKALINE
MgO	1.56	1.60	2.20	LC 0.00					
Na2O	5.59	5.73	10.24	NE 0.00	A	63.08	F 21.40	M 15.52	CALC-ALKALINE
K2O	0.75	0.77	0.91	KP 0.00					
TiO2	0.28	0.29	0.20	AC 0.00	AL2O3	14.34	NORM PLAG	14.23	CALC-ALKALINE
P2O5	0.07	0.07	0.06	DI 0.00					
MnO	0.05	0.05	0.04	HE 0.00	AN	13.22	ABA 79.73	OR 7.05	K-POOR SERIES
S	0.00	0.00	0.00	EN 4.39					
NiO	0.00	0.00	0.00	FS 0.00	CI	6.33	NORM PLAG	14.23	DACITE
Cr2O3	0.00	0.00	0.00	FO 0.00					
CO2	0.00	0.00	0.00	FA 0.00					
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN	CALC-ALKALINE DACITE			
H2O-	0.00	0.00	0.00	LN 0.00	AL	79.04	FE 9.83	MG 11.14	
LOI	1.39	0.00	0.00	MT 0.82					
				IL 0.40					
TOTAL	97.60	100.00	100.00	CR 0.00	COLOR INDEX :	6.33			
				HM 0.72	HASHIMOTO INDEX :	23.89			
				AP 0.15					
				PD 0.00					
				NS 0.00					
				KS 0.00					
				RU 0.00					
				AG 0.00					
				OL 0.00					
				OPX 4.39					
				CPX 0.00					
				ABA 51.20					

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 25.00:CU 22.00:ZN 14.00:RB 21.00:SR 263.00:Y -10.00:ZR 74.00:NB -10.00:BA 333.00:

COMMENTS : RHYOLITIC QTZ. AND FELDSPAR CRYSTAL TUFF WITH MINOR EPIDOTE-CARBONATE VEINS AND 1.5% PY CUBES.

==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:50:52

SAMPLE ID # AB13803

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87

TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DBH : PF-87-1 START DEPTH : 11.30 END DEPTH : 11.50

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.LAPILLI.FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION :  
 MINERALIZATION : DISSEMINATED AND BLSRS.<1X .PYRITE.  
 FORMATION :

SAMPLED BY : D. MONEY.  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS		CLASSIFICATIONS AND INDICES						
		ANHYDROUS WT %	ANHYDROUS CATION %									
SiO2	53.20	56.79	51.94	Q	7.15	NA2O+K2O	4.95	SiO2	56.79	SUBALKALINE		
Al2O3	17.40	18.58	20.02	C	4.05							
Fe2O3	8.17	2.46	1.69	DR	1.93	OL*	24.47	NE*	34.42	Q*	41.11	SUBALKALINE
FeO	0.00	5.64	4.31	AB	40.98							
CaO	3.77	4.02	3.94	AN	18.48	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	5.94	6.34	8.64	LC	0.00							
Na2O	4.33	4.62	8.20	NE	0.00	A	25.88	F	41.00	M	33.13	THOLEIITIC
K2O	0.31	0.33	0.39	KP	0.00							
TiO2	0.80	0.25	0.59	AC	0.00	Al2O3	18.58	NORM	PLAG	31.08		CALC-ALKALINE
P2O5	0.18	0.19	0.15	DI	0.00							
MnO	0.16	0.17	0.13	HE	0.00	AN	30.10	AB*	66.75	DR	3.15	K-POOR SERIES
S	0.00	0.00	0.00	EN	17.29							
NiO	0.00	0.00	0.00	ES	6.03	CI	27.02	NORM	PLAG	31.08		ANDESITE
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN		CALC-ALKALINE	BASALT			
H2O-	0.00	0.00	0.00	LN	0.00	AL	56.58	EE	19.00	MG	24.42	
LOI	4.08	0.00	0.00	MT	2.53							
				IL	1.17							
TOTAL	93.67	100.00	100.00	CR	0.00	COLOR INDEX :	27.02					
				HM	0.00	HASHIMOTO INDEX :	43.55					
				AP	0.40							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				DL	0.00							
				OPX	23.31							
				CPX	0.00							
				AB*	40.98							

TRACE ELEMENTS (P.P.M.) AU,RE,PI,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 30.00:CU 27.00:ZN 29.00:RB 20.00:SR 270.00:Y 20.00:ZR 50.00:NB 20.00:BA 130.00:

COMMENTS : EPIDOTE LAPILLI AFTER FELDSPAR IN FINE GRAINED INTERMEDIATE MATRIX.

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:51:36

SAMPLE ID # AB13804

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87 FIELD NUMBER : PROJECT # 1117  
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 NTS : 092813 PROJECT : PE OPTION  
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 SAMPLE TYPE : DRILL HOLE DDH : PE-87-1 START DEPTH : 31.70 END DEPTH : 31.90

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI. LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : FRACTURE CONTROLLED, CARBONATIZATION, WEAK.  
 MINERALIZATION : DISSEMINATED AND BLESS, 1-5% PYRITE.  
 FORMATION :

SAMPLED BY : D. MONEY.  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	52.10	55.73	51.42	Q	8.01	NA20+K20	4.34	SiO2	55.73	SUBALKALINE		
Al2O3	17.60	18.83	20.47	C	3.60							
Fe2O3	9.09	2.54	1.76	OR	2.33	OLA	25.98	NE*	31.96	Q*	42.06	SUBALKALINE
FED	0.00	6.47	4.99	AB	35.30							
CaO	4.71	5.04	4.98	AN	23.37	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	5.37	5.74	7.90	LC	0.00							
Na2O	3.69	3.95	7.06	NI	0.00	A	23.06	F	46.45	M	30.50	THOLEITIC
K2O	0.37	0.40	0.47	KP	0.00							
TiO2	0.87	0.93	0.65	AC	0.00	AL2O3	18.83	NORM	PLAG	39.83		CALC-ALKALINE
P2O5	0.22	0.24	0.18	DI	0.00							
MnO	0.14	0.15	0.12	HE	0.00	AN	38.31	AB*	57.87	OR	3.82	K-FGOR SERIES
S	0.00	0.00	0.00	EM	15.80							
NiO	0.00	0.00	0.00	ES	7.16	CI	26.89	NORM	PLAG	39.83		ANDESITE
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	EA	0.00							
H2O+	0.00	0.00	0.00	WQ	0.00	JENSEN		CALC-ALKALINE	BASALT			
H2O-	0.00	0.00	0.00	LN	0.00	AL	57.05	FE	20.94	HG	22.01	
LOI	4.39	0.00	0.00	HI	2.64							
TOTAL	93.49	100.00	100.00	IL	1.29							
				CR	0.00	COLOR INDEX :	26.89					
				HH	0.00	HASHIMOTO INDEX :	40.59					
				AP	0.49							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	22.96							
				CPX	0.00							
				AB*	35.30							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 40.00:CU 244.00:ZN 44.00:RB 20.00:SR 400.00:Y 20.00:ZR 60.00:NB 10.00:BA 150.00:

COMMENTS : FINE GRAINED INTERMEDIATE TUFF WITH UP TO 20% EPIDOTE LAPILLI, MINOR LOCAL QUARTZ LAPILLI.



==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:52:18

SAMPLE ID # A#13805

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 42.30 END DEPTH : 42.50

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.LAPILLI.LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN ,EPIDOTIZATION ,LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLESS,1-5%,PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %									
SI02	58.30	62.02	57.64	Q	18.09	NA20+K20	4.18	SI02	62.02	SUBALKALINE		
AL2O3	15.40	16.38	17.95	C	2.74							
FE2O3	7.78	2.20	1.54	OR	2.21	OLA	20.32	NE*	28.64	Q*	51.04	SUBALKALINE
FE0	0.00	5.47	4.25	AB	34.31							
CA0	3.89	4.14	4.12	AN	19.77	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	4.46	4.74	6.57	LC	0.00							
Na2O	3.58	3.81	6.86	NE	0.00	A	25.54	F	45.49	M	28.98	THOLEIITIC
K2O	0.35	0.37	0.44	KP	0.00							
TI02	0.57	0.61	0.42	AC	0.00	AL2O3	16.38	NORM	PLAG	36.55		CALC-ALKALINE
P2O5	0.12	0.13	0.10	BI	0.00							
MNO	0.13	0.14	0.11	HE	0.00	AN	35.12	AB*	60.96	OR	3.93	K-POOR SERIES
S	0.00	0.00	0.00	EN	13.14							
NiO	0.00	0.00	0.00	FS	6.33	CI	22.63	NORM	PLAG	36.55		ANDESITE
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN		CALC-ALKALINE	BASALT			
H2O-	0.00	0.00	0.00	LN	0.00	AL	58.19	FE	20.50	Mg	21.31	
LOI	3.70	0.00	0.00	MT	2.31							
				IL	0.85							
TOTAL	94.01	100.00	100.00	CR	0.00	COLOR INDEX :	22.63					
				HM	0.00	HASHIMOTO INDEX :	39.17					
				AP	0.27							
				PG	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	19.47							
				CPX	0.00							
				AB*	34.31							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 45.00:CU 49.00:ZN 38.00:RB -10.00:SR 321.00:Y 45.00:ZR 56.00:NB -10.00:BA 193.00:

COMMENTS : ANDESITIC TUFF WITH QIZ + EPIDOTE LAPPILLI

==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:53:00

SAMPLE ID # AB13806

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 52.80 END DEPTH : 53.00

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN . EPIDOTIZATION . LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS. 1-5% PYRITE.  
 FORMATION :

SAMPLED BY : B.P. MONEY  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT Z	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT Z	ANHYDROUS CATION Z		NA2O+K2O		SiO2					
SiO2	49.00	52.99	48.23	Q	2.26	NA2O+K2O	4.74	SiO2	52.99	SUBALKALINE		
AL2O3	18.30	19.79	21.23	C	6.60							
FE2O3	9.87	2.57	1.76	OR	0.63	OLA	30.47	NEA	33.75	QA	35.78	SUBALKALINE
FeO	0.00	7.29	5.55	AB	40.84	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
CaO	3.23	3.49	3.41	AN	15.85							
MgO	7.22	7.81	10.59	LC	0.00	A	21.39	F	43.36	H	35.25	THOLEIITIC
NA2O	4.28	4.63	8.17	NE	0.00	AL2O3	19.79	NORM	PLAG	27.96		CALC-ALKALINE
K2O	0.10	0.11	0.13	KP	0.00	AN	27.65	ABA	71.25	OR	1.10	K-POGR SERIES
TiO2	0.88	0.95	0.65	AC	0.00	CI	33.44	NORM	PLAG	27.96		ANDESITE
P2O5	0.17	0.18	0.14	DI	0.00							
MNO	0.17	0.18	0.14	HE	0.00	JENSEN		CALC-ALKALINE	BASALT			
S	0.00	0.00	0.00	EN	21.18	AL	53.18	FE	20.30	HG	26.53	
NiO	0.00	0.00	0.00	FS	8.31							
CR2O3	0.00	0.00	0.00	FO	0.00	COLOR INDEX :	33.44					
CO2	0.00	0.00	0.00	FA	0.00	HASHIMOTO INDEX :	49.36					
H2O+	0.00	0.00	0.00	WG	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	4.93	0.00	0.00	MT	2.64							
TOTAL	92.47	100.00	100.00	IL	1.30							
				CR	0.00							
				HM	0.00							
				AP	0.38							
				PU	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				UL	0.00							
				OPX	29.50							
				CPX	0.00							
				ABA	40.84							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 40.00:CU 52.00:ZN 44.00:RE -10.00:SR 240.00:Y 20.00:ZR 60.00:NB 10.00:BA 80.00:

COMMENTS : DACITIC TUFF WITH EPIDOTE XTAL

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:53:42

SAMPLE ID # AB13807 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87 FIELD NUMBER : PROJECT # 1117  
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13 PROJECT : PF OPTION  
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 SAMPLE TYPE : DRILL HOLE DDH : PF-87-1 START DEPTH : 67.10 END DEPTH : 67.40

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.LAPILLI.LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN .EPIDOTIZATION .LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY DATE : 09-MAY-87 ANALYTICAL  
 ANALYZED BY : XRAL DATE : 24-JUN-87 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	47.80	51.99	47.57	Q	4.31	NA20+K20	3.81	SI02	51.99	SUBALKALINE		
AL2O3	17.90	19.47	21.00	C	8.79							
FE2O3	11.20	2.49	1.72	OR	1.14	OLA	37.09	NE* 26.73	QA	36.18	SUBALKALINE	
FE0	0.00	8.72	6.67	AW	32.03							
CAO	2.89	3.14	3.08	AN	13.93	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MGO	8.37	9.10	12.41	LC	0.00							
NA20	3.32	3.61	6.41	NE	0.00	A	15.95	F	45.92	M	38.14	THOLEIITIC
K20	0.18	0.20	0.23	KP	0.00							
TIO2	0.79	0.86	0.59	AC	0.00	AL2O3	19.47	NORM	PLAG	30.31		CALC-ALKALINE
P2O5	0.21	0.23	0.18	DI	0.00							
MNO	0.17	0.18	0.14	HE	0.00	AN	29.58	AB* 68.00	OK	2.43		K-POOR SERIES
S	0.00	0.00	0.00	EN	24.83							
NIO	0.00	0.00	0.00	FS	10.73	CI	39.32	NORM	PLAG	30.31		ANDESITE
CR2O3	0.00	0.00	0.00	EG	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN		HIGH MAGNESIUM	THOLEIITIC	BASALT		
H2O-	0.00	0.00	0.00	LN	0.00	AL	49.37	FE	21.45	MG	29.19	
LOI	5.47	0.00	0.00	HT	2.57							
TOTAL	91.94	100.00	100.00	IL	1.18							
				CR	0.00	COLOR INDEX :	39.32					
				HM	0.00	HASHIMOTO INDEX :	57.93					
				AP	0.47							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	35.56							
				CPX	0.00							
				AB*	32.03							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 80.00:CU 45.00:ZN 49.00:RB 10.00:SR 190.00:Y 20.00:ZR 40.00:NB 10.00:BA 90.00:

COMMENTS : DACITIC TUFF WITH EPIDOTE LAPILLI AND TRACE CARBONATE VEINLETS

==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:54:24

SAMPLE ID # AB13808

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87                      FIELD NUMBER :                      PROJECT # 1117  
 TOWNSHIP :                                      LOT : 0    CONCESSION :                      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13                                      PROJECT : PF OPTION  
 UTM ZONE : 10                                      GRID COORDINATES :    E :                      0.0    N :                      0.0    EL :                      0.0  
 SAMPLE TYPE : DRILL HOLE                      DDH : PF-87-1                      START DEPTH :    76.20                      END DEPTH :    76.40

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, EPIDOTIZATION, LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	46.20	50.49	46.11	Q	1.16	NA20+K20	4.51	SiO2	50.49	SUBALKALINE		
Al2O3	18.80	20.55	22.12	C	9.60							
Fe2O3	11.50	2.59	1.78	OR	4.46	OL*	37.71	NE*	28.82	Q*	33.47	SUBALKALINE
FeO	0.00	8.99	6.86	AM	33.18							
CaO	2.57	2.81	2.75	AN	12.47	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	8.02	8.76	11.93	LC	0.00							
Na2O	3.43	3.75	6.64	NE	0.00	A	18.36	F	45.99	M	35.65	THOLEIITIC
K2O	0.70	0.76	0.89	KP	0.00							
TiO2	0.87	0.95	0.65	AC	0.00	AL2O3	20.55	NORM	PLAG	27.32		CALC-ALKALINE
P2O5	0.18	0.20	0.15	DI	0.00							
MnO	0.15	0.16	0.13	HE	0.00	AN	24.89	AB*	66.21	OR	8.90	AVERAGE SERIES
S	0.00	0.00	0.00	EN	23.86							
NiO	0.00	0.00	0.00	ES	10.88	CI	38.72	NORM	PLAG	27.32		ANDESITE
Cr2O3	0.00	0.00	0.00	FD	0.00							
CO2	0.00	0.00	0.00	FA	0.00	JENSEN		CALC-ALKALINE	BASALT			
H2O+	0.00	0.00	0.00	WD	0.00	AL	50.89	EE	21.67	MG	27.45	
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	6.00	0.00	0.00	MT	2.67							
TOTAL	91.51	100.00	100.00	IL	1.31							
				CR	0.00	COLOR INDEX :	38.72					
				HM	0.00	HASHIMOTO INDEX :	59.24					
				AP	0.41							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	34.74							
				CPX	0.00							
				AB*	33.18							

TRACE ELEMENTS (P.P.M.)    AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR    48.00:CU    82.00:ZN    38.00:RB    -10.00:SR    204.00:Y    12.00:ZR    45.00:NB    -10.00:BA    286.00:

COMMENTS : DACITIC TUFF WITH EPIDOTE AND QTZ LAPILLI AND XTALS. CARBONATE AND EPIDOTE VEINLETS. PY IS TRACE TO 2% LOCALLY  
 DISSEM AND FRACTURE CONTROLLED

==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
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 11:55:05

SAMPLE ID # AB13809

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87 FIELD NUMBER : PROJECT # 1117  
 TOWNSHIP : LUT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13 PROJECT : PF OPTION  
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 SAMPLE TYPE : DRILL HOLE DDH : PE-87-1 START DEPTH : 86.70 END DEPTH : 86.80

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES					
	ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %							
SiO2	53.90	57.91	Q 5.11	NA20+K20	6.47	SiO2	57.91	SUBALKALINE	
Al2O3	17.20	18.48	C 4.91	OL*	20.10	NE*	40.02	GA 39.88	SUBALKALINE
Fe2O3	8.91	2.37	OR 3.13	CPX	0.00	OL	0.00	OPX 100.00	SUBALKALINE
FeO	0.00	6.48	AB 52.37	A	32.15	F	42.81	M 35.04	THOLEITIC
CaO	2.05	2.20	AN 9.57	AL2O3	18.48	NORM	PLAG	15.45	CALC-ALKALINE
MgO	4.69	5.04	LC 0.00	AN	14.71	ABA*	80.48	OR 4.80	K-POOR SERIES
Na2O	5.52	5.93	NE 0.00	CI	24.53	NORM	PLAG	15.45	ANDESITE
K2O	0.50	0.54	KP 0.00	JENSEN CALC-ALKALINE BASALT					
TiO2	0.71	0.76	AC 0.00	AL	58.62	FE	21.17	MG 20.21	
P2O5	0.17	0.18	DI 0.00	COLOR INDEX : 24.53					
MnO	0.10	0.11	HE 0.00	HASHIMOTO INDEX : 40.67					
S	0.00	0.00	EN 13.68						
NiO	0.00	0.00	FS 7.36						
Cr2O3	0.00	0.00	FO 0.00						
CO2	0.00	0.00	EA 0.00						
H2O+	0.00	0.00	WO 0.00						
H2O-	0.00	0.00	LN 0.00						
LOI	5.00	0.00	MT 2.44						
TOTAL	93.08	100.00	IL 1.05						
			CR 0.00						
			HM 0.00						
			AP 0.38						
			PO 0.00						
			NS 0.00						
			KS 0.00						
			RU 0.00						
			AG 0.00						
			OL 0.00						
			OPX 21.05						
			CPX 0.00						
			ABA 52.37						
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)									
CR	41.00:CU	214.00:ZN	41.00:RB	23.00:SR	230.00:Y	-10.00:ZR	46.00:NB	13.00:BA 228.00:	

COMMENTS : SAME AS AB13808

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:55:47

SAMPLE ID # AB13810

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NIS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 99.90 END DEPTH : 100.15

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH, QUARTZ PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	72.30	74.60	69.24	Q	33.32	NA20+K20	6.25	SiO2	74.60	SUBALKALINE		
Al2O3	13.20	13.62	14.90	C	2.21							
Fe2O3	2.57	1.82	1.27	OR	6.30	OLA	3.62	NEA	33.33	QA	63.06	SUBALKALINE
FeO	0.00	0.75	0.58	AB	46.69							
CaO	1.10	1.13	1.13	AN	5.24	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	1.42	1.47	2.03	LC	0.00							
Na2O	5.03	5.19	9.34	NE	0.00	A	61.88	F	23.61	M	14.50	CALC-ALKALINE
K2O	1.03	1.06	1.26	KP	0.00							
TiO2	0.26	0.27	0.19	AC	0.00	AL2O3	13.62	NORM	PLAG	10.09	CALC-ALKALINE	
P2O5	0.06	0.06	0.05	DI	0.00							
MnO	0.03	0.03	0.02	HE	0.00	AN	8.99	AB*	80.19	OR	10.82	AVERAGE SERIES
S	0.00	0.00	0.00	EN	4.05							
NiO	0.00	0.00	0.00	ES	0.00	CI	6.12	NORM	PLAG	10.09	RHYOLITE	
Cr2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	CALC-ALKALINE DACITE					
H2O-	0.00	0.00	0.00	LN	0.00	AL	78.46	FE	10.67	MG	10.67	
LOI	1.93	0.00	0.00	MT	1.26							
				IL	0.37							
TOTAL	96.92	100.00	100.00	CR	0.00	COLOR INDEX :	6.12					
				HM	0.43	HASHIMOTO INDEX :	28.55					
				AP	0.13							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	4.05							
				CPX	0.00							
				AB*	46.69							
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
CR	24.00:CU	29.00:ZN	-10.00:RB	29.00:SR	146.00:Y	-10.00:ZR	101.00:NB	-10.00:BA	378.00:			

COMMENTS : MASSIVE QIZ EYE RHYOLITE TUFF WITH SZ 5-8 MM QIZ EYES AND APPROX 10% ESPAR XIALS

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:56:29

SAMPLE ID # AB13811

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 111.10 END DEPTH : 111.20

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN CARBONATIZATION.  
 MINERALIZATION : DISSEMINATED AND BLENDS,<1% .PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 09-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	46.00	50.09	46.41	Q	4.87	NA20+K20	3.18	SI02	50.09	SUBALKALINE		
AL203	18.40	20.04	21.88	C	8.41	OLA	44.12	NE*	19.87	OA	36.01	SUBALKALINE
FE203	12.20	2.66	1.85	OR	5.61	CPX	0.00	OL	0.00	GPX	100.00	SUBALKALINE
FE0	0.00	9.56	7.41	AB	20.05	A	13.41	F	50.41	M	36.18	THOLEIITIC
CA0	4.08	4.44	4.41	AN	20.84	AL203	20.04	NORM	PLAG	50.97	CALC-ALKALINE	
MGO	7.88	8.58	11.85	LC	0.00	AN	44.82	AB*	43.12	OR	12.06	AVERAGE SERIES
NA20	2.05	2.23	4.01	NE	0.00	CI	39.82	NORM	PLAG	50.97	BASALT	
K20	0.87	0.95	1.12	KP	0.00	JENSEN HIGH MAGNESIUM THOLEIITIC BASALT						
TIO2	0.94	1.02	0.71	AC	0.00	AL	49.85	FE	23.16	MG	26.99	
P205	0.17	0.19	0.15	DI	0.00	COLOR INDEX : 39.82						
MNO	0.22	0.24	0.19	HE	0.00	HASHIMOTO INDEX : 58.80						
S	0.00	0.00	0.00	EN	23.70							
NIO	0.00	0.00	0.00	ES	11.92							
CR203	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H20+	0.00	0.00	0.00	WQ	0.00							
H20-	0.00	0.00	0.00	LN	0.00							
LOI	5.39	0.00	0.00	MT	2.78							
TOTAL	91.83	100.00	100.00	IL	1.43							
				CR	0.00							
				HM	0.00							
				AP	0.39							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	35.62							
				CPX	0.00							
				AB*	20.05							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,MG (P.P.B.)

CR 90.00:CU 422.00:ZN 90.00:RB 10.00:SR 210.00:Y 10.00:ZR 40.00:NB 10.00:BA 240.00:

COMMENTS :

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:57:10

SAMPLE ID # AB13812

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DBH : PF-87-1 START DEPTH : 122.40 END DEPTH : 122.60

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.LAPILLI.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS.<1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES						
SiO2	49.70	53.55	49.71	Q 6.66	NA20+K2O	3.52	SiO2	53.55	SUBALKALINE		
Al2O3	17.50	18.85	20.63	C 2.71	OLA	34.23	Na*	25.77	Q*	39.99	SUBALKALINE
Fe2O3	9.97	2.53	1.77	OR 4.34	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
FeO	0.00	7.39	5.74	AB 25.11	A	17.89	F	49.07	M	33.04	THOLEIITIC
CaO	5.89	6.35	6.31	AN 30.08	AL2O3	18.85	NORM	PLAG	54.50	CALC-ALKALINE	
MgO	6.04	6.51	9.00	LC 0.00	AN	50.52	AB*	42.18	OR	7.30	AVERAGE SERIES
Na2O	2.59	2.79	5.02	NE 0.00	CI	30.62	NORM	PLAG	54.50	BASALT	
K2O	0.68	0.73	0.87	KP 0.00	JENSEN CALC-ALKALINE BASALT						
TiO2	0.85	0.92	0.64	AC 0.00	AL	54.43	FE	21.82	HG	23.75	
P2O5	0.21	0.23	0.18	DI 0.00	COLOR INDEX : 30.62						
MnO	0.15	0.16	0.13	HE 0.00	HASHIMOTO INDEX : 44.21						
S	0.00	0.00	0.00	EN 18.01							
NiO	0.00	0.00	0.00	FS 8.68							
CR2O3	0.00	0.00	0.00	EO 0.00							
CO2	0.00	0.00	0.00	EA 0.00							
H2O+	0.00	0.00	0.00	WO 0.00							
H2O-	0.00	0.00	0.00	LN 0.00							
LOI	4.77	0.00	0.00	MT 2.65							
TOTAL	92.82	100.00	100.00	IL 1.28							
				CR 0.00							
				HM 0.00							
				AP 0.47							
				PU 0.00							
				NS 0.00							
				KS 0.00							
				RU 0.00							
				AG 0.00							
				OL 0.00							
				OPX 26.69							
				CPX 0.00							
				AB* 25.11							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.M.)

CR 80.00:CU 317.00:ZN 42.00:RB 18.00:SR 337.00:Y 20.00:ZR 29.00:NB 26.00:BA 161.00:

COMMENTS : INTERMED TUFF WITH EPIDOTE LAPILLI AND XTALS, MINOR QIZ XTALS. MINOR CARBONATE ALTERATION



REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:57:54

SAMPLE ID # AB13813

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-1 START DEPTH : 132.90 END DEPTH : 133.10

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT Z	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT Z	ANHYDROUS CATION Z									
SI02	45.00	50.02	46.74	Q	2.64	NA20+K20	1.64	SI02	50.02	SUBALKALINE		
AL203	15.70	17.45	19.22	C	0.00	OLA	38.88	NEA	24.36	GA	36.76	SUBALKALINE
FE203	9.05	2.40	1.69	OR	0.46	CPX	52.34	OL	0.00	OPX	47.66	SUBALKALINE
FE0	0.00	6.89	5.39	AB	14.20	A	9.31	F	51.20	M	39.49	THOLEIITIC
CA0	12.00	13.34	13.36	AN	40.73	AL203	17.45	NORM	PLAG	74.15	THOLEIITIC	
MGO	6.28	6.98	9.72	LC	0.00	AN	73.53	ABA	25.63	OR	0.84	AVERAGE SERIES
NA20	1.41	1.57	2.84	NE	0.00	CI	41.59	NORM	PLAG	74.15	BASALT	
K20	0.07	0.08	0.09	KP	0.00	JENSEN	ALC-ALKALINE	BASALT				
TI02	0.66	0.73	0.52	AC	0.00	AL	52.20	FE	21.40	MG	26.40	
P205	0.16	0.18	0.14	DI	13.78	COLOR INDEX :	41.59	HASHIMOTO INDEX :	32.14			
MNO	0.33	0.37	0.29	HE	6.12							
S	0.00	0.00	0.00	EN	12.55							
NIO	0.00	0.00	0.00	ES	5.57							
CR203	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H20+	0.00	0.00	0.00	WO	0.00							
H20-	0.00	0.00	0.00	LN	0.00							
LOI	6.08	0.00	0.00	HI	2.53							
				IL	1.03							
TOTAL	89.97	100.00	100.00	CR	0.00							
				HM	0.00							
				AP	0.38							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	18.12							
				CPX	19.91							
				ABA	14.20							
TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)												
CR	180.00:CU	392.00:ZN	67.00:RB	-10.00:SR	390.00:Y	-10.00:ZR	10.00:NB	20.00:BA	50.00:			

COMMENTS : SAME AS AB13812

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:58:40

SAMPLE ID # A#13814

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :  
 DDH : PE-87-1

PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 N : 0.0  
 START DEPTH : 146.45  
 END DEPTH : 146.60

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLESS.<IX .PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %									
SiO2	50.60	53.95	49.76	Q	4.23	NA20+K20	3.67	SiO2	53.95	SUBALKALINE			
Al2O3	17.70	18.87	20.52	C	0.00								
Fe2O3	8.54	2.45	1.70	OR	0.75	OLA	29.15	NEA	32.35	QA	38.50	SUBALKALINE	
FeO	0.00	5.99	4.62	AN	31.65								
CaO	7.23	7.71	7.62	AN	35.09	CPX	5.35	OL	0.00	OPX	94.65	SUBALKALINE	
MgO	5.75	6.13	8.43	LC	0.00								
Na2O	3.32	3.54	6.33	NE	0.00	A	20.39	F	45.54	M	34.08	THOLEIITIC	
K2O	0.12	0.13	0.15	KP	0.00								
TiO2	0.80	0.85	0.59	AC	0.00	AL2O3	18.87	NORM	PLAG	52.58		CALC-ALKALINE	
P2O5	0.20	0.21	0.17	DI	0.93								
MnO	0.15	0.16	0.12	HE	0.36	AN	51.99	ABA	46.89	OR	1.12	K-POOR SERIES	
S	0.00	0.00	0.00	EN	16.39								
NiO	0.00	0.00	0.00	ES	6.42	CI	27.83	NORM	PLAG	52.58		BASALT	
CR2O3	0.00	0.00	0.00	FO	0.00								
CO2	0.00	0.00	0.00	FA	0.00								
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN		CALC-ALKALINE	BASALT				
H2O-	0.00	0.00	0.00	LN	0.00	AL	57.02	FE	19.56	MG	23.42		
LOI	3.77	0.00	0.00	HT	2.55								
				IL	1.18								
TOTAL	93.78	100.00	100.00	CR	0.00	COLOR INDEX :						27.83	
				HM	0.00	HASHIMOTO INDEX :							35.75
				AP	0.44								
				PO	0.00								
				NS	0.00								
				KS	0.00								
				RU	0.00								
				AG	0.00								
				OL	0.00								
				OPX	22.81								
				CPX	1.29								
				ABA	31.65								

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 80.00:CU 174.00:ZN 40.00:RB -10.00:SR 510.00:Y 10.00:ZR 30.00:NB 10.00:BA 50.00:

COMMENTS : ESPAR XTAL TUFF WITH 20% ESPAR TO EPIDOTE CRYSTALS AND MINOR EPID-CARB VEINING

==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 11:59:21

SAMPLE ID # AB13815

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0      CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      PROJECT : PF OPTION  
 UTM ZONE : 10      GRID COORDINATES :      E :      0.0      N :      0.0      EL :      0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PF-87-1      START DEPTH : 155.90      END DEPTH : 156.10

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS.<1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES						
SiO2	48.70	53.43	49.98	Q 8.11	NA20+K20	1.94	SiO2	53.43	SUBALKALINE		
Al2O3	15.80	17.33	19.11	C 0.00							
Fe2O3	9.16	2.34	1.65	OR 0.39	OL*	34.97	NE*	21.68	Q*	43.35	SUBALKALINE
FeO	0.00	6.94	5.43	AB 17.01							
CaO	9.51	10.43	10.46	AN 39.08	CPX	30.52	OL	0.00	OPX	69.48	SUBALKALINE
MgO	5.97	6.55	9.13	LC 0.00							
Na2O	1.71	1.88	3.40	NE 0.00	A	11.07	F	51.57	M	37.35	THOLEIITIC
K2O	0.06	0.07	0.08	KP 0.00							
TiO2	0.63	0.69	0.49	AC 0.00	AL2O3	17.33	NORM	PLAG	69.67	THOLEIITIC	
P2O5	0.16	0.18	0.14	DI 6.58							
MnO	0.15	0.16	0.13	HE 3.06	AN	69.19	AB*	30.12	OR	0.70	K-POOR SERIES
S	0.00	0.00	0.00	EN 14.97							
NiO	0.00	0.00	0.00	FS 6.97	CI	35.03	NORM	PLAG	69.67	BASALT	
CR2O3	0.00	0.00	0.00	FO 0.00							
CO2	0.00	0.00	0.00	EA 0.00							
H2O+	0.00	0.00	0.00	WD 0.00	JENSEN	CALC-ALKALINE BASALT					
H2O-	0.00	0.00	0.00	LN 0.00	AL	53.19	FE	21.40	MG	25.41	
LOI	4.77	0.00	0.00	MT 2.47							
				IL 0.97							
TOTAL	91.15	100.00	100.00	CR 0.00	COLOR INDEX :	35.03					
				HM 0.00	HASHIMOTO INDEX :	34.96					
				AP 0.37							
				PO 0.00							
				NS 0.00							
				KS 0.00							
				RU 0.00							
				AG 0.00							
				OL 0.00							
				OPX 21.95							
				CPX 9.64							
				AB* 17.01							

TRACE ELEMENTS (P.P.M.) AU,RE,PI,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 150.00:CU 102.00:ZN 44.00:RB 20.00:SR 450.00:Y 20.00:ZR 10.00:NB 20.00:BA 30.00:

COMMENTS : SEE AB13814

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:00:02

SAMPLE ID # AB13816

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-1 START DEPTH : 166.10 END DEPTH : 166.30

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND FLEBS. <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. HONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES					
SI02	53.70	57.25	52.44	Q 12.81	NA20+K20	4.15	SI02	57.25	SUBALKALINE	
AL2O3	16.90	18.02	19.45	C 9.33						
FE2O3	9.16	2.49	1.72	OR 2.68	OL*	30.18	NE*	25.78	QA 44.05	SUBALKALINE
FE0	0.00	6.54	5.01	AB 32.75	CPX	0.00	OL	0.00	OPX 100.00	SUBALKALINE
CAO	1.66	1.77	1.74	AN 7.58						
MGO	8.03	8.56	11.69	LC 0.00	A	19.29	F	40.88	M 39.83	THOLEIITIC
NA2O	3.46	3.69	6.55	NE 0.00	AL2O3	18.02	NORM	PLAG	18.79	CALC-ALKALINE
K2O	0.43	0.46	0.54	KP 0.00	AN	17.62	AB*	76.14	OR 6.23	K-POOR SERIES
TIO2	0.84	0.90	0.62	AC 0.00	CI	34.49	NORM	PLAG	18.79	ANDESITE
P2O5	0.16	0.17	0.13	DI 0.00						
MNO	0.14	0.15	0.12	HE 0.00						
S	0.00	0.00	0.00	EN 23.37						
NIO	0.00	0.00	0.00	ES 7.30						
CR2O3	0.00	0.00	0.00	FO 0.00	JENSEN		CALC-ALKALINE	BASALT		
CO2	0.00	0.00	0.00	FA 0.00	AL	50.39	FE	19.34	MG 30.27	
H2O+	0.00	0.00	0.00	WO 0.00						
H2O-	0.00	0.00	0.00	LN 0.00						
LOI	4.24	0.00	0.00	MT 2.58						
				IL 1.23						
TOTAL	93.80	100.00	100.00	CR 0.00	COLOR INDEX :	34.49				
				HM 0.00	HASHIMOTO INDEX :	62.30				
				AP 0.35						
				PO 0.00						
				NS 0.00						
				KS 0.00						
				RU 0.00						
				AG 0.00						
				OL 0.00						
				OPX 30.68						
				CPX 0.00						
				AB* 32.75						
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)										
CR	102.00:CU	44.00:ZN	52.00:RB	-10.00:SR	135.00:Y	14.00:ZR	38.00:NB	25.00:BA	134.00:	

COMMENTS : SEE AB13814

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:00:43

SAMPLE ID # AB13817

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092R13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-1 START DEPTH : 174.90 END DEPTH : 175.10

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLENDS.<1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	59.40	62.61	57.23	Q	15.06	NA2O+K2O	6.06	SI02	62.61	SUBALKALINE		
AL2O3	16.70	17.60	18.97	C	5.67	OLA	16.43	NEA	35.22	QA	48.35	SUBALKALINE
FE2O3	6.17	2.26	1.55	OR	5.35	CPX	0.00	OL	0.00	DPX	100.00	SUBALKALINE
FE0	0.00	3.82	2.92	AB	45.58	A	35.93	F	34.69	M	29.37	ANDESIITIC
CAO	1.69	1.78	1.74	AN	7.77	AL2O3	17.60	NORM	PLAG	14.57	CALC-ALKALINE	
MGO	4.70	4.95	6.75	LC	0.00	AN	13.24	ABA	77.64	OR	9.12	AVERAGE SERIES
NA2O	4.88	5.14	9.12	NE	0.00	CI	20.26	NORM	PLAG	14.57	DACITE	
K2O	0.87	0.92	1.07	KP	0.00	JENSEN	CALC-ALKALINE ANDESITE					
TI02	0.64	0.67	0.46	AC	0.00	AL	61.73	FE	16.31	MG	21.97	
P2O5	0.14	0.15	0.11	DI	0.00	COLOR INDEX :	20.26					
HNO	0.09	0.09	0.07	HE	0.00	HASHIMOTO INDEX :	45.88					
S	0.00	0.00	0.00	EN	13.50							
NiO	0.00	0.00	0.00	FS	3.51							
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	EA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	2.93	0.00	0.00	MT	2.33							
TOTAL	94.88	100.00	100.00	IL	0.93							
				CR	0.00							
				HH	0.00							
				AP	0.30							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				DPX	17.01							
				CPX	0.00							
				ABA	45.58							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 50.00:CU 50.00:ZN 38.00:RB 10.00:SR 180.00:Y 20.00:ZR 80.00:NB 20.00:BA 200.00:

COMMENTS : SEE AB13814

==== FALCONBRIDGE LTD ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:01:24

SAMPLE ID # A613818

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 189.40 END DEPTH : 189.60

FIELD NAME : PLUTONIC,FELSIC OR LEUCOCRATIC .MEDIUM,QUARTZ AND FELDSPAR PORPHYRITIC.MASSIVE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %									
SiO2	75.60	76.86	70.83	Q	32.24	NA20+K20	6.85	SiO2	76.86	SUBALKALINE			
AL2O3	12.40	12.61	13.69	C	0.51								
FE2O3	1.34	1.36	0.94	OR	4.43	OL*	3.06	NE*	36.16	GA	60.78	SUBALKALINE	
FeO	0.00	0.00	0.00	AB	54.49								
CaO	0.75	0.76	0.75	AM	3.50	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE	
MgO	1.32	1.34	1.84	LC	0.00								
NA2O	6.00	6.10	10.90	NE	0.00	A	72.74	F	13.01	M	14.25	CALC-ALKALINE	
K2O	0.74	0.75	0.89	KP	0.00								
TiO2	0.17	0.17	0.12	AC	0.00	AL2O3	12.61	NORM	PLAG	6.03	CALC-ALKALINE		
P2O5	0.04	0.04	0.03	DI	0.00								
MNO	0.00	0.00	0.00	HE	0.00	AN	5.61	ABA	87.30	OR	7.09	K-POOR SERIES	
S	0.00	0.00	0.00	EN	3.69								
NiO	0.00	0.00	0.00	FS	0.00	CI	4.63	NORM	PLAG	6.03	RHYOLITE		
CR2O3	0.00	0.00	0.00	FO	0.00								
CO2	0.00	0.00	0.00	EA	0.00								
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	CALC-ALKALINE RHYOLITE						
H2O-	0.00	0.00	0.00	LN	0.00	AL	82.49	FE	6.41	MG	11.10		
LOI	0.93	0.00	0.00	MT	0.00								
				IL	0.00								
TOTAL	98.36	100.00	100.00	CR	0.00	COLOR INDEX :	4.63						
				HM	0.94	HASHINGTO INDEX :	23.38						
				AP	0.08								
				PO	0.00								
				NS	0.00								
				KS	0.00								
				RU	0.12								
				AG	0.00								
				OL	0.00								
				OPX	3.69								
				CPX	0.00								
				ABA	54.49								

TRACE ELEMENTS (P.P.M.) AU,RE,PI,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-5.00:BE	2.00:B	10.00:SC	2.80:V	24.00:CR	4.00:MN	200.00:CO	3.00:NI	4.00:
CU	2.50:ZN	21.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:RB	16.00:SR	97.00:Y	18.00:
ZR	85.00:NB	-10.00:MO	-5.00:AG	-0.50:CD	-1.00:SB	-0.20:CS	-0.50:BA	323.00:LA	19.10:
CE	25.00:ND	-5.00:SH	-1.50:EU	0.60:TB	-0.50:YB	1.40:LU	0.31:HE	2.10:TA	-1.00:
H	-3.00:IR	-2.00:PB	-2.00:TH	6.80:U	2.30:				

COMMENTS : QTZ-FSPAR PORPHYRY PROBABLY A DYKE OR SILL, COULD BE VOLCANIC , SALTSRING INT?



REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:02:50

SAMPLE ID # AB13820

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 210.90 END DEPTH : 211.00

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE.  
 FINAL NAME :  
 ALTERATION : FRACTURE CONTROLLED, CARBONATIZATION.  
 MINERALIZATION : DISSEMINATED AND BLENDS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	48.10	51.84	49.73	Q	12.51
AL2O3	14.20	15.30	17.30	C	0.00
FE2O3	12.70	3.93	2.84	OR	0.40
FE0	0.00	8.78	7.04	AB	12.93
CAO	9.94	10.71	11.01	AM	36.60
MGO	4.71	5.08	7.26	LC	0.00
NA2O	1.29	1.39	2.59	NE	0.00
K2O	0.06	0.06	0.08	KP	0.00
TIO2	2.15	2.32	1.67	AC	0.00
P2O5	0.34	0.37	0.30	DI	8.14
MNO	0.21	0.23	0.18	HE	4.64
S	0.00	0.00	0.00	EN	10.44
NIO	0.00	0.00	0.00	ES	5.95
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	EA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	4.47	0.00	0.00	HT	4.26
				IL	3.34
TOTAL	92.79	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.79
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	16.39
				CPX	12.78
				ABA	12.93

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.45 SI02 51.84 SUBALKALINE  
 OLA 29.39 NEA 18.54 OLA 52.07 SUBALKALINE  
 CPX 43.81 OL 0.00 OPX 56.19 SUBALKALINE  
 A 7.72 F 65.35 M 26.93 THOLEIITIC  
 AL2O3 15.30 NORM PLAG 73.90 THOLEIITIC  
 AN 73.31 ABA 25.90 OR 0.79 AVERAGE SERIES  
 CI 36.77 NORM PLAG 73.90 BASALT  
 JENSEN HIGH IRON THOLEIITIC BASALT  
 AL 47.67 FE 32.33 MG 19.99

COLOR INDEX : 36.77  
 HASHIMOTO INDEX : 29.81

TRACE ELEMENTS (P.P.M.) AU, RE, PI, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 30.00:CU 17.00:ZN 82.00:RB 10.00:SR 490.00:Y 20.00:ZR 130.00:NB 20.00:BA 40.00:

COMMENTS : SEE AB13819



==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:03:32

SAMPLE ID # AB13821

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NIS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 217.70 END DEPTH : 217.90

FIELD NAME : VOLCANIC.INTERMEDIATE.MEDIUM.MASSIVE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN .LOOK AT COMMENTS.  
 MINERALIZATION : NIL .NIL .LOOK AT COMMENTS FILE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 11-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SiO2	46.80	51.05	48.56	Q	8.75
Al2O3	14.50	15.82	17.73	C	0.00
Fe2O3	12.70	4.22	3.02	QR	0.53
FeO	0.00	8.67	6.89	AB	20.62
CaO	8.41	9.17	9.35	AN	33.76
MgO	5.08	5.54	7.86	LC	0.00
Na2O	2.05	2.24	4.12	NE	0.00
K2O	0.08	0.09	0.11	KP	0.00
TiO2	2.37	2.59	1.85	AC	0.00
P2O5	0.37	0.40	0.33	DI	5.58
MnO	0.20	0.22	0.18	HE	3.64
S	0.00	0.00	0.00	EN	12.92
NiO	0.00	0.00	0.00	FS	6.10
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	3.85	0.00	0.00	MI	4.53
TOTAL	91.68	100.00	100.00	IL	3.70
				CR	0.00
				HM	0.00
				AP	0.87
				PO	0.00
				NS	0.00
				KS	0.00
				XU	0.00
				AG	0.00
				OL	0.00
				OPX	19.02
				CPX	8.22
				ABA	20.62

CLASSIFICATIONS AND INDICES						
NA2O+K2O	2.32	SiO2	51.05	SUBALKALINE		
OL*	29.48	NE*	25.57	Q*	44.95	SUBALKALINE
CPX	30.18	OL	0.00	OPX	69.82	SUBALKALINE
A	11.43	F	61.31	M	27.26	THOLEIITIC
AL2O3	15.82	NORM	PLAG	62.08	THOLEIITIC	
AN	61.48	ABA	37.55	OR	0.97	K-POOR SERIES
CI	35.48	NORM	PLAG	62.08	BASALT	
JENSEN HIGH IRON THOLEIITIC BASALT						
AL	47.25	FE	31.82	HG	20.93	
COLOR INDEX : 35.48						
HASHIMOTO INDEX : 33.03						

TRACE ELEMENTS (P.P.M.) AU,RE,PI,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 30.00:CU 25.00:ZN 87.00:RB -10.00:SR 430.00:Y 10.00:ZR 140.00:NB 20.00:BA 40.00:

COMMENTS : SEE AB13819

==== FALCONBRIDGE LTD =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:04:13

SAMPLE ID # AB13822

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NIS : 092W13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-1 START DEPTH : 222.80 END DEPTH : 222.90

FIELD NAME : OTHER ,LOOK AT COMMENTS.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 11-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %									
SiO2	50.80	54.18	49.23	Q	0.00	NA20+K20	5.21	SiO2	54.18	SUBALKALINE			
AL2O3	17.50	18.67	19.99	C	2.17	OLA	27.93	NEA	37.68	GA	34.39	SUBALKALINE	
FE2O3	8.93	2.45	1.68	OR	0.74	CPX	0.00	OL	0.35	OPX	99.65	SUBALKALINE	
FeO	0.00	6.36	4.83	AB	44.71	A	24.85	F	40.92	M	34.22	THOLEIITIC	
CaO	4.44	4.74	4.61	AN	21.82	AL2O3	18.67	NORM	PLAG	32.79	CALC-ALKALINE		
MgO	6.72	7.17	9.70	LC	0.00	AN	32.43	ABA	66.46	OR	1.10	K-POOR SERIES	
NA2O	4.76	5.08	8.94	NE	0.00	CI	30.17	NORM	PLAG	32.79	ANDESITE		
K2O	0.12	0.13	0.15	KP	0.00	JENSEN CALC-ALKALINE BASALT							
TiO2	0.80	0.85	0.58	AC	0.00	AL	54.13	FE	19.59	MG	26.28		
P2O5	0.18	0.19	0.15	DI	0.00	COLOR INDEX : 30.17							
MNO	0.17	0.18	0.14	HE	0.00	HASHIMOTO INDEX : 42.64							
S	0.00	0.00	0.00	EN	19.32								
NiO	0.00	0.00	0.00	ES	7.07								
CR2O3	0.00	0.00	0.00	EO	0.07								
CO2	0.00	0.00	0.00	EA	0.02								
H2O+	0.00	0.00	0.00	WO	0.00								
H2O-	0.00	0.00	0.00	LN	0.00								
LOI	4.08	0.00	0.00	HT	2.52								
TOTAL	93.76	100.00	100.00	IL	1.17								
				CR	0.00								
				HM	0.00								
				AP	0.39								
				PU	0.00								
				NS	0.00								
				KS	0.00								
				RU	0.00								
				AG	0.00								
				OL	0.09								
				OPX	26.39								
				CPX	0.00								
				ABA	44.71								
TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)													
CR	94.00:CU	12.00:ZN	78.00:RB	-10.00:SR	261.00:Y	-10.00:ZR	36.00:NB	21.00:BA	107.00:				

COMMENTS : FAULT BRECCIA

==== F A L C O N B R I D G E L T D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:04:54

SAMPLE ID # A813823

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 228.50 END DEPTH : 228.60

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 11-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SI02	46.70	51.51	48.50	Q	6.02	NA20+K20	2.97	SI02	51.51	SUBALKALINE		
AL203	14.00	15.44	17.14	G	0.00							
FE203	11.40	4.04	2.86	OR	0.53	OL*	26.48	NE*	31.58	Q*	41.94	SUBALKALINE
FE0	0.00	7.68	6.05	AB	26.28							
CA0	8.36	9.22	9.30	AN	29.44	CPX	39.69	OL	0.00	OPX	60.31	SUBALKALINE
H60	5.55	6.12	8.59	LC	0.00							
NA20	2.61	2.88	5.26	NE	0.00	A	14.54	F	55.45	M	30.00	THOLEIITIC
K20	0.08	0.09	0.11	KP	0.00							
TIO2	2.16	2.38	1.69	AC	0.00	AL203	15.44	NORM	PLAG	52.84	THOLEIITIC	
P205	0.35	0.39	0.31	DI	8.51							
MNO	0.22	0.24	0.19	HE	3.10	AN	52.34	AB*	46.71	OR	0.94	K-POOR SERIES
S	0.00	0.00	0.00	EN	12.93							
NIO	0.00	0.00	0.00	FS	4.70	CI	36.90	NORM	PLAG	52.84	BASALT	
CR203	0.00	0.00	0.00	ED	0.00							
CO2	0.00	0.00	0.00	EA	0.00							
H20+	0.00	0.00	0.00	WD	0.00	JENSEN	HIGH IRON THOLEIITIC BASALT					
H20-	0.00	0.00	0.00	LN	0.00	AL	46.93	FE	29.55	MG	23.52	
LOI	5.39	0.00	0.00	MT	4.29							
				IL	3.37							
TOTAL	90.65	100.00	100.00	CR	0.00	COLOR INDEX :	36.90					
				HM	0.00	HASHIMOTO INDEX :	33.92					
				AP	0.82							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				KU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	17.63							
				CPX	11.60							
				AB*	26.28							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 40.00:CU 87.00:ZN 87.00:RB 20.00:SR 290.00:Y 20.00:ZR 150.00:NB 20.00:BA 60.00:

COMMENTS : ANDESITIC FLOW OR DYKE #2

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:05:35

SAMPLE ID # AB13824

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 233.35 END DEPTH : 233.50

FIELD NAME : OTHER ,LOOK AT COMMENTS.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.F. MONEY  
 ANALYZED BY : XRAL

DATE : 11-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT Z	NORMALIZED ANHYDROUS WT Z	NORMALIZED ANHYDROUS CATION Z	NORMS	CLASSIFICATIONS AND INDICES							
SI02	72.00	74.15	68.14	Q	27.09	NA20+K20	7.18	SI02	74.15	SUBALKALINE		
AL203	13.30	13.70	14.84	C	0.17							
FE203	2.03	1.82	1.26	OR	4.59	OL*	3.02	NE*	39.03	GA	57.95	SUBALKALINE
FE0	0.00	0.24	0.19	AB	56.97							
CA0	1.24	1.28	1.26	AN	5.89	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
H60	1.25	1.29	1.76	EC	0.00							
NA20	6.21	6.40	11.39	NE	0.00	A	69.38	E	18.18	M	12.44	CALC-ALKALINE
K20	0.76	0.78	0.92	KP	0.00							
TI02	0.27	0.28	0.19	AC	0.00	AL203		13.70	NORM	PLAG	9.36	CALC-ALKALINE
P205	0.06	0.06	0.05	DI	0.00							
MNO	0.00	0.00	0.00	HE	0.00	AN	8.73	AB*	84.46	OR	6.81	K-POOR SERIES
S	0.00	0.00	0.00	EN	3.53							
NIO	0.00	0.00	0.00	FS	0.00	CI		5.16	NORM	PLAG	9.36	RHYOLITE
CR203	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H20+	0.00	0.00	0.00	WO	0.00	JENSEN						CALC-ALKALINE RHYOLITE
H20-	0.00	0.00	0.00	LN	0.00	AL	81.35	FE	8.98	MG	9.67	
LOI	1.31	0.00	0.00	HT	0.00							
				IL	0.37							
TOTAL	97.09	100.00	100.00	CR	0.00	COLOR INDEX :		5.16				
				HM	1.26	HASHIMOTO INDEX :		21.25				
				AP	0.13							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.01							
				AG	0.00							
				OL	0.00							
				OPX	3.53							
				CPX	0.00							
				AB*	56.97							
TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)												
AU	-5.00:BE	2.00:B	20.00:SC	5.40:V	46.00:CR	3.00:MN	280.00:CO	6.00:NI	6.00:			
CU	32.00:ZN	16.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:RB	33.00:SR	127.00:Y	-10.00:			
ZR	99.00:NB	-10.00:MO	6.00:AG	-0.50:CD	-1.00:SB	-0.20:CS	-0.50:BA	314.00:LA	11.30:			
CE	18.00:ND	15.00:SH	1.30:EU	0.50:TB	-0.50:YB	1.40:LU	0.27:HF	2.60:TA	-1.00:			
U	-3.00:IR	-20.00:PB	-2.00:TH	2.80:U	1.50:							

COMMENTS : FELSIC BLOCK FROM TUFF BRECCIA

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:06:18

SAMPLE ID # AB13825

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 244.50 END DEPTH : 244.70

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.BLOCK.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 12-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WI %	NORMALIZED ANHYDROUS WI %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	51.70	54.78	50.24	Q	1.63
AL2O3	17.60	18.65	20.16	C	0.00
FE2O3	8.76	2.44	1.68	OR	0.50
FE0	0.00	6.16	4.72	AB	42.86
CAO	6.28	6.65	6.54	AM	28.72
MGO	4.91	5.20	7.11	LC	0.00
NA2O	4.55	4.82	8.57	NE	0.00
K2O	0.08	0.08	0.10	KP	0.00
TIO2	0.80	0.85	0.58	AC	0.00
P2O5	0.17	0.18	0.14	DI	1.51
MNO	0.17	0.18	0.14	HE	0.73
S	0.00	0.00	0.00	EN	13.47
NIO	0.00	0.00	0.00	ES	6.51
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	3.31	0.00	0.00	HI	2.52
				IL	1.17
TOTAL	94.37	100.00	100.00	CR	0.00
				HK	0.00
				AP	0.37
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	19.98
				CPX	2.25
				AB*	42.86

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.91 SI02 54.78 SUBALKALINE  
 OL\* 23.24 NE\* 39.89 Q\* 36.87 SUBALKALINE  
 CPX 10.11 OL 0.00 OPX 89.89 SUBALKALINE  
 A 26.58 F 45.24 H : 28.18 THOLEIITIC  
 AL2O3 18.65 NORM PLAG 40.12 CALC-ALKALINE  
 AN 39.85 AB\* 59.46 OR 0.69 K-POOR SERIES  
 CI 25.92 NORM PLAG 40.12 ANDESITE  
 JENSEN CALC-ALKALINE BASALT  
 AL 58.60 FE 20.73 HG 20.67

COLOR INDEX : 25.92  
 HASHIMOTO INDEX : 31.54

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 40.00:CU 258.00:ZN 54.00:RB -10.00:SR ~ 340.00:Y 20.00:ZR 30.00:NB 20.00:BA 40.00:

COMMENTS :

==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:06:59

SAMPLE ID # AB13826

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092R13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 259.00 END DEPTH : 259.20

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, MEDIUM, QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 12-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT Z	NORMALIZED ANHYDROUS WT Z	NORMALIZED ANHYDROUS CATION Z	NORMS	CLASSIFICATIONS AND INDICES				
					NA2O+K2O	SiO2	80.68	SUBALKALINE	
SiO2	78.60	80.68	75.96	Q 45.27	NA2O+K2O 5.08	SiO2	80.68	SUBALKALINE	
AL2O3	9.39	9.64	10.70	C 0.00	OLA 0.61	NEA 28.13	GA 71.27	SUBALKALINE	
FE2O3	1.55	1.59	1.13	OR 3.83					
FeO	0.00	0.00	0.00	AB 40.56					
CaO	1.83	1.88	1.89	AN 4.55	CPX 84.32	OL 0.00	OPX 15.68	ALKALINE	
H2O	0.90	0.92	1.30	LC 0.00					
Na2O	4.33	4.44	8.11	NE 0.00	A 68.33	F 19.25	M 12.42	CALC-ALKALINE	
K2O	0.62	0.64	0.77	KP 0.00					
TiO2	0.17	0.17	0.12	AC 0.00	AL2O3 9.64	NORM	PLAG 10.08	THOLEIITIC	
P2O5	0.03	0.03	0.02	DI 3.78					
MNO	0.00	0.00	0.00	HE 0.00	AN 9.29	ABA 82.89	OK 7.82	AVERAGE SERIES	
S	0.00	0.00	0.00	EN 0.70					
NiO	0.00	0.00	0.00	FS 0.00	CI 5.61	NORM	PLAG 10.08	RHYOLITE	
CR2O3	0.00	0.00	0.00	FO 0.00					
CO2	0.00	0.00	0.00	FA 0.00					
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN	CALC-ALKALINE	RHYOLITE		
H2O-	0.00	0.00	0.00	LN 0.00	AL 80.77	EE 9.44	MG 9.79		
LOI	1.08	0.00	0.00	HT 0.00					
TOTAL	97.42	100.00	100.00	IL 0.00	COLOR INDEX :	5.61			
				CR 0.00	HASHINOTO INDEX :	19.79			
				Hh 1.13					
				AP 0.07					
				PO 0.00					
				NS 0.00					
				KS 0.00					
				RU 0.12					
				AG 0.00					
				OL 0.00					
				OPX 0.70					
				CPX 3.78					
				ABA 40.56					
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)									
AU	-5.00:BE	2.00:B	20.00:SC	3.90:V	58.00:CR	4.00:MN	290.00:CO	5.00:NI	4.00:
CU	13.00:ZN	11.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:RB	10.00:SR	70.00:Y	40.00:
ZR	60.00:NB	10.00:MO	-5.00:AG	-0.50:CD	-1.00:SB	-0.20:CS	-0.50:BA	300.00:LA	5.20:
CE	7.00:ND	-5.00:SM	0.50:EU	0.20:TB	-0.50:YB	0.90:LU	0.17:HE	1.50:TA	-1.00:
W	-3.00:IR	-20.00:PB	-2.00:TH	4.80:U	1.20:				

COMMENTS : REP DYKE

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:07:42

SAMPLE ID # AB13827

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0    CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      PROJECT : PF OPTION  
 UTM ZONE : 10      GRID COORDINATES :    E :    0.0    N :    0.0    EL :    0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PF-87-1      START DEPTH : 267.00      END DEPTH : 267.20

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, BLOCK.  
 FINAL NAME :  
 ALTERATION : FRACTURE CONTROLLED, CARBONATIZATION, MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLENDS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY      DATE : 12-MAY-87      ANALYTICAL  
 ANALYZED BY : XRAL      DATE : 24-JUN-87      TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES	
		ANHYDROUS WT %	ANHYDROUS CATION %			
SI02	46.00	49.87	46.82	Q	2.57	NA20+K20 1.94 SI02 49.87 SUBALKALINE
AL203	16.70	18.11	20.03	C	0.00	
FE203	10.30	2.43	1.72	OR	0.78	OLA 35.21 NEA 27.53 OX 37.25 SUBALKALINE
FE0	0.00	7.86	6.17	AB	16.48	
CA0	11.90	12.90	12.98	AN	41.46	CPX 51.31 OL 0.00 OPX 48.69 SUBALKALINE
H2O	5.24	5.68	7.95	LC	0.00	
NA20	1.67	1.81	3.30	NE	0.00	A 10.98 F 56.87 M 32.15 THOLEIITIC
K20	0.12	0.13	0.16	KP	0.00	
TIO2	0.74	0.80	0.57	AC	0.00	AL203 18.11 NORM PLAG 71.56 CALC-ALKALINE
P205	0.17	0.18	0.15	DI	10.97	
HNO	0.20	0.22	0.17	HE	6.79	AN 70.61 ABA 28.06 OR 1.33 AVERAGE SERIES
S	0.00	0.00	0.00	EN	10.41	
NIO	0.00	0.00	0.00	ES	6.45	CI 38.33 NORM PLAG 71.56 BASALT
CR203	0.00	0.00	0.00	FO	0.00	
CO2	0.00	0.00	0.00	FA	0.00	
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN	0.00	AL 54.72 FE 23.57 MG 21.71
LOI	5.24	0.00	0.00	MT	2.57	
TOTAL	92.23	100.00	100.00	IL	1.13	
				CR	0.00	COLOR INDEX : 38.33
				HM	0.00	HASHIMOTO INDEX : 28.31
				AP	0.39	
				PO	0.00	
				NS	0.00	
				KS	0.00	
				RU	0.00	
				AG	0.00	
				OL	0.00	
				OPX	16.86	
				CPX	17.77	
				ABA	16.48	
TRACE ELEMENTS (P.P.M.) AU, RE, PI, PD, IR, OS, RH, RU, HG (P.P.B.)						
CR	80.00:CU	74.00:ZN	42.00:RE	10.00:SR	540.00:Y	20.00:ZR 30.00:NB 10.00:BA 40.00:

COMMENTS :

==== FALCONBRIDGE LID =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:08:23

SAMPLE ID # AB13828

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-1 START DEPTH : 277.10 END DEPTH : 277.30

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, BLOCK.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES	
SI02	60.90	63.74	58.29	Q	14.28	NA20+K20 6.06 SI02 63.74 SUBALKALINE
AL2O3	15.50	16.22	17.49	C	3.18	
FE2O3	6.85	2.19	1.51	OR	0.61	OL* 14.94 NE* 37.82 GA 47.24 SUBALKALINE
FE0	0.00	4.48	3.43	AB	52.79	
CA0	1.94	2.03	1.99	AN	9.07	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
H60	4.20	4.40	5.99	LC	0.00	
NA20	5.69	5.96	10.56	NE	0.00	A 35.84 F 38.16 M 26.00 THOLEIITIC
K20	0.10	0.10	0.12	KP	0.00	
TI02	0.59	0.62	0.42	AC	0.00	AL2O3 16.22 NORM PLAG 14.66 CALC-ALKALINE
P2O5	0.13	0.14	0.11	DI	0.00	
MNO	0.12	0.13	0.10	HE	0.00	AN 14.52 AB* 84.51 OR 0.98 K-POOR SERIES
S	0.00	0.00	0.00	EN	11.98	
NIO	0.00	0.00	0.00	FS	4.70	CI 19.79 NORM PLAG 14.66 DACITE
CR2O3	0.00	0.00	0.00	FO	0.00	
CO2	0.00	0.00	0.00	FA	0.00	
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN CALC-ALKALINE ANDESITE
H2O-	0.00	0.00	0.00	LN	0.00	AL 60.44 FE 18.86 MG 20.71
LOI	2.46	0.00	0.00	MT	2.26	
TOTAL	95.54	100.00	100.00	IL	0.85	
				CR	0.00	COLOR INDEX : 19.79
				HM	0.00	HASHIMOTO INDEX : 36.04
				AP	0.28	
				PO	0.00	
				NS	0.00	
				KS	0.00	
				RU	0.00	
				AG	0.00	
				OL	0.00	
				OPX	16.68	
				CPX	0.00	
				AB*	52.79	
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)						
CR	35.00:CU	32.00:ZN	66.00:RB	-10.00:SR	158.00:Y	14.00:ZR 71.00:NB 17.00:BA 114.00;

COMMENTS : 'DACIITIC' TO 'ANDESITIC' TUFF BRECCIA WITH EPIDOTE AND FELSIC CLASTS



==== FALCONBRIDGE LTD =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:09:04

SAMPLE ID # A813829

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092R13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 287.00 END DEPTH : 287.10

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC .MEDIUM. QUARTZ AND FELDSPAR PORPHYRITIC.

FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS. CLX, PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES				
SiO2	74.60	76.11	70.91	G 34.53	NA2O+K2O	6.33	SiO2	76.11	SUBALKALINE
Al2O3	12.90	13.16	14.45	C 0.00	OLA	1.57	NEA 32.08	QA 66.35	SUBALKALINE
Fe2O3	1.14	1.16	0.82	OR 10.25	CPX	32.15	OL 0.00	OPX 67.85	SUBALKALINE
FeO	0.00	0.00	0.00	AB 41.56	A	78.13	F 12.93	M 8.95	CALC-ALKALINE
CaO	2.25	2.30	2.29	AN 10.23	AL2O3	13.16	NORM PLAG	19.75	THOLEIITIC
H2O	0.71	0.72	1.01	LC 0.00	AN	16.46	ABA 66.98	OR 16.53	AVERAGE SERIES
Na2O	4.51	4.60	8.31	NE 0.00	CI	3.21	NORM PLAG	19.75	DACITE
K2O	1.69	1.72	2.05	KP 0.00	JENSEN CALC-ALKALINE RHYOLITE				
TiO2	0.18	0.18	0.13	AC 0.00	AL	88.11	FE 5.76	MG 6.13	
P2O5	0.04	0.04	0.03	DI 0.77	COLOR INDEX : 3.21				
MnO	0.00	0.00	0.00	HE 0.00	HASHIMOTO INDEX : 26.20				
S	0.00	0.00	0.00	EN 1.63					
NiO	0.00	0.00	0.00	ES 0.00					
Cr2O3	0.00	0.00	0.00	FO 0.00					
CO2	0.00	0.00	0.00	FA 0.00					
H2O+	0.00	0.00	0.00	WO 0.00					
H2O-	0.00	0.00	0.00	LN 0.00					
LOI	2.00	0.00	0.00	MT 0.00					
TOTAL	98.02	100.00	100.00	IL 0.00					
				CR 0.00					
				HM 0.82					
				AP 0.09					
				PO 0.00					
				NS 0.00					
				KS 0.00					
				RU 0.13					
				AG 0.00					
				OL 0.00					
				OPX 1.63					
				CPX 0.77					
				ABA 41.56					
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)									
AU	-5.00:BE	2.00:R	10.00:SC	2.40:V	24.00:CR	-2.00:MN	190.00:CO	3.00:NI	4.00:
CU	1.50:ZN	13.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:RB	30.00:SR	100.00:Y	10.00:
ZR	70.00:NB	10.00:HO	11.00:AG	-0.50:CD	-1.00:SR	-0.20:CS	0.60:BA	510.00:LA	14.30:
CE	13.00:ND	-5.00:SH	1.20:EU	0.30:TB	-0.50:YB	1.30:LU	0.25:HF	4.90:TA	-1.00:
W	-3.00:IR	-20.00:PB	-2.00:TH	6.20:U	2.60:				

COMMENTS : QEP WITH MORE QIZ EYES AND ESPARS THAN PREVIOUS DYKES

==== FALCONBRIDGE LTD =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:09:48

SAMPLE ID # AB13830

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-1 START DEPTH : 297.10 END DEPTH : 297.20

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, FLOCK.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT %	ANHYDROUS CATION %									
SiO2	49.90	53.26	49.32	Q	2.01	NA2O+K2O	4.16	SiO2	53.26	SUBALKALINE		
Al2O3	17.40	18.57	20.27	C	0.00	OL*	27.03	NE*	36.18	Q*	36.79	SUBALKALINE
Fe2O3	9.68	2.40	1.67	OR	2.84	CPX	22.12	OL	0.00	OPX	77.88	SUBALKALINE
FeO	0.00	7.14	5.53	AB	33.05	A	22.43	F	50.09	H	27.49	THOLEIITIC
CaO	7.73	8.25	6.19	AN	32.73	AL2O3	18.57	NORM	PLAG	49.75	CALC-ALKALINE	
MgO	4.78	5.10	7.04	LC	0.00	AN	47.69	AB*	48.17	OR	4.14	AVERAGE SERIES
Na2O	3.45	3.68	6.61	NE	0.00	CI	28.99	NORM	PLAG	49.75	BASALT	
K2O	0.45	0.48	0.57	KP	0.00	JENSEN CALC-ALKALINE BASALT						
TiO2	0.75	0.80	0.56	AC	0.00	AL	57.62	FE	22.36	HG	20.02	
P2O5	0.17	0.18	0.14	PI	3.50	COLOR INDEX : 28.99						
MnO	0.13	0.14	0.11	HE	2.11	HASHIMOTO INDEX : 31.87						
S	0.00	0.00	0.00	EN	12.33							
NiO	0.00	0.00	0.00	ES	7.43							
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	4.31	0.00	0.00	MT	2.51							
TOTAL	93.70	100.00	100.00	IL	1.11							
				CR	0.00							
				HM	0.00							
				AP	0.38							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	19.76							
				CPX	5.61							
				AB*	33.05							
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
CR	20.00:CU	300.00:ZN	35.00:RB	10.00:SR	380.00:Y	30.00:ZR	30.00:NB	30.00:BA	190.00:			

COMMENTS : TUFF BRECCIA WITH EPIDOTE BLOCKS AND LAPILLI

==== F A L C O N B R I D G E L T D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:10:29

SAMPLE ID # AB13831

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DBH : PF-87-1 START DEPTH : 307.10 END DEPTH : 307.20

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.BLOCK.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES						
SI02	54.50	57.60	53.45	Q 9.08	NA20+K20	4.16	SI02	57.60	SUBALKALINE		
AL203	16.40	17.33	18.96	C 0.00							
FE203	8.27	2.30	1.61	OR 1.25	OLA	19.39	NEA	35.44	GA	45.17	SUBALKALINE
FE0	0.00	5.79	4.49	AB 35.55							
CA0	7.10	7.50	7.46	AN 28.99	CPX	27.21	OL	0.00	OPX	72.79	SUBALKALINE
Mg0	4.07	4.30	5.95	LC 0.00							
NA20	3.74	3.95	7.11	NE 0.00	A	25.50	F	48.16	M	26.34	THOLEIITIC
K20	0.20	0.21	0.25	KP 0.00	AL203	17.33	NORM	PLAG	44.92		CALC-ALKALINE
TI02	0.68	0.72	0.50	AC 0.00							
P205	0.15	0.16	0.12	DI 3.75	AN	44.06	ABA	54.04	OR	1.90	K-POOR SERIES
MNO	0.12	0.13	0.10	HE 2.07							
S	0.00	0.00	0.00	EN 10.02	CI	24.80	NORM	PLAG	44.92		ANDESITE
Ni0	0.00	0.00	0.00	FS 5.54							
CR203	0.00	0.00	0.00	FO 0.00							
CO2	0.00	0.00	0.00	FA 0.00							
H20+	0.00	0.00	0.00	WD 0.00							
H20-	0.00	0.00	0.00	LN 0.00	JENSEN		CALC-ALKALINE	BASALT			
LOI	3.46	0.00	0.00	MT 2.41	AL	59.97	FE	21.21	MG	18.82	
TOTAL	94.62	100.00	100.00	IL 1.00							
				CR 0.00	COLOR INDEX :	24.80					
				HM 0.00	HASHINGTO INDEX :	28.26					
				AP 0.33							
				PO 0.00							
				NS 0.00							
				KS 0.00							
				RU 0.00							
				AG 0.00							
				OL 0.00							
				OPX 15.56							
				CPX 5.82							
				ABA 35.55							
TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)											
CR	30.00:CU	133.00:ZN	25.00:RB	30.00:SR	440.00:Y	-10.00:ZR	20.00:NB	30.00:BA	80.00:		

COMMENTS : SEE AB13830

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:11:09

SAMPLE ID # AB13832

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-1 START DEPTH : 319.70 END DEPTH : 319.90

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, MEDIUM, QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES								
SiO2	74.80	76.90	71.34	Q	34.17	NA20+K20	6.38	SiO2	76.90	SUBALKALINE		
Al2O3	12.40	12.75	13.94	C	0.00							
Fe2O3	0.85	0.87	0.61	OR	6.15	OL*	0.36	NE*	34.90	Q*	64.74	SUBALKALINE
FeO	0.00	0.00	0.00	AB	48.07							
CaO	2.21	2.27	2.26	AN	7.74	CPX	87.23	OL	0.00	OPX	12.77	ALKALINE
MgO	0.61	0.63	0.87	LC	0.00							
Na2O	5.20	5.35	9.61	NE	0.00	A	81.87	F	10.08	M	8.04	CALC-ALKALINE
K2O	1.01	1.04	1.23	KP	0.00							
TiO2	0.16	0.16	0.11	AC	0.00	AL2O3	12.75	NORM	PLAG	13.86	THOLEITIC	
P2O5	0.03	0.03	0.02	DI	2.68							
MnO	0.00	0.00	0.00	HE	0.00	AN	12.49	AB*	77.59	OR	9.93	AVERAGE SERIES
S	0.00	0.00	0.00	EN	0.39							
NiO	0.00	0.00	0.00	FS	0.00	CI	3.69	NORM	PLAG	13.86	RHYOLITE	
CR2O3	0.00	0.00	0.00	ED	0.00							
Co2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	CALC-ALKALINE	RHYOLITE				
H2O-	0.00	0.00	0.00	LN	0.00	AL	89.75	FE	4.67	HG	5.58	
LOI	1.62	0.00	0.00	MT	0.00							
TOTAL	97.27	100.00	100.00	IL	0.00							
				CR	0.00	COLOR INDEX :	3.69					
				HM	0.61	HASHIMOTO INDEX :	17.94					
				AP	0.06							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.11							
				AG	0.00							
				OL	0.00							
				OPX	0.39							
				CPX	2.68							
				AB*	48.07							
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
AU	-5.00:BE	2.00:Ba	30.00:SC	2.40:V	16.00:CR	-2.00:MN	190.00:CO	3.00:NI	3.00:			
CU	3.00:ZN	10.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:RE	13.00:SR	83.00:Y	16.00:			
ZR	79.00:NB	17.00:MO	5.00:AG	-0.50:CD	-1.00:SB	-0.20:CS	-0.50:Ba	529.00:LA	15.50:			
CE	21.00:ND	-5.00:SM	1.30:EU	0.40:TB	-0.50:Yb	1.50:LU	0.31:HF	2.30:TA	-1.00:			
W	-3.00:IR	-20.00:PF	-2.00:TH	6.30:U	2.70:							

COMMENTS : QEP FROM 20M + INTRUSION

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:43:05

SAMPLE ID # AB13833

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-1 START DEPTH : 335.00 END DEPTH : 335.10

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, LOOK AT COMMENTS.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 14-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	53.60	55.91	51.52	Q	3.80	NA2O+K2O	4.63	SiO2	55.91	SUBALKALINE		
Al2O3	18.10	18.88	20.51	C	0.00							
Fe2O3	8.42	2.34	1.62	OR	0.49	OL*	21.87	NE*	38.86	Q*	39.26	SUBALKALINE
FeO	0.00	5.80	4.47	AB	40.62							
CaO	6.96	7.26	7.17	AN	30.71	CPX	15.03	OL	0.00	OPX	84.97	SUBALKALINE
MgO	4.07	4.25	5.83	LC	0.00							
Na2O	4.36	4.55	8.12	NE	0.00	A	27.60	F	47.10	M	25.30	THOLEIITIC
K2O	0.08	0.08	0.10	KP	0.00							
TiO2	0.74	0.77	0.53	AC	0.00	AL2O3	18.88	NORM	PLAG	43.05		CALC-ALKALINE
P2O5	0.16	0.17	0.13	DI	1.90							
HNO	0.00	0.00	0.00	HE	1.34	AN	42.76	AB*	56.56	OR	0.68	K-POOR SERIES
H2O	0.00	0.00	0.00	EN	10.71							
CR2O3	0.00	0.00	0.00	ES	7.58	CI	25.03	NORM	PLAG	43.05		ANDESITE
CO2	0.00	0.00	0.00	EO	0.00							
H2O+	0.00	0.00	0.00	EA	0.00							
H2O-	0.00	0.00	0.00	WO	0.00	JENSEN		CALC-ALKALINE	ANDESITE			
LOI	2.77	0.00	0.00	LN	0.00	AL	62.21	FE	20.10	MG	17.69	
TOTAL	-4.13	99.00	99.00	HI	2.43							
				IL	1.07							
				CR	0.00	COLOR INDEX :	25.03					
				HM	0.00	HASHIMOTO INDEX :	26.83					
				AP	0.35							
				PO	1.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	18.29							
				CPX	3.24							
				AB*	40.62							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, KH, RU, HG (P.P.B.)

AU	15.00:LI	-10.00:RE	-5.00:B	-10.00:V	270.00:CR	56.00:MN	640.00:CO	22.00:NI	11.00:
CU	170.00:ZN	40.00:GA	16.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	-10.00:SR	595.00:Y	20.00:
ZR	26.00:NB	-10.00:MO	6.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	78.00:
LA	11.00:CE	22.00:ND	13.00:SH	2.70:EU	1.00:GD	2.90:DY	3.30:ER	2.20:LU	0.40:
HF	-1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	3.00:U	1.70:IN	-1.00:TL	-1.00:

COMMENTS : INT ASH TUFF BED FROM TUFF BRECCIA

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:43:49

SAMPLE ID # AB13834

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DBH : PE-87-1 START DEPTH : 338.80 END DEPTH : 338.90

TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS. 1-5%, PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 14-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	55.60	0.52	0.28	Q	0.10
AL203	16.00	0.15	0.10	C	0.04
FE203	10.50	0.02	0.01	OR	0.03
FE0	0.00	0.07	0.03	AB	0.18
CA0	1.38	0.01	0.01	AN	0.03
H60	5.55	0.05	0.04	LC	0.00
NA20	3.74	0.04	0.04	NE	0.00
K20	1.05	0.01	0.01	KP	0.00
TI02	0.68	0.01	0.00	AC	0.00
P205	0.15	0.00	0.00	DI	0.00
MNO	0.00	0.00	0.00	HE	0.00
S	10500.00	99.11	99.49	EN	0.08
NIO	0.00	0.00	0.00	FS	0.00
CR203	0.00	0.00	0.00	ED	0.00
CO2	0.00	0.00	0.00	FA	0.00
H20+	0.00	0.00	0.00	WO	0.00
H20-	0.00	0.00	0.00	LN	0.00
LOI	4.77	0.00	0.00	MT	0.00
TOTAL	*****	100.00	100.00	IL	99.46
				CR	0.00
				HM	0.01
				AP	0.00
				PO	198.98
				NS	0.00
				KS	0.00
				RU	99.46
				AG	0.00
				OL	0.00
				DPX	0.08
				CPX	0.00
				ABA	0.18

CLASSIFICATIONS AND INDICES					
NA20+K20	0.05	SI02	0.52	ALKALINE	
OLA	17.28	NE*	30.29	Q*	52.44
CPX	0.00	OL	0.00	OPX	100.00
A	24.21	F	47.75	M	28.05
AL203	0.15	NORM	PLAG	14.87	THOLEITIC
AN	12.85	AB*	73.55	OR	13.60
CI	0.09	NORM	PLAG	14.87	TRACHYTE
JENSEN CALC-ALKALINE BASALT					
AL	53.06	FE	23.67	MG	23.27

COLOR INDEX : 0.09  
 HASHIMOTO INDEX : 56.31

TRACE ELEMENTS (P.P.H.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

AU	4.00:LI	-10.00:BE	-5.00:B	-10.00:V	180.00:CR	58.00:HN	630.00:CO	22.00:NI	14.00:
CU	12.00:ZN	48.00:GA	11.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	24.00:SR	81.00:Y	-10.00:
ZR	53.00:NB	-10.00:HO	9.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	617.00:
LA	5.00:CE	11.00:ND	6.10:SM	1.30:EU	0.40:GD	1.40:DY	2.00:ER	1.40:LU	0.30:
HF	-1.00:IA	2.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.20:IN	-1.00:IL	-1.00:

COMMENTS : INTERM OR MAEC ASH TUFF WITH APPROX 5% PY

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:44:34

SAMPLE ID # AB13835

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0      CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      PROJECT : PF OPTION  
 UTM ZONE : 10      GRID COORDINATES : E :      0.0      N :      0.0      EL :      0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PF-87-1      START DEPTH : 347.00      END DEPTH : 347.20

FIELD NAME : PLUTONIC.FELSIC OR LEUCOCRATIC .MEDIUM,QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 14-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	75.00	25.10	15.57	Q 7.20	NA20+K20 2.10 SI02 25.10 ALKALINE
AL203	13.10	4.38	3.21	C 0.00	
FE203	1.37	0.46	0.21	OR 0.88	OLA 1.00 NE* 36.16 O* 62.85 SUBALKALINE
FE0	0.00	0.00	0.00	AB 11.29	
CA0	2.19	0.73	0.49	AN 1.93	CPX 58.88 OL 0.00 OPX 41.12 ALKALINE
Mg0	0.69	0.23	0.21	LC 0.00	
NA20	5.61	1.88	2.26	NE 0.00	A 76.53 F 15.05 M 8.42 CALC-ALKALINE
K20	0.66	0.22	0.18	KP 0.00	
TI02	0.20	0.07	0.03	AC 0.00	AL203 4.38 NORM PLAG 14.61 THOLEITIC
P205	0.04	0.01	0.01	DI 0.36	
MNO	0.00	0.00	0.00	HE 0.00	AN 13.70 AB* 80.09 OR 6.21 SODIC
S	260.00	66.92	77.83	EN 0.25	
NIO	0.00	0.00	0.00	ES 0.00	CI 0.82 NORM PLAG 14.61 TRACHYTE
CR203	0.00	0.00	0.00	EO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H20+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE RHYOLITE
H20-	0.00	0.00	0.00	LN 0.00	AL 87.48 FE 6.69 MG 5.83
LOI	0.70	0.00	0.00	MT 0.00	
TOTAL	298.86	100.00	100.00	IL 77.83	COLOR INDEX : 0.82 HASHIMOTO INDEX : 14.75
				CR 0.00	
				HM 0.21	
				AP 0.02	
				PO 155.67	
				NS 0.00	
				KS 0.00	
				RU 77.87	
				AG 0.00	
				OL 0.00	
				OPX 0.25	
				CPX 0.36	
				AB* 11.29	

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.P.)

AU	6.00:LI	-10.00:BE	-5.00:B	-10.00:V	20.00:CR	150.00:MN	140.00:CO	2.00:NI	4.00:
CU	3.00:ZN	13.00:GA	9.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	22.00:SR	210.00:Y	16.00:
ZR	73.00:NB	-10.00:MO	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	349.00:
LA	13.00:CE	21.00:ND	7.60:SM	1.30:EU	0.40:GD	1.20:DY	1.50:ER	1.10:LU	0.30:
HF	1.00:TA	2.00:W	-3.00:PB	-2.00:BI	-0.50:TH	6.00:U	3.40:IN	-1.00:TL	-1.00:

COMMENTS : QEP DYKE OR SILL

REPORT #2000

SAMPLE ID # AB20351

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION : PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 10.20 END DEPTH : 10.30

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,QUARTZ PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CHLORITIZATION,MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLED,1-SX.PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	46.70	50.63	45.77	Q 0.00	NA20+K20 6.09 SI02 50.63 ALKALINE
AL203	20.00	21.68	23.11	C 6.48	
FE203	9.79	2.66	1.81	OR 3.82	OL* 28.43 NE* 41.20 O* 30.37 SUBALKALINE
FE0	0.00	7.16	5.41	AB 47.60	CFX 0.00 OL 62.95 OPX 37.05 SUBALKALINE
CA0	3.27	3.55	3.43	AN 15.85	A 27.11 F 42.50 M 30.39 THOLEIITIC
M60	6.30	6.83	9.20	LC 0.00	AL203 21.68 NORM PLAG 24.99 CALC-ALKALINE
NA20	5.01	5.43	9.52	NE 0.00	AN 23.57 ABA 70.76 OR 5.68 SODIC
K20	0.61	0.66	0.76	KP 0.00	CI 25.83 NORM PLAG 24.99 HAWAIIITE
TIO2	0.95	1.03	0.70	AC 0.00	
P205	0.19	0.21	0.16	DI 0.00	JENSEN CALC-ALKALINE BASALT
MNO	0.15	0.16	0.12	HE 0.00	AL 57.26 FE 19.94 MG 22.80
S	0.00	0.00	0.00	EN 5.64	
NIO	0.00	0.00	0.00	ES 2.41	
CR203	0.00	0.00	0.00	FO 9.58	
CO2	0.00	0.00	0.00	FA 4.09	
H20+	0.00	0.00	0.00	WD 0.00	
H20-	0.00	0.00	0.00	LN 0.00	
LOI	5.24	0.00	0.00	MT 2.71	
TOTAL	92.23	100.00	100.00	IL 1.40	
				CR 0.00	
				HM 0.00	
				AP 0.42	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 13.67	
				OPX 8.05	
				CPX 0.00	
				ABA 47.60	

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 30.00:CU 60.00:ZN 45.00:RB 10.00:SR 270.00:Y 30.00:ZR 40.00:NB 10.00:BA 220.00:

COMMENTS : MAY BE INTERMEDIATE IN COMPOSITION. MODERATE EPIDOTE ALTERATION CENTRED ON FELDSPAR XTALS AND OCCAS. CARBONATE CLOTS



==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:12:34

SAMPLE ID # AB20352

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 21.70 END DEPTH : 21.80

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE, CHLORITIZATION, MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLESS, 1-5% PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	50.10	53.15	49.14	Q 2.82	NA2O+K2O 3.97 SiO2 53.15 SUBALKALINE
Al2O3	18.60	19.73	21.50	C 0.00	
Fe2O3	9.32	2.56	1.78	OR 0.38	OL* 26.61 NE* 35.82 Q* 37.57 SUBALKALINE
FeO	0.00	6.60	5.10	AB 34.99	
CaO	7.23	7.67	7.60	AN 36.07	CPX 2.50 OL 0.00 OPX 97.50 SUBALKALINE
MgO	4.67	4.95	6.83	LC 0.00	
Na2O	3.68	3.90	7.00	NE 0.00	A 22.27 F 49.93 H 27.80 THOLEIITIC
K2O	0.06	0.06	0.08	KP 0.00	
TiO2	0.91	0.97	0.67	AC 0.00	AL2O3 19.73 NORM FLAG 50.77 CALC-ALKALINE
P2O5	0.18	0.19	0.15	DI 0.35	
MnO	0.20	0.21	0.17	HE 0.19	AN 50.50 AB* 48.98 OR 0.53 K-POOR SERIES
S	0.00	0.00	0.00	EN 13.48	
NiO	0.00	0.00	0.00	ES 7.32	CI 25.34 NORM FLAG 50.77 BASALT
Cr2O3	0.00	0.00	0.00	EO 0.00	
CO2	0.00	0.00	0.00	EA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN 0.00	AL 59.65 FE 21.41 MG 18.94
LOI	3.31	0.00	0.00	MT 2.67	
TOTAL	94.26	100.00	100.00	IL 1.34	COLOR INDEX : 25.34 HASHIMOTO INDEX : 30.24
				CR 0.00	
				HM 0.00	
				AP 0.40	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				KU 0.00	
				AG 0.00	
				UL 0.00	
				OPX 20.80	
				CPX 0.53	
				AB* 34.99	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 31.00:CU 116.00:ZN 58.00:RB -10.00:SR 547.00:Y -10.00:ZR 36.00:NB 17.00:BA 68.00:

COMMENTS : MODERATE EPIDOTE ALTERATION CENTRED ON LAPILLI FELDSPAR XTALS AND OCCASIONAL CARB CLOT, 2% DISSEM PY

==== F A L C O N B R I D G E L T D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:13:15

SAMPLE ID # AB20353

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092D13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 32.60 END DEPTH : 32.70

PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE, CHLORITIZATION, MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	51.00	54.11	48.48	Q 0.00	NA20+K20 6.93 SI02 54.11 ALKALINE
AL203	19.20	20.37	21.51	C 6.24	
FE203	8.91	2.41	1.62	OR 0.85	OLA 23.29 NEA 43.76 OA 32.95 SUBALKALINE
FE0	0.00	6.34	4.75	AB 58.89	
CA0	1.83	1.94	1.86	AN 8.31	CPX 0.00 OL 44.15 OPX 55.85 SUBALKALINE
MGO	6.37	6.76	9.02	LC 0.00	
NA20	6.39	6.78	11.78	NE 0.00	A 31.22 F 38.33 M 30.45 THOLEITIC
K20	0.14	0.15	0.17	KP 0.00	
TIO2	0.77	0.82	0.55	AC 0.00	AL203 20.37 NORM PLAG 12.37 CALC-ALKALINE
P205	0.15	0.16	0.12	DI 0.00	
MNO	0.15	0.16	0.12	HE 0.00	AN 12.22 ABA 86.54 OR 1.25 SODIC
S	0.00	0.00	0.00	EN 8.79	
NIO	0.00	0.00	0.00	FS 3.42	CI 25.39 NORM PLAG 12.37 MUGEARITE
CR203	0.00	0.00	0.00	FD 6.95	
CO2	0.00	0.00	0.00	FA 2.70	
H20+	0.00	0.00	0.00	WD 0.00	JENSEN CALC-ALKALINE BASALT
H20-	0.00	0.00	0.00	LN 0.00	AL 57.24 FE 18.75 MG 24.01
LOI	4.77	0.00	0.00	MT 2.44	
TOTAL	94.24	100.00	100.00	IL 1.10	COLOE INDEX : 25.39 HASHIMOTO INDEX : 44.20
				CR 0.00	
				HM 0.00	
				AP 0.32	
				PD 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 9.65	
				OPX 12.20	
				CPX 0.00	
				ABA 58.89	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 50.00:CU 69.00:ZN 55.00:RB 10.00:SR 180.00:Y 10.00:ZR 60.00:NB 30.00:BA 100.00:

COMMENTS : WEAK EPIDOTE ALTERATION CENTERED ON OCCASIONAL CARB PATCH

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:13:56

SAMPLE ID # AB20354

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87

FIELD NUMBER :

PROJECT # 1117

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

UTM ZONE : 10

GRID COORDINATES : E :

PROJECT : PE OPTION

SAMPLE TYPE : DRILL HOLE

DDH : PF-87-2

START DEPTH : 37.30

0.0 N : 0.0 EL : 0.0  
 END DEPTH : 37.40

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.

FINAL NAME :

ALTERATION : UNKNOWN, LOOK AT COMMENTS.

MINERALIZATION : DISSEMINATED AND BLEBS, 1-SZ, PYRITE.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 10-MAY-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 24-JUN-87

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NURMS	CLASSIFICATIONS AND INDICES
SI02	49.30	52.97	48.38	Q	NA20+K20 4.12 SI02 52.97 SUBALKALINE
AL203	17.90	19.23	20.71	C	
FE203	10.20	2.44	1.68	OR	OL* 35.48 NE* 27.97 Q* 36.54 SUBALKALINE
FE0	0.00	7.67	5.86	AB	32.82
CA0	3.25	3.49	3.42	AN	15.84
MGO	8.23	8.84	12.04	LC	0.00
NA20	3.45	3.71	6.56	NE	0.00
K20	0.38	0.41	0.48	KP	0.00
TI02	0.77	0.83	0.57	AC	0.00
P205	0.18	0.19	0.15	DI	0.00
MNO	0.20	0.21	0.17	HE	0.00
S	0.00	0.00	0.00	EN	24.07
NIO	0.00	0.00	0.00	FS	9.23
CR203	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WD	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	5.00	0.00	0.00	MT	2.51
TOTAL	93.07	100.00	100.00	IL	1.14
				CR	0.00
				HM	0.00
				AP	0.40
				PD	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	33.31
				CPX	0.00
				ABA	32.82
TRACE ELEMENTS (P.P.M.) AU, RE, PI, PD, IR, OS, RH, RU, HG (P.P.B.)					
CR	87.00:CU	70.00:ZN	75.00:RB	29.00:SK	212.00:Y
					-10.00:ZR
					41.00:NB
					30.00:BA
					204.00:

COMMENTS : MOB EPIDOTE ALTERATION CENTRED ON CARB CLOTS UP TO 2CM IN DIAMETER

==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:14:37

SAMPLE ID # A820355

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-2 START DEPTH : 47.30 END DEPTH : 47.40

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1X, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	50.40	53.47	49.50	Q 4.60	NA20+K20 3.07 SI02 53.47 SUBALKALINE
AL2O3	17.20	18.25	19.91	C 0.00	
FE2O3	9.46	2.34	1.63	OR 0.44	OLA 34.02 NE* 27.99 O* 37.99 SUBALKALINE
FE0	0.00	6.92	5.36	AB 26.85	
CA0	7.55	8.01	7.95	AN 36.14	CPX 7.25 OL 0.00 OPX 92.75 SUBALKALINE
H2O	6.39	6.78	9.35	LC 0.00	
NA2O	2.82	2.99	5.37	NE 0.00	A 16.24 F 47.84 H 35.91 THOLEITIC
K2O	0.07	0.07	0.09	KP 0.00	
TIO2	0.71	0.75	0.52	AC 0.00	AL2O3 18.25 NORM PLAG 57.37 CALC-ALKALINE
P2O5	0.15	0.16	0.12	DI 1.41	
MNO	0.23	0.24	0.19	HE 0.63	AN 56.98 AB* 42.33 OR 0.69 K-POOR SERIES
S	0.00	0.00	0.00	EN 18.00	
NIO	0.00	0.00	0.00	FS 8.10	CI 31.64 NORM PLAG 57.37 BASALT
CR2O3	0.00	0.00	0.00	EO 0.00	
CO2	0.00	0.00	0.00	EA 0.00	
H2O+	0.00	0.00	0.00	WD 0.00	JENSEN CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN 0.00	AL 53.86 FE 20.85 MG 25.30
LOI	4.00	0.00	0.00	MT 2.45	
TOTAL	94.25	100.00	100.00	IL 1.05	COLOR INDEX : 31.64 HASHIMOTO INDEX : 38.38
				CR 0.00	
				HM 0.00	
				AP 0.33	
				PD 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				DL 0.00	
				OPX 26.10	
				CPX 2.04	
				AB* 26.85	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 110.00:CU 759.00:ZN 51.00:RB -10.00:SR 370.00:Y -10.00:ZR 10.00:NB 10.00:BA 60.00:

COMMENTS : MODERATE EPIDOTE ALTERATION CENTRED ON CARB CLOTS UP TO 3 CM IN DIAMETER, 2X PY

==== FALCON BRIDGE LTD =====  
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REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:15:18

SAMPLE ID # AB20356

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092R13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 72.00 END DEPTH : 72.10

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-SZ, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	47.50	50.85	47.25	Q 3.08	NA20+K20 2.52 SI02 50.85 SUBALKALINE
AL203	18.20	19.48	21.34	C 0.88	
FE233	10.50	2.40	1.68	OR 1.91	OLA 42.64 NEA 22.40 QA 34.96 SUBALKALINE
FE0	0.00	7.96	6.18	AB 19.77	
CA0	7.76	8.31	8.27	AN 40.30	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
HG0	6.76	7.24	10.02	LC 0.00	
NA20	2.05	2.19	3.95	NE 0.00	A 12.66 F 50.91 H 36.43 THOLEITIC
K20	0.30	0.32	0.38	KP 0.00	
TI02	0.74	0.79	0.55	AC 0.00	AL203 19.48 NORM PLAG 67.09 CALC-ALKALINE
P205	0.15	0.16	0.13	DI 0.00	
MNO	0.28	0.30	0.24	HE 0.00	AN 65.03 ABA 31.90 OR 3.07 AVERAGE SERIES
S	0.00	0.00	0.00	EN 20.04	
NIO	0.00	0.00	0.00	ES 10.05	CI 33.72 NORM PLAG 67.09 BASALT
CR203	0.00	0.00	0.00	EO 0.00	
CO2	0.00	0.00	0.00	EA 0.00	
H20+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE BASALT
H20-	0.00	0.00	0.00	LN 0.00	AL 53.33 FE 21.62 MG 25.05
LOI	4.24	0.00	0.00	HT 2.52	
TOTAL	93.41	100.00	100.00	IL 1.11	COLOR INDEX : 33.72 HASHIMOTO INDEX : 41.85
				CR 0.00	
				HM 0.00	
				AP 0.34	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				KU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 30.10	
				CPX 0.00	
				ABA 19.77	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 130.00:CU 76.00:ZN 60.00:RB 10.00:SR 440.00:Y 10.00:ZR 30.00:NB 20.00:BA 100.00:

COMMENTS : AS AB20355 EXCEPT MAY BE SLIGHTLY MORE SILICEOUS. TAKEN 20CM ABOVE CONTACT WITH QTZ EYE FELSIC TUFF WHICH STARTS AT 72.2 M . 2% DISSEM PY

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 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:15:59

SAMPLE ID # AB20357

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87

FIELD NUMBER :

PROJECT # 1117

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

UTM ZONE : 10

GRID COORDINATES : E :

PROJECT : PE OPTION

SAMPLE TYPE : DRILL HOLE

DDH : PE-87-2

START DEPTH : 75.00

0.0 M : 0.0 EL : 0.0  
 END DEPTH : 75.10

FIELD NAME : VOLCANICLASTIC, FELSIC, LAPILLI, QUARTZ PORPHYRITIC, FELDSPAR PORPHYRITIC, CRYSTAL.

FINAL NAME :

ALTERATION : PERVASIVE, CHLORITIZATION, WEAK.

MINERALIZATION : DISSEMINATED AND BLSRS, 1-SZ, PYRITE.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 10-MAY-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 24-JUN-87

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES			
					MA20+K20	SI02	OL*	AB*
SI02	71.90	74.54	69.23	Q	32.42	MA20+K20 5.87	SI02 74.54	SUBALKALINE
AL203	12.00	12.44	13.62	C	0.07			
FE203	3.11	1.84	1.28	OR	3.32	OL*	4.93 NE*	33.40 Q*
FE0	0.00	1.25	0.97	AB	47.79			61.67 SUBALKALINE
CA0	1.69	1.75	1.74	AN	8.31	CPX	0.00 OL	0.00 OPX
MGO	1.84	1.91	2.64	LC	0.00			100.00 SUBALKALINE
NA20	5.12	5.31	9.56	NE	0.00	A	54.96 F	27.17 M
K20	0.54	0.56	0.66	KP	0.00			17.27 CALC-ALKALINE
TI02	0.27	0.28	0.20	AC	0.00	AL203	12.44	NORM PLAG
P205	0.06	0.06	0.05	DI	0.00			14.81 THOLEITIC
MNO	0.06	0.06	0.05	HE	0.00	AN	13.99	AB*
S	0.00	0.00	0.00	EN	5.28			80.43 OR
NID	0.00	0.00	0.00	ES	0.37			5.59 K-POOR SERIES
CR203	0.00	0.00	0.00	EO	0.00	CI	7.96	NORM PLAG
CO2	0.00	0.00	0.00	EA	0.00			14.81 DACITE
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	CALC-ALKALINE	DACITE
H2O-	0.00	0.00	0.00	LN	0.00	AL	72.61	FE
LOI	1.85	0.00	0.00	MT	1.92			13.32
				IL	0.39			MG
				CR	0.00			14.08
				HM	0.00	COLOR INDEX :	7.96	
				AP	0.13	WASHINGTON INDEX :	25.90	
				PO	0.00			
				NS	0.00			
				KS	0.00			
				RU	0.00			
				AG	0.00			
				OL	0.00			
				OPX	5.65			
				CPX	0.00			
				AB*	47.79			

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 30.00:CU 56.00:ZN 19.00:RB 20.00:SR 160.00:Y -10.00:ZR 80.00:NB 10.00:BA 150.00:

COMMENTS : QUARTZ EYE FELSIC TUFF LIGHT GREEN IN COLOUR 1-2X DISS PY

REPORT #2000

SAMPLE ID # AB20358

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87 FIELD NUMBER : PROJECT # 1117  
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13 PROJECT : PE OPTION  
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 SAMPLE TYPE : DRILL HOLE DDH : PE-87-2 START DEPTH : 78.80 END DEPTH : 78.90

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE,LAPILLI,QUARTZ PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : PERSVASIVE ,CHLORITIZATION,WEAK.  
 MINERALIZATION : DISSEMINATED AND BLEBS.1-SZ,PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT Z	NORMALIZED ANHYDROUS WT Z	NORMALIZED ANHYDROUS CATION Z	NORMS	CLASSIFICATIONS AND INDICES								
SI02	46.00	50.74	46.14	Q	0.16	NA20+K20	3.98	SI02	50.74	SUBALKALINE			
AL203	16.70	18.42	19.74	C	8.43	OLA	42.12	NEA	26.17	GA	31.70	SUBALKALINE	
FE203	11.90	2.49	1.71	OR	1.67	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE	
FE0	0.00	9.57	7.28	AB	32.57	A	14.85	F	44.03	M	41.12	THOLEIITIC	
CA0	2.29	2.53	2.46	AN	11.17	AL203			18.42	NORM	PLAG	25.54	CALC-ALKALINE
MGO	10.00	11.03	14.95	LC	0.00	AN	24.60	ABA	71.73	OR		3.67	K-POOR SERIES
NA20	3.35	3.70	6.51	NE	0.00	CI			45.64	NORM	PLAG	25.54	BASALT
K20	0.26	0.29	0.33	KP	0.00	JENSEN							HIGH MAGNESIUM THOLEIITIC BASALT
TIO2	0.76	0.84	0.57	AC	0.00	AL	44.45	FE	21.90	HG	33.65		
P205	0.16	0.18	0.14	DI	0.00	COLOR INDEX :			45.64				
MNO	0.20	0.22	0.17	HE	0.00	HASHIMOTO INDEX :			64.53				
S	0.00	0.00	0.00	EN	29.90								
NIO	0.00	0.00	0.00	ES	12.04								
CR203	0.00	0.00	0.00	EO	0.00								
CO2	0.00	0.00	0.00	FA	0.00								
H20+	0.00	0.00	0.00	WO	0.00								
H20-	0.00	0.00	0.00	LN	0.00								
LOI	7.39	0.00	0.00	MT	2.56								
TOTAL	90.65	100.00	100.00	IL	1.15								
				CR	0.00								
				HM	0.00								
				AP	0.36								
				PO	0.00								
				NS	0.00								
				KS	0.00								
				RU	0.00								
				AG	0.00								
				OL	0.00								
				OPX	41.94								
				CPX	0.00								
				ABA	32.57								
TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)													
CR	224.00:CU	708.00:ZN	278.00:RB	10.00:SR	112.00:Y	31.00:ZR	13.00:NB	19.00:BA	143.00:				

COMMENTS : MAY BE FELSIC IN COMP 5% DISS PY

==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
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SAMPLE ID # A20359

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0 CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NIS : 092913      GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 UTM ZONE : 10      DDH : PF-87-2      START DEPTH : 96.90      END DEPTH : 97.00  
 SAMPLE TYPE : DRILL HOLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION :  
 MINERALIZATION :  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	49.20	53.56	49.34	Q 2.37	NA20+K20 3.85 SI02 53.56 SUBALKALINE
AL203	16.70	18.18	19.74	C 0.00	
FE203	9.09	2.43	1.68	OR 0.70	OLA 30.13 NEA 33.52 Q* 36.35 SUBALKALINE
FE0	0.00	6.72	5.18	AB 33.34	
CA0	7.01	7.63	7.53	AN 32.33	CPX 11.93 OL 0.00 OPX 88.07 SUBALKALINE
Mg0	5.96	6.49	8.91	LC 0.00	
NA20	3.43	3.73	6.67	NE 0.00	A 20.02 F 46.26 M 33.71 THOLEIITIC
K20	0.11	0.12	0.14	KP 0.00	
TIO2	0.73	0.79	0.55	AC 0.00	AL203 18.18 NORM PLAG 49.23 CALC-ALKALINE
P205	0.18	0.20	0.15	DI 2.26	
MNO	0.13	0.14	0.11	HE 0.99	AN 48.70 AB* 50.24 OR 1.06 K-POOR SERIES
S	0.00	0.00	0.00	EN 16.68	
NIO	0.00	0.00	0.00	FS 7.30	CI 30.85 NORM PLAG 49.23 BASALT
CR203	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H20+	0.00	0.00	0.00	WD 0.00	JENSEN CALC-ALKALINE BASALT
H20-	0.00	0.00	0.00	LN 0.00	AL 54.58 EE 20.79 MG 24.63
LOI	3.93	0.00	0.00	MT 2.52	
TOTAL	91.85	100.00	100.00	IL 1.10	COLOR INDEX : 30.85 HASHIMOTO INDEX : 36.77
				CR 0.00	
				HM 0.00	
				AP 0.41	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 23.98	
				CPX 3.25	
				AB* 33.34	

TRACE ELEMENTS (P.P.M.) AU, RE, PI, PD, IR, OS, RH, RU, HG (P.P.P.)

CR 150.00:CU 456.00:ZN 84.00:RB 20.00:SR 350.00:Y 10.00:ZR 20.00:NB 10.00:BA 80.00:

COMMENTS : MOD SPOTTY EPIDOTIZATION CENTRED ON FELDSPAR XTALS AND LAPILLI 2% DISSEM AND FRACTURE CONTROLLED BY



==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
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SAMPLE ID # AB20360

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0 CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NIS : 092#13      GRID COORDINATES : E :      PROJECT : PF OPTION  
 UTM ZONE : 10      DDH : PE-87-2      START DEPTH : 116.50      N :      0.0 EL :      0.0  
 SAMPLE TYPE : DRILL HOLE      END DEPTH : 116.60

FIELD NAME : VOLCANICLASTIC.FELSIC,LAPILLI.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.  
 MINERALIZATION : ALONG FRACTURES,1-SZ,PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	50.20	53.96	49.82	Q 5.08	NA20+K20 4.13 SiO2 53.96 SUBALKALINE
Al2O3	17.30	18.59	20.24	C 2.91	
Fe2O3	9.76	2.44	1.70	OR 5.51	OLA 33.77 NEA 28.01 OA 38.23 SUBALKALINE
FED	0.00	7.24	5.59	AB 28.57	
CaO	5.18	5.57	5.51	AN 26.28	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MgO	6.41	6.89	9.48	LC 0.00	
Na2O	2.97	3.19	5.71	NE 0.00	A 20.18 F 46.14 M 33.68 THOLEIITIC
K2O	0.87	0.94	1.10	KP 0.00	
TiO2	0.77	0.83	0.57	AC 0.00	AL2O3 18.59 NORM FLAG 47.91 CALC-ALKALINE
P2O5	0.18	0.19	0.15	DI 0.00	
MnO	0.15	0.16	0.13	HE 0.00	AN 43.53 ABA 47.33 OR 9.13 AVERAGE SERIES
S	0.00	0.00	0.00	EM 18.96	
NiO	0.00	0.00	0.00	FS 8.59	CI 31.25 NORM FLAG 47.91 BASALT
CR2O3	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN 0.00	AL 53.67 EE 21.19 MG 25.14
LOI	4.54	0.00	0.00	MT 2.54	
TOTAL	93.04	100.00	100.00	IL 1.15	COLOR INDEX : 31.25
				CK 0.00	HASHINOTO INDEX : 47.18
				HM 0.00	
				AP 0.40	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 27.56	
				CPX 0.00	
				ABA 28.57	

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 120.00:CU 347.00:ZN 66.00:RB 20.00:SR 240.00:Y 20.00:ZR 20.00:NB 10.00:BA 450.00:

COMMENTS : WEAK SPOITY EPIDOTIZATION AX FRACTURE CONTROLLED PYRITE

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:18:41

SAMPLE ID # AB20361

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-2 START DEPTH : 123.50 END DEPTH : 123.60

FIELD NAME : VOLCANICLASTIC, FELSIC, LAPILLI, QUARTZ PORPHYRITIC, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .CHLORITIZATION, WEAK.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	76.40	78.38	73.06	Q 40.14	NA20+K20 5.70 SI02 78.38 SUBALKALINE
AL203	11.30	11.59	12.74	C 1.79	
FE203	1.53	1.57	1.10	OR 5.86	OLA 4.38 NEX 29.10 OX 66.52 SUBALKALINE
FEO	0.00	0.00	0.00	AB 42.64	
CAO	0.65	0.67	0.67	AN 3.13	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MGO	1.80	1.85	2.57	LC 0.00	
NA20	4.60	4.72	8.53	NE 0.00	A 63.64 F 15.76 M 20.60 CALC-ALKALINE
K2O	0.96	0.98	1.17	KP 0.00	
TI02	0.16	0.16	0.12	AC 0.00	AL203 11.59 NORM PLAG 6.83 THOLEITIC
P205	0.03	0.03	0.02	DI 0.00	
MNO	0.04	0.04	0.03	HE 0.00	AN 6.06 ABX 82.59 OR 11.35 AVERAGE SERIES
S	0.00	0.00	0.00	EN 5.13	
NIO	0.00	0.00	0.00	FS 0.00	CI 6.30 NORM PLAG 6.83 RHYOLITE
CR203	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	EA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE DACITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 76.96 FE 7.54 MG 15.50
L01	1.31	0.00	0.00	MI 0.00	
TOTAL	97.47	100.00	100.00	IL 0.06	COLOR INDEX : 6.30 HASHIMOTO INDEX : 34.46
				CR 0.00	
				HM 1.10	
				AP 0.06	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.08	
				AG 0.00	
				OL 0.00	
				OPX 5.13	
				CPX 0.00	
				ABX 42.64	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 25.00:CU 42.00:ZN 18.00:RB -10.00:SR 29.00:Y -10.00:ZR 60.00:NB 11.00:BA 1030.00:

COMMENTS :

==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:19:22

SAMPLE ID # AR20362

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :  
 DDH : PF-87-2

PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 0.0 N : 0.0 EL : 0.0  
 START DEPTH : 130.10 END DEPTH : 130.20

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, MATRIX SUPPORTED.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WI %	NORMALIZED ANHYDROUS WI %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SiO2	51.10	54.19	50.44	Q	7.89	NA2O+K2O	2.60	SiO2	54.19	SUBALKALINE		
Al2O3	17.10	18.14	19.90	C	0.00							
Fe2O3	9.32	2.39	1.67	OR	0.57	OL*	33.85	NE*	24.40	OR*	41.75	SUBALKALINE
FeO	0.00	6.75	5.25	AB	22.58							
CaO	7.85	8.33	8.30	AN	38.17	CPX	6.46	OL	0.00	OPX	93.54	SUBALKALINE
MgO	6.10	6.47	8.97	LC	0.00							
Na2O	2.36	2.50	4.52	NE	0.00	A	14.47	F	49.52	M	36.02	THOLEIITIC
K2O	0.09	0.10	0.11	KP	0.00							
TiO2	0.75	0.80	0.56	AC	0.00	Al2O3	18.14	NORM	PLAG	62.83	62.83	CALC-ALKALINE
P2O5	0.17	0.18	0.14	DI	1.20							
MnO	0.16	0.17	0.13	HE	0.53	AN	62.25	AB*	36.83	OR	0.93	K-POOR SERIES
S	0.00	0.00	0.00	EN	17.35							
NiO	0.00	0.00	0.00	FS	7.72	CI	30.42	NORM	PLAG	62.83	62.83	BASALT
Cr2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	CALC-ALKALINE	BASALT				
H2O-	0.00	0.00	0.00	LN	0.00	AL	54.53	EE	20.87	MG	24.60	
LOI	3.54	0.00	0.00	MT	2.51							
TOTAL	94.29	100.00	100.00	IL	1.11							
				CR	0.00	COLOR INDEX :	30.42					
				HM	0.00	HASHIMOTO INDEX :	37.74					
				AP	0.38							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	25.07							
				CPX	1.73							
				AB*	22.58							
TRACE ELEMENTS (P.P.M.) AU, RE, PI, PD, IR, OS, RH, RU, HG (P.P.B.)												
CR	82.00:CU	143.00:ZN	60.00:RB	16.00:SR	415.00:Y	15.00:ZR	21.00:NB	18.00:BA	83.00:			

COMMENTS :

==== F A L C O N B R I D G E L I D ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:20:03

SAMPLE ID # AB20363

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 TIS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 133.10 END DEPTH : 133.20

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .CHLORITIZATION.WEAK.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	49.30	53.65	49.44	Q 4.80	NA20+K20 2.72 SiO2 53.65 SUBALKALINE
Al2O3	16.20	17.63	19.15	C 0.00	
Fe2O3	8.18	2.31	1.60	OR 0.77	OLA 36.87 NEA 25.27 Oa 37.87 SUBALKALINE
FeO	0.00	5.93	4.57	AB 23.14	
CaO	7.92	8.62	8.51	AN 35.92	CPX 15.23 OL 0.00 OPX 84.77 SUBALKALINE
MgO	7.55	8.22	11.28	LC 0.00	
Na2O	2.38	2.59	4.63	NE 0.00	A 14.36 F 42.28 H 43.36 THOLEIITIC
K2O	0.12	0.13	0.15	KP 0.00	AL2O3 17.63 NORM PLAG 60.82 CALC-ALKALINE
TI02	0.62	0.67	0.47	AC 0.00	AN 60.04 AbA 38.67 OR 1.28 K-POOR SERIES
P2O5	0.08	0.09	0.07	BI 3.72	CI 35.19 NORM PLAG 60.82 BASALT
MnO	0.15	0.16	0.13	HE 1.13	
S	0.00	0.00	0.00	EN 20.71	JENSEN CALC-ALKALINE BASALT
NiO	0.00	0.00	0.00	ES 6.30	AL 51.47 FE 18.19 MG 30.33
CR2O3	0.00	0.00	0.00	EO 0.00	
CO2	0.00	0.00	0.00	EA 0.00	COLOR INDEX : 35.19
H2O+	0.00	0.00	0.00	WO 0.00	HASHIMOTO INDEX : 42.68
H2O-	0.00	0.00	0.00	LN 0.00	
LOI	5.93	0.00	0.00	MI 2.40	
TOTAL	91.89	100.00	100.00	IL 0.94	
				CR 0.00	
				HM 0.00	
				AP 0.18	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 27.01	
				CPX 4.85	
				AbA 23.14	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 90.00:CU 550.00:ZN 53.00:RB 10.00:SR 200.00:Y -10.00:ZR 20.00:NB 20.00:BA 70.00:

COMMENTS : < 5% DARK LAPILLI SIZED ELONGATE CLASTS WHICH MAY BE FLAMME

==== F A L C O N B R I D G E L T D ====

=== EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
PRINTED 23-JUL-87  
12:20:44

SAMPLE ID # AB20364

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87

FIELD NUMBER :

PROJECT # 1117

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

PROJECT : PE OPTION

UTM ZONE : 10

GRID COORDINATES : E :

0.0 N : 0.0 EL : 0.0

SAMPLE TYPE : DRILL HOLE

DDH : PE-87-2

SIART DEPTH : 149.10

END DEPTH : 149.20

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.

FINAL NAME :

ALTERATION : PERVASIVE, CHLORITIZATION, MODERATE.

MINERALIZATION : NIL, NIL, NO COMMENT.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 10-MAY-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 24-JUN-87

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %									
SI02	50.40	53.47	48.88	Q	0.34	NA20+K20	4.74	SI02	53.47	SUBALKALINE		
AL203	17.80	18.88	20.35	C	1.15							
FE203	9.23	2.47	1.70	OR	2.23	OLA	30.00	NE*	35.68	QA	34.32	SUBALKALINE
FE0	0.00	6.59	5.04	AB	38.64							
CA0	5.50	5.84	5.72	AN	27.55	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MGO	6.44	6.83	9.31	LC	0.00							
NA20	4.11	4.36	7.73	NE	0.00	A	23.26	F	43.22	M	33.52	THOLEIITIC
K20	0.36	0.38	0.45	KP	0.00							
TI02	0.83	0.88	0.61	AC	0.00	AL203		18.88	NORM	PLAG	41.62	CALC-ALKALINE
P205	0.15	0.16	0.12	DI	0.00							
MNO	0.13	0.14	0.11	HE	0.00	AN	40.27	ABA*	56.47	OR	3.26	K-POOR SERIES
S	0.00	0.00	0.00	EN	18.62							
NIO	0.00	0.00	0.00	FS	7.37	CI		29.75	NORM	PLAG	41.62	BASALT
CR203	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN						
H2O-	0.00	0.00	0.00	LN	0.00	AL	54.84	FE	20.07	HG	25.09	CALC-ALKALINE BASALT
LOI	3.77	0.00	0.00	MT	2.55							
TOTAL	94.26	100.00	100.00	IL	1.21							
				CR	0.00	COLOR INDEX :		29.75				
				HM	0.00	HASHIMOTO INDEX :		41.44				
				AP	0.33							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	25.99							
				CPX	0.00							
				ABA*	38.64							

TRACE ELEMENTS (P.P.M.) AU, RE, PI, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 90.00:CU 373.00:ZN 53.00:RE 10.00:SR 280.00:Y 10.00:ZR 40.00:NB 10.00:BA 100.00:

COMMENTS : MOD SPOTTY EPIDOTIZATION

==== FALCONBRIDGE LTD =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:21:25

SAMPLE ID # AB20365

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 161.60 END DEPTH : 161.70

FIELD NAME : VOLCANICLASTIC.FELSIC,LAPILLI,QUARTZ PORPHYRITIC,FELDSPAR PORPHYRITIC,CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.  
 MINERALIZATION : NIL ,NIL ,NO COMMENT.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	72.00	73.58	68.03	Q 28.54	NA20+K20 6.88 SI02 73.58 SUBALKALINE
AL203	14.00	14.31	15.59	C 0.40	
FE203	1.99	1.81	1.26	OR 7.66	OL* 2.27 NE* 37.04 Q* 60.69 SUBALKALINE
FEO	0.00	0.20	0.16	AB 50.01	
CAO	1.90	1.94	1.92	AN 9.15	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
HGO	0.87	0.89	1.23	LC 0.00	
NA20	5.46	5.58	10.00	NE 0.00	A 71.67 F 19.07 M 9.26 CALC-ALKALINE
K20	1.27	1.30	1.53	KP 0.00	
TIO2	0.27	0.28	0.19	AC 0.00	AL203 14.31 NORM PLAG 15.47 CALC-ALKALINE
P2O5	0.07	0.07	0.06	DI 0.00	
MNO	0.04	0.04	0.03	HE 0.00	AN 13.69 AB* 74.84 OR 11.47 AVERAGE SERIES
S	0.00	0.00	0.00	EN 2.45	
NI0	0.00	0.00	0.00	FS 0.00	CI 4.09 NORM PLAG 15.47 RHYOLITE
CR203	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE RHYOLITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 84.48 FE 8.88 HG 6.64
LOI	1.00	0.00	0.00	MT 0.00	
				IL 0.38	
TOTAL	97.85	100.00	100.00	CR 0.00	COLOR INDEX : 4.09
				HM 1.26	HASHIMOTO INDEX : 22.53
				AP 0.15	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 2.45	
				CPX 0.00	
				AB* 50.01	

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,KH,RU,HG (P.P.B.)

CR 20.00:CU 143.00:ZN 12.00:RB 21.00:SK 174.00:Y -10.00:ZR 104.00:NB 14.00:BA 506.00:

COMMENTS :

==== FALCONBRIDGE LTD =====  
 \*\*\* EXPLORATION DIVISION \*\*\*

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:22:08

SAMPLE ID # AB20366

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 162.60 END DEPTH : 162.70

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, QUARTZ PORPHYRITIC, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : UNKNOWN .LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% .PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATIISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES				
SiO2	51.10	53.62	48.50	Q 0.00	NA20+K20 6.69 SiO2 53.62 ALKALINE				
Al2O3	20.50	21.51	22.93	C 0.41					
Fe2O3	6.80	2.40	1.64	OR 4.61	OLA 18.16 NE* 49.44 QA 32.40 ALKALINE				
FeO	0.00	4.26	3.22	AB 50.84					
CaO	5.84	6.13	5.94	AN 28.15	CPX 0.00 OL 100.00 OPX 0.00 SUBALKALINE				
MgO	4.02	4.22	5.69	LC 0.00					
Na2O	5.62	5.90	10.34	NE 0.52	A 38.62 F 37.04 M 24.34 THOLEIITIC				
K2O	0.76	0.80	0.92	KP 0.00					
TiO2	0.79	0.83	0.56	AC 0.00	AL2O3 21.51 NORM PLAG 35.25 CALC-ALKALINE				
P2O5	0.23	0.24	0.18	DI 0.00					
MnO	0.09	0.09	0.07	HE 0.00	AN 33.33 ABA 61.22 OR 5.45 SODIC				
S	0.00	0.00	0.00	EN 0.00					
NiO	0.00	0.00	0.00	FS 0.00	CI 14.98 NORM PLAG 35.25 HAWAIIITE				
CR2O3	0.00	0.00	0.00	FO 8.53					
CO2	0.00	0.00	0.00	FA 2.87					
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE ANDESITE				
H2O-	0.00	0.00	0.00	LN 0.00	AL 67.23 FE 16.10 MG 16.67				
LOI	2.62	0.00	0.00	MT 2.45					
TOTAL	95.30	100.00	100.00	IL 1.13	COLOR INDEX : 14.98				
				CR 0.00	HASHIMOTO INDEX : 29.43				
				HM 0.00					
				AP 0.49					
				PO 0.00					
				NS 0.00					
				KS 0.00					
				RU 0.00					
				AG 0.00					
				OL 11.40					
				OPX 0.00					
				CPX 0.00					
				ABA 51.71					
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)									
CR	30.00:CU	528.00:ZN	58.00:RB	20.00:SR	510.00:Y	30.00:ZR	20.00:NB	20.00:BA	310.00:

COMMENTS : WEAK TO MODERATE EPIDOTIZATION

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:22:49

SAMPLE ID # AB20367

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87

FIELD NUMBER :

PROJECT # 1117-

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

GRID COORDINATES : E :

PROJECT : PF OPTION

UTM ZONE : 10

DDH : PF-87-2

0.0 N : 0.0 EL : 0.0

SAMPLE TYPE : DRILL HOLE

START DEPTH : 166.50 END DEPTH : 166.60

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC,FELDSPAR PORPHYRITIC,CRYSTAL.

FINAL NAME :

ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.

MINERALIZATION : NIL ,NIL ,NO COMMENT.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 10-MAY-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 24-JUN-87

TECHNIQUE : X-RAY FLUORESCENCE

	WT Z	NORMALIZED ANHYDROUS WT Z	NORMALIZED ANHYDROUS CATION Z	NORMS
SI02	71.60	73.20	66.86	Q 23.78
AL2O3	14.20	14.52	15.63	C 0.11
FE2O3	1.47	1.50	1.03	OR 4.11
FE0	0.00	0.00	0.00	AB 60.02
CAO	1.44	1.47	1.44	AN 6.74
MGO	1.37	1.40	1.91	LC 0.00
NA2O	6.63	6.78	12.00	NE 0.00
K2O	0.69	0.71	0.82	KP 0.00
TIO2	0.30	0.31	0.21	AC 0.00
P2O5	0.07	0.07	0.06	DI 0.00
MNO	0.04	0.04	0.03	HE 0.00
S	0.00	0.00	0.00	EN 3.81
NIO	0.00	0.00	0.00	ES 0.00
CR2O3	0.00	0.00	0.00	FO 0.00
CO2	0.00	0.00	0.00	FA 0.00
H2O+	0.00	0.00	0.00	WO 0.00
H2O-	0.00	0.00	0.00	LN 0.00
LOI	1.00	0.00	0.00	HI 0.00
TOTAL	97.81	100.00	100.00	IL 0.06
				CR 0.00
				HM 1.03
				AP 0.15
				FO 0.00
				NS 0.00
				KS 0.00
				RU 0.18
				AG 0.00
				OL 0.00
				OPX 3.81
				CPX 0.00
				ABA 60.02

CLASSIFICATIONS AND INDICES

NA2O+K2O	7.48	SI02	73.20	SUBALKALINE		
OLA	3.26	NE*	41.10	Q*	55.63	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	73.11	F	13.21	M	13.68	CALC-ALKALINE
AL2O3	14.52	NORM PLAG	10.10	CALC-ALKALINE		
AN	9.51	ABA	84.68	OR	5.81	K-POOR SERIES
CI	4.91	NORM PLAG	10.10	RHYOLITE		
JENSEN	CALC-ALKALINE	RHYOLITE				
AL	83.09	FE	6.78	HG	10.14	

COLOR INDEX : 4.91  
 HASHIMOTO INDEX : 20.34

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 26.00:CU 253.00:ZN 21.00:RB -10.00:SR 183.00:Y -10.00:ZR 104.00:NB -10.00:BA 270.00:

COMMENTS :



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 --- EXPLORATION DIVISION ---

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:23:31

SAMPLE ID # AB20368

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-2 START DEPTH : 176.30 END DEPTH : 176.40

FIELD NAME : VOLCANICLASTIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL ,NIL ,NO COMMENT.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS
SiO2	51.40	53.91	49.51	Q 0.73
Al2O3	16.30	17.10	18.50	C 0.00
Fe2O3	8.35	2.28	1.57	OR 0.68
FeO	0.00	5.83	4.48	AN 36.69
CaO	9.04	9.48	9.33	AN 27.58
MgO	5.85	6.14	8.40	LC 0.00
Na2O	3.93	4.12	7.34	NE 0.00
K2O	0.11	0.12	0.14	KP 0.00
TiO2	0.67	0.70	0.49	AC 0.00
P2O5	0.16	0.17	0.13	DI 10.30
MnO	0.15	0.16	0.12	HE 4.08
S	0.00	0.00	0.00	EN 11.64
NiO	0.00	0.00	0.00	FS 4.62
Cr2O3	0.00	0.00	0.00	FO 0.00
CO2	0.00	0.00	0.00	FA 0.00
H2O+	0.00	0.00	0.00	WO 0.00
H2O-	0.00	0.00	0.00	LN 0.00
LOI	2.70	0.00	0.00	MT 2.36
TOTAL	95.34	100.00	100.00	IL 0.97
				CR 0.00
				HM 0.00
				AP 0.35
				PO 0.00
				NS 0.00
				KS 0.00
				RU 0.00
				AG 0.00
				OL 0.00
				OPX 16.26
				CPX 14.38
				ABA 36.69

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.24 SiO2 53.91 SUBALKALINE  
 OLA 22.72 NEX 41.01 O\* 36.27 SUBALKALINE  
 CPX 46.94 OL 0.00 OPX 53.06 SUBALKALINE  
 A 23.21 F 43.17 H 33.61 THOLEIITIC  
 AL2O3 17.10 NORM PLAG 42.91 CALC-ALKALINE  
 AN 42.46 AW\* 56.50 OR 1.04 K-POOR SERIES  
 CI 33.98 NORM PLAG 42.91 BASALT  
 JENSEN CALC-ALKALINE BASALT  
 AL 55.14 FE 19.84 HG 25.02

COLOR INDEX : 33.98  
 HASHIMOTO INDEX : 31.48

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.M.)

CR 150.00:CU 508.00:ZN 48.00:RE 10.00:SE 380.00:Y -10.00:ZR 30.00:NB 10.00:BA 50.00:

COMMENTS :

==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:24:12

SAMPLE ID # AB20369

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :  
 DDH : PF-87-2

PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 0.0 N : 0.0 EL : 0.0  
 START DEPTH : 194.40 END DEPTH : 194.50

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : ALONG FRACTURES, 1-SZ, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS	CLASSIFICATIONS AND INDICES						
SiO2	56.50	59.79	55.34	Q	11.91	NA20+K20	4.71	SiO2	59.79	SUBALKALINE		
Al2O3	16.20	17.14	18.70	C	0.34							
Fe2O3	7.35	2.24	1.56	OR	5.32	OLA	21.51	NEA	31.73	Q*	46.76	SUBALKALINE
FeO	0.00	4.98	3.85	AB	34.18							
CaO	5.17	5.47	5.43	AN	26.16	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
HgO	4.51	4.77	6.58	LC	0.00							
Na2O	3.60	3.81	6.84	NE	0.00	A	28.57	F	42.47	M	28.96	THOLEIITIC
K2O	0.85	0.90	1.06	KP	0.00							
TiO2	0.62	0.66	0.46	AC	0.00	AL2O3	17.14	NORM	PLAG	43.35		CALC-ALKALINE
P2O5	0.14	0.15	0.12	DI	0.00							
MnO	0.08	0.08	0.07	HE	0.00	AN	39.84	AB*	52.06	OR	8.10	AVERAGE SERIES
S	0.00	0.00	0.00	EN	13.17							
NiO	0.00	0.00	0.00	FS	5.37	CI	21.79	NORM	PLAG	43.35		ANDESITE
Cr2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN	CALC-ALKALINE BASALT					
H2O-	0.00	0.00	0.00	LN	0.00	AL	59.89	EE	19.02	HG	21.08	
LOI	3.31	0.00	0.00	HT	2.34							
				IL	0.91							
TOTAL	94.50	100.00	100.00	CR	0.00	COLOR INDEX :	21.79					
				HM	0.00	HASHIMOTO INDEX :	37.93					
				AP	0.31							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				DL	0.00							
				OPX	18.53							
				CPX	0.00							
				AB*	34.18							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 110.00:CU 809.00:ZN 42.00:RB 10.00:SR 270.00:Y 20.00:ZR 40.00:NB 10.00:BA 400.00:

COMMENTS : MODERATE SPOTTY EPIDOTIZATION 2-3X FRACTURE CONTROLLED PY

==== F A L C O N B R I D G E L I D =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:24:53

SAMPLE ID # AB20370

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NIS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 205.00 END DEPTH : 205.10

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	56.40	59.35	55.08	Q 12.10	NA20+K20 4.56 SI02 59.35 SUBALKALINE
AL2O3	17.20	18.10	19.80	C 0.00	
FE2O3	6.79	2.23	1.56	OR 4.99	OLA 17.30 NEA 33.89 QA 48.81 SUBALKALINE
FEO	0.00	4.42	3.43	AB 33.42	
CAO	6.45	6.79	6.75	AN 30.30	CPX 12.72 OL 0.00 OPX 87.28 SUBALKALINE
MGO	3.47	3.65	5.05	LC 0.00	
NA2O	3.53	3.71	6.68	NE 0.00	A 31.13 F 43.92 M 24.95 THOLEIITIC
K2O	0.80	0.84	1.00	KP 0.00	
TIO2	0.62	0.65	0.46	AC 0.00	AL2O3 18.10 NORM PLAG 47.55 CALC-ALKALINE
P2O5	0.14	0.15	0.12	DI 1.37	
MNO	0.09	0.09	0.07	HE 0.62	AN 44.10 ABA 48.64 OR 7.26 AVERAGE SERIES
S	0.00	0.00	0.00	EN 9.42	
NIO	0.00	0.00	0.00	FS 4.24	CI 18.89 NORM PLAG 47.55 ANDESITE
CR2O3	0.00	0.00	0.00	EO 0.00	
CO2	0.00	0.00	0.00	EA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE ANDESITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 65.19 FE 18.18 MG 16.63
LOI	2.85	0.00	0.00	MT 2.34	
TOTAL	95.02	100.00	100.00	IL 0.91	COLOR INDEX : 18.89
				CR 0.00	HASHIMOTO INDEX : 29.96
				HM 0.00	
				AP 0.31	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 13.65	
				CPX 1.99	
				ABA 33.42	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 40.00:CU 670.00:ZN 48.00:RB -10.00:SR 410.00:Y -10.00:ZR 60.00:NB 20.00:BA 310.00:

COMMENTS : STRONGLY EPIDOTE SPOTTED 1% PY

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:25:35

SAMPLE ID # AB20371

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-2 START DEPTH : 206.60 END DEPTH : 206.70

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH.  
 FINAL NAME :  
 ALTERATION : PERVASIVE, CHLORITIZATION, MODERATE.  
 MINERALIZATION : ALONG FRACTURES, 1-SX, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	59.20	62.72	57.78	Q	17.89
AL203	15.80	16.74	18.18	C	5.37
FE203	6.88	2.24	1.55	OR	5.11
FE0	0.00	4.55	3.50	AB	38.03
CAO	2.17	2.30	2.27	AN	10.45
MGO	5.13	5.44	7.46	LC	0.00
NA2O	4.02	4.26	7.61	NE	0.00
K2O	0.82	0.87	1.02	KP	0.00
TIO2	0.61	0.65	0.45	AC	0.00
P2O5	0.13	0.14	0.11	DI	0.00
MNO	0.10	0.11	0.08	HE	0.00
S	0.00	0.00	0.00	EN	14.92
NIO	0.00	0.00	0.00	FS	4.73
CR203	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	3.54	0.00	0.00	MT	2.32
				IL	0.90
TOTAL	94.38	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.29
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				UL	0.00
				OPX	19.65
				CPX	0.00
				ABA	38.03

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.13 SI02 62.72 SUBALKALINE  
 OL\* 19.50 NE\* 30.20 Q\* 50.30 SUBALKALINE  
 CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE  
 A 29.95 F 38.31 H 31.74 THOLEIITIC  
 AL203 16.74 NORM PLAG 21.55 CALC-ALKALINE  
 AN 19.50 ABA 70.97 OR 9.54 AVERAGE SERIES  
 CI 22.87 NORM PLAG 21.55 ANDESITE  
 JENSEN CALC-ALKALINE BASALT  
 AL 58.22 FE 17.88 MG 23.90  
 COLOR INDEX : 22.87  
 HASHIMOTO INDEX : 49.01

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 42.00:CU 360.00:ZN 70.00:RB -10.00:SR 143.00:Y -10.00:ZR 58.00:NB 10.00:BA 357.00:

COMMENTS : SILICEOUS GREEN TUFF WITH 3% FRACTURE CONTROLLED PY

\*\*\*\* F A L C O N B R I D G E L T D \*\*\*\*  
 \*\*\* EXPLORATION DIVISION \*\*\*

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:26:16

SAMPLE ID # A920372

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0      CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NIS : 092B13      PROJECT : PF OPTION  
 UTM ZONE : 10      GRID COORDINATES : E :      0.0      N :      0.0      EL :      0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PE-87-2      START DEPTH : 217.00      END DEPTH : 217.10

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .CHLORITIZATION, MODERATE.  
 MINERALIZATION : ALONG FRACTURES, 1-SX, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	54.40	58.06	53.18	Q 4.45	NA2O+K2O 5.68 SI02 58.06 SUBALKALINE
AL2O3	16.60	17.72	19.13	C 0.00	
FE2O3	7.42	2.26	1.56	OR 1.00	OL* 15.09 NE* 43.93 Q* 40.98 SUBALKALINE
FED	0.00	5.09	3.90	AB 48.89	
CAO	5.91	6.31	6.19	AN 22.87	CPX 30.35 OL 0.00 OPX 69.65 SUBALKALINE
MGO	3.71	3.96	5.40	LC 0.00	
NA2O	5.16	5.51	9.78	NE 0.00	A 33.87 F 42.51 M 23.62 THOLEIITIC
K2O	0.16	0.17	0.20	KP 0.00	
TIO2	0.62	0.66	0.46	AC 0.00	AL2O3 17.72 NORM PLAG 31.87 CALC-ALKALINE
P2O5	0.11	0.12	0.09	DI 3.87	
MNO	0.14	0.15	0.12	HE 1.99	AN 31.43 AB* 67.20 OR 1.37 K-POOR SERIES
S	0.00	0.00	0.00	EN 8.88	
NIO	0.00	0.00	0.00	FS 4.56	CI 22.55 NORM PLAG 31.87 ANDESITE
CR2O3	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE ANDESITE
H2O-	0.00	0.00	0.00	LH 0.00	AL 62.58 FE 19.73 MG 17.69
LOI	3.54	0.00	0.00	HI 2.34	
TOTAL	93.70	100.00	100.00	IL 0.91	COLOR INDEX : 22.55 HASHIMOTO INDEX : 25.90
				CR 0.00	
				HH 0.00	
				AP 0.24	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 13.44	
				CPX 5.86	
				AB* 48.89	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 30.00:CU 506.00:ZN 62.00:RB -10.00:SR 270.00:Y -10.00:ZR 40.00:NB -10.00:BA 80.00:

COMMENTS : MAY BE FELSIC. SEVERAL CARB VEINLETS IN SAMPLE 3% PYRITE

==== FALCONBRIDGE LTD =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:26:58

SAMPLE ID # AB20373

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 GRID COORDINATES : E : PROJECT : PE OPTION  
 DDH : PF-87-2 START DEPTH : 0.0 N : 0.0 EL : 0.0  
 END DEPTH : 221.40

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH.  
 FINAL NAME :  
 ALTERATION : PERVASIVE CHLORITIZATION, MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-5%, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS	CLASSIFICATIONS AND INDICES						
SiO2	54.40	57.99	53.09	Q	11.05	NA2O+K2O	5.37	SiO2	57.99	SUBALKALINE		
Al2O3	17.70	18.87	20.36	C	7.82	OLA	25.97	NE*	29.79	Q*	44.24	SUBALKALINE
Fe2O3	7.88	2.37	1.63	OR	8.41	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
FeO	0.00	5.43	4.16	AB	34.91	A	27.27	F	38.37	M	34.36	THOLEIIC
CaO	2.01	2.14	2.10	AN	9.68	AL2O3	18.87	NORM	PLAG	21.71		CALC-ALKALINE
MgO	6.35	6.77	9.24	LC	0.00	AN	18.27	AB*	65.86	OR	15.87	AVERAGE SERIES
Na2O	3.69	3.93	6.98	NE	0.00	CI	27.85	NORM	PLAG	21.71		ANDESITE
K2O	1.35	1.44	1.68	KP	0.00	JENSEN CALC-ALKALINE BASALT						
TiO2	0.72	0.77	0.53	AC	0.00	AL	56.50	FE	17.87	Mg	25.63	
P2O5	0.12	0.13	0.10	DI	0.00	COLOR INDEX : 27.85						
MnO	0.15	0.16	0.12	HE	0.00	HASHIMOTO INDEX : 57.46						
S	0.00	0.00	0.00	EN	18.47							
NiO	0.00	0.00	0.00	ES	5.87							
Cr2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LUI	4.39	0.00	0.00	MI	2.45							
TOTAL	93.80	100.00	100.00	IL	1.06							
				CR	0.00							
				HM	0.00							
				AP	0.26							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	24.35							
				CPX	0.00							
				AB*	34.91							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 50.00:CU 126.00:ZN 87.00:RB 40.00:SR 110.00:Y -10.00:ZR 50.00:NB 20.00:BA 280.00:

COMMENTS : 1 % PYRITE

==== FALCONBRIDGE LTD =====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:27:39

SAMPLE ID # AB20374

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAP REPORT # 20-MAY-87  
 TOWNSHIP :  
 NIS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :  
 DDH : PE-87-2

PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 0.0 N : 0.0 EL : 0.0  
 START DEPTH : 235.30 END DEPTH : 235.40

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : UNKNOWN .LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLSRS, 1-SX, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES				
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %		NA2O+K2O	3.92	SiO2	57.68	SUBALKALINE
SiO2	55.10	57.68	53.52	Q	10.46					
AL2O3	17.60	18.42	20.15	C	0.00					
FE2O3	7.51	2.30	1.61	OR	0.87	OLA 18.88	NEA 34.31	QA 46.82		SUBALKALINE
FeO	0.00	5.00	3.88	AB	33.89					
CaO	7.29	7.63	7.59	AN	32.99	CPX 17.09	OL 0.00	OPX 82.91		SUBALKALINE
MgO	3.85	4.03	5.57	LC	0.00					
NA2O	3.60	3.77	6.78	NE	0.00	A 26.07	F 47.10	M 26.83		THOLEIITIC
K2O	0.14	0.15	0.17	KP	0.00					
TiO2	0.70	0.73	0.51	AC	0.00	AL2O3 18.42	NORM PLAG 49.33			CALC-ALKALINE
P2O5	0.16	0.17	0.13	DI	2.08					
MnO	0.11	0.12	0.09	HE	0.99	AN 48.69	ABA 50.03	OR 1.28		K-POOR SERIES
S	0.00	0.00	0.00	EN	10.10					
NiO	0.00	0.00	0.00	FS	4.82	CI 21.43	NORM PLAG 49.33			BASALT
CR2O3	0.00	0.00	0.00	FO	0.00					
CO2	0.00	0.00	0.00	FA	0.00					
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN CALC-ALKALINE ANDESITE				
H2O-	0.00	0.00	0.00	LN	0.00	AL 63.34	FE 19.15	MG 17.52		
LOI	2.70	0.00	0.00	MT	2.41					
TOTAL	95.53	100.00	100.00	IL	1.02					
				CR	0.00	COLOR INDEX :	21.43			
				HM	0.00	HASHIMOTO INDEX :	26.81			
				AP	0.35					
				PO	0.00					
				NS	0.00					
				KS	0.00					
				RU	0.00					
				AG	0.00					
				OL	0.00					
				OPX	14.92					
				CPX	3.08					
				ABA	33.89					

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 27.00:CU 354.00:ZN 53.00:RB 13.00:SR 533.00:Y 19.00:ZR 46.00:NB 19.00:BA 171.00:

COMMENTS : MOD EPIDOTIZATION CENTRED ON FELDSPAR XTALS . LZ DISSEM PY

==== FALCONBRIDGE LTD ====  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:28:20

SAMPLE ID # AB20375

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 0.0 N : 0.0  
 DDH : PF-87-2 START DEPTH : 245.00

PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 EL : 0.0  
 END DEPTH : 245.10

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLED, 1-SX, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 10-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	54.40	57.54	52.62	Q	6.34	NA20+K20	5.81	SI02	57.54	SUBALKALINE		
AL203	18.20	19.25	20.75	C	2.89							
FE203	7.16	2.37	1.63	OR	5.56	OL*	19.99	NE*	38.35	Q*	41.66	SUBALKALINE
FE0	0.00	4.68	3.58	AB	43.03							
CA0	4.14	4.38	4.29	AN	20.36	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MGO	4.60	4.87	6.63	LC	0.00							
NA20	4.59	4.86	8.61	NE	0.00	A	33.21	F	38.97	M	27.82	THOLEIITIC
K20	0.90	0.95	1.11	KP	0.00							
TI02	0.74	0.78	0.54	AC	0.00	AL203		19.25	NORM	PLAG	32.12	CALC-ALKALINE
P205	0.16	0.17	0.13	BI	0.00							
MNO	0.14	0.15	0.11	HE	0.00	AN	29.53	ABA*	62.41	OR	8.06	AVERAGE SERIES
S	0.00	0.00	0.00	EN	13.26							
NIO	0.00	0.00	0.00	FS	4.68	CI		21.47	NORM	PLAG	32.12	ANDESITE
CR203	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H20+	0.00	0.00	0.00	WD	0.00	JENSEN						CALC-ALKALINE ANDESITE
H20-	0.00	0.00	0.00	LN	0.00	AL	62.41	FE	17.64	MG	19.95	
LOI	3.70	0.00	0.00	MT	2.45							
TOTAL	94.54	100.00	100.00	IL	1.08							
				CR	0.00	COLOR INDEX :		21.47				
				HM	0.00	HASHIMOTO INDEX :		38.65				
				AP	0.35							
				PD	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	17.95							
				CPX	0.00							
				ABA	43.03							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

CR 30.00:CU 596.00:ZN 87.00:RB -10.00:SR 310.00:Y -10.00:ZR 50.00:NB 40.00:BA 280.00:

COMMENTS : MAY BE FELSIC IN COMPOSITION MODERATE SPOTTY EPIDOTE ALTERATION



REPORT #2000

PAGE 1  
PRINTED 23-JUL-87  
12:29:02

SAMPLE ID # A#20376

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87  
TOWNSHIP :  
NTS : 092#13  
UTM ZONE : 10  
SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
PROJECT : PF OPTION  
GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
DDH : PF-87-2 START DEPTH : 255.20 END DEPTH : 255.30

FIELD NAME : IGNEOUS ,FELSIC,FINE,QUARTZ AND FELDSPAR PORPHYRITIC.  
FINAL NAME :  
ALTERATION : PERVASIVE .CHLORITIZATION.WEAK.  
MINERALIZATION : DISSEMINATED AND BLEBS,1-SZ.PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : KRAL

DATE : 12-MAY-87  
DATE : 24-JUN-87

ANALYTICAL  
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES					
SI02	75.10	76.53	70.37	Q 30.23	NA20+K20	7.17	SI02	76.53	SUBALKALINE	
AL203	12.80	13.04	14.14	C 0.00						
FE2O3	1.30	1.32	0.92	OR 3.17	OL*	1.53	NE*	38.89	GA* 59.58	SUBALKALINE
FEO	0.00	0.00	0.00	AB 59.13						
CAO	0.96	0.98	0.96	AN 4.19	CPX	13.45	OL	0.00	OPX 86.55	SUBALKALINE
MGO	0.72	0.73	1.01	LC 0.00						
NA2O	6.51	6.63	11.83	NE 0.00	A	78.84	F	13.10	M 8.06	CALC-ALKALINE
K2O	0.53	0.54	0.63	KP 0.00						
TIO2	0.17	0.17	0.12	AC 0.00	AL203		13.04	NORh	PLAG 6.62	CALC-ALKALINE
P2O5	0.04	0.04	0.03	DI 0.29						
MNO	0.00	0.00	0.00	HE 0.00	AN	6.30	ABA	88.93	OR 4.77	K-POOR SERIES
S	0.00	0.00	0.00	EN 1.87						
NIO	0.00	0.00	0.00	ES 0.00	CI		3.07	NORM	PLAG 6.62	RHYOLITE
CR2O3	0.00	0.00	0.00	FO 0.00						
CO2	0.00	0.00	0.00	FA 0.00						
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE RHYOLITE					
H2O-	0.00	0.00	0.00	LN 0.00	AL	87.38	FE	6.41	MG 6.21	
LOI	1.08	0.00	0.00	MT 0.00						
TOTAL	98.13	100.00	100.00	IL 0.00	COLOR INDEX : 3.07					
				CR 0.00	HASHIMOTO INDEX : 14.33					
				HM 0.92						
				AP 0.08						
				PO 0.00						
				NS 0.00						
				KS 0.00						
				RU 0.12						
				AG 0.00						
				OL 0.00						
				OPX 1.87						
				CPX 0.29						
				ABA 59.13						
TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)										
AU	-5.00:BE	2.00:B	10.00:SC	2.50:V	26.00:CR	-2.00:MN	150.00:CO	4.00:NI	3.00:	
CU	6.00:ZN	16.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:RB	-10.00:SR	112.00:Y	-10.00:	
ZR	61.00:NB	-10.00:MO	-5.00:AG	-0.50:CD	-1.00:SB	-0.20:CS	-0.50:BA	243.00:LA	3.90:	
CE	8.00:ND	-5.00:SM	0.50:EU	-0.20:TB	-0.50:YB	1.50:LU	0.32:HF	2.30:TA	-1.00:	
W	-3.00:IR	-20.00:PB	-2.00:TH	6.90:U	2.90:					

COMMENTS : QUARTZ FELDSPAR PORPHYRY 1% DISSEM PY . COMPARE WITH SALTSRING INTRUSION

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REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:29:46

SAMPLE ID # AB20377

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87

FIELD NUMBER :

PROJECT # 1117

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092#13

UIM ZONE : 10

SAMPLE TYPE : DRILL HOLE

GRID COORDINATES :

E : 0.0 N : 0.0 EL : 0.0

DDH : PF-87-2

START DEPTH : 257.60

END DEPTH : 257.70

FIELD NAME : IGNEOUS ,FELSIC,FINE.

FINAL NAME :

ALTERATION : PERVASIVE ,SERICITIZATION.WEAK.

MINERALIZATION : NIL ,NIL ,NO COMMENT.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 12-MAY-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 24-JUN-87

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	79.20	80.66	75.49	Q 43.26	NA2O+K2O 5.63 SiO2 80.66 SUBALKALINE
Al2O3	10.60	10.80	11.91	C 0.08	
Fe2O3	0.73	0.74	0.52	OR 5.54	OL* 1.91 NE* 29.04 OR 69.05 SUBALKALINE
FeO	0.00	0.00	0.00	AB 42.69	
CaO	1.12	1.14	1.14	AN 5.45	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MgO	0.79	0.80	1.12	LC 0.00	
Na2O	4.62	4.71	8.54	NE 0.00	A 79.26 F 9.41 N 11.32 CALC-ALKALINE
K2O	0.91	0.93	1.11	KP 0.00	
TiO2	0.18	0.18	0.13	AC 0.00	AL2O3 10.80 NORM PLAG 11.32 THOLEIITIC
P2O5	0.04	0.04	0.03	DI 0.00	
MnO	0.00	0.00	0.00	HE 0.00	AN 10.15 AB* 79.53 OR 10.32 AVERAGE SERIES
S	0.00	0.00	0.00	EN 2.24	
NiO	0.00	0.00	0.00	FS 0.00	CI 2.77 NORM PLAG 11.32 RHYOLITE
Cr2O3	0.00	0.00	0.00	FD 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE RHYOLITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 87.03 FE 4.77 MG 8.20
LOI	1.00	0.00	0.00	MT 0.00	
TOTAL	98.19	100.00	100.00	IL 0.00	COLOR INDEX : 2.77
				CR 0.00	HASHIMOTO INDEX : 22.85
				HM 0.52	
				AP 0.09	
				FO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.13	
				AG 0.00	
				OL 0.00	
				OPX 2.24	
				CPX 0.00	
				AB* 42.69	

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-5.00:RE	1.00:R	-10.00:SC	3.50:V	36.00:CR	-2.00:MN	180.00:CO	1.00:NI	4.00:
CU	5.50:ZN	15.00:GE	-10.00:AS	-2.00:SE	4.00:BR	-1.00:RB	20.00:SR	120.00:Y	10.00:
ZR	60.00:NB	-10.00:MO	-5.00:AG	-0.50:CD	-1.00:SB	-0.20:CS	-0.50:BA	270.00:LA	10.40:
CE	18.00:ND	-5.00:SM	1.30:EU	0.60:TB	-0.50:YB	1.20:LU	0.21:HF	2.40:TA	-1.00:
W	-3.00:IR	-20.00:PB	-2.00:TH	2.80:U	1.10:				

COMMENTS : SAME UNIT AS AB20376 BUT NON PORPHYRITIC

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:30:30

SAMPLE ID # AB20378

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 20-MAY-87      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0      CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      GRID COORDINATES : E :      0.0      N :      0.0      EL :      0.0  
 UTM ZONE : 10      DDH : PF-87-2      START DEPTH : 265.70      END DEPTH : 265.80  
 SAMPLE TYPE : DRILL HOLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC,CRYSTAL.  
 FINAL NAME :  
 ALTERATION : UNKNOWN ,LOOK AT COMMENTS.  
 MINERALIZATION : NIL ,NIL ,NO COMMENT.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 12-MAY-87  
 DATE : 24-JUN-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES				
SiO2	58.80	61.13	56.35	Q 12.54	NA2O+K2O 4.75 SiO2 61.13 SUBALKALINE				
Al2O3	16.00	16.63	18.07	C 0.00					
Fe2O3	6.34	2.21	1.54	OR 0.61	OLA 14.58 NE* 37.12 OA 48.30 SUBALKALINE				
FeO	0.00	3.94	3.04	AB 41.52					
CaO	5.99	6.23	6.15	AN 24.11	CPX 26.55 OL 0.00 OPX 73.45 SUBALKALINE				
MgO	4.06	4.22	5.80	LC 0.00					
Na2O	4.47	4.65	8.30	NE 0.00	A 31.88 F 39.80 H 28.32 THOLEITIC				
K2O	0.10	0.10	0.12	KP 0.00					
TiO2	0.63	0.65	0.45	AC 0.00	AL2O3 16.63 NORM PLAG 36.74 CALC-ALKALINE				
P2O5	0.11	0.11	0.09	DI 3.55					
MnO	0.11	0.11	0.09	HE 1.17	AN 36.40 AB* 62.68 OR 0.92 K-POOR SERIES				
S	0.00	0.00	0.00	EN 9.82					
NiO	0.00	0.00	0.00	ES 3.22	CI 20.97 NORM PLAG 36.74 ANDESITE				
Cr2O3	0.00	0.00	0.00	EO 0.00					
CO2	0.00	0.00	0.00	EA 0.00					
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE ANDESITE				
H2O-	0.00	0.00	0.00	LN 0.00	AL 62.35 FE 17.65 MG 20.00				
LOI	2.70	0.00	0.00	NI 2.30					
TOTAL	96.19	100.00	100.00	IL 0.91	COLOR INDEX : 20.97 HASHIMOTO INDEX : 28.45				
				CR 0.00					
				HM 0.00					
				AP 0.24					
				PO 0.00					
				NS 0.00					
				KS 0.00					
				RU 0.00					
				AG 0.00					
				OL 0.00					
				OPX 13.05					
				CPX 4.71					
				AB* 41.52					
TRACE ELEMENTS (P.P.M.) AU,RE,PI,PD,IR,OS,RH,RU,HG (P.P.B.)									
CR	30.00:CU	230.00:ZN	74.00:RB	10.00:SR	320.00:Y	20.00:ZR	50.00:NB	10.00:BA	60.00:

COMMENTS : MAY BE INTERMEDIATE IN COMP. ANGULAR CLAST SHAPED EPIDOTE PATCHES COMPRISE 30% OF THE SAMPLE

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:45:19

SAMPLE ID # AB20379

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918                      FIELD NUMBER :                      PROJECT # 1117  
 TOWNSHIP :                              LOT : 0    CONCESSION :                      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13                              PROJECT : PF OPTION  
 UTM ZONE : 10                              GRID COORDINATES :    E :                      0.0    N :                      0.0    EL :                      0.0  
 SAMPLE TYPE : DRILL HOLE                      DDH : PF-87-2                      START DEPTH : 277.80                      END DEPTH : 277.90

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : SPOTS ,EPIDOTIZATION ,MODERATE.  
 MINERALIZATION : NIL ,NIL ,NO COMMENT.  
 FORMATION :

SAMPLED BY : JOHN PATTISON                      DATE : 13-MAY-87                      ANALYTICAL  
 ANALYZED BY : XRAL                              DATE : 25-MAY-87                      TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS	CLASSIFICATIONS AND INDICES'						
SI02	50.50	17.16	10.58	Q	1.10	NA20+K20	1.23	SI02	17.16	ALKALINE		
AL2O3	16.70	5.67	4.12	C	0.00							
FE2O3	8.34	0.73	0.34	OR	0.37	OL*	17.99	NE*	39.22	Q*	42.79	SUBALKALINE
FeO	0.00	1.89	0.97	AB	6.76							
CaO	8.98	3.05	2.02	AN	6.74	CPX	50.34	OL	0.00	OPX	49.66	SUBALKALINE
MgO	5.99	2.04	1.87	LC	0.00							
NA2O	3.33	1.13	1.35	NE	0.00	A	21.11	F	43.87	M	35.02	THOLEIITIC
K2O	0.28	0.10	0.07	KP	0.00							
TiO2	0.66	0.22	0.10	AC	0.00	AL2O3		5.67	NORM	PLAG	49.92	THOLEIITIC
P2O5	0.13	0.04	0.02	DI	2.52							
MNO	0.00	0.00	0.00	HE	0.00	AN	48.57	AB*	48.73	OR	2.70	SODIC
S	200.00	67.96	78.54	EN	2.48							
NiO	0.00	0.00	0.00	ES	0.00	CI		5.34	NORM	PLAG	49.92	HAWAIIITE
CR2O3	0.00	0.00	0.00	EO	0.00							
CO2	0.00	0.00	0.00	EA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN						CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN	0.00	AL	55.63	EE	19.14	MG	25.23	
LOI	3.93	0.00	0.00	HI	0.00							
TOTAL	294.29	100.00	100.00	IL	77.56							
				CR	0.00	COLOR INDEX :						5.34
				HM	0.34	HASHIMOTO INDEX :						33.75
				AP	0.06							
				PO	157.08							
				NS	0.00							
				KS	0.00							
				RU	77.67							
				AG	0.00							
				OL	0.00							
				OPX	2.48							
				CPX	2.52							
				AB*	6.76							

TRACE ELEMENTS (P.P.M.)    AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	2.00:LI	-10.00:BE	-5.00:B	-10.00:V	310.00:CR	120.00:MN	890.00:CD	22.00:NI	26.00:
CU	57.00:ZN	65.00:GA	14.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	-10.00:SR	469.00:Y	-10.00:
ZR	-10.00:NB	-10.00:MO	2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	95.00:
LA	9.00:CE	17.00:ND	9.50:SM	2.30:EU	1.00:GD	2.40:DY	2.90:ER	1.90:LU	0.40:
HE	-1.00:TA	2.00:U	-3.00:PB	-2.00:RI	-0.50:TH	2.00:U	1.40:IN	-1.00:TL	-1.00:

COMMENTS : HORNBLENDE BEARING MAFIC-INTERMEDIATE TUFF

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
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SAMPLE ID # AB20380

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0      CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      PROJECT : PF OPTION  
 UTM ZONE : 10      GRID COORDINATES : E :      0.0      N :      0.0      EL :      0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PF-87-2      START DEPTH : 321.40      END DEPTH : 321.50

FIELD NAME : IGNEOUS ,MAFIC ,FINE,MASSIVE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN ,LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SiO2	52.80	1.76	0.95	Q	0.01	NA20+K20	0.21	SiO2	1.76	ALKALINE		
Al2O3	18.40	0.61	0.39	C	0.00							
Fe2O3	6.31	0.07	0.03	OR	0.13	OLA	10.49	NEA	50.82	QA	38.69	ALKALINE
FeO	0.00	0.12	0.06	AB	0.91							
CaO	6.49	0.22	0.13	AN	0.46	CPX	43.86	OL	0.00	OPX	56.14	SUBALKALINE
MgO	3.87	0.13	0.10	LC	0.00							
Na2O	5.18	0.17	0.18	NE	0.00	A	39.75	F	35.83	M	24.42	THOLEIITIC
K2O	1.12	0.04	0.03	KP	0.00							
TiO2	0.69	0.02	0.01	AC	0.00	AL2O3	0.61	NORM	PLAG	33.71	THOLEIITIC	
P2O5	0.16	0.01	0.00	DI	0.12							
MnO	0.00	0.00	0.00	HE	0.00	AN	30.80	ABA	60.57	OR	8.63	SODIC
S	2900.00	96.84	98.12	EN	0.15							
NiO	0.00	0.00	0.00	FS	0.00	CI	0.30	NORM	PLAG	33.71	MUGEARITE	
Cr2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	CALC-ALKALINE	ANDESITE				
H2O-	0.00	0.00	0.00	LN	0.00	AL	66.28	FE	16.10	MG	17.63	
LOI	3.85	0.00	0.00	HT	0.00							
TOTAL	*****	100.00	100.00	IL	98.07							

COLOR INDEX : 0.30  
 WASHINGTON INDEX : 29.95

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-1.00:LI	-10.00:BE	-5.00:B	-10.00:V	270.00:CR	48.00:MN	880.00:CO	19.00:NI	12.00:
CU	310.00:ZN	52.00:GA	15.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	24.00:SR	266.00:Y	11.00:
ZR	45.00:NB	13.00:MO	7.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	455.00:
LA	9.00:CE	17.00:NB	10.40:SM	2.40:EU	1.00:GB	2.60:DY	3.20:ER	2.00:LU	0.40:
HF	-1.00:TA	5.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.00:IN	-1.00:TL	-1.00:

COMMENTS : MODERATE PATCHY CARBONATIZATION SILICIFICATION AND EPIDOTIZATION

==== FALCONBRIDGE LTD =====  
 --- EXPLORATION DIVISION ---

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:46:48

SAMPLE ID # A820381

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918 FIELD NUMBER : PROJECT # 1117  
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 UTM ZONE : 10 DDH : PF-87-2 START DEPTH : 316.00 END DEPTH : 316.10  
 SAMPLE TYPE : DRILL HOLE

FIELD NAME : IGNEOUS MAEIC FINE, LOOK AT COMMENTS FILE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN, LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND BLESS, 1-SZ, PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	44.60	1.44	0.78	Q 0.14	NA2O+K2O 0.01 SiO2 1.44 ALKALINE
Al2O3	11.00	0.36	0.23	C 0.00	
Fe2O3	10.90	0.07	0.03	OR 0.01	OLA 56.98 NE* 1.73 Q* 41.29 SUBALKALINE
FeO	0.00	0.26	0.12	AB 0.02	
CaO	10.30	0.33	0.19	AN 0.55	CPX 39.45 OL 0.00 OPX 60.55 SUBALKALINE
MgO	12.50	0.40	0.33	LC 0.00	
Na2O	0.11	0.00	0.00	NE 0.00	A 0.80 F 43.61 M 55.59 THOLEIITIC
K2O	0.07	0.00	0.00	KP 0.00	
TiO2	0.53	0.02	0.01	AC 0.00	AL2O3 0.36 NORM PLAG 96.74 THOLEIITIC
P2O5	0.09	0.00	0.00	BI 0.32	
MnO	0.27	0.01	0.00	HE 0.00	AN 95.44 AB* 3.21 OR 1.35 SONIE
S	3000.00	97.10	98.31	EN 0.49	CI 0.84 NORM PLAG 96.74 BASALT
NiO	0.00	0.00	0.00	FS 0.00	
CR2O3	0.00	0.00	0.00	ED 0.00	
CO2	0.00	0.00	0.00	EA 0.00	JENSEN BASALTIC KUMATIITE
H2O+	0.00	0.00	0.00	WD 0.00	AL 32.07 FE 21.84 MG 46.08
H2O-	0.00	0.00	0.00	LN 0.00	
LOI	8.47	0.00	0.00	MT 0.00	
TOTAL	*****	100.00	100.00	IL 98.19	COLOR INDEX : 0.84 HASHIMOTO INDEX : 54.70
				CR 0.00	
				HM 0.03	
				AP 0.00	
				PO 196.63	
				NS 0.00	
				KS 0.00	
				RU 98.20	
				AG 0.00	
				UL 0.00	
				OPX 0.49	
				CPX 0.32	
				AB* 0.02	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

AU	3.00:LI	-10.00:BE	-5.00:BN	-10.00:V	280.00:CR	588.00:CG	40.00:NI	83.00:CU	360.00:
ZN	100.00:GA	10.00:GE	-10.00:AS	-1.00:SE	4.00:RB	-10.00:SR	80.00:Y	11.00:ZR	-10.00:
NH	-10.00:MO	4.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	79.00:LA	8.00:
CE	14.00:ND	7.90:SM	2.10:EU	0.80:GD	2.00:DY	2.50:ER	1.50:LU	0.30:HF	-1.00:
TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	7.00:U	0.90:IN	-1.00:TL	-1.00:	

COMMENTS : HORNBLENDE PORPHYRITIC MAEIC FLOW OR TUFF. MODERATE CARBONATIZATION

REPORT #2000

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 12:47:32

SAMPLE ID # AB20382

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918

FIELD NUMBER :

PROJECT # 1117

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

GRID COORDINATES :

E : 0.0 N : 0.0 EL : 0.0

UTM ZONE : 10

DDH : PE-87-2

START DEPTH : 332.80 END DEPTH : 332.90

SAMPLE TYPE : DRILL HOLE

FIELD NAME : VOLCANICLASTIC, MAEIC, LAPILLI, FELDSPAR PORPHYRITIC, CRYSTAL.

FINAL NAME :

ALTERATION : PERVASIVE, CHLORITIZATION, WEAK.

MINERALIZATION : NIL, NIL, NO COMMENT.

FORMATION :

SAMPLED BY : JOHN PATISON

DATE : 13-MAY-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 25-MAY-87

TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %		NA2O+K2O	SiO2	AL2O3	FeO	CaO		
SiO2	51.50	54.35	50.56	Q	6.86	NA2O+K2O	2.48	SiO2	54.35	SUBALKALINE		
AL2O3	16.60	17.52	19.21	C	0.00	OL*	34.85	NE*	24.27	OL*	40.88	SUBALKALINE
FE2O3	8.94	2.31	1.62	OR	0.75	CPX	22.34	OL	0.00	OPX	77.66	SUBALKALINE
FeO	0.00	6.41	4.99	AB	21.22	A	14.04	F	48.07	M	37.89	THOLEIITIC
CaO	8.88	9.37	9.34	AN	37.03	AL2O3	17.52	NORM	PLAG	63.57	CALC-ALKALINE	
MgO	6.34	6.69	9.29	LC	0.00	AN	62.76	AB*	35.96	OR	1.27	K-POOR SERIES
NA2O	2.23	2.35	4.24	NE	0.00	CI	34.84	NORM	PLAG	63.57	BASALT	
K2O	0.12	0.13	0.15	KP	0.00	JENSEN	CALC-ALKALINE	BASALT				
TiO2	0.69	0.73	0.51	AC	0.00	AL	53.96	FE	19.98	Mg	26.06	
P2O5	0.13	0.14	0.11	DI	4.67	COLOR INDEX :	34.84					
MNO	0.00	0.00	0.00	HE	2.35	HASHIMOTO INDEX :	36.77					
S	50.00	0.50	0.50	EN	16.22							
NiO	0.00	0.00	0.00	FS	8.16							
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	4.31	0.00	0.00	MT	2.43							
TOTAL	-5.25	99.00	99.00	IL	1.02							
				CR	0.00							
				HM	0.00							
				AP	0.29							
				PO	1.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	24.38							
				CPX	7.01							
				AB*	21.22							
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
AU	4.00:LI	-10.00:BE	-5.00:B	-10.00:V	330.00:CR	100.00:MN	890.00:CO	24.00:NI	25.00:			
CU	140.00:ZN	61.00:GA	13.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	17.00:SR	375.00:Y	13.00:			
ZR	11.00:NB	12.00:MO	-2.00:AG	-0.50:CD	1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	71.00:			
LA	9.00:CE	18.00:ND	10.70:SH	2.60:EU	1.10:GD	2.50:DY	3.10:ER	1.90:LU	0.40:			
HF	-1.00:TA	3.00:W	-3.00:PB	6.00:BI	-0.50:TH	2.00:U	1.20:IN	-1.00:TL	-1.00:			

COMMENTS :

\*\*\*\* F A L C O N B R I D G E L I D \*\*\*\*  
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:48:17

SAMPLE ID # AB20393

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0 CONCESSION #A      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      PROJECT : PE OPTION  
 UTM ZONE : 10      GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PE-87-2      START DEPTH : 349.90      END DEPTH : 350.00

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC,CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE SERICITIZATION,MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 13-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	69.80	8.79	4.95	Q 2.97	NA20+K20 0.54 SiO2 8.79 ALKALINE
Al2O3	12.50	1.57	1.04	C 0.00	
Fe2O3	2.25	0.21	0.09	OR 1.77	OLA 3.08 NEA 4.42 QA 92.50 SUBALKALINE
FeO	0.00	0.06	0.03	AB 0.25	
CaO	4.61	0.58	0.35	AN 1.60	CPX 43.10 OL 0.00 OPX 56.90 SUBALKALINE
MgO	0.90	0.11	0.10	LC 0.00	
Na2O	0.36	0.05	0.05	NE 0.00	A 59.41 F 28.10 H 12.49 CALC-ALKALINE
K2O	3.92	0.49	0.35	KP 0.00	
TiO2	0.18	0.02	0.01	AC 0.00	AL2O3 1.57 NORM PLAG 86.61 THOLEIITIC
P2O5	0.04	0.01	0.00	DI 0.10	
MnO	0.00	0.00	0.00	HE 0.00	AN 44.18 AB* 6.83 OR 48.99 SODIC
S	700.00	88.11	93.02	EN 0.14	CI 0.33 NORM PLAG 86.61 BASALT
NiO	0.00	0.00	0.00	FS 0.00	
Cr2O3	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE RHYOLITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 82.29 FE 10.21 HG 7.49
LOI	4.62	0.00	0.00	MT 0.00	
TOTAL	794.50	100.00	100.00	IL 92.99	COLOR INDEX : 0.33 HASHINOTO INDEX : 49.23
				CR 0.00	
				HM 0.09	
				AP 0.01	
				PO 186.05	
				NS 0.00	
				KS 0.00	
				RU 93.00	
				AG 0.00	
				OL 0.00	
				OPX 0.14	
				CPX 0.10	
				AB* 0.25	

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	1.00:LI	-10.00:BE	-5.00:B	-10.00:V	30.00:CR	70.00:MN	420.00:CD	4.00:NI	5.00:
CU	13.00:ZN	14.00:GA	10.00:GE	-10.00:AS	-1.00:SE	-3.00:R#	58.00:SR	46.00:Y	-10.00:
ZR	71.00:NB	-10.00:MO	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	1470.00:
LA	13.00:CE	21.00:ND	7.40:SM	1.40:EU	0.40:GD	1.10:DY	1.60:ER	1.20:LU	0.30:
HF	-1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.70:U	2.70:IN	-1.00:TL	-1.00:

COMMENTS : MAY BE A FELSIC INTRUSIVE PERHAPS RELATED TO THE SALISPRING INTRUSION



REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:49:01

SAMPLE ID # AB20384

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918

FIELD NUMBER :

PROJECT # 1117

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092B13

PROJECT : PF OPTION

UTM ZONE : 10

GRID COORDINATES :

E : 0.0 N : 0.0

EL : 0.0

SAMPLE TYPE : DRILL HOLE

DDH : PF-87-2

START DEPTH : 369.70

END DEPTH : 369.80

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC,QUARTZ PORPHYRITIC.

FINAL NAME :

ALTERATION : PERVASIVE .EPIDOTIZATION ,WEAK.

MINERALIZATION : DISSEMINATED AND BLEBS,1-SZ,PYRITE.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 13-MAY-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 25-MAY-87

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SI02	51.30	1.05	0.56	Q	0.08	NA20+K20	0.07	SI02	1.05	ALKALINE		
AL203	19.30	0.37	0.24	C	0.00							
FE203	8.87	0.05	0.02	GR	0.01	OL*	18.63	NE*	37.27	Q*	44.10	SUBALKALINE
FE0	0.00	0.12	0.05	AB	0.37							
CA0	8.24	0.17	0.10	AN	0.41	CPX	26.96	OL	0.00	OPX	73.04	SUBALKALINE
MGO	5.30	0.11	0.09	LC	0.00							
NA20	3.44	0.07	0.07	NE	0.00	A	21.04	F	47.45	M	31.51	THOLEIITIC
K20	0.10	0.00	0.00	KP	0.00							
TIO2	0.77	0.02	0.01	AC	0.00	AL203		0.37	NORM PLAG		53.55	THOLEIITIC
P205	0.15	0.00	0.00	DI	0.05							
HNO	0.00	0.00	0.00	HE	0.00	AN	52.08	AB*	47.02	OR	0.90	SODIC
S	4800.00	98.04	98.86	EN	0.15							
NIO	0.00	0.00	0.00	FS	0.00	CI		0.22	NORM PLAG		52.55	HAWAIIITE
CR203	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H20+	0.00	0.00	0.00	WO	0.00	JENSEN CALC-ALKALINE BASALT						
H20-	0.00	0.00	0.00	LN	0.00	AL	58.74	FE	19.75	HG	21.51	
LOI	3.54	0.00	0.00	HI	0.00							
				IL	98.81							
TOTAL	*****	100.00	100.00	CR	0.00	COLOR INDEX :		0.22				
				HM	0.02	HASHIMOTO INDEX :		31.62				
				AP	0.00							
				PO	197.72							
				NS	0.00							
				KS	0.00							
				RU	98.81							
				AG	0.00							
				OL	0.00							
				OPX	0.15							
				CPX	0.05							
				AB*	0.37							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	6.00:LI	-10.00:BE	-5.00:B	-10.00:V	360.00:CR	96.00:MN	680.00:CO	30.00:NI	23.00:
CU	330.00:ZN	66.00:GA	15.00:GE	-10.00:AS	-1.00:SE	3.00:RB	-10.00:SR	382.00:Y	23.00:
ZR	16.00:NB	-10.00:MO	6.00:AG	-0.50:CD	1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	75.00:
LA	10.00:CE	19.00:ND	11.70:SM	2.90:EU	1.20:GD	2.90:DY	3.40:ER	2.10:LU	0.40:
HF	-1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.40:IN	-1.00:TL	-1.00:

COMMENTS :

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:31:13

SAMPLE ID # AB15401

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NIS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-3 START DEPTH : 34.90 END DEPTH : 35.00

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, FINE.  
 FINAL NAME :  
 ALTERATION :  
 MINERALIZATION :  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 16-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	50.00	52.37	50.86	0	17.81	NA20+K20	0.16	SI02	52.37	SUBALKALINE		
AL203	14.90	15.61	17.86	C	0.00							
FE203	13.30	3.92	2.86	OR	0.39	OL*	39.15	NE*	1.36	GA	59.49	SUBALKALINE
FE0	0.00	9.01	7.32	AB	0.89							
CA0	10.60	11.10	11.55	AN	44.02	CPX	30.41	OL	0.00	OPX	69.59	SUBALKALINE
MGO	4.68	4.90	7.09	LC	0.00							
NA20	0.09	0.09	0.18	NE	0.00	A	0.89	F	71.25	M	27.86	THOLEIITIC
K20	0.06	0.06	0.08	KP	0.00							
TIO2	2.24	2.35	1.71	AC	0.00	AL203		15.61	NORM	PLAG	98.02	THOLEIITIC
P205	0.36	0.38	0.31	DI	5.09							
MNO	0.20	0.21	0.17	HE	3.83	AN	97.18	AW*	1.96	OR	0.86	K-RICH SERIES
S	50.00	0.50	0.50	EN	11.64							
NIO	0.00	0.00	0.00	FS	8.77	CI		37.06	NORM	PLAG	98.02	BASALT
CR203	0.00	0.00	0.00	EO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN	HIGH IRON THOLEIITIC BASALT					
H2O-	0.00	0.00	0.00	LN	0.00	AL	48.25	FE	32.59	MG	19.16	
LOI	3.85	0.00	0.00	HI	4.29							
TOTAL	-4.53	99.00	99.00	IL	3.43							
				CR	0.00	COLOR INDEX :	37.06					
				HM	0.00	HASHIMOTO INDEX :	30.72					
				AP	0.83							
				PD	1.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	20.42							
				CPX	8.92							
				AW*	0.89							

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

AU	12.00:LI	-10.00:RE	-5.00:R	-10.00:V	360.00:CR	58.00:CO	36.00:NI	15.00:CU	8.00:
ZN	100.00:GA	19.00:GE	10.00:AS	-1.00:SE	-3.00:RB	-10.00:SR	471.00:Y	42.00:ZR	158.00:
NB	33.00:MO	-2.00:AG	0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	60.00:LA	21.00:
CE	46.00:ND	28.60:SH	6.70:EU	2.40:GD	7.10:DY	7.60:ER	4.30:LU	0.60:HF	-1.00:
TA	7.00:W	-3.00:PB	-2.00:BI	-0.50:TH	3.00:U	1.20:IN	-1.00:IL	-1.00:	

COMMENTS : INT FLOW OR MORE LIKELY SILL

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REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:31:56

SAMPLE ID # AB15402

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-3 START DEPTH : 53.50 END DEPTH : 53.60

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH.  
 FINAL NAME :  
 ALTERATION :  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-SZ, PYRITE PLUS CHALCOPYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 16-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT %	ANHYDROUS CATION %									
SiO2	46.30	0.51	0.27	Q	0.02	NA20+K20	0.05	SiO2	0.51	ALKALINE		
Al2O3	19.70	0.22	0.14	C	0.05							
Fe2O3	10.80	0.03	0.01	OR	0.02	OLA	25.94	NEA	35.56	GA	38.50	SUBALKALINE
FeO	0.00	0.08	0.04	AB	0.23							
CaO	2.79	0.03	0.02	AN	0.08	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	7.59	0.08	0.07	LC	0.00							
Na2O	4.00	0.04	0.05	NE	0.00	A	20.96	F	44.38	M	34.66	THOLEIITIC
K2O	0.59	0.01	0.00	KP	0.00							
TiO2	0.93	0.01	0.00	AC	0.00	AL2O3		0.22	NORM	PLAG	25.97	THOLEIITIC
P2O5	0.19	0.00	0.00	DI	0.00							
MnO	0.18	0.00	0.00	HE	0.00	AN	24.23	ABA	69.06	OR	6.71	SODIC
S	9000.00	98.99	99.40	EN	0.13							
NiO	0.00	0.00	0.00	ES	0.00	CI		0.14	NORM	PLAG	25.97	BENMOREITE
CR2O3	0.00	0.00	0.00	EO	0.00							
CO2	0.00	0.00	0.00	EA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	CALC-ALKALINE BASALT					
H2O-	0.00	0.00	0.00	LN	0.00	AL	53.37	EE	20.64	MG	26.00	
LOI	5.47	0.00	0.00	HT	0.00							
TOTAL	*****	100.00	100.00	IL	99.36							
				CR	0.00	COLOR INDEX :	0.14					
				HM	0.01	HASHIMOTO INDEX :	54.64					
				AP	0.00							
				PO	198.80							
				NS	0.00							
				KS	0.00							
				PU	99.37							
				AG	0.00							
				OL	0.00							
				OPX	0.13							
				CPX	0.00							
				ABA	0.23							
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
AU	6.00:LI	-10.00:BE	-5.00:B	-10.00:V	250.00:CR	22.00:CO	16.00:NI	13.00:CU	12.00:			
ZN	110.00:GA	14.00:GE	-10.00:AS	-1.00:SE	3.00:RB	12.00:SR	248.00:Y	11.00:ZR	40.00:			
NB	14.00:MG	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:WA	251.00:LA	7.00:			
CE	16.00:ND	10.30:SH	2.50:EU	0.80:GD	2.40:DY	3.10:ER	2.00:LU	0.30:HE	-1.00:			
IA	4.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.20:IN	-1.00:TL	-1.00:				

COMMENTS : INT ASH TO XTAL TUFF WITH 3X DISSEM PY AND LOCAL CPY (TRACE AMTS)

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:32:41

SAMPLE ID # AB15403

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0      CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      PROJECT : PF OPTION  
 UTM ZONE : 10      GRID COORDINATES : E :      0.0      N :      0.0      EL :      0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PF-87-3      START DEPTH :      80.20      END DEPTH :      80.30

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : METAMORPHOSED, EPIDOTIZATION.  
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-SZ, PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY      DATE : 16-MAY-87      ANALYTICAL  
 ANALYZED BY : XRAL      DATE : 25-MAY-87      TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	51.30	0.90	0.48	Q 0.08	NA2O+K2O 0.06 SiO2 0.90 ALKALINE
Al2O3	17.30	0.30	0.19	C 0.00	
Fe2O3	9.15	0.04	0.02	OR 0.00	OLA 21.49 NE* 33.23 QA 45.28 SUBALKALINE
FeO	0.00	0.11	0.05	AB 0.29	
CaO	7.67	0.13	0.08	AN 0.33	CPX 18.71 OL 0.00 OPX 81.29 SUBALKALINE
MgO	5.91	0.10	0.08	LC 0.00	
Na2O	3.15	0.06	0.06	NE 0.00	A 18.55 F 47.42 M 34.04 THOLEITIC
K2O	0.07	0.00	0.00	KF 0.00	
TiO2	0.78	0.01	0.01	AC 0.00	AL2O3 0.30 NORM PLAG 53.75 THOLEITIC
P2O5	0.15	0.00	0.00	DI 0.03	
MnO	0.00	0.00	0.00	HE 0.00	AN 53.39 AB* 45.94 OR 0.67 SODIC
S	5600.00	98.34	99.03	EN 0.15	
NiO	0.00	0.00	0.00	ES 0.00	CI 0.20 NORM PLAG 53.75 HAWAIIITE
Cr2O3	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WD 0.00	JENSEN CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN 0.00	AL 55.61 FE 20.38 MG 24.02
LOI	3.93	0.00	0.00	HT 0.00	
TOTAL	*****	100.00	100.00	IL 98.98	COLOR INDEX : 0.20 HASHIMOTO INDEX : 35.60
				CR 0.00	
				HM 0.02	
				AP 0.00	
				PO 198.07	
				NS 0.00	
				KS 0.00	
				RU 98.99	
				AG 0.00	
				OL 0.00	
				OPX 0.15	
				CPX 0.03	
				AB* 0.29	

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

AU	18.00:LI	-10.00:BE	-5.00:B	-10.00:V	280.00:CR	110.00:MN	800.00:CO	24.00:NI	31.00:
CU	210.00:ZN	77.00:GA	15.00:GE	10.00:AS	-1.00:SE	-3.00:RB	-10.00:SR	393.00:Y	32.00:
ZR	-20.00:NB	12.00:MO	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	80.00:
LA	8.00:CE	17.00:ND	10.60:SM	2.40:EU	1.00:GD	2.60:DY	3.00:ER	2.00:LU	0.40:
HF	-1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.30:IN	-1.00:TL	-1.00:

COMMENTS : ALMOST UNALTERED SECTION FROM FLOW WHICH IS LOCALLY ALTERED TO CHL-CARB-PY

SAMPLE ID # AB15404

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER :  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-3 START DEPTH : 122.50 END DEPTH : 122.60

PROJECT # 1117  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION

FIELD NAME : OTHER .LOOK AT COMMENTS.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .LOOK AT COMMENTS.  
 MINERALIZATION : DISSEMINATED AND VLEBS,5-20% .PYRITE PLUS CHALCOPYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 16-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	47.60	0.31	0.16	Q 0.04	NA2O+K2O 0.03 SiO2 0.31 ALKALINE
Al2O3	17.40	0.11	0.07	C 0.03	
Fe2O3	11.10	0.01	0.01	OK 0.07	OLA 39.43 NEA 12.32 OA 48.25 SUBALKALINE
FeO	0.00	0.05	0.02	AB 0.03	
CaO	3.52	0.02	0.01	AN 0.06	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MgO	7.66	0.05	0.04	LC 0.00	
Na2O	0.92	0.01	0.01	NE 0.00	A 18.52 E 46.12 M 35.37 THOLEIITIC
K2O	3.09	0.02	0.01	KP 0.00	
TiO2	0.63	0.00	0.00	AC 0.00	AL2O3 0.11 NORM PLAG 67.23 THOLEIITIC
P2O5	0.08	0.00	0.00	DI 0.00	
MnO	0.17	0.00	0.00	HE 0.00	AN 38.97 ABA 19.00 OR 42.03 SODIC
S	15400.00	99.41	99.66	EN 0.08	CI 0.08 NORM PLAG 67.23 HAWAIIITE
NiO	0.00	0.00	0.00	ES 0.00	
Cr2O3	0.00	0.00	0.00	EU 0.00	
CO2	1.55	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN 0.00	AL 50.15 FE 21.94 MG 27.91
LOI	6.16	0.00	0.00	MT 0.00	
TOTAL	*****	100.00	100.00	IL 99.64	COLOR INDEX : 0.08 HASHIMOTO INDEX : 70.77
				CR 0.00	
				HM 0.01	
				AP 0.00	
				PO 199.32	
				NS 0.00	
				KS 0.00	
				RU 99.64	
				AG 0.00	
				OL 0.00	
				DPX 0.08	
				CPX 0.00	
				ABA 0.03	

TRACE ELEMENTS (P.P.M.) AU,RE,PI,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	9.00:LI	-10.00:BE	-5.00:B	-10.00:V	290.00:CR	88.00:CO	45.00:NI	36.00:CU	260.00:
ZN	150.00:GA	15.00:GE	-10.00:AS	-1.00:SE	8.00:RB	48.00:SR	29.00:Y	14.00:ZR	36.00:
NB	-10.00:MO	65.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	801.00:LA	4.00:
CE	9.00:ND	5.40:SM	1.40:EU	0.50:GD	1.60:DY	2.20:ER	1.50:LU	0.30:HF	-1.00:
TA	3.00:W	-3.00:PB	-2.00:BI	0.50:TH	2.00:U	1.00:IN	-1.00:TL	-1.00:	

COMMENTS : CHLOR-CARB-PY +/- CPY IN CHLOR-CARB ALT ZONE

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:34:11

SAMPLE ID # AB15405

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918      FIELD NUMBER :      PROJECT # 1117  
 TOWNSHIP :      LOT : 0 CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13      PROJECT : PF OPTION  
 UTM ZONE : 10      GRID COORDINATES : E :      0.0 N :      0.0 EL :      0.0  
 SAMPLE TYPE : DRILL HOLE      DDH : PF-87-3      START DEPTH : 146.90      END DEPTH : 147.10

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC.CRYSTAL ,BEDDED.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES						
SI02	73.90	5.28	3.91	Q 1.41	NA20+K20	0.44	SI02	5.28	ALKALINE		
AL203	14.00	1.00	0.65	C 0.09	OL*	3.15	NE*	32.13	GA*	64.73	SUBALKALINE
EE203	1.63	0.12	0.05	OR 0.39	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
FE0	0.00	0.00	0.00	AB 1.78	A	70.07	F	16.52	M	13.41	CALC-ALKALINE
CA0	1.63	0.12	0.07	AN 0.32	AL203	1.00	NORM	PLAG	15.40	THOLEIITIC	
MGO	1.19	0.09	0.07	LC 0.00	AN	12.99	AB*	71.40	OR	15.61	SODIC
NA20	4.67	0.33	0.36	NE 0.00	CI	0.19	NORM	PLAG	15.40	TRACHYTE	
K20	1.55	0.11	0.08	KP 0.00	JENSEN CALC-ALKALINE RHYOLITE						
TI02	0.27	0.02	0.01	AC 0.00	AL	83.74	FE	7.26	MG	9.00	
P205	0.07	0.01	0.00	DI 0.00	COLOR INDEX : 0.19						
MNO	0.00	0.00	0.00	HE 0.00	HASHIMOTO INDEX : 30.31						
S	1300.00	92.93	95.81	EN 0.14							
NIO	0.00	0.00	0.00	FS 0.00							
CR203	0.00	0.00	0.00	FO 0.00							
CO2	0.00	0.00	0.00	FA 0.00							
H2O+	0.00	0.00	0.00	WD 0.00							
H2O-	0.00	0.00	0.00	LN 0.00							
LOI	1.24	0.00	0.00	MT 0.00							
TOTAL	*****	100.00	100.00	IL 95.81							
				CR 0.00							
				HM 0.05							
				AP 0.01							
				PD 191.63							
				NS 0.00							
				KS 0.00							
				RU 95.82							
				AG 0.00							
				UL 0.00							
				DPX 0.14							
				CPX 0.00							
				AB* 1.78							

TRACE ELEMENTS (P.P.M.) AU,RE,PI,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	2.00:LI	-10.00:BE	-5.00:B	10.00:V	60.00:CR	100.00:MN	230.00:CO	4.00:NI	5.00:
CU	330.00:ZN	21.00:GA	10.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	28.00:SR	178.00:Y	17.00:
ZR	103.00:NB	11.00:HD	20.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	625.00:
LA	11.00:CE	19.00:ND	8.20:SM	1.70:EU	0.70:GD	1.40:DY	1.90:ER	1.40:LU	0.30:
HF	-1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	3.00:U	1.50:IN	-1.00:IL	-1.00:

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REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:34:56

SAMPLE ID # AB15406

## WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918                      FIELD NUMBER :                      PROJECT # 1117  
 TOWNSHIP :                              LOT : 0    CONCESSION :                      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13                              PROJECT : PF OPTION  
 UTM ZONE : 10                              GRID COORDINATES :    E :                      0.0    N :                      0.0    EL :                      0.0  
 SAMPLE TYPE : DRILL HOLE                      DDH : PF-87-3                      START DEPTH : 187.10                      END DEPTH : 187.30

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, FELDSPAR PORPHYRITIC, MAFIC PORPHYRITIC, FLOW BANDED OR FLOW LAMINATED.  
 FINAL NAME :  
 ALTERATION : METAMORPHOSED EPIDOTIZATION, STRONG.  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-SZ, PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	53.30	1.98	1.07	Q	0.31	NA2O+K2O	0.09	SiO2	1.98	ALKALINE		
Al2O3	16.00	0.59	0.38	C	0.00							
Fe2O3	8.47	0.08	0.03	OR	0.01	OL*	22.23	NE*	25.23	QA	52.54	SUBALKALINE
FeO	0.00	0.21	0.10	AB	0.46							
CaO	7.53	0.28	0.16	AN	0.71	CPX	15.19	OL	0.00	OPX	84.81	SUBALKALINE
MgO	5.92	0.22	0.18	LC	0.00							
Na2O	2.37	0.09	0.09	NE	0.00	A	15.37	F	47.53	M	37.00	THOLEIITIC
K2O	0.09	0.00	0.00	KP	0.00							
TiO2	0.66	0.02	0.01	AC	0.00	AL2O3	0.59	NORM	PLAG	60.63		THOLEIITIC
P2O5	0.19	0.01	0.00	DI	0.06							
MnO	0.00	0.00	0.00	HE	0.00	AN	60.03	AB*	38.99	OR	0.98	SODIC
S	2600.00	96.51	97.97	EN	0.33							
NiO	0.00	0.00	0.00	FS	0.00	CI	0.42	NORM	PLAG	60.63		HAWAIIITE
Cr2O3	0.00	0.00	0.00	ED	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN		CALC-ALKALINE	BASALT			
H2O-	0.00	0.00	0.00	LN	0.00	AL	54.58	FE	19.88	MG	25.53	
LOI	3.54	0.00	0.00	MT	0.00							
TOTAL	*****	100.00	100.00	IL	97.88							
				CR	0.00	COLOR INDEX :			0.42			
				HM	0.03	HASHIMOTO INDEX :			37.77			
				AP	0.01							
				PO	195.95							
				NS	0.00							
				KS	0.00							
				RU	97.89							
				AG	0.00							
				DL	0.00							
				OPX	0.33							
				CPX	0.06							
				AB*	0.46							
TRACE ELEMENTS (P.P.M.)    AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
AU	-1.00:LI	-10.00:BE	-5.00:B	-10.00:V	250.00:CR	200.00:MN	840.00:CD	24.00:NI	60.00:			
CU	250.00:ZN	89.00:GA	14.00:GE	-10.00:AS	-1.00:SE	3.00:RB	-10.00:SR	357.00:Y	17.00:			
ZR	-10.00:NB	-10.00:MO	2.00:AG	-0.50:CB	-1.00:SM	-10.00:SB	-0.20:CS	-1.00:BA	82.00:			
LA	9.00:CE	17.00:ND	11.30:SH	2.40:EU	1.00:GD	2.70:DY	3.00:ER	2.10:LU	0.40:			
HF	-1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.40:IN	-1.00:TL	-1.00:			

REPORT #2000

SAMPLE ID # AB15407

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NIS : 092N13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-3 START DEPTH : 190.80 END DEPTH : 190.95

FIELD NAME : OTHER ,LOOK AT COMMENTS.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT %	ANHYDROUS CATION %		NA2O+K2O	SI02	AL2O3	FE	MG	OTHER		
SI02	49.10	52.47	48.08	Q	2.11	NA2O+K2O	2.86	SI02	52.47	SUBALKALINE		
AL2O3	17.10	18.27	19.74	C	1.95	OL*	42.95	NE*	23.63	OX*	33.42	SUBALKALINE
FE2O3	9.30	2.33	1.61	OR	0.38	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
FE0	0.00	6.85	5.25	AB	24.87	A	13.43	F	41.95	M	44.62	THOLEIITIC
CAO	6.23	6.66	6.54	AN	31.86	AL2O3	18.27	NORM	PLAG	56.16	CALC-ALKALINE	
MGO	8.90	9.51	12.99	LC	0.00	AN	55.79	AB*	43.56	OR	0.66	K-POOR SERIES
NA2O	2.62	2.80	4.97	NE	0.00	CI	39.57	NORM	PLAG	56.16	BASALT	
K2O	0.06	0.06	0.08	KP	0.00	JENSEN	HIGH MAGNESIUM	THOLEIITIC	BASALT			
TI02	0.68	0.73	0.50	AC	0.00	AL	49.06	FE	18.65	MG	32.29	
P2O5	0.12	0.13	0.10	DI	0.00	COLOR INDEX :	39.57					
MNO	0.18	0.19	0.15	HE	0.00	HASHIMOTO INDEX :	50.31					
S	50.00	0.50	0.50	EN	25.98							
NIO	0.00	0.00	0.00	ES	10.18							
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	5.31	0.00	0.00	MT	2.41							
TOTAL	-6.42	99.00	99.00	IL	1.00							
				CR	0.00							
				HM	0.00							
				AP	0.27							
				PO	1.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	36.16							
				CPX	0.00							
				AB*	24.87							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	7.00:LI	-10.00:BE	-5.00:B	-10.00:V	260.00:CR	270.00:CG	28.00:NI	64.00:CU	220.00:
ZN	97.00:GA	14.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	15.00:SR	282.00:Y	19.00:ZR	31.00:
NB	-10.00:MO	3.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	81.00:LA	7.00:
CE	15.00:ND	9.30:SH	1.90:EU	0.90:GD	2.20:DY	2.70:ER	1.80:LU	0.30:HF	-1.00:
TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.10:IN	-1.00:TL	-1.00:	

COMMENTS : FAULT ZONE IN AB15406



SAMPLE ID # AB15408

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DBH : PF-87-3 START DEPTH : 202.60 END DEPTH : 202.75

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, MEDIUM QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLENDS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	74.00	5.29	2.91	Q	1.29	NA20+K20	0.49	SiO2	5.29	ALKALINE		
Al2O3	13.10	0.94	0.61	C	0.00							
Fe2O3	1.30	0.09	0.04	OR	0.39	OL*	0.50	NE*	36.31	Q*	63.19	SUBALKALINE
FeO	0.00	0.00	0.00	AB	2.02							
CaO	1.96	0.14	0.08	AN	0.31	CPX	75.96	OL	0.00	OPX	24.04	ALKALINE
MgO	0.49	0.04	0.03	LC	0.00							
Na2O	5.29	0.38	0.40	NE	0.00	A	80.50	E	13.75	M	5.76	CALC-ALKALINE
K2O	1.56	0.11	0.08	KP	0.00							
TiO2	0.18	0.01	0.01	AC	0.00	AL2O3		0.94	NORM	PLAG	13.47	THOLEIITIC
P2O5	0.04	0.00	0.00	BI	0.07							
MnO	0.00	0.00	0.00	HE	0.00	AN	11.53	AB*	74.08	OR	14.39	SODIC
S	1300.00	93.00	95.84	EN	0.02							
NiO	0.00	0.00	0.00	ES	0.00	CI		0.13	NORM	PLAG	13.47	TRACHYTE
Cr2O3	0.00	0.00	0.00	ED	0.00							
CO2	0.00	0.00	0.00	EA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN						CALC-ALKALINE RHYOLITE
H2O-	0.00	0.00	0.00	LN	0.00	AL	89.33	FE	6.44	MG	4.22	
LOI	0.93	0.00	0.00	HT	0.00							
TOTAL	*****	100.00	100.00	IL	95.84							
				CR	0.00	COLOR INDEX :		0.13				
				HM	0.04	HASHIMOTO INDEX :		22.04				
				AP	0.00							
				PO	191.69							
				NS	0.00							
				KS	0.00							
				RU	95.85							
				AG	0.00							
				UL	0.00							
				OPX	0.02							
				CPX	0.07							
				AB*	2.02							
TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
AU	22.00:LI	-10.00:BE	-5.00:R	-10.00:V	20.00:CR	100.00:HN	160.00:CO	2.00:NI	4.00:			
CU	6.00:ZN	11.00:GA	11.00:GE	-10.00:AS	-1.00:SE	-3.00:RE	22.00:SK	52.00:Y	33.00:			
ZR	68.00:NB	-10.00:MO	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SR	-0.20:CS	-1.00:BA	806.00:			
LA	12.00:CE	20.00:NB	7.30:SM	1.30:EU	0.30:GD	1.00:DY	1.40:ER	1.10:LU	0.30:			
HF	1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	6.00:U	3.10:IN	-1.00:TL	-1.00:			

COMMENTS : QFP DYKE OR SILL

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:37:09

SAMPLE ID # AB15409

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-3 START DEPTH : 207.90 END DEPTH : 208.00

FIELD NAME : PLUTONIC.FELSIC OR LEUCOCRAIC ,MEDIUM.QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES										
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %		NA2O+K2O	SiO2	76.70	SUBALKALINE	OLA	1.77	NEA	38.96	Q*	59.27	SUBALKALINE
SiO2	75.60	76.70	70.51	Q	29.74											
AL2O3	12.70	12.88	13.96	C	0.00											
FE2O3	1.13	1.15	0.79	OR	3.45											
FEO	0.00	0.00	0.00	AB	59.03											
CaO	1.14	1.16	1.14	AN	3.66	CPX	40.64	OL	0.00	OPX	59.36					SUBALKALINE
MgO	0.69	0.70	0.96	LC	0.00											
NA2O	6.53	6.62	11.81	NE	0.00	A	80.64	F	11.53	M	7.83					CALC-ALKALINE
K2O	0.58	0.59	0.69	KP	0.00											
TiO2	0.17	0.17	0.12	AC	0.00	AL2O3	12.88			NORM FLAG	5.84					CALC-ALKALINE
P2O5	0.03	0.03	0.02	DI	0.98											
MNO	0.00	0.00	0.00	HE	0.49	AN	5.53	AB*	89.25	OR	5.22					K-POOR SERIES
S	50.00	0.50	0.50	EN	1.43											
NiO	0.00	0.00	0.00	ES	0.72	CI	5.05			NORM FLAG	5.84					RHYOLITE
CR2O3	0.00	0.00	0.00	ED	0.00											
CO2	0.00	0.00	0.00	FA	0.00											
H2O+	0.00	0.00	0.00	WO	0.00											
H2O-	0.00	0.00	0.00	LN	0.00	JENSEN										CALC-ALKALINE RHYOLITE
LOI	0.70	0.00	0.00	MT	1.19	AL	88.18	FE	5.76	HG	6.06					
TOTAL	-1.43	99.00	99.00	IL	0.24											
				CR	0.00	COLOR INDEX :	5.05									
				HM	0.00	HASHIMOTO INDEX :	14.21									
				AP	0.06											
				PO	1.00											
				NS	0.00											
				KS	0.00											
				RU	0.00											
				AG	0.00											
				OL	0.00											
				OPX	2.15											
				CPX	1.47											
				AB*	59.03											

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.P.)

AU	8.00:LI	-10.00:BE	-5.00:F	-10.00:V	20.00:CR	120.00:MN	130.00:CO	3.00:NI	4.00:
CU	-12.00:ZN	14.00:GA	9.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	16.00:SR	91.00:Y	-10.00:
ZR	82.00:NB	-10.00:MO	4.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	254.00:
LA	10.00:CE	17.00:ND	6.50:SM	0.90:EU	0.30:GD	0.80:DY	1.20:ER	1.00:LU	0.30:
HF	1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	7.00:U	3.30:IN	-1.00:TL	-1.00:

COMMENTS : QEP DYKE

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:37:54

SAMPLE ID # AB15410

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092913  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-3 START DEPTH : 223.30 END DEPTH : 223.40

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5% PYRITE PLUS CHALCOPYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
		ANHYDROUS WT %	ANHYDROUS CATION %									
SiO2	57.60	2.06	1.12	Q	0.29	NA2O+K2O	0.17	SiO2	2.06	ALKALINE		
Al2O3	16.40	0.59	0.37	C	0.05	OLA	14.06	NEA	36.88	QA	49.07	SUBALKALINE
Fe2O3	7.45	0.08	0.03	OR	0.01	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
EEO	0.00	0.17	0.08	AB	0.90	A	29.96	E	41.07	M	28.98	THOLEIITIC
CaO	3.69	0.13	0.08	AN	0.36	AL2O3		0.59	NORM	PLAG	28.73	THOLEIITIC
H2O	4.73	0.17	0.14	LC	0.00	AN	28.39	ABA	70.44	OR	1.17	SODIC
Na2O	4.77	0.17	0.18	NE	0.00	CI		0.31	NORM	PLAG	28.73	BENMOREITE
K2O	0.12	0.00	0.00	KP	0.00	JENSEN			ALC-ALKALINE	BASALT		
TiO2	0.76	0.03	0.01	AC	0.00	AL	59.37	FE	18.98	MG	21.65	
P2O5	0.16	0.01	0.00	DI	0.00	COLOR INDEX :			0.31			
MnO	0.00	0.00	0.00	HE	0.00	HASHIMOTO INDEX :			36.44			
S	2700.00	96.60	97.99	EN	0.27							
NiO	0.00	0.00	0.00	ES	0.00							
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	2.93	0.00	0.00	HT	0.00							
TOTAL	*****	100.00	100.00	IL	97.92							
				CR	0.00							
				HM	0.03							
				AP	0.01							
				PO	195.99							
				NS	0.00							
				KS	0.00							
				RU	97.93							
				AG	0.00							
				OL	0.00							
				OPX	0.27							
				CPX	0.00							
				ABA	0.90							
TRACE ELEMENTS (P.P.H.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)												
AU	21.00:LI	-10.00:BE	-5.00:B	-10.00:V	200.00:CR	44.00:MN	790.00:CO	13.00:NI	8.00:			
CU	370.00:ZN	69.00:GA	12.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	12.00:SR	265.00:Y	14.00:			
ZR	55.00:NB	23.00:MO	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	115.00:			
LA	10.00:CE	21.00:ND	11.70:SM	2.40:EU	0.90:GD	2.80:DY	3.20:ER	2.00:LU	0.40:			
HF	-1.00:IA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	3.00:U	2.10:IN	-1.00:TL	-1.00:			

COMMENTS : INT EP XIAL FLOW WITH LOCAL CHL AFTER HBLD WITH 2X PY AND TRACE CPY

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:38:38

SAMPLE ID # AB15411

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092813  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-3 START DEPTH : 244.60 END DEPTH : 244.80

FIELD NAME : VOLCANIC,FELSIC,FINE.  
 FINAL NAME :  
 ALTERATION : IN SITU BRECCIATION ,SERICITIZATION,STRONG.  
 MINERALIZATION : ALONG FRACTURES,<1% ,PYRITE PLUS CHALCOPYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	72.00	1.14	0.61	Q	0.25	NA20+K20	0.10	SiO2	1.14	ALKALINE		
Al2O3	12.80	0.20	0.13	C	0.00							
Fe2O3	2.48	0.03	0.01	OR	0.02	Ql*	0.37	NEX 39.87	Q*	59.75	SUBALKALINE	
FeO	0.00	0.01	0.00	AB	0.51							
CaO	2.52	0.04	0.02	AN	0.06	CPX	91.73	OL	0.00	OPX	8.27	ALKALINE
MgO	0.98	0.02	0.01	LC	0.00							
Na2O	6.13	0.10	0.10	NE	0.00	A	66.86	F	23.03	H	10.11	CALC-ALKALINE
K2O	0.35	0.01	0.00	KP	0.00							
TiO2	0.24	0.00	0.00	AC	0.00	AL2O3	0.20	NORM	PLAG	10.39	THOLEIITIC	
P2O5	0.06	0.00	0.00	DI	0.04							
HNO	0.00	0.00	0.00	HE	0.00	AN	10.05	AB*	86.69	OR	3.26	SODIC
S	6200.00	98.45	99.10	EN	0.00							
NiO	0.00	0.00	0.00	ES	0.00	CI	0.06	NORM	PLAG	10.39	TRACHYTE	
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.70	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WU	0.00	JENSEN	CALC-ALKALINE RHYOLITE					
H2O-	0.00	0.00	0.00	LN	0.00	AL	81.14	FE	11.01	MG	7.85	
LOI	1.39	0.00	0.00	MI	0.00							
TOTAL	*****	100.00	100.00	IL	99.09	COLOR INDEX :	0.06					
				CR	0.00	HASHIMOTO INDEX :	13.33					
				HM	0.01							
				AP	0.00							
				PO	198.20							
				NS	0.00							
				KS	0.00							
				RU	99.10							
				AG	0.00							
				DL	0.00							
				OPX	0.00							
				CPX	0.04							
				AB*	0.51							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	5.00:LI	-10.00:BE	-5.00:B	-10.00:V	40.00:CR	130.00:MN	230.00:CO	10.00:NI	6.00:
CU	510.00:ZN	28.00:GA	9.00:GE	-10.00:AS	-1.00:SE	4.00:RB	-10.00:SR	254.00:Y	27.00:
ZR	80.00:Nb	-10.00:MO	4.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	284.00:
LA	14.00:CE	25.00:ND	11.20:SH	2.00:EU	0.70:GD	1.80:DY	2.30:ER	1.50:LU	0.30:
HF	-1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	3.00:U	1.60:IN	-1.00:TL	-1.00:

COMMENTS : BRECCIATED RHYOLITE WITH PY AND CPY ON FRACTURES

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:39:23

SAMPLE ID # AB15412

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 BDH : PF-87-3 START DEPTH : 263.85 END DEPTH : 264.00

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 17-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES	
	ANHYDROUS WT %	ANHYDROUS CATION %			
SiO2	77.30	78.52	Q 40.17	NA2O+K2O 5.89	SiO2 78.52 SUBALKALINE
Al2O3	11.90	12.09	C 1.41	OLA 3.28	NEA 28.58 GA 68.14 SUBALKALINE
Fe2O3	1.18	1.20	OR 8.92	CPX 0.00	OL 0.00 OPX 100.00 SUBALKALINE
FeO	0.00	0.00	AB 39.87	A 74.06	F 13.56 M 12.39 CALC-ALKALINE
CaO	1.10	1.12	AN 5.40	AL2O3 12.09	NORM PLAG 11.92 THOLEITIC
H2O	0.97	0.99	LC 0.00	AN 9.96	AB* 73.58 OR 16.46 AVERAGE SERIES
Na2O	4.33	4.40	NE 0.00	CI 5.17	NORM PLAG 11.92 RHYOLITE
K2O	1.47	1.49	KP 0.00	JENSEN CALC-ALKALINE RHYOLITE	
TiO2	0.17	0.17	AC 0.00	AL 85.07	FE 6.16 MG 8.77
P2O5	0.03	0.03	DI 0.00	COLOR INDEX : 5.17	
MnO	0.00	0.00	HE 0.00	HASHIMOTO INDEX : 31.00	
S	50.00	0.50	EN 2.75		
H2O	0.00	0.00	FS 0.91		
CR2O3	0.00	0.00	FO 0.00		
CO2	0.00	0.00	FA 0.00		
H2O+	0.00	0.00	WD 0.00		
H2O-	0.00	0.00	LN 0.00		
LOI	0.77	0.00	MT 1.27		
TOTAL	-1.55	99.00	IL 0.24		
			CR 0.00		
			HM 0.00		
			AP 0.06		
			PG 1.00		
			NS 0.00		
			KS 0.00		
			RU 0.00		
			AG 0.00		
			OL 0.00		
			OPX 3.66		
			CPX 0.00		
			ABA 39.87		

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

AU	14.00:LI	-10.00:BE	-5.00:R	-10.00:V	30.00:CR	110.00:MN	160.00:CO	2.00:NI	4.00:
CU	6.00:ZN	18.00:GA	8.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	27.00:SR	61.00:Y	13.00:
ZR	63.00:NB	14.00:HO	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	455.00:
LA	5.00:CE	9.00:NB	3.10:SM	-0.50:EU	0.20:GD	0.50:DY	0.80:ER	0.80:LU	0.20:
HF	1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	5.00:U	2.50:IN	-1.00:TL	-1.00:

COMMENTS : QEP SILL OR POSSIBLY RHYOLITIC TUFF

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:40:07

SAMPLE ID # AB15413

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DBH : PE-87-3 START DEPTH : 305.00 END DEPTH : 305.10

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN .LOOK AT COMMENTS.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 18-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES						
SI02	41.30	2.31	1.26	Q 0.26	NA2O+K2O	0.01	SI02	2.31	ALKALINE		
AL2O3	11.70	0.65	0.42	C 0.00	OLA	56.20	NEA	1.24	GA	42.56	SUBALKALINE
FE2O3	16.60	0.11	0.05	OR 0.01	CPX	23.28	OL	0.00	OPX	76.72	SUBALKALINE
FE0	0.00	0.73	0.33	AR 0.02	A	0.54	E	57.50	M	41.96	THOLEIITIC
CAO	8.43	0.47	0.28	AN 1.03	AL2O3	0.65	NORM	PLAG	97.76	THOLEIITIC	
HGO	10.90	0.61	0.50	LC 0.00	AN	96.69	AB*	2.21	GR	1.09	SODIC
NA2O	0.08	0.00	0.00	NE 0.00	CI	1.17	NORM	PLAG	97.76	BASALT	
K2O	0.06	0.00	0.00	KP 0.00	JENSEN	BASALTIC KOMATIITE					
TI02	0.54	0.03	0.01	AC 0.00	AL	31.96	FE	30.40	HG	37.64	
P2O5	0.08	0.00	0.00	DI 0.26	COLOR INDEX :	1.17					
MNO	0.26	0.01	0.01	HE 0.00	HASHIMOTO INDEX :	56.29					
S	1700.00	95.05	97.14	EN 0.86							
NIO	0.00	0.00	0.00	FS 0.00							
CR2O3	0.00	0.00	0.00	ED 0.00							
CO2	6.84	0.00	0.00	FA 0.00							
H2O+	0.00	0.00	0.00	WD 0.00							
H2O-	0.00	0.00	0.00	LN 0.00							
LOI	9.54	0.00	0.00	MT 0.00							
TOTAL	*****	100.00	100.00	IL 96.80							
				CR 0.00							
				HM 0.05							
				AP 0.01							
				PO 194.28							
				NS 0.00							
				KS 0.00							
				RU 96.81							
				AG 0.00							
				OL 0.00							
				OPX 0.86							
				CPX 0.26							
				AB*	0.02						
TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)											
AU	-1.00:LI	-10.00:BE	-5.00:B	-10.00:V	270.00:CR	727.00:CO	26.00:NI	96.00:CU	63.00:		
ZN	90.00:GA	14.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	-10.00:SR	27.00:Y	10.00:ZR	17.00:		
NB	14.00:MO	12.00:AG	-0.50:CD	-1.00:SM	-10.00:SB	-0.20:CS	-1.00:BA	71.00:LA	3.00:		
CE	6.00:ND	4.00:SM	1.30:EU	0.50:GD	1.60:DY	2.30:ER	1.60:LU	0.30:HE	-1.00:		
TA	3.00:W	7.00:PB	-2.00:BI	-0.50:TH	1.00:U	0.60:IN	-1.00:IL	-1.00:			

COMMENTS : ALTERED TO CHLOR-CARB-PY +/- CPY

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:40:52

SAMPLE ID # AR15414

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PE OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-3 START DEPTH : 321.40 END DEPTH : 321.50

TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NAME : PLUTONIC.FELSIC OR LEUCOCRATIC ,MEDIUM,QUARTZ AND FELDSPAR PORPHYRITIC.

FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS.<1% .PYRITE PLUS CHALCOPYRITE.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 18-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

WT %	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	ANHYDROUS WT %	ANHYDROUS CATION %	ANHYDROUS	CATION								
SiO2	70.80	2.73	1.48	Q	0.90	NA2O+K2O	0.17	SiO2	2.73	ALKALINE		
Al2O3	12.50	0.48	0.31	C	0.01	OL*	2.70	NE*	9.23	GA*	88.07	SUBALKALINE
Fe2O3	1.97	0.06	0.03	OR	0.49	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
FeO	0.00	0.01	0.00	AB	0.17	A	65.05	F	25.68	M	9.27	CALC-ALKALINE
CaO	3.82	0.15	0.09	AN	0.42	AL2O3	0.48	NORM	PLAG	71.25	THOLEIITIC	
MgO	0.64	0.02	0.02	LC	0.00	AN	39.09	ABA*	15.77	OR	45.14	SODIC
Na2O	0.84	0.03	0.03	NE	0.00	CI	0.07	NORM	PLAG	71.25	HAWAIIITE	
K2O	3.65	0.14	0.10	KP	0.00	JENSEN CALC-ALKALINE RHYOLITE						
TiO2	0.17	0.01	0.00	AC	0.00	AL	85.18	FE	9.31	MG	5.51	
P2O5	0.04	0.00	0.00	DI	0.00	COLOR INDEX : 0.07						
MnO	0.00	0.00	0.00	HE	0.00	HASHIMOTO INDEX : 47.93						
S	2500.00	96.36	97.94	EN	0.04							
NiO	0.00	0.00	0.00	ES	0.00							
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	3.77	0.00	0.00	MI	0.00							
TOTAL	*****	100.00	100.00	IL	97.94							
				CR	0.00							
				HM	0.03							
				AP	0.00							
				PO	195.88							
				NS	0.00							
				KS	0.00							
				RU	97.94							
				AG	0.00							
				DL	0.00							
				OPX	0.04							
				CPX	0.00							
				ABA	0.17							

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	4.00:LI	-10.00:BE	-5.00:B	-10.00:V	30.00:CR	88.00:MN	460.00:CO	2.00:NI	5.00:
CU	82.00:ZN	11.00:GA	10.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	59.00:SR	34.00:Y	-10.00:
ZR	66.00:NB	-10.00:MO	-2.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	743.00:
LA	15.00:CE	24.00:ND	8.60:SM	1.50:EU	0.40:GD	1.10:DY	1.60:ER	1.40:LU	0.30:
HF	1.00:TA	3.00:W	-3.00:PB	-2.00:BI	-0.50:IH	8.00:U	3.50:IN	-1.00:TL	-1.00:

COMMENTS : GEP SILL

REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:41:36

SAMPLE ID # AB15415

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092813  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PF-87-3 START DEPTH : 345.60 END DEPTH : 345.70

FIELD NAME : VOLCANIC, INTERMEDIATE, COARSE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 18-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS
SiO2	53.60	0.44	0.24	Q 0.05
Al2O3	18.70	0.15	0.10	C 0.01
Fe2O3	7.61	0.02	0.01	OR 0.06
FeO	0.00	0.04	0.02	AB 0.14
CaO	5.54	0.05	0.03	AN 0.12
MgO	2.71	0.02	0.02	LC 0.00
Na2O	3.34	0.03	0.03	NE 0.00
K2O	2.11	0.02	0.01	KP 0.00
TiO2	0.71	0.01	0.00	AC 0.00
P2O5	0.21	0.00	0.00	DI 0.00
MnO	0.00	0.00	0.00	HE 0.00
S	12000.00	99.22	99.55	EN 0.04
NiO	0.00	0.00	0.00	FS 0.00
Cr2O3	0.00	0.00	0.00	FO 0.00
CO2	0.00	0.00	0.00	FA 0.00
H2O+	0.00	0.00	0.00	WD 0.00
H2O-	0.00	0.00	0.00	LN 0.00
LOI	3.93	0.00	0.00	MT 0.00
TOTAL	*****	100.00	100.00	IL 99.53
				CR 0.00
				HM 0.01
				AP 0.00
				PD 199.10
				NS 0.00
				KS 0.00
				RU 99.54
				AG 0.00
				DL 0.00
				OPX 0.04
				CPX 0.00
				ABA 0.14

CLASSIFICATIONS AND INDICES					
NA2O+K2O	0.05	SiO2	0.44	ALKALINE	
OLA	11.83	NEA	37.92	QA	50.25
SUBALKALINE					
CPX	0.00	OL	0.00	OPX	100.00
SUBALKALINE					
A	36.32	F	45.63	M	18.06
THOLEIITIC					
AL2O3	0.15	NORM	FLAG	46.55	THOLEIITIC
AN	38.08	ABA	43.72	OR	18.20
SODIC					
CI	0.04	NORM	FLAG	46.55	MUGEARITE
JENSEN CALC-ALKALINE ANDESITE					
AL	68.15	FE	19.36	MG	12.49
COLOR INDEX : 0.04					
HASHIMOTO INDEX : 35.18					

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

AU	4.00:LI	-10.00:BE	-5.00:B	-10.00:V	200.00:CR	52.00:MN	380.00:CO	35.00:NI	13.00:
CU	550.00:ZN	28.00:GA	15.00:GE	-10.00:AS	-1.00:SE	7.00:RM	-10.00:SR	282.00:Y	-10.00:
ZR	41.00:NB	-10.00:MO	35.00:AG	-0.50:CD	-1.00:SH	-10.00:SB	-0.20:CS	-1.00:BA	1360.00:
LA	8.00:CE	16.00:ND	9.60:SM	2.30:EU	0.80:GD	2.20:DY	2.70:ER	1.90:LU	0.30:
HF	-1.00:IA	3.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.50:IN	-1.00:TL	-1.00:

COMMENTS : COARSE FSPAR PHYRIC ANDESITIC FLOW



REPORT #2000

PAGE 1  
 PRINTED 23-JUL-87  
 12:42:21

SAMPLE ID # AB15416

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 27918  
 TOWNSHIP :  
 NTS : 092E13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : PROJECT # 1117  
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA  
 PROJECT : PF OPTION  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : PE-87-3 START DEPTH : 352.10 END DEPTH : 352.20

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : D.P. MONEY  
 ANALYZED BY : XRAL

DATE : 18-MAY-87  
 DATE : 25-MAY-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

	WT X	NORMALIZED ANHYDROUS WT X	NORMALIZED ANHYDROUS CATION X	NORMS
SI02	55.10	3.07	1.68	Q 0.36
AL2O3	17.00	0.95	0.61	C 0.05
FE2O3	7.04	0.12	0.05	DR 0.14
FE0	0.00	0.24	0.11	AB 1.12
CA0	4.95	0.28	0.16	AN 0.78
HGB	5.55	0.31	0.25	LC 0.00
NA2O	3.79	0.21	0.22	NE 0.00
K2O	0.73	0.04	0.03	KP 0.00
TIO2	0.74	0.04	0.02	AC 0.00
P2O5	0.13	0.01	0.00	DI 0.00
MNO	0.00	0.00	0.00	HE 0.00
S	1700.00	94.73	96.87	EN 0.50
NIO	0.00	0.00	0.00	FS 0.00
CR2O3	0.00	0.00	0.00	FO 0.00
CO2	0.00	0.00	0.00	EA 0.00
H2O+	0.00	0.00	0.00	WO 0.00
H2O-	0.00	0.00	0.00	LN 0.00
LOI	3.31	0.00	0.00	MT 0.00
TOTAL	*****	100.00	100.00	IL 96.76
				CR 0.00
				HM 0.05
				AP 0.01
				PO 193.74
				NS 0.00
				KS 0.00
				RU 96.78
				AG 0.00
				GL 0.00
				OPX 0.50
				CPX 0.00
				ABA 1.12

CLASSIFICATIONS AND INDICES

NA2O+K2O	0.25	SI02	3.07	ALKALINE		
OLA	19.08	NEA	33.90	GA	47.02	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	27.55	F	38.61	H	33.83	THOLEIITIC
AL2O3	0.95	NORM	PLAG	41.07	THOLEIITIC	
AN	38.21	ABA	54.83	DR	6.96	SODIC
CI	0.55	NORM	PLAG	41.07	MUGEARITE	
JENSEN CALC-ALKALINE BASALT						
AL	58.65	EE	17.14	MG	24.21	

COLOR INDEX : 0.55  
 HASHIMOTO INDEX : 41.81

TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)

AU	4.00:LI	-10.00:BE	-5.00:B	-10.00:V	300.00:CR	90.00:MN	780.00:CO	11.00:NI	20.00:
CU	100.00:ZN	52.00:GA	15.00:GE	-10.00:AS	-1.00:SE	-3.00:RB	26.00:SR	229.00:Y	-10.00:
ZR	29.00:NB	13.00:MO	8.00:AG	-0.50:CD	-1.00:SN	-10.00:SB	-0.20:CS	-1.00:BA	353.00:
LA	10.00:CE	20.00:ND	11.50:SM	2.40:EU	0.90:GD	2.50:DY	3.00:ER	1.90:LU	0.30:
HF	-1.00:IA	2.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.00:U	1.20:IN	-1.00:TL	-1.00:

COMMENTS : FINE GRAINED ANDESITIC FLOW

FIGURES C 1 TO C 7

Alkali - silica variation diagrams:  
Separation of alkaline and subalkaline  
suites (after Irvine and Baragar, 1971).

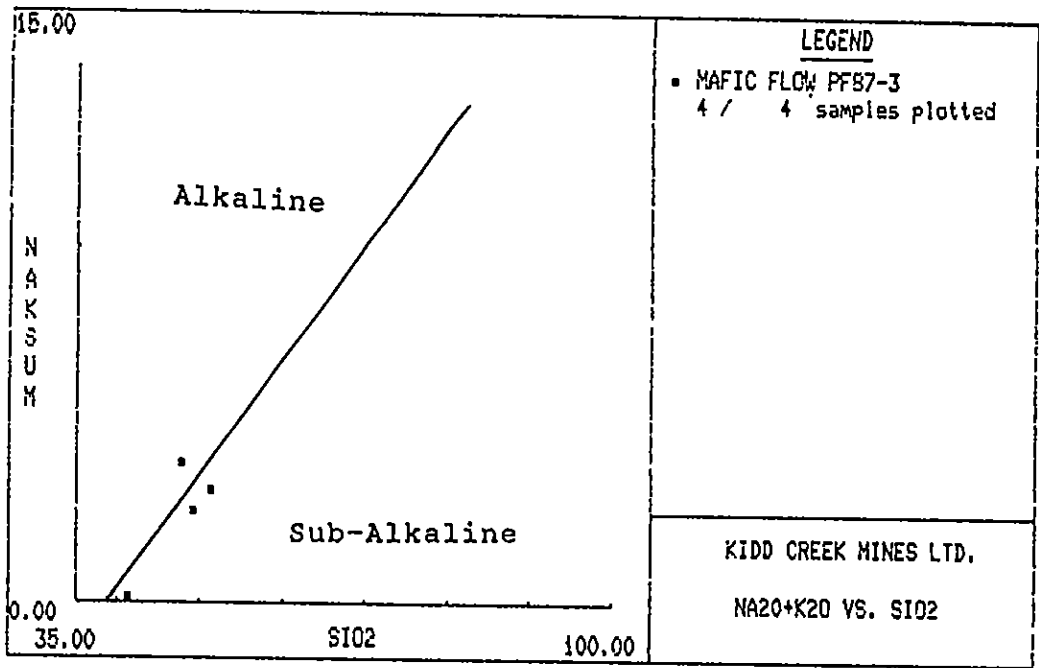


Figure C 1

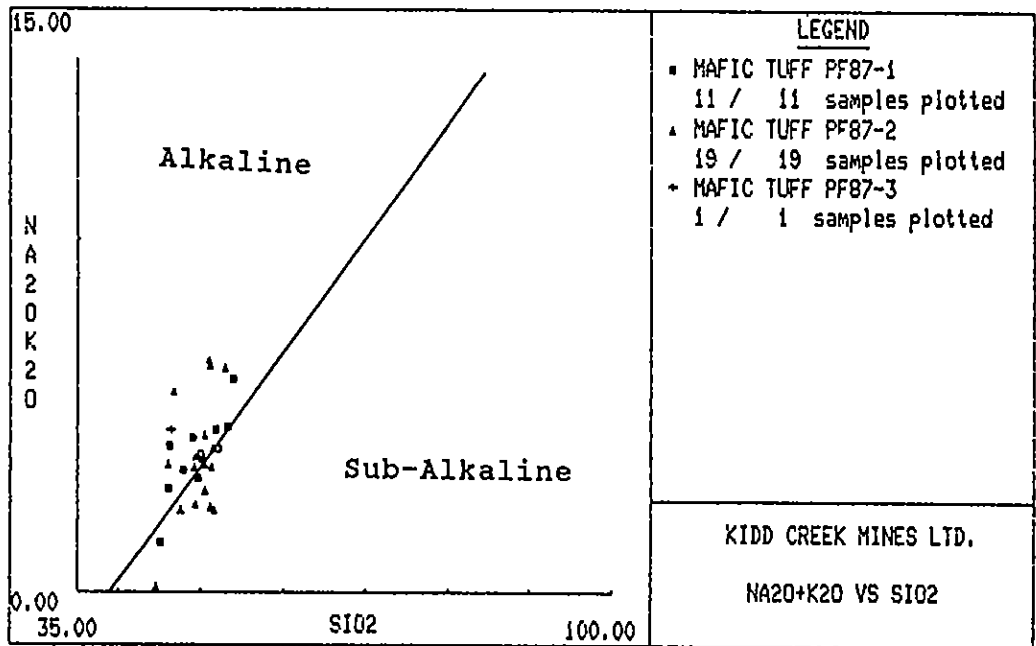


Figure C 2

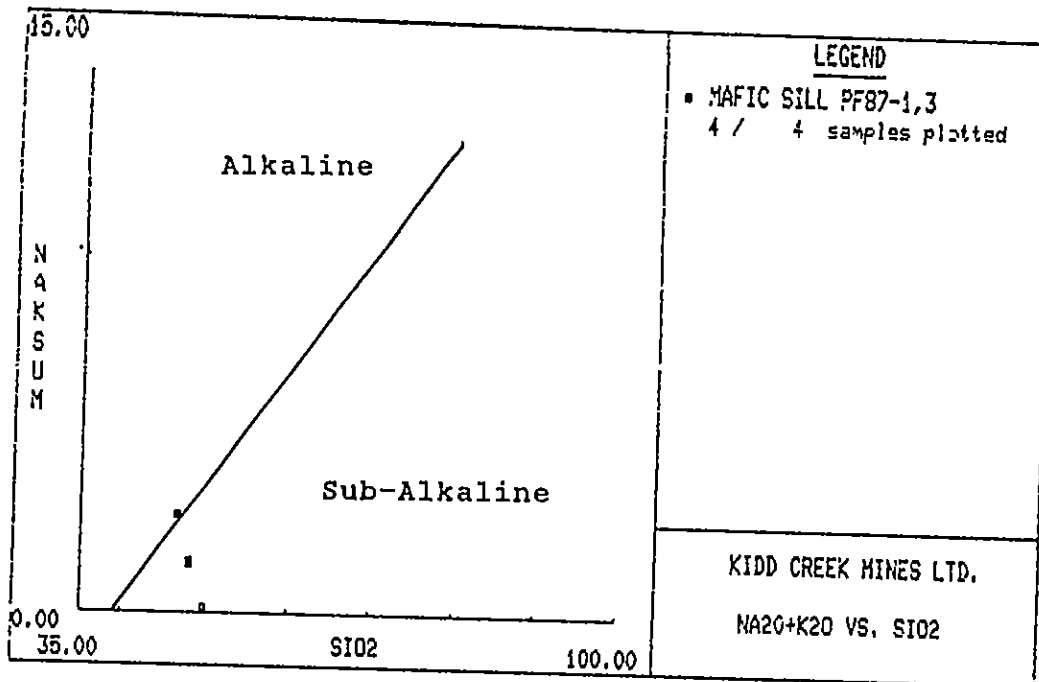


Figure C 3

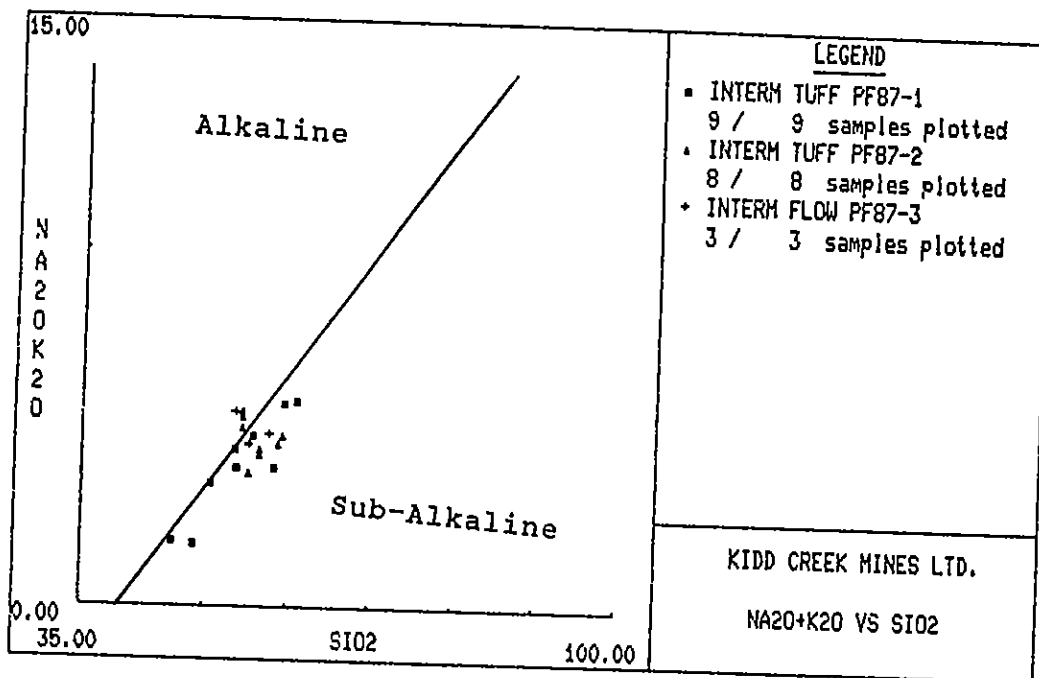


Figure C 4

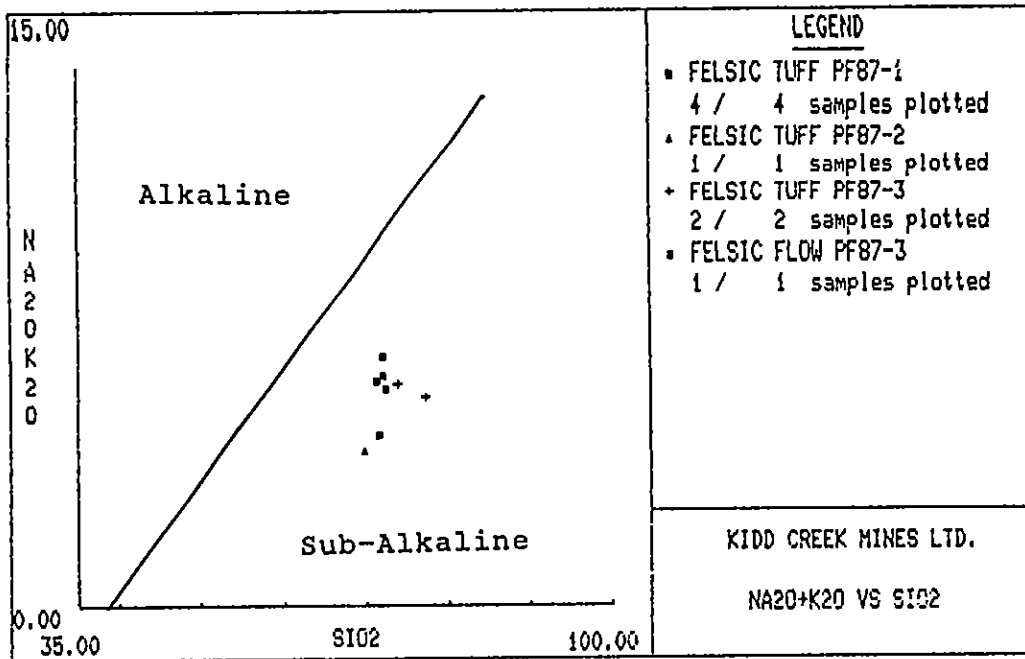


Figure C 5

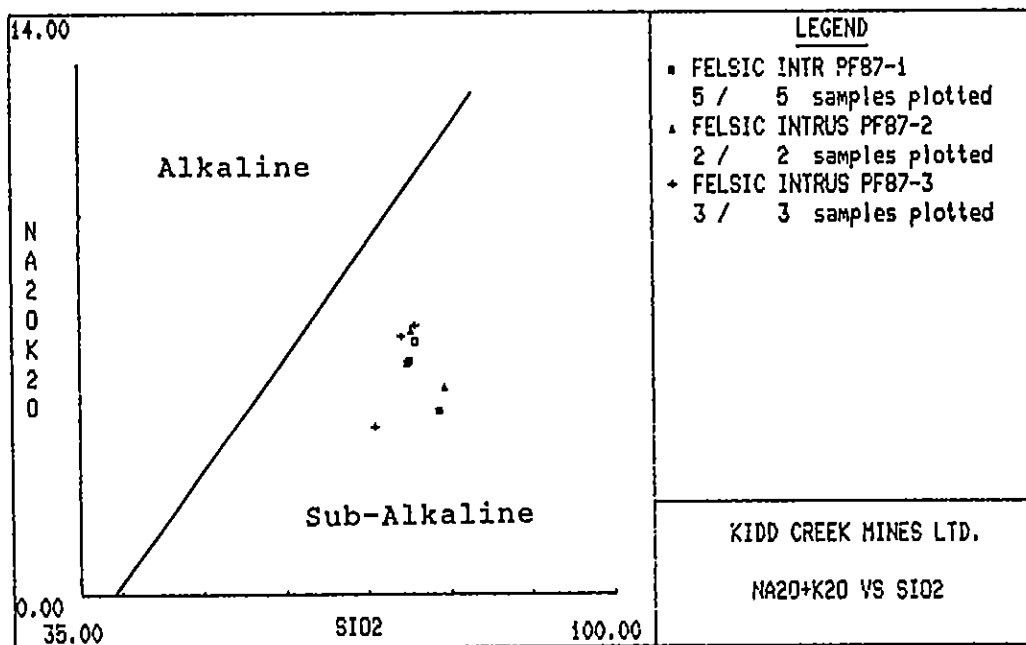


Figure C 6

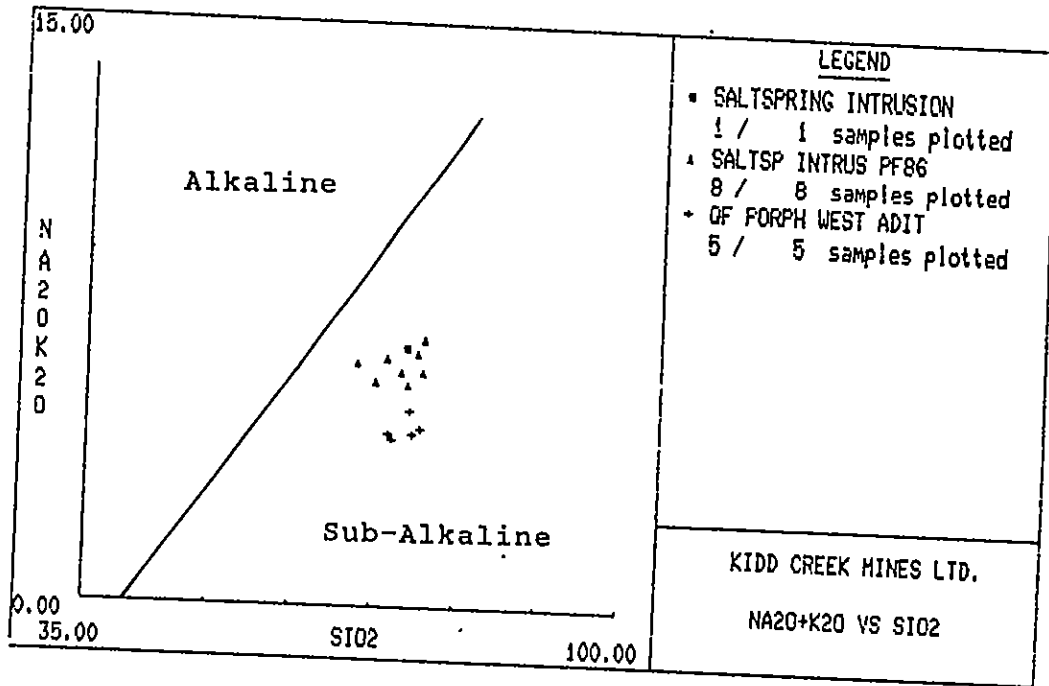


Figure C 7

FIGURES C 8 TO C 14

Silica vs. total Fe (as FeO)/MgO plot  
and separation of subalkaline lava suites  
(after Miyashiro, 1974).

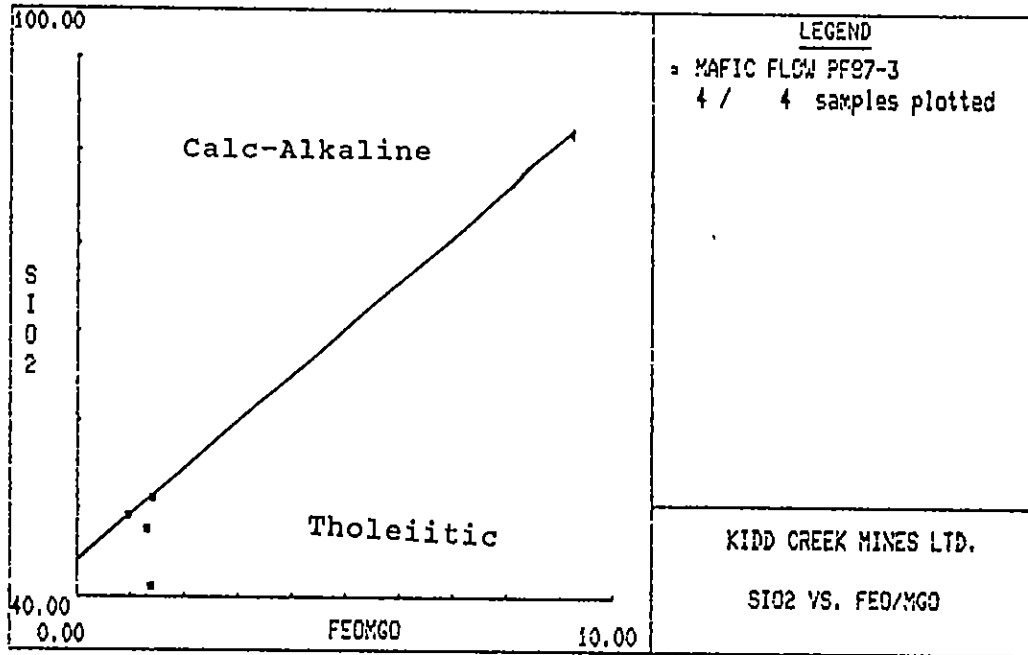


Figure C 8

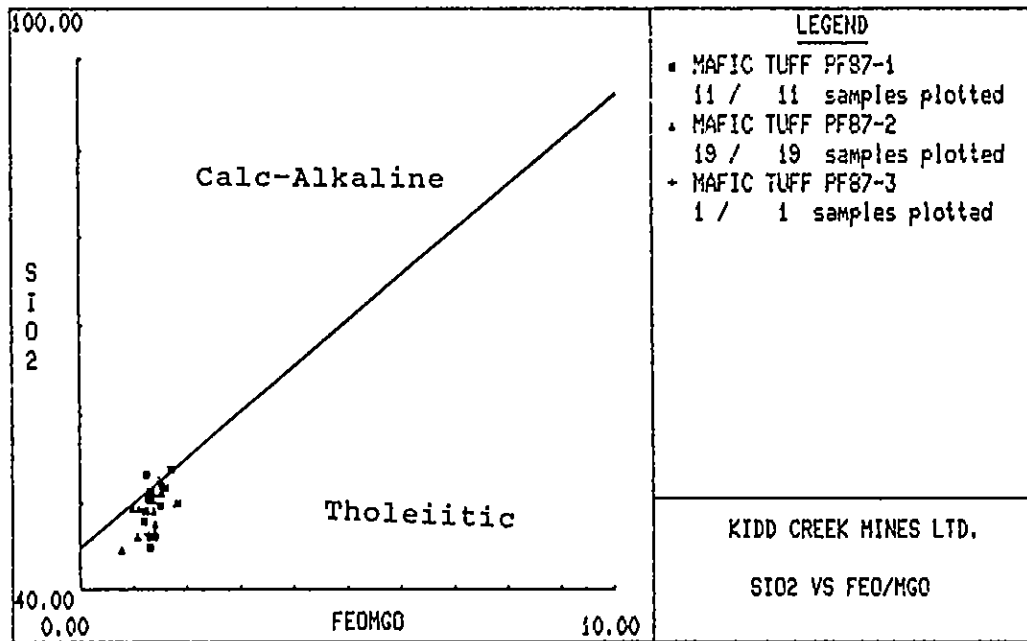


Figure C 9



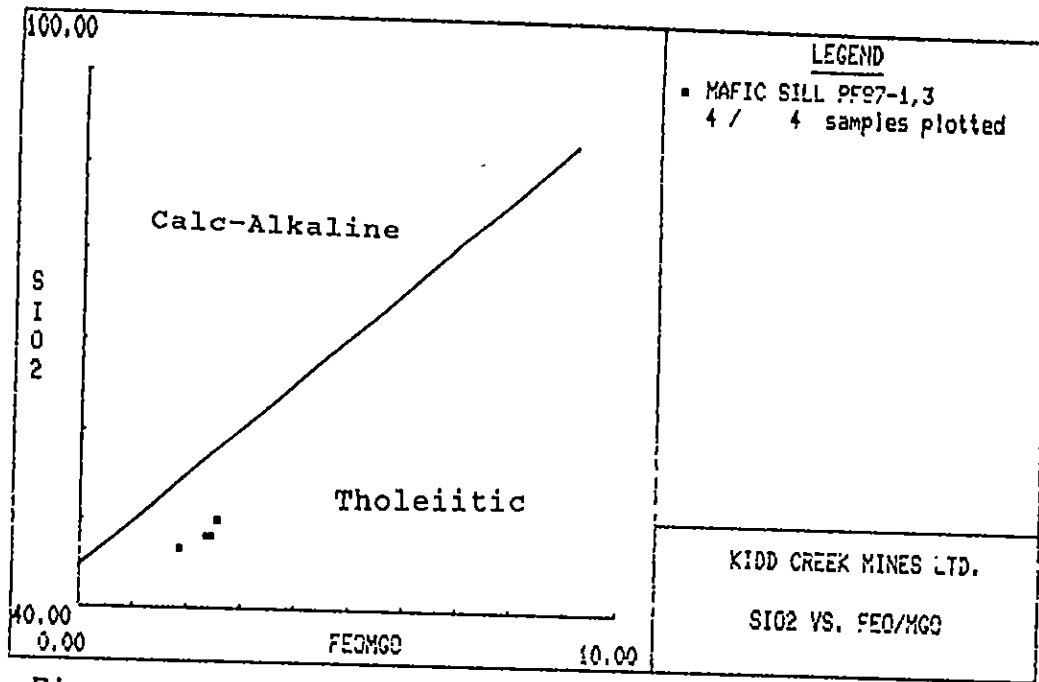


Figure C 10

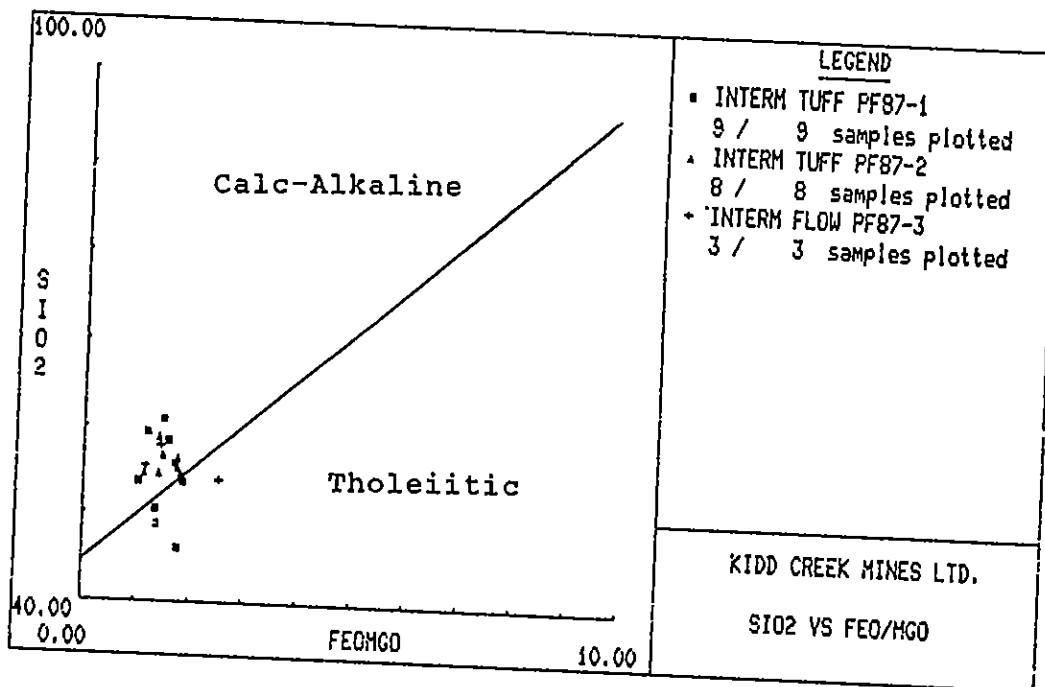


Figure C 11

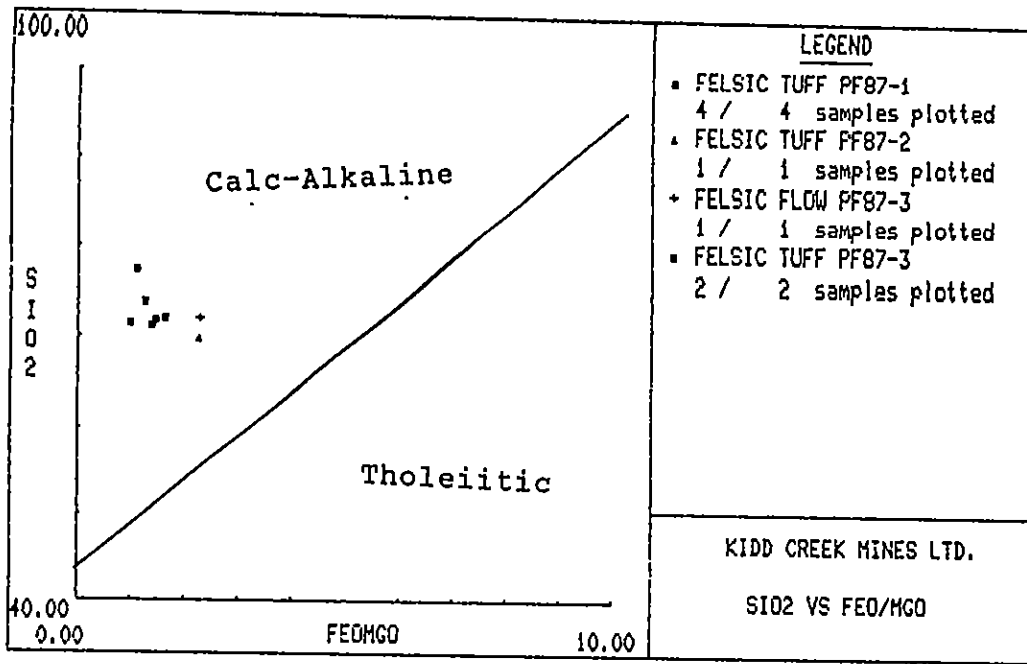


Figure C 12

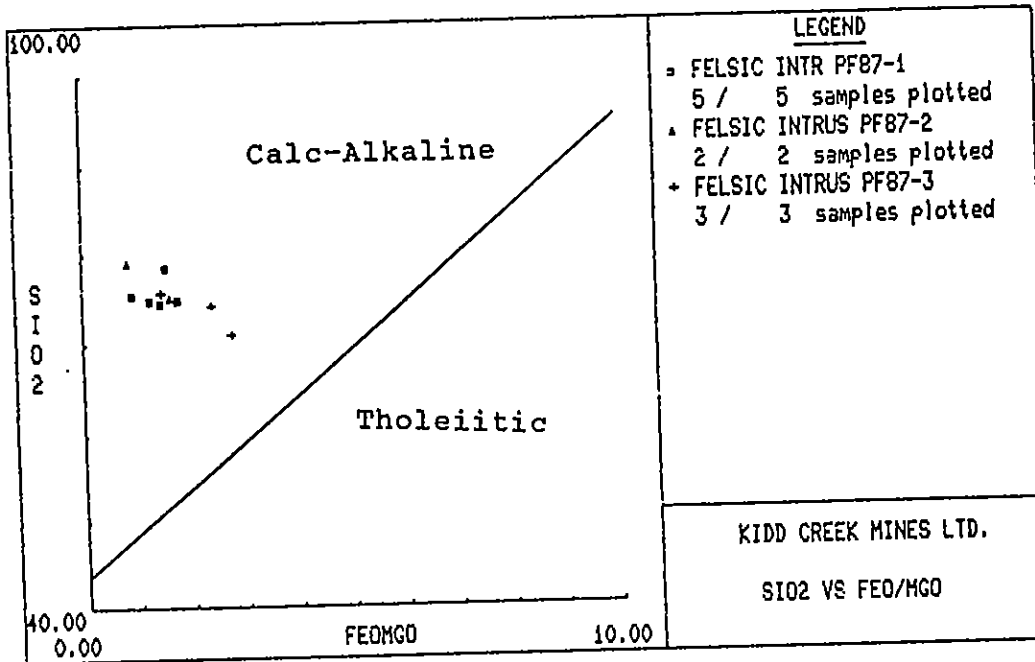


Figure C 13

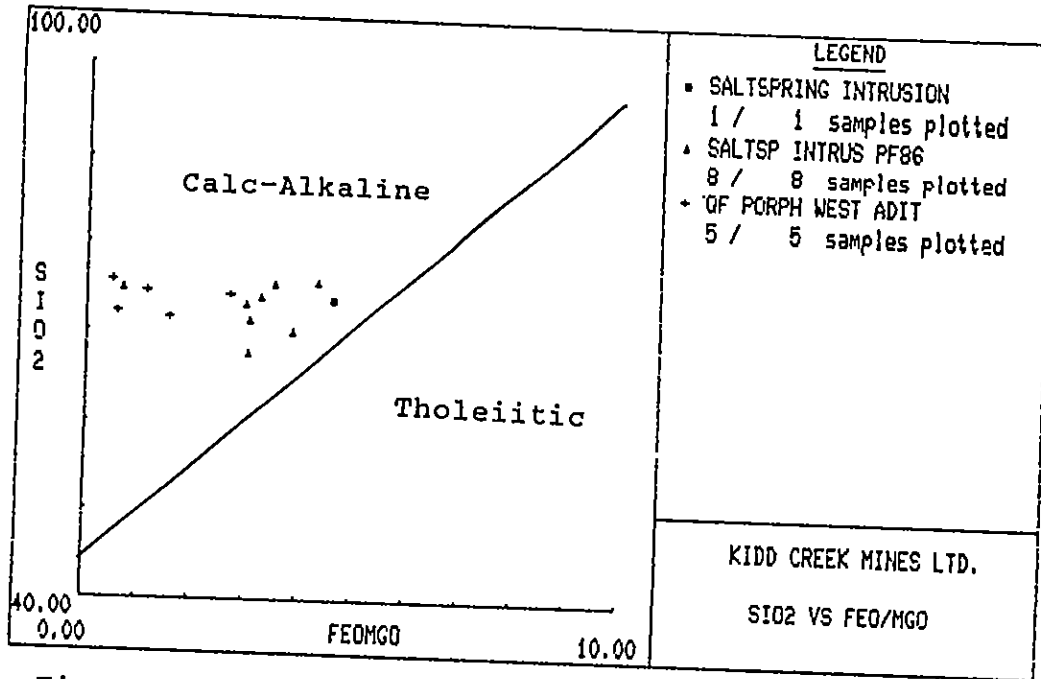


Figure C 14

FIGURES C 15 TO C 21

AFM diagrams:  
separation of calc-alkaline and tholeiitic  
volcanic suites (after Irvine and Baragar, 1971).

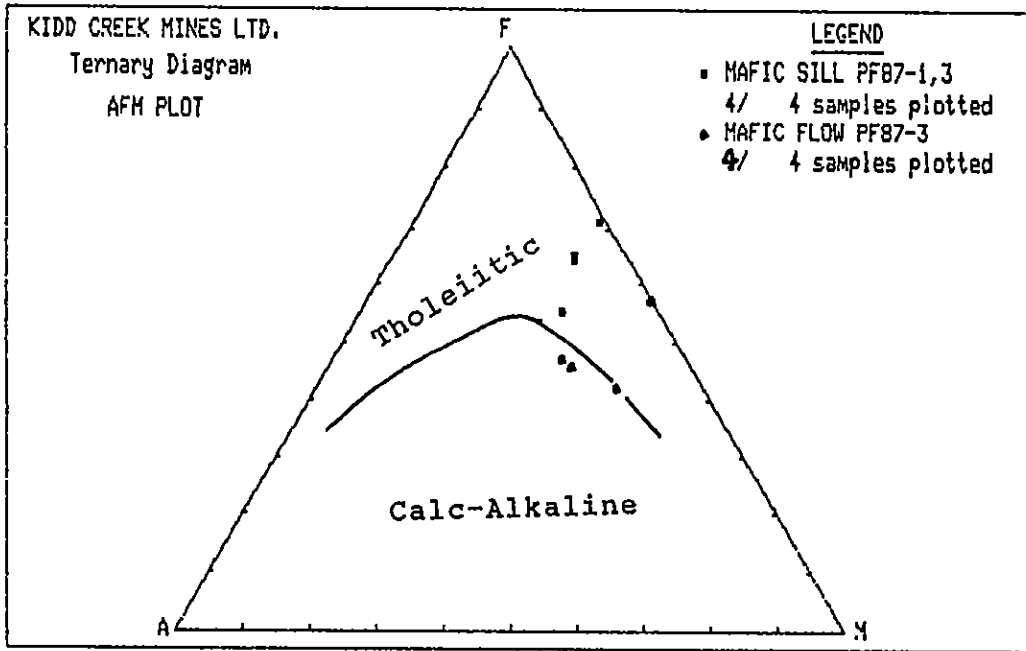


Figure C 15

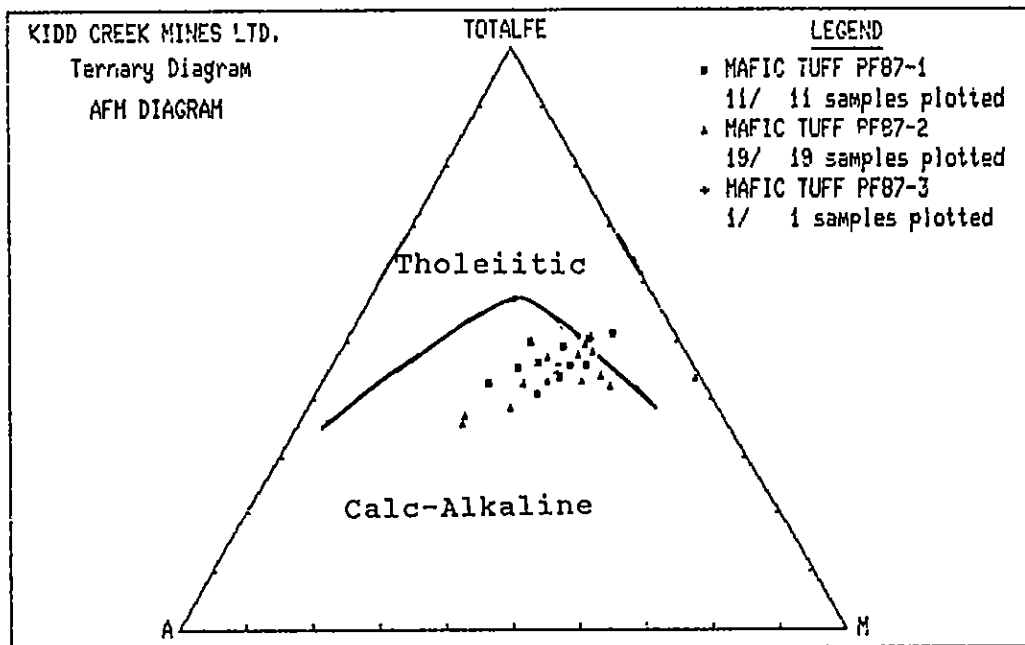


Figure C 16

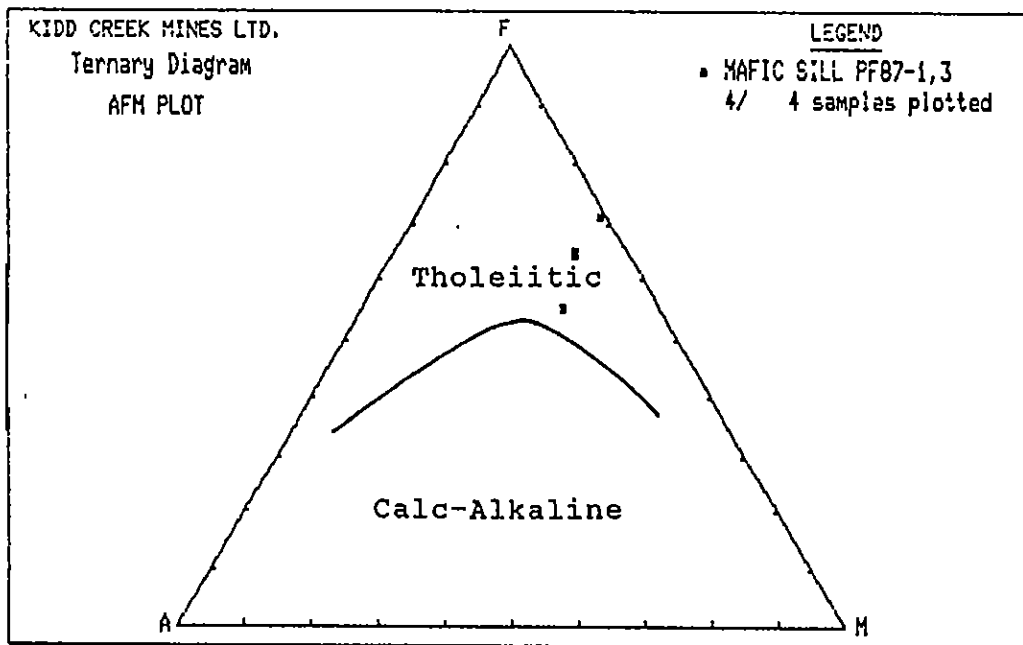


Figure C 17

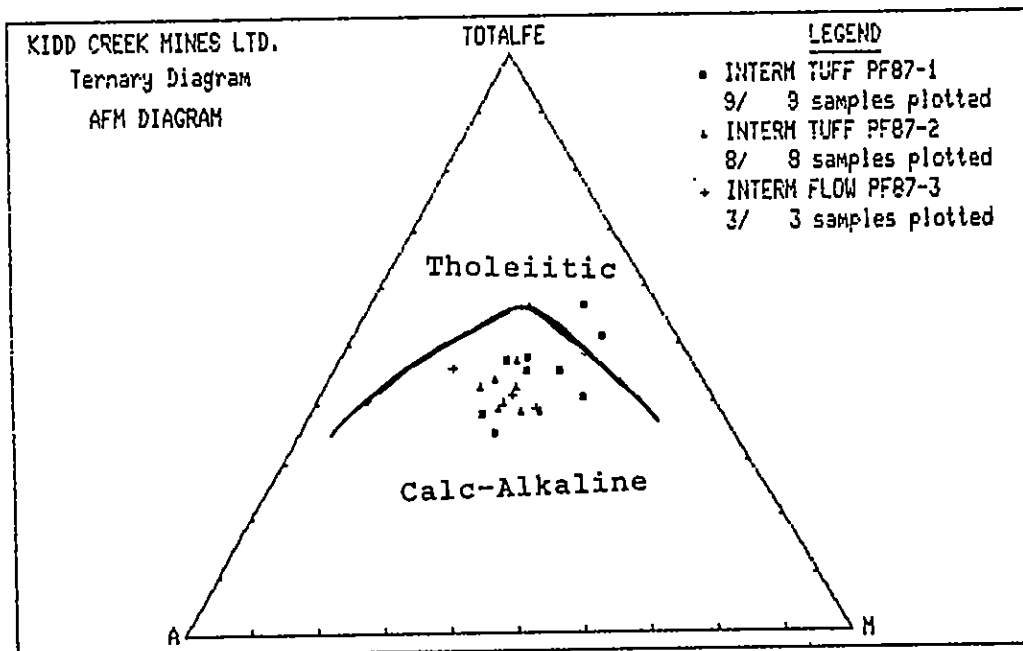


Figure C 18

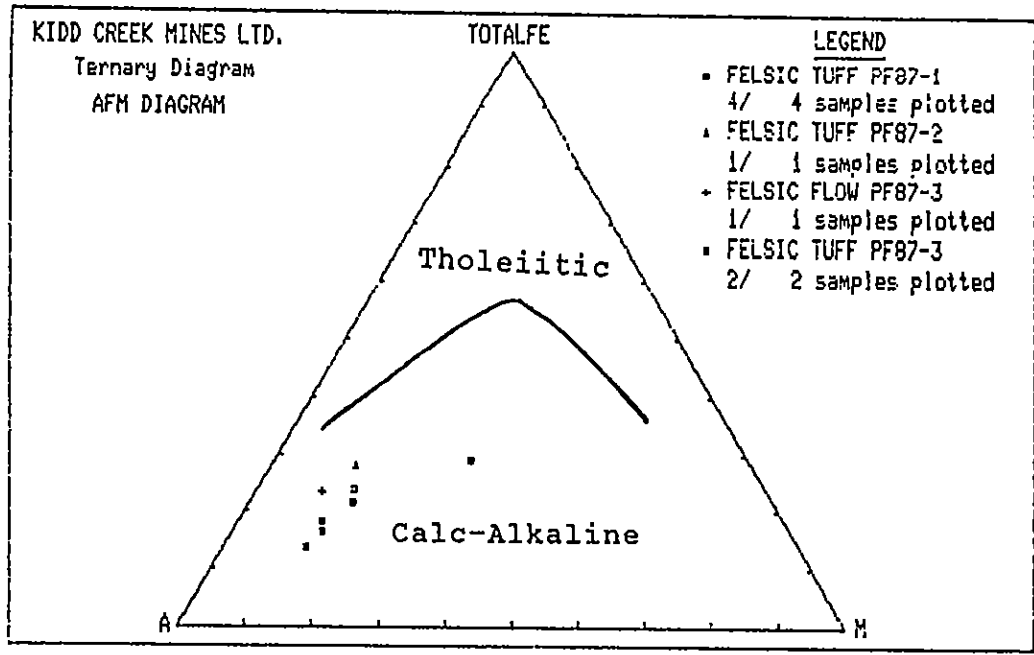


Figure C 19

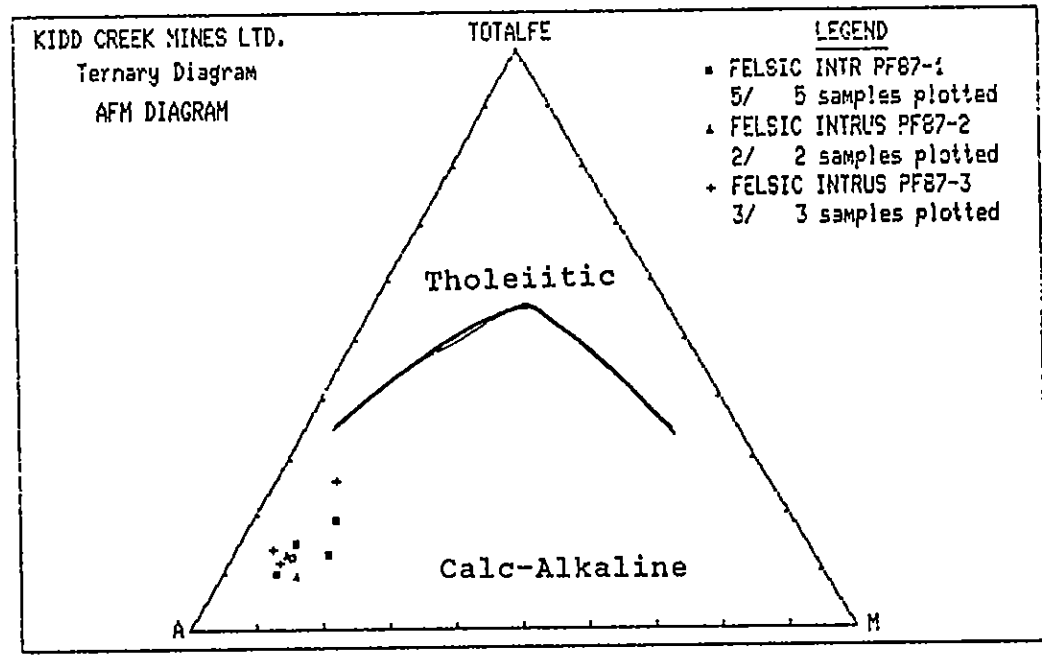


Figure C 20

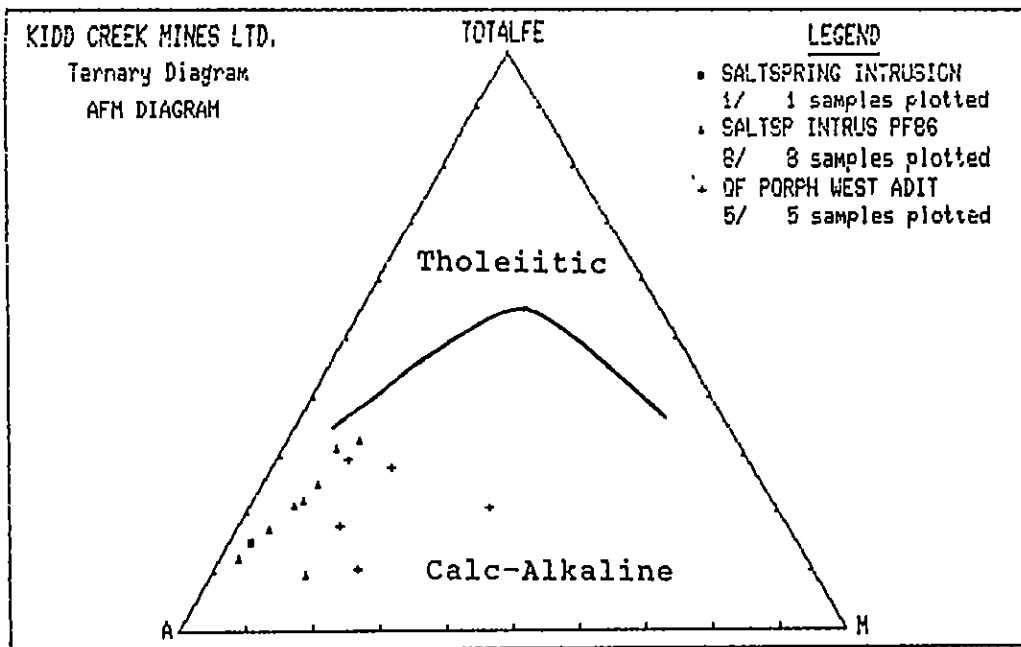


Figure C 21



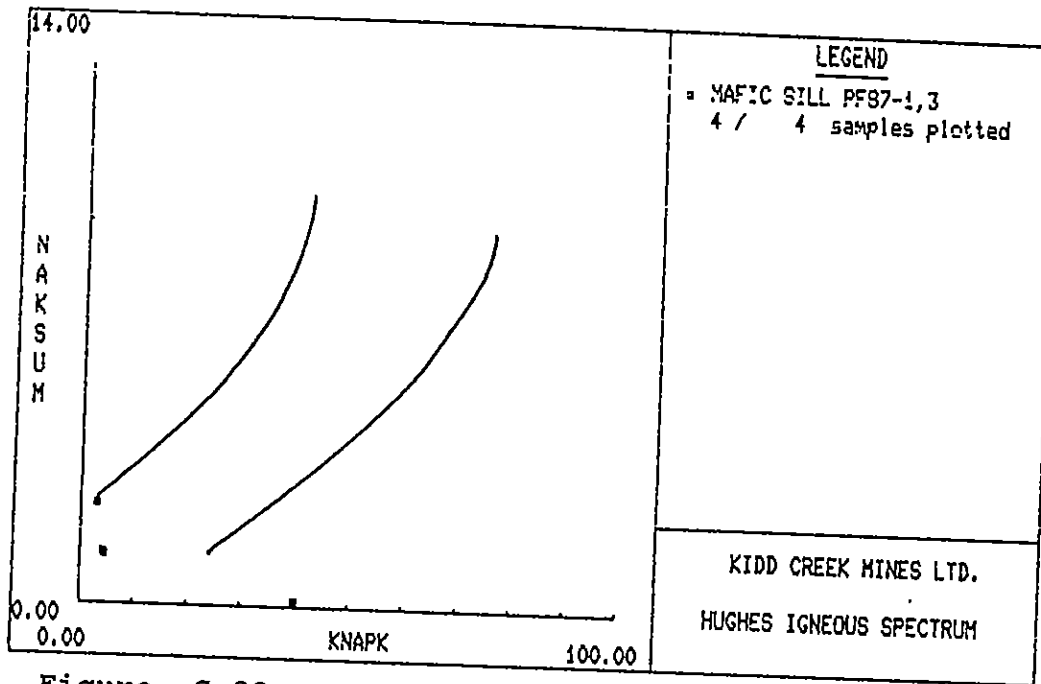


Figure C 22

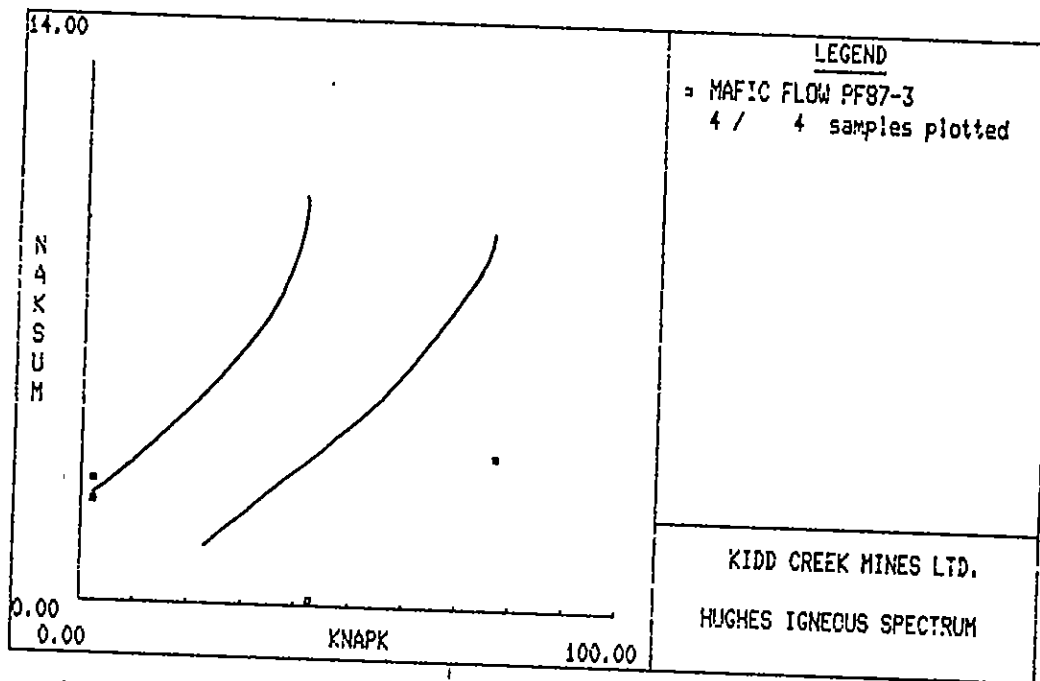


Figure C 23

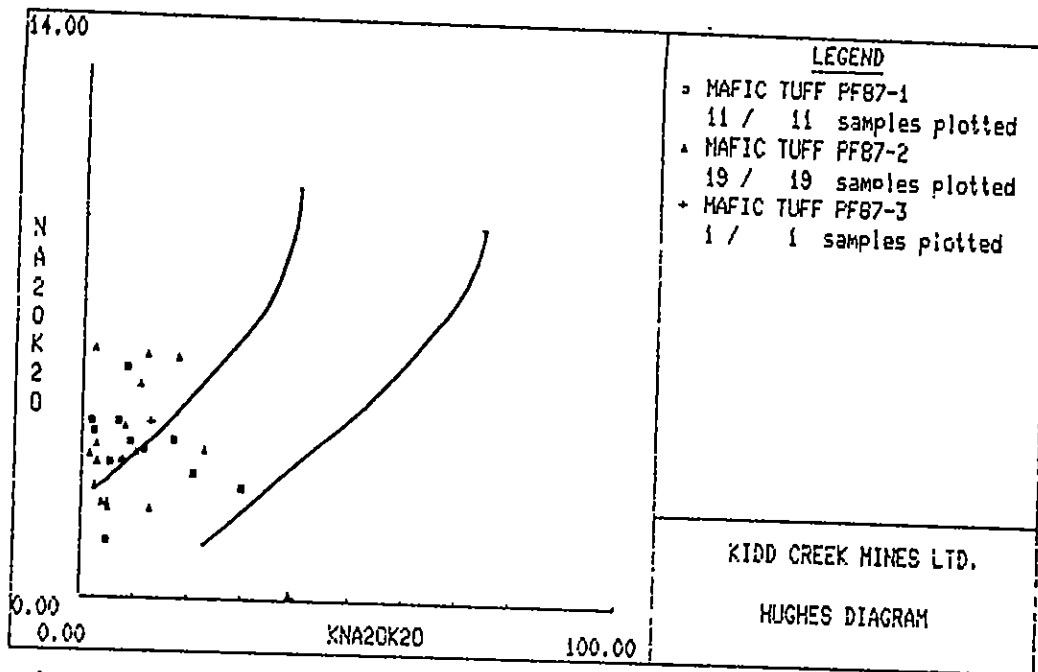


Figure C 24

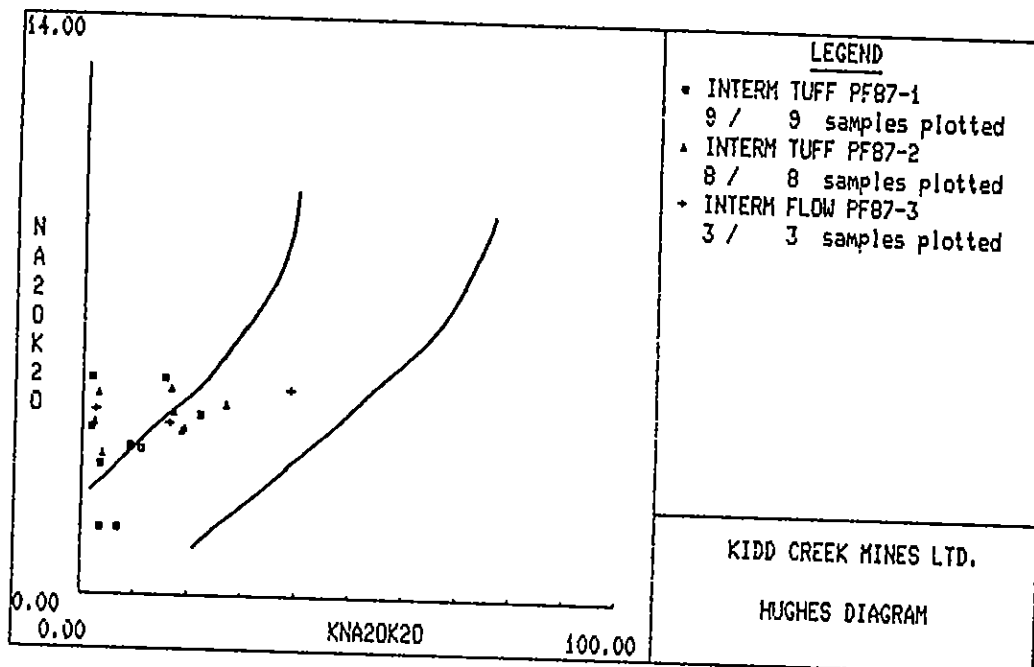


Figure C 25

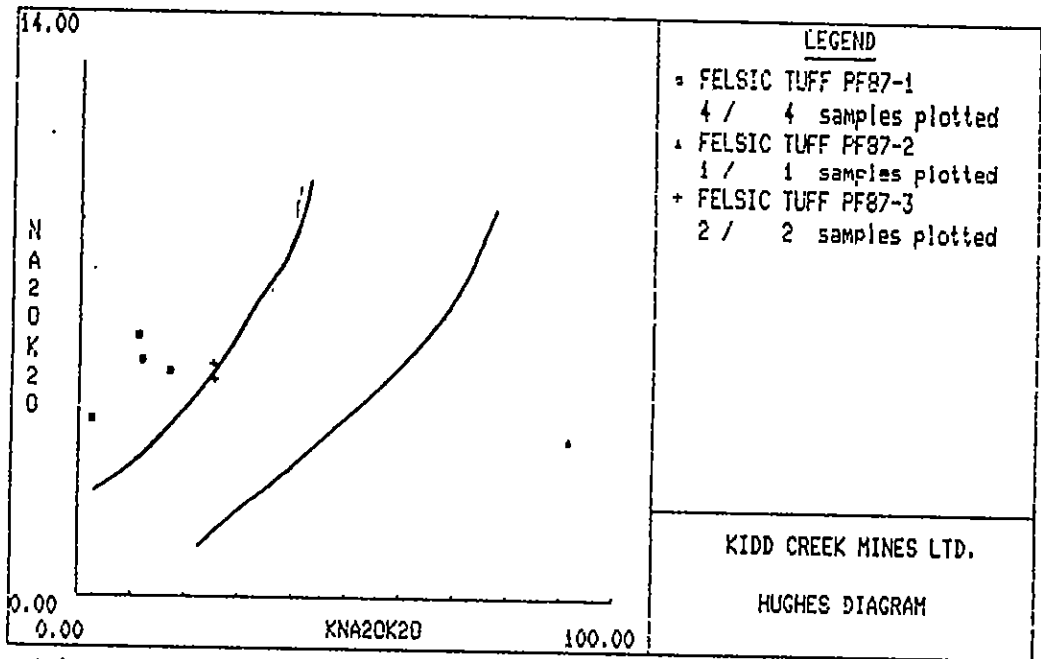


Figure C 26

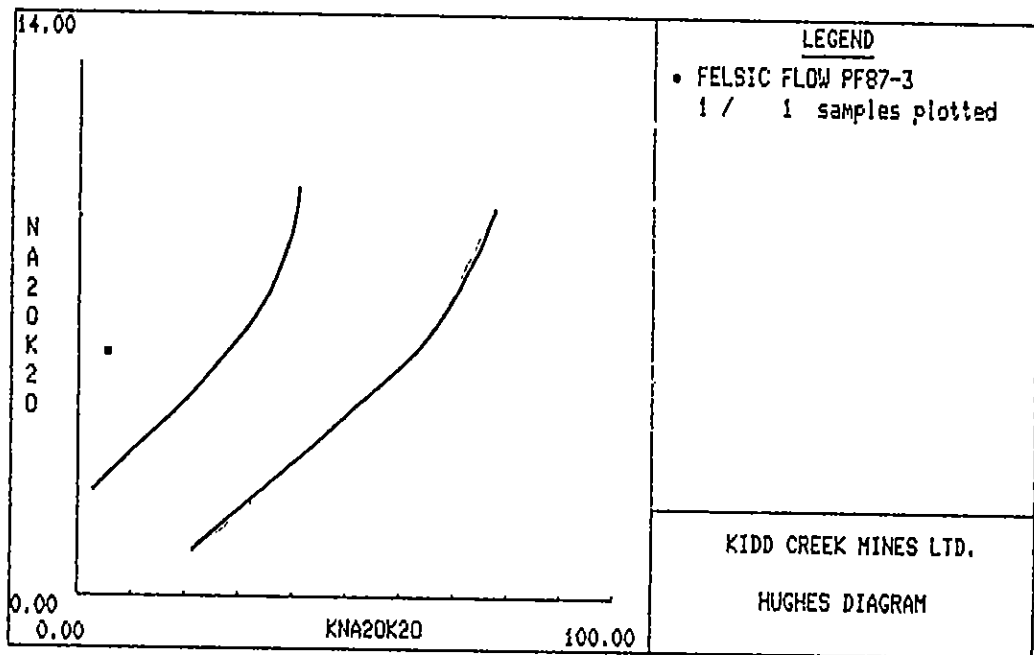


Figure C 26a

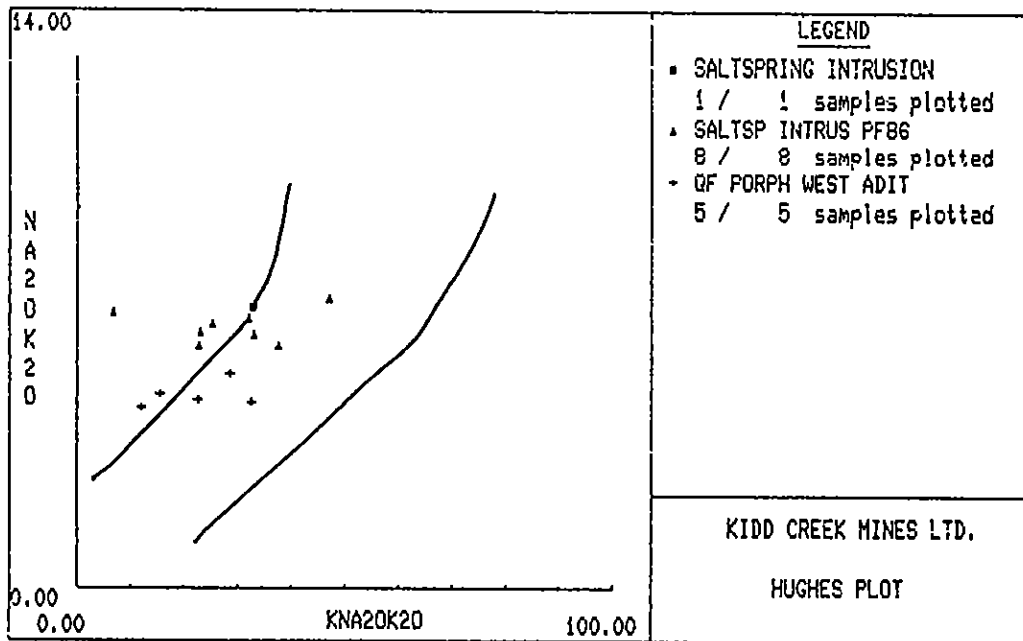


Figure C 27

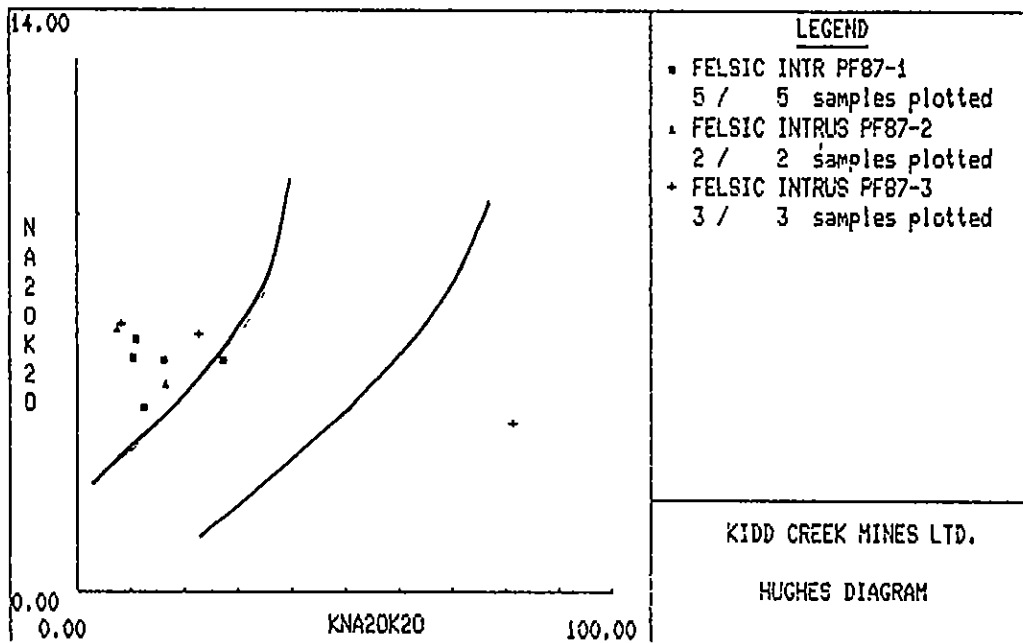


Figure C 28

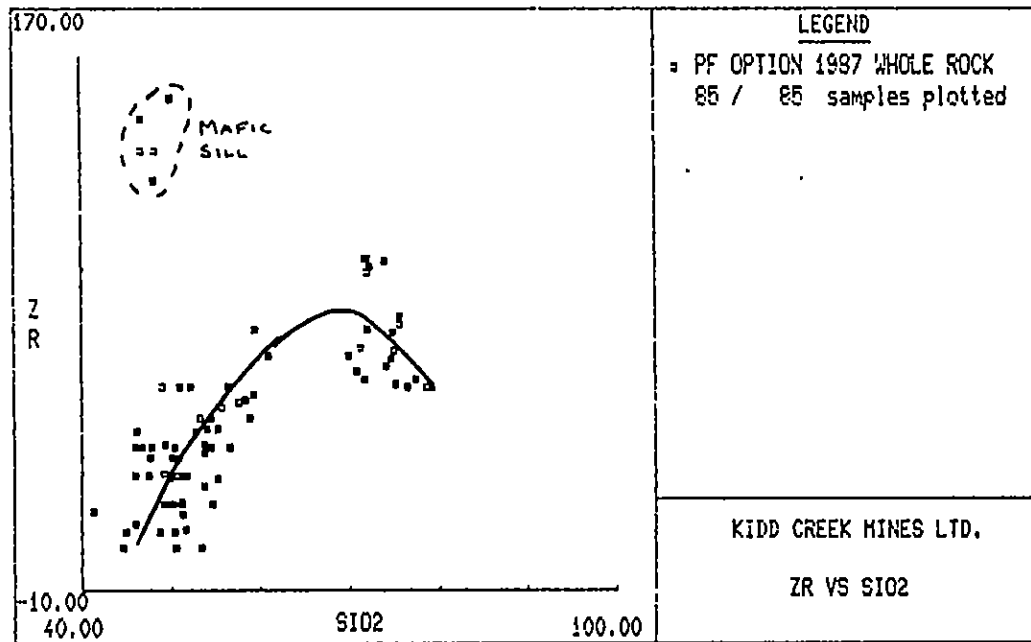


Figure C 29

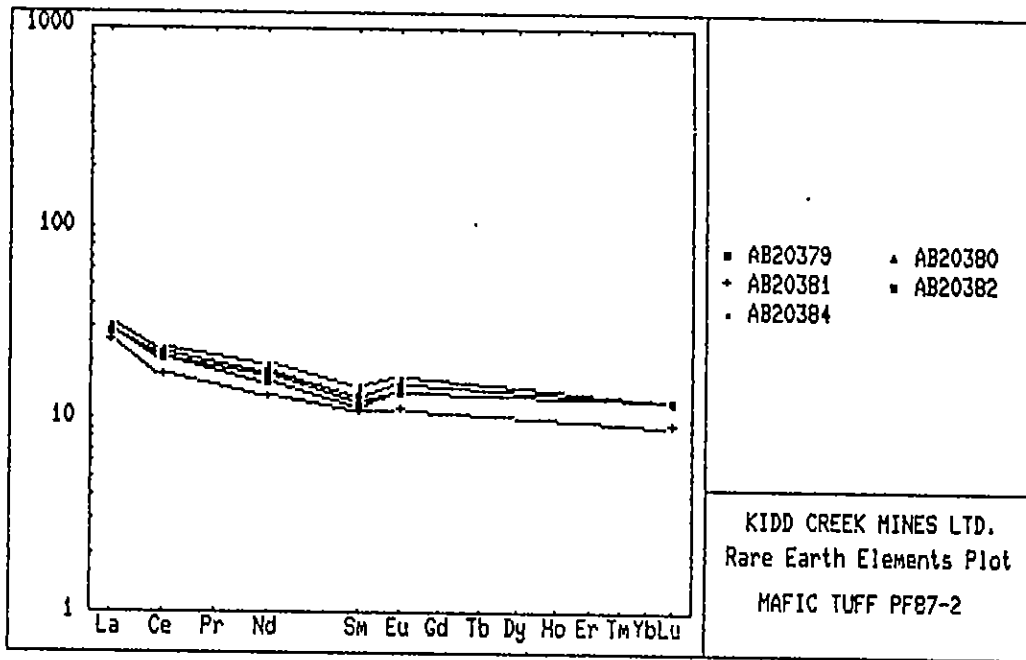


Figure C 30

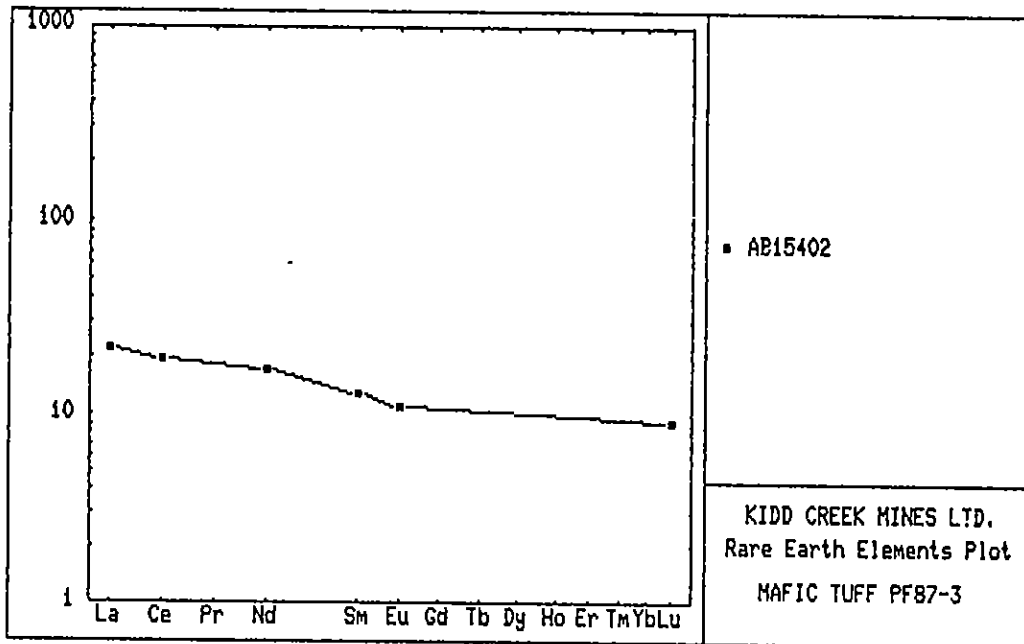


Figure C 31

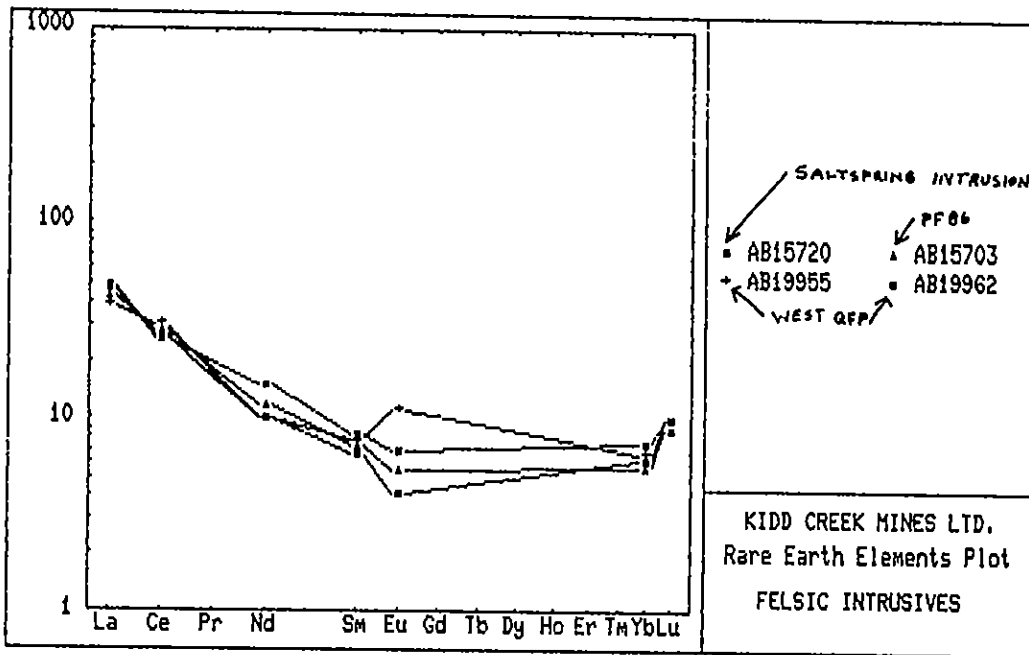


Figure C 36

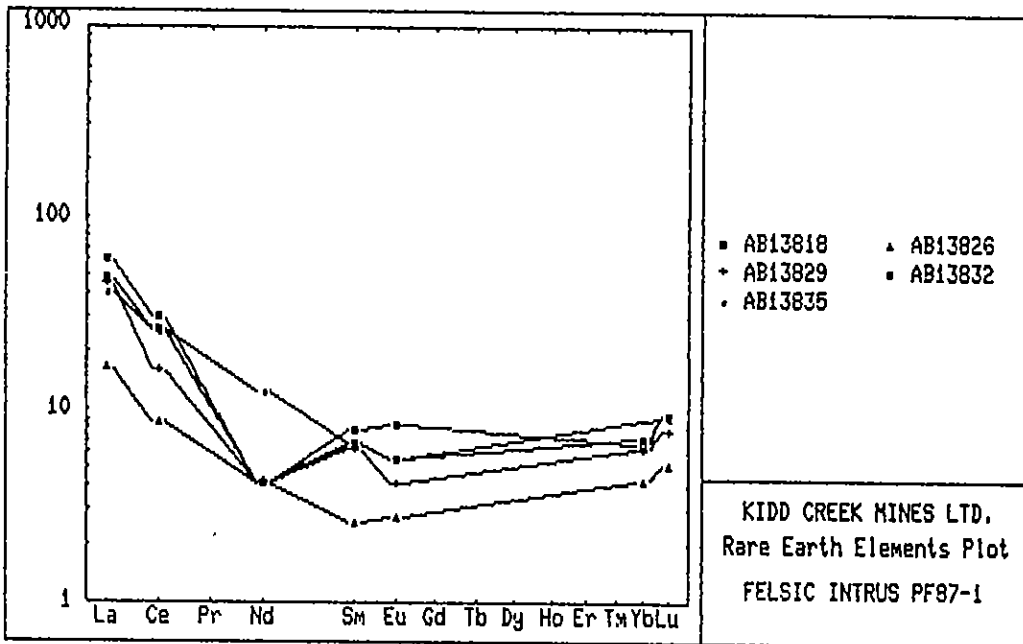


Figure C 37

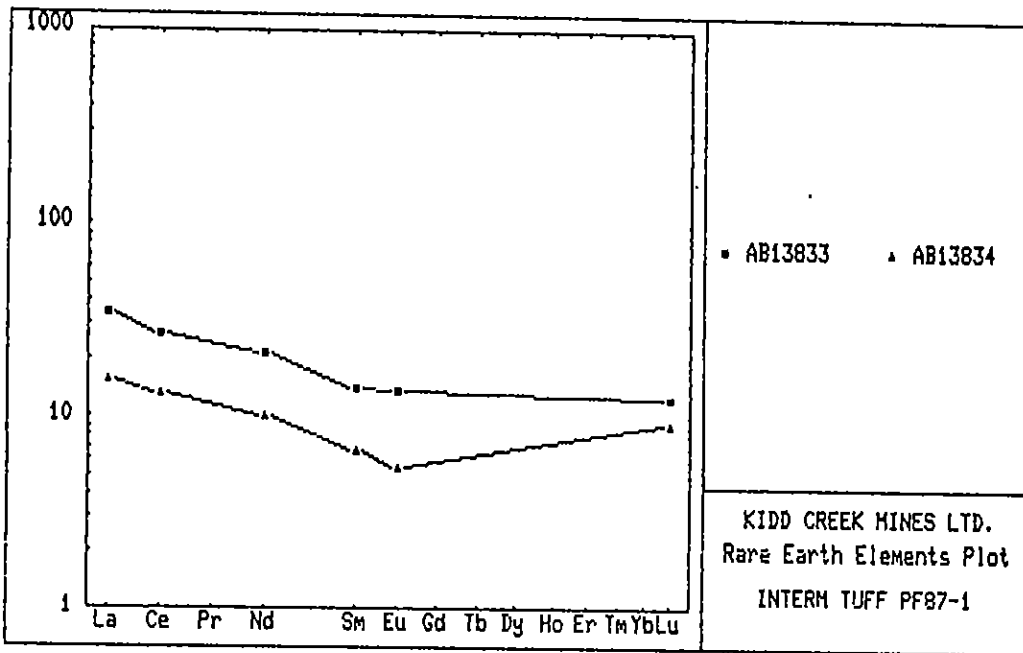


Figure C 34

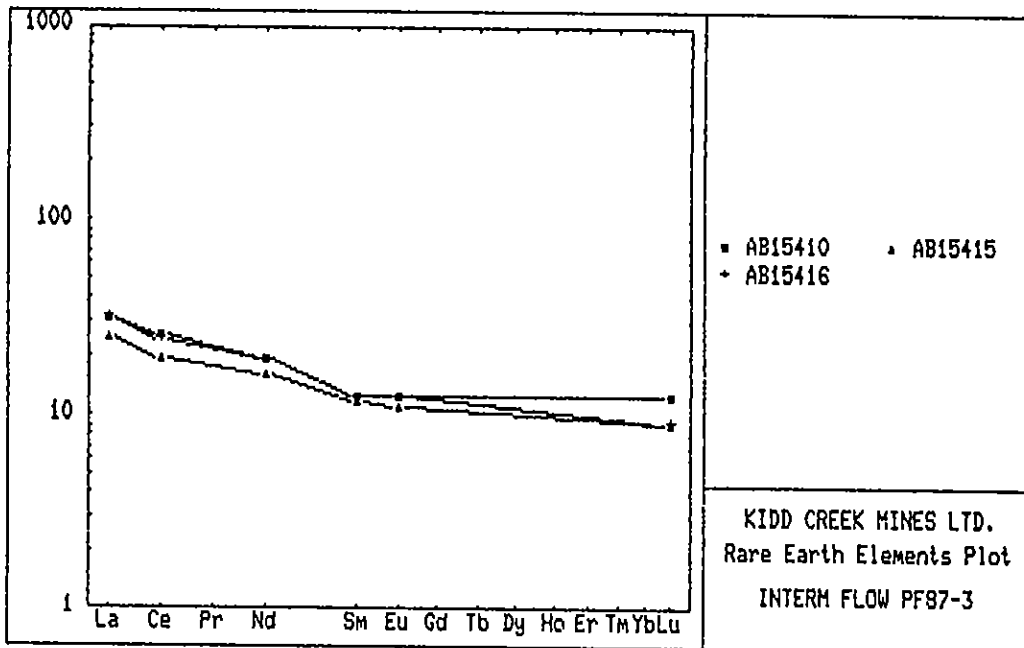


Figure C 35



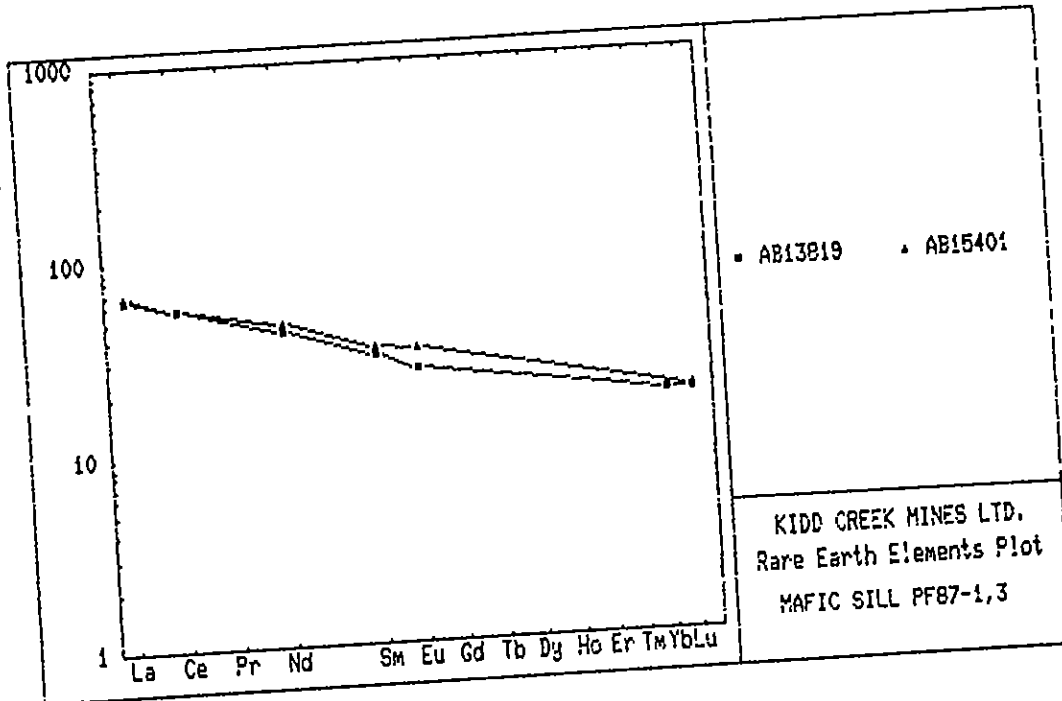


Figure C 32

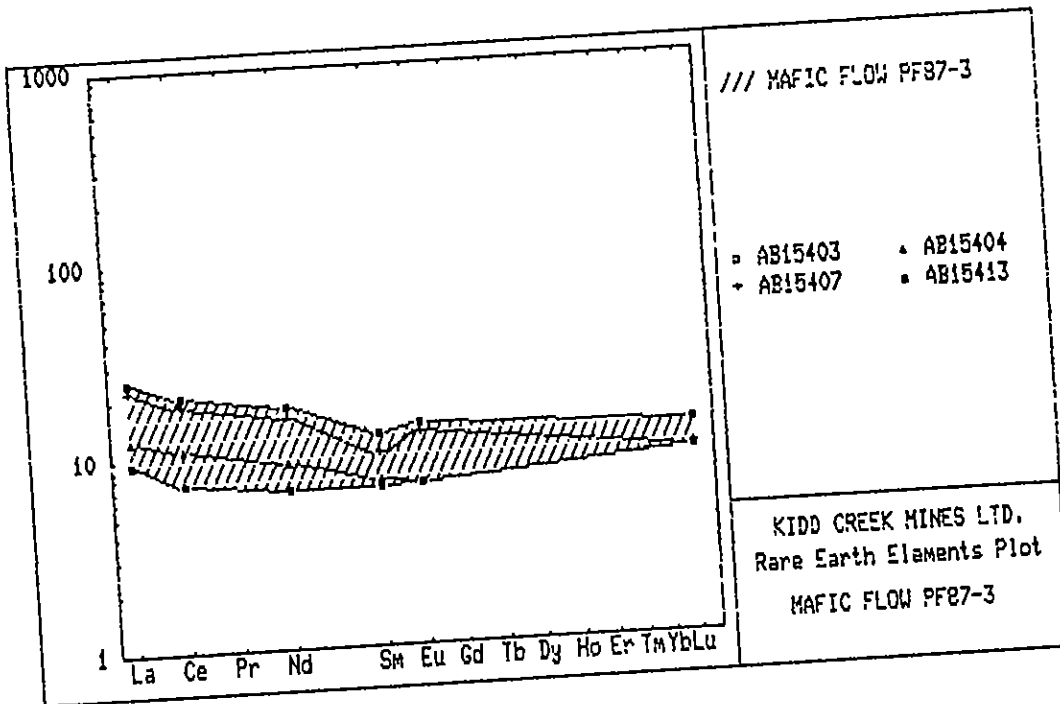


Figure C 33

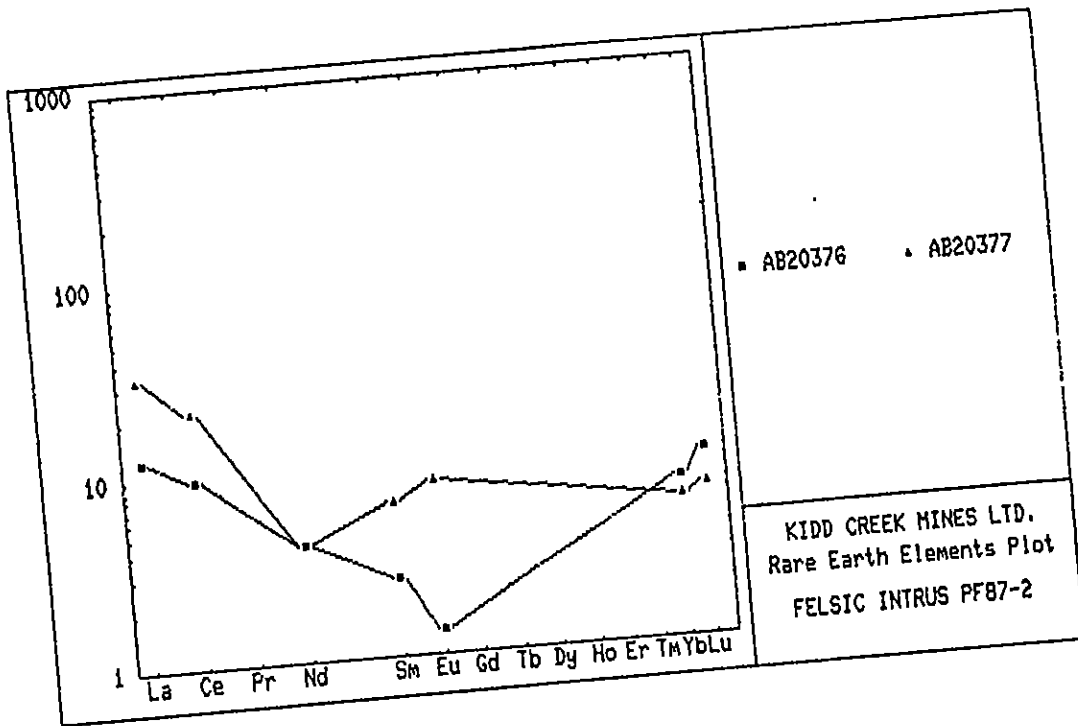


Figure C 38

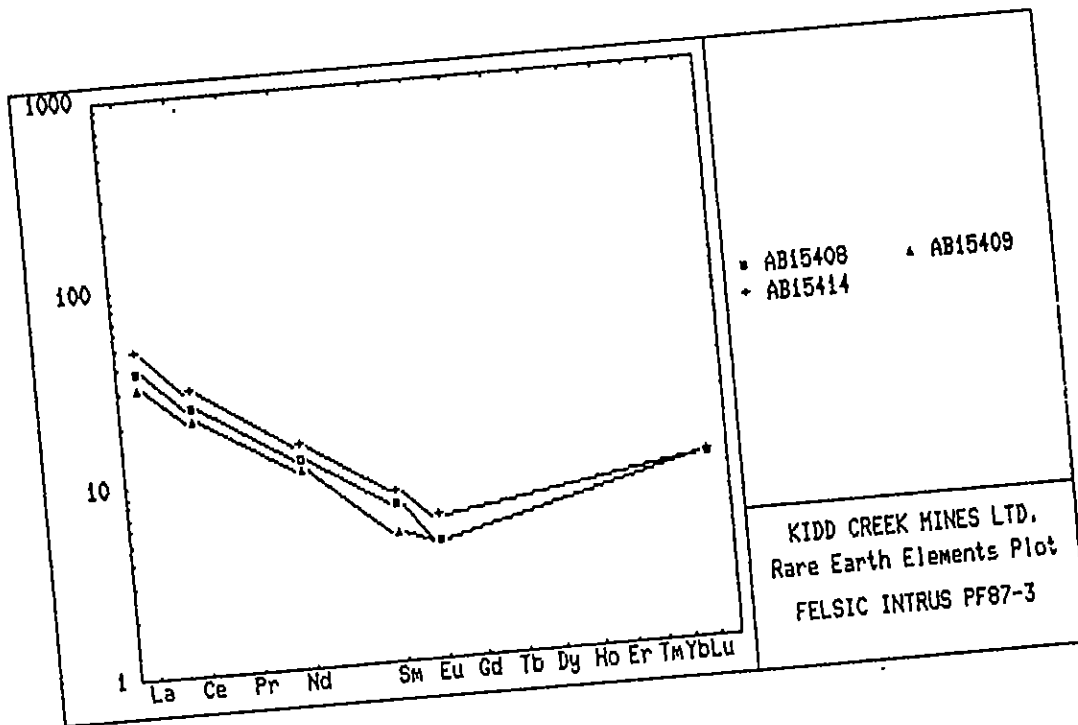


Figure C 39

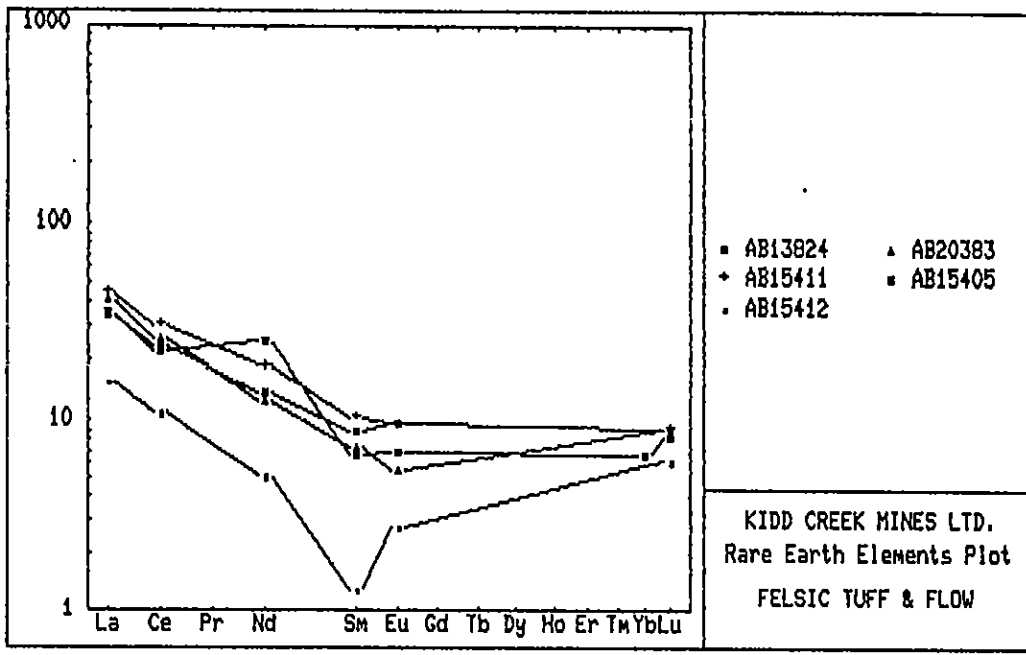
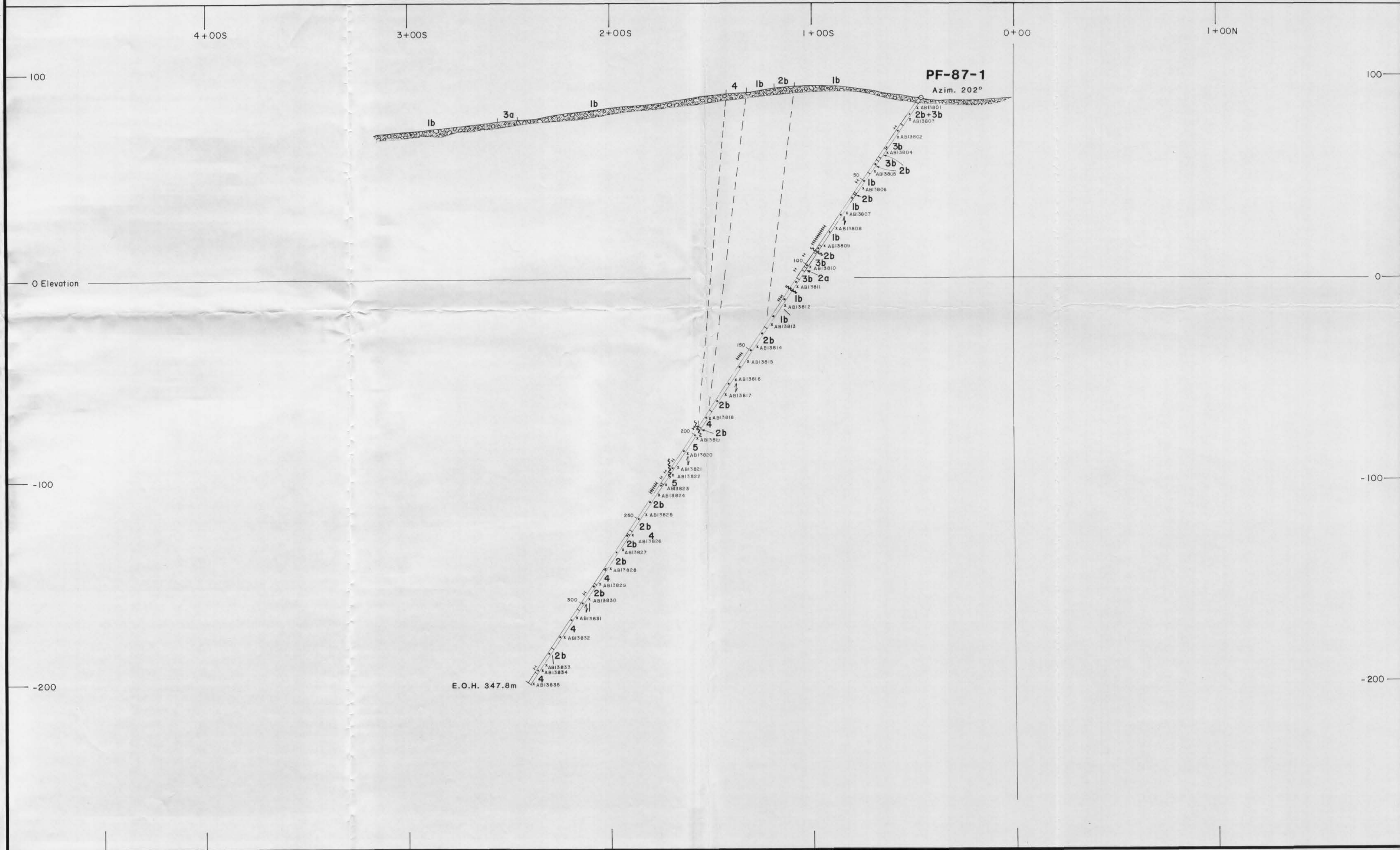
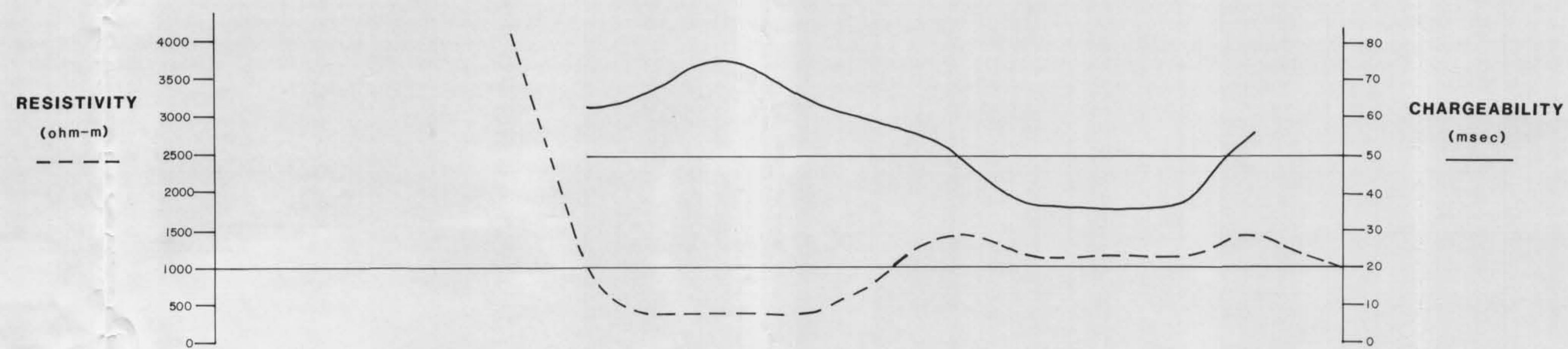


Figure C 40



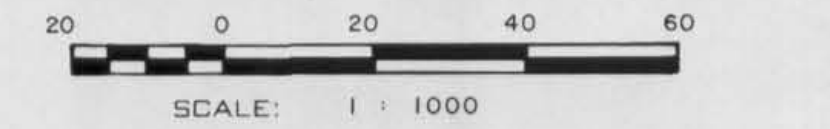
**LEGEND**

- 5** Mafic sill
  - 4** Quartz - feldspar porphyry dykes and sills
- MYRA FORMATION VOLCANICLASTICS and VOLCANICS**
- 3b** Felsic tuffs
  - 3a** Felsic flows
  - 2b** Andesitic tuffs
  - 2a** Andesitic flows
  - 1b** Mafic tuffs
  - 1a** Mafic flows

- SYMBOLS**
- Bedding
  - ↖ Foliation
  - ~ Fault
  - \*
 Whole rock sample
  - ##### Precious/Base metal samples

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,319**



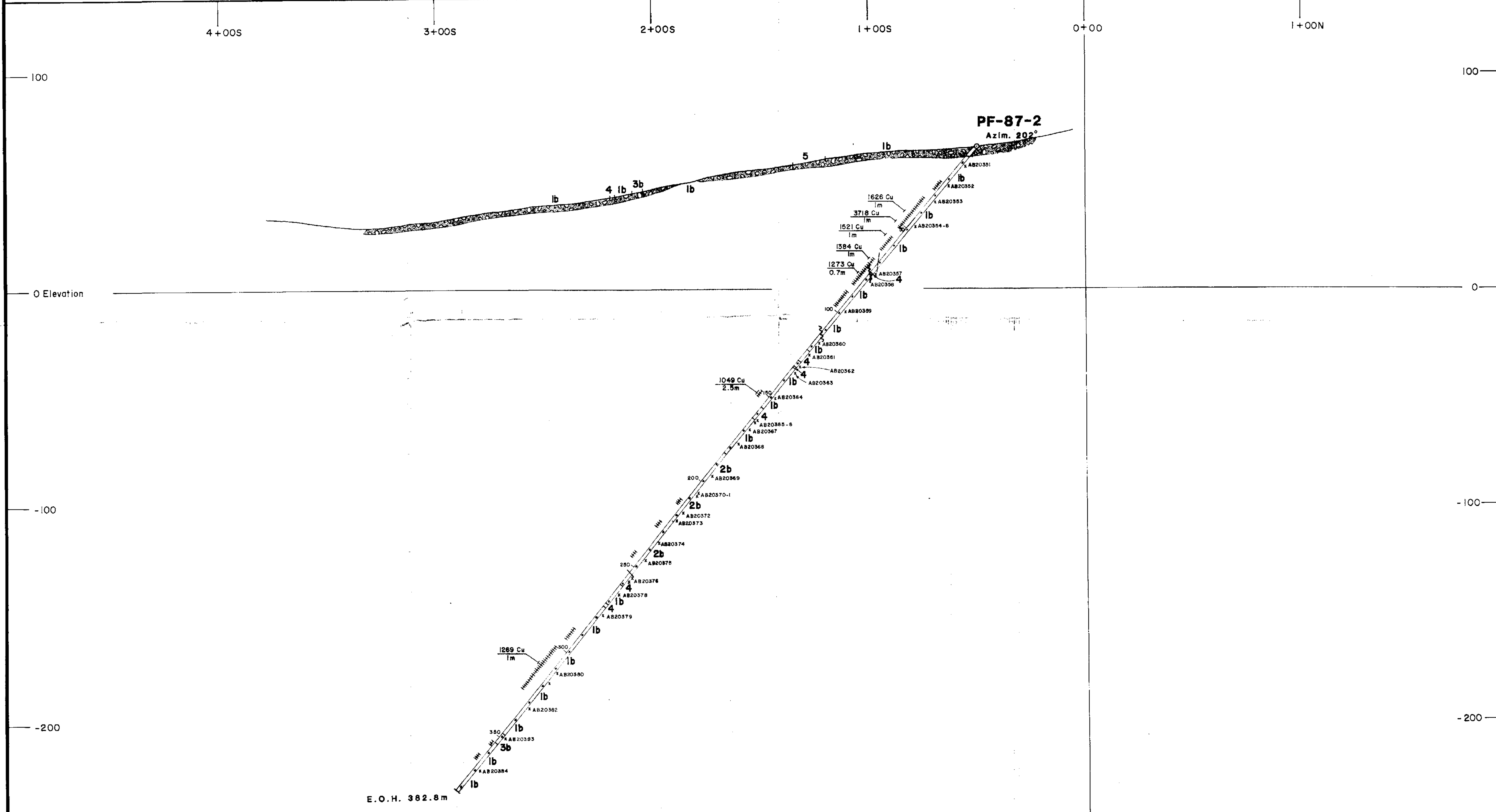
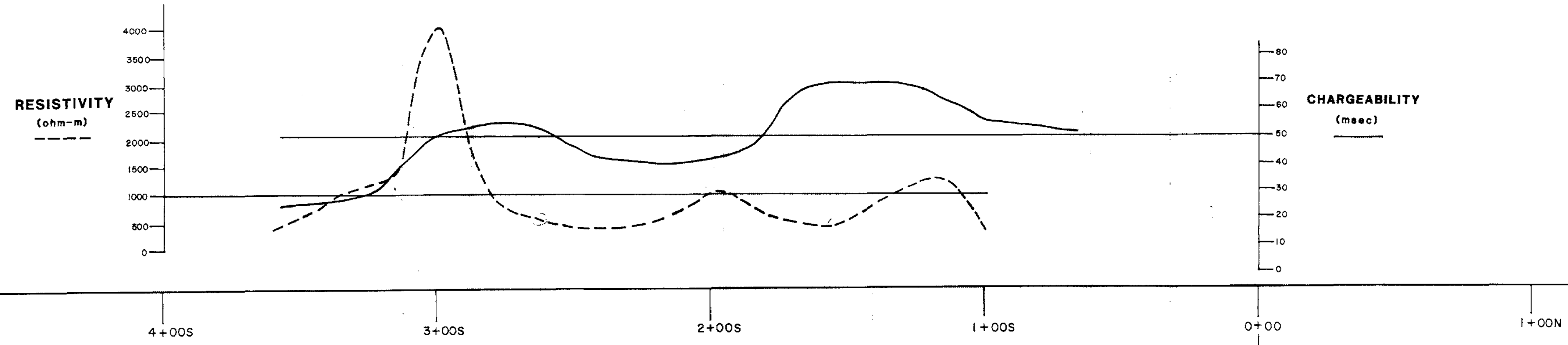
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Vancouver Island, British Columbia

**HOLE PF-87-1**  
Section 1+30W

Work by: DPM	DATE OF WORK: AUG., 1987	Project No. 117	FIG. NO.:
	DRAWN BY: ER		5
	DATE: AUGUST 18, 1987	N.T.S. NO.: 92B/13	





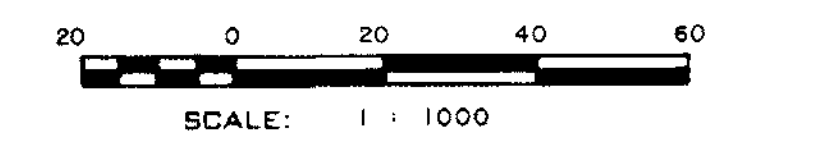
**LEGEND**

- 5** Mafic sill
- 4** Quartz - feldspar porphyry dykes and sills
- MYRA FORMATION VOLCANICLASTICS and VOLCANICS**
- 3b** Felsic tuffs
- 3a** Felsic flows
- 2b** Andesitic tuffs
- 2a** Andesitic flows
- 1b** Mafic tuffs
- 1a** Mafic flows

- SYMBOLS**
- Bedding
  - ~ Foliation
  - ||||| Fault
  - Whole rock sample
  - ||||| Precious/Base metal samples

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**16,319**

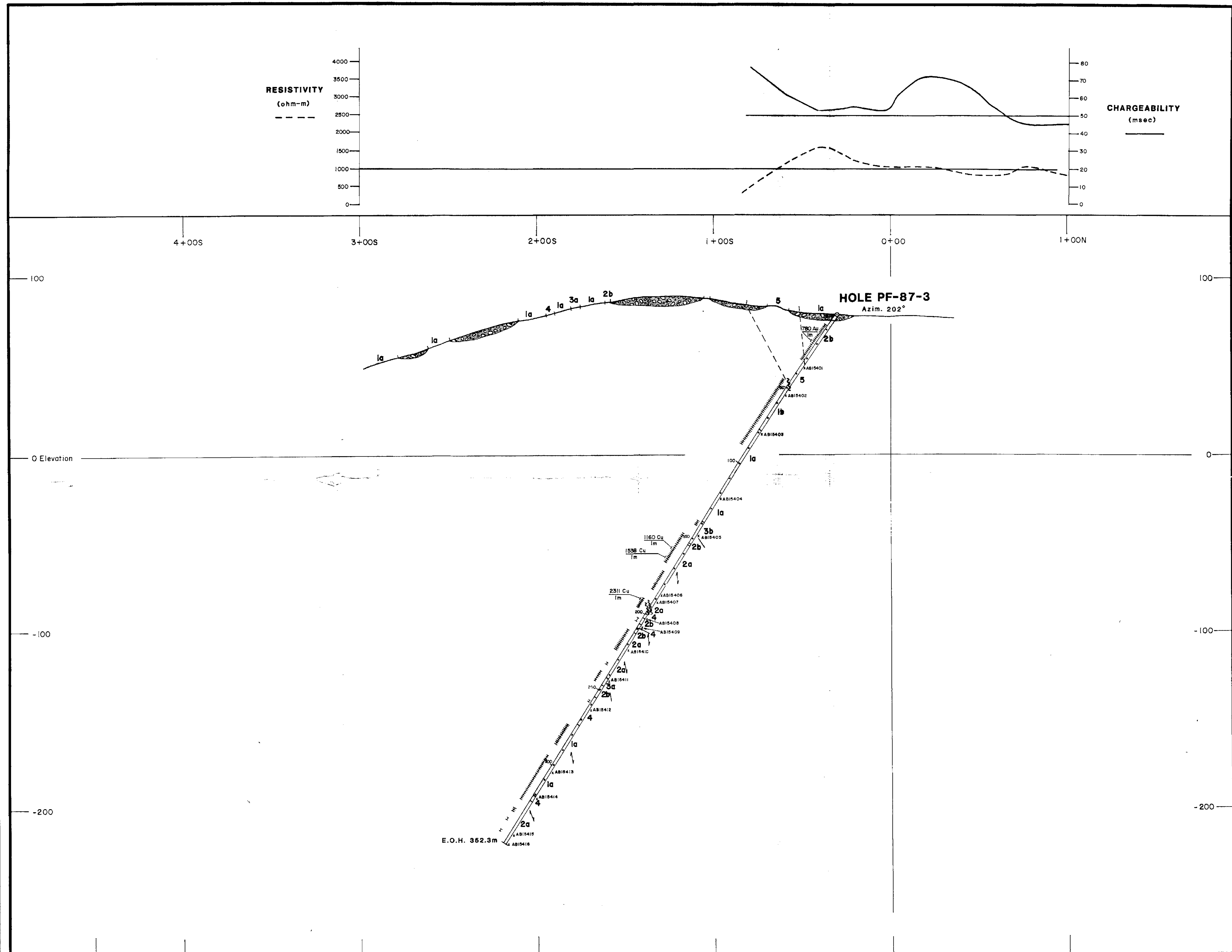


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**HOLE PF-87-2**  
Section 3+00W

Work by: JMP	DATE OF WORK: AUG., 1987	Project No. 117	FIG. NO.: 6
	DRAWN BY: ER		
	DATE: AUGUST 18, 1987	N.T.S. NO.: 92B/13	



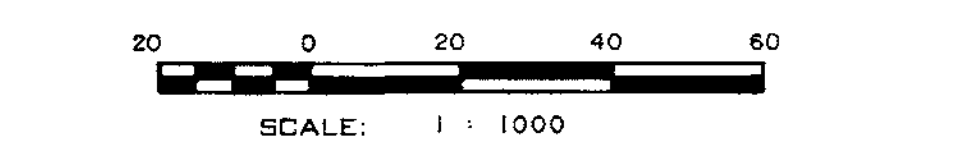
**LEGEND**

- 5** Mafic sill
- 4** Quartz - feldspar porphyry dykes and sills
- MYRA FORMATION VOLCANICLASTICS and VOLCANICS**
- 3b** Felsic tuffs
- 3a** Felsic flows
- 2b** Andesitic tuffs
- 2a** Andesitic flows
- 1b** Mafic tuffs
- 1a** Mafic flows

- SYMBOLS**
- Bedding
  - Foliation
  - Fault
  - Whole rock sample
  - Precious/Base metal samples

GEOLOGICAL BRANCH  
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**HOLE PF-87-3**  
Section 5+00W

Work by: DPM	DATE OF WORK: AUG., 1987	Project No: 117	FIG. NO.:
	DRAWN BY: ER		7
	DATE: AUGUST 18, 1987	N.T.S. NO.: 92B/13	