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1986 GEOLOGICAL REPORT
ON THE
PF OPTION

by
K. Booth, Geologist

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

48°50'³⁰N, 123°⁴³'W
NTS 92B/13E

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

March, 1987

Vancouver, B.C.

16,029

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SUMMARY

This report presents results of 1986 field work on the PF Option in southwestern British Columbia. The purpose of the project was twofold: firstly, to map the property at a scale of 1:5000; secondly, to explore favourable geology for volcanic-hosted polymetallic, massive sulphide deposits found in the Sicker Group rocks. The nearby 1 million ton, polymetallic Twin J and Lenora deposits, and Westmin's Buttle Lake deposit, totalling more than 20 million tons, are examples of deposits which occur in the Sicker Belt.

The project-area consists of 16 claims (53 units) located on southeast Vancouver Island, about 55 km north of Victoria, B.C.. The town of Crofton lies at the north end of the claim block. The claims are wholly owned by PF Exploration Ltd. of Duncan, B.C. and were optioned to Kidd Creek Mines Ltd. on December 1, 1985.

Fieldwork was carried out between May 12 and Aug 12, 1986 and consisted of 1:5,000 scale mapping, 8 km of linecutting, detailed geological mapping (1:2500), rock and soil sampling and an Induced Polarization survey.

The claims are underlain by mafic volcanoclastics with minor felsic flows and ash tuffs of the Myra Formation which is part of the Devonian to Permian Sicker Group. Myra Formation rocks have been intruded by Paleozoic intermediate to felsic intrusives known as the Saltspring Intrusion and Jurassic gabbro intrusions. Sedimentary rocks of the Cretaceous Nanaimo Group unconformably overlie these rocks.

Lithogeochemical results show that most of the rocks are high in Na and low in K. The Ishikawa and Spitz-Darling alteration indices do not show any areas that have undergone hydrothermal alteration.

In the area covered by the detailed grid, moderate to strong Cu soil anomalies are associated with a strong chargeability anomaly. The anomalous values are associated with hornblende ash flows, feldspar crystal ash flows and a narrow zone of quartz-porphyry. No surface mineralization has been observed in this vicinity.

Elsewhere on the property, minor copper mineralization occurs in massive, white quartz veins in the Saltspring Intrusion. Two pyritic zones occur on the property. The first, outcrops along the Osborne Bay Road immediately south of Crofton. Here pyrite is associated with chloritic patches and veins in the marginal phases of Saltspring Intrusion. The second pyrite zone is 3.3 km south of Crofton on the detailed grid. Mafic volcanics with massive, chloritic zones contain up to 7% pyrite in disseminations and stringers. Sample results from both zones show low base metal values.

CONCLUSIONS

1. The Nitinat Formation, as mapped by Muller (1980), is absent on the property. A mafic unit, mapped as a hornblende crystal ash flow belongs to the Myra Formation.
2. There is a distinct paucity of felsic volcanics. The Myra Formation on the property consists mainly of a subaqueous, distal facies succession composed of hornblende crystal ash flows, feldspar crystal ash flows, mafic ash and lapilli tuffs and minor intermediate to felsic, feldspar crystal tuff.
3. Quartz porphyry occurs as narrow units (usually less than 10 m) in the volcanics. Difficulties were encountered in determining the genesis of this unit. The rock is usually massive with rounded or lenticular quartz crystals. Contacts are usually sharp, however, there are occurrences where the quartz-porphyry grades into the mafic volcanics. The term quartz-porphyry is regarded as a field name only, without any genetic implication. Rock chemistry weakly differentiates the quartz-porphyry from the Saltspring Intrusion.
4. Lithogeochemistry indicates that the majority of the volcanics are mafic in composition with high sodium values. Of three alteration indices used to delineate hydrothermally altered rocks, two of the indices, Ishikawa and Spitz-Darling, revealed no areas of hydrothermal alteration. The third index, the Hughes "Igneous Spectrum", indicates that many of the rocks are altered. However, this alteration is interpreted to be spilitization (rock-sea water interaction).

5. Geological mapping on the detailed grid did not find a significant extension of the pyrite zone which outcrops along Osborne Bay road. No additional sulphide mineralization other than known pyrite occurrences was seen.

INTRODUCTION

Location

The PF claims (123°73'W, 48°50'N; NTS 92B/13E) are located on southeast Vancouver Island, approximately 2 km south of Crofton, B.C. (Figure 1). Crofton is situated on Osborne Bay on the old Island Highway, approximately 52 km north of Victoria.

Surface Ownership and Access

Surface and timber rights to much of the PF property are under the jurisdiction of the Municipality of North Cowichan. The rights to the remainder of the area are owned by farmers and private citizens. Permission for access to private land must be obtained from each of the local owners.

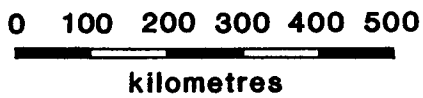
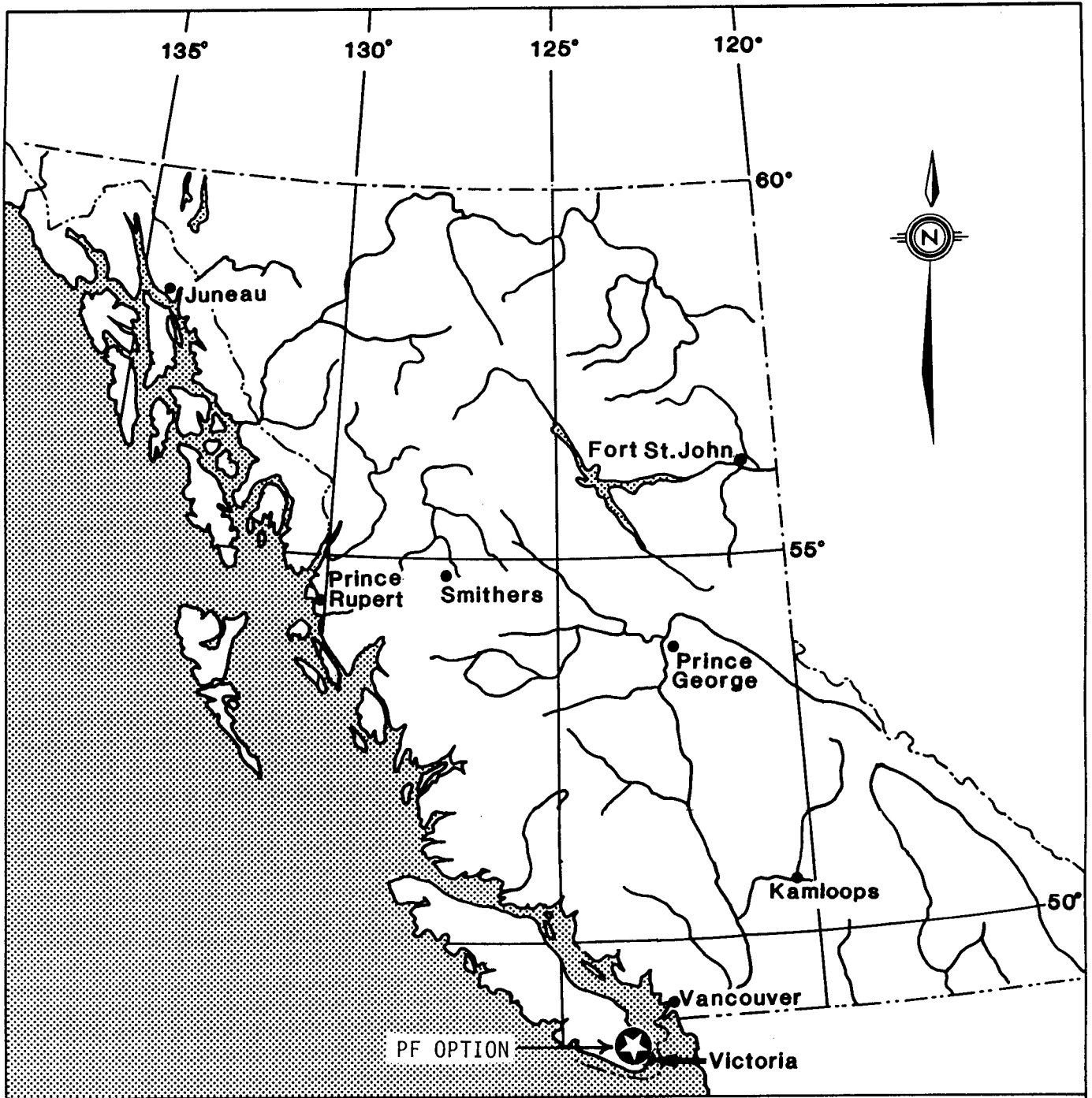
Access to the claims is very good all year. The Osborne Bay road, a paved all-weather road, provides access to gravel all-weather roads, which in turn give access to a network of logging roads and trails.

Terrain

Elevation ranges from sea level to 502 m at Maple Mountain, with moderate and undulatory topography. All of the property has been logged and is in various stages of regrowth with cedar, fir, alder and maple. The bush varies from dense second growth to clear cut areas. Traverses on foot are difficult over much of the area due to debris left on the ground as a result of the municipality's forest thinning programs. Agricultural land occupies the southwest corner of the claims.

Climate

A mild climate prevails with warm, dry summers and autumns, and short winters. Dry forest conditions, usually in August, occasionally elevate the forest fire



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

Figure 1

hazard to extreme, and may prompt a closure of municipal lands.

PROPERTY DEFINITION AND CLAIM STATUS

The PF property consists of 16 optioned claims totalling 53 units, situated in the Victoria Mining Division (see Table 1 and Figure 2). P.F. Exploration of Duncan, B.C. holds the title to all claims. Kidd Creek Mines Ltd. can earn a 100% interest in the property by fulfilling terms of an option agreement signed December 1, 1985.

PF and PF III claims are MGS claims, whereas Peggy I-IV, John Traverse, John Travers I-IV, and Beatrice I-IV are two-post claims. PF V was staked on June 18, 1986 to cover a small area of open ground between the PF claim and Canamax's CROF claim to the east.

PROPERTY HISTORY

Numerous exploration pits and trenches occur in the southwest corner of the PF claim, however, there is no record of these workings in the reports of the B.C. Dept. of Mines. According to local residents, the work was most likely done in the early 1900's.

The workings explored pyritiferous quartz veins.

Local residents also recalled some exploration efforts covering part of the property. The exploration was reportedly conducted by major companies within the last twenty years.

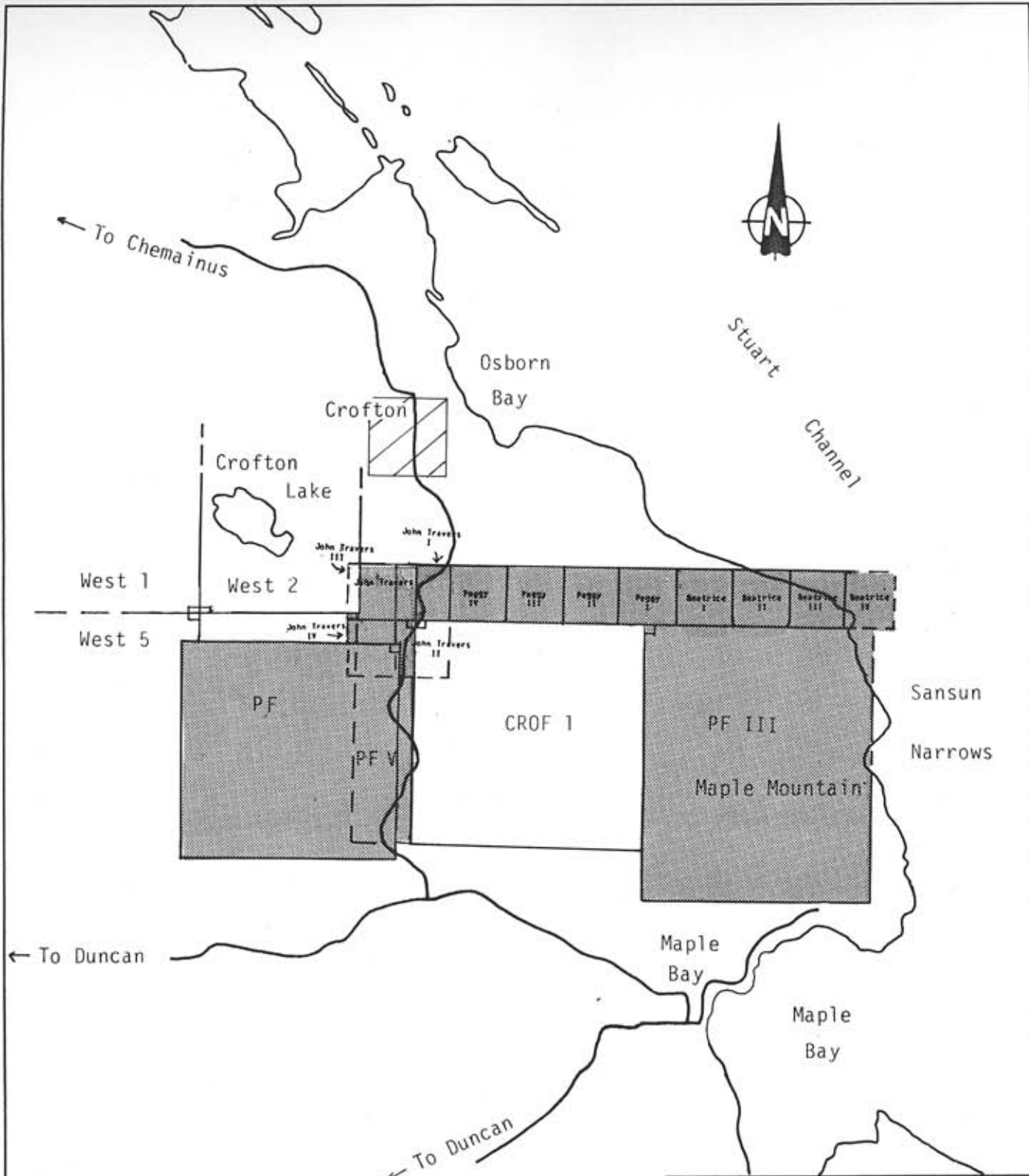
1986 WORK PROGRAM

The 1986 work program had two objectives. The first was to evaluate the geology of the claim group by regional mapping using traverses spaced at approximately 500 metres. The second objective was to delineate areas favourable for a volcanic-hosted polymetallic massive sulphide deposit.

<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 5/90
P.F. III	1505	20	March 30/85	April 29/90
P.F. V	1701	4	June 18/86	June 20/90
Peggy I	1497	1	March 30/85	April 29/90
Peggy II	1498	1	March 30/85	April 29/90
Peggy III	1499	1	March 30/85	April 29/90
Peggy IV	1500	1	March 30/85	April 29/90
John Travers	1493	1	March 31/85	April 30/88
John Travers I	1570	1	Sept 21/85	Oct 02/87
John Travers II	1571	1	Sept 21/85	Oct 02/87
John Travers III	1572	1	Sept 21/85	Oct 02/87
John Travers IV	1573	1	Sept 21/85	Oct 02/87
Beatrice I	1501	1	March 30/85	April 29/90
Beatrice II	1502	1	March 30/85	April 29/90
Beatrice III	1503	1	March 30/85	April 29/90
Beatrice IV	1504	1	March 30/85	April 29/90

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.



 PF 87 Group

 Major roads

0 1 2 KM
SCALE 1:50,000

FALCONBRIDGE LIMITED		
CLAIMS LOCATION MAP		
Victoria Mining Division		
NTS 92B/13E		
WORK BY	DRAWN BY	DATE: March 1987
Scale 1:50,000		
Figure: 2		

Field work consisted of:

- Geological mapping on the property at a scale of 1:5000, and at a scale of 1:2500 on a detailed grid (Powerline grid).
- 8 km of linecutting and grid chaining with lines 100 m apart. The linecutting was contracted to Bill Chase and Associates of White Rock, B.C.
- 7 km of ground geophysical surveys included induced polarization, V.L.F. and magnetometer. Delta Geoscience of Delta, B.C. conducted the surveys.
- 7 km of soil sampling (B_F horizon) on the Powerline Grid, 299 samples were collected at 20 m intervals and analysed for Cu, Pb, Zn and Ag.

A field-crew of two, based out of Chemainus, B.C., used a four-wheel drive truck for most field work and a Zodiac inflatable boat for some shoreline geology.

REGIONAL GEOLOGY

Vancouver Island consists of two geological domains, the Insular and Pacific Belts. The Insular Belt forms the main part of the island and consists of volcanic, sedimentary, metamorphic, and plutonic rocks of early Paleozoic to early Tertiary age. The southwestern rim of the island lies in the Pacific Belt. This belt is composed of a late Mesozoic sedimentary-volcanic melange and schist as well as Eocene ocean floor basalts (Figure 3). The Pacific and Insular Belts are separated by the San Juan and Leech River faults.

Insular Belt

According to Jones et al (1977), the Insular Belt is allocthonous. The belt consists of a number of groups, the oldest of which is the Sicker (Figure 3).

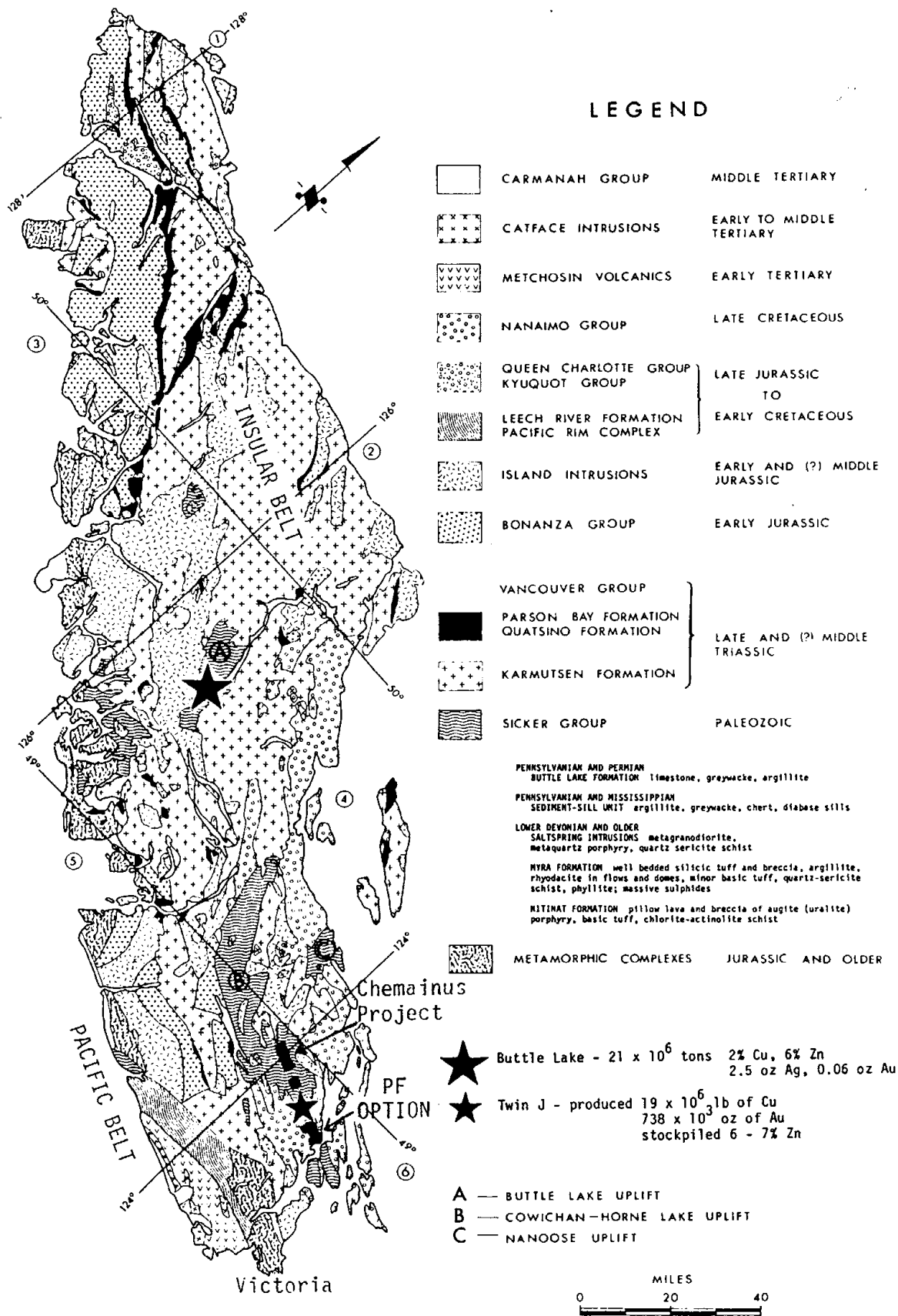


FIGURE 3
 REGIONAL GEOLOGY MAP
 (modified after Muller, 1980)

The Sicker Group represents an Early Paleozoic volcanic arc covered by late Paleozoic clastic and chemical sediments. The Vancouver Group directly overlies the Sicker Group and is the predominant assemblage on Vancouver Island. The group consists of oceanic basalts with overlying clastic and carbonate sediments, all late Triassic in age. The Bonanza Group represents an early Jurassic volcanic arc (Muller, 1981). It is mainly represented in the northwest and southwest of the island and consists of flows, pyroclastics and intercalations of clastic sediments. The Kyuquot, Queen Charlotte and Nanaimo Groups are late Jurassic and Cretaceous wedges of clastic sediments produced by the uplift and erosion of Early Mesozoic volcanic-plutonic complexes. Consequently, these three groups unconformably overlie the Bonanza, Vancouver and Sicker Groups.

Pacific Belt

The Pacific Belt is represented by a narrow strip on the southwest coast of the island and consists of two allocthonous zones. An inner zone which lies inland, consists of early Tertiary tholeiites overlain by clastic sediments. The outer zone (Olympic Terrane) consists of Eocene ocean floor basalt and overlying younger sediments. The Pacific belt is not found in stratigraphic contact with pre-Tertiary Insular Belt rocks (Muller, 1981) and was tectonically emplaced in late Cretaceous and in mid-Eocene time.

Structure and Metamorphism, Vancouver Island

The Insular Belt is dominated by steep faults. Sediments of the Sicker Group and of the Pacific Belt are isoclinally folded. Metamorphic grade commonly ranges from low grade to epidote-actinolite-chlorite-albite grade with higher grade hornblende-biotite plagioclase mineral

assemblages present near intrusions. Epidote-rich meta-volcanics are common near intrusions and display epidote-rich knots which are interpreted to be the result of selective epidote alteration of individual clasts.

Sicker Group

On Vancouver Island, Sicker Group rocks, which comprise the Sicker Belt, are exposed in three major structural uplifts as shown by Muller (1980) (Figure 3). This group consists of three formations and one unit listed in Figures 3 and 4. The oldest rocks belong to the Nitinat Formation (early Devonian) and consist of massive mafic flows, breccias, and minor pillowed lavas and tuffs. Conformably overlying the Nitinat Formation is the Myra Formation (middle Devonian) which consists of a bimodal pyroclastic sequence with well-bedded andesitic to rhyolitic tuff and breccia with minor interbeds of argillite (Muller, 1981). The Sediment-Sill unit (not a formational name) is believed to be Pennsylvanian in age and consists of thinly bedded to massive argillite, siltstone and chert with abundant sills of diabase. The Buttle Lake Formation (Permian) forms the upper part of the Sicker Group. This formation consists of calcarenitic and crinoidal limestone with minor interbeds of calcareous siltstone and chert.

Significant Deposits within Sicker Rocks

The Myra Formation is an important host of volcanogenic massive sulphide deposits and, to a lesser degree, precious metal deposits.

Westmin's 20 million ton HW deposit at Buttle Lake and the 1 million ton Twin J deposit situated west of Chemainus, B.C., are both polymetallic massive sulphide deposits occurring in the Myra Formation. The two deposits are now considered to be Kuroko-type exhalites (Muller, 1980).

Important associated rocks are breccias, quartz porphyries and fine-grained flows, all of which are rhyodacitic to rhyolitic in composition. Coarse-grained breccias are inferred to be close to the former volcanic vent from which the sulphides emanated.

The Thistle Mine south of Port Alberni was the largest precious metal producer in the Myra Formation. This mine produced 6900 tons of ore grading 0.40 oz/T Au, 0.31 oz/T Ag, and 4.92% Cu. Precious metals are hosted in quartz and/or quartz carbonate veins.

PROPERTY GEOLOGY

Introduction

The PF property is situated at the south end of the Cowichan-Horne Lake Uplift. The area is underlain by the Myra Formation of the Sicker Group, which is intruded by the Saltspring intrusion and gabbro. These rocks are unconformably overlain by the Cretaceous Nanaimo Group.

Geological mapping was conducted over the project area at a scale of 1:5000, along traverses 500 metres apart. Orthophotos were used for ground control and as a base map.

A grid, referred to as the Powerline grid (8 km of crosslines with line separation of 100 metres), was mapped at a scale of 1:2500. The Powerline grid, located in the southwest corner of the property, was used to evaluate a zone of altered-looking, pyritiferous mafic volcanics.

Lithology and Stratigraphy

Property geology is shown on Figures 4a and 4b at a scale of 1:5000. The Powerline grid geology is shown at a scale of 1:2500 on Figure 5.

Five major map units were recognized on the property. From oldest to youngest they are: Myra Formation (map unit 1), Saltspring intrusion (map unit 2), Gabbro and Mafic Dykes and Sills (map units 3 and 4), and the Comox Formation (map unit 5) of the Nanaimo Group.

Volcanic rocks on the property are predominantly mafic in composition and consist of hornblende crystal-ash flows, feldspar crystal-ash flows, ash tuffs and feldspar crystal-ash flows containing quartz crystalline fragments. This latter unit may be a pyroclastic. Also observed were ash tuffs, crystal tuffs and lapilli tuffs which are intermediate to felsic in composition. The intermediate to felsic crystal tuff contains quartz eyes (+ plagioclase crystals), is massive, and in places, has an undulatory contact. In places, this unit may be a sill/dyke. The mafic, hornblende ash flow originally thought to be a lava flow of the Nitinat Formation (Sicker Group) is now interpreted to be part of the Myra Formation. This rock is predominant in the Maple Bay area but occurs to a lesser degree in the rest of the map area, usually interlayered with feldspar crystalline ash flows.

The Saltspring Intrusion occupies most of the northern half of the PF III claim. The rock (map unit 2) is intermediate to felsic and varies from quartz porphyritic to massive, equigranular, medium to coarse grained. In places, the quartz porphyritic phase appears to have intruded into the more massive phase.

The post-Sicker Group gabbro (map unit 3) occurs along the northern boundary of the PF III claim

as well as in the central and western portion of the PF claim. Gabbro phases include feldspar phyric to feldspar glomerophyric and hornblende-plagioclase pegmatite. The massive habit and widely spaced joint pattern, combine to make this unit resistant resulting in topographic highs.

Mafic sills and/or dykes (map unit 4) occur in the Saltspring Intrusion and the volcanics. The rock is typically fine-grained, massive, and may or may not contain magnetite. High TiO_2 values suggest the presence of ilmenite.

Structure



Lack of sedimentary rocks and poorly preserved to non-existent bedding features within the pyroclastics resulted in schistosity being the dominant structural element observed.

The schistosity is moderately developed. A stereo plot of schistosity is given in Figure 6. It shows consistent strike and a steep dip varying to the north and south. This is interpreted to be a result of isoclinal folding which has also been observed on Saltspring Island (Mallalieu, 1984) and on the Chemainus Ezzo-Kidd Creek Joint Venture property (Enns, 1986), 20 km to the northwest.

Mafic dykes and quartz porphyry sills parallel schistosity. No cross-cutting relationships were observed.

Few faults were observed during field mapping. However, Map 1553A (Geol Survey of Canada) by Muller (1983), shows a fault striking 115° Az from Burgoyne Bay to Maple Bay and a second fault striking south from Osborne Bay.

ROCK UNIT:
LOCATION:
DATE:

MEASURED BY:
EQUAL AREA 
EQUAL ANGLE 

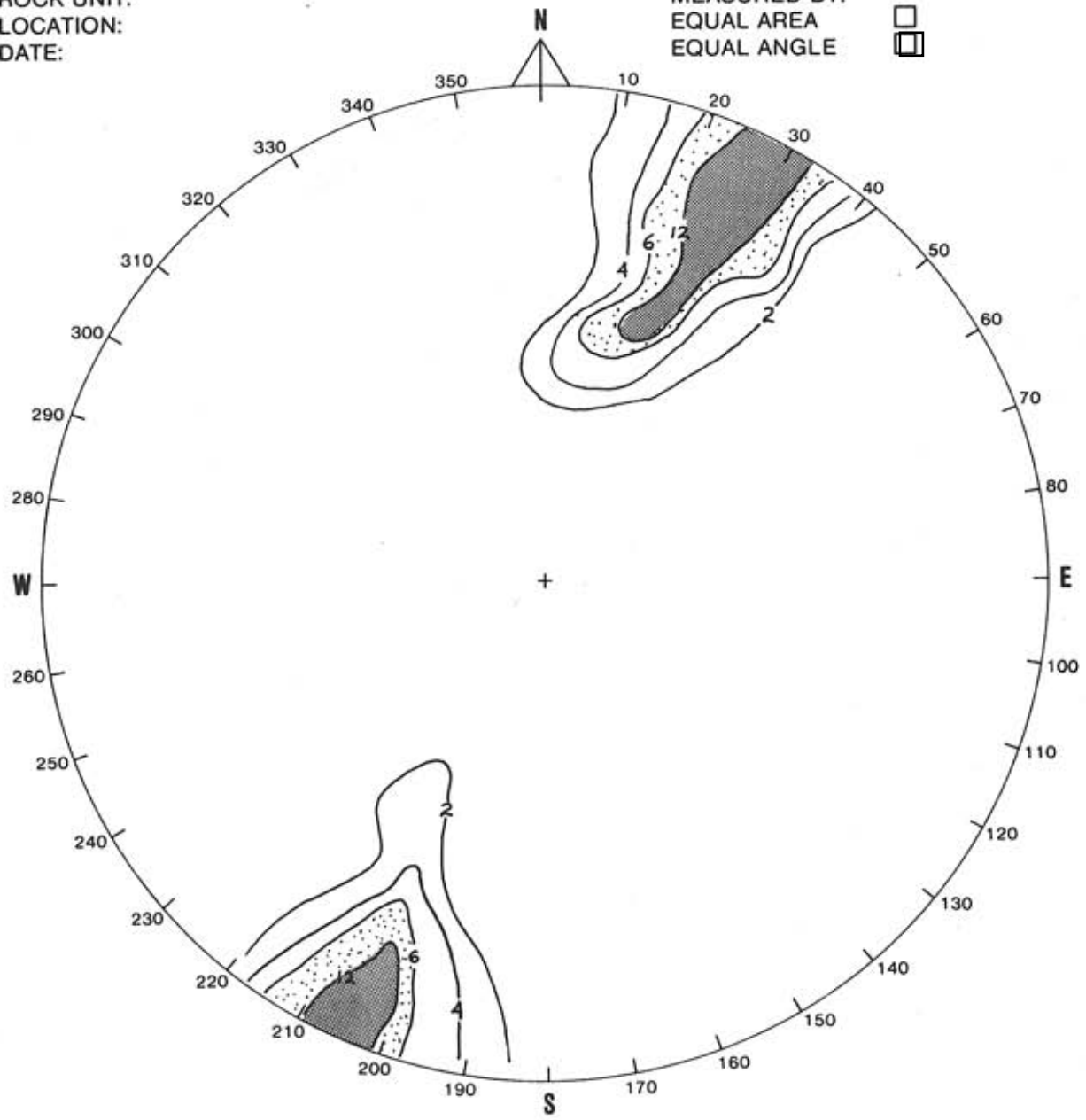


Figure 6. Contoured Stereo Plot of Schistosity

Metamorphism

The Myra Formation has been affected by regional low-grade greenschist metamorphism. Contact metamorphism adjacent to the Saltspring Intrusion or to the gabbro is manifested as bleaching.

Veining, Mineralization

Localized, massive, milky white quartz veins occur sporadically on the claims and appear to have an affinity for felsic intrusives. Minor, massive, barren, white quartz veins also occur in the volcanics.

A massive, milky white quartz vein occurring on the northwest flank of Maple Mountain contains one percent disseminated chalcopyrite. Analyses of a grab sample of quartz vein returned 0.35% Cu. On the Powerline grid, a large, massive, milky white quartz vein occurs in quartz porphyry. The vein roughly parallels the weak schistosity and is 60 cm wide although it pinches and swells. Minor disseminated pyrite was also observed.

Two pyritic zones occur along the Osborne Bay Road cuts. The first is immediately south of Crofton and is within the Ocean View subdivision. The zone is rusty and contains three to five percent pyrite in disseminations and stringers near an intrusive contact. Narrow zones of chlorite were also observed. The host rock is an intermediate Saltspring Intrusion which contains xenoliths of volcanic rock. Geochemical analyses of samples showed no base metals.

The second pyritic zone occurs at the intersection of Osborne Bay Road and the powerline, approximately 3.3 km south of Crofton. The host rock is a mafic volcanic with chloritic zones. The chloritic zones contain pyrite in disseminations and stringers up to seven percent. Analyses returned 0.09% Cu, nil Zn and Pb.

Another zone, 150 metres to the west, returned 0.07% Cu, nil Zn and Pb.

Minor disseminated pyrite occurs in the majority of the volcanics, however, pyrite is noticeably absent in the hornblende crystal-ash flow.

SOIL GEOCHEMISTRY

A soil survey was conducted on the Powerline grid to delineate anomalous base metal values possibly associated with the pyritic zone on Osborne Bay Road.

Sampling was carried out along cut grid lines. Samples were taken at 20 m intervals along most lines, except in an area of cultivated land. A total of 299 samples was collected.

Soil horizon development is good over much of the grid. In the south it is interrupted by large exposures of bedrock and talus. The horizon sampled was the B_f because it is generally less variable in Cu and Pb contents than the humic A horizon. Depth of sampling averaged 20 cm.

Samples were collected in Kraft paper envelopes, partially dried in the field and shipped to Bondar-Clegg & Company Ltd., Vancouver, B.C.. To ensure analytical control, internal standard sample SB-B (statistics found in Table 3) was submitted with every 45 samples.

The samples were dried at 125°C, sieved to -80 mesh and analysed. Analyses were done as follows: a 0.500 g sample was digested with 2.5 ml of an HNO₃-HCL (1.5:1) solution at 90° and then diluted to 10 ml with water. The solution was then analysed by Atomic Absorption Spectrometry (AA) for Cu, Pb, Zn, Ag.

Soil sample locations for the Powerline grid are shown on Figure 7. The geochemical results for Cu and Zn are shown on Figures 8 and 9 respectively. Lead and silver values were uniformly low and therefore did not warrant plotting. All soil results are listed in Appendix B.

Determination of threshold values for Cu and Zn are found in Appendix C, along with cumulative frequency curves and histograms. The following threshold levels were used:

	Cu (ppm)	Zn (ppm)
Strong	750	360
Weak	500	-
Background	44	72

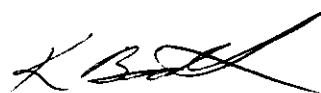
The most significant anomaly is centred at 2+00S on L6+00W. A value of 1740 ppm Cu was obtained with surrounding values ranging from 485 to 725 ppm Cu. No anomalous Zn values were obtained from this area. The geology associated with this anomaly consists of feldspar crystal ash flows interbedded with a hornblende crystal ash flow. Quartz porphyry occurs as a 1.5 metre wide unit.

Two weak Cu anomalies are also indicated. The first anomaly occurs on L3+000W, 1+00S and appears to be associated with an unmineralized mafic block and ash flow. A second weak anomaly occurs at 1+40S on L0+00W. This anomaly is also isolated and there is no accompanying favourable geology. Neither of these anomalies is complemented by associated anomalous Zn values.

An isolated, strong Cu anomaly (770 ppm) occurs at 2+60S on L9+00W along a talus slope consisting of feldspar crystal ash flow.

At 3+00N on L11+00W, there is an isolated Zn anomaly (520 ppm). It occurs downslope from a large outcrop consisting of feldspar crystal ash flow with possible fragments.

Both strong Cu anomalies should be checked for cultural effects (i.e. possible old garbage dumps) or for mineralized quartz veins.



K. Booth

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STATEMENT OF EXPENDITURES

Claims: PF 87 GROUP: PF, PF III, PF V, PEGGY I
to IV, JOHN TRAVERS, BEATRICE I to IV

Mining Division: Victoria

NTS: 92B/13

Period of Work: May 1 to August 15, 1986

Costs:

1. Personnel

K. Booth, geologist

May 7 to Aug 11/86 60 days @ \$104 6,240.00

P. Whiting, geological assistant

May 20 to Aug 11/86 39 days @ \$ 91 3,549.00

D. Money, geological assistant

Jun 3,8, Jul 10/86 3 days @ \$ 85 255.00

B. Yorston, geochemical sampler

Aug 1, Aug 2/86 2 days @ \$ 90 180.00

J. Leigh, geochemical sampler

Aug 1, Aug 2/86 2 days @ \$ 65 130.00

S. Enns, project geologist

May 1 to Aug 11/86 6 days @ \$205 1,230.00

11,584.00 11,584.00

2. Vehicle Costs

GMC 4x4 pickup

60 days @ \$20.33/day 1,219.80

3. Room and Board

111 man-days at \$34.25 3,801.75

4. Linecutting for geology & geochemical control

Bill Chase & Associates Ltd.
White Rock, B.C.

8 km @ \$250/km 2,000.00

5. Analytical Costs

a. Soils for Cu,Pb,Zn,Ag

Bondar Clegg & Company Ltd.
Vancouver, B.C.

349 samples @ \$5.05/sample 1,762.45

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

X-Ray Assay Laboratories Ltd.
Don Mills, Ontario

27 samples @ \$42.00/sample 1,134.00
136 samples @ \$18.25/sample 2,482.00

c. Base & Precious Metals

X-Ray Assay Laboratories
Cu,Pb,Zn

33 samples @ \$ 4.10/sample 135.30

X-Ray Assay Laboratories
Cu,Pb,Zn,Ag,Au

1 sample @ \$11.50/sample 11.50

Acme Analytical Labs
Vancouver, B.C.

Cu,Pb,Zn

6 samples @ \$ 4.00/sample 24.00

5,549.25 5,549.25

6. Report Preparation

750.00

TOTAL \$24,904.80

\$18,100.00 to be applied as follows:

- 1 year to John Travers
- 2 years to PF
- 3 years to PF III
- 3 years to Peggy I to IV
- 3 years to Beatrice I to IV
- 4 years to PF V

STATEMENT OF QUALIFICATIONS

I, Ken D. Booth, an employee of Falconbridge Limited, with offices at 701 - 1281 West Georgia Street, Vancouver, B.C., do hereby declare that:

1. I am a graduate of Carleton University, Ottawa Ontario (1983) with an Honours B.Sc. degree in Geology.
2. I have practised my profession as an exploration geologist continuously since graduation, throughout Canada.
3. I supervised the work described in this report.

Dated at Vancouver, B.C., this *12* th day of May, 1987.



Ken D. Booth

APPENDIX A

LITHOGEOCHEMISTRY

Discussion and Analytical Data

APPENDIX A

INTRODUCTION

Lithogeochemical sampling was carried out during the course of geological mapping. A total of 133 samples was submitted for whole rock analysis for major oxides and of these, 27 were analysed for rare earth elements. Sampling had two aims; firstly, it added to the company's province-wide whole rock data base and secondly, it was used to recognize alteration and rock suites. The analyses are listed at the end of Appendix A.

Whole rock geochemical analysis was performed by X-Ray Assay Laboratories Limited of Don Mills, Ontario. Major and minor oxides were analysed by X-ray fluorescence spectrometry (XRF). Trace and rare earth elements (REE) were analysed by neutron activation (NAA) and direct current plasma (DCP) techniques. Data obtained from the analyses was entered into the Kidd Creek Mines Ltd. PDP-11 Digital computer system, which generated the accompanying figures from in-house computer programs.

All sample locations have been plotted on the 1:5000 geological maps, Figures 4a, 4b.

PETROGENESIS

The samples collected during the program were used to construct the plots shown in this appendix.

Alkali-silica variation diagrams (Figures A 1 to A 5) were used to distinguish between alkaline and subalkaline volcanic suites. Rocks on the PF property are, for the most part, subalkaline. However, the mafic volcanics plot near the boundary. Alkali enrichment has had an effect on the composition of the mafics, however, it has not significantly changed the composition of the felsic volcanics. The SiO_2 vs FeO/MgO diagram (Figures

A 6 to A 9) proposed by Miyashiro (1974) defines two suites of volcanic rocks. The mafic volcanic rocks from the property straddle the boundary between calc-alkaline and tholeiitic differentiation trends. Felsic volcanics clearly fall in the calc-alkaline field. AFM diagrams (Figures A 10 to A 13) also define two suites of volcanic rocks. Felsic volcanics fall in the calc-alkaline field and show a certain amount of alkali enrichment. Mafic volcanics lie close to the boundary separating the two fields but are clearly tholeiitic in composition.

An additional plot taken from Pearce and Cann, (1973) plots $Ti \times 100$ (TP) vs. Y vs. $Zr/10$. This plot was not used to separate the rocks on the basis of composition, rather it was used to show major trends. Figures A 14 to A 21 are plots for mafic volcanics. The genesis may have been varied but they appear to have been derived from the same parental magma. Figure A 20 plots Saltspring Intrusion and quartz porphyry. This plot shows that the two rocks occupy the central portion of the diagram but clearly, they cluster in two distinct fields. The distinction may be a result of two different sources. Felsic volcanic samples (Figure A 21), are widely scattered and plot across the fields occupied by both Saltspring Intrusion and quartz porphyry samples.

ALTERATION CRITERIA FOR VOLCANIC ROCKS

To test the possibility that samples from the property had undergone alkali metasomatism, analyses were plotted on Hughes' diagrams (Hughes, 1972) and two numerical alteration indices (known as the Ishikawa Index and Spits-Darling Index) were calculated.

The Hughes diagram, which plots $(\text{Na}_2\text{O}+\text{K}_2\text{O})$ against $(100\times\text{K}_2\text{O})/(\text{K}_2\text{O}+\text{Na}_2\text{O})$, contains a broad field termed the "igneous spectrum" in which most unaltered or very slightly altered Cenozoic volcanic rocks plot. Various authors have modified the field to incorporate volcanic rocks from ensimatic magmatic arcs (Stauffer et al, 1975; Kemp, 1982). 'Hughes' alkali "igneous spectrum" diagrams (Figures A 22 to A 28) were used to discriminate samples which fall within the modified "igneous spectrum" from those which fall outside.

Hydrothermal alteration of metavolcanic units associated with volcanic massive sulphide deposits is most typically characterized by enrichment of MgO, FeO, and occasionally K_2O , and depletion of CaO and Na_2O . Alteration indices can serve two purposes: 1) to identify unaltered or only slightly altered volcanic rocks, and 2) to delimit fossil geothermal circulation systems and to target zones indicative of intense metasomatism which are hopefully closely related to mineralization (Kemp, 1982).

Ishikawa et al (1976) recognized alkali and alkaline earth metasomatism associated with Kuroko deposits. They suggested that extensive anomalies would be best defined by an alteration index $(\text{MgO}+\text{K}_2\text{O})/(\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}) \times 100$. Izawa et al (1978) suggested that an Ishikawa Index value of 50 would represent the upper threshold for unaltered felsic rock, however, this is a relatively qualitative value.

Kemp (1982) calculated Ishikawa alteration indices for numerous published analyses from modern and

ancient magmatic arc terranes. The Ishikawa Index values ranged from less than 20 to the upper 50's. The only type of unaltered rock that had an index value consistently greater than 60 was picritic basalt. This reflects the rock's high MgO and low alkali content.

The following numerical values are proposed for recognition of hydrothermal alteration based on the Ishikawa alteration index.

Alteration Index	Classification
<50	Background
≥50 and <60	Weakly anomalous
≥60 and <70	Moderately anomalous
≥70	Strongly anomalous

Spitz et al (1978), in a detailed petrochemical study around the Louvem copper deposit in the Abitibi greenstone belt, recommended the use of the Al_2O_3/Na_2O ratio to delimit hydrothermally altered volcanic rocks associated with mineralization. They found that mafic and intermediate volcanics displayed ratios ranging from less than 3.5 up to 4.9 for felsic volcanic rocks. They considered any rock with a ratio greater than 10.0 to be altered.

Kemp (1982) calculated the Al_2O_3/Na_2O ratios for published analyses from magmatic arc terranes. He determined that the ratios suggested by Spitz et al (1978) were not directly correlative with the broader data base. He found that the ratio varied from 1.5 to about 6.5 for unaltered mafic to felsic volcanic rocks. The proposed value of 10.0 (Spitz et al, 1978) remained valid as a threshold of alteration in these cases.

DISCUSSION

The calculated Spitz and Darling Index, and the Ishikawa Alteration Index, and the Hughes' diagram plots, all provide a measure of the degree of major element metasomatism experienced by volcanic rocks.

The Hughes' diagram most effectively detects alkali metasomatism. The Ishikawa Index is the second most effective index as it reflects variations in both the alkali and alkali earth elements. The Spitz and Darling Index is effective in recognizing Na_2O depletion relative to Al_2O_3 but is less versatile than the Ishikawa Index as it does not account for alkali earth enrichments.

The Spitz-Darling and Ishikawa indices show there are no broad zones of hydrothermal alkali metasomatism. On the Powerline grid, sample AB 15784 has an Ishikawa Index of 60.34, indicating alteration. Two reasons for the high number could be the high MgO content (13.70%) or the low Na content (0.17). Care must be taken when interpreting the Ishikawa Index for this sample. The Spitz-Darling Index shows the rock to be highly altered, however, the Hughes' "igneous spectrum" shows only slight alteration. The rock is a hornblende crystal ash flow and is coincident with an anomalous copper soil anomaly. On the Powerline grid there is also a feldspar crystal ash flow (slightly chloritic, Sample AB 15788), which is moderately anomalous based on the Ishikawa Index (60.12) but the Spitz-Darling Index and the Hughes' "igneous spectrum" do not indicate alteration.

Figures A 22 to A 28 are plots of the Hughes' "igneous spectrum". According to Hughes (1972), rocks lying outside the "igneous spectrum" have undergone alkali

metasomatism. Figure A 22 shows a dashed oval area which according to Stauffer et al (1975), classifies rocks in this area as spilites. Spilites are characteristically mafic contain 40 to 50% SiO_2 , high Na_2O and low, or notably deficient, K_2O . Intermediate and felsic lavas associated with spilites are termed keratophyres. Spilites typically occur in submarine environments.

Almost all the samples, which lie outside the "igenous spectrum" envelope, plot within the spilite field. These samples show little or no evidence of hydrothermal alteration from either Spritz Darling or Ishikawa alteration indices. This indicates that the observed alteration is due to seawater-rock interaction (spilitization). Some of the felsic volcanics plot outside the spilite area and are probably representative of keratophyres.

Most of the altered samples as determined using the "igenous spectrum", plot within the spilite field.

Figures A 1 to A 5

Silica variation diagrams;
Separation of alkaline and subalkaline
suites (after Macdonald, 1968).

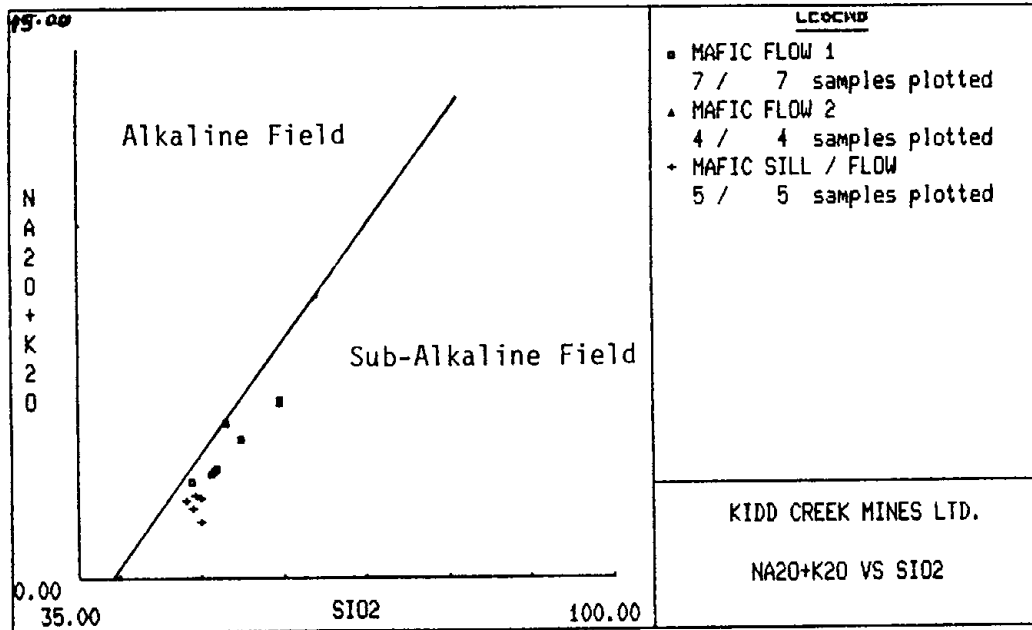


Figure A 1

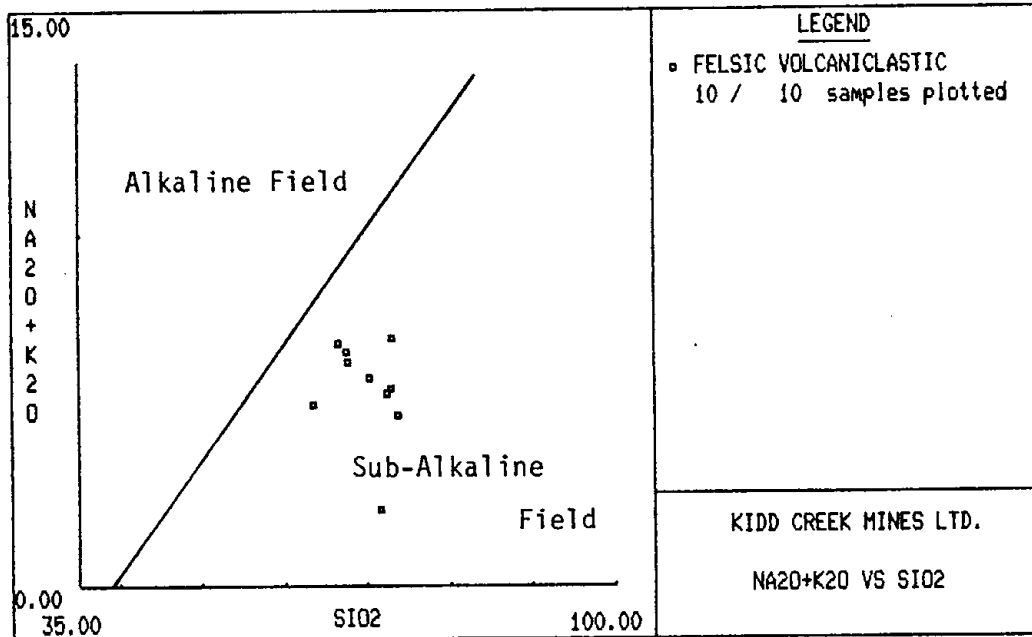


Figure A 2

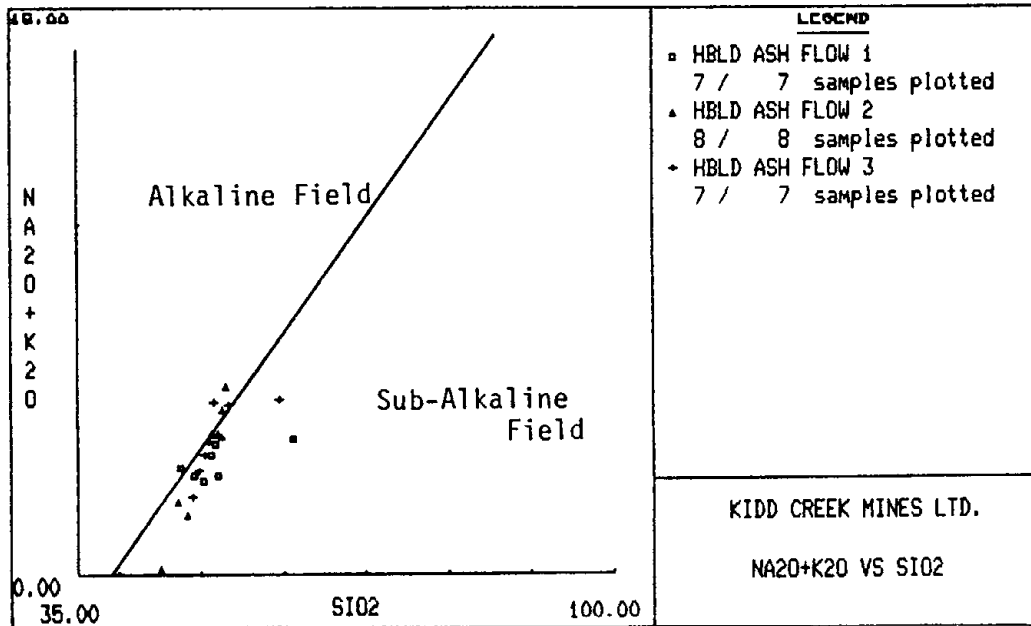


Figure A 3

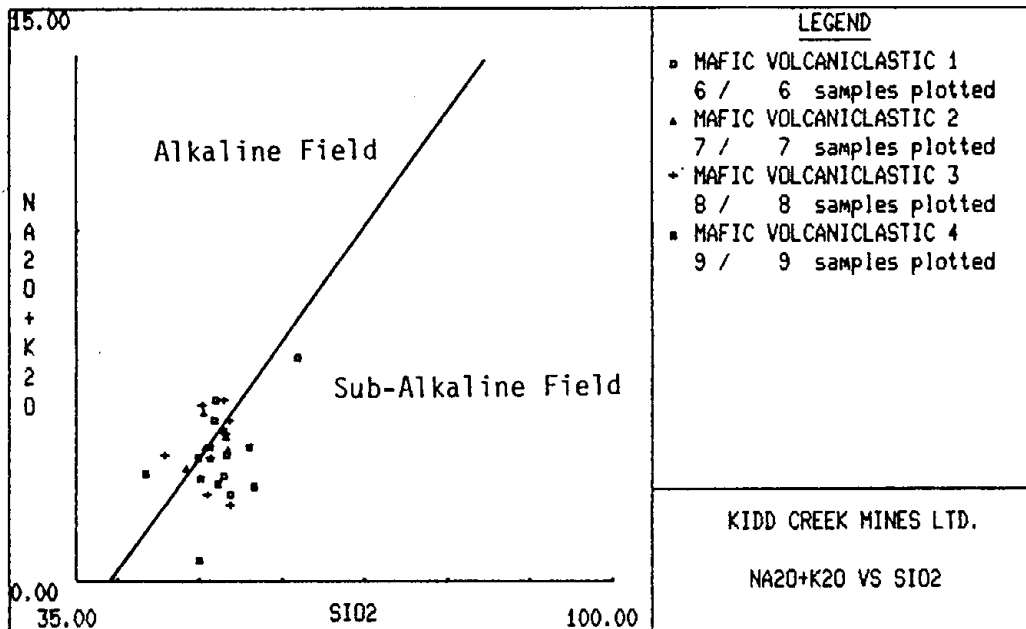


Figure A 4

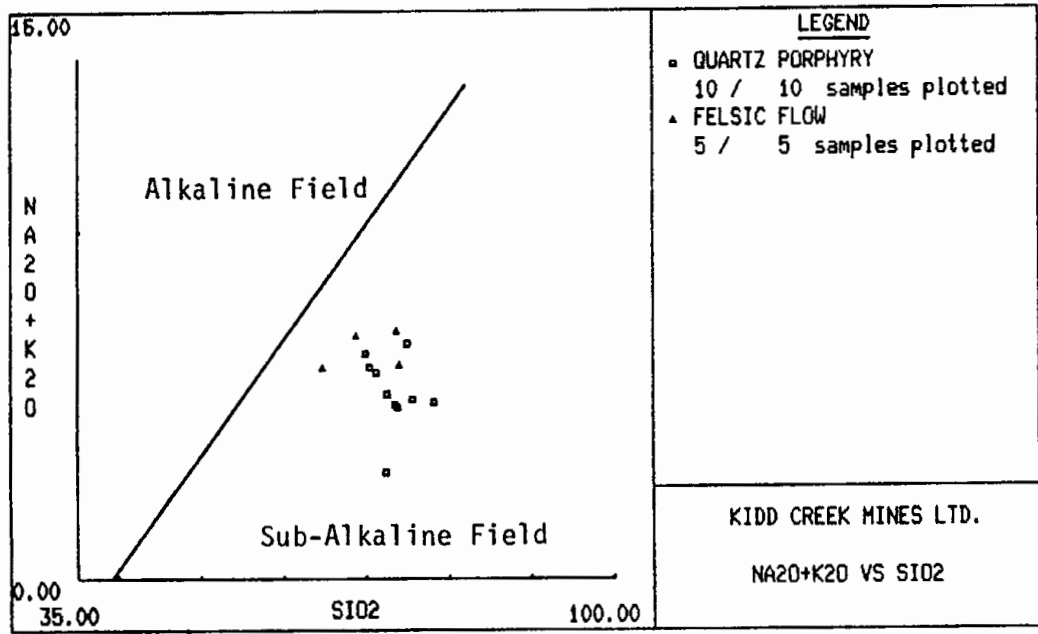


Figure A 5

Figures A 6 to A 9

Silica vs total iron (as FeO^{*})/magnesium plot
and separation of subalkaline lava suites
(after Miyashiro, 1974).

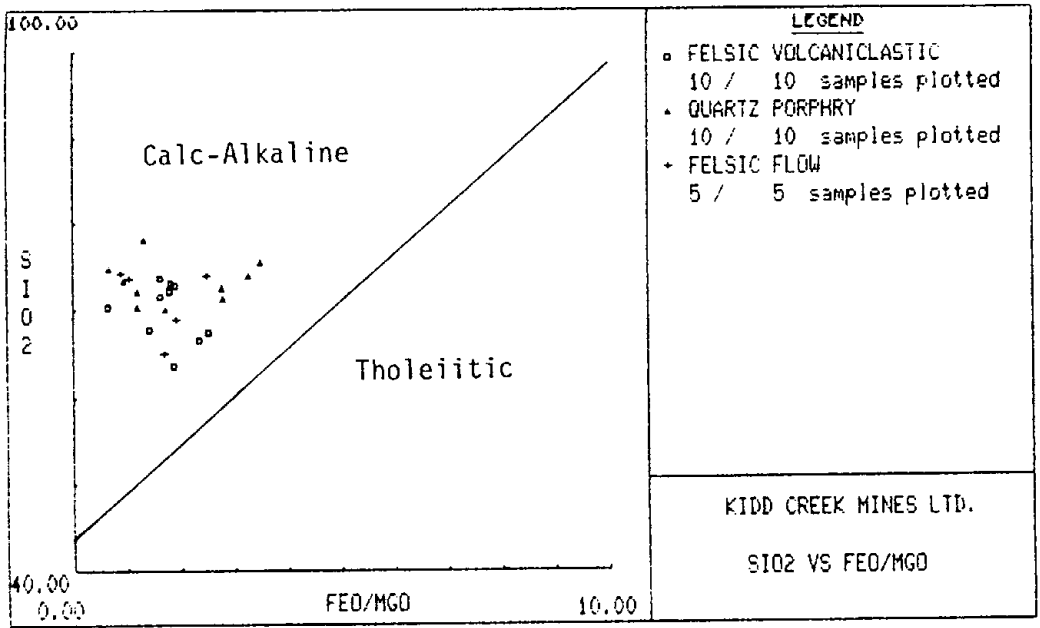


Figure A 6

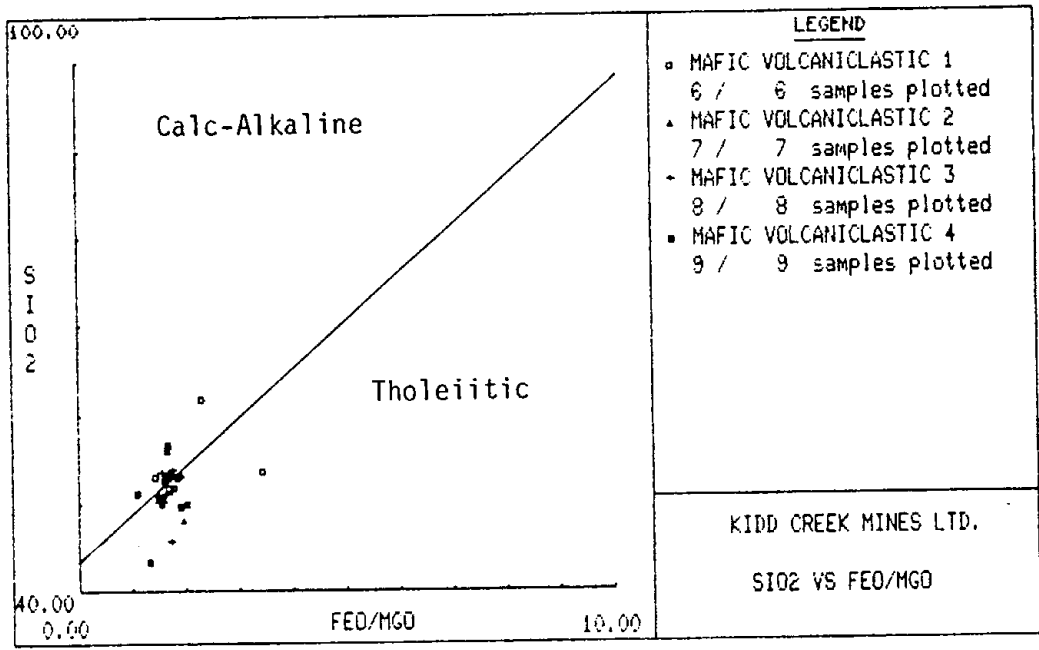


Figure A 7

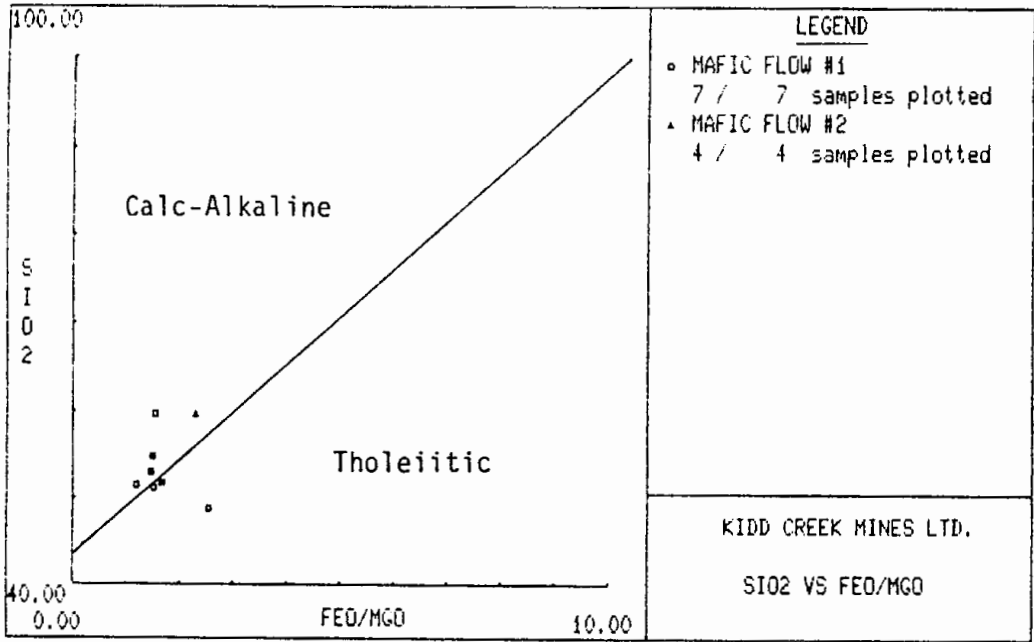


Figure A 8

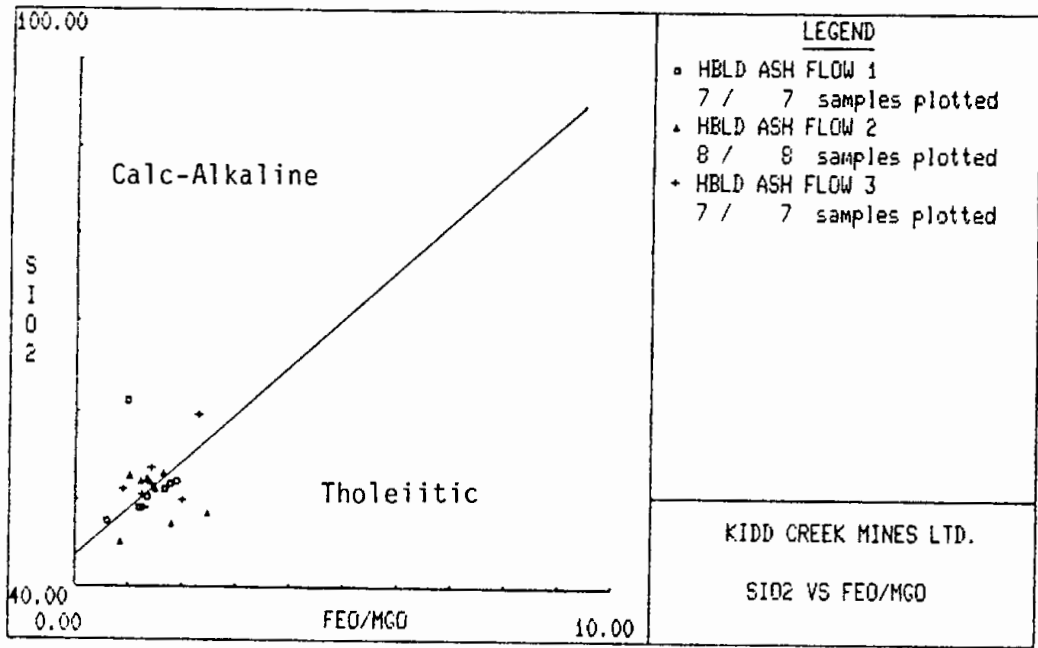


Figure A 9

Figures A 10 to A 13

AFM diagrams;
separation of calc-alkaline and tholeiitic
volcanic suites (after Irvine and Baragar, 1971).

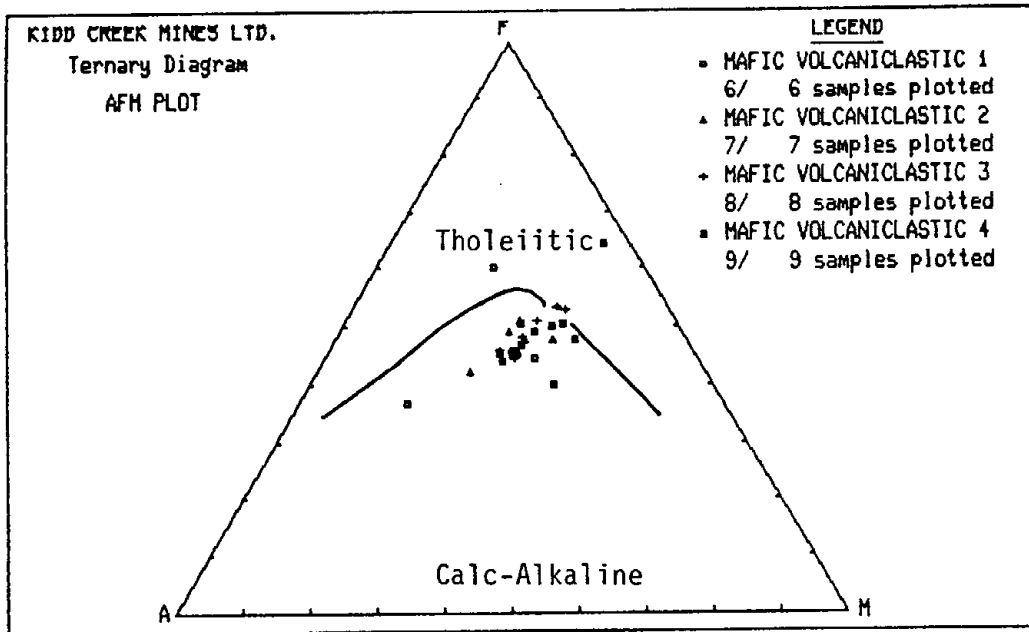


Figure A 10

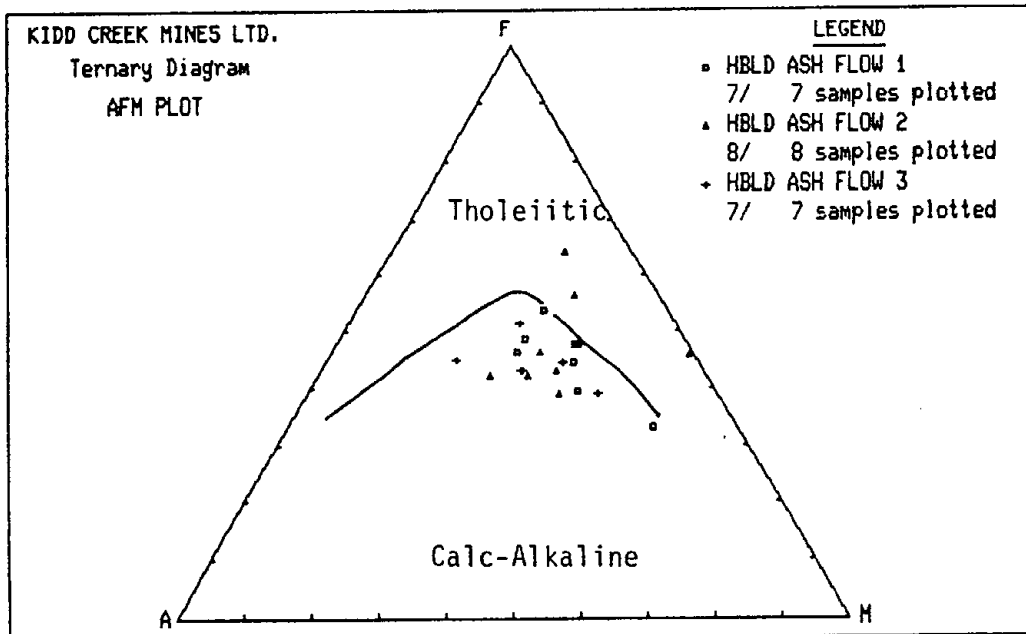


Figure A 11

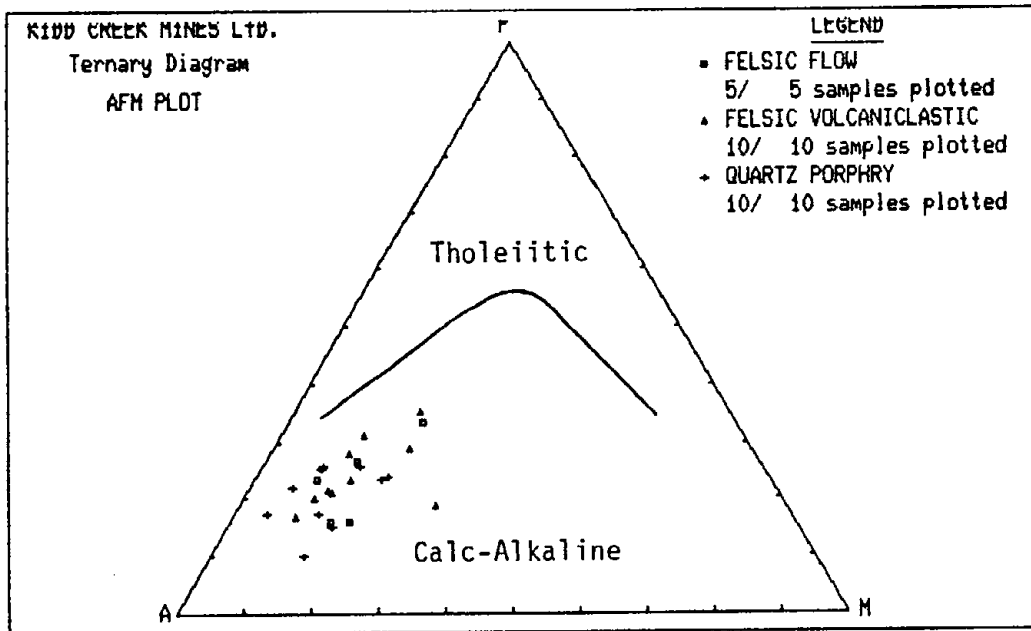


Figure A 12

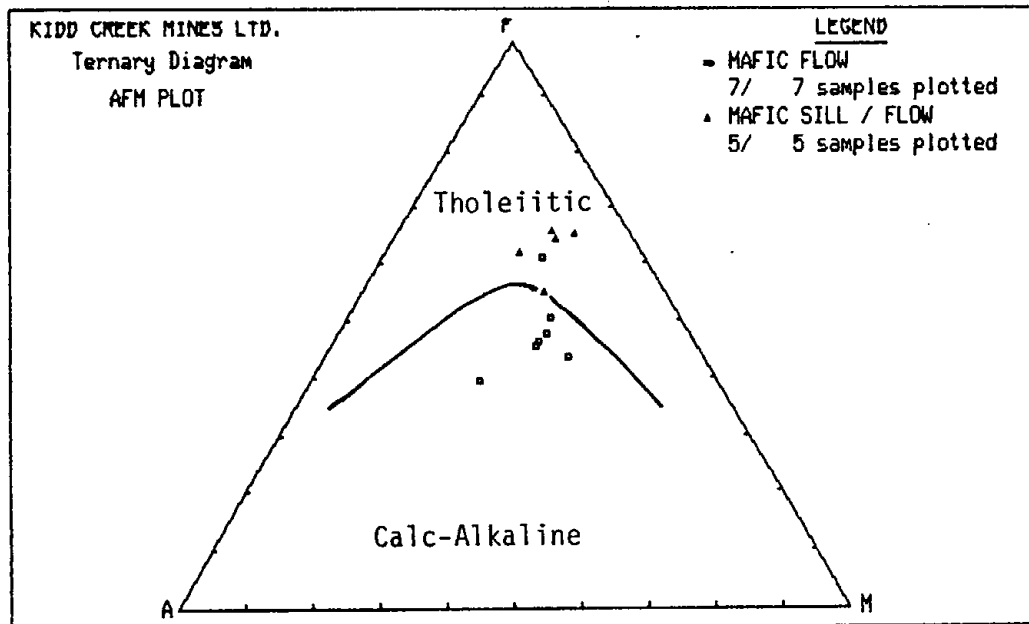


Figure A 13

Figures A 14 to A 21

Discrimination of volcanic rocks
using $Ti \times 100$ (TP), $Zr/10$ and Y ternary plots
(after Pearce and Cann, 1973).

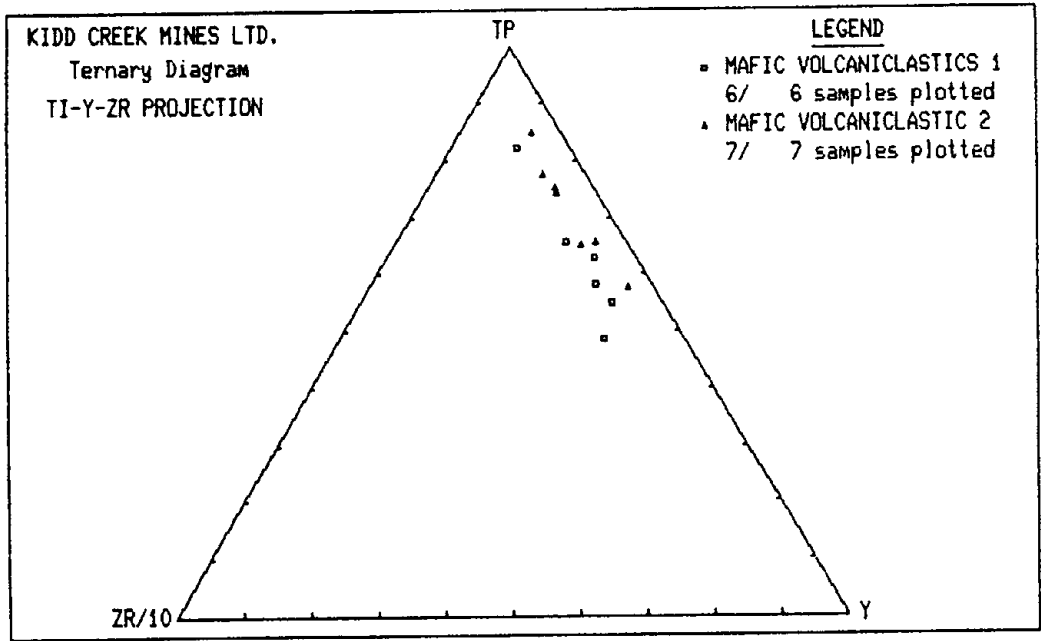


Figure A 14

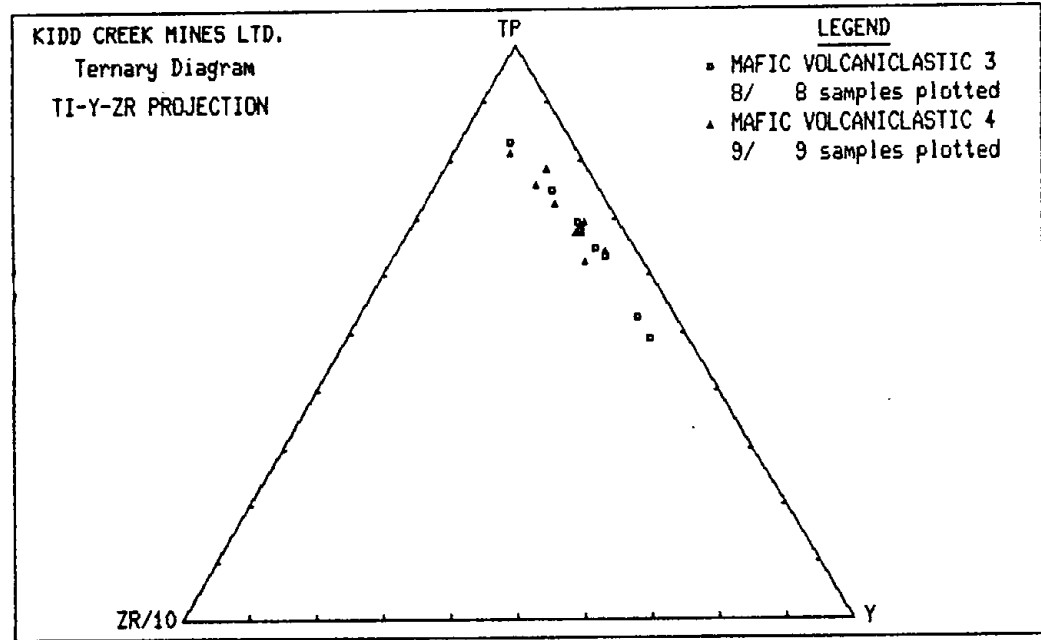


Figure A 15

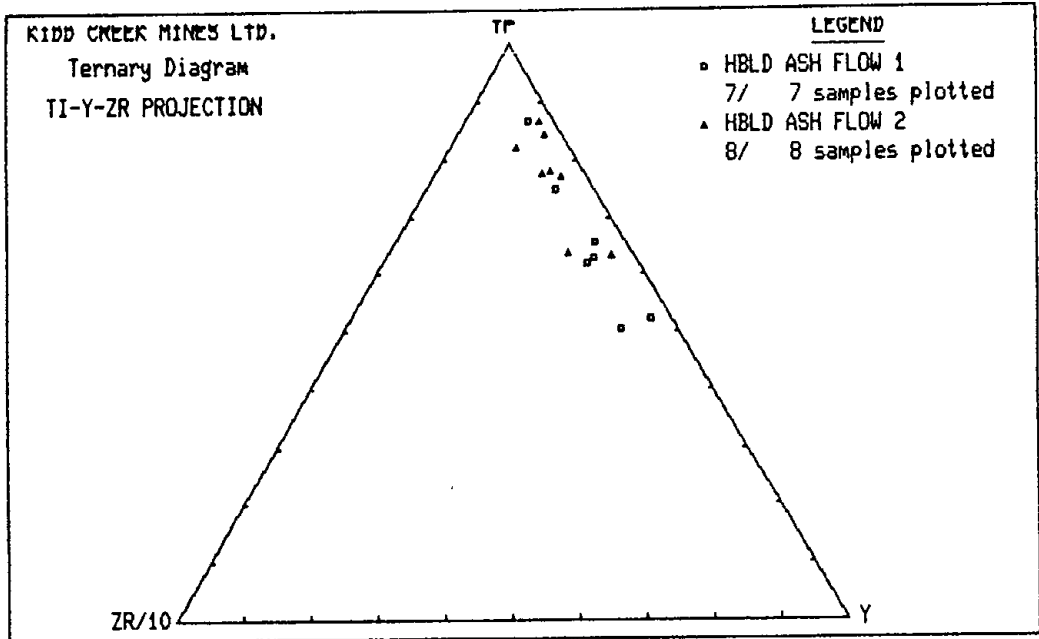


Figure A 16

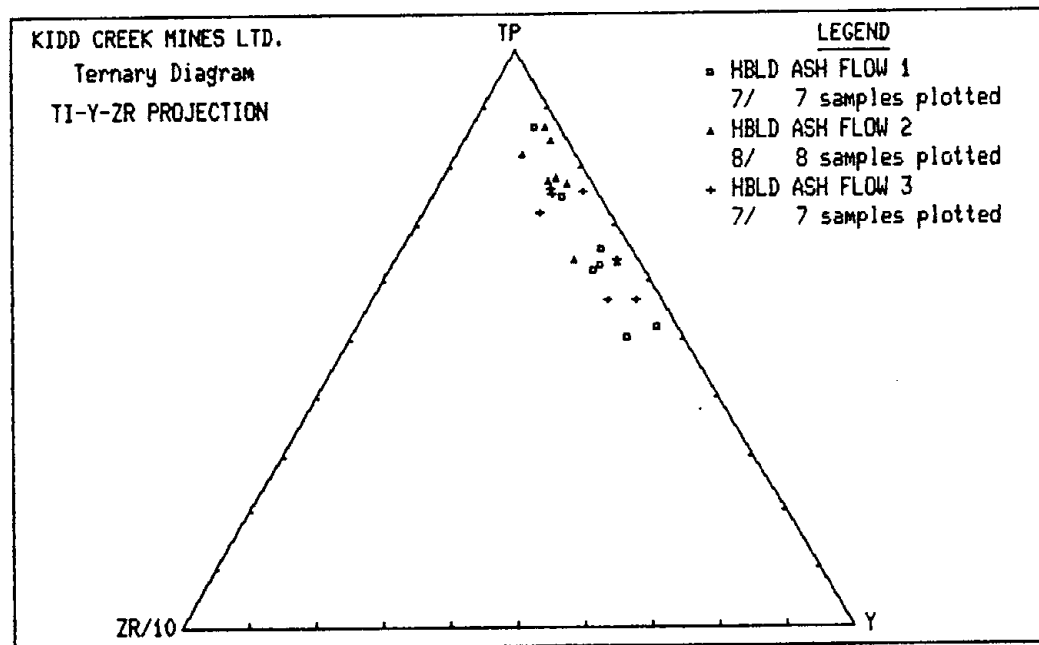


Figure A 17

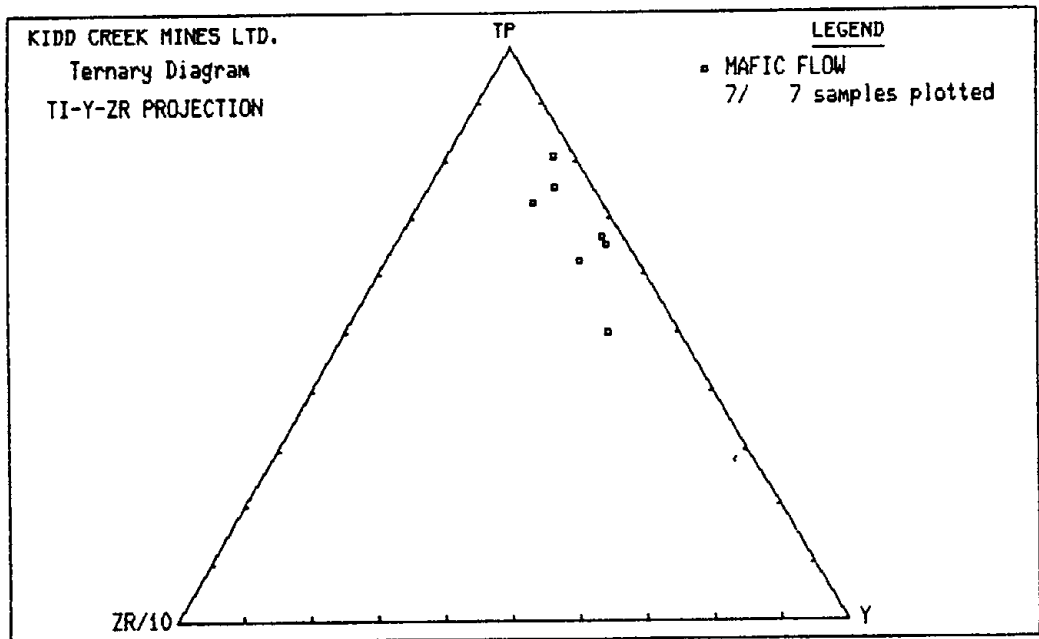


Figure A 18

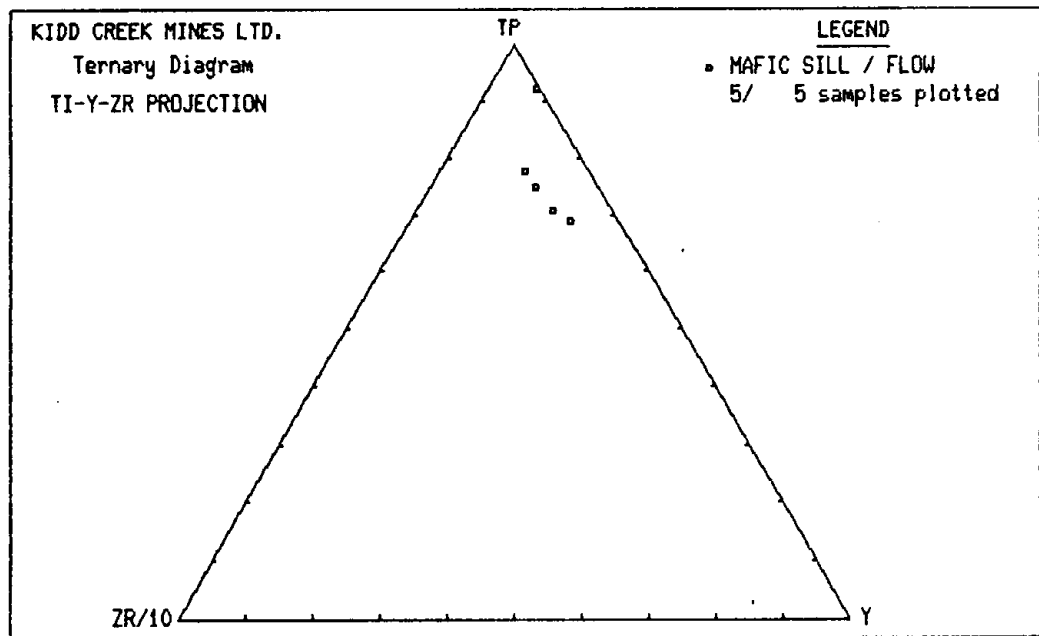


Figure A 19

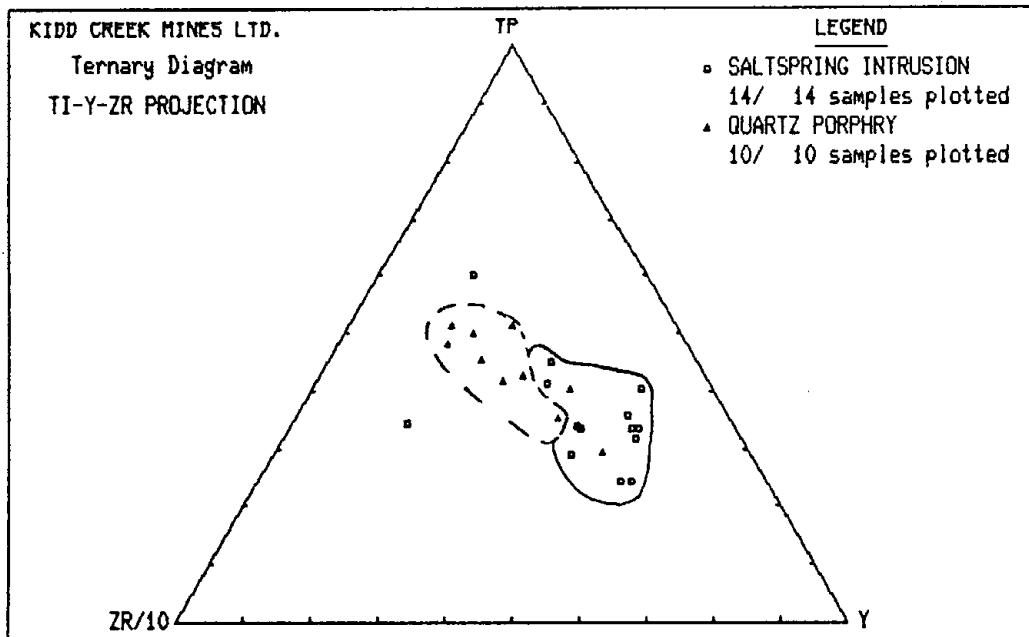


Figure A 20

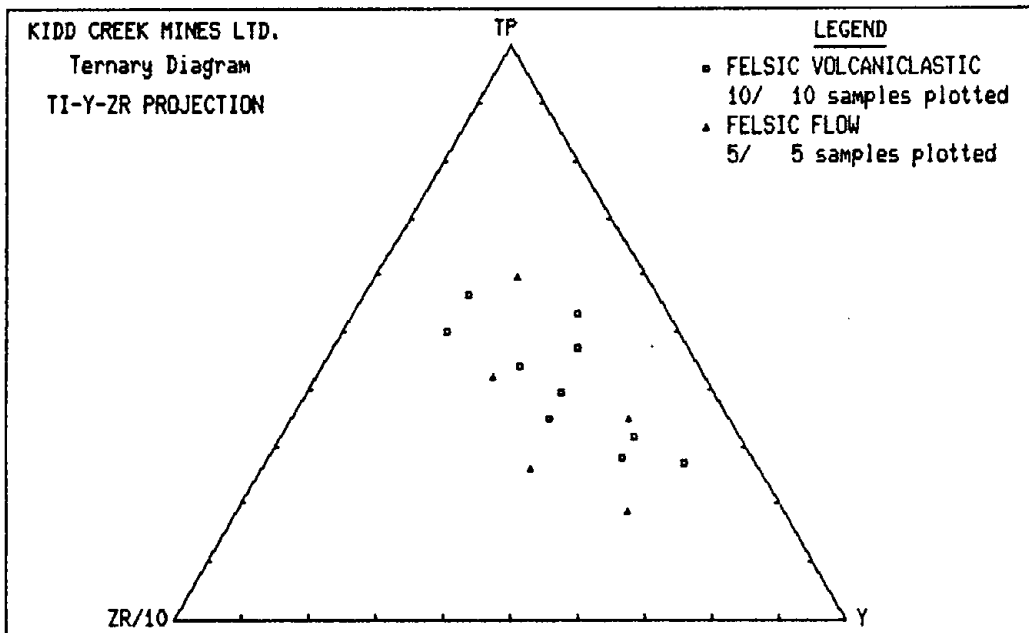


Figure A 21

Figures A 22 to A 28

The alkali "igneous spectrum" (after Hughes, 1972).

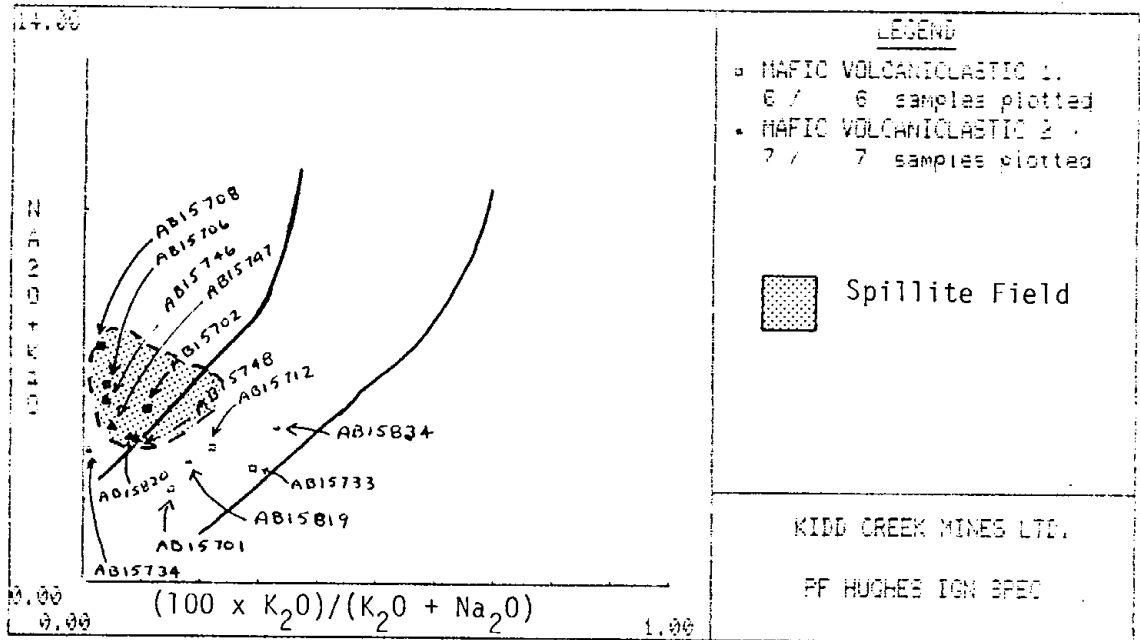


Figure A 22

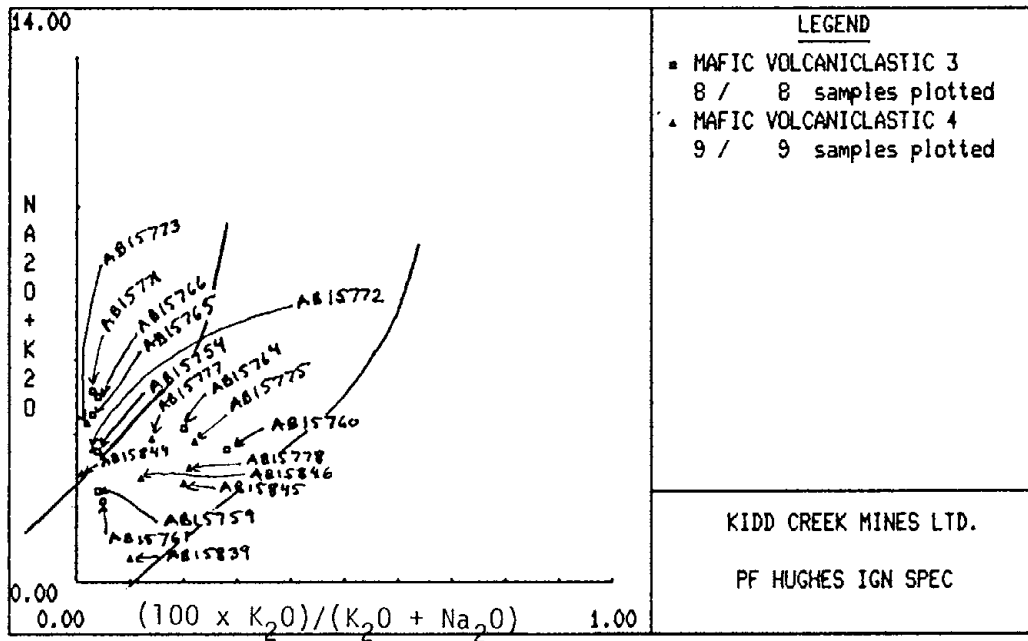


Figure A 23

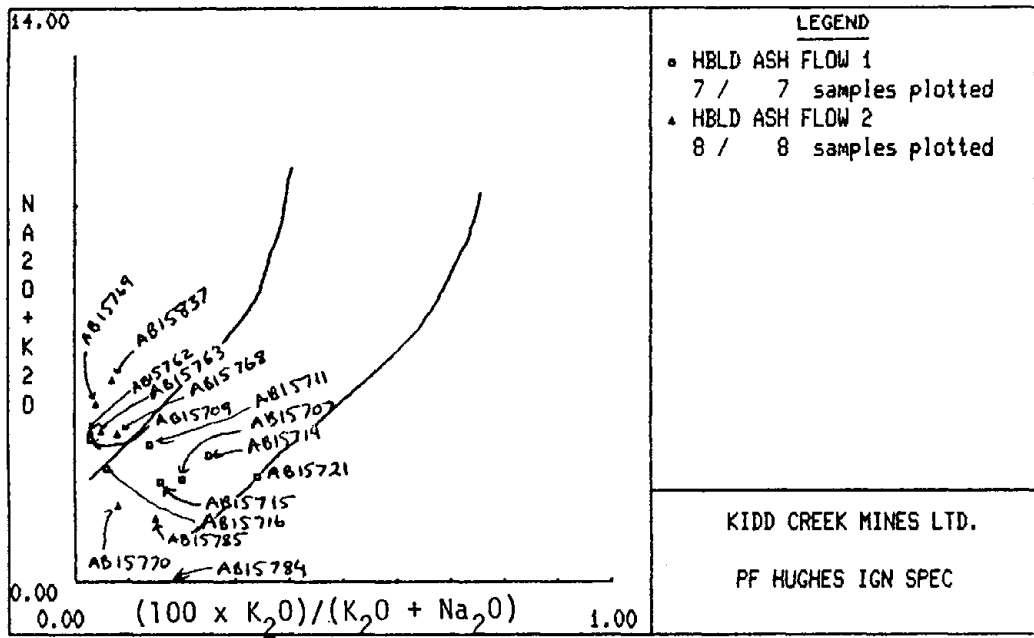


Figure A 24

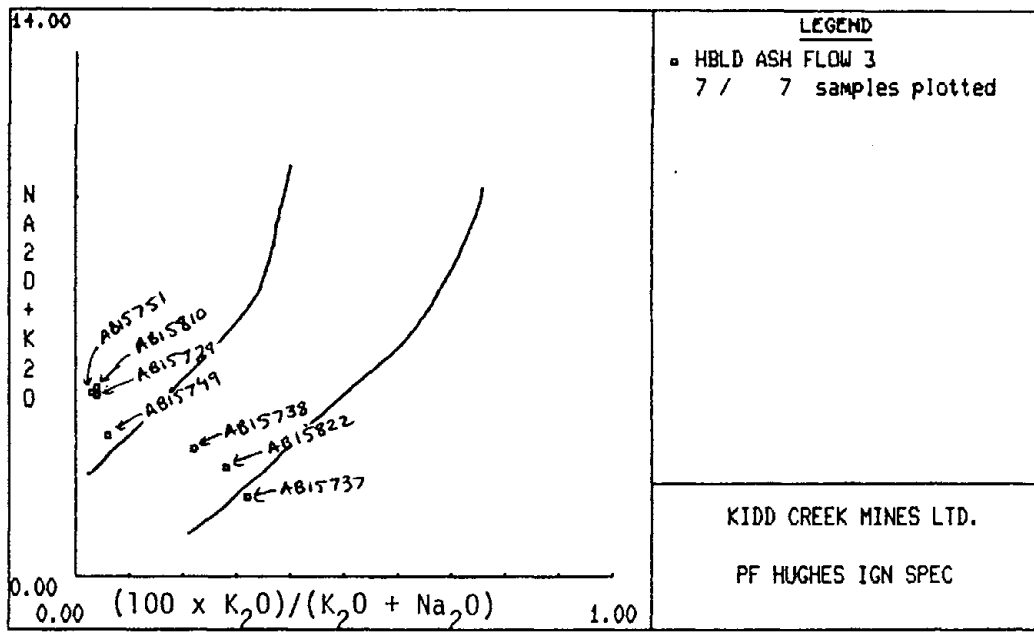


Figure A 25

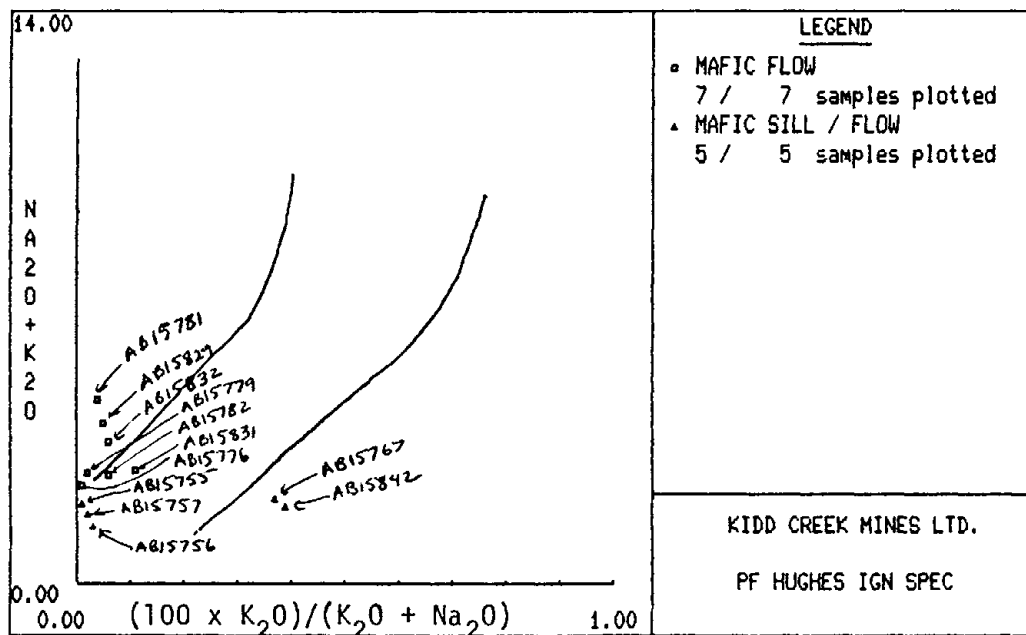


Figure A 26

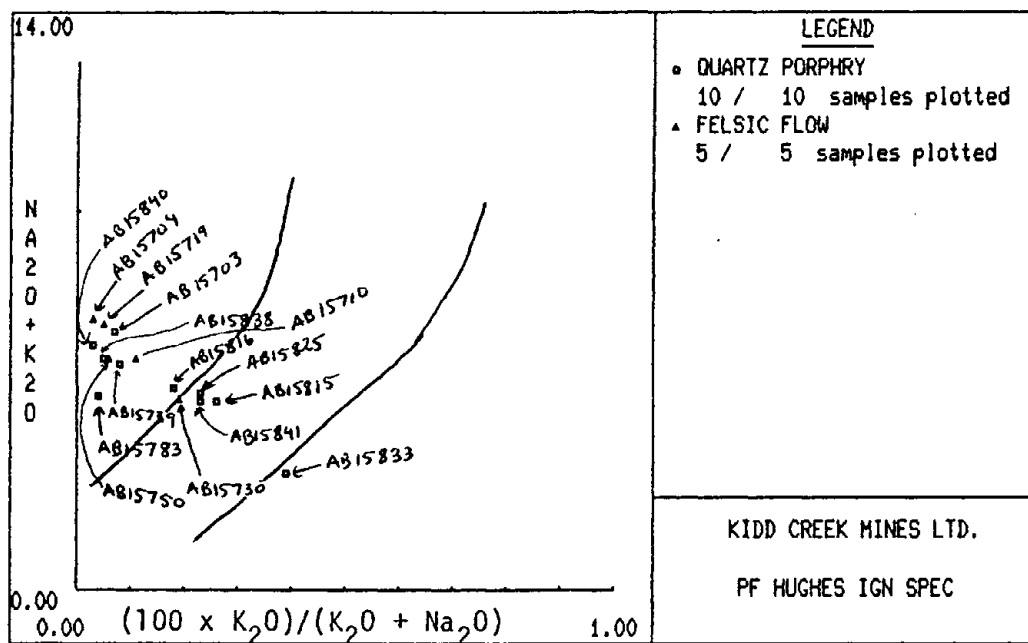


Figure A 27

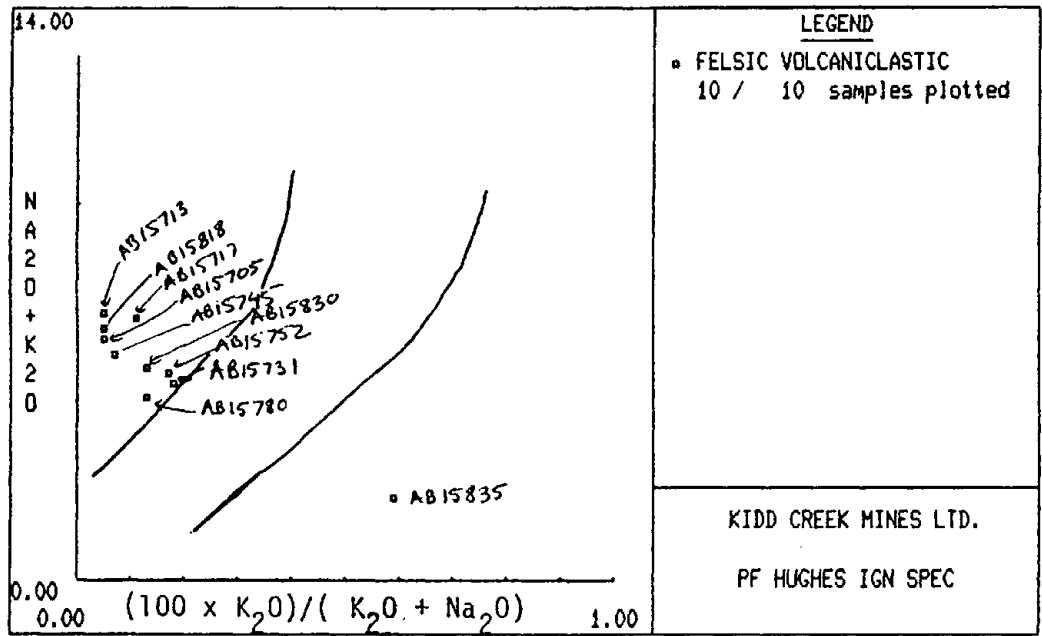


Figure A 28

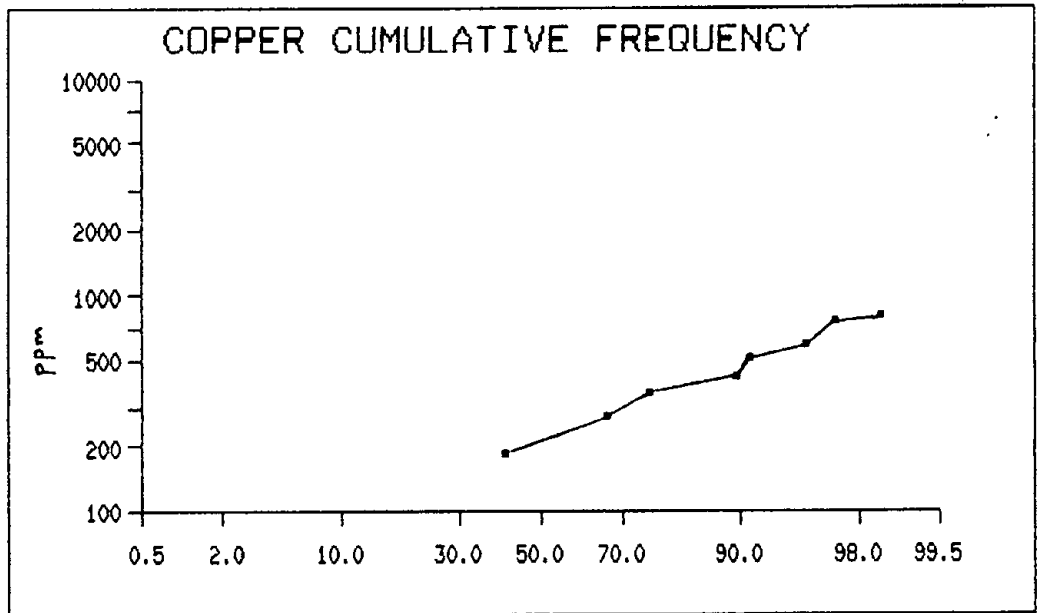


Figure C1 - Soil geochemical statistics: Copper cumulative frequency

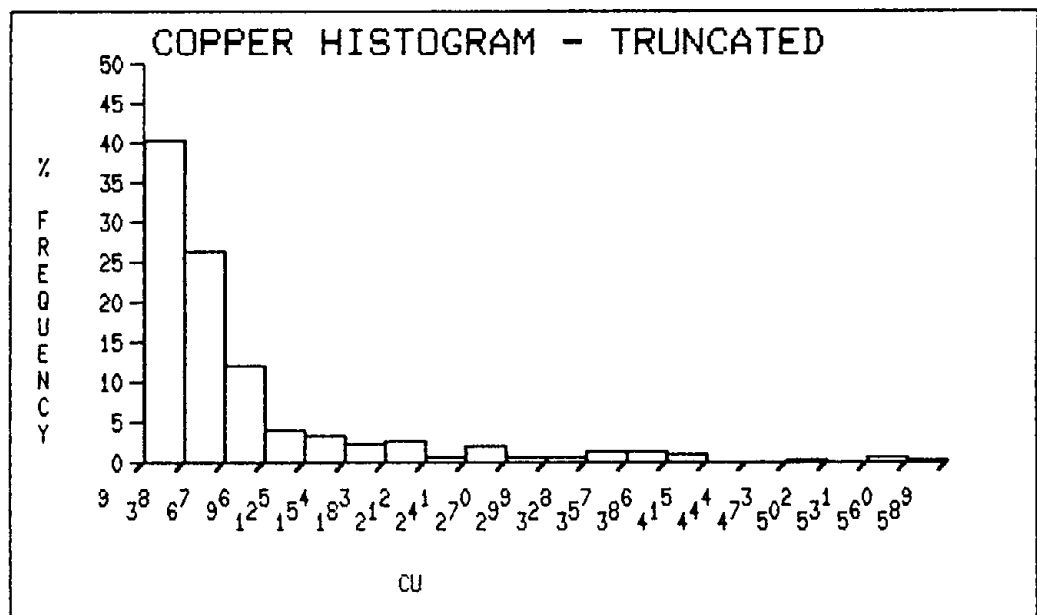


Figure C2 - Soil geochemical statistics: Copper histogram - truncated

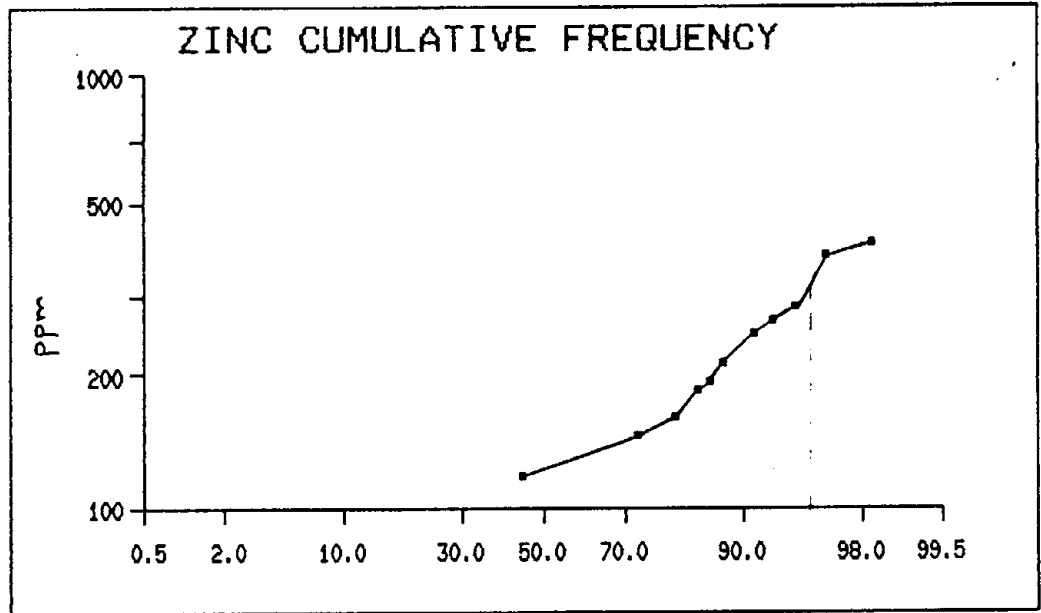


Figure C3 - Soil geochemical statistics: Zinc cumulative frequency

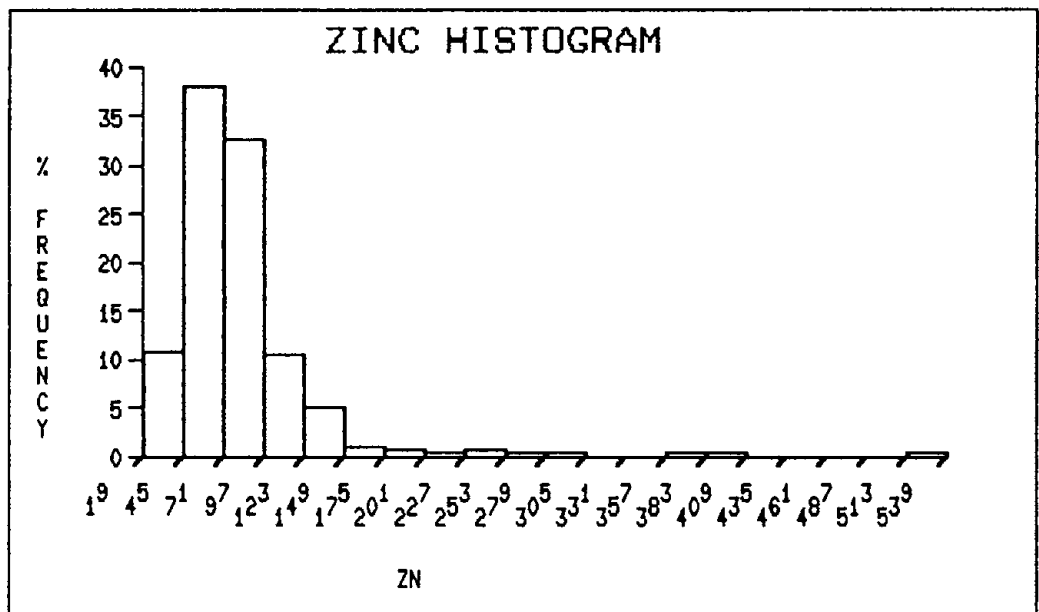


Figure C4 - Soil geochemical statistics: Zinc histogram

REPORT #2000

PAGE 1
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SAMPLE ID # AB15569 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86117-PM109 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456450.0 N : 5409000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : D. MONEY. DATE : 03-JUN-86
 ANALYZED BY : XRAL DATE : 25-JUN-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	72.40	RB	30.00	SR	180.00	Y	20.00	ZR	100.00
Al2O3	14.00	NB	10.00	BA	680.00				
Fe2O3	1.68								
FeO	0.00								
CaO	1.53								
MgO	1.55								
Na2O	5.10								
K2O	1.30								
TiO2	0.27								
P2O5	0.07								
MnO	0.04								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.54								
TOTAL	97.93								

COMMENTS : RHYODACITIC CRYSTAL TUFF WITH ANHEDRAL PLAG. (15%, 1-2MM) AND ELLIPTICAL TO CIRCULAR QTZ. EYES (5%, 2-4MM). GREEN. SILICEOUS, AND ALMOST MASSIVE WITH <1% DISSEMINATED PY.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15574 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86117PM158B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451160.0 N : 5410530.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, MEDIUM, QUARTZ AND FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MONEY. DATE : 08-JUN-86
 ANALYZED BY : XRAL DATE : 25-JUN-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	72.90	RB	30.00	SR	150.00	Y	10.00	ZR	130.00
AL2O3	13.60	NB	20.00	BA	400.00				
FE2O3	2.52								
FE0	0.00								
CAO	1.54								
MGO	1.09								
NA2O	6.01								
K2O	0.62								
TIO2	0.25								
P2O5	0.06								
MNO	0.07								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.31								
TOTAL	98.47								

COMMENTS : MED. GREEN QTZ-FELDSPAR PORPHYRITIC INTRUSIVE. PLAGIOCLASE (20%, 2MM) AND QUARTZ (10-15%, 3-4MM). PJ107/75N.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 09:26:10

SAMPLE ID # AB15575 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28159 FIELD NUMBER : 86117PM161 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451250.0 N : 5410360.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, FELDSPAR PORPHYRITIC, MASSIVE, MAFIC PORPHYRI
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, STRONG.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MONEY. DATE : 08-JUN-86
 ANALYZED BY : XRAL DATE : 25-JUN-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	51.80	RB	30.00	SR	350.00	Y	10.00	ZR	30.00
AL2O3	18.60	NB	10.00	BA	220.00				
FE2O3	9.15								
FE0	0.00								
CA0	3.73								
MGO	5.53								
NA2O	5.44								
K2O	0.18								
TIO2	0.83								
P2O5	0.16								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.89								
TOTAL	94.95								

COMMENTS : ANDESITIC FLOW WITH RAISED EPIDOTIZED AREAS. ON WEATHERED SURFACE, PLAGIO. PORPHS. (3%, 1-2MM). LOCAL CHLORITE PORPHS. (TO 15%). ROCK HAS STRONG ALTERATION TO P.G. CHLORITE GROUNDMASS. MINOR QTZ. VEINING IN O/C.

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

REPORT #2000

PAGE 1
 PRINTED 27-MAR-87
 15:51:20

SAMPLE ID # AB15701 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23685 FIELD NUMBER : 86117KB002A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455800.0 N : 5409040.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, BLOCK, LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, EPIDOTIZATION, MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	53.70	RB	-10.00	SR	760.00	Y	20.00	ZR	50.00
AL2O3	17.00	NB	20.00	BA	290.00	AU	-10.00	LI	-10.00
FE3O3	8.66	BE	-10.00	B	-10.00	SC	25.40	V	310.00
FE0	0.00	CR	79.00	MN	1200.00	CO	12.00	NI	12.00
CAO	12.70	CU	16.00	ZN	33.00	GE	-10.00	AS	2.00
MGO	2.27	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	2.47	CD	-0.20	SB	0.30	CS	-1.00	LA	15.50
K2O	0.43	CE	30.00	ND	11.00	SM	3.20	EU	1.00
TIO2	0.57	YB	1.80	LU	0.37	HF	1.00	TA	-1.00
P2O5	0.20	W	3.00	PB	6.00	BI	-0.50	TH	3.40
MNO	0.17	U	2.30						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.70								
TOTAL	97.50								

COMMENTS : POSSIBLE FRAGMENT FROM A VOLCANICLASTIC.

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15702 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23685 FIELD NUMBER : 86117KB002B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455800.0 N : 5409040.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, BLOCK, MAFIC PORPHYRITIC, LOOK AT COMMENTS
 FINAL NAME :
 ALTERATION : METAMORPHOSED, EPIDOTIZATION, MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	51.70	RB	30.00	SR	590.00	Y	-10.00	ZR	40.00
AL2O3	17.30	NB	20.00	BA	270.00	AU	-10.00	LI	10.00
FE2O3	8.96	BE	-10.00	B	-10.00	SC	32.20	V	270.00
FE0	0.00	CR	85.00	MN	1200.00	CO	23.00	NI	20.00
CA0	9.09	CU	25.00	ZN	54.00	GE	-10.00	AS	-2.00
MGO	4.52	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	4.56	CD	-0.20	SB	0.20	CS	-1.20	LA	17.10
K2O	0.55	CE	33.00	ND	13.00	SM	3.20	EU	0.90
TIO2	0.67	YB	2.20	LU	0.38	HF	1.00	TA	-1.00
P2O5	0.22	W	-3.00	PB	-2.00	BI	-0.50	TH	2.70
MNO	0.19	U	1.90						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.85								
TOTAL	97.07								

COMMENTS : LARGE EPIDOTE KNOTS WHICH ARE POSSIBLE FRAGMENTS. MATRIX IS MED. GRAINED. SAUSSERITIZATION.

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 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AB15703 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB001 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455700.0 N : 5409370.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,FELSIC OR LEUCOCRATIC ,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 21-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	75.00	RB	10.00	SR	120.00	Y	20.00	ZR	90.00
AL2O3	13.40	NB	10.00	BA	830.00	AU	-10.00	LI	-10.00
FE2O3	1.02	BE	-10.00	B	-10.00	SC	2.70	V	10.00
FEO	0.00	CR	68.00	MN	230.00	CO	3.00	NI	4.00
CAO	0.85	CU	2.50	ZN	15.00	GE	-10.00	AS	-2.00
MGO	1.36	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	6.79	CD	-0.20	SB	-0.20	CS	-1.00	LA	13.60
K2O	0.50	CE	23.00	ND	7.00	SM	1.40	EU	0.40
TIO2	0.20	YB	1.20	LU	0.29	HF	2.00	TA	-1.00
P2O5	0.04	W	5.00	PB	-2.00	BI	-0.50	TH	5.10
MNO	0.04	U	2.00						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.93								
TOTAL	99.19								

COMMENTS : LENTICULA AND ROUNDED QTZ. EYES (10-15%). UP TO 6MM. MODERATE SCHISTOSITY.

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 === EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # AB15704 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB003 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455740.0 N : 5408990.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, FINE, LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : SPOTS , EPIDOTIZATION , WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 21-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	73.60	RB	10.00	SR	130.00	Y	40.00	ZR	160.00
Al2O3	13.50	NB	10.00	BA	220.00	AU	-10.00	LI	10.00
Fe2O3	1.89	BE	-10.00	B	-10.00	SC	7.70	V	10.00
FeO	0.00	CR	59.00	MN	190.00	CO	6.00	NI	6.00
CaO	0.82	CU	1.00	ZN	12.00	GE	-10.00	AS	-2.00
MgO	1.60	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
Na2O	7.13	CD	-0.20	SB	-0.20	CS	-1.10	LA	14.30
K2O	0.19	CE	30.00	ND	18.00	SM	3.10	EU	0.50
TiO2	0.22	YB	2.80	LU	0.52	HF	3.00	TA	-1.00
P2O5	0.04	W	-3.00	PB	-2.00	BI	-0.50	TH	3.20
MnO	0.04	U	1.70						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.24								
TOTAL	99.00								

COMMENTS : DACITIC SILL. NO SCHISTOSITY.

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REPORT #2000

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SAMPLE ID # AB15705 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23685 FIELD NUMBER : 86117KB004A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455770.0 N : 5408870.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, CRYSTAL, LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 21-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	67.60	RB	-10.00	SR	300.00	Y	40.00	ZR	120.00
AL2O3	14.60	NB	20.00	BA	300.00	AU	-10.00	LI	10.00
FE2O3	4.24	BE	-10.00	B	-10.00	SC	14.50	V	50.00
FE0	0.00	CR	66.00	MN	340.00	CO	10.00	NI	6.00
CA0	1.48	CU	2.50	ZN	21.00	GE	-10.00	AS	-2.00
MGO	2.68	SE	-3.00	BR	-9.00	MO	-5.00	AG	-0.50
NA2O	6.36	CD	-0.20	SB	-0.20	CS	-0.70	LA	16.30
K2O	0.35	CE	34.00	ND	16.00	SM	4.00	EU	1.30
TIO2	0.40	YB	3.40	LU	0.63	HF	3.00	TA	1.00
P2O5	0.10	W	4.00	PB	-2.00	BI	-0.50	TH	2.50
MNO	0.06	U	1.40						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.00								
TOTAL	97.63								

COMMENTS : TOSS UP BETWEEN A CRYSTAL TUFF OR A PHYRIC FLOW.

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SAMPLE ID # AB15706 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB004B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455770.0 N : 5408870.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, LITHIC, MAFIC PORPHYRITIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION , WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 21-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	51.90	RB	40.00	SR	420.00	Y	20.00	ZR	30.00
AL2O3	17.30	NB	20.00	BA	210.00	AU	-10.00	LI	10.00
FE2O3	10.40	BE	-10.00	B	-10.00	SC	39.00	V	290.00
FE0	0.00	CR	71.00	MN	820.00	CD	33.00	NI	22.00
CAO	5.34	CU	110.00	ZN	79.00	GE	-10.00	AS	-2.00
MGO	5.56	SE	-3.00	RR	-1.00	MO	-5.00	AG	-0.50
NA2O	5.18	CD	-0.20	SB	0.30	CS	-0.90	LA	15.90
K2O	0.24	CE	29.00	ND	12.00	SM	3.40	EU	0.80
TIO2	0.72	YB	2.20	LU	0.34	HF	2.00	TA	-1.00
P2O5	0.17	W	-4.00	PB	-2.00	BI	-0.50	TH	2.70
MNO	0.18	U	2.00						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.93								
TOTAL	96.16								

COMMENTS :

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SAMPLE ID # AB15707 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB005 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455900.0 N : 5408840.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 31-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	52.00	RB	20.00	SR	410.00	Y	20.00	ZR	30.00
Al2O3	15.00	NB	10.00	BA	410.00	AU	-10.00	LI	10.00
Fe2O3	11.20	BE	-10.00	B	20.00	SC	36.00	V	290.00
FeO	0.00	CR	120.00	MN	1100.00	CO	38.00	NI	37.00
CaO	10.00	CU	39.00	ZN	56.00	GE	-10.00	AS	-2.00
MgO	5.28	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
Na2O	2.78	CD	-0.20	SB	0.20	CS	-1.00	LA	12.70
K2O	0.68	CE	29.00	ND	15.00	SM	3.30	EU	0.70
TiO2	0.72	YB	2.20	LU	0.36	HF	1.00	TA	-1.00
P2O5	0.20	W	4.00	PB	-2.00	RI	-0.50	TH	2.50
MnO	0.18	U	1.30						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.23								
TOTAL	97.13								

COMMENTS : EUHEDRAL HORNBLLENDE UP TO 7MM.

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

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SAMPLE ID # AB15708 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB008 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455170.0 N : 5409010.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE.
 FINAL NAME :
 ALTERATION : SPOTS , EPIDOTIZATION , LOOK AT COMMENTS.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 22-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	61.80	RB	20.00	SR	410.00	Y	30.00	ZR	90.00
AL2O3	16.40	NB	20.00	BA	170.00	AU	-10.00	LI	-10.00
FE2O3	5.76	BE	-10.00	B	-10.00	SC	16.00	V	80.00
FE0	0.00	CR	52.00	MN	650.00	CO	15.00	NI	5.00
CA0	4.50	CU	16.00	ZN	34.00	GE	-10.00	AS	-2.00
MGO	2.26	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	6.38	CD	-0.20	SB	0.20	CS	-0.90	LA	14.10
K2O	0.22	CE	32.00	ND	12.00	SM	4.20	EU	1.00
TiO2	0.61	YB	3.30	LU	0.52	HF	3.00	TA	-1.00
P2O5	0.24	W	3.00	PB	-2.00	BI	-0.50	TH	2.30
MNO	0.10	U	0.80						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.85								
TOTAL	97.89								

COMMENTS : MOST OBSERVABLE ALTERATION IS THAT OF FELDSPAR CRYSTALS.

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

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SAMPLE ID # AB15709 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB010A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455180.0 N : 5409280.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,EQUIGRANULAR.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 22-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	61.10	RB	10.00	SR	50.00	Y	30.00	ZR	60.00
Al2O3	12.40	NB	20.00	BA	110.00	AU	-10.00	LI	10.00
Fe2O3	8.33	BE	-10.00	B	10.00	SC	21.40	V	110.00
FeO	0.00	CR	42.00	MN	820.00	CO	36.00	NI	8.00
CaO	2.55	CU	-0.50	ZN	75.00	GE	10.00	AS	-2.00
MgO	7.69	SE	-3.00	BR	1.00	MO	-5.00	AG	-0.50
Na2O	3.81	CD	-0.20	SB	-0.20	CS	-0.90	LA	7.20
K2O	0.10	CE	17.00	ND	7.00	SM	1.80	EU	0.30
TiO2	0.61	YB	2.40	LU	0.39	HF	1.00	TA	-1.00
P2O5	0.12	W	-3.00	PB	-2.00	BI	-0.50	TH	1.60
MnO	0.14	U	1.50						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.23								
TOTAL	96.22								

COMMENTS : POSSIBLY A SHEARED MAFIC FLOW.

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15710 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB010B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455180.0 N : 5409280.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,MEDIUM,QUARTZ PLUS FELDSPAR PORPHYRITIC,LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 22-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT Z	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)									
SI02	74.00	KB	20.00	SR	180.00	Y	10.00	ZR	120.00		
AL2O3	13.30	NB	10.00	BA	410.00	AU	-10.00	LI	-10.00		
FE2O3	1.83	BE	-10.00	B	10.00	SC	5.30	V	30.00		
FEO	0.00	CR	84.00	MN	230.00	CO	7.00	NI	4.00		
CAO	0.70	CU	2.00	ZN	18.00	GE	-10.00	AS	-2.00		
MGO	1.84	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50		
NA2O	6.14	CD	-0.20	SB	-0.20	CS	0.80	LA	12.60		
K2O	0.73	CE	22.00	ND	7.00	SM	1.60	EU	0.50		
TIO2	0.26	YB	1.40	LU	0.27	HF	3.00	TA	-1.00		
P2O5	0.06	W	3.00	PB	2.00	BI	-0.50	TH	3.60		
MNO	0.04	U	2.20								
S	0.00										
NIO	0.00										
CR2O3	0.00										
CO2	0.00										
H2O+	0.00										
CO2	0.00										
H2O+	0.00										
H2O-	0.00										
LOI	1.31										
TOTAL	98.88										

COMMENTS : POSSIBLE FLOW. HOWEVER IT MAY BE A DYKE OR SILL. NORTH PART OF O/C IS A CHLORITE SCHIST WHICH INDICATES A CONTACT BETWEEN THE TWO.

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15711 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB006 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455650.0 N : 5408740.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION , STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 22-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	51.80	RB	30.00	SR	430.00	Y	20.00	ZR	50.00
Al2O3	16.50	NB	20.00	BA	440.00	AU	-10.00	LI	-10.00
Fe2O3	9.82	BE	-10.00	B	10.00	SC	36.30	V	320.00
FeO	0.00	CR	110.00	MN	1100.00	CO	30.00	NI	24.00
CaO	8.77	CU	190.00	ZN	82.00	GE	10.00	AS	2.00
MgO	5.00	SE	-3.00	BR	2.00	MO	-5.00	AG	-0.50
Na2O	3.69	CD	-0.20	SB	-0.20	CS	-1.00	LA	17.90
K2O	0.62	CE	37.00	ND	16.00	SM	3.70	EU	1.00
TiO2	0.68	YB	2.30	LU	0.37	HF	1.00	TA	-1.00
P2O5	0.17	W	3.00	PR	-2.00	BI	-0.50	TH	3.80
MnO	0.18	U	2.80						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.39								
TOTAL	96.45								

COMMENTS :

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15712 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB011 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455160.0 N : 5409220.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 22-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	53.20	RB	40.00	SR	990.00	Y	20.00	ZR	40.00
AL2O3	17.80	NB	20.00	BA	820.00	AU	-10.00	LI	-10.00
FE2O3	8.56	BE	-10.00	B	20.00	SC	31.40	V	260.00
FEO	0.00	CR	54.00	MN	880.00	CO	24.00	NI	14.00
CAO	7.03	CU	80.00	ZN	45.00	GE	-10.00	AS	-2.00
MGO	4.69	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	3.62	CD	-0.20	SB	0.20	CS	-0.90	LA	19.70
K2O	1.00	CE	38.00	ND	15.00	SM	4.00	EU	1.00
TIO2	0.67	YB	2.30	LU	0.42	HF	2.00	TA	-1.00
P2O5	0.22	W	-3.00	PB	-2.00	BI	-0.50	TH	4.10
MNO	0.14	U	2.50						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.85								
TOTAL	96.28								

COMMENTS :

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

REPORT #2000

PAGE 1
 PRINTED 27-MAR-87
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SAMPLE ID # AB15713 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB013 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455160.0 N : 5409035.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, FINE, MASSIVE , LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : SPOTS , EPIDOTIZATION , WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 22-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	73.00	RB	10.00	SR	180.00	Y	20.00	ZR	140.00
AL2O3	14.00	NB	20.00	BA	500.00	AU	-10.00	LI	-10.00
FE2O3	1.92	BE	-10.00	B	20.00	SC	7.80	V	10.00
FeO	0.00	CR	77.00	MN	250.00	CO	3.00	NI	4.00
CaO	1.72	CU	3.50	ZN	13.00	GE	10.00	AS	-2.00
MgO	0.95	SE	-3.00	BR	2.00	MO	-5.00	AG	-0.50
Na2O	7.09	CD	-0.20	SB	-0.20	CS	-0.60	LA	25.00
K2O	0.41	CE	34.00	ND	15.00	SM	5.60	EU	1.30
TiO2	0.29	YB	4.20	LU	0.68	HF	4.00	TA	-1.00
P2O5	0.08	W	7.00	PB	-2.00	BI	-0.50	TH	3.20
MNO	0.04	U	2.30						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.85								
TOTAL	99.48								

COMMENTS : NEAR THE CONTACT OF A MAFIC FLOW AND A QIZ. PORPHYRY. EPIDOTE ALTERATION OF FELDSPARS.

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

REPORT #2000

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SAMPLE ID # AB15714 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB014 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455030.0 N : 5409140.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, MAFIC, MEDIUM, MAFIC PORPHYRITIC.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 23-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
S102	51.30	RB	30.00	SR	640.00	Y	20.00	ZR	40.00
AL2O3	17.60	NB	20.00	BA	890.00	AU	-10.00	LI	-10.00
FE2O3	8.95	BE	-10.00	B	10.00	SC	34.70	V	290.00
FeO	0.00	CR	85.00	MN	1100.00	CO	26.00	NI	23.00
CaO	9.92	CU	1.50	ZN	66.00	GE	10.00	AS	2.00
MgO	4.80	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
Na2O	3.36	CD	-0.20	SB	0.30	CS	-0.90	LA	16.70
K2O	1.14	CE	35.00	ND	13.00	SM	3.70	EU	0.60
TiO2	0.68	YB	2.30	LU	0.38	HF	1.00	TA	-1.00
P2O5	0.18	W	6.00	PB	-2.00	BI	-0.50	TH	3.30
MNO	0.16	U	1.90						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.70								
TOTAL	97.40								

COMMENTS :

==== F A L C O N B R I D G E L T D =====
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REPORT #2000

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SAMPLE ID # AB15715 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB015A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455000.0 N : 5409770.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,COARSE,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 23-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	50.20	RB	-10.00	SR	450.00	Y	30.00	ZR	20.00
AL2O3	13.90	NB	-10.00	BA	210.00	AU	10.00	LI	-10.00
FE2O3	10.10	BE	-10.00	B	-10.00	SC	45.40	V	300.00
FEO	0.00	CR	240.00	MN	1300.00	CO	27.00	NI	45.00
CAO	12.50	CU	12.00	ZN	110.00	GE	-10.00	AS	-2.00
MGO	6.79	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	2.66	CD	-0.30	SB	0.20	CS	-1.00	LA	13.40
K2O	6.52	CE	26.00	ND	11.00	SM	2.90	EU	0.80
TI02	0.57	YB	1.90	LU	0.32	HF	1.00	TA	-1.00
P2O5	0.15	W	-3.00	PB	2.00	BI	-0.50	TH	2.50
MNO	0.20	U	1.50						
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.54								
TOTAL	96.80								

COMMENTS : ROCK IS MOST LIKELY A HORNBLENDE PORPHYRY FLOW.

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

REPORT #2000

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SAMPLE ID # AB15716 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB015B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455000.0 N : 5409770.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 23-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	47.50	RB	10.00	SR	230.00	Y	10.00	ZR	30.00
Al2O3	13.60	NR	20.00	BA	170.00	AU	-10.00	LI	-10.00
Fe2O3	9.28	FE	-10.00	B	20.00	SC	30.10	V	240.00
FeO	0.00	CR	790.00	MN	940.00	CO	58.00	NI	430.00
CaO	5.31	CU	30.00	ZN	140.00	GE	-10.00	AS	2.00
MgO	13.80	SE	-3.00	BR	2.00	MO	-5.00	AG	-0.50
Na2O	3.00	CD	-0.20	SB	0.20	CS	1.10	LA	12.10
K2O	0.19	CE	28.00	ND	13.00	SA	3.00	EU	0.80
TiO2	0.64	YB	1.70	LU	0.30	HF	1.00	TA	-1.00
P2O5	0.17	W	-3.00	PR	-2.00	BI	-0.50	TH	2.30
MnO	0.18	U	1.70						
S	0.00								
NiO	0.00								
CR2O3	0.08								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.00								
TOTAL	93.03								

COMMENTS : ROCK OCCURS IN A SMALL NATURAL TRENCH WHICH NOW REPRESENTS A FORMER SHEAR ZONE. THIS ROCK IS PROBABLY THE SHEARED EQUIVALENT OF 015A.

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15717 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23685 FIELD NUMBER : 86117KB017 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455070.0 N : 5409930.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 23-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	66.50	KB	20.00	SR	110.00	Y	70.00	ZR	120.00
Al2O3	15.60	NB	20.00	BA	450.00	AU	-10.00	LI	-10.00
Fe2O3	3.98	BE	-10.00	B	20.00	SC	12.50	V	70.00
FeO	0.00	CR	100.00	MN	330.00	CO	4.00	NI	10.00
CaO	1.48	CU	5.00	ZN	32.00	GE	-10.00	AS	-2.00
MgO	1.52	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
Na2O	6.94	CD	-0.20	SB	-0.20	CS	1.10	LA	13.70
K2O	0.82	CE	35.00	ND	18.00	SM	5.30	EU	0.90
TiO2	0.49	YB	5.10	LU	0.81	HF	4.00	TA	-1.00
P2O5	0.16	W	5.00	PB	4.00	BI	-0.50	TH	5.00
MnO	0.06	U	1.50						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.85								
TOTAL	97.34								

COMMENTS : DACITIC SILL. FLOW. VERY FINE GRAINED QTZ. GRAINS EVIDENT ON WEATHERED SURFACE.

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

REPORT #2000

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SAMPLE ID # AB15718 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB018 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454960.0 N : 5409990.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VEIN, QUARTZ, FINE.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 5-20% , PYRITE PLUS CHALCOPYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 23-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	75.40	RB	-10.00	SR	70.00	Y	-10.00	ZR	100.00
Al2O3	8.48	NB	-10.00	BA	800.00	AU	180.00	LI	-10.00
Fe2O3	2.17	BE	-10.00	B	20.00	SC	5.70	V	40.00
FeO	0.00	CR	130.00	MN	560.00	CO	2.00	NI	6.00
CaO	4.12	CU	3500.00	ZN	19.00	GE	-10.00	AS	-2.00
MgO	0.64	SE	3.00	BR	-1.00	MO	5.00	AG	-0.50
Na2O	3.07	CD	-0.20	SB	-0.20	CS	-0.50	LA	8.50
K2O	0.98	CE	22.00	ND	8.00	SM	2.00	EU	0.50
TiO2	0.16	YB	2.70	LU	0.51	HF	3.00	IA	-1.00
P2O5	0.04	W	4.00	PB	2.00	BI	0.50	TH	3.40
MnO	0.08	U	0.90						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.16								
TOTAL	95.08								

COMMENTS : QTZ. VEINS VARYING IN WIDTH AND ORIENTATION IN A DACITIC ROCK.

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

REPORT #2000

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 16:03:19

SAMPLE ID # AB15719 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB020 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455080.0 N : 5409990.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE , LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 23-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	68.80	RB	20.00	SR	130.00	Y	40.00	ZR	120.00
Al2O3	14.70	NB	30.00	BA	250.00	AU	-10.00	LI	-10.00
Fe2O3	3.64	BE	-10.00	B	30.00	SC	12.40	V	70.00
FeO	0.00	CR	74.00	MN	300.00	CO	4.00	NI	4.00
CaO	1.18	CU	60.00	ZN	33.00	GE	-10.00	AS	14.00
MgO	1.70	SE	-3.00	BR	-1.00	MO	5.00	AG	-0.50
Na2O	7.01	CD	-0.20	SB	0.30	CS	-0.50	LA	18.00
K2O	0.39	CE	30.00	ND	17.00	SM	3.60	EU	0.60
TiO2	0.46	YB	3.00	LU	0.55	HF	4.00	TA	-1.00
P2O5	0.11	W	-3.00	PB	-2.00	BI	-0.50	TH	3.10
MNO	0.05	U	-0.50						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.77								
TOTAL	97.86								

COMMENTS : LARGE O/C WITH A BRECCIATED ZONE. ROCK IS A RHYODACITE FLOW. QTZ. EYES LESS THAN 1MM OBSERVED.

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15720 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KBOOX 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 : GRAB SAMPLE

FIELD NAME : PLUTONIC,FELSIC OR LEUCOCRATIC ,COARSE,QUARTZ PORPHYRITIC,IN SITU BRECC
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 24-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	73.70	RB	50.00	SR	360.00	Y	20.00	ZR	80.00
Al2O3	13.30	NB	20.00	BA	1420.00	AU	-10.00	LI	-10.00
Fe2O3	1.53	BE	-10.00	B	30.00	SC	2.50	V	20.00
FeO	0.00	CR	95.00	MN	180.00	CO	2.00	NI	5.00
CaO	1.79	CU	17.00	ZN	13.00	GE	10.00	AS	-2.00
MgO	0.30	SE	-3.00	BR	1.00	MO	-5.00	AG	-0.50
Na2O	4.99	CD	-0.20	SB	-0.20	CS	-0.60	LA	15.50
K2O	2.44	CE	22.00	ND	6.00	SM	1.30	EU	0.30
TiO2	0.15	YB	1.30	LU	0.29	HF	2.00	TA	-1.00
P2O5	0.04	W	3.00	PB	4.00	BI	-0.50	TH	7.80
MnO	0.03	U	3.00						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.85								
TOTAL	98.26								

COMMENTS : SAMPLED FOR DATABASE USE. SAMPLE FROM SALTSRING ISLAND.

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15721 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117KB00Z 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 : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH.
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 24-MAY-86
 DATE : 04-JUL-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	49.10	RB	-10.00	SR	570.00	Y	-10.00	ZR	20.00
AL2O3	14.20	NB	10.00	BA	580.00	AU	-10.00	LI	-10.00
FE2O3	11.30	BE	-10.00	B	20.00	SC	50.80	V	350.00
FEO	0.00	CR	180.00	MN	1200.00	CO	42.00	NI	53.00
CAO	8.65	CU	130.00	ZN	100.00	GE	-10.00	AS	-2.00
MGO	8.49	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	2.83	CD	-0.20	SB	-0.20	CS	-1.00	LA	17.20
K2O	1.45	CE	34.00	ND	17.00	SM	4.20	EU	1.50
TIO2	0.75	YB	1.90	LU	0.30	HF	1.00	TA	1.00
P2O5	0.29	W	-3.00	PB	2.00	BI	-0.50	TH	2.00
MNO	0.20	U	1.20						
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.16								
TOTAL	96.36								

COMMENTS : SAMPLE OF URALITE PORPHYRY FOR DATABASE.

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PAGE 1
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SAMPLE ID # AB15722 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB021 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455720.0 N : 5409480.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, EQUIGRANULAR, HORNBLLENDE BEAR
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 28-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	53.50	RB	20.00	SR	590.00	Y	20.00	ZR	50.00
AL2O3	16.60	NB	20.00	BA	370.00	CU	120.00	ZN	40.00
FE2O3	8.70	PB	20.00						
FE0	0.00								
CA0	10.30								
MGO	4.37								
NA2O	3.64								
K2O	0.81								
TIO2	0.65								
P2O5	0.19								
MNO	0.16								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.47								
TOTAL	98.25								

COMMENTS : HORNBLLENDE CRYSTALS (2MM). ROCK IS IN CONTACT WITH A QTZ. PORPHYRY.

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SAMPLE ID # AB15723 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB022 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455740.0 N : 5409520.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, EQUIGRANULAR, HORNBLENDE BEAR
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 28-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	49.20	RB	10.00	SR	430.00	Y	20.00	ZR	30.00
AL2O3	14.30	NB	10.00	BA	180.00	CU	30.00	ZN	60.00
FE2O3	10.40	PB	20.00						
FE0	0.00								
CAO	13.60								
MGO	7.45								
NA2O	1.68								
K2O	0.50								
TIO2	0.58								
P2O5	0.16								
MNO	0.25								
S	0.00								
NIO	0.00								
CR2O3	0.03								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.70								
TOTAL	97.32								

COMMENTS : TOSS UP BETWEEN AN INTRUSIVE AND A HORNBLENDE PHYRIC FLOW.

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PAGE 1
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SAMPLE ID # AB15724 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB023A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455900.0 N : 5409650.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, FINE, MASSIVE.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% .PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 28-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	70.30	RB	30.00	SR	170.00	Y	30.00	ZR	160.00
AL2O3	14.50	NB	30.00	BA	350.00				
FE2O3	3.36								
FE0	0.00								
CA0	1.36								
MGO	1.47								
NA2O	5.90								
K2O	0.89								
TI02	0.38								
P2O5	0.11								
MNO	0.05								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.70								
TOTAL	98.18								

COMMENTS :

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SAMPLE ID # AB15725 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB023B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455900.0 N : 5409650.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, EQUIGRANULAR, MASSIVE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED . SERICITIZATION, WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 28-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	69.30	RB	40.00	SR	210.00	Y	30.00	ZR	160.00
AL2O3	14.80	NR	20.00	BA	530.00				
FE2O3	3.29								
FE0	0.00								
CAO	2.19								
MGO	1.54								
NA2O	5.71								
K2O	0.98								
TIO2	0.41								
P2O5	0.11								
MNO	0.07								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.85								
TOTAL	98.25								

COMMENTS :

REPORT #2000

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SAMPLE ID # AB15726 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB023C PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455900.0 N : 5409650.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, EQUIGRANULAR, MASSIVE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 28-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	62.20	RB	30.00	SR	280.00	Y	50.00	ZR	110.00
AL2O3	16.60	NB	20.00	BA	650.00				
FE2O3	6.71								
FE0	0.00								
CAO	2.53								
MGO	2.46								
NA2O	4.65								
K2O	1.26								
TIO2	0.68								
P2O5	0.18								
MNO	0.10								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.47								
TOTAL	96.91								

COMMENTS :

REPORT #2000

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SAMPLE ID # AB15727 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB024 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455960.0 N : 5410350.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,EQUIGRANULAR,FELDSPAR PORPHYRITIC.L
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 28-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	49.00	RB	20.00	SR	240.00	Y	20.00	ZR	100.00
Al2O3	14.20	NB	30.00	BA	80.00				
Fe2O3	12.40								
FeO	0.00								
CaO	11.70								
MgO	6.57								
Na2O	1.70								
K2O	0.15								
TiO2	1.88								
P2O5	0.18								
MnO	0.20								
S	0.00								
NiO	0.00								
Cr2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.16								
TOTAL	97.10								

COMMENTS : FINE GRAINED FELDSPAR GLOMOROPORPHYRITIC. FELDSPAR AGGREGATES UP TO 3MM IN SIZE.

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SAMPLE ID # AB15728 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB025 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456650.0 N : 5408170.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, COARSE, QUARTZ AND FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 29-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
-----		-----							
SI02	75.00	RB	-10.00	SR	360.00	Y	10.00	ZR	70.00
AL2O3	13.30	NB	10.00	BA	840.00				
FE2O3	1.72								
FE0	0.00								
CAO	2.04								
MGO	0.48								
NA2O	6.31								
K2O	0.31								
TIO2	0.19								
P2O5	0.05								
MNO	0.03								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.62								
TOTAL	99.44								

COMMENTS :

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PAGE 1
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SAMPLE ID # AB15729 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB026 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455500.0 N : 5408200.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 30-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	51.50	RB	30.00	SR	450.00	Y	10.00	ZR	40.00
AL2O3	18.50	NB	10.00	BA	240.00	CU	110.00	ZN	30.00
FE2O3	8.79	PB	10.00						
FE0	0.00								
CA0	6.85								
MGO	5.55								
NA2O	4.84								
K2O	0.17								
TIO2	0.73								
P2O5	0.18								
MNO	0.14								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.85								
TOTAL	96.58								

COMMENTS : MAFIC UNIT IN LARGE O/C OF SALTSRING QTZ. PORPHYRY. MAFIC UNIT HAS A GRITTY TEXTURE. POSSIBLE FLOW.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15730 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB027 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455200.0 N : 5408000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,MASSIVE ,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 30-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SI02	73.90	RB	50.00	SR	110.00	Y	20.00	ZR	170.00
AL2O3	13.70	NB	10.00	BA	990.00				
FE2O3	2.39								
FE0	0.00								
CA0	1.45								
MGO	0.86								
NA2O	5.07								
K2O	1.16								
TIO2	0.21								
P2O5	0.05								
MNO	0.06								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.23								
TOTAL	98.77								

COMMENTS : LARGE, MASSIVE O/C OF A FG WHITE FELSIC ROCK. EPIDOTE ALTERATION IS SPOTTY. NO FELDSPAR OR QTZ. PORPHYRY. MAY BE AN INTRUSIVE OR A FLOW.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15731 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB028 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455070.0 N : 5408000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 30-MAY-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	63.40	RB	30.00	SR	160.00	Y	20.00	ZR	80.00
AL2O3	15.70	NB	30.00	BA	890.00	CU	30.00	ZN	30.00
FE2O3	5.47	PB	10.00						
FE0	0.00								
CAO	2.23								
MGO	2.62								
NA2O	5.20								
K2O	1.18								
TI02	0.52								
P2O5	0.16								
MNO	0.10								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.08								
TOTAL	96.22								

COMMENTS : SERICITE SCHIST. SMALL QTZ. EYES ARE LOCAL. 5% DISSEM. PY. MAYBE A SHEARED INTRUSIVE. OCCURS CLOSE TO O/C OF CHLORITE SCHIST.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15732 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB029 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456100.0 N : 5410700.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, FINE, QUARTZ PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SILICIFICATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 03-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
		RB	SR	Y	ZR				
SI02	75.80	60.00	140.00		-10.00				90.00
AL2O3	13.40	10.00	BA 1360.00						
FE2O3	1.25								
FE0	0.00								
CAO	0.23								
MGO	0.26								
NA2O	4.07								
K2O	3.60								
TIO2	0.13								
P2O5	0.04								
MNO	0.02								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.16								
TOTAL	98.81								

COMMENTS : ROCK IS PROBABLY A QTZ. PORPHYRY SILL. IT'S PROXIMITY TO THE GABBRO AND IT'S SUGARY NATURE SUGGEST RECRYSTALLIZATION.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15733 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB032 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA,
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452500.0 N : 5408730.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,CARBONATIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE PLUS CHALCOPYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 04-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	52.90	KB	40.00	SR	330.00	Y	20.00	ZR	70.00
AL2O3	19.20	NB	20.00	BA	410.00	CU	390.00	ZN	30.00
FE2O3	8.85	PB	-10.00						
FE0	0.00								
CA0	3.36								
MGO	5.57								
NA2O	3.02								
K2O	1.26								
TI02	0.85								
P2O5	0.22								
MNO	0.14								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.47								
TOTAL	94.71								

COMMENTS : ROCK IS A CHLORITE SCHIST WHICH OCCURS AS SHEARED ZONES IN A MORE MASSIVE, MED. GRAINED MAFIC ROCK. PY AND MINOR CPY OCCUR IN BLEBS AND IN CARBONATE VEINLETS.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15734 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB033A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452620.0 N : 5408720.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 04-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	51.30	RB	-10.00	SR	560.00	Y	10.00	ZR	40.00
AL2O3	18.30	NB	20.00	BA	110.00				
FE2O3	9.58								
FE0	0.00								
CAO	6.21								
MGO	5.87								
NA2O	3.54								
K2O	0.03								
TIO2	0.81								
P2O5	0.15								
MNO	0.23								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.16								
TOTAL	95.18								

COMMENTS : MASSIVE MAFIC ROCK WITH MINOR CHLORITE. ROCK HAS FELDSPAR CRYSTALS LESS THAN 1MM. FELDSPAR CRYSTALS MAKE UP 35% OF ROCK. POSSIBLE FLOW OR CRYSTAL TUFF.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15735 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB036 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452000.0 N : 5409460.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,MEDIUM,FELDSPAR PORPHYRITIC.LOOK AT COMM
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 00-???-00
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
		RB	SR	Y	ZR				
SI02	48.60	20.00	240.00	10.00	70.00				
AL2O3	14.60	10.00	90.00						
FE2O3	11.30								
FEO	0.00								
CAO	11.50								
MGO	7.34								
NA2O	2.25								
K2O	0.23								
TIO2	1.54								
P2O5	0.15								
MNO	0.17								
S	0.00								
NIO	0.00								
CR2O3	0.03								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.93								
TOTAL	96.88								

COMMENTS : GABRO.

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PAGE 1
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SAMPLE ID # AB15736 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB034 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452620.0 N : 5408940.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 04-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	57.20	RB	20.00	SR	500.00	Y	10.00	ZR	30.00
AL2O3	16.30	NB	10.00	BA	660.00				
FE2O3	8.42								
FE0	0.00								
CAO	7.25								
MGO	3.93								
NA2O	2.84								
K2O	0.43								
TIO2	0.60								
P2O5	0.14								
MNO	0.20								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.00								
TOTAL	96.67								

COMMENTS : MED. GRAINED VOLCANIC FLOW. FELDSPAR PHYRIC. CRYSTALS LESS THAN OR EQUAL TO 1MM. LOCALIZED EPIDOTE KNOTS.

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SAMPLE ID # AB15737 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB038A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA,
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452680.0 N : 5409420.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,LOOK AT CO
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 04-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	48.90	RB	50.00	SR	370.00	Y	20.00	ZR	20.00
AL2O3	15.80	NB	20.00	BA	310.00				
FE2O3	10.40								
FE0	0.00								
CA0	7.64								
MGO	7.19								
NA2O	2.14								
K2O	1.00								
TIO2	0.62								
P2O5	0.11								
MNO	0.25								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.54								
TOTAL	93.23								

COMMENTS : HORNBLende-FELDSPAR PHYRIC ROCK; CHLORITIZED; MAFIC FLOW.

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PAGE 1
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SAMPLE ID # AB15738 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB038B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452680.0 N : 5409420.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 04-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
-----		-----							
SI02	50.50	RB	30.00	SR	350.00	Y	10.00	ZR	40.00
AL2O3	15.90	NB	20.00	BA	380.00				
FE2O3	10.60								
FE0	0.00								
CA0	7.72								
MGO	7.58								
NA2O	3.37								
K2O	0.97								
TIO2	0.69								
P2O5	0.13								
MNO	0.23								
S	0.00								
NIO	0.00								
CR2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.70								
TOTAL	96.87								

COMMENTS : MASSIVE MAFIC FLOW. HORNBLENDE PORPHYRIES ARE SUBHEDRAL. AVERAGE SIZE IS 2-3MM.

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PAGE 1
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SAMPLE ID # AB15739 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB042 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 457100.0 N : 5407700.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,FELSIC OR LEUCOCRATIC ,FINE,QUARTZ PORPHYRITIC.LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 05-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
		RB	SR	Y	ZR				
SI02	71.30	10.00	290.00		20.00				130.00
AL2O3	14.30	10.00	430.00						
FE2O3	2.82								
FE0	0.00								
CAO	3.13								
MGO	0.91								
NA2O	5.96								
K2O	0.50								
TI02	0.29								
P2O5	0.07								
MNO	0.05								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.83								
TOTAL	99.22								

COMMENTS : PROBABLY A SILL INTRUDING HORNBLLENDE PORPHYRY.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15740 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB045A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456900.0 N : 5409050.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, COARSE, MASSIVE, LOOK AT COMMENTS FI
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 05-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	70.20	RB	20.00	SR	220.00	Y	50.00	ZR	180.00
Al2O3	14.60	NB	10.00	BA	480.00				
Fe2O3	3.41								
FeO	0.00								
CaO	1.63								
MgO	0.89								
Na2O	6.32								
K2O	0.85								
TiO2	0.36								
P2O5	0.10								
MnO	0.05								
S	0.00								
NiO	0.00								
Cr2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.54								
TOTAL	98.26								

COMMENTS : GRANODIORITE IN COMPOSITION.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15741 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB047A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456650.0 N : 5410500.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,FELSIC OR LEUCOCRATIC ,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 06-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	73.10	RB	50.00	SR	230.00	Y	20.00	ZR	120.00
AL2O3	13.80	NB	30.00	BA	1000.00				
FE2O3	2.41								
FEO	0.00								
CAO	2.03								
MGO	0.73								
NA2O	4.52								
K2O	2.23								
TIO2	0.21								
P2O5	0.05								
MNO	0.04								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.23								
TOTAL	99.04								

COMMENTS : QIZ. PORPHYRY. SUGARY TEXTURE; RECRYSTALLIZED SILL.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15742 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB047C PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456650.0 N : 5410500.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, QUARTZ PORPHYRITIC, LOOK AT C
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 06-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	71.30	RB	70.00	SK	200.00	Y	20.00	ZR	110.00
AL2O3	13.80	NB	10.00	BA	890.00				
FE2O3	3.03								
FE0	0.00								
CA0	1.91								
MGO	0.89								
NA2O	4.87								
K2O	2.29								
TIO2	0.26								
P2O5	0.07								
MNO	0.07								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.00								
TOTAL	98.35								

COMMENTS : QTZ. PORPHYRITIC. LOOKS LIKE RECRYSTALLIZATION HAS OCCURED. CONTAINS XENOLITHS UP TO 1.5M IN SIZE. COMP. OF XENDS APPEARS SIMILAR TO GROUNDMASS. THIS IS A SAMPLE OF THE GROUNDMASS.

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PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15743 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB047D PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456650.0 N : 5410500.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE , FINE , LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL , NIL , NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 06-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)			
SI02	67.60	RB	60.00	SR	270.00	Y	30.00	ZR	90.00
AL2O3	14.80	NB	10.00	BA	580.00				
FE2O3	4.50								
FE0	0.00								
CA0	2.85								
MGO	1.34								
NA2O	5.25								
K2O	1.77								
TIO2	0.39								
P2O5	0.10								
MNO	0.10								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.47								
TOTAL	98.43								

COMMENTS : SAMPLE FRAGMENT FROM INTRUSIVE ROCK. FRAGMENT OR XENOLITH IS SIMILAR IN
 COMP. TO 047C. FRAGMENTS ARE ROUNDED. NO ALTERED RIMS.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15744 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB047F PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456650.0 N : 5410500.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, FINE, QUARTZ PORPHYRITIC, LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 06-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	70.00	RB	80.00	SR	230.00	Y	-10.00	ZR	90.00
AL2O3	14.00	NB	20.00	BA	1110.00				
FE2O3	3.68								
FE0	0.00								
CAO	1.86								
MGO	0.86								
NA2O	4.03								
K2O	2.41								
TIO2	0.35								
P2O5	0.10								
MNO	0.07								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.54								
TOTAL	97.17								

COMMENTS : QIZ. PORPHYRY. SLIGHTLY DIFFERENT THAN OTHER QIZ. PORPHS. A LITTLE DARKER IN COLOUR AND ON THE FRESH SURFACE THERE ARE WISPY BLACK STREAKS.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15745 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB049A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451820.0 N : 5410650.0 EL : 0.0'
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS.<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	70.30	KB	-10.00	SR	230.00	Y	-10.00	ZR	90.00
AL2O3	14.20	NB	30.00	BA	280.00				
FE2O3	2.57								
FE0	0.00								
CA0	0.58								
MGO	3.61								
NA2O	5.98								
K2O	0.42								
TIO2	0.29								
P2O5	0.08								
MNO	0.07								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.00								
TOTAL	98.01								

COMMENTS : QIZ. PORPHYRY LYING TOPOGRAPHICALLY BELOW A MAFIC PYROCLASTIC UNIT. THIS SAMPLE IS A POSSIBLE CRYSTAL TUFF.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15746 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB049B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451820.0 N : 5410650.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,BLOCK ,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,LOOK
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	50.50	RB	10.00	SR	360.00	Y	20.00	ZR	30.00
AL2O3	19.00	NB	20.00	BA	200.00				
FE2O3	9.72								
FE0	0.00								
CAO	5.62								
MGO	5.46								
NA2O	4.81								
K2O	0.20								
TI02	0.73								
P2O5	0.16								
MNO	0.20								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.77								
TOTAL	95.64								

COMMENTS : PYROCLASTIC. FRAGMENTS FROM 2 TO 12CM. FRAGMENTS ARE FELDSPAR PHYRIC AND CONTAIN HORNBLLENDE CRYSTALS. FRAGMENTS ARE LENTICULAR IN SHAPE. THIS SAMPLE IS OF THE GROUNDMASS WHICH IS FELDSPAR PHYRIC.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15747 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB051 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451900.0 N : 5410350.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COM
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
-----		-----							
SI02	53.20	RB	20.00	SR	550.00	Y	10.00	ZR	30.00
AL2O3	17.60	NB	20.00	BA	200.00				
FE2O3	9.28								
FE0	0.00								
CA0	6.69								
MGO	4.33								
NA2O	4.17								
K2O	0.22								
TIO2	0.66								
P2O5	0.14								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.47								
TOTAL	95.79								

COMMENTS : POSSIBLY BLOCK SIZED FRAGMENTS. ROCK IS FELDSPAR PHYRIC. FELDSPAR CRYSTALS ARE 1MM IN SIZE. IT COULD BE A FLOW BUT MORE LIKELY A TUFF.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15748 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB053 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451820.0 N : 5410240.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,MASSIVE ,MATRIX SUPPORTED,LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	53.40	RB	30.00	SR	380.00	Y	10.00	ZR	30.00
AL2O3	16.30	NB	20.00	BA	200.00				
FE2O3	9.22								
FeO	0.00								
CaO	6.65								
MgO	4.89								
Na2O	3.79								
K2O	0.36								
TiO2	0.63								
P2O5	0.13								
MnO	0.21								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.70								
TOTAL	94.86								

COMMENTS : NORTH END OF O/C IS FELDSPAR PHYRIC; SOUTH END IS FELDSPAR PHYRIC WITH FRAGMENTS. QUARTZ PORPHYRY CUTS THE O/C.

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PAGE 1
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SAMPLE ID # AB15749 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117KB054 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451830.0 N : 5410070.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,MAFIC PORPHYRITIC .LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

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

SI02	50.90	RB	30.00	SR	240.00	Y	10.00	ZR	10.00
AL2O3	14.10	NB	20.00	BA	190.00				
FE2O3	9.52								
FE0	0.00								
CA0	7.90								
MGO	9.65								
NA2O	3.76								
K2O	0.22								
TIO2	0.55								
P2O5	0.10								
MNO	0.33								
S	0.00								
NIO	0.00								
CR2O3	0.03								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.77								
TOTAL	96.31								

COMMENTS : HORNBLENDE PHYRIC MAFIC FLOW. HORNBLENDE CRYSTALS ARE 1-1.5MM AND ACCOUNT FOR 2-3%.

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SAMPLE ID # AB15750 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB055 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451580.0 N : 5409960.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)
SI02	64.70	RB 10.00 SR 240.00	Y 10.00 ZR 90.00
AL2O3	15.80	NB 20.00 BA 290.00	
FE2O3	5.21		
FE0	0.00		
CAO	2.42		
MGO	2.78		
NA2O	6.10		
K2O	0.39		
TIO2	0.46		
P2O5	0.12		
MNO	0.10		
S	0.00		
NIO	0.00		
CR2O3	0.00		
CO2	0.00		
H2O+	0.00		
CO2	0.00		
H2O+	0.00		
H2O-	0.00		
LOI	1.93		
TOTAL	97.74		

COMMENTS :

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SAMPLE ID # AB15751 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB056 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451550.0 N : 5409850.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	53.40	RB	20.00	SK	330.00	Y	10.00	ZR	60.00
AL2O3	18.00	NB	20.00	BA	140.00				
FE2O3	8.75								
FE0	0.00								
CA0	4.81								
MGO	5.51								
NA2O	4.76								
K2O	0.19								
TIO2	0.67								
P2O5	0.23								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.77								
TOTAL	95.86								

COMMENTS : MASSIVE MAFIC ROCK. NO FRAGMENTS. FELDSPAR-PHYRIC. LOOKS LIKE A FLOW.

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SAMPLE ID # AB15752 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117KB057 PROJECT # 1116
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
 UTM ZONE : 10
 GRID COORDINATES : E : 451600.0 N : 5409600.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PLUS FELDSPAR PORPHYRITIC.MASSIVE ,LOOK AT
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	72.30	RB	30.00	SR	170.00	Y	30.00	ZR	110.00
Al2O3	14.10	NB	20.00	BA	660.00				
Fe2O3	2.34								
FeO	0.00								
CaO	1.78								
MgO	1.17								
Na2O	5.48								
K2O	1.11								
TiO2	0.27								
P2O5	0.07								
MnO	0.05								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.62								
TOTAL	98.60								

COMMENTS : QTZ-FELDSPAR PORPHYRY. QTZ. EYES MAKE UP 3-5% OF ROCK. FELDSPAR CRYSTALS AVERAGE 1MM, MAKE UP 10% OF ROCK. POSSIBLE LAPILLI FRAGMENT, ONLY ONE OBSERVED. PROBABLY A CRYSTAL TUFF.

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

] REPORT #2000

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SAMPLE ID # AB15753

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86117KD000
LOT : 0 CONCESSION :

PROJECT # 1117
PROVINCE : BRITISH COLUMBIA
PROJECT : PF OPTION

GRID COORDINATES : E : 456600.0 N : 5410590.0 EL : 0.0

FIELD NAME : IGNEOUS ,FELSIC,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENTS FILE ,TECTONIZED.

FINAL NAME :

ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.

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

SAMPLED BY : K. BOOTH.
ANALYZED BY : XRAL

DATE : 05-JUN-86
DATE : 08-JUL-86

ANALYTICAL
TECHNIQUE : ATOMIC ABSORPTION

COMMENTS : SHEARED QTZ. PORPHYRY. FROM GRAVES PT. NAVIGATIONAL MARKER.

PF OPTION - 1986 SAMPLE ANALYZED FOR BASE METALS ONLY

SAMP NO.-> AB15753

CU 36.00
PB 8.00
ZN 28.00

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SAMPLE ID # AB15754 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB077 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452500.0 N : 5408800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE, FELDSPAR PORPHYRITIC. LOOK AT COMM
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 19-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	51.30	RB	20.00	SR	410.00	Y	20.00	ZR	50.00
AL2O3	18.40	NB	20.00	BA	70.00	CU	10.00	PB	30.00
FE2O3	10.00	ZN	20.00						
FEO	0.00								
CAO	6.51								
MGO	5.10								
NA2O	3.50								
K2O	0.16								
TIO2	0.94								
P2O5	0.20								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	95.52								

COMMENTS : OVERALL ROCK IS A FINE TO MEDIUM GRAINED, FELDSPAR-PHYRIC INTERMEDIATE FLOW. HOWEVER IN PLACES IT IS MORE SCHISTOSE. 2% DISSEMINATED PY PRESENT.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15755 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB080 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452200.0 N : 5408800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,MAGNETITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 19-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	50.00	RB	-10.00	SR	400.00	Y	40.00	ZR	170.00
AL2O3	14.90	NB	10.00	BA	90.00				
FE2O3	14.00								
FE0	0.00								
CA0	7.58								
MGO	4.75								
NA2O	2.22								
K2O	0.03								
TIO2	2.27								
P2O5	0.35								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.85								
TOTAL	95.27								

COMMENTS : MAFIC FLOW WITH 3% DISSEMINATED MAGNETITE.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:03:13

SAMPLE ID # AB15756 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB081 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451800.0 N : 5409050.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : NIL ,NIL ,LOOK AT COMMENTS FILE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 19-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	50.00	RB	30.00	SR	350.00	Y	30.00	ZR	180.00
AL2O3	14.60	NB	20.00	BA	80.00				
FE2O3	14.00								
FE0	0.00								
CAO	7.88								
MGO	5.15								
NA2O	1.54								
K2O	0.04								
TIO2	2.32								
P2O5	0.34								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.00								
TOTAL	95.08								

COMMENTS : FINE GRAINED MAFIC FLOW. MAGNETIC ALTHOUGH MAGNETITE IS NOT VISIBLE WITH THE NAKED EYE. THIS ROCK OCCURS IN AN O/C CONSISTING MOSTLY OF FELDSPAR-PHYRIC MAFIC MATERIAL.

REPORT #2000

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SAMPLE ID # AB15757 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB082 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451700.0 N : 5409050.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, MASSIVE , LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, WEAK.
 MINERALIZATION : NIL , NIL , LOOK AT COMMENTS FILE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 19-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	48.90	RB	20.00	SR	390.00	Y	10.00	ZR	-10.00
AL2O3	14.20	NB	10.00	BA	30.00				
FE2O3	12.60								
FEO	0.00								
CAO	10.60								
MGO	3.94								
NA2O	1.92								
K2O	0.04								
TIO2	2.13								
P2O5	0.30								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.54								
TOTAL	93.96								

COMMENTS : FINE TO MED. GRAINED MAFIC FLOW. SIMILAR TO KB081 AND KB080. THIS ROCK IS SLIGHTLY MORE INTERMED. IN COMPOSITION. MAGNETIC BUT MAGNETITE IS NOT VISIBLE.

REPORT #2000

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SAMPLE ID # AB15758 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB058 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 450500.0 N : 5409170.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 10-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	46.20	RB	20.00	SR	390.00	Y	10.00	ZR	-10.00
AL2O3	12.80	NB	10.00	BA	30.00				
FE2O3	11.30								
FE0	0.00								
CA0	14.20								
MGO	10.50								
NA2O	0.28								
K2O	0.04								
TIO2	0.55								
P2O5	0.10								
MNO	0.37								
S	0.00								
NIO	0.00								
CR2O3	0.06								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.16								
TOTAL	95.47								

COMMENTS : MODERATELY SHEARED HORNBLLENDE PORPHYRY. HORNBLLENDE CRYSTALS AVERAGE 4MM AND MAKE UP 5% OF ROCK.

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 PRINTED 19-MAR-87
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SAMPLE ID # AB15759 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB059 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451000.0 N : 5409200.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, MODERATE.
 MINERALIZATION : NIL , NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 10-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	51.00	RB	10.00	SR	470.00	Y	20.00	ZR	50.00
AL2O3	17.50	NB	30.00	BA	70.00				
FE2O3	9.76								
FEO	0.00								
CAO	8.54								
MGO	5.31								
NA2O	2.48								
K2O	0.09								
TIO2	0.87								
P2O5	0.20								
MNO	0.26								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	95.26								

COMMENTS : FINE TO MED. GRAINED FELDSPAR-PHYRIC VOLCANIC. EPIDOTE IN KNOTS. NEAR A CONTACT WITH GABBRO.

REPORT #2000

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 PRINTED 19-MAR-87
 10:05:48

SAMPLE ID # AB15760 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB060 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451000.0 N : 5409200.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, TECTONIZED, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 10-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	45.70	RB	40.00	SR	340.00	Y	30.00	ZR	50.00
AL2O3	20.10	NB	10.00	BA	1040.00				
FE2O3	11.10								
FE0	0.00								
CA0	4.43								
MGO	5.81								
NA2O	3.59								
K2O	1.43								
TIO2	0.98								
P2O5	0.21								
MNO	0.20								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.39								
TOTAL	92.68								

COMMENTS : MODERATELY SHEARED ANDESITIC ROCK. NEAR A GABBRO. 3% DISSEMINATED PY.

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 PRINTED 19-MAR-87
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SAMPLE ID # AB15761 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB061 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451500.0 N : 5409000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 10-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	53.70	RB	10.00	SR	580.00	Y	30.00	ZR	40.00
AL2O3	18.20	NB	20.00	BA	140.00				
FE2O3	8.20								
FE0	0.00								
CA0	9.44								
MGO	4.23								
NA2O	2.17								
K2O	0.12								
TIO2	0.63								
P2O5	0.14								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.31								
TOTAL	96.42								

COMMENTS :

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SAMPLE ID # AB15762 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB062 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451200.0 N : 5409000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE, MAFIC PORPHYRITIC, LOOK AT COMMEN
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 10-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	51.20	RB	-10.00	SR	370.00	Y	10.00	ZR	30.00
AL2O3	17.70	NB	10.00	BA	130.00				
FE2O3	9.28								
FEO	0.00								
CAO	8.06								
MGO	5.58								
NA2O	3.99								
K2O	0.11								
TIO2	0.75								
P2O5	0.17								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.00								
TOTAL	96.39								

COMMENTS : HORNBLende AND FELDSPAR-PHYRIC. HORNBLende AVERAGES 1-2MM. ROCK HAS A GRITTY TEXTURE POSSIBLY INDICATING A VOLCANICLASTIC ORIGIN.

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PAGE 1
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SAMPLE ID # AB15763 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB063 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451000.0 N : 5409000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE, MAFIC PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, MODERATE.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 10-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	52.00	RB	10.00	SR	300.00	Y	20.00	ZR	70.00
AL2O3	17.30	NB	30.00	BA	180.00				
FE2O3	9.17								
FE0	0.00								
CA0	5.63								
MGO	6.76								
NA2O	3.99								
K2O	0.20								
TIO2	0.78								
P2O5	0.21								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	95.58								

COMMENTS : SIMILAR TO KB062. FELDSPAR AND HORNBLende-PHYRIC. GRITTY TEXTURE.
 EPIDOTE KNOTS UP TO 3CM.

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SAMPLE ID # AB15764 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB064 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455325.0 N : 5409055.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, MASSIVE, MATRIX SUPPORTED, LOOK AT C
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, MODERATE.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	53.10	RB	40.00	SR	480.00	Y	20.00	ZR	40.00
AL2O3	17.60	NB	40.00	BA	550.00				
FE2O3	9.12								
FE0	0.00								
CA0	6.14								
MGO	4.63								
NA2O	4.18								
K2O	1.05								
TIO2	0.73								
P2O5	0.22								
MNO	0.16								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.93								
TOTAL	96.23								

COMMENTS : SAMPLE IS OF MATRIX. IT IS MASSIVE, FINE GRAINED, GRITTY. CHLORITIZED LAPILLIS AVERAGE 15MM.

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SAMPLE ID # AB15765 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB065 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454810.0 N : 5408805.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, MASSIVE, MATRIX SUPPORTED, LOOK AT C
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, MODERATE.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	53.50	RB	20.00	SR	380.00	Y	10.00	ZR	40.00
AL2O3	17.50	NB	20.00	BA	140.00				
FE2O3	8.30								
FE0	0.00								
CA0	5.88								
MGO	4.83								
NA2O	4.53								
K2O	0.12								
TIO2	0.69								
P2O5	0.16								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	95.07								

COMMENTS : FELDSPAR-PHYRIC FRAGMENTAL. CHLORITIZED FRAGMENTS AVERAGE 10MM. FELDSPAR CRYSTALS EQUAL 30%.

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SAMPLE ID # AB15766 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB066 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454920.0 N : 5408700.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,TECTONIZED,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	50.30	RB	10.00	SR	410.00	Y	-10.00	ZR	60.00
Al2O3	18.70	NB	20.00	BA	200.00				
Fe2O3	9.29								
FeO	0.00								
CaO	5.00								
MgO	5.39								
Na2O	4.99								
K2O	0.19								
TiO2	0.90								
P2O5	0.18								
MnO	0.19								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.85								
TOTAL	94.43								

COMMENTS : O/C IS MOSTLY A SCHISTOSE FELDSPAR-PHYRIC MAFIC VOLCANIC. SOME AREAS ARE MORE MASSIVE.

REPORT #2000

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SAMPLE ID # AB15767 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB067 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454880.0 N : 5408670.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,MAGNETITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	49.30	RB	60.00	SR	480.00	Y	20.00	ZR	150.00
AL2O3	15.20	NB	20.00	BA	600.00				
FE2O3	14.00								
FEO	0.00								
CAO	7.87								
MGO	4.11								
NA2O	2.30								
K2O	1.38								
TIO2	1.98								
P2O5	0.32								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.85								
TOTAL	95.64								

COMMENTS : MASSIVE MAFIC FLOW WITH 3% DISSEMINATED, EUBEDRAL MAGNETITE. CRYSTALS ARE LESS THAN 1MM.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15768 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB068A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456200.0 N : 5408000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : K. BOOTH. DATE : 12-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	52.60	RB	20.00	SR	350.00	Y	20.00	ZR	20.00
AL2O3	15.70	NB	20.00	BA	170.00				
FE2O3	7.78								
FeO	0.00								
CaO	9.67								
MgO	6.77								
Na2O	3.92								
K2O	0.32								
TiO2	0.63								
P2O5	0.11								
MnO	0.13								
S	0.00								
NiO	0.00								
CR2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.31								
TOTAL	97.08								

COMMENTS : HORNBLLENDE PORPHYRITIC. FAIRLY MASSIVE. HORNBLLENDE PORPHYRIES AVERAGE 2MM, SUBHEDRAL. MINOR FRAGMENTS PRESENT, AVERAGE SIZE 7CM BUT AS LARGE AS 30CM.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:12:16

SAMPLE ID # AB15769 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB0688 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456200.0 N : 5408000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE, MAFIC PORPHYRITIC, LOOK AT COMMEN
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 12-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	52.50	RB	20.00	SR	350.00	Y	10.00	ZR	20.00
AL2O3	16.70	NB	10.00	BA	120.00				
FE2O3	8.56								
FE0	0.00								
CA0	8.39								
MGO	5.75								
NA2O	4.70								
K2O	0.18								
TIO2	0.65								
P2O5	0.12								
MNO	0.14								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.23								
TOTAL	97.06								

COMMENTS : OCCURS 30M N. OF KB068A. THIS ROCK IS ALSO HORNBLLENDE PORPHYRITIC BUT NO FRAGMENTS WERE SEEN.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15770 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB072 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456470.0 N : 5408100.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MAFIC PORPHYRITIC , GNEISSIC, LOOK AT COMMEN
 FINAL NAME :
 ALTERATION : SPOTS , EPIDOTIZATION , WEAK.
 MINERALIZATION : NIL , NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 12-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	47.20	RB	10.00	SR	400.00	Y	-10.00	ZR	10.00
AL2O3	16.40	NB	20.00	BA	50.00				
FE2O3	11.20								
FeO	0.00								
CaO	14.20								
MgO	5.57								
Na2O	2.05								
K2O	0.17								
TiO2	0.64								
P2O5	0.13								
MnO	0.21								
S	0.00								
NiO	0.00								
CR2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.31								
TOTAL	96.88								

COMMENTS : MASSIVE HORNBLLENDE-FELDSPAR PORPHYRITIC INTERMEDIATE VOLCANIC. POSSIBLE FLOW. QTZ. PORPHYRY CUTS THE OUTCROP.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15771 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB073 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456470.0 N : 5408100.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, MAEIC , FINE, MASSIVE , FELDSPAR PORPHYRITIC, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 12-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	52.80	RB	10.00	SR	220.00	Y	40.00	ZR	50.00
AL2O3	17.50	NB	20.00	BA	140.00				
FE2O3	10.10								
FEO	0.00								
CAO	2.75								
MGO	5.52								
NA2O	5.13								
K2O	0.17								
TIO2	0.70								
P2O5	0.22								
MNO	0.27								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.08								
TOTAL	94.36								

COMMENTS : MASSIVE FINE TO MED. GRAINED MAEIC FLOW, 13% DISSEMINATED PY.
 FELDSPAR-PHYRIC. CRYSTALS AVERAGE 1-2MM.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15772 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB079 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452200.0 N : 5408860.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE, FELDSPAR PORPHYRITIC, LOOK AT COMM
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 19-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	49.80	RB	20.00	SR	650.00	Y	20.00	ZR	50.00
AL2O3	19.20	NB	30.00	BA	70.00				
FE2O3	8.87								
FEO	0.00								
CAO	8.26								
MGO	4.18								
NA2O	3.58								
K2O	0.11								
TI02	0.86								
P2O5	0.18								
MNO	0.25								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.77								
TOTAL	94.63								

COMMENTS : FELDSPAR-PHYRIC INTERMEDIATE VOLCANIC. IN PLACES THERE ARE SMALL LENSES OF QTZ. PORPHYRY. LENSES MAY BE FRAGMENTS? OVERALL ROCK HAS A GRITTY TEXTURE.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15773 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB083 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452370.0 N : 5408800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, MASSIVE, FELDSPAR PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SILICIFICATION, LOOK AT COMMENTS.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	52.90	KB	-10.00	SR	360.00	Y	20.00	ZR	60.00
AL2O3	17.80	NB	20.00	BA	120.00	CU	160.00	PB	50.00
FE2O3	9.22	ZN	10.00						
FEO	0.00								
CAO	4.74								
MGO	4.96								
NA2O	4.30								
K2O	0.11								
TIO2	0.88								
P2O5	0.17								
MNO	0.19								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.08								
TOTAL	94.57								

COMMENTS : FINE TO MED. GRAINED INTERMEDIATE VOLCANIC. FELDSPAR-PHYRIC. MINOR CHLORITE. ROCK LOOKS SLIGHTLY SILICIFIED.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15774 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB084A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452370.0 N : 5408780.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED .SILICIFICATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	48.90	RB	10.00	SR	270.00	Y	20.00	ZR	60.00
AL2O3	18.10	NB	10.00	BA	130.00	CU	740.00	PB	100.00
FE2O3	10.60	ZN	20.00						
FE0	0.00								
CAO	3.45								
MGO	7.25								
NA2O	3.75								
K2O	0.12								
TI02	0.71								
P2O5	0.15								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.77								
TOTAL	92.42								

COMMENTS : ROCK IS A CHLORITE SCHIST. LOOKS SILICIFIED IN PLACES.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:16:06

SAMPLE ID # AB15775 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB084B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452370.0 N : 5408780.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SILICIFICATION, LOOK AT COMMENTS.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SiO2	56.00	RB	50.00	SR	290.00	Y	-10.00	ZR	60.00
Al2O3	17.00	NB	10.00	BA	320.00	CU	80.00	PB	30.00
Fe2O3	8.23	ZN	20.00						
FeO	0.00								
CaO	2.66								
MgO	4.49								
Na2O	3.81								
K2O	1.10								
TiO2	0.78								
P2O5	0.19								
MnO	0.13								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.31								
TOTAL	93.78								

COMMENTS : ON THE WEATHERED SURFACE LOOKS FELDSPAR-PHYRIC. POSSIBLE CRYSTAL TUFF.
 LOOKS SILICIFIED.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15776 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB085 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452350.0 N : 5408710.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
		RB	SR	Y	ZR				
SI02	48.80	10.00	330.00	30.00	180.00				
AL2O3	14.20	20.00	80.00						
FE2O3	12.30								
FE0	0.00								
CAO	6.94								
MGO	4.33								
NA2O	2.69								
K2O	0.04								
TIO2	2.08								
P2O5	0.36								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.47								
TOTAL	91.07								

COMMENTS : MASSIVE MAFIC FLOW. LESS PYRITIC THAN THE TWO PREVIOUS OUTCROPS.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15777 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB086A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452310.0 N : 5408680.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, TECTONIZED, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	51.20	RB	20.00	SR	230.00	Y	10.00	ZR	60.00
AL2O3	17.80	NB	20.00	BA	360.00	CU	140.00	PB	90.00
FE2O3	8.42	ZN	10.00						
FE0	0.00								
CAO	4.36								
MGO	6.95								
NA2O	3.85								
K2O	0.64								
TIO2	0.82								
P2O5	0.18								
MNO	0.16								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.16								
TOTAL	93.78								

COMMENTS : SOMEWHAT MASSIVE ALTHOUGH CHLORITE IS MODERATELY DEVELOPED. PY EQUALS 3%.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15778 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB086B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452310.0 N : 5408680.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, TECTONIZED, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	43.40	RB	30.00	SR	190.00	Y	20.00	ZR	40.00
AL2O3	19.40	NB	30.00	BA	400.00	CU	170.00	PB	70.00
FE2O3	12.60	ZN	10.00						
FE0	0.00								
CA0	3.10								
MGO	8.55								
NA2O	3.13								
K2O	0.84								
TIO2	0.89								
P2O5	0.15								
MNO	0.20								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	6.62								
TOTAL	91.25								

COMMENTS : SOUTHERN END OF OUTCROP WHERE KB086A WAS TAKEN FROM. THIS SAMPLE IS SLIGHTLY MORE CHLORITIC.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:18:39

SAMPLE ID # AB15779 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB087A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452280.0 N : 5408620.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE , LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, SPHALERITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
		RB	SR	Y	ZR				
SiO2	51.60	10.00	520.00	20.00	20.00				
Al2O3	17.50	10.00	100.00						
Fe2O3	7.50								
FeO	0.00								
CaO	8.25								
MgO	5.69								
Na2O	3.05								
K2O	0.06								
TiO2	0.73								
P2O5	0.18								
MnO	0.19								
S	0.00								
NiO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.70								
TOTAL	94.23								

COMMENTS : LOOKS LIKE AN ANDESITIC FLOW.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:19:17

SAMPLE ID # AB15780 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB087B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452280.0 N : 5408620.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE .SERICITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	73.60	RB	20.00	SR	290.00	Y	10.00	ZR	90.00
AL2O3	13.50	NB	20.00	BA	1180.00				
FE2O3	1.96								
FEO	0.00								
CAO	1.93								
MGO	1.08								
NA2O	4.86								
K2O	0.73								
TIO2	0.25								
P2O5	0.07								
MNO	0.04								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.62								
TOTAL	98.01								

COMMENTS : 8 METRE WIDE ZONE OF FELSIC VOLCANIC. POSSIBLE FELDSPAR LATHS EVIDENT,
 <1M.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:19:55

SAMPLE ID # AB15781 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB087C PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452280.0 N : 5408620.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MASSIVE , LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE , SILICIFICATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	59.50	RB	-10.00	SR	410.00	Y	30.00	ZR	80.00
AL2O3	17.30	NB	30.00	BA	210.00				
FE2O3	6.45								
FEO	0.00								
CAO	3.92								
MGO	3.74								
NA2O	5.01								
K2O	0.19								
TI02	0.63								
P2O5	0.15								
MNO	0.14								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.00								
TOTAL	96.59								

COMMENTS : LOWER END OF OUTCROP WHERE KB087A/B WERE TAKEN FROM. THIS ROCK IS PROBABLY A FLOW.

REPORT #2000

PAGE 1
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 10:20:34

SAMPLE ID # AB15782 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB088 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452150.0 N : 5408600.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, COARSE, MASSIVE, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
		RB	SR	Y	ZR				
SiO2	51.20	10.00	650.00	10.00	20.00				
Al2O3	18.70	10.00	150.00						
Fe2O3	7.76								
FeO	0.00								
CaO	8.93								
MgO	4.58								
Na2O	2.94								
K2O	0.18								
TiO2	0.82								
P2O5	0.17								
MnO	0.20								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.70								
TOTAL	94.92								

COMMENTS :

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:21:12

SAMPLE ID # AB15783 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB089A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452150.0 N : 5408680.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
		RB	SR	Y	ZR		
SI02	78.30	20.00	250.00		-10.00		70.00
AL2O3	11.10	10.00	630.00				
FE2O3	1.43						
FEO	0.00						
CAO	1.51						
MGO	0.97						
NA2O	5.11						
K2O	0.23						
TIO2	0.16						
P2O5	0.04						
MNO	0.04						
S	0.00						
NIO	0.00						
CR2O3	0.01						
CO2	0.00						
H2O+	0.00						
CO2	0.00						
H2O+	0.00						
H2O-	0.00						
LOI	1.08						
TOTAL	98.90						

COMMENTS : QTZ. PORPHYRIES ARE 1MM OR LESS. POSSIBLE CRYSTAL TUFF.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:21:50

SAMPLE ID # AB15784 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117KB089B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452150.0 N : 5408680.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,TECTONIZED,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 21-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
		RB	SR	Y	ZR				
SI02	45.10	-10.00	190.00		-10.00				10.00
AL2O3	11.70	20.00	70.00						
FE2O3	13.00								
FE0	0.00								
CA0	8.86								
MGO	13.70								
NA2O	0.17								
K2O	0.04								
TI02	0.54								
P2O5	0.12								
MNO	0.50								
S	0.00								
NIO	0.00								
CR2O3	0.07								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.08								
TOTAL	92.70								

COMMENTS : HORNBLende PORPHYRY. MODERATE SCHISTOSITY. THIS ROCK OCCURS BETWEEN FELDSPAR-PHYRIC ROCK.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15785 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117KB090A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456700.0 N : 5408200.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : K. BOOTH. DATE : 22-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	48.40	RB	10.00	SR	260.00	Y	20.00	ZR	160.00
AL2O3	13.50	NB	20.00	BA	90.00				
FE2O3	14.20								
FE0	0.00								
CA0	9.92								
MGO	5.15								
NA2O	1.67								
K2O	0.30								
TIO2	2.74								
P2O5	0.26								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.54								
TOTAL	95.36								

COMMENTS : OCCURS IN CONTACT WITH HORNBLLENDE PORPHYRY AND QTZ. PORPHYRY.

REPORT #2000

PAGE 1
 PRINTED 20-MAR-87
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SAMPLE ID # AB15786 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 24047 FIELD NUMBER : 86117KB091 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 457100.0 N : 5407800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 26-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	51.90	RB	-10.00	SR	480.00	Y	20.00	ZR	40.00
Al2O3	16.70	NB	20.00	BA	150.00				
Fe2O3	7.41								
FeO	0.00								
CaO	11.40								
MgO	5.87								
Na2O	3.93								
K2O	0.18								
TiO2	0.72								
P2O5	0.18								
MnO	0.13								
S	0.00								
NiO	0.00								
Cr2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.77								
TOTAL	97.92								

COMMENTS : HORNBLENDE PORPHYRY FROM PT. AT MAPLE BAY. FRAGMENTS PRESENT. MAY BE AN ASH FLOW OR A LAVA FLOW.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15787 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 24047 FIELD NUMBER : 86117KB092 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 457100.0 N : 5407700.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,MAFIC PORPHYRITIC .LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 26-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
		RB	SR	Y	ZR				
SI02	50.00	10.00	380.00		10.00				40.00
AL2O3	15.90	20.00	100.00						
FE2O3	10.10								
FE0	0.00								
CAO	11.50								
MGO	6.64								
NA2O	2.80								
K2O	0.16								
TIO2	0.71								
P2O5	0.16								
MNO	0.14								
S	0.00								
NIO	0.00								
CR2O3	0.03								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.08								
TOTAL	97.35								

COMMENTS : 100 METRES SOUTH OF KB091. SAME ROCK. THIS SAMPLE IS BEING USED AS A CHECK ON CHEMISTRY OF NITINAT.

REPORT #2000

PAGE 1
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SAMPLE ID # AB15788 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24047 FIELD NUMBER : 86117KB093 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092813 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456700.0 N : 5408200.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,FELSIC OR LEUCOCRATIC ,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH. DATE : 27-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)							
SI02	72.00	RB	10.00	SR	310.00	Y	10.00	ZR	110.00
AL2O3	14.20	NB	20.00	BA	640.00				
FE2O3	2.51								
FE0	0.00								
CA0	1.95								
MGO	0.98								
NA2O	5.80								
K2O	0.99								
TIO2	0.27								
P2O5	0.06								
MNO	0.05								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.23								
TOTAL	98.75								

COMMENTS : SAMPLE IS FROM MAPLE BAY POWER LINE UNDER THE SEVEN TOWERS. LOOKS LIKE A POSSIBLE SILL.

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

REPORT #2000

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SAMPLE ID # AB15808 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117PW011A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454480.0 N : 5410800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, MASSIVE, LOOK AT COMMENTS FI
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-SZ, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 27-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE : PLASMA EMISSION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	64.80	KB	20.00	SR	420.00	Y	50.00	ZR	140.00
AL2O3	15.50	NB	20.00	BA	470.00	AU	-10.00	LI	10.00
FE2O3	5.12	BE	-10.00	B	20.00	SC	14.30	V	70.00
FE0	0.00	CR	90.00	MN	870.00	CO	2.00	NI	6.00
CAO	4.35	CU	14.00	ZN	83.00	GE	-10.00	AS	-2.00
MGO	1.61	SE	-3.00	BR	1.00	MO	-5.00	AG	-0.50
NA2O	4.81	CD	-0.20	SB	0.70	CS	-0.70	LA	16.50
K2O	0.57	CE	36.00	ND	15.00	SM	4.20	EU	0.90
TIO2	0.52	YB	4.00	LU	0.69	HF	4.00	TA	1.00
P2O5	0.14	W	6.00	PB	2.00	BI	-0.50	TH	4.10
MNO	0.13	U	2.20						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.93								
TOTAL	97.23								

COMMENTS : ROCK HAS INDISTINCT CONTACT, POSSIBLY GRADATIONAL TO A MORE SILICEOUS, IGNEOUS ROCK TO WEST END OF OUTCROP.

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

REPORT #2000

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SAMPLE ID # AB15809 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117PW011B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454480.0 N : 5410800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,MASSIVE ,IN SITU BRECCIATED,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 27-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE : PLASMA EMISSION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	64.60	RB	40.00	SR	200.00	Y	20.00	ZR	130.00
Al2O3	14.00	NB	20.00	BA	350.00	AU	-10.00	LI	-10.00
Fe2O3	6.79	BE	-10.00	B	30.00	SC	11.50	V	50.00
FeO	0.00	CR	96.00	MN	430.00	CO	8.00	NI	4.00
CaO	1.45	CU	5.50	ZN	32.00	GE	10.00	AS	2.00
MgO	1.83	SE	4.00	BR	-1.00	MO	-5.00	AG	-0.50
Na2O	5.39	CD	-0.20	SB	0.20	CS	-0.80	LA	10.90
K2O	0.77	CE	25.00	ND	12.00	SM	3.10	EU	0.70
TiO2	0.45	YB	3.10	LU	0.55	HF	3.00	TA	-1.00
P2O5	0.10	W	5.00	PB	-2.00	BI	-0.50	TH	3.00
MNO	0.04	U	1.50						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.16								
TOTAL	94.93								

COMMENTS : A RUSTY, PYRITIC, BRECCIATED POD AT LEAST 2.5M LONG OCCURS WITHIN THIS ROCK. ROCK MAY BE EXTRUSIVE RHYODACITE OR MAY BE SILICIFIED VERSION OF 86117PW011A (A GRANODIORITE).

==== FALCON BRIDGE LTD =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AB15810 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117PW015A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455290.0 N : 5410150.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, MEDIUM, MASSIVE , FELDSPAR PORPHYRITIC, LOOK AT COMM
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 27-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE : PLASMA EMISSION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	59.50	RB	10.00	SR	460.00	Y	30.00	ZR	70.00
AL2O3	16.20	NR	20.00	BA	120.00	AU	-10.00	LI	10.00
FE2O3	7.17	BE	-10.00	B	20.00	SC	23.80	V	160.00
FE0	0.00	CR	59.00	MN	930.00	CO	7.00	NI	4.00
CAO	4.62	CU	16.00	ZN	63.00	GE	-10.00	AS	-2.00
MGO	2.82	SE	-3.00	BR	2.00	MO	-5.00	AG	-0.50
NA2O	4.96	CD	-0.20	SB	-0.20	CS	-0.90	LA	12.00
K2O	0.21	CE	29.00	ND	16.00	SM	3.80	EU	1.30
TIO2	0.79	YB	3.50	LU	0.58	HF	3.00	TA	-1.00
P2O5	0.18	W	-3.00	PB	-2.00	BI	-0.50	TH	2.70
MNO	0.15	U	1.00						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.46								
TOTAL	96.10								

COMMENTS : ROCK CROSSCUT BY QTZ. VEINS. CONTACT WITH 86117PW015B IS UNCLEAR (MAY BE GRADATIONAL).

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

REPORT #2000

PAGE 1
 PRINTED 27-MAR-87
 16:07:18

SAMPLE ID # AB15811 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117PW015B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455290.0 N : 5410150.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : P. WHITING. DATE : 27-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE : PLASMA EMISSION

MAJOR OXIDES	WT Z	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	77.10	RB	-10.00	SR	90.00	Y	-10.00	ZR	140.00
AL203	12.40	NB	10.00	BA	190.00	AU	-10.00	LI	-10.00
FE203	1.34	BE	-10.00	B	30.00	SC	3.20	V	10.00
FEO	0.00	CR	160.00	MN	70.00	CO	1.00	NI	6.00
CAO	0.26	CU	10.00	ZN	14.00	GE	-10.00	AS	-2.00
MGO	0.75	SE	-3.00	BR	1.00	MO	-5.00	AG	-0.50
NA2O	6.94	CD	-0.20	SB	0.20	CS	-0.60	LA	13.70
K2O	0.29	CE	30.00	ND	12.00	SM	2.70	EU	0.30
TIO2	0.16	YB	3.60	LU	0.65	HF	4.00	TA	-1.00
P205	0.04	W	7.00	PB	-2.00	BI	-0.50	TH	4.50
MNO	0.02	U	1.50						
S	0.00								
NIO	0.00								
CR203	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.93								
TOTAL	99.31								

COMMENTS : ROCK CROSSCUT BY NUMEROUS RUSTY QTZ. VEINS. ROCK IS MOST LIKELY A SILL OR A FLOW.

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

REPORT #2000

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SAMPLE ID # AB15812 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23685 FIELD NUMBER : 86117PW013 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454800.0 N : 5410500.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, MAFIC OR MELANOCRATIC, COARSE, FELDSPAR PORPHYRITIC, GLOMEROPORPH
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : NIL , NIL , NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 27-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE : PLASMA EMISSION

MAJOR OXIDES	WT Z	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	49.00	RB	10.00	SR	250.00	Y	20.00	ZR	50.00
AL2O3	14.80	NB	30.00	BA	110.00	AU	-10.00	LI	-10.00
FE2O3	11.20	BE	-10.00	B	20.00	SC	40.60	V	350.00
FEO	0.00	CR	250.00	MN	970.00	CO	41.00	NI	100.00
CAO	11.60	CU	160.00	ZN	100.00	GE	10.00	AS	2.00
MGO	6.83	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	2.16	CD	-0.20	SB	-0.20	CS	1.20	LA	7.90
K2O	0.35	CE	21.00	ND	12.00	SM	3.50	EU	1.40
TIO2	2.55	YB	1.90	LU	0.32	HF	2.00	TA	1.00
P2O5	0.14	W	4.00	PB	-2.00	BI	-0.50	TH	0.80
MNO	0.17	U	-0.50						
S	0.00								
NIO	0.00								
CR2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.54								
TOTAL	97.00								

COMMENTS : ROCK IS GABBRO.

REPORT #2000

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

PRINTED 27-MAR-87
16:08:38

PAGE 1

SAMPLE ID # AB15813 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23685 FIELD NUMBER : 86117PW018 PROJECT # 1117

TOWNSHIP : : : : :
CONCESSION : : : : :
NTS : 092B13 PROVINCE : BRITISH COLUMBIA

UTM ZONE : 10
GRID COORDINATES : E : 455600.0 N : 5409950.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, MEDIUM, MASSIVE , LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE,
FORMATION :

SAMPLED BY : P. WHITTING. DATE : 27-MAY-86
ANALYZED BY : XKAL DATE : 04-JUL-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	48.90	RB	-10.00	SR	280.00	Y	20.00	ZR	130.00
Al2O3	14.90	NB	30.00	BA	300.00	AU	-10.00	LI	-10.00
FE2O3	12.70	BE	-10.00	B	10.00	SC	35.70	V	320.00
FeO	0.00	CR	94.00	MN	1300.00	CO	38.00	NI	19.00
CaO	9.13	CU	25.00	ZN	100.00	GE	-10.00	AS	6.00
MgO	5.25	SE	-3.00	HR	1.00	MD	-5.00	AG	-0.50
Na2O	3.32	CD	-0.20	SB	0.60	CS	-0.90	LA	14.50
K2O	0.57	CE	33.00	ND	19.00	SM	4.70	EU	1.60
TiO2	1.74	YB	2.90	LU	0.44	HF	2.00	TA	-1.00
P2O5	0.29	W	-3.00	PB	-2.00	BI	-0.50	TH	2.40
MnO	0.22	U	1.10						
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.23								
TOTAL	96.06								

COMMENTS : ROCK PROBABLY INTRUSIVE, CROSSCUT BY NUMEROUS QTZ. VEINS. CHLORITE RICH
LENS (1 X 4M), POSSIBLY A XENOLITH. ELONGATE BODY OCCURRING WITHIN ROCK
(2 X 15M) INTERPRETED TO BE DIABASE DYKE.

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15814 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 23685 FIELD NUMBER : 86117PW019 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455730.0 N : 5409840.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, MEDIUM, MASSIVE , LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 27-MAY-86
 ANALYZED BY : XRAL DATE : 04-JUL-86
 ANALYTICAL TECHNIQUE : PLASMA EMISSION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	64.10	RB	10.00	SR	230.00	Y	50.00	ZR	150.00
AL2O3	16.00	NB	20.00	BA	390.00	AU	-10.00	LI	-10.00
FE2O3	4.88	BE	-10.00	B	20.00	SC	13.30	V	50.00
FEO	0.00	CR	67.00	MN	190.00	CO	7.00	NI	5.00
CAO	2.03	CU	15.00	ZN	42.00	GE	-10.00	AS	-2.00
MGO	1.57	SE	-3.00	BR	-1.00	MO	-5.00	AG	-0.50
NA2O	6.14	CD	-0.20	SB	-0.20	CS	0.90	LA	17.00
K2O	1.11	CE	37.00	ND	21.00	SM	4.60	EU	1.20
TIO2	0.54	YB	4.40	LU	0.77	HF	4.00	TA	-1.00
P2O5	0.19	W	-3.00	PB	-2.00	BI	0.50	TH	3.60
MNO	0.07	U	1.40						
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.46								
TOTAL	96.34								

COMMENTS : O/C VARIED FROM FINE TO COARSE GRAINED. SAMPLE TAKEN OF COURSE GRAINED MATERIAL.

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SAMPLE ID # AB15815 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW020B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454370.0 N : 5409240.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
 MINERALIZATION : NIL .NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 02-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	73.50	RB	60.00	SR	180.00	Y	-10.00	ZR	110.00
AL2O3	14.30	NB	-10.00	BA	1000.00				
FE2O3	1.61								
FE0	0.00								
CA0	0.42								
MGO	1.53								
NA2O	5.02								
K2O	1.76								
TIO2	0.28								
P2O5	0.07								
MNO	0.02								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.62								
TOTAL	98.50								

COMMENTS : ROUNDED AND AUGEN SHAPED QTZ. CRYSTALS UP TO 3MM MAKE UP 10% OF ROCK.
 SAMPLE IS ADJACENT TO CONTACT. INTERMEDIATE IGNEOUS ROCK. HIGH SILICA
 CONTENT MAY BE DUE TO CONTACT METAMORPHIC EFFECTS.

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SAMPLE ID # AB15816 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW022A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454350.0 N : 5409000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, MEDIUM, QUARTZ PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, MODERATE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 02-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	72.50	RB	20.00	SR	190.00	Y	-10.00	ZR	110.00
Al2O3	13.40	NB	10.00	BA	640.00				
Fe2O3	2.74								
FeO	0.00								
CaO	1.85								
MgO	0.89								
Na2O	5.35								
K2O	1.17								
TiO2	0.25								
P2O5	0.06								
MnO	0.06								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.77								
TOTAL	98.16								

COMMENTS : Qtz. crystals, 0-10% of rock, range up to 4mm. Rock had epidote knots up to 3cm in diameter. Epidote alteration occurs in small localized patches.

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PAGE 1
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SAMPLE ID # AB15817 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW022B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454350.0 N : 5409000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, HYALOCLASTITIC, TECTONIZED, LOOK AT COMMENTS
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 02-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	49.30	RB	20.00	SR	490.00	Y	30.00	ZR	50.00
AL2O3	16.80	NB	20.00	BA	240.00				
FE2O3	8.82								
FE0	0.00								
CA0	10.00								
MGO	4.66								
NA2O	3.66								
K2O	0.39								
TIO2	0.72								
P2O5	0.21								
MNO	0.27								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.31								
TOTAL	94.16								

COMMENTS : ROCK STRONGLY EPIDOTIZED, EPIDOTE KNOTS 1MM-4CM. CALCITE ALONG FRACTURES. ROCK PROBABLY METAMORPHOSED INTERMEDIATE IGNEOUS. SP107/50.

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SAMPLE ID # AB15818 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW023B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454350.0 N : 5408840.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC , INTERMEDIATE, FINE, PLAGIOCLASE , SCHIST, LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 02-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)						
		KB	SR	Y	ZR			
SI02	67.50	10.00	260.00		20.00			90.00
AL2O3	15.30	10.00	280.00					
FE2O3	4.35							
FE0	0.00							
CA0	2.01							
MGO	1.55							
NA2O	6.70							
K2O	0.34							
TIO2	0.43							
P2O5	0.13							
MNO	0.09							
S	0.00							
NIO	0.00							
CR2O3	0.00							
CO2	0.00							
H2O+	0.00							
CO2	0.00							
H2O+	0.00							
H2O-	0.00							
LOI	1.77							
TOTAL	98.15							

COMMENTS : ROCK MAY BE SILICIFIED 86117PW023C. IT OCCURS AS LAYER 5M WIDE WITHIN PW023C. CHLORITIZATION AND EPIDOTIZATION SEEN.

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SAMPLE ID # AB15819 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW023C PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454350.0 N : 5408840.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, FELDSPAR PORPHYRITIC, MAFIC PORPHYRITIC , LO
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 02-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	
SI02	48.30	RB	30.00	SR	250.00	Y	-10.00	ZR	20.00
AL2O3	14.30	NB	30.00	BA	320.00				
FE2O3	9.57								
FEO	0.00								
CAO	10.70								
MGO	4.39								
NA2O	3.21								
K2O	0.70								
TIO2	0.64								
P2O5	0.13								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	7.62								
TOTAL	91.42								

COMMENTS : STRONGLY CHLORITIZED AND EPIDOTIZED.

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SAMPLE ID # AB15820 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW025 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454270.0 N : 5408690.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, FELDSPAR PORPHYRITIC, MAFIC PORPHYRITIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION.
 MINERALIZATION : NIL , NIL , NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 02-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	50.60	RB	10.00	SR	150.00	Y	30.00	ZR	30.00
AL2O3	15.20	NB	20.00	BA	160.00				
FE2O3	11.00								
FE0	0.00								
CA0	8.06								
MGO	6.71								
NA2O	3.84								
K2O	0.32								
TIO2	0.74								
P2O5	0.14								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.54								
TOTAL	95.93								

COMMENTS :

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SAMPLE ID # AB15821 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW020A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 454370.0 N : 5409240.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 02-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	48.30	RB	-10.00	SR	470.00	Y	40.00	ZR	60.00
AL2O3	15.50	NB	30.00	BA	90.00				
FE2O3	10.70								
FE0	0.00								
CA0	10.10								
MGO	6.87								
NA2O	3.14								
K2O	0.16								
TIO2	1.27								
P2O5	0.20								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.31								
TOTAL	95.64								

COMMENTS : WEAK EPIDOTE ALTERATION. COMPOSITION MAFIC TO INTERMEDIATE. NOT SURE IF IT IS INTRUSIVE OR EXTRUSIVE ROCK.

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SAMPLE ID # AB15822 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW032 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456050.0 N : 5409310.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MAFIC PORPHYRITIC , LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED .CHLORITIZATION, MODERATE.
 MINERALIZATION : NIL , NIL , NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 03-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	49.80	RB	40.00	SR	710.00	Y	30.00	ZR	30.00
AL2O3	18.60	NB	20.00	BA	360.00				
FE2O3	9.92								
FEO	0.00								
CAO	9.85								
MGO	4.45								
NA2O	2.91								
K2O	1.12								
TI02	0.70								
P2O5	0.24								
MNO	0.15								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.47								
TOTAL	96.96								

COMMENTS : HORNBLLENDE PHENOCRYSTS (5% OF ROCK, <4MM).

REPORT #2000

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SAMPLE ID # AB15823 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW036 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456400.0 N : 5409500.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, MASSIVE, LOOK AT COMMENTS FI
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 03-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	66.60	RB	20.00	SR	270.00	Y	50.00	ZR	150.00
AL2O3	15.50	NB	10.00	BA	310.00				
FE2O3	4.35								
FE0	0.00								
CA0	2.37								
MGO	1.38								
NA2O	6.17								
K2O	0.78								
TIO2	0.49								
P2O5	0.14								
MNO	0.06								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.08								
TOTAL	97.59								

COMMENTS : FEW CROSSCUTTING QTZ. VEINS.

REPORT #2000

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SAMPLE ID # AB15824 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW039 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 455800.0 N : 5410900.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,COARSE,MASSIVE ,EQUIGRANULAR,LOOK AT COM
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 06-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	48.20	RB	20.00	SR	360.00	Y	20.00	ZR	100.00
Al2O3	14.00	NB	30.00	BA	170.00				
Fe2O3	15.00								
FeO	0.00								
CaO	9.20								
MgO	4.99								
Na2O	2.42								
K2O	0.52								
TiO2	2.99								
P2O5	0.18								
MnO	0.21								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.08								
TOTAL	96.65								

COMMENTS : SAMPLE NEAR CONTACT WITH SEDIMENTARY UNIT. GABBRO.

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SAMPLE ID # AB15825 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW042A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456670.0 N : 5410270.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,MEDIUM,WHITE MICA,QUARTZ,SCHIST.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 06-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	75.60	RB	60.00	SR	160.00	Y	-10.00	ZR	80.00
AL2O3	13.10	NB	10.00	BA	830.00				
FE2O3	1.67								
FEO	0.00								
CAO	0.60								
MGO	0.43								
NA2O	5.22								
K2O	1.57								
TI02	0.21								
P2O5	0.04								
MNO	0.02								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.62								
TOTAL	98.45								

COMMENTS : ROCK HIGHLY SILICEOUS. FELDSPAR/QTZ. CRYSTALS VISIBLE. ROCK MAY BE ALTERED QTZ-FELDSPAR PORPHYRY INTRUSIVE.

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SAMPLE ID # AB15826 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW044 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452350.0 N : 5410500.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,COARSE,MASSIVE ,HORNBLENDE BEARING.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)
SI02	49.20	RB -10.00 SR 220.00	Y 20.00 ZR 140.00
AL2O3	13.10	NB 30.00 BA 190.00	
FE2O3	15.10		
FEO	0.00		
CAO	9.45		
MGO	5.38		
NA2O	2.31		
K2O	0.64		
TIO2	2.51		
P2O5	0.18		
MNO	0.21		
S	0.00		
NIO	0.00		
CR2O3	0.00		
CO2	0.00		
H2O+	0.00		
CO2	0.00		
H2O+	0.00		
H2O-	0.00		
LOI	1.62		
TOTAL	96.96		

COMMENTS : WEAK CHLORITE AND SERICITE ALTERATION. ROCK IS GABBRO.

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SAMPLE ID # AB15827 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW045A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452400.0 N : 5410360.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,MEDIUM,QUARTZ PORPHYRITIC,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)					
SI02	72.00	RB	20.00	SR	230.00	Y	20.00	ZR	110.00
AL2O3	13.40	NB	10.00	BA	160.00				
FE2O3	3.15								
FE0	0.00								
CA0	2.10								
MGO	1.02								
NA2O	6.35								
K2O	0.23								
TI02	0.27								
P2O5	0.07								
MNO	0.04								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.54								
TOTAL	98.48								

COMMENTS : PYRITE MOSTLY ALONG FRACTURE SURFACES. NOT SURE IF ROCK IS EXTRUSIVE OR INTRUSIVE. COULD BE SILL OR FLOW.

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PAGE 1
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SAMPLE ID # AB15828 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW047 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452210.0 N : 5410380.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SIO2	48.20	RB	20.00	SR	270.00	Y	10.00	ZR	110.00
AL2O3	14.30	NB	20.00	BA	140.00				
FE2O3	12.80								
FE0	0.00								
CAO	11.10								
MGO	6.77								
NA2O	1.63								
K2O	0.37								
TIO2	1.82								
P2O5	0.18								
MNO	0.20								
S	0.00								
NIO	0.00								
CR2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.70								
TOTAL	96.44								

COMMENTS : DISSEMINATED MAGNETITE ESTIMATED 1%. UNSURE IF ROCK IS FLOW OR VOLCANICLASTIC.

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PAGE 1
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SAMPLE ID # AB15829 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW048 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452300.0 N : 5410200.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	53.10	RB	30.00	SR	210.00	Y	20.00	ZR	60.00
AL2O3	17.60	NR	10.00	BA	200.00				
FE2O3	9.63								
FED	0.00								
CAO	4.42								
MGO	5.88								
NA2O	4.38								
K2O	0.22								
TI02	0.71								
P2O5	0.14								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.85								
TOTAL	95.55								

COMMENTS : EPIDOTE ALTERATION STRONG.

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SAMPLE ID # AB15830 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW051B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452270.0 N : 5410000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, FELSIC, LAPILLI, QUARTZ AND FELDSPAR PORPHYRITIC, MASSIVE,
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	72.80	RB	20.00	SR	160.00	Y	-10.00	ZR	110.00
AL2O3	13.80	NB	20.00	BA	460.00				
FE2O3	2.10								
FE0	0.00								
CA0	1.89								
MG0	0.99								
NA2O	5.65								
K2O	0.82								
TIO2	0.26								
P2O5	0.06								
MNO	0.05								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.54								
TOTAL	98.38								

COMMENTS : ONE LITHIC FRAGMENT SEEN, 1CM IN LENGTH AND CHLORITIZED.

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SAMPLE ID # AB15831 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW051A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452270.0 N : 5410000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	51.90	RB	30.00	SR	430.00	Y	20.00	ZR	20.00
Al2O3	16.60	NB	-10.00	BA	200.00				
Fe2O3	10.30								
FED	0.00								
CAO	7.66								
MGO	5.55								
NA2O	3.10								
K2O	0.38								
TiO2	0.67								
P2O5	0.14								
MNO	0.23								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.62								
TOTAL	95.71								

COMMENTS : ROCK HAS STRONG EPIDOTE ALTERATION DEVELOPED INTO ELONGATE LENTICULAR ZONES 1CM-1M LONG AND ROUNDED EPIDOTE KNOTS IN PLACES.

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SAMPLE ID # AB15832 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW052 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452370.0 N : 5409960.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MAFIC PORPHYRITIC, FELDSPAR PORPHYRITIC, LO
 FINAL NAME :
 ALTERATION : METAMORPHOSED, EPIDOTIZATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 07-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : XRF + ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	54.80	RB	10.00	SR	300.00	Y	10.00	ZR	30.00
AL2O3	14.80	NB	20.00	BA	190.00	CU	120.00	ZN	60.00
FE2O3	9.24	PB	10.00						
FE0	0.00								
CA0	8.11								
MGO	5.53								
NA2O	3.90								
K2O	0.24								
TIO2	0.65								
P2O5	0.14								
MNO	0.19								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.16								
TOTAL	96.90								

COMMENTS : DISSEMINATED CPY, <1%.

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SAMPLE ID # AB15833 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW055 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451270.0 N : 5410000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, MEDIUM, QUARTZ AND FELDSPAR PORPHYRITIC,
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, WEAK.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 08-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	72.30	RB	40.00	SR	100.00	Y	10.00	ZR	110.00
AL2O3	13.40	NB	10.00	BA	700.00				
FE2O3	2.34								
FE0	0.00								
CA0	2.34								
MGO	1.76								
NA2O	3.11								
K2O	1.95								
TIO2	0.24								
P2O5	0.07								
MNO	0.09								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.70								
TOTAL	97.53								

COMMENTS : WEAK PLANAR FABRIC.

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PAGE 1
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SAMPLE ID # AB15834 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW058A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451250.0 N : 5409820.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 08-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	53.00	RB	40.00	SR	270.00	Y	20.00	ZR	50.00
AL2O3	18.70	NB	20.00	BA	1000.00				
FE2O3	8.25								
FEO	0.00								
CAO	3.11								
MGO	4.02								
NA2O	4.15								
K2O	2.01								
TIO2	0.77								
P2O5	0.20								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.00								
TOTAL	93.82								

COMMENTS : CLASTS 2-10CM, MORE FELSIC AND COARSER GRAINED THAN GROUNDMASS.

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SAMPLE ID # AB15835 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28282 FIELD NUMBER : 86117PW058B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451250.0 N : 5409820.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,QUARTZ AND FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT C
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 08-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	71.50	RB	90.00	SR	110.00	Y	20.00	ZR	120.00
AL2O3	14.60	NB	10.00	BA	1160.00				
FE2O3	2.19								
FE0	0.00								
CA0	2.58								
MGO	1.21								
NA2O	2.17								
K2O	3.10								
TIO2	0.35								
P2O5	0.11								
MNO	0.04								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.08								
TOTAL	97.81								

COMMENTS : QTZ. FELDSPAR PHENOS APPROX. 1MM, JUST SLIGHTLY LARGER THAN MATRIX. ROCK MAY BE SILL OR IT MAY BE EXTRUSIVE. EVIDENCE FOR SILL IS THAT THERE ARE SIMILAR SILLS TO N., AND EXTRUSIVE BECAUSE UNIT IS IN CONTACT WITH MAEIC PYROCLASTIC.

REPORT #2000

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SAMPLE ID # AB15836 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28282 FIELD NUMBER : 86117PW058C PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451250.0 N : 5409820.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, MAFIC OR MELANOCRATIC, COARSE, MASSIVE, EQUIGRANULAR, LOOK AT COM
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 08-JUN-86
 ANALYZED BY : XRAL DATE : 08-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	46.70	RB	20.00	SR	220.00	Y	10.00	ZR	70.00
AL2O3	14.30	NB	20.00	BA	220.00				
FE2O3	16.10								
FE0	0.00								
CA0	9.71								
MGO	5.20								
NA2O	2.27								
K2O	0.66								
TIO2	3.09								
P2O5	0.12								
MNO	0.23								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.62								
TOTAL	97.22								

COMMENTS : MEDIUM GRAINED (COARSE IN PLACES) FELDSPAR GLAMEROPHYRIC UP TO 3CM IN DIAMETER. GABBRO.

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SAMPLE ID # AB15837 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117PW060 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452040.0 N : 5409980.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, MEDIUM, MAFIC PORPHYRITIC, MASSIVE, LOOK AT COMMEN
 FINAL NAME :
 ALTERATION : METAMORPHOSED, EPIDOTIZATION, MODERATE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	53.10	RB	30.00	SR	410.00	Y	10.00	ZR	40.00
AL2O3	17.40	NB	20.00	BA	330.00				
FE2O3	8.41								
FEO	0.00								
CAO	6.63								
MGO	4.60								
NA2O	5.34								
K2O	0.41								
TIO2	0.80								
P2O5	0.23								
MNO	0.19								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.39								
TOTAL	96.49								

COMMENTS : HORNBLLENDE CRYSTALS (10% OF ROCK), EUBEDRAL, AVERAGING 2MM. ROCK HAS EPIDOTE EYES 2-15CM AND WEAK CHLORITE ALTERATION.

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SAMPLE ID # AB15838 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117PW062 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452080.0 N : 5410000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,QUARTZ AND FELDSPAR PORPHYRITIC,MASSIVE .LOOK AT C
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	70.50	RB	20.00	SR	180.00	Y	10.00	ZR	100.00
AL2O3	14.30	NB	10.00	BA	200.00				
FE2O3	2.84								
FE0	0.00								
CAO	1.69								
MGO	2.13								
NA2O	6.12								
K2O	0.34								
TI02	0.35								
P2O5	0.10								
MNO	0.06								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.77								
TOTAL	98.32								

COMMENTS : GRAIN SIZE OF MATRIX AND PHENOCRYSTS VARIES FROM MED. TO FINE GRAIN AND PHENOCRYSTS RANGE FROM 1MM TO 4MM. OCCASIONAL

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SAMPLE ID # AB15839 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117PW063B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452080.0 N : 5410080.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
		RB	SR	Y	ZR				
SI02	50.00	10.00	520.00		20.00				30.00
AL2O3	16.60	10.00	50.00						
FE2O3	12.30								
FEO	0.00								
CAO	9.80								
MGO	5.49								
NA2O	0.62								
K2O	0.07								
TIO2	0.68								
P2O5	0.13								
MNO	0.26								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	94.95								

COMMENTS : STRONG EPIDOTE ALTERATION DEVELOPED KNOTS 1-6CM.

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SAMPLE ID # AB15840 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117PW067 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452350.0 N : 5409920.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,MEDIUM,QUARTZ AND FELDSPAR PORPHYRITIC,MASSIVE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 11-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	70.00	RB	-10.00	SR	230.00	Y	20.00	ZR	110.00
Al2O3	14.60	NB	10.00	BA	150.00				
Fe2O3	3.13								
FeO	0.00								
CaO	2.42								
MgO	1.63								
Na2O	6.46								
K2O	0.17								
TiO2	0.34								
P2O5	0.09								
MnO	0.08								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.16								
TOTAL	98.78								

COMMENTS :

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SAMPLE ID # AB15841 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117PW072 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456700.0 N : 5410170.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, FINE, QUARTZ AND FELDSPAR PORPHYRITIC. MA
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 13-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	73.90	RB	50.00	SR	270.00	Y	10.00	ZR	90.00
AL2O3	13.60	NB	-10.00	BA	950.00				
FE2O3	2.14								
FE0	0.00								
CA0	1.72								
MGO	0.59								
NA2O	4.97								
K2O	1.46								
TIO2	0.23								
P2O5	0.06								
MNO	0.03								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.39								
TOTAL	98.65								

COMMENTS : QTZ. PORPHYRIES AVERAGE 3MM, 5-10% OF ROCK. OCCASIONAL FELDSPAR PORPHYRIES. ROCK HAS SUGARY TEXTURE.

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SAMPLE ID # AB15842 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117PW073B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456680.0 N : 5410260.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,MASSIVE ,EQUIGRANULAR,LOOK AT COMME
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 13-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	48.10	RB	50.00	SR	370.00	Y	40.00	ZR	120.00
AL2O3	14.40	NB	20.00	BA	170.00				
FE2O3	12.00								
FE0	0.00								
CAO	8.97								
MGO	5.30								
NA2O	2.13								
K2O	1.37								
TIO2	1.87								
P2O5	0.32								
MNO	0.23								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.77								
TOTAL	93.82								

COMMENTS : DYKE, 3M WIDE, ADJACENT TO RUSTY SHEAR ZONE (PYRITIC) IN QTZ. PORPHYRY.

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SAMPLE ID # AB15843 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117PW076 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 456800.0 N : 5409950.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, EQUIGRANULAR, MASSIVE, LOOK A
 FINAL NAME :
 ALTERATION : METAMORPHOSED.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 13-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	66.60	RB	20.00	SR	340.00	Y	40.00	ZR	120.00
AL2O3	15.50	NB	10.00	BA	170.00				
FE2O3	4.20								
FE0	0.00								
CA0	4.25								
MGO	1.50								
NA2O	5.00								
K2O	0.44								
TIO2	0.48								
P2O5	0.14								
MNO	0.05								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.70								
TOTAL	97.93								

COMMENTS :

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SAMPLE ID # AB15844 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117PW080 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452250.0 N : 5408960.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, MASSIVE, HOMOGENEOUS
 FINAL NAME :
 ALTERATION : METAMORPHOSED, EPIDOTIZATION, MODERATE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 20-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE :

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SiO2	50.10	RB	20.00	SR	720.00	Y	10.00	ZR	40.00
Al2O3	18.10	NB	10.00	BA	70.00				
Fe2O3	9.82								
FeO	0.00								
CaO	7.82								
MgO	5.69								
Na2O	2.94								
K2O	0.04								
TiO2	0.84								
P2O5	0.16								
MnO	0.22								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.85								
TOTAL	94.97								

COMMENTS :

REPORT #2000

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SAMPLE ID # AR15845 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28331 FIELD NUMBER : 86117PW083 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451450.0 N : 5409200.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, HOMOGENEOUS, LOOK
 FINAL NAME :
 ALTERATION : METAMORPHOSED, EPIDOTIZATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 20-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	56.60	RB	10.00	SR	450.00	Y	10.00	ZR	40.00
AL2O3	16.40	NB	20.00	BA	490.00				
FE2O3	8.46								
FEO	0.00								
CAO	5.28								
MGO	4.53								
NA2O	2.70								
K2O	0.69								
TIO2	0.60								
P2O5	0.12								
MNO	0.25								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.85								
TOTAL	94.98								

COMMENTS : COMPOSITION ANDESITIC; WEAK CHLORITE ALTERATION. STRONG EPIDOTE KNOT DEVELOPMENT.

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SAMPLE ID # AB15846 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28331 FIELD NUMBER : 86117PW090 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452700.0 N : 5408380.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, MEDIUM, FELDSPAR PORPHYRITIC, MASSIVE , LOOK AT COMM
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION , MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 20-JUN-86
 ANALYZED BY : XRAL DATE : 14-JUL-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)
SI02	52.30	RB 20.00 SR 460.00	Y 20.00 ZR 60.00
AL2O3	18.30	NB 10.00 BA 410.00	
FE2O3	9.45		
FE0	0.00		
CAO	5.89		
MGO	5.32		
NA2O	2.82		
K2O	0.37		
TIO2	0.71		
P2O5	0.17		
MNO	0.20		
S	0.00		
NIO	0.00		
CR2O3	0.00		
CO2	0.00		
H2O+	0.00		
CO2	0.00		
H2O+	0.00		
H2O-	0.00		
LOI	4.08		
TOTAL	94.79		

COMMENTS : FELDSPAR CRYSTALS 1-2MM, 30% OF ROCK. IN PLACES ALSO ARE HORNBLENDE CRYSTALS, <2MM. ROCK IS FLOW OR CRYSTAL TUFF.

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SAMPLE ID # AB15851 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28726 FIELD NUMBER : 86117PW092 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452650.0 N : 5408640.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, QUARTZ AND FELDSPAR PORPHYRITIC, LOO
 FINAL NAME :
 ALTERATION : METAMORPHOSED , SERICITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 24-JUN-86
 ANALYZED BY : XRAL DATE : 13-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	67.80	RB	20.00	SR	160.00	Y	-10.00	ZR	60.00
AL2O3	13.70	NB	10.00	BA	170.00				
FE2O3	4.58								
FE0	0.00								
CA0	1.12								
MGO	4.98								
NA2O	4.27								
K2O	0.17								
TIO2	0.42								
P2O5	0.10								
MNO	0.12								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.77								
TOTAL	96.98								

COMMENTS : ROCK IS FISSILE, RUSTY. QUARTZ GRAINS AVERAGE 4MM UP TO 1CM AND ACCOUNT FOR 10% OF ROCK. FELDSPAR IS OF VARIABLE ABUNDANCE, <1MM.

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 PRINTED 19-MAR-87
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SAMPLE ID # AB15852 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28726 FIELD NUMBER : 86117PW106 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452950.0 N : 5410150.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, FELDSPAR PORPHYRITIC, MAFIC PORPHYRITIC, LOOK
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING. DATE : 25-JUN-86
 ANALYZED BY : XRAL DATE : 13-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SI02	54.80	RB	10.00	SR	380.00	Y	20.00	ZR	100.00
AL2O3	15.80	NB	20.00	BA	190.00				
FE2O3	10.00								
FE0	0.00								
CA0	5.41								
MGO	3.79								
NA2O	4.46								
K2O	0.34								
TI02	0.70								
P2O5	0.20								
MNO	0.15								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.24								
TOTAL	94.88								

COMMENTS : OVERALL MASSIVE, HOMOGENEOUS. HORNBLLENDE, FELDSPAR PORPHYRITIC IN PLACES. ROCK ADJACENT TO QTZ. PORPHYRY CONTACT.

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15853 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28726 FIELD NUMBER : 86117PW133 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 453120.0 N : 5410750.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, MASSIVE, EQUIGRANULAR, LOOK A
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 10-JUL-86
 ANALYZED BY : XRAL DATE : 13-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	64.50	RB	-10.00	SR	300.00	Y	40.00	ZR	100.00
AL2O3	15.50	NB	10.00	BA	290.00				
FE2O3	5.20								
FE0	0.00								
CAO	3.52								
MGO	2.60								
NA2O	5.05								
K2O	0.49								
TIO2	0.50								
P2O5	0.13								
MNO	0.08								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.39								
TOTAL	97.24								

COMMENTS : GRANODIORITE OR DIORITE IN COMP. IN ONE OTC NOTICED LENTICULAR 'LAPILLI'
 1-3CM OF FINE GRAINED PALE GREEN MATERIAL SO ROCK MAY BE EXTRUSIVE

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15855 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28726 FIELD NUMBER : 86117PW136 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452460.0 N : 5408680.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, MASSIVE, FELDSPAR PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 10-JUL-86
 ANALYZED BY : XRAL DATE : 13-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
		RB	SR	Y	ZR				
SI02	49.60	20.00	290.00	10.00	20.00				
AL2O3	17.70	20.00	230.00						
FE2O3	10.80								
FEO	0.00								
CAO	4.21								
MGO	5.60								
NA2O	3.66								
K2O	0.71								
TI02	0.73								
P2O5	0.15								
MNO	0.13								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	6.24								
TOTAL	92.42								

COMMENTS : MASSIVE EXTRUSIVE ROCK PROBABLY FLOW, OCCASIONAL FSP XTALS . 30 M LENGTH OF DTC CONTAINS DISSEM. PY UP TO 2X

REPORT #2000

PAGE 1
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SAMPLE ID # AB15866 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117PW269 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451650.0 N : 5409000.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS F
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
		RB	SR	Y	ZR				
SI02	49.40	20.00	420.00	-10.00	70.00				
AL2O3	19.30	10.00	140.00						
FE2O3	9.90								
FEO	0.00								
CAO	6.11								
MGO	5.65								
NA2O	4.30								
K2O	0.10								
TIO2	0.95								
P2O5	0.21								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	95.40								

COMMENTS : FELDSPAR XTALS 1-2MM 10% ROCK, EUBHEDRAL-SUBHEDRAL. ROCK HOMOGENOUS,
 EPIDOTE KNOTS 1-10CM. DISS PY UP TO 2%

REPORT #2000

PAGE 1
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SAMPLE ID # AB15867 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117PW272A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451660.0 N : 5409065.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	50.10	RB	10.00	SR	280.00	Y	20.00	ZR	160.00
AL2O3	14.70	NB	40.00	BA	90.00				
FE2O3	13.20								
FE0	0.00								
CA0	7.90								
MGO	4.93								
NA2O	2.56								
K2O	0.04								
TI02	2.11								
P2O5	0.32								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	95.11								

COMMENTS : ROCK MAINLY FINE GRAINED BUT HAS MED GRAINED ZONES CONT. FSP XTALS <2MM
 2%. ROCK HAS EPIDOTE KNOTS.MAGNETIC, OCCURS AS BAND 2-5M WIDE WITHIN
 SIMILAR NON-MAGNETIC ROCK (PW272B) INTERP TO BE FLOW BUT COULD ALSO BE
 SILL

REPORT #2000

PAGE 1
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SAMPLE ID # AB15868 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117PW272B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451660.0 N : 5409065.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	52.70	KB	20.00	SR	400.00	Y	20.00	ZR	170.00
AL2O3	14.50	NB	20.00	BA	40.00				
FE2O3	11.80								
FE0	0.00								
CA0	9.01								
MGO	4.71								
NA2O	1.09								
K2O	0.03								
TI02	2.10								
P2O5	0.34								
MNO	0.23								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.54								
TOTAL	95.68								

COMMENTS : ROCK INTERP TO BE FLOW BUT COULD BE SILL. EPIDOTE KNOTS <10CM 1% OF ROCK. ROCK MASSIVE HOMOGENEOUS

REPORT #2000

PAGE 1
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SAMPLE ID # AB15869 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117PW274 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451700.0 N : 5409225.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS R
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SI02	52.60	RB	20.00	SR	470.00	Y	20.00	ZR	30.00
AL2O3	17.10	NB	10.00	BA	80.00				
FE2O3	9.70								
FE0	0.00								
CAO	6.01								
MGO	6.23								
NA2O	3.70								
K2O	0.07								
TIO2	0.69								
P2O5	0.16								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.77								
TOTAL	95.76								

COMMENTS : FSP XTAL TUFF. FSP XTALS SUBROUND-SUBANG 1-3MM 2-10%. FSP XTALS
 ACCUMULATE INTO LENSES 1-3CM BY 5-20CM WHICH MAY BE ELONGATED CLASTS.
 EPIDOTE KNOTS ROUNDED 5-15CM 1% OF ROCK

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SAMPLE ID # AB15870 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117PW275 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451720.0 N : 5409315.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS F
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
		RB	SR	Y	ZR				
SI02	54.00	50.00	390.00	20.00	60.00				
AL2O3	17.00	-10.00	1120.00						
FE2O3	9.52								
FEO	0.00								
CAO	5.23								
MGO	5.40								
NA2O	2.75								
K2O	1.31								
TIO2	0.68								
P2O5	0.13								
MNO	0.23								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	95.50								

COMMENTS : FSP XTALS SUBANG TO SUBROUND 5-15% 1-3MM. FSP XTALS CONCENTRATED ALONG LENSES UP TO 4CM LONG WHICH MAY BE FRAGMENTS

REPORT #2000

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SAMPLE ID # AB15871 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117PW276A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451710.0 N : 5409385.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, MAFIC PORPHYRI
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	52.80	RB	10.00	SR	660.00	Y	10.00	ZR	30.00
Al2O3	14.20	NB	10.00	BA	50.00				
Fe2O3	10.80								
FeO	0.00								
CaO	15.30								
MgO	3.68								
Na2O	0.19								
K2O	0.10								
TiO2	0.57								
P2O5	0.21								
MnO	0.24								
S	0.00								
NiO	0.00								
Cr2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.00								
TOTAL	97.23								

COMMENTS : ROCK A BLOCK TUFF. MATRIX HBL 1-2MM 2%, FSP XTALS 1-2MM 5%. FRAGS ELONGATE 5-15CM LONG CONSIST OF SLIGHTLY MORE FELSIC MATERIAL THAN MATRIX AND CONTAIN HBL XTALS 2-5MM IN SIZE

REPORT #2000

PAGE 1
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SAMPLE ID # AB15872 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23845 FIELD NUMBER : 86117PW276B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451710.0 N : 5409385.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,INTERMEDIATE,FINE,MASSIVE ,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	53.80	RB	20.00	SR	370.00	Y	30.00	ZR	50.00
AL2O3	14.10	NB	20.00	BA	110.00				
FE2O3	8.75								
FE0	0.00								
CA0	8.93								
MGO	6.99								
NA2O	3.11								
K2O	0.23								
TIO2	0.52								
P2O5	0.23								
MNO	0.26								
S	0.00								
NIO	0.00								
CR2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.93								
TOTAL	96.27								

COMMENTS : ROCK FINE GRAINED MASS HOMOG OCCURS AS A LENS AT LEAST 2M WIDE BOUNDED BY FSP XTAL TUFFS AND HBL FSP XTAL TUFFS ROCK A FLOW OR A SILL

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15873 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117PW279 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451790.0 N : 5409100.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : P. WHITING DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	72.00	RB	40.00	SR	120.00	Y	20.00	ZR	70.00
AL2O3	13.70	NB	-10.00	BA	780.00				
FE2O3	2.82								
FE0	0.00								
CA0	0.41								
MGO	3.22								
NA2O	3.03								
K2O	1.70								
TIO2	0.30								
P2O5	0.06								
MNO	0.07								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.62								
TOTAL	97.22								

COMMENTS : MATRIX FINE GRAINED FELSIC. QTZ XTALS ROUNDED 2-6MM 2% OF ROCK FSP XTALS
 SUBANG 1-2MM 10%. VARIATIONS IN SIZE AND CONCENTRATION OF FSP XTALS
 OCCUR AS INDISTINCT LAYERS. THIS RX INTERLAYERED W. INTERM. FSP XTAL
 TUFF. INTRUS CONTACT?

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15874 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW281 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451760.0 N : 5409050.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.LAPILLI,FELDSPAR PORPHYRITIC,LOOK AT COMMEN
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING
 ANALYZED BY : XRAL
 ANALYTICAL TECHNIQUE :

DATE : 06-AUG-86
 DATE : 29-AUG-86

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	52.90	RB	20.00	SR	390.00	Y	10.00	ZR	70.00
AL2O3	17.60	NB	30.00	BA	350.00				
FE2O3	9.26								
FE0	0.00								
CA0	6.14								
MGO	4.31								
NA2O	3.55								
K2O	0.36								
TIO2	0.88								
P2O5	0.23								
MNO	0.20								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.77								
TOTAL	94.73								

COMMENTS : FSP XTALS 2-10% 1-3MM. CHLORITIC LAPILLI INTERP TO BE ALTERED MAEIC FRAGS. 1/2-2CM LENSES OF SLIGHTLY COARSER GRAINED MORE FELSIC MATERIAL 1CM WIDE 5-10CM LONG POSS. ELONGATED FRAGS. EPIDOTE KNOTS, WEAK PLANAR FABRIC

REPORT #2000

PAGE 1
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SAMPLE ID # AB15975 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW283 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451775.0 N : 5408980.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
		RB	SR	BA	Y	ZR			
SI02	54.70	20.00	420.00	140.00		10.00			40.00
AL2O3	17.30	10.00							
FE2O3	7.62								
FE0	0.00								
CAO	7.50								
MGO	3.68								
NA2O	3.35								
K2O	0.22								
TIO2	0.79								
P2O5	0.20								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.46								
TOTAL	95.00								

COMMENTS : ROCK CONTAINS FELDSPAR XTALS 1% 1-2MM SAMPLE TAKEN FROM RUSTY POSSIBLY SILICIFIED ZONE ABOUT 6M WIDE IN PLACES CROSS CUT BY QUARTZ VEINS

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

REPORT #2000

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SAMPLE ID # AB15876 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW284 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451860.0 N : 5408980.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC .FINE,MASSIVE .LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED .CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS.<1% .MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	50.20	RB	20.00	SR	320.00	Y	30.00	ZR	170.00
AL2O3	14.50	NB	20.00	BA	120.00				
FE2O3	14.40								
FE0	0.00								
CA0	7.02								
MGO	4.60								
NA2O	2.20								
K2O	0.03								
TIO2	2.23								
P2O5	0.34								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.46								
TOTAL	94.66								

COMMENTS : ROCK CHARACTERIZED BY MAGNETISM. ROCK HAS KNOBBY WEATHERED SURFACE
 CAUSED BY FELDSPAR XTAL CONCENTRATIONS UP TO 1CM LONG. INTERPRETED TO
 BE A FLOW BUT MAY BE A SILL

REPORT #2000

PAGE 1
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SAMPLE ID # AB15877 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW286 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451935.0 N : 5409070.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, MASSIVE, LOOK AT C
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, WEAK.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	52.50	RB	20.00	SR	310.00	Y	20.00	ZR	60.00
Al2O3	18.60	NB	20.00	BA	80.00				
Fe2O3	9.30								
FeO	0.00								
CaO	2.95								
MgO	5.27								
Na2O	5.00								
K2O	0.05								
TiO2	0.78								
P2O5	0.17								
MnO	0.19								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.54								
TOTAL	94.10								

COMMENTS : ROCK CONTAINS OCCASIONAL CHLORITIC LAPILLI <1CM LONG AND COARSER GRAINED MORE FELSIC FRAGMENTS 2-10CM LONG

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 10:58:22

SAMPLE ID # AB15878 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW289 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452000.0 N : 5409185.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, HOMOGENEOUS, LOOK
 FINAL NAME :
 ALTERATION : METAMORPHOSED, EPIDOTIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	55.30	RB	20.00	SR	300.00	Y	20.00	ZR	50.00
AL2O3	17.20	NB	10.00	BA	720.00				
FE2O3	7.66								
FE0	0.00								
CA0	3.94								
MGO	5.52								
NA2O	3.61								
K2O	1.06								
TIO2	0.64								
P2O5	0.14								
MNO	0.27								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.00								
TOTAL	94.78								

COMMENTS : FSP XTALS 10-15% SUBHEDRAL 1-3MM COMMONLY OCCUR AS LENSES 1-10CM LONG OF SLIGHTLY COARSER FSP XTALS OCCURRING IN GREATER CONCENTRAT. THAN SURROUND. RX. THESE HAVE GRADAT. MARGINS. MAY BE FRAGS. IN PLACES RX X-CUT BY PY- QTZ VEINS

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15879 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW288 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452085.0 N : 5409125.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH,FELDSPAR PORPHYRITIC,HOMOGENEOUS .LOOK
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% .PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	52.60	RB	20.00	SR	550.00	Y	10.00	ZR	30.00
Al2O3	17.70	NB	30.00	BA	270.00				
Fe2O3	9.19								
FeO	0.00								
CaO	6.76								
MgO	5.23								
Na2O	3.01								
K2O	0.35								
TiO2	0.70								
P2O5	0.15								
MnO	0.29								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.62								
TOTAL	95.27								

COMMENTS : SAME AS PW289

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

REPORT #2000

PAGE 1
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SAMPLE ID # AB15880 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW290 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451945.0 N : 5409330.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS F
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION , MODERATE.
 MINERALIZATION : NIL , NIL , NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	53.80	RB	30.00	SR	480.00	Y	-10.00	ZR	40.00
AL2O3	17.10	NB	20.00	BA	420.00				
FE2O3	7.97								
FE0	0.00								
CAO	6.39								
MGO	4.75								
NA2O	4.12								
K2O	0.78								
TIO2	0.68								
P2O5	0.19								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.85								
TOTAL	95.43								

COMMENTS : ROCK HAS MODERATE CHLORITE ALTERATION, FELDSPAR XTALS 1-2MM 10-15%.
 EPIDOTE KNOTS ROUNDED 1-20CM 1-3% OF ROCK

REPORT #2000

PAGE 1
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 11:00:34

SAMPLE ID # AB15881 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW292 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451990.0 N : 5409140.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS F
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	51.10	RB	30.00	SR	260.00	Y	20.00	ZR	50.00
AL2O3	19.10	NR	20.00	BA	900.00				
FE2O3	8.90								
FE0	0.00								
CA0	4.23								
MGO	5.64								
NA2O	3.64								
K2O	1.25								
TIO2	0.76								
P2O5	0.16								
MNO	0.19								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.85								
TOTAL	94.29								

COMMENTS : POSSIBLE LAPILLI CHLORITIC <1CM LONG <1% OF ROCK. FELDSPAR CRYSTALS
 1-3MM 5% OF ROCK

REPORT #2000

PAGE 1
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SAMPLE ID # AB15882 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW293 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092813 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452045.0 N : 5409005.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, MASSIVE, LOOK AT C
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	54.20	RB	20.00	SR	200.00	Y	10.00	ZR	40.00
AL2O3	17.90	NB	-10.00	BA	240.00				
FE2O3	8.39								
FE0	0.00								
CAO	1.83								
MGO	7.27								
NA2O	3.84								
K2O	0.54								
TIO2	0.68								
P2O5	0.13								
MNO	0.25								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.00								
TOTAL	94.40								

COMMENTS : DISSEMINATED PYRITE FORMS EUBEDRAL XTALS UP TO 3MM, FELDSPAR XTALS 1-2MM

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SAMPLE ID # AB15883 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW294 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451905.0 N : 5408955.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE.MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS.<1% ,MAGNETITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	47.70	RB	10.00	SR	300.00	Y	30.00	ZR	170.00
AL2O3	13.30	NR	10.00	BA	80.00				
FE2O3	11.90								
FE0	0.00								
CAO	10.30								
MGO	5.32								
NA2O	1.40								
K2O	0.03								
TIO2	2.02								
P2O5	0.34								
MNO	0.30								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	7.77								
TOTAL	91.76								

COMMENTS : ROCK MASSIVE HOMOGENEOUS WITH DISSEM. MAGNETITE INTERPRETED TO BE FLOW
 BUT MAY BE SILL

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
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SAMPLE ID # AB15884 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW295 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451950.0 N : 5409010.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION.MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	50.30	RB	20.00	SR	560.00	Y	40.00	ZR	190.00
AL2O3	14.50	NB	20.00	BA	70.00				
FE2O3	13.50								
FE0	0.00								
CAO	7.84								
MGO	4.99								
NA2O	1.12								
K2O	0.02								
TIO2	3.22								
P2O5	0.34								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.47								
TOTAL	94.08								

COMMENTS : #PS121/72S. ROCK HOMOGENEOUS HAS WEAK PLANAR TEXTURE LOOKS LIKE PW294
 BUT DOES NOT CONTAIN MAGNETITE. DISS PY AS EUHEDRAL XTALS 1-2MM OCCURS
 LOCALLY. ROCK INTERP TO BE FLOW BUT MAY BE SILL

REPORT #2000

PAGE 1
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SAMPLE ID # AB15885 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW296 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452025.0 N : 5408915.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	52.30	RB	30.00	SR	250.00	Y	20.00	ZR	70.00
AL2O3	17.90	NB	20.00	BA	360.00				
FE2O3	10.40								
FE0	0.00								
CA0	2.50								
MGO	5.24								
NA2O	3.47								
K2O	1.04								
TI02	0.97								
P2O5	0.17								
MNO	0.12								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.39								
TOTAL	93.31								

COMMENTS : EPIDOTE KNOT DEVELOPMENT. ROCK CONTAINS CHLORITIC BLEBS <1MM WIDE 2-4MM LONG. POSSIBLE LAPILLI. WEAK PLANAR FABRIC

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 11:04:22

SAMPLE ID # AB15886 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW297 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452060.0 N : 5408905.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION.MODERATE.
 MINERALIZATION : NIL ,NIL .NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	49.60	RB	20.00	SR	420.00	Y	30.00	ZR	160.00
AL2O3	14.70	NB	30.00	BA	70.00				
FE2O3	13.50								
FEO	0.00								
CAO	9.46								
MGO	4.52								
NA2O	0.90								
K2O	0.03								
TIO2	2.18								
P2O5	0.36								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.16								
TOTAL	94.48								

COMMENTS : ROCK INTERPRETED TO BE FLOW. COULD ALSO BE SILL. ROCK NOT MAGNETIC .
 WEAK PLANAR FABRIC. COMPOSITION ANDESITE-BASALT

REPORT #2000

PAGE 1
 PRINTED 19-MAR-87
 11:05:05

SAMPLE ID # AB15887 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW298 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452180.0 N : 5409105.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS F
 FINAL NAME :
 ALTERATION : METAMORPHOSED , CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SIO2	61.30	RB	20.00	SR	190.00	Y	30.00	ZR	80.00
AL2O3	15.70	NB	20.00	BA	460.00				
FE2O3	6.04								
FE0	0.00								
CAO	2.68								
MGO	4.27								
NA2O	4.38								
K2O	0.61								
TIO2	0.57								
P2O5	0.11								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.00								
TOTAL	95.43								

COMMENTS : FELDSPAR CRYSTALS SUBHEDRAL 1-2 MM 5-10% OCCUR IN CONCENTRATIONS 1-2CM WIDE UP TO 10CM LONG WHICH MAY BE FRAGMENTS EPIDOTE KNOTS

==== F A L C O N B R I D G E L T D ====
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REPORT #2000

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SAMPLE ID # AB15888 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW299 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452190.0 N : 5408975.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	52.50	RB	40.00	SR	370.00	Y	30.00	ZR	40.00
Al2O3	17.90	NB	20.00	BA	170.00				
Fe2O3	9.00								
FeO	0.00								
CaO	4.47								
MgO	5.77								
Na2O	4.11								
K2O	0.40								
TiO2	0.79								
P2O5	0.14								
MnO	0.20								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.31								
TOTAL	94.60								

COMMENTS : SUBCROP. FELDSPAR CRYSTALS 1-2MM 10-20% OF ROCK. FRAGMENTS 2CM WIDE
 5-20CM LONG RIMMED BY FINE GRAINED CHLORITE

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SAMPLE ID # AB15889 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28969 FIELD NUMBER : 86117PW300 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451820.0 N : 5409075.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, LOOK AT COMMENTS F
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
		RB	SR	Y	ZR				
SI02	50.70	30.00	440.00	20.00	70.00				
AL2O3	18.70	20.00	240.00						
FE2O3	9.52								
FE0	0.00								
CA0	5.57								
MGO	5.10								
NA2O	3.08								
K2O	0.65								
TIO2	0.94								
P2O5	0.27								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.00								
TOTAL	94.05								

COMMENTS : ROCK OVERALL MASSIVE HOMOGENEOUS W. FSP XTALS MODE IMM 5-10%. LENSES
 CONSISTING OF HIGHER CONC. OF FSP XTALS MAY BE FRAGMENTS 1-3CM WIDE UP
 TO 20CM LONG. EPIDOTE KNOTS 1% <7CM

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SAMPLE ID # AB15890 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW301 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452185.0 N : 5408940.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC . FINE, QUARTZ AND FELDSPAR PORPHYRITIC, LO
 FINAL NAME :
 ALTERATION : METAMORPHOSED . SERICITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% . PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	72.30	RB	20.00	SR	150.00	Y	-10.00	ZR	70.00
Al2O3	13.40	NB	30.00	BA	280.00				
Fe2O3	2.80								
FeO	0.00								
CaO	0.62								
MgO	2.67								
Na2O	4.64								
K2O	0.69								
TiO2	0.31								
P2O5	0.07								
MnO	0.09								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.00								
TOTAL	97.48								

COMMENTS : QUARTZ CRYSTALS ROUNDED AVG 3MM OCCUR UP TO 1.5CM. 2% OF ROCK. ROCK RUSTY ALONG FRACTURE PLANES

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SAMPLE ID # AB15891 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW302A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452250.0 N : 5408890.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	72.40	RB	20.00	SR	110.00	Y	-10.00	ZR	90.00
AL2O3	12.80	NB	10.00	BA	230.00				
FE2O3	3.14								
FE0	0.00								
CAO	0.51								
MGO	2.80								
NA2O	4.73								
K2O	0.49								
TIO2	0.30								
P2O5	0.07								
MNO	0.09								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.16								
TOTAL	97.19								

COMMENTS : QTZ XTALS AVG 3MM UP TO 1CM 1-2%. FSP XTALS 1MM 5%. GRAIN SIZE VARIES FROM FINE TO MED GRAINED. THIS RX INTERFINGERS W INTERMED. FSP XTAL TUFF TO NORTH AND SOUTH. TUFF CONTAINS CLASTS OF QTZ FSP PORPHYRY.

==== F A L C O N B R I D G E L T D ====
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SAMPLE ID # AB15892 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 38969 FIELD NUMBER : 86117PW302D PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452250.0 N : 5408890.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, LOOK AT COMMEN
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 07-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	53.00	RE	30.00	SR	240.00	Y	-10.00	ZR	30.00
AL2O3	18.30	NB	20.00	BA	240.00				
FE2O3	8.54								
FE0	0.00								
CA0	1.61								
MGO	7.41								
NA2O	4.34								
K2O	0.26								
TIO2	0.77								
P2O5	0.19								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.85								
TOTAL	93.96								

COMMENTS : FSP XTALS AVG 1MM 15%. LAPILLI CHLORITIC <1CM LONG 1-2MM WIDE 2% OF ROCK
 POSSIBLE FRAGS MADE UP OF MATERIAL WITH SLIGHTLY MORE FSP XTALS THAN
 MATRIX FORM LENSES 1-10CM LONG 1/2-2CM WIDE. PY AS EUHEDR. XTALS 1-2MM
 1-2% OF ROCK

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SAMPLE ID # AB15893 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW306 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452235.0 N : 5409030.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION , MODERATE.
 MINERALIZATION : NIL , NIL , NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 08-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	55.00	RB	30.00	SR	330.00	Y	20.00	ZR	60.00
AL2O3	17.00	NB	10.00	BA	340.00				
FE2O3	8.63								
FE0	0.00								
CA0	4.42								
MGO	5.08								
NA2O	3.35								
K2O	0.64								
TIO2	0.69								
P2O5	0.17								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.93								
TOTAL	94.53								

COMMENTS : FSP XTALS 1-2MM 10% COMMONLY FORMS LENSES 5MM-4CM WIDE AND 3CM-20CM LONG WHICH HAVE HIGHER AMOUNTS OF FSP XTALS. THESE \$PS122/78N. ARE INTERPRETED TO BE CLASTS. CHLORITIC LAPILLI UP TO 1CM LONG 1% OF ROCK.

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SAMPLE ID # AB15894 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117KB079 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092813 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452250.0 N : 5408850.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, FELSIC OR LEUCOCRATIC, FINE QUARTZ AND FELDSPAR PORPHYRITIC, LO
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, MODERATE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 08-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)			AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)				
SiO2	71.90	RB	30.00	SR	170.00	Y	10.00	ZR	150.00
Al2O3	13.90	NB	10.00	BA	200.00				
Fe2O3	1.95								
FeO	0.00								
CaO	0.79								
MgO	2.24								
Na2O	6.19								
K2O	0.27								
TiO2	0.28								
P2O5	0.07								
MnO	0.06								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.77								
TOTAL	97.62								

COMMENTS : FSP XTALS SUBHEDRAL 1-2MM 1-5% QTZ XTALS ELONGATE-ROUNDED 1-4MM 5%. ROCK HAS WEAK PLANAR TEXTURE. SAMPLE IS TAKEN FROM A QTZ FSP PORPHYRY CLAST OCCURRING WITHIN AN INTERMEDIATE FELDSPAR XTAL TUFF.

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SAMPLE ID # AB15895 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28969 FIELD NUMBER : 86117PW285 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451860.0 N : 5408995.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, FELDSPAR PORPHYRITIC, LOOK AT COMMENT
 FINAL NAME :
 ALTERATION : METAMORPHOSED , EPIDOTIZATION , MODERATE.
 MINERALIZATION : NIL , NIL , NO COMMENT.
 FORMATION :

SAMPLED BY : P. WHITING DATE : 06-AUG-86
 ANALYZED BY : XRAL DATE : 29-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	50.90	RB	10.00	SR	370.00	Y	-10.00	ZR	40.00
AL2O3	18.80	NB	10.00	BA	210.00				
FE2O3	9.61								
FeO	0.00								
CAO	5.32								
MGO	4.82								
NA2O	4.41								
K2O	0.30								
TiO2	0.98								
P2O5	0.18								
MNO	0.18								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.70								
TOTAL	94.78								

COMMENTS : FSP XTALS 2-10% 1-3MM SUBHEDRAL. CHLORITIZED LAPILLI 1/2-2CM 1% ROCK HAS WEAK PLANAR FABRIC EPIDOTE KNOTS <4CM 1%. POSS FRAGS 5-10CM LONG 1CMWIDE OF AVG. CONSIST OF MAT. W. GREATER CONC. OF FSP XTALS MAY BE ELONG. FRAGS OR LAYERS IN TUFF

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SAMPLE ID # AB21071 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB153 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451485.0 N : 5409155.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE .LOOK AT COMMENTS FILE ,CRYSTAL
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 31-JUL-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	54.90	RB	10.00	SR	380.00	Y	30.00	ZR	50.00
AL2O3	17.60	NB	20.00	BA	60.00				
FE2O3	8.66								
FE0	0.00								
CA0	6.05								
MGO	4.51								
NA2O	4.15								
K2O	0.05								
TIO2	0.74								
P2O5	0.18								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.23								
TOTAL	96.41								

COMMENTS : ROCK IS PREDOMINANTLY FELD CRYSTAL RICH MAKING IT AN ASH FLOW. HOWEVER
 THERE IS RECESSIVE WEATHERING WHICH MAY INDICATE FRAGMENTS

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SAMPLE ID # AB21072 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB154 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451420.0 N : 5409170.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,MASSIVE ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS.<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 31-JUL-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	57.40	RB	20.00	SR	340.00	Y	40.00	ZR	90.00
Al2O3	18.10	NE	10.00	BA	540.00				
Fe2O3	6.81								
FeO	0.00								
CaO	4.08								
MgO	3.79								
Na2O	5.27								
K2O	0.73								
TiO2	0.67								
P2O5	0.21								
MnO	0.15								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.08								
TOTAL	96.74								

COMMENTS : ROCK IS VIRTUALLY TEXTURELESS EXCEPT FOR THE ODD PLAGIOCLASE. MOST LIKELY ROCK IS AN ASH TUFF OCCURS WITH FELDSPAR PHYRIC INTERMED VOLCANIC

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SAMPLE ID # AB21073 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB155 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451660.0 N : 5409400.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE.MASSIVE ,MAFIC PORPHYRITIC.
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,LOOK AT COMMENTS.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 31-JUL-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	51.40	RB	20.00	SR	420.00	Y	10.00	ZR	20.00
AL2O3	14.20	NB	10.00	BA	100.00				
FE2O3	9.76								
FE0	0.00								
CAO	10.40								
MGO	8.61								
NA2O	2.26								
K2O	0.25								
TI02	0.54								
P2O5	0.12								
MNO	0.25								
S	0.00								
NIO	0.00								
CR2O3	0.05								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.62								
TOTAL	97.07								

COMMENTS : ROCK IS HORNBLENDE PORPHYRY, MOST LIKELY AN ASH FLOW, EPIDOTE KNOTS AS LARGE AS 8 CENTIMETRES

REPORT #2000

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SAMPLE ID # AB21074 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB156B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451630.0 N : 5409425.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE.
 FINAL NAME :
 ALTERATION : PERVASIVE, SERICITIZATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS. 1-SZ, PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 31-JUL-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	58.00	RB	60.00	SR	80.00	Y	-10.00	ZR	50.00
AL2O3	14.70	NB	10.00	BA	1550.00				
FE2O3	10.80								
FEO	0.00								
CAO	2.34								
MGO	2.75								
NA2O	2.64								
K2O	2.09								
TIO2	0.64								
P2O5	0.12								
MNO	0.10								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	6.00								
TOTAL	93.32								

COMMENTS : SAMPLE IS FROM RUBBLE OBTAINED FROM OLD PIT. ROCK IS FINE GRAINED QUITE SERICITIC. VERY RUSTY. POSSIBLY PIT WAS SUNK ON SHEAR ZONE

REPORT #2000

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SAMPLE ID # AB21075 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB159 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451530.0 N : 5408980.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, CRYSTAL.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : K. BOUTH DATE : 31-JUL-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	56.90	RB	10.00	SR	470.00	Y	10.00	ZR	50.00
AL2O3	17.20	NB	10.00	BA	90.00				
FE2O3	7.33								
FE0	0.00								
CAO	6.80								
MGO	4.55								
NA2O	3.31								
K2O	0.09								
TIO2	0.60								
P2O5	0.13								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.08								
TOTAL	96.56								

COMMENTS : DACITIC FELDSPAR XTAL ASH FLOW, ROCK IS FAIRLY MASSIVE EPIDOTIZED PLAGIOCLASE

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SAMPLE ID # AB21076 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB161A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451590.0 N : 5409050.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE.
 FINAL NAME :
 ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 01-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	49.50	RB	20.00	SR	330.00	Y	20.00	ZR	190.00
AL2O3	15.20	NB	40.00	BA	70.00				
FE2O3	14.00								
FE0	0.00								
CA0	7.86								
MGO	5.35								
NA2O	2.01								
K2O	0.06								
TI02	2.23								
P2O5	0.37								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.23								
TOTAL	95.76								

COMMENTS : ROCK IS EITHER A FLOW OR AN OLD MAFIC SILL OR DIKE

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SAMPLE ID # AB21077 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB161B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451590.0 N : 5409050.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, CRYSTAL.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 01-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	56.30	RB	10.00	SR	310.00	Y	10.00	ZR	70.00
AL2O3	17.20	NB	30.00	BA	230.00				
FE2O3	7.61								
FE0	0.00								
CAO	3.64								
MGO	3.73								
NA2O	5.90								
K2O	0.39								
TIO2	0.90								
P2O5	0.17								
MNO	0.10								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.31								
TOTAL	95.43								

COMMENTS : FELD XIAL ASH FLOW IN CONTACT WITH KB161A WHICH IS A MAFIC FLOW OR SILL

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SAMPLE ID # AB21078 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB163 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451450.0 N : 5408890.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PLUS FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : NIL .NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 01-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	71.20	RE	30.00	SR	130.00	Y	-10.00	ZR	120.00
AL2O3	14.10	NB	10.00	BA	1290.00				
FE2O3	2.50								
FE0	0.00								
CA0	2.68								
MGO	1.06								
NA2O	4.87								
K2O	1.08								
TIO2	0.28								
P2O5	0.07								
MNO	0.08								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.08								
TOTAL	97.86								

COMMENTS : ROCK OCCURS IN AN OUTCROP OF FELDSPAR CRYSTAL ASH , THIS ROCK IS
 PROBABLY A QIZ-FELD XTAL TUFF. HOWEVER IT MAY BE A SILL

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SAMPLE ID # AB21079 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB165 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451705.0 N : 5408760.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC.MAFIC , FINE.MASSIVE , MAFIC PORPHYRITIC.
 FINAL NAME :
 ALTERATION : SPOTS , EPIDOTIZATION , WEAK.
 MINERALIZATION : NIL , NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 01-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	48.40	RB	20.00	SR	360.00	Y	10.00	ZR	10.00
AL2O3	12.40	NB	-10.00	BA	30.00				
FE2O3	9.79								
FEO	0.00								
CAO	13.70								
MGO	11.20								
NA2O	1.30								
K2O	0.07								
TIO2	0.52								
P2O5	0.10								
MNO	0.26								
S	0.00								
NIO	0.00								
CR2O3	0.06								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.62								
TOTAL	97.02								

COMMENTS : VERY NICE MASSIVE HBLD PORPHYRY FLOW. HBLD XTALS AVERAGE 4MM BUT ARE UP TO 6MM HBLD MAKES UP 7% OF ROCK

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SAMPLE ID # A821080 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB172 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451750.0 N : 5408975.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, MASSIVE, LOOK AT C
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% , PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 02-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	51.60	RE	10.00	SR	380.00	Y	10.00	ZR	30.00
AL2O3	17.90	NB	30.00	BA	100.00				
FE2O3	10.20								
FE0	0.00								
CAO	6.01								
MGO	5.65								
NA2O	3.28								
K2O	0.12								
TIO2	0.87								
P2O5	0.21								
MNO	0.24								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.31								
TOTAL	95.29								

COMMENTS : ROCK IS MASSIVE CONTAINS UP TO 35 PERCENT FELDSP XTALS LESS THAN 1MM IN SIZE. MOST LIKELY ROCK IS AN ASH FLOW

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SAMPLE ID # AB21081 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB174 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451825.0 N : 5408875.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,BLOCK ,QUARTZ AND FELDSPAR PORPHYRITIC,MATRIX SUP
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL .NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 02-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	60.40	RB	20.00	SR	260.00	Y	20.00	ZR	70.00
Al2O3	16.10	NB	20.00	BA	1480.00				
Fe2O3	6.29								
FeO	0.00								
CaO	1.70								
MgO	5.48								
Na2O	4.56								
K2O	0.59								
TiO2	0.64								
P2O5	0.14								
MnO	0.13								
S	0.00								
NiO	0.00								
Cr2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.16								
TOTAL	95.62								

COMMENTS : ROCK IS A FRAGMENTAL, QTZ-FELD PORPHYRY FRAGS IN FELD XTAL ASH FLOW.
 SAMPLE IS OF QTZ-FELD FRAGMENTS. IN OUTCROP IT IS HARD TO SEE FRAGMENTS
 THEY LOOK LIKE IRREGULAR SHAPED PATCHES

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SAMPLE ID # AB21082 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB177 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092H13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451990.0 N : 5408665.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, MASSIVE.
 FINAL NAME :
 ALTERATION : SPOTS .EPIDOTIZATION .MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS. <1% .PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 02-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	55.30	RB	20.00	SR	480.00	Y	20.00	ZR	60.00
AL2O3	17.40	NB	20.00	BA	230.00				
FE2O3	8.46								
FE0	0.00								
CA0	7.17								
MGO	4.14								
NA2O	3.44								
K2O	0.19								
TIO2	0.69								
P2O5	0.16								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.08								
TOTAL	96.49								

COMMENTS : OCCURS TOPOGRAPHICALLY BELOW HBLD PORPHYRY, THIS ROCK IS MOST LIKELY A MASSIVE ASH FLOW

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SAMPLE ID # AB21083 WHOLE ROCK GEOCHEMICAL ANALYSIS

11:19:47

 LAB REPORT # 28845 FIELD NUMBER : 86117KB178 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451995.0 N : 5408870.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : K. BOOTH DATE : 02-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	57.90	RB	20.00	SR	360.00	Y	20.00	ZR	60.00
AL2O3	16.90	NB	20.00	BA	370.00				
FE2O3	7.91								
FE0	0.00								
CA0	3.53								
MGO	4.20								
NA2O	4.37								
K2O	0.35								
TIO2	0.66								
P2O5	0.20								
MNO	0.16								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.85								
TOTAL	95.59								

COMMENTS : ROCK IS A FELD XTAL ASH FLOW. RUSTY DUE TO 2 PERCENT DISS PYRITE

REPORT #2000

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SAMPLE ID # AB21084 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB181 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452000.0 N : 5408770.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, MASSIVE.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
		RB	SR	Y	ZR				
SI02	48.50	30.00	360.00	10.00	40.00				
AL2O3	18.00	20.00	110.00						
FE2O3	8.43								
FE0	0.00								
CAO	7.57								
MGO	6.16								
NA2O	4.31								
K2O	0.06								
TIO2	0.79								
P2O5	0.16								
MNO	0.22								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.16								
TOTAL	93.57								

COMMENTS : SIMILAR TO KB178

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 PRINTED 19-MAR-87
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SAMPLE ID # AB21085 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB182A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451960.0 N : 5408750.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PLUS FELDSPAR PORPHYRITIC,MASSIVE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED .SERICITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	71.70	RB	10.00	SR	220.00	Y	20.00	ZR	120.00
AL2O3	14.50	NB	20.00	BA	530.00				
FE2O3	2.16								
FE0	0.00								
CAO	2.14								
MGO	1.19								
NA2O	6.71								
K2O	0.39								
TIO2	0.28								
P2O5	0.08								
MNO	0.06								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.00								
TOTAL	99.18								

COMMENTS : ROCK IS A QTZ-FELD PORPHYRY ON THE FRESH SURFACE IT IS POSSIBLE TO SEE FELSP MICROLITES. PROBLEM WITH THIS ROCK IS WETHER IT IS AN INTRUSIVE OR NOT. TEXTURALLY IT DOES NOT LOOK INTRUSIVE HOWEVER THE CONTACT LOOKS INTRUSIVE

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PAGE 1
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SAMPLE ID # AB21086 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB182B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 451965.0 N : 5408755.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC .LAPILLI,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED .CHLORITIZATION,MODERATE.
 MINERALIZATION : NIL .NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	47.70	RB	20.00	SR	420.00	Y	20.00	ZR	10.00
AL2O3	17.00	NB	10.00	BA	70.00				
FE2O3	9.83								
FEO	0.00								
CAO	9.87								
MGO	7.84								
NA2O	1.50								
K2O	0.03								
TIO2	0.79								
P2O5	0.12								
MNO	0.28								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.47								
TOTAL	94.21								

COMMENTS : PREVIOUS SAMPLE 182A IS IN CONTACT WITH THIS ROCK WHICH IS FELDSP XTAL LAPILLI TUFF. FRAGS ARE ACTUALLY CHLORITIZED AND ARE APPROX 1 1/2 CM IN SIZE. ACCOUNT FOR ABOUT TWO PERCENT OF THE ROCK

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SAMPLE ID # AB21087 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB183 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452155.0 N : 5408775.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	55.50	RB	30.00	SR	480.00	Y	20.00	ZR	30.00
AL2O3	17.60	NB	10.00	BA	240.00				
FE2O3	7.49								
FE0	0.00								
CA0	5.32								
MGO	4.93								
NA2O	4.03								
K2O	0.62								
TI02	0.65								
P2O5	0.19								
MNO	0.17								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.70								
TOTAL	95.95								

COMMENTS : MOSTLY A FELD XTAL TUFF ALSO PRESENT ARE CHLORITIZED AND STRETCHED LAPILLIS. LAPILLIS MAKE UP LESS THAN 1 PERCENT OF THE ROCK

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SAMPLE ID # AB21088 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB184 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452190.0 N : 5408660.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,MASSIVE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.P.)							
SI02	70.70	RB	30.00	SR	120.00	Y	10.00	ZR	130.00
AL2O3	12.80	NB	20.00	BA	1670.00				
FE2O3	5.82								
FEO	0.00								
CAO	0.98								
MGO	1.17								
NA2O	4.30								
K2O	1.24								
TIO2	0.26								
P2O5	0.08								
MNO	0.04								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.54								
TOTAL	96.99								

COMMENTS : ROCK OCCURS AS A NARROW UNIT BETWEEN A SCHISTOSE HBLD AND A FELDSP XTAL ASH FLOW. THIS ROCK APPEARS QUITE SILICEOUS AND IS APHANITIC

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SAMPLE ID # AB21089 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB186 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PE OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452175.0 N : 5408605.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. HOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
-----		-----							
SI02	54.50	RB	-10.00	SR	610.00	Y	20.00	ZR	40.00
AL2O3	17.10	NB	20.00	BA	60.00				
FE2O3	8.98								
FE0	0.00								
CA0	7.94								
MGO	4.67								
NA2O	2.55								
K2O	0.06								
TIO2	0.79								
P2O5	0.17								
MNO	0.20								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.23								
TOTAL	96.28								

COMMENTS :

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SAMPLE ID # AB21090 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB187 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452200.0 N : 5408700.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, QUARTZ AND FELDSPAR PORPHYRITIC, TECTONIC
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL .NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	69.60	RB	10.00	SR	210.00	Y	-10.00	ZR	110.00
AL2O3	11.30	NB	20.00	BA	510.00				
FE2O3	6.22								
FE0	0.00								
CAO	2.86								
MGO	4.27								
NA2O	1.68								
K2O	0.58								
TIO2	0.25								
P2O5	0.08								
MNO	0.15								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.08								
TOTAL	96.55								

COMMENTS : QUARTZ FELDSP XTAL TUFF MODERATE SCHISTOSITY QUARTZ XTALS AVERAGE 3MM AND MAKE UP 3 TO 5 % OF THE ROCK FELDSP XTALS ARE LESS THAN OR EQUAL TO 1MM AND ACCOUNT FOR 10 %.

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SAMPLE ID # AB21091 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB188 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452325.0 N : 5408785.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, LOOK AT COMMENTS, LOOK AT COMMENTS.
 MINERALIZATION : DISSEMINATED AND BLEBS, 5-20% PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	54.80	CU	120.00	ZN	90.00	RB	30.00	SR	150.00
AL2O3	15.90	Y	10.00	ZR	60.00	NB	20.00	BA	210.00
FE2O3	9.90	PB	20.00						
FE0	0.00								
CAO	1.16								
MGO	7.59								
NA2O	3.72								
K2O	0.15								
TIO2	0.71								
P2O5	0.18								
MNO	0.38								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.62								
TOTAL	93.73								

COMMENTS : ROCK LOOKS SIMILAR TO ROAD OTC THAT STARTED THE WHOLE THING. THIS ROCK IS VIRTUALLY TEXTURELESS EXCEPT SOME VISIBLE PLAGIOCLASE, THERE ARE QUARTZ VEINLETS, PYRITE STRINGERS AND CHLORITE DEVELOPED

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SAMPLE ID # AB21092 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB189 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452310.0 N : 5408705.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, MAEIC , FINE, MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, MAGNETITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	51.00	RB	-10.00	SR	350.00	Y	30.00	ZR	180.00
AL2O3	14.80	NB	30.00	BA	70.00				
FE2O3	13.90								
FE0	0.00								
CAO	7.19								
MGO	4.69								
NA2O	2.37								
K2O	0.05								
TIO2	2.20								
P2O5	0.36								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.23								
TOTAL	95.71								

COMMENTS : MINOR FELDSPARS EVIDENT ROCK IS EITHER A FLOW OR A MAEIC SILL (DYKE)

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SAMPLE ID # AB21093 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB190 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452275.0 N : 5408610.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS , INTERMEDIATE, MEDIUM, MASSIVE , EQUIGRANULAR.
 FINAL NAME :
 ALTERATION : SPOTS , EPIDOTIZATION , WEAK.
 MINERALIZATION : NIL .NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	59.80	RB	-10.00	SR	460.00	Y	20.00	ZR	70.00
AL2O3	17.10	NE	10.00	BA	180.00				
FE2O3	6.59								
FEO	0.00								
CAO	4.40								
MGO	3.69								
NA2O	5.02								
K2O	0.15								
TIO2	0.64								
P2O5	0.15								
MNO	0.11								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	2.46								
TOTAL	97.19								

COMMENTS : STRANGE ROCK LOOKS LIKE THE FELDSPAR PHYRIC ROCK ALTHOUGH IT HAS THE APPEARANCE OF AN INTRUSIVE, QTZ VEIN OCCURS ADJACENT TO THIS ROCK

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SAMPLE ID # AB21094 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28845 FIELD NUMBER : 86117KB191 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452380.0 N : 5408595.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MAFIC PORPHYRITIC ,TECTONIZED.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
 MINERALIZATION : NIL ,NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 04-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	52.10	RB	-10.00	SR	20.00	Y	20.00	ZR	-10.00
AL2O3	12.40	NB	20.00	BA	120.00				
FE2O3	13.00								
FEO	0.00								
CAO	4.01								
MGO	10.50								
NA2O	0.04								
K2O	0.03								
TIO2	0.55								
P2O5	0.11								
MNO	0.31								
S	0.00								
NIO	0.00								
CR2O3	0.07								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	6.93								
TOTAL	92.02								

COMMENTS : ROCK IS VERY SCHISTOSE. POSSIBLE TO SEE REMNANT HBLD, ROCK IS A SHEARED HBLD PORPHYRY ASH FLOW

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SAMPLE ID # AB21095 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB192 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452720.0 N : 5408730.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, MASSIVE.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : NIL, NIL.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SI02	51.80	RB	-10.00	SR	660.00	Y	20.00	ZR	50.00
AL2O3	18.00	NB	10.00	BA	70.00				
FE2O3	9.22								
FE0	0.00								
CA0	7.42								
MGO	5.50								
NA2O	3.29								
K2O	0.05								
TIO2	0.80								
P2O5	0.17								
MNO	0.21								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	3.54								
TOTAL	95.76								

COMMENTS : ROCK IS FELDSPAR PHYRIC ASH FLOW

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SAMPLE ID # AB21096 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB194 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452590.0 N : 5408630.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	48.60	RB	30.00	SR	230.00	Y	20.00	ZR	20.00
AL2O3	18.40	NB	10.00	BA	510.00				
FE2O3	11.20								
FE0	0.00								
CA0	2.76								
MGO	7.06								
NA2O	2.68								
K2O	1.23								
TI02	0.79								
P2O5	0.18								
MNO	0.14								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	6.85								
TOTAL	92.16								

COMMENTS : ROCK IS FELSIC, QTZ EYES ARE MINOR, MOST LIKELY ROCK IS AN ASH TUFF
 DISSEM PYRITE EQUALS 3 PERCENT

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SAMPLE ID # AB21097 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB195 PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452595.0 N : 5408655.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : K. BOOTH DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SI02	48.20	RB	40.00	SR	290.00	Y	10.00	ZR	60.00
AL2O3	20.80	NB	20.00	BA	370.00				
FE2O3	8.92								
FED	0.00								
CAO	2.91								
MGO	6.87								
NA2O	5.08								
K2O	0.85								
TIO2	0.91								
P2O5	0.21								
MNO	0.18								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	5.16								
TOTAL	94.29								

COMMENTS : SAMPLE TAKEN TO COMPARE CHEMISTRY WITH OTHER FELDSPAR XIAL ASH FLOWS

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SAMPLE ID # AB21098 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB197A PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452495.0 N : 5408540.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,MASSIVE ,APHYRIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	56.20	RB	20.00	SR	460.00	Y	20.00	ZR	60.00
AL2O3	18.00	NB	20.00	BA	640.00				
FE2O3	7.85								
FE0	0.00								
CA0	3.91								
MGO	3.78								
NA2O	5.27								
K2O	0.35								
TI02	0.68								
P2O5	0.11								
MNO	0.12								
S	0.00								
NIO	0.00								
CR2O3	0.01								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	4.00								
TOTAL	95.71								

COMMENTS : VERY FINE GRAINED SILICEOUS ROCK. OCCURS AS A NARROW UNIT WITHIN AN INTERMEDIATE FELDSPAR PHYRIC ROCK. IF IMAGINATION IS USED ONE CAN SEE FELDSPAR MICROLITES.

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SAMPLE ID # AB21099 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28845 FIELD NUMBER : 86117KB197B PROJECT # 1117
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B13 PROJECT : PF OPTION
 UTM ZONE : 10
 GRID COORDINATES : E : 452500.0 N : 5408545.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, MASSIVE, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : SPOTS, EPIDOTIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : K. BOOTH DATE : 05-AUG-86
 ANALYZED BY : XRAL DATE : 22-AUG-86
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	77.00	Rb	30.00	Sr	330.00	Y	10.00	Zr	90.00
Al2O3	12.00	Nb	20.00	Ba	1670.00				
Fe2O3	2.07								
FeO	0.00								
CaO	1.92								
MgO	0.45								
Na2O	4.44								
K2O	0.68								
TiO2	0.18								
P2O5	0.15								
MnO	0.03								
S	0.00								
NiO	0.00								
Cr2O3	0.02								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	1.08								
TOTAL	98.90								

COMMENTS : OCCURS IN CONTACT WITH KB197A, THIS ROCK IS MOST LIKELY THE ASH FLOW, IN THIS CASE IT SEEMS MORE FELSIC

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

REPORT #2000

PAGE 1
PRINTED 19-MAR-87
09:37:23

SAMPLE ID # AB21100

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAR REPORT #
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86117KB156A
LOT : 0 CONCESSION :

PROJECT # 1117
PROVINCE : BRITISH COLUMBIA
PROJECT : PF OPTION

GRID COORDINATES : E : 451630.0 N : 5409425.0 EL : 0.0

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : FRACTURE CONTROLLED, SILICIFICATION, MODERATE.
MINERALIZATION : IN VEINS, 1-5%, PYRITE.
FORMATION :

SAMPLED BY : K. BOOTH
ANALYZED BY : ACME

DATE : 31-JUL-86
DATE : 00-??-00

ANALYTICAL
TECHNIQUE : ATOMIC ABSORPTION

COMMENTS : FLASHA EMISSION ANALYTICAL TECHNIQUE ALSO USED. ROCK IS MOST LIKELY SHEARED INTERMEDIATE VOLCANIC. QUARTZ-CARBONATE
VEINS CONTAIN BLEBS OF PYRITE

ANALYTICAL RESULTS NOT AVAILABLE

APPENDIX B
LIST OF SOIL RESULTS

APPENDIX B

PF OPTION - SOIL GEOCHEMICAL RESULTS - POWERLINE GRID

All values in ppm

Sample #	Cu	Pb	Zn	As
SA01908	89	11	72	< 0.2
SA01909	36	7	92	< 0.2
SA01910	32	9	74	< 0.2
SA01911	40	10	70	< 0.2
SA01912	39	14	116	< 0.2
SA01913	42	7	90	< 0.2
SA01914	30	7	60	< 0.2
SA01915	22	2	52	< 0.2
SA01916	89	8	90	< 0.2
SA01917	34	11	105	< 0.2
SA01918	24	5	72	< 0.2
SA01919	32	4	70	< 0.2
SA01920	27	4	94	< 0.2
SA01921	39 <	2	36	< 0.2
SA01922	37 <	2	36	< 0.2
SA01923	32	2	79	< 0.2
SA01924	30 <	2	35	< 0.2
SA01925	28	5	50	< 0.2
SA01926	40	5	60	< 0.2
SA01927	51	2	67	< 0.2
SA01928	133	7	76	< 0.2
SA01929	42	16	100	< 0.2
SA01930	46	14	70	< 0.2
SA01931	44	6	90	< 0.2
SA01932	30	2	62	< 0.2
SA01933	45	6	94	< 0.2

Sample #	Cu	Pb	Zn	Ag
SA01934	71	15	146	< 0.2
SA01936	71	4	30	< 0.2
SA01937	274	4	50	< 0.2
SA01938	51	3	40	< 0.2
SA01939	41	9	90	< 0.2
SA01940	322	12	400	< 0.2
SA01941	46	2	37	< 0.2
SA01942	26	15	76	< 0.2
SA01943	21	6	54	< 0.2
SA01944	42	11	86	< 0.2
SA01945	242	43	210	< 0.2
SA01946	56	9	70	< 0.2
SA01947	38	10	63	< 0.2
SA01948	26	8	56	< 0.2
SA01949	248	9	183	< 0.2
SA01950	57	6	51	< 0.2
SA01951	185	7	132	< 0.2
SA01952	56	10	280	< 0.2
SA01953	72	13	128	< 0.2
SA01954	78	6	81	< 0.2
SA01955	43	6	80	< 0.2
SA01956	63	< 2	80	< 0.2
SA01957	68	5	90	< 0.2
SA01958	109	7	105	< 0.2
SA01959	32	< 2	53	< 0.2
SA01960	101	6	90	< 0.2
SA01961	85	24	520	< 0.2
SA01962	24	13	159	< 0.2
SA01963	41	4	128	< 0.2
SA01964	25	6	83	< 0.2
SA01965	351	18	240	0.2
SA01966	23	7	129	< 0.2
SA01967	50	11	100	< 0.2
SA01968	21	11	80	< 0.2

Sample #	Cu	Pb	Zn	Ag
SA01969	26	4	110	< 0.2
SA01970	25	7	80	< 0.2
SA01971	29	6	61	< 0.2
SA01972	207	7	98	< 0.2
SA01973	111	17	262	< 0.2
SA01974	203	14	140	< 0.2
SA01976	61	10	78	< 0.2
SA01977	98	8	80	< 0.2
SA01978	139	12	98	< 0.2
SA01979	21	8	23	< 0.2
SA01980	92	8	73	< 0.2
SA01981	67	14	138	< 0.2
SA01982	174	8	25	< 0.2
SA01983	131	10	65	< 0.2
SA01984	130	10	42	< 0.2
SA01985	63	12	63	< 0.2
SA01986	28	5	50	< 0.2
SA01987	30	10	70	< 0.2
SA01988	51	10	75	< 0.2
SA01989	112	12	91	< 0.2
SA01990	380	9	143	< 0.2
SA01991	68	8	60	< 0.2
SA01992	42	5	68	< 0.2
SA01993	26	10	70	< 0.2
SA01994	38	8	78	< 0.2
SA01995	81	9	80	< 0.2
SA01996	69	9	81	< 0.2
SA01997	162	9	80	< 0.2
SA01998	173	10	100	< 0.2
SA01999	238	15	101	< 0.2
SA02000	283	9	63	< 0.2
SA17031	27	3	52	< 0.2
SA17032	35	7	70	< 0.2
SA17033	770	7	102	0.2

Sample #	Cu	Pb	Zn	Ag
SA17034	334	10	90	0.2
SA17035	37	5	52	< 0.2
SA17036	28	5	60	< 0.2
SA17037	22	9	78	< 0.2
SA17038	28	6	58	< 0.2
SA17039	56	4	66	< 0.2
SA17040	244	8	76	< 0.2
SA17041	40	10	75	< 0.2
SA17042	44	8	80	< 0.2
SA17043	42	7	98	< 0.2
SA17044	24	5	66	< 0.2
SA17045	30	7	83	< 0.2
SA17047	29	7	62	< 0.2
SA17048	29	7	80	< 0.2
SA17049	46	10	92	< 0.2
SA17050	83	7	80	< 0.2
SA17051	50	< 2	26	< 0.2
SA17052	92	8	22	< 0.2
SA17053	12	< 2	19	< 0.2
SA17054	54	2	40	< 0.2
SA17055	23	4	60	< 0.2
SA17056	18	2	50	< 0.2
SA17057	34	< 2	51	< 0.2
SA17058	127	10	103	0.2
SA17059	27	6	40	< 0.2
SA17060	20	< 2	41	< 0.2
SA17061	24	11	62	< 0.2
SA17062	31	2	75	< 0.2
SA17063	32	< 2	35	< 0.2
SA17064	142	4	244	< 0.2
SA17065	32	< 2	62	< 0.2
SA17066	182	6	168	< 0.2
SA17067	58	5	80	< 0.2
SA17068	29	9	70	< 0.2

<u>Sample #</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>
SA17069	10 <	2	35 <	0.2
SA17070	9	2	40 <	0.2
SA17071	399	11	93	0.2
SA17072	177	8	106 <	0.2
SA17073	69	4	61 <	0.2
SA17074	59	6	93 <	0.2
SA17075	79	6	52 <	0.2
SA17076	45 <	2	31 <	0.2
SA17077	67	3	42 <	0.2
SA17078	20	2	61 <	0.2
SA17079	25	3	61 <	0.2
SA17080	47	10	85 <	0.2
SA17081	35	5	61 <	0.2
SA17082	33	6	55 <	0.2
SA17083	17	5	42 <	0.2
SA17084	34	10	78 <	0.2
SA17085	31	7	80 <	0.2
SA17086	24	6	72 <	0.2
SA17088	25	8	81 <	0.2
SA17089	23	8	65 <	0.2
SA17090	19	10	65 <	0.2
SA17091	22	7	71 <	0.2
SA17092	27	8	50 <	0.2
SA17093	44	10	70 <	0.2
SA17094	90	7	89 <	0.2
SA17095	48	7	60 <	0.2
SA17096	35	8	60 <	0.2
SA17097	30	8	58 <	0.2
SA17098	87	7	75 <	0.2
SA17099	60	8	63 <	0.2
SA17100	21	9	83 <	0.2
SA17101	33	10	62 <	0.2
SA17102	96	9	77 <	0.2
SA17103	545	11	81	0.8

Sample #	Cu	Pb	Zn	Ag
SA17104	37	3	66	< 0.2
SA17105	28	2	50	< 0.2
SA17106	33	7	61	< 0.2
SA17107	381	8	83	< 0.2
SA17108	47	8	50	< 0.2
SA17109	50	10	62	< 0.2
SA17110	87	8	53	< 0.2
SA17111	52	13	72	< 0.2
SA17112	42	8	50	< 0.2
SA17113	206	8	100	< 0.2
SA17114	32	11	67	< 0.2
SA17115	30	9	190	< 0.2
SA17116	38	7	75	< 0.2
SA17117	47	15	80	< 0.2
SA17118	124	6	51	< 0.2
SA17119	62	4	50	< 0.2
SA17120	42	17	75	< 0.2
SA17121	76	4	50	< 0.2
SA17122	35	5	87	< 0.2
SA17123	28	9	51	< 0.2
SA17124	56	30	140	< 0.2
SA17125	132	12	80	< 0.2
SA17126	195	5	50	< 0.2
SA17128	57	8	52	< 0.2
SA17129	30	11	80	< 0.2
SA17130	64	15	92	< 0.2
SA17131	203	11	109	< 0.2
SA17132	31	8	60	< 0.2
SA17133	32	8	52	< 0.2
SA17134	69	14	53	< 0.2
SA17135	44	9	62	< 0.2
SA17136	355	9	80	< 0.2
SA17137	96	41	131	< 0.2
SA17138	60	21	80	< 0.2

Sample #	Cu	Pb	Zn	Ag
SA17139	77	33	113	< 0.2
SA17140	70	36	130	< 0.2
SA17141	50	10	56	< 0.2
SA17142	373	11	53	< 0.2
SA17143	128	13	72	< 0.2
SA17144	110	12	61	< 0.2
SA17145	41	7	58	< 0.2
SA17146	555	5	43	< 0.2
SA17147	239	6	40	< 0.2
SA17148	79	7	62	< 0.2
SA17149	207	14	103	< 0.2
SA17150	69	4	68	< 0.2
SA17151	60	54	80	< 0.2
SA17152	67	14	58	< 0.2
SA17153	203	9	60	< 0.2
SA17154	28	7	53	< 0.2
SA17155	58	14	128	< 0.2
SA17156	34	7	41	< 0.2
SA17157	31	10	98	< 0.2
SA17158	40	10	90	< 0.2
SA17159	40	10	81	< 0.2
SA17160	40	9	66	< 0.2
SA17161	725	14	122	< 0.2
SA17162	93	10	80	< 0.2
SA17163	570	15	148	< 0.2
SA17164	1740	11	100	< 0.2
SA17165	371	9	93	< 0.2
SA17166	45	10	70	< 0.2
SA17167	38	12	59	< 0.2
SA17168	28	12	80	< 0.2
SA17169	35	13	75	< 0.2
SA17170	27	17	100	< 0.2
SA17171	25	9	91	< 0.2
SA17173	31	13	80	< 0.2

Sample #	Cu	Pb	Zn	Ag
SA17174	35	10	72	< 0.2
SA17175	22	14	70	< 0.2
SA17176	58	8	53	< 0.2
SA17177	95	2	20	< 0.2
SA17178	251	8	49	< 0.2
SA17179	50	2	33	< 0.2
SA17180	31	5	70	< 0.2
SA17181	48	13	82	< 0.2
SA17182	78	8	92	< 0.2
SA17183	59	7	75	< 0.2
SA17184	119	8	113	0.2
SA17185	45	8	61	< 0.2
SA17186	33	9	75	< 0.2
SA17187	31	6	68	< 0.2
SA17188	42	9	80	< 0.2
SA17189	46	4	60	< 0.2
SA17190	54	9	110	< 0.2
SA17191	41	7	75	< 0.2
SA17192	41	8	65	< 0.2
SA17193	159	33	190	0.2
SA17194	81	10	75	< 0.2
SA17195	41	19	100	< 0.2
SA17196	82	10	102	0.2
SA17197	46	10	56	< 0.2
SA17198	119	8	62	< 0.2
SA17199	41	8	75	< 0.2
SA17200	66	8	91	< 0.2
SA17801	110	7	60	< 0.2
SA17802	398	11	70	< 0.2
SA17803	128	8	80	< 0.2
SA17804	53	5	56	< 0.2
SA17805	18	4	72	< 0.2
SA17806	24	4	100	< 0.2
SA17807	22	7	95	< 0.2

Sample #	Cu	Pb	Zn	Ag
SA17808	28	8	63	< 0.2
SA17809	23	5	370	< 0.2
SA17810	23	3	59	< 0.2
SA17811	14 <	2	33	< 0.2
SA17812	126	12	32	< 0.2
SA17813	97	3	52	< 0.2
SA17814	58	3	49	< 0.2
SA17816	250	9	122	< 0.2
SA17817	72	6	90	< 0.2
SA17818	28	6	101	< 0.2
SA17819	13 <	2	49	< 0.2
SA17820	14	8	60	< 0.2
SA17821	22	7	71	< 0.2
SA17822	19	8	65	< 0.2
SA17823	18	9	46	< 0.2
SA17824	17	5	46	< 0.2
SA17825	12	3	50	< 0.2
SA17826	56	11	98	< 0.2
SA17827	165	12	128	< 0.2
SA17828	61	12	76	< 0.2
SA17829	41	6	100	< 0.2
SA17830	30	10	70	< 0.2
SA17831	73	13	159	< 0.2
SA17832	38	6	80	< 0.2
SA17833	34	5	92	< 0.2
SA17834	340	7	60	< 0.2
SA17835	386	7	70	< 0.2
SA17836	485	9	140	< 0.2
SA17838	312	9	82	< 0.2
SA17839	74	9	82	< 0.2
SA17840	264	29	90	< 0.2
SA17841	64	13	66	< 0.2
SA17842	23	12	75	< 0.2
SA17843	27	16	102	< 0.2

<u>Sample #</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>
SA17844	39	9	39	< 0.2
SA17845	32	9	50	< 0.2
SA17846	33	8	43	< 0.2
SA17847	73	9	74	< 0.2
SA17848	66	7	39	< 0.2
SA17849	27	10	70	< 0.2
SA17850	31	8	58	< 0.2
SA17851	33	12	63	< 0.2
SA17852	27	7	80	< 0.2
SA17853	176	18	110	< 0.2
SA17854	35	11	70	< 0.2
SA17855	18	9	43	< 0.2
SA17856	19	11	98	< 0.2

APPENDIX C

METHODS FOR DETERMINATION OF SOIL GEOCHEM THRESHOLD VALUES

APPENDIX C

METHODS FOR DETERMINATION OF SOIL GEOCHEM THRESHOLD VALUES

Soil geochemical first and second order anomaly threshold and background values were determined using cumulative frequency plots and statistics (Table 3 and Figures C1 to C4). Cumulative frequency distribution plots were inspected for the presence of significant inflection points in the curves.

The copper cumulative curve (Figure C1) shows two inflection points, thus indicating two mineralized populations. The lower threshold is at 500 ppm, the upper at 750 ppm. The zinc cumulative curve (Figure C3), shows only one mineralized population. The threshold value was taken as 360 ppm. Levels of Pb and Ag are uniformly too low to be of value in statistical determination of anomaly thresholds.

Median was considered to closely represent background levels. The median levels for metals analysed are shown in Table 4. Data was truncated to allow for more accurate statistical evaluation in the cases of copper and zinc.

TABLE 2

STATISTICS ON REFERENCE SAMPLE SB-B
Analyses by Bondar - Clegg, Ottawa, Ontario.

	# of Samp.	Max.	Min.	Arith. Mean	Median	Stand. Deviation
Ag (ppm)	15	0.1	<0.1	<0.1	-	-
Cu (ppm)	15	168	157	163	-	4
Pb (ppm)	15	28	22	25	-	2
Zn (ppm)	15	81	75	78	-	2

TABLE 3

STATISTICS ON SOIL GEOCHEMICAL RESULTS

a)	i	COPPER STATS - NOT TRUNCATED	
		Number of Samples :	299
		Minimum :	9
		Maximum :	1740
		Mean :	93
		Standard Deviation :	147
		Median :	44
		Mode :	28
		Skewness :	1
		Kurtosis :	58
		Number of Classes :	20
		Class Interval :	87
	ii	COPPER STATS - TRUNCATED	
		Number of Samples :	296
		Minimum :	9
		Maximum :	570
		Mean :	83
		Standard Deviation :	98
		Median :	44
		Mode :	28
		Skewness :	1
		Kurtosis :	10
		Number of Classes :	20
		Class Interval :	29
b)	i	ZINC STATS - NOT TRUNCATED	
		Number of Samples :	299
		Minimum :	19
		Maximum :	520
		Mean :	81
		Standard Deviation :	50
		Median :	72
		Mode :	80
		Skewness :	1
		Kurtosis :	31
		Number of Classes :	20
		Class Interval :	26

TABLE 3 - Cont'd.

STATISTICS ON SOIL GEOCHEMICAL RESULTS

ii ZINC STATS - TRUNCATED

Number of Samples	:	296
Minimum	:	19
Maximum	:	280
Mean	:	78
Standard Deviation	:	36
Median	:	72
Mode	:	80
Skewness	:	0
Kurtosis	:	11
Number of Classes	:	20
Class Interval	:	14

c) LEAD STATS - NOT TRUNCATED

Number of Samples	:	299
Minimum	:	1
Maximum	:	54
Mean	:	9
Standard Deviation	:	6
Median	:	8
Mode	:	8
Skewness	:	0
Kurtosis	:	20
Number of Classes	:	20
Class Interval	:	3

d) SILVER STATS - NOT TRUNCATED

Number of Samples	:	299
Minimum	:	0
Maximum	:	1
Mean	:	0
Standard Deviation	:	0
Median	:	0
Mode	:	0
Skewness	:	0
Kurtosis	:	237
Number of Classes	:	20
Class Interval	:	1



— L E G E N D —

- 5 NAHAIMO GROUP
 4 MAFIC DYKES AND SILLS: fine grained, weak schistosity, magnetite may be present
 3 GABBRO: feldspar porphyritic to feldspar glomeroporphyritic, hornblende - feldspar pegmatite
 2 SALTSRING INTRUSION: intermediate to felsic quartz porphyritic to massive, equigranular
- 1a MAFIC HORNBLENDE CRYSTAL ASH FLOW: with angular fragments of hornblende crystal ash flow
 1b MAFIC HORNBLENDE CRYSTAL ASH FLOW: massive
 1c MAFIC FELDSPAR CRYSTAL ASH FLOW: weak schistosity, block fragments of quartz-porphyr and feldspar crystal ash flow, lapilli
 1d MAFIC FELDSPAR CRYSTAL ASH FLOW: massive
 1e MAFIC CRYSTAL ASH FLOW: lapilli are the predominant fragment size
 1f QUARTZ-PORPHYRY: field term, rock may be a sill or an ash tuff
 1g FELDSPAR CRYSTAL TUFF: intermediate composition
 1h FELSIC VOLCANIC: massive acrystalline (tuff?)

- SYMBOLS
- Whole rock sample
 - Base metal sample
 - Outcrop
 - Geological boundary: defined, approximate assumed
 - /// Schistosity: inclined, vertical dip unknown
 - == Main road or highway
 - Secondary road
 - Gravel road/trail
 - ~~~~ Fault: defined, approximate assumed
 - Qv Quartz vein



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,029

FALCONBRIDGE LTD.
PF OPTION, VANCOUVER ISLAND

**PROPERTY GEOLOGY
(EAST)**

NTS 92B/13E Proj. 117

WORK BY K.B.	DRAWN BY E.R.	DATE: APRIL, 1987
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Figure: 4a

SCALE 1:5000
 Date of photography July 1984
 Contour interval 20 meters with 10 meter interpolations.
 Triathlon Mapping Corporation

Maple Bay



LEGEND

- 5 NANAIMO GROUP
- 4 MAFIC DYKES AND SILLS: fine grained, weak schistosity, magnetite may be present
- 3 GABBRO: feldspar porphyritic to feldspar glomeroporphyritic, hornblende - feldspar pegmatite
- 2 SALTSRING INTRUSION: intermediate to felsic quartz porphyritic to massive, equigranular
- 1a MAFIC HORNBLende CRYSTAL FLOW: with angular fragments of hornblende crystal ash flow
- 1b MAFIC HORNBLende CRYSTAL ASH FLOW: massive
- 1c MAFIC FELDSPAR CRYSTAL ASH FLOW: weak schistosity, block fragments of quartz-porphry and feldspar crystal ash flow, lapilli
- 1d MAFIC FELDSPAR CRYSTAL ASH FLOW: massive
- 1e MAFIC CRYSTAL ASH FLOW: lapilli are the predominant fragment size
- 1f QUARTZ-PORPHYRY: field term, rock may be a sill or an ash tuff
- 1g FELDSPAR CRYSTAL TUFF: intermediate composition
- 1h FELSIC VOLCANIC: massive acrySTALLine (tuff?)

- SYMBOLS
- Whole rock sample
 - Base metal sample
 - Outcrop
 - Geological boundary: defined, approximate assumed
 - /// Schistosity: inclined, vertical dip unknown
 - == Main road or highway
 - Secondary road
 - Gravel road/trail
 - Fault: defined, approximate assumed
 - qv Quartz vein



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,029

FALCONBRIDGE LTD.

PF OPTION, VANCOUVER ISLAND

PROPERTY GEOLOGY
(WEST)

NTS 92B/13E Proj. 117

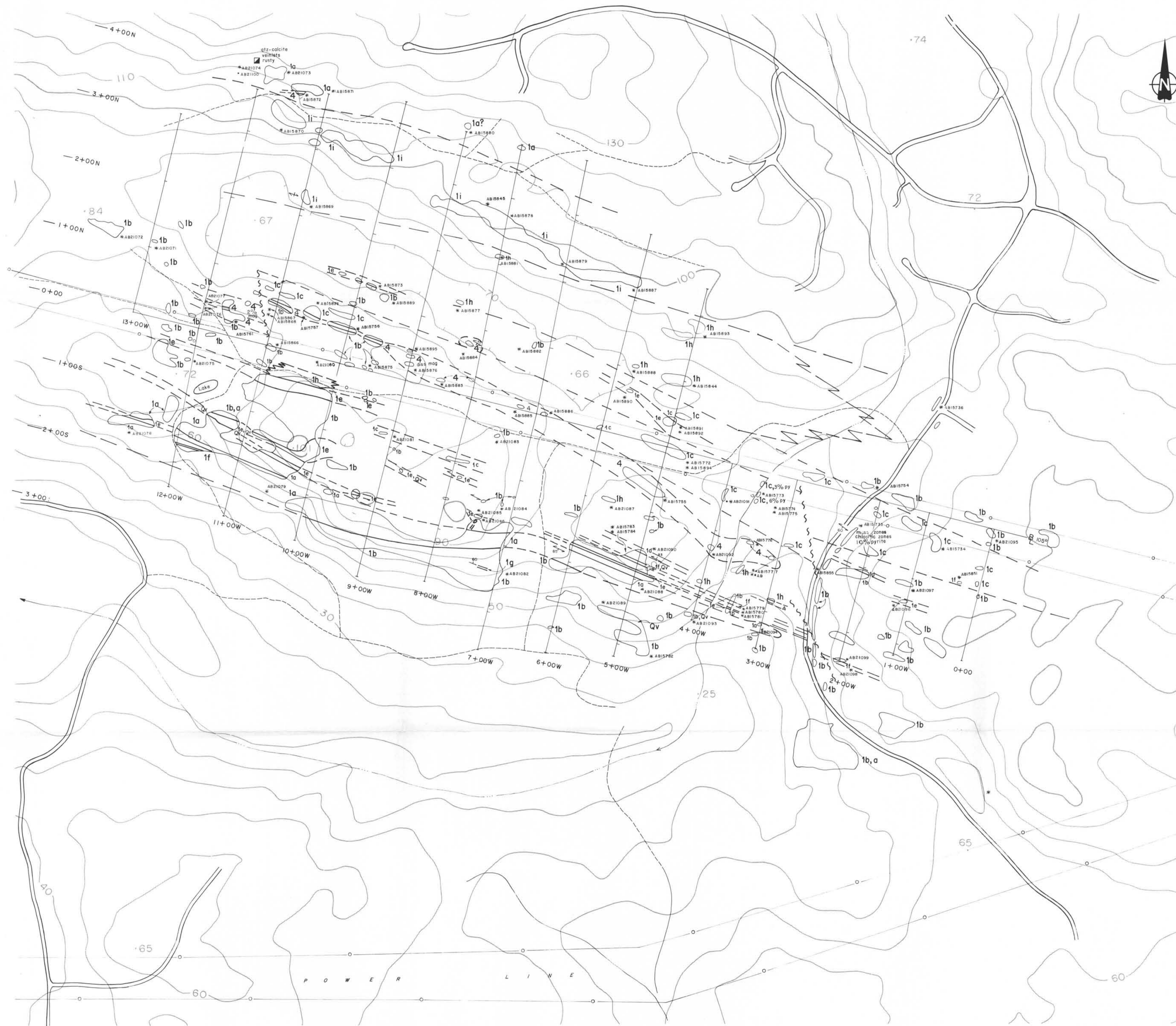
WORK BY	DRAWN BY	DATE
K.B.	ER	APRIL 20, 1987

SCALE IN METRES 1 : 5000

Figure: 4b

SCALE 1:5000
Date of photography July 1984
Contour interval 20 meters with 10 meter interpolations.

Truform Mapping Corporation



LEGEND

- 5 NANAIMO GROUP: sandstones, siltstones
 - 4 MAFIC DYKES AND SILLS: fine grained, weak schistosity magnetite may be present
 - 3 GABBRO: feldspar porphyritic to feldspar plumero-porphyrific to massive, equigranular
 - 2 SALTSRING INTRUSION: intermediate to felsic, quartz porphyritic to massive, equigranular
- MAP SYMBOLS:
- 1a MAFIC HORNBLende CRYSTAL ASH FLOW: massive and fragmental, fragments consists of same material as the groundmass
 - 1b MAFIC FELDSPAR CRYSTAL ASH FLOW: massive and fragmental, fragments are usually block size and consist of similar material as groundmass
 - 1c MAFIC FELDSPAR CRYSTAL ASH FLOW: with lapilli and/or blocks of quartz-porphyry fragments
 - 1d INTERMEDIATE FELDSPAR CRYSTAL TUFF: feldspar crystals are subhedral to euhedral average 2 mm
 - 1e QUARTZ PORPHYRY: field term, rock may be a sill or a crystal tuff
 - 1f FELSIC VOLCANIC: massive, acrySTALLINE (tuff?)
 - 1g CHLORITE SCHIST
 - 1h MAFIC BLOCK ASH FLOW: matrix is feldspar crystalline, fragments are slightly more intermediate in composition than the matrix
- SYMBOLS
- * Whole rock sample
 - Base metal sample
 - Outcrop
 - Geological boundary: defined, approximate assumed
 - Schistosity: inclined, vertical, dip unknown
 - == Main road or highway
 - Secondary road
 - Gravel road/trail
 - Fault: defined, approximate assumed
 - Qv Quartz vein

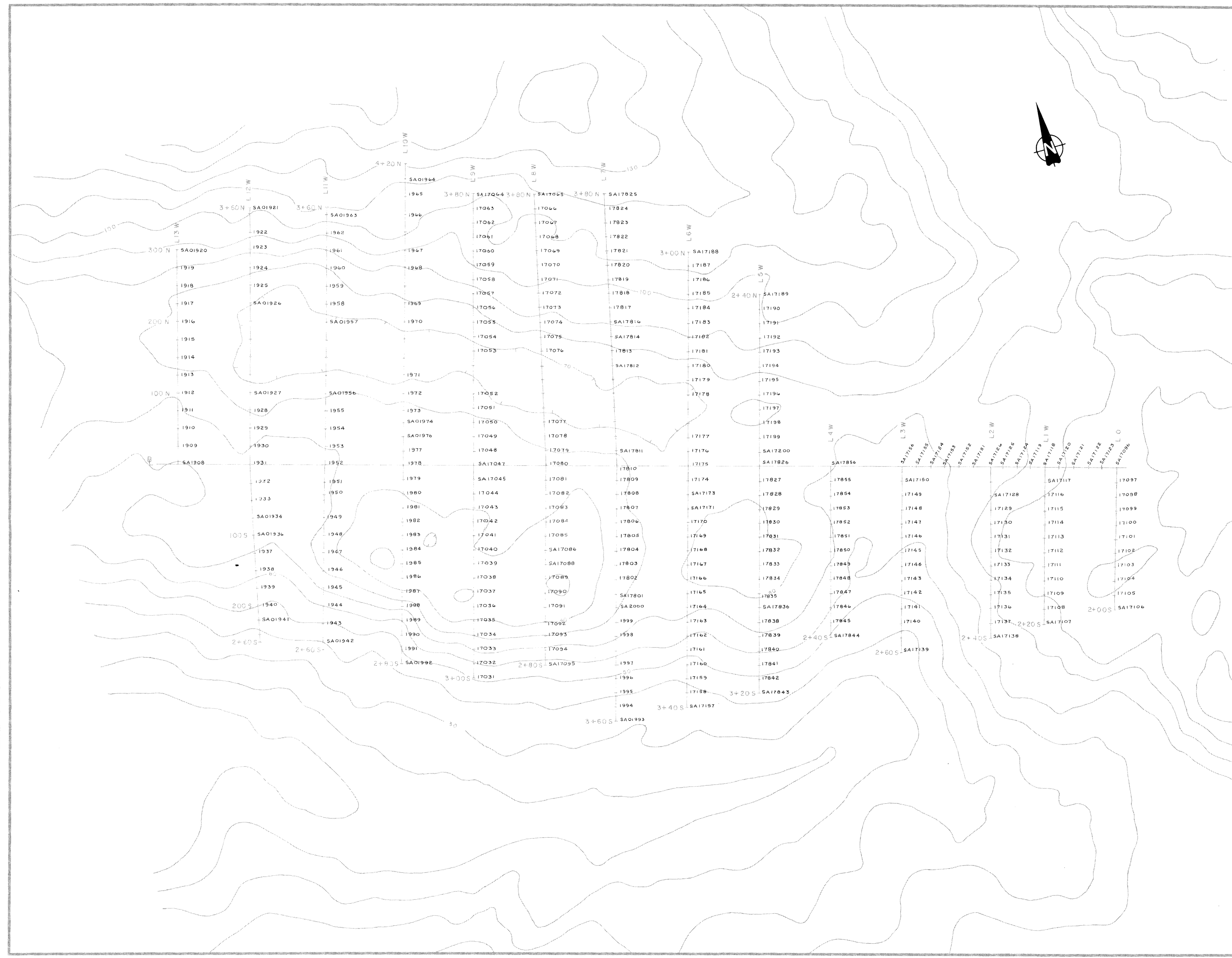
GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,029



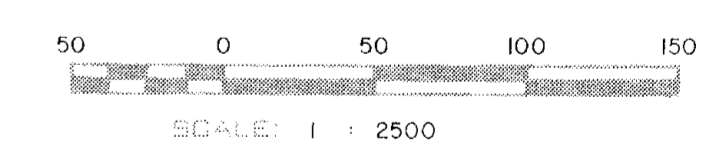
FALCONBRIDGE LTD.

PROPERTY:	PF OPTION	PROJECT NO:	117
LOCATION:	VANCOUVER ISLAND		
TYPE OF MAP:	GEOLOGY POWERLINE GRID		
WORKING PLACE:			
BASED ON:			
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:	
DRAWN BY: E. R.		5	
DATE: OCTOBER 10, 1986	N.T.S. NO.:	92B/13E	

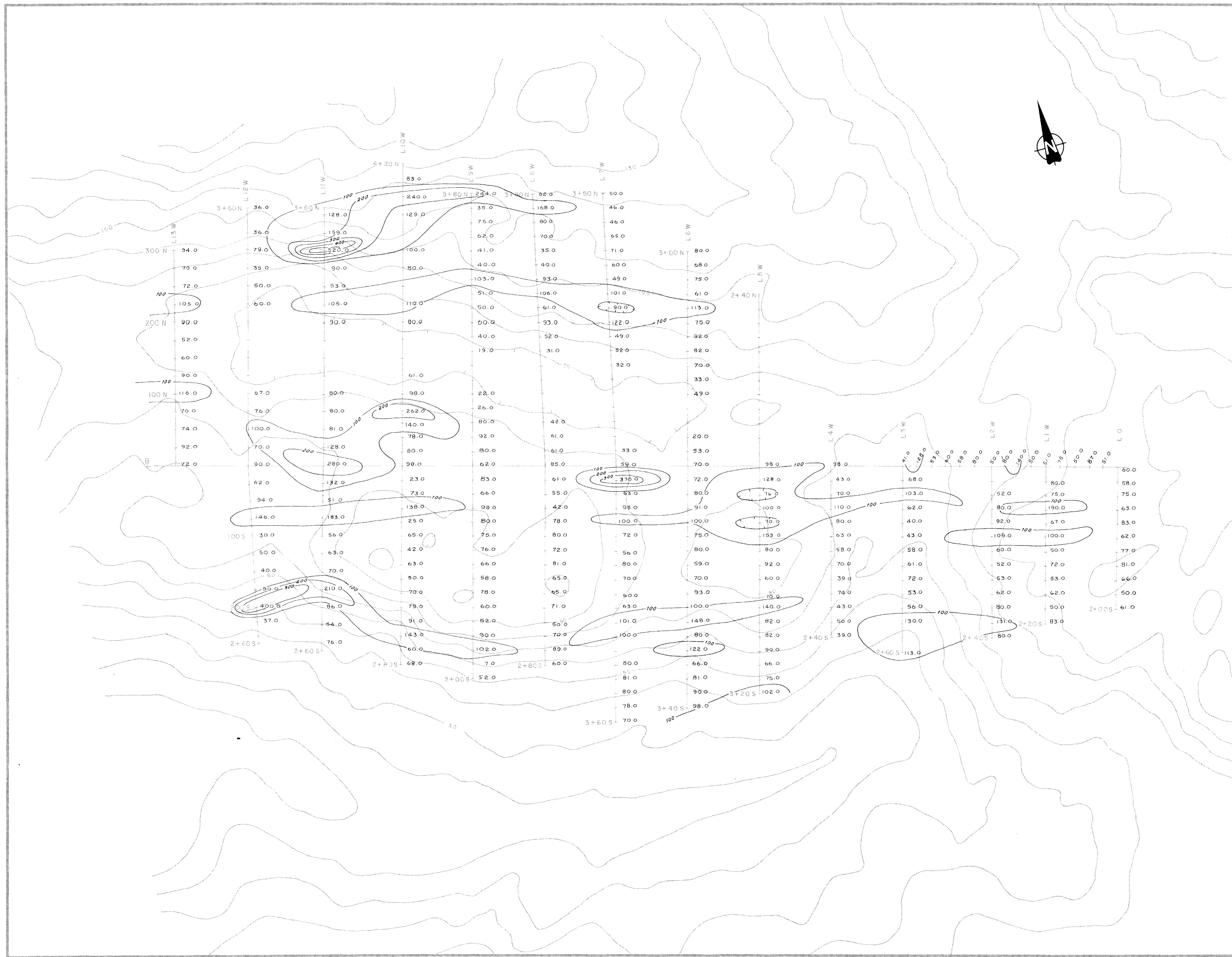


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,029

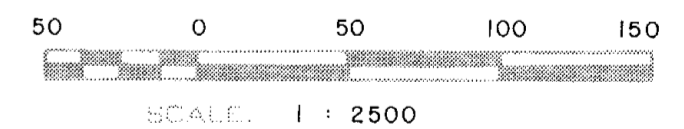


FALCONBRIDGE LTD.		
PROPERTY: PF OPTION		
LOCATION: VANCOUVER ISLAND		
TYPE OF MAP: SOIL SAMPLE LOCATION MAP		
WORKING PLACE:		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: E.R.	PROJECT NO. 117	7
DATE: OCTOBER 9, 1986	N.T.S. NO.: 92 B / 13E	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,029



FALCONBRIDGE LTD.		
ORDER BY: PF OPTION		
LOCATION: VANCOUVER ISLAND		
TYPE OF MAP: SOIL SAMPLE GEOCHEMICAL RESULTS Zn (ppm)		
WORKING PLACE:		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: E.R.	PROJECT NO. 117	9
DATE: OCTOBER 9, 1986	N.T.S. NO.:	