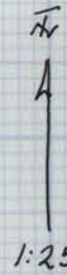
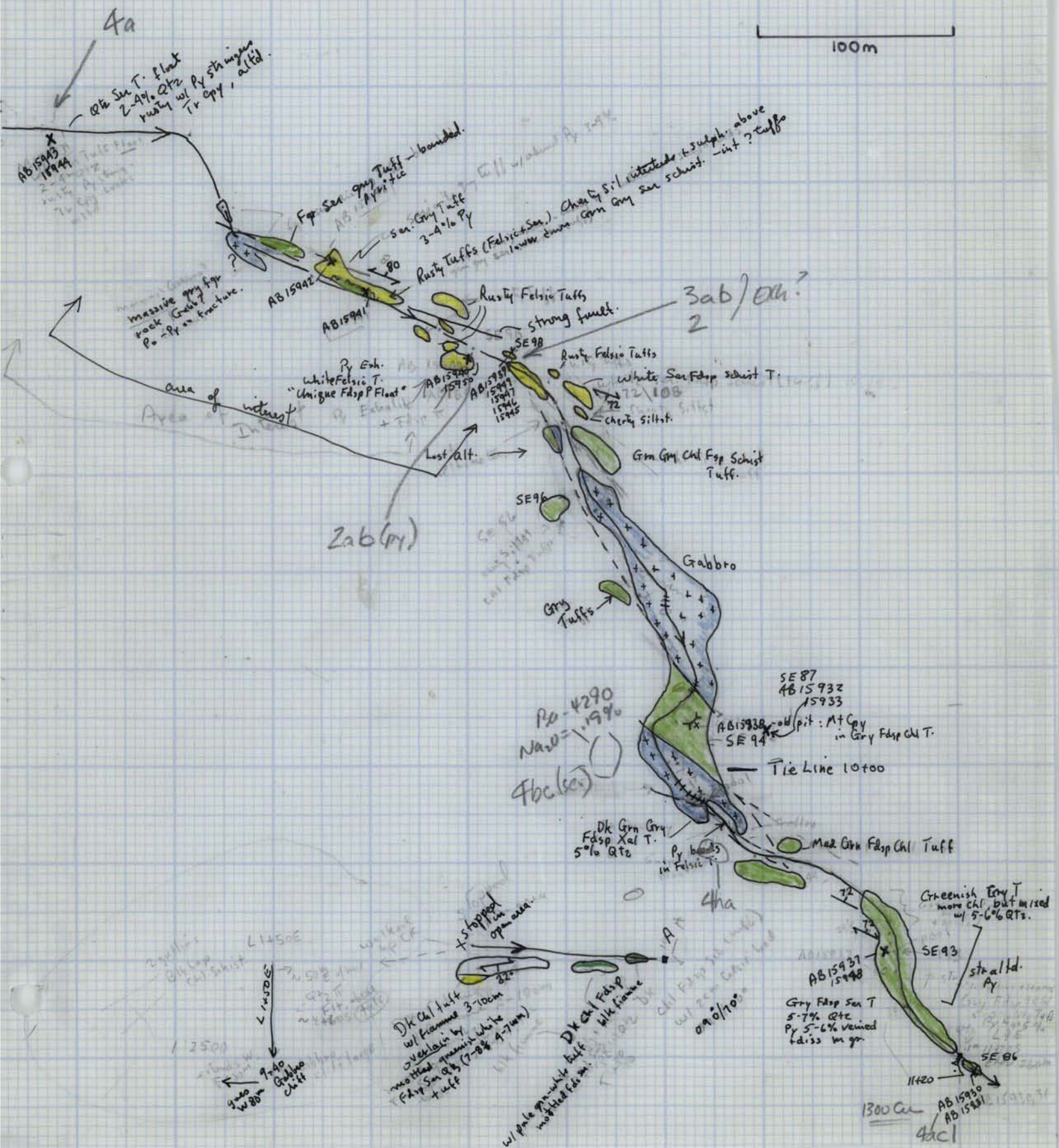
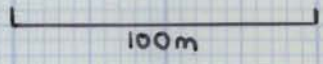


Holyoak Creek  
August 10/86



1:2500 scale.



4a  
Qtz Sx T. float  
2-4% Qtz  
rusty w/ Py stringers  
Tr opy, altid.

AB 15943  
15944

Area of interest

Fsp Sx qtz Tuff - banded.  
Pyritic  
AB 15942

Sx. Gry Tuff  
3-4% Py  
AB 15941

Rusty Tuffs (Felsic Sx.)  
Cherty S. l. interbedded + Sulph. above  
lower down Grn Gry Sx schist. - int? Tuff

Rusty Felsic Tuffs  
Strong fucult.  
SE 98

3ab/2  
2

Py Exh.  
White Felsic T.  
"Unique Fdsp P float"

AB 15940  
15947  
15948  
15949  
15945

White Sx Fdsp schist T.  
72/108  
72  
cherty siltst.

Grn Gry Chl Fsp Schist  
Tuff.

SE 96  
Gabbro

Gry Tuffs

SE 87  
AB 15932  
15933  
AB 15938  
SE 94  
old pit: Mt Gry  
in Gry Fdsp Chl T.

Tie Line 1000

Dk Grn Gry  
Fdsp Xal T.  
5% Qtz  
Py bands  
in Felsic T.

4a  
4a1

Greenish Gry T  
more chl, but mixed  
w/ 5-6% Qtz.

SE 93  
strattd.  
Ay

AB 15937  
15948  
Gry Fdsp Sx T  
5-7% Qtz  
Py 5-6% veined  
hdiss in gr.  
SE 86  
1120  
1300 cu  
AB 15950  
AB 15951  
4a1

2 walls  
Chl Fsp schist  
L 1450E  
L 1450W  
9-10  
w 80  
Gabbro  
cliff

+ stopped  
in open area  
Dk Chl Tuff  
w/ fucult  
3-10cm  
overlain by  
mottled granitic white  
Fdsp Sx qtz (7-8% 4-7mm)  
+ tuff  
w/ pale greenish  
mottled fucult.

ch  
A  
090/100

1987 SUMMARY REPORT  
ON THE  
NUGGET OPTION

PROJECT # 142

By  
John M. Pattison B.Sc., Field Geologist  
and  
David P. Money B.A.Sc., Associate Geologist

Situated 6 km southwest of Chemainus, British Columbia  
in the Victoria Mining Division

48 52' N, 123 49' E  
NTS: 092B/13E

Falconbridge Limited  
701 - 1281 West Georgia Street  
Vancouver, British Columbia  
V6E 3J7

February, 1988



**SUMMARY:**

The entire grid was covered by IP, magnetometer and VLF surveys. Reconnaissance mapping at 1:5,000 scale was conducted over most of the property east of line 8+00 E.

Mapping of the Nugget Grid has shown that Myra Formation volcanics occur under much of the southern two thirds of the property. Since outcrop is scarce (<2 % exposure), IP data will provide most of the initial drill targets. A zone of hydrothermally altered felsic and intermediate tuffs is partly exposed in Holyoak Creek near line 8E at 10+00 S. The tuffs appear to flank a massive quartz porphyritic felsic flow (dome?). Cu-bearing, sulphide-rich float was found in the vicinity of the altered tuffs. Two coincident, high chargeability, low resistivity anomalies were outlined in this area by the IP survey and are prime drill targets.

IP work also located coincident high chargeability and low resistivity anomalies on the southern half of the property. There is no outcrop within the anomalous area but all the geophysical data suggests that sulphide-bearing tuffs or flows are the source.

Narrow (< 0.15 m) beds of massive pyrite in felsic and mafic tuffs are exposed along the banks of the Chemainus River close to the mouth of Holyoak Creek, demonstrating that syngenetic, hydrothermal, sulphide-producing systems were active during deposition of these rocks.

## CONCLUSIONS AND RECOMMENDATIONS

Although outcrop is sparse it appears that a large portion of the property is underlain by Myra Formation volcanoclastics and volcanics which host several nearby polymetallic massive sulphide deposits and occurrences. The presence of IP chargeability and resistivity anomalies in an area where hydrothermally altered, sulphide-bearing rock outcrops is encouraging and indicates that further exploration is warranted. The following work is recommended:

1. Drill IP chargeability anomalies centred at 8+00E/10+80S, 8+00E/9+80S and 5+00E/13+00S. The third anomaly is the most easily accessible and should be tested first.
2. Systematic 1:5,000 scale mapping in the vicinity of Holyoak Creek and tieline 10+00S.
3. Map and prospect along the Chemainus River.

## TABLE OF CONTENTS

|                                       |    |
|---------------------------------------|----|
| SUMMARY .....                         | i  |
| CONCLUSIONS AND RECOMMENDATIONS ..... | ii |
| INTRODUCTION .....                    | 1  |
| LOCATION AND ACCESS .....             | 1  |
| TERRAIN .....                         | 1  |
| CLIMATE .....                         | 4  |
| PROPERTY HISTORY .....                | 4  |
| CLAIM STATUS .....                    | 5  |
| REGIONAL GEOLOGY .....                | 5  |
| PROPERTY GEOLOGY .....                | 6  |
| REFERENCES .....                      | 8  |

### LIST OF TABLES

|          |              | Page |
|----------|--------------|------|
| TABLE 1: | Claim Status | 5    |

### LIST OF FIGURES

|           |                                    |          |
|-----------|------------------------------------|----------|
| FIGURE 1: | Property Location Map              | 2        |
| FIGURE 2: | Claim Location Map                 | 3        |
| FIGURE 3: | Geology and Geophysics Summary Map | (pocket) |

### LIST OF APPENDICES

|             |                             |
|-------------|-----------------------------|
| APPENDIX A: | Geochemical Analytical Data |
| APPENDIX B: | Geophysical Survey Data     |

## INTRODUCTION

As part of Falconbridge Limited's search for Kuroko style polymetallic massive sulphide deposits within the Sicker Group, the Nugget claims were optioned from Cominco Limited by the Falconbridge Limited (Kidd Creek Mines Division) - Esso Minerals Canada Limited Joint Venture. Work conducted in 1987 consisted of approximately 36 km of line cutting, 36 km of VLF-EM, magnetometer, gradient IP and resistivity surveys, reconnaissance scale (1:5000) geological mapping, prospecting and lithogeochemical sampling. The cost of the field program was \$15,614.00.

The linecutting was carried out by Bill Chase and Associates of White Rock, B.C.. The geophysical surveys were performed by Delta Geoscience of Delta, B.C.. The geological fieldwork was performed by the authors, S.G.Enns, Project Geologist and T. Cowans, Technician. A total of 14 man days were spent on the claims by Falconbridge personnel. There were 28 samples analysed for major oxides and 11 samples analysed for base and precious metal contents. Sample locations are shown in Figure 3 and complete results are listed in Appendix A.

This report discusses the geology observed and evaluates the geophysical and geochemical data collected in order to choose appropriate drill targets for the Falconbridge - Esso Joint Venture. The targets will be tested with a 500 m drill program resulting in the joint venture partners acquiring a 51% vested interest in the property.

## LOCATION AND ACCESS

The Nugget Option, Nugget 1, Nugget 2, Mildred and Nonesuch claims, (123 49'W, 48 52'N; NTS: 092B/13E), are located on southeastern Vancouver Island (Figure 1), approximately six kilometers southwest of Chemainus, B.C. (Figure 2).

The southeast corner of the claims is cut by MacMillan Bloedels' Copper Canyon haulage road. The claims are accessed from Chemainus by the haulage road and a secondary logging road which cuts through the northern part of the claims. The secondary road has its junction with the haulage road immediately before the water tank, at approximately mile six on the haulage road. Access was by four wheel drive vehicles. Logging was being commenced over the claims by CIP in the fall and new access roads will likely be available.

## TERRAIN

The elevation on the claims varies from approximately 900 metres above sea level (a.s.l.) in the northern end of the claims

FALCONBRIDGE LIMITED  
LOCATION MAP  
BRITISH COLUMBIA

Figure 1

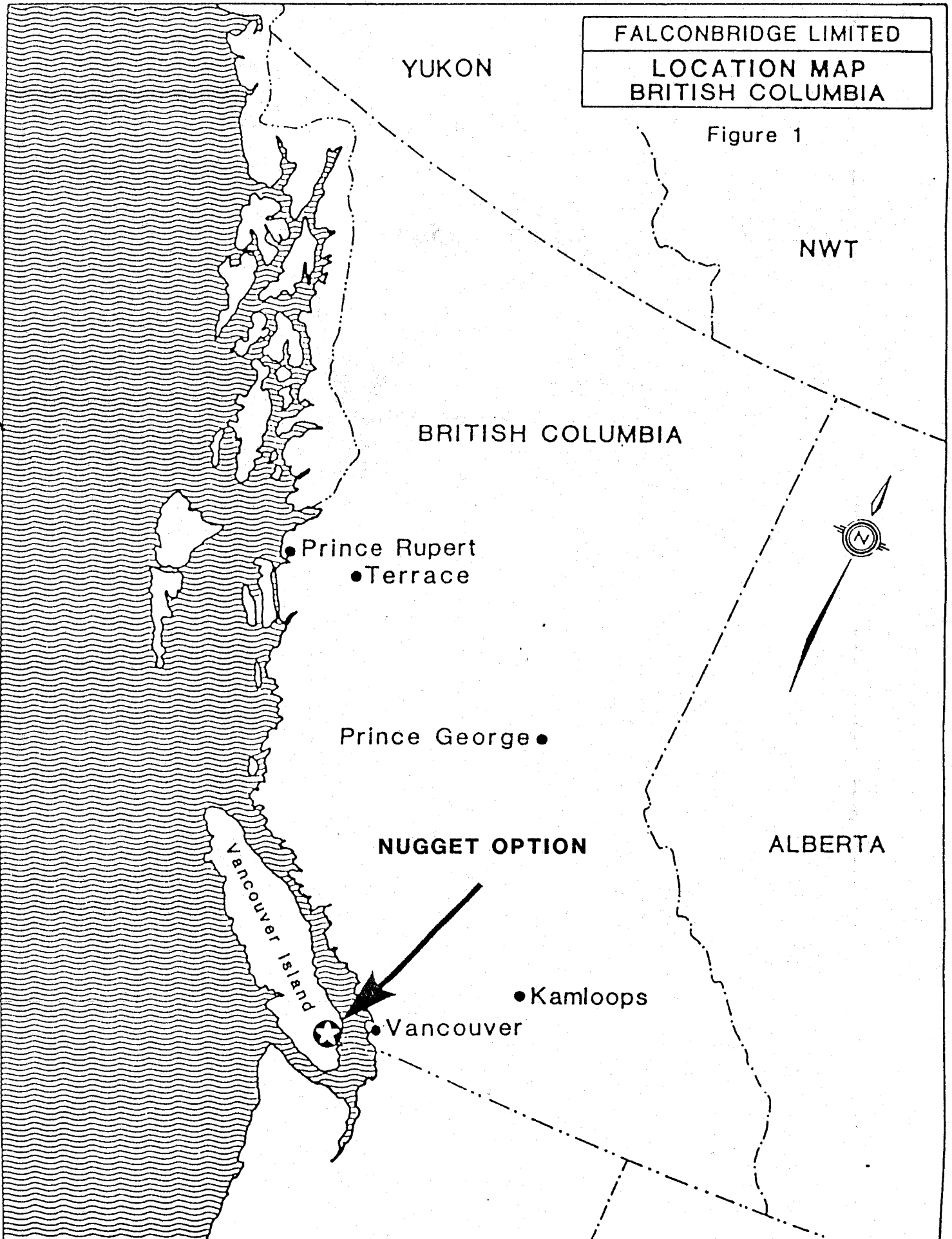
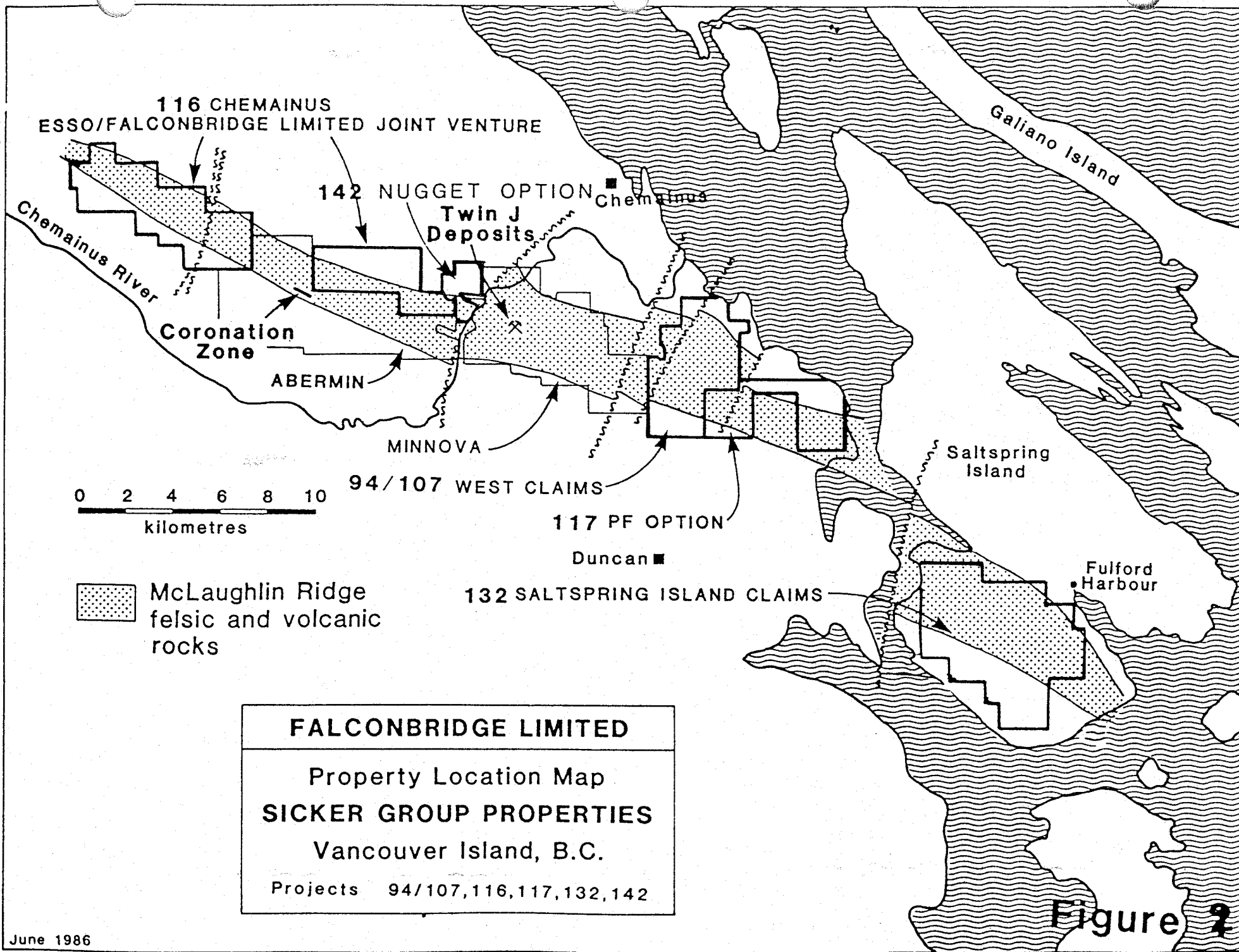




FIGURE 2: Claim Location Map



to about 100 m a.s.l. at the southern end, where the Chemainus River is located. The claims lie on the eastern flank of Mount Brenton where the terrain is steep, with slopes of up to 45 degrees, north of the haulage road. To the south of the haulage road lies the flat river valley of the Chemainus River. The western portion of the claims is characterised by deeply incised canyons, especially Holyoak Creek. The hill sides are covered by a mature forest of fir with local pockets of alder. The river flats also are covered by a mature forest; however, small swamps and groves of devils club are commonly found.

#### CLIMATE

The prevailing climate is mild with long hot dry summers and autumns and cool wet winters and springs. At higher elevations snow likely persists into mid-May. Dry forest conditions usually result in forest closures from late July to mid-September.

#### PROPERTY HISTORY

The crown grants, Mildred and Nonesuch, were held by J.R. Deighton, a prospector, in the mid 1970s. Deighton mapped and prospected on the claims in 1976 and 1977. Deighton's work is the earliest work on the Nugget option claims that could be located. There are numerous open cuts and adits on the property. Most of these workings lie along the Chemainus River and Holyoak Creek and are cut into the gabbro and diorite bodies in search of copper mineralization. These workings likely date from the late 1890s and early 1900s; however, no references to the workings could be located. Clapp (1917, p.384) reported that there were "a great many prospect drifts and pits, and not a few adits in Mounts Sicker, Richards and Brenton".

In 1979, UMEX conducted a soil sampling program on the Mildred, Nonesuch and Faith mineral claims. The Faith claim covered a area similar to the northern half of Nugget 1 and Nugget 2. The soil samples were analysed for Cu, Pb, and Zn, with thresholds of 150, 18 and 150 ppm respectively being determined. There were coincident element anomalies in the soils above the magnetite and chalcopyrite bearing gabbro - diorite bodies. There was one other coincident soil anomaly located near the southern boundary of the Mildred claim and west of Holyoak Creek. This anomaly may be associated with sulphide mineralization in the underlying felsic tuffs or may be a downslope hydromorphic dispersion of anomalous metal contents associated with the large gabbro body on the flanks of Mount Brenton.

The present claim group was acquired in late 1982 and early 1983 by Cominco Limited. Mildred and Nonesuch, reverted crown grants, were acquired on December 16, 1982 and Nugget 1 and Nugget 2 were recorded on January 25, 1983. In 1983, Cominco carried out a program of geological mapping, soil geochemical

sampling and line cutting. The program involved 76 man days of work, the cutting of 5 lines and the expenditure of \$20,487.82. The soil samples were analysed for Cu, Pb, Zn, Au and Ag. All the anomalous samples collected were thought to be associated with the gabbro and diorite intrusions.

The Falconbridge - Esso Joint Venture's interest in the claims is derived from a traverse in 1986 along Holyoak Creek by S. Enns and D. Money. A possible subvolcanic intrusion was identified and massive sulphide and barite bearing float was found. S. Enns recommended acquiring the property and the ground was optioned on the basis of this recommendation.

#### CLAIM STATUS

The current claim status is as follows:

TABLE 1: NUGGET OPTION CLAIM STATUS

| CLAIM    | RECORD # | GRANT # | # UNITS | EXPIRY DATE       |
|----------|----------|---------|---------|-------------------|
| Nugget 1 | 745      | --      | 9       | January 25, 1992  |
| Nugget 2 | 746      | --      | 6       | January 25, 1992  |
| Mildred  | 726      | L96G    | 1       | December 16, 1991 |
| Nonesuch | 725      | L66G    | 1       | December 16, 1991 |

#### REGIONAL GEOLOGY

Two geologic domains comprise Vancouver Island; they are the Pacific and Insular Belts. The claims are underlain by the Insular Belt, which forms the vast majority of Vancouver Island, and is comprised of volcanic, plutonic and sedimentary rocks of Early Paleozoic to Early Tertiary age.

The oldest rocks in the Insular belt are those of the Sicker Group, which underlie most of the property. The Sicker Group (Muller, 1980) is the remnant of a Devonian volcanic arc terrain, Wrangellia. This exotic terrain was emplaced in the Jurassic or Early Cretaceous. The claims are underlain by the Myra Formation and the Sediment Sill unit of the Sicker Group. Muller (1981) described the Myra Formation as a bimodal pyroclastic sequence with well bedded andesitic to rhyolitic tuff and breccia with minor interbeds of argillite. The Myra Formation incorporates a rhyolite porphyry (Tye Quartz Porphyry) which Muller (1980) described as occurring as discordant sills (sic) and flows. The Sediment Sill Unit is dominantly composed of cherts and argillites of the Sicker Group and is intruded by multiphase gabbroic intrusions of the Karmutsen Formation.

The regional metamorphic grade is greenschist facies. Potassium argon dating indicates regional metamorphism occurred at 180 +/- 8 My (Muller, 1980).

The Myra Formation is known to host substantial volcanogenic massive sulphide deposits of the Kuroko-type. Examples include Westmin Resources' Buttle Lake Deposits, in excess of 20 million tonnes averaging 2 % Cu, 6 % Zn, 86 g/t Ag and 2.1 g/t Au, Abermin's Coronation Zone, 837,332 tonnes averaging 0.61 % Cu, 3.59 % Zn, 0.81 % Pb, 3.26 g/t Au and 89.49 g/t Ag (Bailes et al. 1987), and the Twin J deposits, 288,000 tons (Money, 1987) of a grade similar to the Buttle Lake deposits.

## PROPERTY GEOLOGY

Geology at 1:5,000 scale is shown in Figure 3 and is discussed below. The highlights of the geophysical surveys are mentioned in this section and a detailed report is included as Appendix B.

Bedrock exposure is poor over most of the grid. Mafic to intermediate intrusive rocks account for the majority of outcrop. Felsic, intermediate and mafic tuffs and sediments are exposed in creeks and on the flanks of intrusions. Stratigraphy trends 90-115° and dips 60-80° to the north. No stratigraphic top indicators were observed.

The Sediment Sill Unit (Muller, 1980), consisting of gabbro dykes with minor sediments, is exposed on the steep slopes of Mount Brenton, north of tieline 2+00 S. The Sediment Sill Unit can be traced to the west across the top of the Holyoak grid (Mallalieu et al., 1987).

Felsic, intermediate and mafic ash to lapilli tuffs of the Myra Formation outcrop between tielines 2+00 S and 10+00 S. Mafic tuffs occur immediately south of tieline 2+00 S and some contain up to 5 % pyroxene crystals less than 4 mm long. An exposure of mafic tuff with up to 30 % black, chloritized, flattened lapilli occurs just east of line 12+50 E at 3+30 S

A 70 to 170 m wide gabbro dyke centred at 3+50 S on line 12+50 E separates the mafic tuffs mentioned above from sericitic felsic tuffs (quartz-sericite schists) to the south (Figure 3). The extent of these felsic tuffs is uncertain due to a paucity of outcrop.

A 150 m wide, west north westerly striking, magnetite-bearing, multiphased gabbro to quartz diorite intrusion is centred at 10+00 S on line 12+50 E (Figure 3). Five lithochemical samples of the intrusion were taken, and they indicate the intrusion's differentiated nature. The SiO<sub>2</sub> contents of the samples vary from 53.7 to 65.9 %. The incompatible trace elements Y and Zr increase in abundance with increasing SiO<sub>2</sub>. Yttrium ranges from 29 ppm (53.7% SiO<sub>2</sub>) to 122 ppm (65.9 % SiO<sub>2</sub>) and Zr ranges from 332 ppm (53.7 % SiO<sub>2</sub>) to 737 ppm (65.9 % SiO<sub>2</sub>).

The intrusion hosts trace amounts of chalcopyrite and up to

10 % magnetite creating a strong magnetitic anomaly. Several small adits, chasing small shears (< 0.5 m wide) and in one case a flat lying hematitic quartz vein, have been blasted into the intrusion. An inclusion of intermediate tuff within the intrusion is exposed in Holyoak Creek. An old trench into the tuff uncovered strong chalcopyrite-magnetite mineralization. A grab sample from the trench assayed 1.52 % Cu. A boulder of mafic tuff or flow with pyrite-chalcopyrite stringers found near the trench assayed 5.91 % Cu and 0.18 % Zn.

Except in Holyoak Creek, there are no outcrops between the differentiated intrusion and the Chemainus River. Scattered outcrops of felsic and intermediate tuffs, and a quartz porphyritic felsic flow/dome occur less than 100 m south of the differentiated intrusion, in the vicinity of Holyoak Creek. Pyrite-chalcopyrite stringers are widespread in an outcrop of felsic tuff at 8+50 E / 10+50 S. A grab sample from this outcrop contains 1300 ppm Cu and a sample of rusty float from near the stringer-bearing outcrop assayed 0.65 % Cu. Whole rock samples of volcanoclastics from the vicinity of Holyoak Creek, south of the differentiated intrusion, contain up to 4,920 ppm Ba, have < 0.20 % Na<sub>2</sub>O and have Ishikawa (1976) alteration indexes > 85. Two chargeability anomalies with coincident resistivity lows occur in this area (Figure 3) and are prime drill targets.

A relatively strong chargeability anomaly with coincident resistivity low occurs between lines 11+50 E and 16+50 E centred at 14+00 S (Figure 3). The bedrock is not exposed in this area but the combination of low magnetic field strength and high chargeability suggests that the area is underlain by sulphide-bearing Myra Formation volcanics/volcanoclastics.

Excellent exposures of felsic, intermediate and mafic tuffs, and possibly, a felsic flow, occur where Holyoak Creek meets the Chemainus River. Beds of massive pyrite up to 0.1 m thick occur in felsic and mafic ash tuffs. Nine grab samples from this area were analyzed for Au as well as Cu, Pb, Zn and Ag. Seven contain anomalous amounts of Au (35 to 320 ppb) but none contain particularly high amounts of Ag or base metals. The best result is 748 ppm Cu.

REFERENCES

- BAILES, R.J., BLACKADAR, D.W., and KAPUSTA, J.D. 1987: The Lara Polymetallic Massive Sulphide Deposit, Vancouver Island, British Columbia. Northwest Mining Association, 93rd Annual Convention, 1987, Spokane, Washington. 14 p.
- CLAPP, C.H. and COOKE, H.C. 1917: Sooke and Duncan Map-Areas, Vancouver Island. Geological Survey of Canada. Memoir 96.
- ISHIKAWA, Y., SAWAGUCHI, T., IWAYA, S., and HORIUCHI, M. 1976: Delineation of prospecting targets for Kuroko deposits based on modes of volcanism of underlying dacite and alteration haloes. Mining Geology, v. 26 p. 105-117.
- MALLALIEU, D.G., MONEY, D.P., ENNS, S.G. and WHITING, C.P. 1987: 1986 Final Report on the Chemainus Project, NTS 92B/13 and 92C/16. Victoria Mining Division, Falconbridge Limited, unpublished report, 44 p.
- MONEY, D.P. 1987: Geology of the Jane Volcanogenic Massive Sulphide Showing and its Host Rocks, West Claims, Crofton Area, British Columbia. B.A.Sc. Thesis. University of Toronto. 73 p.
- MULLER, J.E. 1980: The Paleozoic Sicker Group of Vancouver Island. Geological Survey of Canada. Paper 79-30. 22 p.
- 1981: Insular and Pacific Belts; in Field Guides to Geology and Mineral Deposits, Geological Association of Canada - Mineralogical Association of Canada - Geophysical Union, Joint Annual Meeting, 1981, Calgary. Edited by R.I. Thompson and D.G. Cook. p. 316-334.



APPENDIX A: GEOCHEMICAL ANALYTICAL RESULTS

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:39:08

SAMPLE ID # AD02701

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992

FIELD NUMBER :

PROJECT # 1142

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092813

GRID COORDINATES : E :

PROJECT : NUGGET CLAIMS

UTM ZONE : 10

0.0 N : 0.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC,TECTONIZED.

FINAL NAME :

ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.

MINERALIZATION : NIL.

FORMATION :

SAMPLED BY : MONEY/PATTISON

DATE : 25-AUG-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 27-NOV-87

TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS | CLASSIFICATIONS AND INDICES |          |       |       |       |             |        |                        |
|-------|-------|------------------------------|----------------------------------|-------|-----------------------------|----------|-------|-------|-------|-------------|--------|------------------------|
| SI02  | 79.20 | 81.93                        | 79.31                            | Q     | 64.99                       | NA20+K20 | 3.57  | SI02  | 81.93 | SUBALKALINE |        |                        |
| AL203 | 12.40 | 12.83                        | 14.64                            | C     | 9.98                        |          |       |       |       |             |        |                        |
| FE203 | 1.19  | 1.23                         | 0.90                             | OR    | 19.31                       | OLA      | 0.58  | NEA   | 3.59  | QA          | 95.83  | SUBALKALINE            |
| FE0   | 0.00  | 0.00                         | 0.00                             | AB    | 4.17                        |          |       |       |       |             |        |                        |
| CA0   | 0.02  | 0.02                         | 0.02                             | AN    | 0.05                        | CPX      | 0.00  | OL    | 0.00  | OPX         | 100.00 | SUBALKALINE            |
| MGO   | 0.12  | 0.19                         | 0.27                             | LC    | 0.00                        |          |       |       |       |             |        |                        |
| NA20  | 0.43  | 0.44                         | 0.83                             | NE    | 0.00                        | A        | 73.29 | F     | 22.78 | M           | 3.83   | CALC-ALKALINE          |
| K20   | 3.02  | 3.12                         | 3.86                             | KP    | 0.00                        |          |       |       |       |             |        |                        |
| TIO2  | 0.20  | 0.21                         | 0.15                             | AC    | 0.00                        | AL203    |       | 12.83 | NORM  | PLAG        | 0.00   | CALC-ALKALINE          |
| P205  | 0.03  | 0.03                         | 0.03                             | DI    | 0.00                        |          |       |       |       |             |        |                        |
| MNO   | 0.00  | 0.50                         | 0.50                             | HE    | 0.00                        | AN       | 0.00  | ABA   | 17.77 | OR          | 82.23  | K-RICH SERIES          |
| S     | 0.00  | 0.00                         | 0.00                             | EN    | 0.54                        |          |       |       |       |             |        |                        |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS    | 0.00                        | CI       |       | 1.43  | NORM  | PLAG        | 0.00   | RHYOLITE               |
| CR203 | 0.00  | 0.50                         | 0.50                             | FD    | 0.00                        |          |       |       |       |             |        |                        |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA    | 0.00                        |          |       |       |       |             |        |                        |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO    | 0.00                        | JENSEN   |       |       |       |             |        | CALC-ALKALINE RHYOLITE |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN    | 0.00                        | AL       | 91.75 | FE    | 6.57  | HG          | 1.68   |                        |
| LUI   | 2.00  | 0.00                         | 0.00                             | MT    | 0.00                        |          |       |       |       |             |        |                        |
| TOTAL | 96.65 | 98.00                        | 98.00                            | IL    | 0.50                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | CR    | 0.75                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | HM    | 0.90                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | AP    | 0.07                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | PO    | 0.00                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | NS    | 0.00                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | KS    | 0.00                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | KU    | 0.65                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | AG    | 0.00                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | OL    | 0.00                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | OPX   | 0.54                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | CPX   | 0.00                        |          |       |       |       |             |        |                        |
|       |       |                              |                                  | ABA   | 4.17                        |          |       |       |       |             |        |                        |

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

CU -10.00:ZN 15.00:RB 61.00:SR 42.00:Y 20.00:ZR 70.00:NB -10.00:BA 844.00:

COMMENTS : QUARTZ SERICITE SCHIST EXPOSURE ON ROAD 64.7 M EAST ALONG ROAD FROM L11+50E @ 4+00E  
 SOME OF THIS OUTCROP DOES HAVE TRACE PYRITE (<1/2%) PY

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:39:51

SAMPLE ID # AD02702

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992      FIELD NUMBER : 87142DM006      PROJECT # 1142  
 TOWNSHIP :              LOT : 0 CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NIS : 092B13            GRID COORDINATES : E :      PROJECT : NUGGET CLAIMS  
 UTM ZONE : 10            0.0 N :                      0.0 EL :                      0.0  
 SAMPLE TYPE : GRAB SAMPLE

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

SAMPLED BY : MONEY/PATTISON  
 ANALYZED BY : XRAL

DATE : 25-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED ANHYDROUS WT % | NORMALIZED ANHYDROUS CATION % | NORMS | CLASSIFICATIONS AND INDICES                  |
|-------|-------|---------------------------|-------------------------------|-------|--|
| SI02  | 79.70 | 82.10                     | 79.74                         | Q     | 67.04 NA20+K20 2.86 SI02 82.10 SUBALKALINE   |
| AL2O3 | 11.80 | 12.16                     | 13.92                         | C     | 9.43   |
| FE2O3 | 2.39  | 1.69                      | 1.23                          | OR    | 12.91 OLA 0.21 NEA 5.93 QA 93.86 SUBALKALINE |
| FEU   | 0.00  | 0.70                      | 0.56                          | AB    | 7.37   |
| CAO   | 0.24  | 0.25                      | 0.26                          | AN    | 1.07   |
| MGO   | 0.07  | 0.07                      | 0.10                          | LC    | 0.00   |
| NA2O  | 0.76  | 0.78                      | 1.47                          | NE    | 0.00   |
| K2O   | 2.02  | 2.08                      | 2.58                          | KP    | 0.00   |
| TIO2  | 0.14  | 0.14                      | 0.11                          | AC    | 0.00   |
| P2O5  | 0.03  | 0.03                      | 0.03                          | DI    | 0.00   |
| MNO   | 0.00  | 0.50                      | 0.50                          | HE    | 0.00   |
| S     | 0.00  | 0.00                      | 0.00                          | EN    | 0.21   |
| NIO   | 0.00  | 0.00                      | 0.00                          | FS    | 0.00   |
| CR2O3 | 0.00  | 0.50                      | 0.50                          | FU    | 0.00   |
| CO2   | 0.00  | 0.00                      | 0.00                          | FA    | 0.00   |
| H2O+  | 0.00  | 0.00                      | 0.00                          | WO    | 0.00   |
| H2O-  | 0.00  | 0.00                      | 0.00                          | LN    | 0.00   |
| LOI   | 2.62  | 0.00                      | 0.00                          | MT    | 0.00   |
| TOTAL | 97.05 | 98.00                     | 98.00                         | IL    | 0.13   |
|       |       |                           |                               | CR    | 0.75   |
|       |       |                           |                               | HM    | 1.23   |
|       |       |                           |                               | AP    | 0.07   |
|       |       |                           |                               | PD    | 0.00   |
|       |       |                           |                               | NS    | 0.00   |
|       |       |                           |                               | KS    | 0.00   |
|       |       |                           |                               | RU    | 0.04   |
|       |       |                           |                               | AG    | 0.00   |
|       |       |                           |                               | OL    | 0.00   |
|       |       |                           |                               | OPX   | 0.21   |
|       |       |                           |                               | CPX   | 0.00   |
|       |       |                           |                               | ABA   | 7.37   |

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

AU 9.00:CU -10.00:ZN 84.00:RB 49.00:SR 121.00:Y 16.00:ZR 75.00:NB 30.00:BA 654.00:

COMMENTS : QTZ-SER SCHIST WITH 0.5% TO TRACE PY. DISS AND AS STRINGERS VERY RUSTY. MINOR BIOT? 7 M WEST ON ROAD FROM AD02701 SP (SHEARING) 10%

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:43:26

SAMPLE ID # AD02707

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-1  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : IGNEOUS ,MAFIC ,MEDIUM,MASSIVE.  
 FINAL NAME :  
 ALTERATION :  
 MINERALIZATION :  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 25-AUG-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES               |
|-------|-------|------------------------------|----------------------------------|-----------|---|
| SiO2  | 47.10 | 49.34                        | 45.67                            | Q 0.00    | NA20+K20 3.09 SiO2 49.34 SUBALKALINE      |
| Al2O3 | 16.00 | 16.76                        | 18.29                            | C 0.00    |   |
| Fe2O3 | 10.90 | 2.81                         | 1.96                             | OR 1.98   | OLA 37.67 NE* 33.39 Q* 28.94 SUBALKALINE  |
| FeO   | 0.00  | 7.75                         | 6.00                             | AB 24.72  |   |
| CaO   | 10.30 | 10.79                        | 10.70                            | AN 32.37  | CPX 45.29 OL 21.74 OPX 32.98 SUBALKALINE  |
| MgO   | 7.57  | 7.93                         | 10.94                            | LC 0.00   |   |
| Na2O  | 2.63  | 2.75                         | 4.94                             | NE 0.00   | A 14.51 F 48.25 H 37.24 THOLEIITIC        |
| K2O   | 0.32  | 0.34                         | 0.40                             | KP 0.00   |   |
| TiO2  | 1.18  | 1.24                         | 0.86                             | AC 0.00   | AL2O3 16.76 NORM PLAG 56.70 CALC-ALKALINE |
| P2O5  | 0.11  | 0.12                         | 0.09                             | BI 11.71  |   |
| MnO   | 0.17  | 0.18                         | 0.14                             | HE 4.60   | AN 54.79 AB* 41.85 OR 3.35 AVERAGE SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EN 8.53   |   |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS 3.35   | CI 40.67 NORM PLAG 56.70 BASALT           |
| Cr2O3 | 0.01  | 0.01                         | 0.01                             | FO 5.62   |   |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 2.21   |   |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN HIGH MAGNESIUM THOLEIITIC BASALT   |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 47.90 FE 23.45 MG 28.65                |
| LOI   | 2.39  | 0.00                         | 0.00                             | MT 2.93   |   |
| TOTAL | 95.47 | 100.00                       | 100.00                           | IL 1.72   |   |
|       |       |                              |                                  | CR 0.01   | COLOR INDEX : 40.67                       |
|       |       |                              |                                  | HM 0.00   | HASHIMOTO INDEX : 37.90                   |
|       |       |                              |                                  | AP 0.24   |   |
|       |       |                              |                                  | PU 0.00   |   |
|       |       |                              |                                  | NS 0.00   |   |
|       |       |                              |                                  | KS 0.00   |   |
|       |       |                              |                                  | RU 0.00   |   |
|       |       |                              |                                  | AG 0.00   |   |
|       |       |                              |                                  | OL 7.83   |   |
|       |       |                              |                                  | OPX 11.88 |   |
|       |       |                              |                                  | CPX 16.31 |   |
|       |       |                              |                                  | AB* 24.72 |   |

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

CU 78.00:ZN 58.00:RB 24.00:SR 218.00:Y -10.00:ZR 41.00:NB 10.00:BA 104.00:

COMMENTS : GARRD? 1-2% DISSEM ILMENITE  
 NUGGET GRID LINE 12+50E 4+00S

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:44:06

SAMPLE ID # ADO2708

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-2  
 LOT : 0 CONCESSION :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS

GRID COORDINATES : E :

0.0 N : 0.0 EL : 0.0

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

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 25-AUG-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                    |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SI02  | 47.70 | 49.62                        | 45.72                            | 0 0.00    | NA20+K20 4.29 SI02 49.62 SUBALKALINE           |
| AL2O3 | 16.40 | 17.06                        | 18.53                            | C 0.00    |  |
| FE2O3 | 11.70 | 2.31                         | 1.60                             | OK 4.41   | OLA 36.94 NE* 37.78 O* 25.28 ALKALINE          |
| FeO   | 0.00  | 8.87                         | 6.84                             | AP 31.59  |  |
| CaO   | 9.03  | 9.29                         | 9.27                             | AN 28.32  | CPX 41.42 OL 57.99 OPX 0.59 SUBALKALINE        |
| MgO   | 6.98  | 7.26                         | 9.97                             | LC 0.00   |  |
| NA2O  | 3.40  | 2.54                         | 6.32                             | NE 0.00   | A 19.05 F 48.68 M 32.27 THOLEIITIC             |
| K2O   | 0.72  | 0.75                         | 0.88                             | KP 0.00   |  |
| TiO2  | 0.72  | 0.75                         | 0.52                             | AC 0.00   | AL2O3 17.06 NORM PLAG 47.27 CALC-ALKALINE      |
| P2O5  | 0.24  | 0.25                         | 0.19                             | DI 8.38   |  |
| MnO   | 0.19  | 0.20                         | 0.15                             | HE 4.76   | AN 44.03 AB* 49.11 OR 6.85 AVERAGE SERIES      |
| S     | 0.00  | 0.00                         | 0.00                             | EN 0.12   |  |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS 0.07   | CI 35.15 NORM PLAG 47.27 BASALT                |
| CR2O3 | 0.01  | 0.01                         | 0.01                             | FO 11.72  |  |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 6.67   |  |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN HIGH MAGNESIUM THOLEIITIC BASALT        |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 49.26 FE 24.23 MG 26.51                     |
| LOI   | 2.54  | 0.00                         | 0.00                             | MI 2.40   |  |
| TOTAL | 96.14 | 100.00                       | 100.00                           | IL 1.04   | COLOR INDEX : 35.15<br>HASHIMOTO INDEX : 38.25 |
|       |       |                              |                                  | CR 0.01   |  |
|       |       |                              |                                  | HM 0.00   |  |
|       |       |                              |                                  | AP 0.52   |  |
|       |       |                              |                                  | FO 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | KU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | OL 18.39  |  |
|       |       |                              |                                  | OPX 0.19  |  |
|       |       |                              |                                  | CPX 13.14 |  |
|       |       |                              |                                  | AB* 31.59 |  |

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

CU 92.00:ZN 75.00:RB 38.00:SK 586.00:Y 21.00:ZR 26.00:NB -10.00:BA 241.00:

COMMENTS : NUGGET GRID 5-7% 3-10 MM PYROXENE CRYSTALS 14+45E 3+10S

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:44:47

SAMPLE ID # ADO2709

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992

TOWNSHIP :

NTS : 092B13

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-5

LOT : 0 CONCESSION :

GRID COORDINATES : E :

PROJECT # 1142

PROVINCE : BRITISH COLUMBIA

PROJECT : NUGGET CLAIMS

0.0 N : 0.0 EL : 0.0

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,FELDSPAR PORPHYRITIC,MASSIVE.

FINAL NAME :

ALTERATION :

MINERALIZATION : DISSEMINATED AND BLSRS,1-5%,MAGNETITE.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 26-AUG-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 27-NOV-87

TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SI02  | 53.70 | 55.35                        | 54.53                            | Q 20.21   | NA20+K20 2.29 SI02 55.25 SUBALKALINE       |
| AL203 | 11.60 | 11.94                        | 13.88                            | C 0.00    |  |
| FE203 | 18.50 | 4.53                         | 3.36                             | OR 3.89   | OLA 25.27 NE* 17.61 QA 57.13 SUBALKALINE   |
| FEO   | 0.00  | 13.05                        | 10.77                            | AB 16.04  |  |
| CAO   | 6.74  | 6.94                         | 7.33                             | AN 24.74  | CPX 26.07 OL 0.00 OPX 73.93 SUBALKALINE    |
| MGO   | 2.13  | 2.19                         | 3.22                             | LC 0.00   |  |
| MA20  | 1.63  | 1.68                         | 3.21                             | NE 0.00   | A 10.62 F 79.24 M 10.14 THOLEIITIC         |
| K2O   | 0.60  | 0.62                         | 0.79                             | KP 0.00   |  |
| TIO2  | 2.90  | 2.98                         | 2.21                             | AC 0.00   | AL203 11.94 NORM PLAG 60.66 THOLEIITIC     |
| P2O5  | 0.53  | 0.55                         | 0.46                             | UI 1.93   |  |
| MNO   | 0.27  | 0.28                         | 0.23                             | HE 4.56   | AN 55.38 ABA* 35.91 OR 8.71 AVERAGE SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EN 5.42   |  |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 12.94  | CI 34.39 NORM PLAG 60.66 BASALT            |
| CR203 | 0.00  | 0.50                         | 0.50                             | FD 0.00   |  |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |  |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN HIGH IRON THOLEIITIC BASALT         |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 41.21 FE 49.22 MG 9.57                  |
| LOI   | 1.54  | 0.00                         | 0.00                             | MT 5.04   |  |
| TOTAL | 97.18 | 99.00                        | 99.00                            | IL 4.43   |  |
|       |       |                              |                                  | CR 0.75   | COLOR INDEX : 34.39                        |
|       |       |                              |                                  | HM 0.00   | HASHIMOTO INDEX : 24.59                    |
|       |       |                              |                                  | AP 1.22   |  |
|       |       |                              |                                  | PO 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | RU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | OL 0.00   |  |
|       |       |                              |                                  | OPX 18.42 |  |
|       |       |                              |                                  | CPX 6.50  |  |
|       |       |                              |                                  | ABA 16.04 |  |

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

CU 388.00:ZN 144.00:RB -10.00:SR 210.00:Y 29.00:ZR 332.00:NB 49.00:BA 354.00:

COMMENTS : NUGGET CLAIMS EAST TRIBUTARY OF HOLYOAK CREEK 310 M ELEVATION  
 MAGNETITE BEARING MAFIC INTRUSIVE W/ IR AMOUNTS OF CPY



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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:45:28

SAMPLE ID # AD02710

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-6  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, MASSIVE, FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION :  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5% PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 26-AUG-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % |     | NORMS | CLASSIFICATIONS AND INDICES |           |                   |        |             |            |                |
|-------|-------|------------------------------|----------------------------------|-----|-------|-----------------------------|-----------|-------------------|--------|-------------|------------|----------------|
| SiO2  | 59.10 | 62.08                        | 59.95                            | Q   | 19.23 | NA2O+K2O                    | 5.46      | SiO2              | 62.08  | SUBALKALINE |            |                |
| Al2O3 | 11.20 | 11.76                        | 13.39                            | C   | 2.00  | OLA                         | 19.01     | NE*               | 30.51  | QA          | 50.48      | SUBALKALINE    |
| Fe2O3 | 17.10 | 3.07                         | 2.23                             | OR  | 6.61  | CPX                         | 0.00      | OL                | 0.00   | OPX         | 100.00     | SUBALKALINE    |
| FeO   | 0.00  | 13.40                        | 10.82                            | AB  | 41.10 | A                           | 24.47     | F                 | 72.42  | M           | 3.11       | THOLEIITIC     |
| CaO   | 1.39  | 1.46                         | 1.51                             | AN  | 4.61  | AL2O3                       | 11.76     | NORM              | PLAG   | 10.09       | THOLEIITIC |                |
| MgO   | 0.66  | 0.69                         | 1.00                             | LC  | 0.00  | AN                          | 8.82      | AB*               | 78.55  | OR          | 12.63      | AVERAGE SERIES |
| Na2O  | 4.18  | 4.39                         | 8.22                             | ME  | 0.00  | CI                          | 26.00     | NORM              | PLAG   | 10.09       | ANDESITE   |                |
| K2O   | 1.02  | 1.07                         | 1.32                             | KF  | 0.00  | JENSEN                      | HIGH IRON | THOLEIITIC        | BASALT |             |            |                |
| TiO2  | 1.42  | 1.49                         | 1.08                             | AC  | 0.00  | AL                          | 46.75     | FE                | 49.77  | MG          | 3.48       |                |
| P2O5  | 0.41  | 0.43                         | 0.35                             | DI  | 0.00  | COLOR INDEX :               | 26.00     | HASHIMOTO INDEX : | 23.17  |             |            |                |
| MnO   | 0.14  | 0.15                         | 0.12                             | HE  | 0.00  |                             |           |                   |        |             |            |                |
| S     | 0.00  | 0.00                         | 0.00                             | EM  | 2.00  |                             |           |                   |        |             |            |                |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS  | 18.49 |                             |           |                   |        |             |            |                |
| Cr2O3 | 0.00  | 0.50                         | 0.50                             | FO  | 0.00  |                             |           |                   |        |             |            |                |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA  | 0.00  |                             |           |                   |        |             |            |                |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WG  | 0.00  |                             |           |                   |        |             |            |                |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN  | 0.00  |                             |           |                   |        |             |            |                |
| LOI   | 3.00  | 0.00                         | 0.00                             | MT  | 3.34  |                             |           |                   |        |             |            |                |
| TOTAL | 95.19 | 99.00                        | 99.00                            | IL  | 2.17  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | CR  | 0.75  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | Hm  | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | AP  | 0.94  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | PO  | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | MS  | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | KS  | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | KU  | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | AG  | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | UL  | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | OPX | 20.49 |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | CPX | 0.00  |                             |           |                   |        |             |            |                |
|       |       |                              |                                  | AB* | 41.10 |                             |           |                   |        |             |            |                |

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

AU 4.00:CU 410.00:ZN 73.00:KB 34.00:SR 143.00:Y 87.00:ZR 582.00:NB 64.00:BA 563.00:

COMMENTS : NUGGET CLAIMS EAST TRIBUTARY OF HOLYOAK CREEK APPROX 15 M EAST OF CREEK AT 335 M ELEVATION  
 DIORITE? 5-7% DISS MAGNETITE 30 M SOUTH OF A SMALL ADIT

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:46:10

SAMPLE ID # AD02711

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-9  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR POKPHYRITIC,CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .SERICITIZATION.MODERATE.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 26-AUG-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|   | WT %      | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS    | CLASSIFICATIONS AND INDICES                  |
|---|-----------|------------------------------|----------------------------------|----------|--|
| SiO2  | 73.20     | 73.66                        | 67.99                            | Q        | 28.79 NA2O+K2O 6.76 SiO2 73.66 SUBALKALINE   |
| Al2O3   | 14.30     | 14.39                        | 15.66                            | C        | 0.90   |
| Fe2O3   | 1.91      | 1.91                         | 1.33                             | OR       | 4.63 OLA 2.13 NEA 37.89 QA 59.97 SUBALKALINE |
| FeO   | 0.00      | 0.01                         | 0.01                             | AB       | 53.48  |
| CaO   | 1.77      | 1.78                         | 1.76                             | AN       | 7.82   |
| MgO   | 0.87      | 0.88                         | 1.20                             | LC       | 0.00   |
| Na2O  | 5.94      | 5.98                         | 10.70                            | NE       | 0.00   |
| K2O   | 0.78      | 0.78                         | 0.93                             | KP       | 0.00   |
| TiO2  | 0.40      | 0.40                         | 0.28                             | AC       | 0.00   |
| P2O5  | 0.15      | 0.15                         | 0.12                             | DI       | 0.00   |
| MnO   | 0.04      | 0.04                         | 0.03                             | HE       | 0.00   |
| S   | 0.00      | 0.00                         | 0.00                             | EM       | 2.41   |
| NiO   | 0.00      | 0.00                         | 0.00                             | FS       | 0.00   |
| Cr2O3   | 0.01      | 0.01                         | 0.01                             | FO       | 0.00   |
| CO2   | 0.00      | 0.00                         | 0.00                             | FA       | 0.00   |
| H2O+  | 0.00      | 0.00                         | 0.00                             | WO       | 0.00   |
| H2O-  | 0.00      | 0.00                         | 0.00                             | LN       | 0.00   |
| LOI   | 0.77      | 0.00                         | 0.00                             | MT       | 0.00   |
|   |           |                              |                                  | IL       | 0.07   |
| TOTAL   | 99.37     | 100.00                       | 100.00                           | CR       | 0.01   |
|   |           |                              |                                  | Hm       | 1.33   |
|   |           |                              |                                  | AP       | 0.31   |
|   |           |                              |                                  | PO       | 0.00   |
|   |           |                              |                                  | NS       | 0.00   |
|   |           |                              |                                  | KS       | 0.00   |
|   |           |                              |                                  | KU       | 0.24   |
|   |           |                              |                                  | AG       | 0.00   |
|   |           |                              |                                  | UL       | 0.00   |
|   |           |                              |                                  | OPX      | 2.41   |
|   |           |                              |                                  | CPX      | 0.00   |
|   |           |                              |                                  | ABA      | 53.48  |
| TRACE ELEMENTS (P.P.M.) AU,RE,PT,PO,IR,OS,RH,KU,HG (P.P.P.) |           |                              |                                  |          |  |
| CU  | -10.00:ZN | 17.00:RB                     | 30.00:SR                         | 233.00:Y | 36.00:ZR                                     |
|   |           |                              |                                  |          | 114.00:NB                                    |
|   |           |                              |                                  |          | -10.00:BA                                    |
|   |           |                              |                                  |          | 510.00:                                      |

COMMENTS : NUGGET CLAIMS EAST TRIBUTARY OF HOLYOAK CREEK AT 370 M ELEV

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:46:51

SAMPLE ID # ADO2712

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-8  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, FELDSPAR PORPHYRITIC, CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE, CHLORITIZATION, MODERATE.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 26-AUG-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|   | NORMALIZED |                | NORMALIZED |          | NORMS    | CLASSIFICATIONS AND INDICES |           |               |          |             |        |                |
|---|------------|----------------|------------|----------|----------|-----------------------------|-----------|---------------|----------|-------------|--------|----------------|
|   | WT %       | ANHYDROUS WT % | ANHYDROUS  | CATION % |          |                             |           |               |          |             |        |                |
| SI02  | 66.50      | 68.53          | 64.20      | 0        | 31.47    | NA20+K20                    | 3.98      | SI02          | 68.53    | SUBALKALINE |        |                |
| AL203   | 14.80      | 15.35          | 16.84      | C        | 4.02     |                             |           |               |          |             |        |                |
| FE203   | 4.87       | 2.01           | 1.42       | OR       | 5.43     | OLA                         | 12.62     | NEA           | 23.07    | QA          | 63.31  | SUBALKALINE    |
| FE0   | 0.00       | 2.71           | 2.12       | AB       | 27.89    |                             |           |               |          |             |        |                |
| CA0   | 3.19       | 3.29           | 3.30       | AN       | 15.41    | CPX                         | 0.00      | OL            | 0.00     | OPX         | 100.00 | SUBALKALINE    |
| MGO   | 3.44       | 3.55           | 4.95       | LC       | 0.00     |                             |           |               |          |             |        |                |
| NA20  | 2.98       | 3.07           | 5.58       | NE       | 0.00     | A                           | 33.04     | F             | 37.51    | M           | 29.45  | THOLEIITIC     |
| K20   | 0.88       | 0.91           | 1.09       | KP       | 0.00     |                             |           |               |          |             |        |                |
| TIO2  | 0.45       | 0.46           | 0.33       | AC       | 0.00     | AL203                       | 15.25     | NORM          | PLAG     | 35.59       |        | CALC-ALKALINE  |
| P205  | 0.16       | 0.16           | 0.13       | DI       | 0.00     |                             |           |               |          |             |        |                |
| MNO   | 0.06       | 0.06           | 0.05       | HE       | 0.00     | AN                          | 31.62     | ABA           | 57.24    | OR          | 11.14  | AVERAGE SERIES |
| S   | 0.00       | 0.00           | 0.00       | EN       | 9.90     |                             |           |               |          |             |        |                |
| NIO   | 0.00       | 0.00           | 0.00       | FS       | 3.27     | CI                          | 15.95     | NORM          | PLAG     | 35.59       |        | ANDESITE       |
| CR203   | 0.00       | 0.50           | 0.50       | FO       | 0.00     |                             |           |               |          |             |        |                |
| CO2   | 0.00       | 0.00           | 0.00       | FA       | 0.00     |                             |           |               |          |             |        |                |
| H20+  | 0.00       | 0.00           | 0.00       | WD       | 0.00     | JENSEN                      |           | CALC-ALKALINE | ANDESITE |             |        |                |
| H20-  | 0.00       | 0.00           | 0.00       | LN       | 0.00     | AL                          | 65.52     | FE            | 15.23    | MG          | 19.25  |                |
| LUI   | 2.54       | 0.00           | 0.00       | MT       | 2.13     |                             |           |               |          |             |        |                |
|   |            |                |            | IL       | 0.65     |                             |           |               |          |             |        |                |
| TOTAL   | 97.03      | 99.00          | 99.00      | CR       | 0.75     | COLOR INDEX :               | 15.95     |               |          |             |        |                |
|   |            |                |            | HM       | 0.00     | HASHIMOTO INDEX :           | 41.18     |               |          |             |        |                |
|   |            |                |            | AP       | 0.35     |                             |           |               |          |             |        |                |
|   |            |                |            | PO       | 0.00     |                             |           |               |          |             |        |                |
|   |            |                |            | NS       | 0.00     |                             |           |               |          |             |        |                |
|   |            |                |            | KS       | 0.00     |                             |           |               |          |             |        |                |
|   |            |                |            | RU       | 0.00     |                             |           |               |          |             |        |                |
|   |            |                |            | AG       | 0.00     |                             |           |               |          |             |        |                |
|   |            |                |            | UL       | 0.00     |                             |           |               |          |             |        |                |
|   |            |                |            | OPX      | 13.17    |                             |           |               |          |             |        |                |
|   |            |                |            | CPX      | 0.00     |                             |           |               |          |             |        |                |
|   |            |                |            | ABA      | 27.89    |                             |           |               |          |             |        |                |
| TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.) |            |                |            |          |          |                             |           |               |          |             |        |                |
| CU  | 12.00:ZN   | 45.00:RB       | 45.00:SR   | 446.00:Y | 34.00:ZR | 86.00:NB                    | -10.00:BA | 527.00:       |          |             |        |                |

COMMENTS : NUGGET CLAIMS EAST TRIBUTARY OF HOLYOAK CREEK AT 395 M ELEVATION MAY BE MAFIC IN COMPOSITION

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:47:34

SAMPLE ID # A002713

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-12  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, MASSIVE.  
 FINAL NAME :  
 ALTERATION : PERVASIVE, CARBONATIZATION, WEAK.  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5% MAGNETITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 01-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|   | WT %     | NORMALIZED ANHYDROUS WT % | NORMALIZED ANHYDROUS CATION % |          | NORMS    | CLASSIFICATIONS AND INDICES |           |          |         |             |            |                |
|---|----------|---------------------------|-------------------------------|----------|----------|-----------------------------|-----------|----------|---------|-------------|------------|----------------|
| SiO2  | 61.40    | 63.54                     | 61.03                         | Q        | 20.62    | NA2O+K2O                    | 5.02      | SiO2     | 63.54   | SUBALKALINE |            |                |
| Al2O3   | 11.60    | 12.00                     | 13.59                         | C        | 0.00     |                             |           |          |         |             |            |                |
| Fe2O3   | 14.00    | 2.83                      | 2.04                          | OR       | 4.51     | OL*                         | 13.91     | NE*      | 32.22   | Q*          | 53.97      | SUBALKALINE    |
| FeO   | 0.00     | 10.49                     | 8.43                          | AR       | 39.88    |                             |           |          |         |             |            |                |
| CaO   | 3.64     | 3.77                      | 3.88                          | AN       | 11.78    | CPX                         | 23.96     | OL       | 0.00    | OPX         | 76.04      | SUBALKALINE    |
| MgO   | 0.58     | 0.60                      | 0.86                          | LC       | 0.00     |                             |           |          |         |             |            |                |
| Na2O  | 4.14     | 4.28                      | 7.98                          | NE       | 0.00     | A                           | 26.90     | F        | 69.98   | M           | 3.22       | THOLEIITIC     |
| K2O   | 0.71     | 0.73                      | 0.90                          | KF       | 0.00     |                             |           |          |         |             |            |                |
| TiO2  | 1.23     | 1.27                      | 0.92                          | AC       | 0.00     | AL2O3                       | 12.00     | NORM     | PLAG    | 22.80       | THOLEIITIC |                |
| P2O5  | 0.31     | 0.32                      | 0.26                          | DI       | 0.47     |                             |           |          |         |             |            |                |
| MnO   | 0.15     | 0.16                      | 0.13                          | HE       | 3.87     | AN                          | 20.97     | AB*      | 71.01   | OR          | 8.02       | AVERAGE SERIES |
| S   | 0.00     | 0.00                      | 0.00                          | EN       | 1.48     |                             |           |          |         |             |            |                |
| NiO   | 0.00     | 0.00                      | 0.00                          | FS       | 12.29    | CI                          | 23.02     | NORM     | PLAG    | 22.80       | ANDESITE   |                |
| CR2O3   | 0.00     | 0.50                      | 0.50                          | FD       | 0.00     |                             |           |          |         |             |            |                |
| CO2   | 0.00     | 0.00                      | 0.00                          | FA       | 0.00     |                             |           |          |         |             |            |                |
| H2O+  | 0.00     | 0.00                      | 0.00                          | WD       | 0.00     | JENSEN THOLEIITIC ANDESITE  |           |          |         |             |            |                |
| H2O-  | 0.00     | 0.00                      | 0.00                          | LN       | 0.00     | AL                          | 52.24     | FE       | 44.35   | MG          | 3.31       |                |
| LUI   | 1.70     | 0.00                      | 0.00                          | MT       | 3.00     |                             |           |          |         |             |            |                |
| TOTAL   | 96.62    | 99.00                     | 99.00                         | IL       | 1.84     |                             |           |          |         |             |            |                |
|   |          |                           |                               | CR       | 0.75     | COLOR INDEX :               | 23.02     |          |         |             |            |                |
|   |          |                           |                               | HM       | 0.00     | HASHIMOTO INDEX :           | 14.22     |          |         |             |            |                |
|   |          |                           |                               | AP       | 0.70     |                             |           |          |         |             |            |                |
|   |          |                           |                               | PO       | 0.00     |                             |           |          |         |             |            |                |
|   |          |                           |                               | NS       | 0.00     |                             |           |          |         |             |            |                |
|   |          |                           |                               | KS       | 0.00     |                             |           |          |         |             |            |                |
|   |          |                           |                               | RU       | 0.00     |                             |           |          |         |             |            |                |
|   |          |                           |                               | AG       | 0.00     |                             |           |          |         |             |            |                |
|   |          |                           |                               | OL       | 0.00     |                             |           |          |         |             |            |                |
|   |          |                           |                               | OPX      | 13.78    |                             |           |          |         |             |            |                |
|   |          |                           |                               | CPX      | 4.34     |                             |           |          |         |             |            |                |
|   |          |                           |                               | AB*      | 39.88    |                             |           |          |         |             |            |                |
| TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.) |          |                           |                               |          |          |                             |           |          |         |             |            |                |
| AU  | -1.00:CU | 119.00:ZN                 | 57.00:RB                      | 10.00:SR | 153.00:Y | 98.00:ZR                    | 633.00:NB | 75.00:BA | 555.00: |             |            |                |

COMMENTS : DIORITE/QTZ DIORITE. NUGGET GRID TL 10+00S 12+38E 5 M FROM OLD ADIT

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:48:15

SAMPLE ID # ADO2714

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992

FIELD NUMBER : JPN-14

PROJECT # 1142

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

GRID COORDINATES : E :

PROJECT : NUGGET CLAIMS

UTM ZONE : 10

0.0 N : 0.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM, MASSIVE.

FINAL NAME :

ALTERATION : UNKNOWN.

MINERALIZATION : DISSEMINATED AND BLEBS, 1-5% PYRRHOTITE PLUS CHALCOPYRITE.

FORMATION :

SAMPLED BY : JOHN PATTISON

DATE : 01-SEP-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 27-NOV-87

TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED     |                    | NORMS |       | CLASSIFICATIONS AND INDICES |       |       |       |             |       |                     |
|-------|-------|----------------|--------------------|-------|-------|-----------------------------|-------|-------|-------|-------------|-------|---------------------|
|       |       | ANHYDROUS WT % | ANHYDROUS CATION % |       |       |                             |       |       |       |             |       |                     |
| SiO2  | 65.90 | 68.11          | 65.26              | Q     | 27.19 | NA2O+K2O                    | 5.47  | SiO2  | 68.11 | SUBALKALINE |       |                     |
| Al2O3 | 11.50 | 11.89          | 13.42              | C     | 0.00  |                             |       |       |       |             |       |                     |
| Fe2O3 | 11.10 | 2.42           | 1.74               | OR    | 9.55  | OLA                         | 11.46 | NEA   | 29.06 | QA          | 59.48 | SUBALKALINE         |
| FeO   | 0.00  | 8.15           | 6.53               | AB    | 36.29 |                             |       |       |       |             |       |                     |
| CaO   | 2.48  | 3.56           | 2.63               | AN    | 10.64 | CPX                         | 9.29  | OL    | 0.00  | OPX         | 90.71 | SUBALKALINE         |
| MgO   | 0.28  | 0.29           | 0.41               | LC    | 0.00  |                             |       |       |       |             |       |                     |
| Na2O  | 3.78  | 3.91           | 7.26               | NE    | 0.00  | A                           | 34.00 | F     | 64.20 | M           | 1.80  | THOLEIITIC          |
| K2O   | 1.51  | 1.56           | 1.91               | KP    | 0.00  |                             |       |       |       |             |       |                     |
| TiO2  | 0.84  | 0.87           | 0.63               | AC    | 0.00  | AL2O3                       |       | 11.89 | NORM  | PLAG        | 22.68 | THOLEIITIC          |
| P2O5  | 0.15  | 0.16           | 0.13               | DI    | 0.00  |                             |       |       |       |             |       |                     |
| MnO   | 0.09  | 0.09           | 0.08               | HE    | 1.09  | AN                          | 18.84 | ABA   | 64.25 | OR          | 16.91 | AVERAGE SERIES      |
| S     | 0.00  | 0.00           | 0.00               | EN    | 0.79  |                             |       |       |       |             |       |                     |
| NiO   | 0.00  | 0.00           | 0.00               | FS    | 10.67 | CI                          |       | 16.49 | NORM  | PLAG        | 22.68 | ANDESITE            |
| Cr2O3 | 0.00  | 0.50           | 0.50               | FO    | 0.00  |                             |       |       |       |             |       |                     |
| CO2   | 0.00  | 0.00           | 0.00               | FA    | 0.00  |                             |       |       |       |             |       |                     |
| H2O+  | 0.00  | 0.00           | 0.00               | WO    | 0.00  | JENSEN                      |       |       |       |             |       | THOLEIITIC ANDESITE |
| H2O-  | 0.00  | 0.00           | 0.00               | LN    | 0.00  | AL                          | 58.85 | FE    | 39.34 | MG          | 1.81  |                     |
| LOI   | 1.54  | 0.00           | 0.00               | MT    | 2.62  |                             |       |       |       |             |       |                     |
| TOTAL | 96.74 | 99.00          | 99.00              | IL    | 1.25  |                             |       |       |       |             |       |                     |
|       |       |                |                    | CR    | 0.75  | COLOR INDEX :               |       | 16.49 |       |             |       |                     |
|       |       |                |                    | HM    | 0.00  | HASHIMOTO INDEX :           |       | 22.24 |       |             |       |                     |
|       |       |                |                    | AP    | 0.34  |                             |       |       |       |             |       |                     |
|       |       |                |                    | PO    | 0.00  |                             |       |       |       |             |       |                     |
|       |       |                |                    | NS    | 0.00  |                             |       |       |       |             |       |                     |
|       |       |                |                    | KS    | 0.00  |                             |       |       |       |             |       |                     |
|       |       |                |                    | KU    | 0.00  |                             |       |       |       |             |       |                     |
|       |       |                |                    | AG    | 0.00  |                             |       |       |       |             |       |                     |
|       |       |                |                    | OL    | 0.00  |                             |       |       |       |             |       |                     |
|       |       |                |                    | OPX   | 11.45 |                             |       |       |       |             |       |                     |
|       |       |                |                    | CPX   | 1.17  |                             |       |       |       |             |       |                     |
|       |       |                |                    | ABA   | 36.29 |                             |       |       |       |             |       |                     |

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

AU 1.00:CU 135.00:ZN 61.00:RB 51.00:SR 148.00:Y 122.00:ZR 737.00:NB 64.00:AG -0.50:  
 BA 943.00:

COMMENTS : NUGGET GRID 11+95E 9+90S. QUARTZ DIORITE 3% UISS PY-PO-CPY 3-5% DISSEM MAGNETITE

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:48:58

SAMPLE ID # AD02715

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : JPN-15  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :  
 DDH :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0  
 START DEPTH : 0.00 END DEPTH : 0.00

FIELD NAME : PLUTONIC, MAFIC OR MELANOCRATIC, MEDIUM, FELDSPAR PORPHYRITIC, MASSIVE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-5%, MAGNETITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 01-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED ANHYDROUS WT % | NORMALIZED ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                    |
|-------|-------|---------------------------|-------------------------------|-----------|--|
| SI02  | 56.20 | 57.99                     | 56.88                         | Q 18.53   | NA20+K20 3.51 SI02 57.99 SUBALKALINE           |
| AL203 | 11.10 | 11.45                     | 13.24                         | C 0.00    |  |
| FE203 | 18.70 | 3.39                      | 2.51                          | OR 5.11   | OLA 23.42 NE* 23.94 Q* 52.64 SUBALKALINE       |
| FE0   | 0.00  | 14.31                     | 11.74                         | AB 25.61  |  |
| CA0   | 5.36  | 5.53                      | 5.81                          | AN 17.75  | CFX 21.90 OL 0.00 OPX 78.10 SUBALKALINE        |
| MgO   | 1.04  | 1.07                      | 1.57                          | LC 0.00   |  |
| NA20  | 2.61  | 2.69                      | 5.12                          | NE 0.00   | A 15.99 F 79.12 M 4.89 THOLEIITIC              |
| K20   | 0.79  | 0.82                      | 1.02                          | KF 0.00   | AL203 11.45 NORM PLAG 40.94 THOLEIITIC         |
| TI02  | 1.79  | 1.85                      | 1.36                          | AC 0.00   |  |
| P205  | 0.60  | 0.62                      | 0.51                          | DI 0.77   |  |
| MNO   | 0.27  | 0.28                      | 0.23                          | HE 4.85   | AN 36.62 AB* 52.84 OR 10.54 AVERAGE SERIES     |
| S     | 0.00  | 0.00                      | 0.00                          | EN 2.75   |  |
| NiO   | 0.00  | 0.00                      | 0.00                          | FS 17.28  | CI 32.14 NORM PLAG 40.94 BASALT                |
| CR203 | 0.00  | 0.50                      | 0.50                          | FO 0.00   |  |
| CO2   | 0.00  | 0.00                      | 0.00                          | FA 0.00   |  |
| H20+  | 0.00  | 0.00                      | 0.00                          | WO 0.00   | JENSEN HIGH IRON THOLEIITIC BASALT             |
| H20-  | 0.00  | 0.00                      | 0.00                          | LN 0.00   | AL 43.21 FE 51.67 MG 5.12                      |
| LUI   | 1.70  | 0.00                      | 0.00                          | MT 3.76   |  |
| TOTAL | 96.91 | 99.00                     | 99.00                         | IL 2.73   | COLOR INDEX : 32.14<br>HASHIMOTO INDEX : 18.67 |
|       |       |                           |                               | CR 0.75   |  |
|       |       |                           |                               | HM 0.00   |  |
|       |       |                           |                               | AP 1.37   |  |
|       |       |                           |                               | PO 0.00   |  |
|       |       |                           |                               | NS 0.00   |  |
|       |       |                           |                               | KS 0.00   |  |
|       |       |                           |                               | KU 0.00   |  |
|       |       |                           |                               | AG 0.00   |  |
|       |       |                           |                               | UL 0.00   |  |
|       |       |                           |                               | OPX 20.03 |  |
|       |       |                           |                               | CPX 5.62  |  |
|       |       |                           |                               | AB* 25.61 |  |

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

AU 3.00:CU 297.00:ZN 138.00:RB 54.00:SR 202.00:Y 60.00:ZR 454.00:NB 56.00:AG -0.50:  
 HA 596.00:

COMMENTS : NUGGET GRID 11+65E 10+05S. FROM SAME INTRUSIVE BODY AS AD02714 BUT MORE MAFIC PHASE



==== FALCOMBRIDGE LTD =====  
 --- EXPLORATION DIVISION ---

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:49:40

SAMPLE ID # ADO2716

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : DRILL HOLE

FIELD NUMBER : JPN  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0  
 DDH : START DEPTH : 0.00 END DEPTH : 0.00

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,TECTONIZED.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CARBONATIZATION ,MODERATE.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 01-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % |     | NORMS | CLASSIFICATIONS AND INDICES |       |       |       |             |       |                         |
|-------|-------|------------------------------|----------------------------------|-----|-------|-----------------------------|-------|-------|-------|-------------|-------|-------------------------|
| SI02  | 46.40 | 50.83                        | 47.45                            | Q   | 0.00  | NA20+K20                    | 4.73  | SI02  | 50.83 | SUBALKALINE |       |                         |
| AL2O3 | 16.00 | 17.53                        | 19.29                            | C   | 0.00  |                             |       |       |       |             |       |                         |
| FE2O3 | 9.23  | 2.42                         | 1.70                             | OR  | 12.28 | OLA                         | 23.36 | NE*   | 46.10 | Q*          | 30.54 | ALKALINE                |
| FE0   | 0.00  | 6.92                         | 5.40                             | AB  | 24.03 |                             |       |       |       |             |       |                         |
| CA0   | 11.00 | 12.05                        | 12.05                            | AN  | 29.98 | CPX                         | 75.26 | OL    | 24.74 | OPX         | 0.00  | SUBALKALINE             |
| MGO   | 3.84  | 4.21                         | 5.85                             | LC  | 0.00  |                             |       |       |       |             |       |                         |
| NA20  | 2.44  | 2.67                         | 4.84                             | NE  | 0.09  | A                           | 26.24 | F     | 50.44 | M           | 23.32 | THOLEITIC               |
| K20   | 1.88  | 2.06                         | 2.46                             | KP  | 0.00  |                             |       |       |       |             |       |                         |
| TI02  | 0.71  | 0.78                         | 0.55                             | AC  | 0.00  | AL2O3                       |       | 17.53 | NORM  | PLAG        | 55.35 | CALC-ALKALINE           |
| P2O5  | 0.32  | 0.35                         | 0.28                             | DI  | 12.48 |                             |       |       |       |             |       |                         |
| MNO   | 0.16  | 0.18                         | 0.14                             | HE  | 9.90  | AN                          | 45.12 | AB*   | 36.40 | OR          | 18.48 | AVERAGE SERIES          |
| S     | 0.00  | 0.00                         | 0.00                             | EN  | 0.00  |                             |       |       |       |             |       |                         |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS  | 0.00  | CI                          |       | 33.37 | NORM  | PLAG        | 55.35 | BASALT                  |
| CR2O3 | 0.00  | 0.50                         | 0.50                             | FO  | 4.10  |                             |       |       |       |             |       |                         |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA  | 3.25  |                             |       |       |       |             |       |                         |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO  | 0.00  | JENSEN                      |       |       |       |             |       | CALC-ALKALINE BASALT    |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN  | 0.00  | AL                          | 58.57 | FE    | 23.65 | MG          | 17.77 |                         |
| LOI   | 7.93  | 0.00                         | 0.00                             | MT  | 2.55  |                             |       |       |       |             |       |                         |
| TOTAL | 91.27 | 99.00                        | 99.00                            | IL  | 1.09  |                             |       |       |       |             |       | COLOR INDEX : 33.37     |
|       |       |                              |                                  | CR  | 0.75  |                             |       |       |       |             |       | HASHIMOTO INDEX : 29.85 |
|       |       |                              |                                  | HM  | 0.00  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | AP  | 0.74  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | PO  | 0.00  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | NS  | 0.00  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | KS  | 0.00  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | KU  | 0.00  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | AG  | 0.00  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | UL  | 7.35  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | OPX | 0.00  |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | CPX | 22.38 |                             |       |       |       |             |       |                         |
|       |       |                              |                                  | AB* | 24.19 |                             |       |       |       |             |       |                         |

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

AU -1.00:CU 31.00:ZN 63.00:RB 44.00:SR 548.00:Y 15.00:ZR 52.00:NB 24.00:AG -0.50:  
 BA 545.00:

COMMENTS : NUGGET GRID 12+80E - 3+10S . CHLORITE SCHIST WITH 20% BLACK LAPILLI SIZED CHLORITIC CLASTS SHEARED ALONG FOLIATION PLANES (ESSO'S BLT ROCKS)

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:50:22

SAMPLE ID # A002717

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-19  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,MEDIUM,FELDSPAR PORPHYRITIC,MASSIVE.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.  
 MINERALIZATION : NIL.  
 FORMATION :

SAMPLED BY : JOHN PATISON  
 ANALYZED BY : XRAL

DATE : 01-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                    |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SI02  | 48.30 | 50.26                        | 47.05                            | Q 1.05    | NA20+K20 2.89 SI02 50.26 SUBALKALINE           |
| AL203 | 14.70 | 15.30                        | 16.88                            | C 0.00    |  |
| FE203 | 11.90 | 3.10                         | 2.18                             | OR 3.48   | OLA 35.47 NE* 30.11 Q* 34.42 SUBALKALINE       |
| FEO   | 0.00  | 8.35                         | 6.54                             | AB 20.96  |  |
| CAO   | 10.50 | 10.93                        | 10.96                            | AN 29.98  | CPX 48.93 OL 0.00 OPX 51.07 SUBALKALINE        |
| MGO   | 6.96  | 7.24                         | 10.10                            | LC 0.00   |  |
| NA20  | 2.22  | 2.31                         | 4.19                             | NE 0.00   | A 13.60 F 52.37 M 34.04 THOLEIITIC             |
| K2O   | 0.56  | 0.58                         | 0.70                             | KP 0.00   | AL203 15.30 NORM PLAG 58.84 THOLEIITIC         |
| TIO2  | 1.48  | 1.54                         | 1.08                             | AC 0.00   |  |
| PCO5  | 0.17  | 0.18                         | 0.14                             | DI 13.09  |  |
| MNO   | 0.18  | 0.19                         | 0.15                             | HE 5.83   | AN 55.08 AB* 38.52 OR 6.40 AVERAGE SERIES      |
| S     | 0.00  | 0.00                         | 0.00                             | EN 13.66  | CI 44.12 NORM PLAG 58.84 BASALT                |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 6.09   |  |
| CR203 | 0.02  | 0.02                         | 0.02                             | FO 0.00   | JENSEN HIGH MAGNESIUM THOLEIITIC BASALT        |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   | AL 45.69 FE 26.95 MG 27.35                     |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO 0.00   |  |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   |  |
| LOI   | 2.00  | 0.00                         | 0.00                             | MT 3.28   |  |
| TOTAL | 96.10 | 100.00                       | 100.00                           | IL 2.17   | COLOR INDEX : 44.12<br>HASHIMOTO INDEX : 37.15 |
|       |       |                              |                                  | CR 0.02   |  |
|       |       |                              |                                  | HM 0.00   |  |
|       |       |                              |                                  | AP 0.37   |  |
|       |       |                              |                                  | PO 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | KU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | OL 0.00   |  |
|       |       |                              |                                  | OPX 19.75 |  |
|       |       |                              |                                  | CPX 18.92 |  |
|       |       |                              |                                  | AB* 20.96 |  |

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

CU 104.00:ZN 71.00:RB 32.00:SR 246.00:Y 26.00:ZR 52.00:NB 21.00:BA 306.00:

COMMENTS : NUGGET GRID 12+65E 3+65S . GABBRO WITH 5% DISSEM ILMENITE

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:51:03

SAMPLE ID # AD02718

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-20  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH, MASSIVE.  
 FINAL NAME :  
 ALTERATION : PERVASIVE, CARBONATIZATION, MODERATE.  
 MINERALIZATION : NIL.  
 FURMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 01-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES               |
|-------|-------|------------------------------|----------------------------------|-----------|---|
| SiO2  | 50.80 | 55.50                        | 50.75                            | Q 0.00    | NA2O+K2O 6.89 SiO2 55.50 ALKALINE         |
| Al2O3 | 19.00 | 20.76                        | 22.37                            | C 0.00    |   |
| Fe2O3 | 2.20  | 2.37                         | 1.63                             | OR 15.88  | OLA 0.00 NEA 60.48 Q* 39.52 ALKALINE      |
| FeO   | 0.00  | 0.03                         | 0.02                             | AB 36.26  |   |
| CaO   | 10.30 | 11.25                        | 11.02                            | AN 39.49  | CPX100.00 OL 0.00 OPX 0.00 ALKALINE       |
| MgO   | 1.90  | 2.08                         | 2.83                             | LC 0.00   |   |
| Na2O  | 3.82  | 4.17                         | 7.40                             | NE 0.44   | A 61.93 F 19.43 M 18.65 CALC-ALKALINE     |
| K2O   | 3.49  | 2.72                         | 3.18                             | KP 0.00   |   |
| TiO2  | 0.67  | 0.73                         | 0.50                             | AC 0.00   | AL2O3 20.76 NORM PLAG 44.36 CALC-ALKALINE |
| P2O5  | 0.31  | 0.34                         | 0.26                             | DI 11.31  |   |
| MnO   | 0.04  | 0.04                         | 0.03                             | HE 0.00   | AN 35.81 ABA 44.91 OR 19.28 SODIC         |
| S     | 0.00  | 0.00                         | 0.00                             | EN 0.00   |   |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS 0.00   | CI 14.01 NORM PLAG 44.36 HAWAIIITE        |
| Cr2O3 | 0.00  | 0.50                         | 0.50                             | FO 0.00   |   |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |   |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO 3.72   | JENSEN CALC-ALKALINE RHYOLITE             |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 81.67 FE 8.00 MG 10.33                 |
| LOI   | 7.85  | 0.00                         | 0.00                             | MT 0.16   |   |
| TOTAL | 91.52 | 99.00                        | 99.00                            | IL 1.01   |   |
|       |       |                              |                                  | CR 0.75   | COLOR INDEX : 14.01                       |
|       |       |                              |                                  | HM 1.52   | HASHIMOTO INDEX : 23.72                   |
|       |       |                              |                                  | AP 0.70   |   |
|       |       |                              |                                  | PO 0.00   |   |
|       |       |                              |                                  | NS 0.00   |   |
|       |       |                              |                                  | KS 0.00   |   |
|       |       |                              |                                  | RU 0.00   |   |
|       |       |                              |                                  | AG 0.00   |   |
|       |       |                              |                                  | UL 0.00   |   |
|       |       |                              |                                  | OPX 0.00  |   |
|       |       |                              |                                  | CPX 11.31 |   |
|       |       |                              |                                  | ABA 36.99 |   |

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

AU -1.00:CU -10.00:ZN 17.00:RB 68.00:SR 440.00:Y -10.00:ZR 43.00:NB -10.00:BA 398.00:

COMMENTS : NUGGET GRID 12+80E 3+45S. CA AND FE CARB ALTERED CHERTY FELSIC TUFF 5 M SOUTH OF AN E-W TRENDING SOUTH DIPPING FAULT

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:51:46

SAMPLE ID # AD02719

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NIS : 092E13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-25  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC,CRYSTAL.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.  
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 02-OCT-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                    |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SI02  | 57.20 | 59.70                        | 54.17                            | Q 10.52   | NA20+K20 5.42 SI02 59.70 SUBALKALINE           |
| AL203 | 16.90 | 17.64                        | 18.87                            | C 7.29    |  |
| FE203 | 7.49  | 2.36                         | 1.55                             | OR 2.06   | OLA 24.61 NE* 32.61 Q* 42.78 SUBALKALINE       |
| FE0   | 0.00  | 5.00                         | 3.79                             | AB 44.52  |  |
| CA0   | 1.30  | 1.36                         | 1.22                             | AN 5.66   | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE        |
| MGO   | 7.25  | 7.57                         | 10.23                            | LC 0.00   |  |
| NA20  | 4.85  | 5.06                         | 8.90                             | NE 0.00   | A 27.06 F 35.14 M 37.80 THOLEIITIC             |
| K20   | 0.34  | 0.35                         | 0.41                             | KP 0.00   |  |
| TIO2  | 0.67  | 0.70                         | 0.48                             | AC 0.00   | AL203 17.64 NORM PLAG 11.28 CALC-ALKALINE      |
| P205  | 0.14  | 0.15                         | 0.11                             | BI 0.00   |  |
| MNO   | 0.21  | 0.22                         | 0.17                             | HE 0.00   | AN 10.83 AB* 85.23 OR 2.94 K-POOR SERIES       |
| S     | 0.00  | 0.00                         | 0.00                             | EN 20.47  |  |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 6.42   | CI 30.16 NORM PLAG 11.28 ANDESITE              |
| CR203 | 0.00  | 0.50                         | 0.50                             | FO 0.00   |  |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |  |
| H20+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN CALC-ALKALINE BASALT                    |
| H20-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 53.78 FE 17.06 MG 29.17                     |
| LOI   | 3.62  | 0.00                         | 0.00                             | MI 2.32   |  |
| TOTAL | 95.81 | 99.00                        | 99.00                            | IL 0.95   | COLOR INDEX : 30.16<br>HASHIMOTO INDEX : 55.24 |
|       |       |                              |                                  | CR 0.75   |  |
|       |       |                              |                                  | HM 0.00   |  |
|       |       |                              |                                  | AP 0.30   |  |
|       |       |                              |                                  | PO 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | KU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | OL 0.00   |  |
|       |       |                              |                                  | OPX 26.88 |  |
|       |       |                              |                                  | CPX 0.00  |  |
|       |       |                              |                                  | AB* 44.52 |  |

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

CU 24.00:ZN 83.00:RB -10.00:SR 73.00:Y -10.00:ZR 54.00:NB 11.00:BA 192.00:

COMMENTS : NUGGET CLAIMS WHERE HOLYOAK CREEK ENTERS CHEMAINUS RIVER SEVERAL QTZ VEINLETS IN SAMPLE

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:52:27

SAMPLE ID # AD02720

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-28  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC.FELSIC.ASH.QUARTZ PORPHYRITIC.TECTONIZED.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .SERICITIZATION.MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLENDS.5-20% .PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 02-OCT-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|   | WT %     | NORMALIZED     |                    | NORMS     | CLASSIFICATIONS AND INDICES |           |           |          |         |             |        |               |
|---|----------|----------------|--------------------|-----------|-----------------------------|-----------|-----------|----------|---------|-------------|--------|---------------|
|   |          | ANHYDROUS WT % | ANHYDROUS CATION % |           |                             |           |           |          |         |             |        |               |
| SI02  | 48.00    | 58.81          | 61.23              | Q         | 26.94                       | NA20+K20  | 1.36      | SI02     | 58.81   | SUBALKALINE |        |               |
| AL2O3   | 3.82     | 4.68           | 5.74               | C         | 3.61                        |           |           |          |         |             |        |               |
| FE2O3   | 30.50    | 1.98           | 1.56               | OR        | 7.98                        | OL*       | 49.86     | NE*      | 1.13    | QA*         | 49.01  | SUBALKALINE   |
| FE0   | 0.00     | 31.84          | 27.72              | AB        | 1.61                        |           |           |          |         |             |        |               |
| CA0   | 0.12     | 0.15           | 0.16               | AN        | 0.55                        | CPX       | 0.00      | OL       | 0.00    | OPX         | 100.00 | SUBALKALINE   |
| MGO   | 0.78     | 0.96           | 1.48               | LC        | 0.00                        |           |           |          |         |             |        |               |
| NA20  | 0.12     | 0.16           | 0.32               | NE        | 0.00                        | A         | 3.78      | F        | 93.56   | M           | 2.66   | THOLEIITIC    |
| K2O   | 0.98     | 1.20           | 1.60               | KF        | 0.00                        |           |           |          |         |             |        |               |
| TIO2  | 0.12     | 0.15           | 0.12               | AC        | 0.00                        | AL2O3     |           | 4.68     | NORM    | PLAG        | 25.48  | THOLEIITIC    |
| P2O5  | 0.03     | 0.04           | 0.03               | BI        | 0.00                        |           |           |          |         |             |        |               |
| MNO   | 0.01     | 0.01           | 0.01               | HE        | 0.00                        | AN        | 5.42      | AB*      | 15.85   | OR          | 78.73  | K-RICH SERIES |
| S   | 0.00     | 0.00           | 0.00               | EN        | 2.97                        |           |           |          |         |             |        |               |
| NIO   | 0.00     | 0.00           | 0.00               | FS        | 53.66                       | CI        |           | 59.19    | NORM    | PLAG        | 25.48  | BASALT        |
| CR2O3   | 0.02     | 0.02           | 0.02               | FO        | 0.00                        |           |           |          |         |             |        |               |
| CO2   | 0.00     | 0.00           | 0.00               | FA        | 0.00                        |           |           |          |         |             |        |               |
| H2O+  | 0.00     | 0.00           | 0.00               | WO        | 0.00                        |           |           |          |         |             |        |               |
| H2O-  | 0.00     | 0.00           | 0.00               | LN        | 0.00                        |           |           |          |         |             |        |               |
| LOI   | 15.70    | 0.00           | 0.00               | MT        | 2.33                        |           |           |          |         |             |        |               |
| TOTAL   | 81.62    | 100.00         | 100.00             | IL        | 0.23                        |           |           |          |         |             |        |               |
|   |          |                |                    | CR        | 0.03                        |           |           |          |         |             |        |               |
|   |          |                |                    | HM        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | AP        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | PO        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | NS        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | KS        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | RU        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | AG        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | OL        | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | OPX       | 56.63                       |           |           |          |         |             |        |               |
|   |          |                |                    | CPX       | 0.00                        |           |           |          |         |             |        |               |
|   |          |                |                    | AB*       | 1.61                        |           |           |          |         |             |        |               |
| TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.E.) |          |                |                    |           |                             |           |           |          |         |             |        |               |
| AU  | 50.00:CU | -10.00:ZN      | -10.00:RB          | -10.00:SR | -10.00:Y                    | -10.00:ZR | -10.00:NB | 23.00:BA | 481.00: |             |        |               |

COMMENTS : NUGGET CLAIMS JUST SOUTH OF WHERE HOLYOAK CREEK MEETS CHEMAINUS RIVER AT MOUTH OF OLD ADIT 20% PYRITE

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 13:53:10

SAMPLE ID # ADO2721

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC,CRYSTAL ,TECTONIZED.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.  
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 02-OCT-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES              |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SI02  | 69.50 | 72.49                        | 67.49                            | Q 34.10   | NA20+K20 5.83 SI02 72.49 SUBALKALINE     |
| AL2O3 | 13.80 | 14.39                        | 15.79                            | C 6.05    |  |
| FE2O3 | 3.41  | 1.87                         | 1.31                             | OR 12.40  | OL* 9.90 NE* 25.92 Q* 64.18 SUBALKALINE  |
| FE0   | 0.00  | 1.52                         | 1.18                             | AB 33.79  |  |
| CA0   | 0.35  | 0.37                         | 0.36                             | AN 1.27   | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE  |
| MGO   | 2.98  | 3.11                         | 4.31                             | LC 0.00   |  |
| NA20  | 3.59  | 3.74                         | 6.76                             | NE 0.00   | A 48.03 F 26.36 M 25.61 CALC-ALKALINE    |
| K20   | 2.00  | 2.09                         | 2.48                             | KP 0.00   |  |
| TIO2  | 0.29  | 0.30                         | 0.21                             | AC 0.00   | AL2O3 14.39 NORM PLAG 3.63 CALC-ALKALINE |
| P2O5  | 0.08  | 0.08                         | 0.07                             | DI 0.00   |  |
| MNO   | 0.04  | 0.04                         | 0.03                             | HE 0.00   | AN 2.68 AB* 71.19 OR 26.13 K-RICH SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EM 8.63   |  |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 1.70   | CI 12.71 NORM PLAG 3.63 RHYOLITE         |
| CR2O3 | 0.00  | 0.50                         | 0.50                             | FO 0.00   |  |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |  |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN CALC-ALKALINE ANDESITE            |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 69.14 FE 11.98 MG 18.88               |
| LUI   | 2.93  | 0.00                         | 0.00                             | MT 1.96   |  |
| TOTAL | 95.87 | 99.00                        | 99.00                            | IL 0.42   | COLOR INDEX : 12.71                      |
|       |       |                              |                                  | CK 0.75   | HASHIMOTO INDEX : 55.83                  |
|       |       |                              |                                  | HM 0.00   |  |
|       |       |                              |                                  | AP 0.18   |  |
|       |       |                              |                                  | PO 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | RU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | OL 0.00   |  |
|       |       |                              |                                  | OPX 10.33 |  |
|       |       |                              |                                  | CPX 0.00  |  |
|       |       |                              |                                  | AB* 33.79 |  |

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

AU 3.00:CU -10.00:ZN 39.00:RB 50.00:SR 50.00:Y 20.00:ZR 88.00:NB -10.00:BA 902.00:

COMMENTS : NUGGET CLAIMS FROM MOUTH OF ADIT JUST SOUTH OF WHERE HOLYOAK CREEK MEETS CHEMAINUS RIVER 5-7% DISSEM PYRITE



REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:25:22

SAMPLE ID # ADO2723

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092813  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-31  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC, MAFIC, ASH, TECTONIZED.  
 FINAL NAME :  
 ALTERATION : PERVASIVE, CHLORITIZATION, WEAK.  
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5% PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 02-OCT-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED ANHYDROUS WT % | NORMALIZED ANHYDROUS CATION % |     | NORMS | CLASSIFICATIONS AND INDICES |       |       |       |             |        |                                  |
|-------|-------|---------------------------|-------------------------------|-----|-------|-----------------------------|-------|-------|-------|-------------|--------|----------------------------------|
| SI02  | 54.50 | 57.36                     | 52.32                         | Q   | 10.92 | NA20+K20                    | 4.38  | SI02  | 57.36 | SUBALKALINE |        |                                  |
| AL203 | 16.90 | 17.79                     | 19.13                         | C   | 9.66  |                             |       |       |       |             |        |                                  |
| FE203 | 9.53  | 2.34                      | 1.60                          | OR  | 1.84  | OLA                         | 31.36 | NEA   | 26.77 | QA          | 41.86  | SUBALKALINE                      |
| FE0   | 0.00  | 6.92                      | 5.28                          | AB  | 35.92 |                             |       |       |       |             |        |                                  |
| CA0   | 1.09  | 1.15                      | 1.12                          | AN  | 4.79  | CPX                         | 0.00  | OL    | 0.00  | OPX         | 100.00 | SUBALKALINE                      |
| MGO   | 8.54  | 8.99                      | 12.22                         | LC  | 0.00  |                             |       |       |       |             |        |                                  |
| NA20  | 3.86  | 4.06                      | 7.18                          | NE  | 0.00  | A                           | 19.55 | F     | 40.31 | M           | 40.14  | THOLEIITIC                       |
| K20   | 0.30  | 0.33                      | 0.37                          | KP  | 0.00  |                             |       |       |       |             |        |                                  |
| TI02  | 0.72  | 0.76                      | 0.52                          | AC  | 0.00  | AL203                       |       | 17.79 | NORM  | PLAG        | 11.77  | CALC-ALKALINE                    |
| P205  | 0.12  | 0.13                      | 0.10                          | DI  | 0.00  |                             |       |       |       |             |        |                                  |
| MNO   | 0.19  | 0.20                      | 0.15                          | HE  | 0.00  | AN                          | 11.26 | ABA   | 84.42 | OR          | 4.32   | K-POOR SERIES                    |
| S     | 0.00  | 0.00                      | 0.00                          | EN  | 24.44 |                             |       |       |       |             |        |                                  |
| NIO   | 0.00  | 0.00                      | 0.00                          | FS  | 9.23  | CI                          |       | 37.11 | NORM  | PLAG        | 11.77  | ANDESITE                         |
| CR203 | 0.00  | 0.50                      | 0.50                          | FD  | 0.00  |                             |       |       |       |             |        |                                  |
| CO2   | 0.00  | 0.00                      | 0.00                          | FA  | 0.00  |                             |       |       |       |             |        |                                  |
| H2O+  | 0.00  | 0.00                      | 0.00                          | WD  | 0.00  | JENSEN                      |       |       |       |             |        | HIGH MAGNESIUM THOLEIITIC BASALT |
| H2O-  | 0.00  | 0.00                      | 0.00                          | LN  | 0.00  | AL                          | 49.16 | FE    | 19.43 | MG          | 31.41  |                                  |
| LOI   | 4.47  | 0.00                      | 0.00                          | MT  | 2.41  |                             |       |       |       |             |        |                                  |
| TOTAL | 95.01 | 99.00                     | 99.00                         | IL  | 1.04  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | CR  | 0.75  | COLOR INDEX :               |       |       |       |             |        | 37.11                            |
|       |       |                           |                               | HM  | 0.00  | HASHIMOTO INDEX :           |       |       |       |             |        | 64.10                            |
|       |       |                           |                               | AP  | 0.26  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | PO  | 0.00  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | NS  | 0.00  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | KS  | 0.00  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | RU  | 0.00  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | AG  | 0.00  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | OL  | 0.00  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | OPX | 33.67 |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | CPX | 0.00  |                             |       |       |       |             |        |                                  |
|       |       |                           |                               | ABA | 35.92 |                             |       |       |       |             |        |                                  |

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

CU 36.00:ZN 57.00:RB 17.00:SR 56.00:Y 19.00:ZR 28.00:NB -10.00:BA 155.00:

COMMENTS : NUGGET CLAIMS APPROX 70 M SOUTH ALONG CHEMAINUS RIVER FROM HOLYOAK CREEK

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:26:09

SAMPLE ID # AD02724

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-41  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC.MAFIC ,ASH.TECTONIZED.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .CHLORITIZATION.WEAK.  
 MINERALIZATION : BISSEMINATED AND BLEBS.<1% .PYRITE PLUS CHALCOPYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 13-OCT-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES               |
|-------|-------|------------------------------|----------------------------------|-----------|---|
| SI02  | 55.90 | 58.57                        | 53.30                            | Q 10.01   | NA2O+K2O 5.25 SI02 58.57 SUBALKALINE      |
| AL2O3 | 17.20 | 18.02                        | 19.33                            | C 8.37    |   |
| FE2O3 | 8.69  | 2.27                         | 1.56                             | OR 2.25   | OLA 26.30 NE* 31.59 QA 42.11 SUBALKALINE  |
| FE0   | 0.00  | 6.15                         | 4.68                             | AB 42.88  |   |
| CA0   | 1.13  | 1.18                         | 1.15                             | AN 4.83   | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE   |
| MGO   | 7.20  | 7.54                         | 10.23                            | LC 0.00   |   |
| NA2O  | 4.64  | 4.86                         | 8.58                             | NE 0.00   | A 25.01 F 39.04 M 35.95 THOLEIITIC        |
| K2O   | 0.37  | 0.39                         | 0.45                             | KP 0.00   |   |
| TIO2  | 0.67  | 0.70                         | 0.48                             | AC 0.00   | AL2O3 18.02 NORM FLAG 10.12 CALC-ALKALINE |
| P2O5  | 0.14  | 0.15                         | 0.11                             | DI 0.00   |   |
| MNO   | 0.16  | 0.17                         | 0.13                             | HE 0.00   | AN 9.66 ABA 85.83 OR 4.51 K-POOR SERIES   |
| S     | 0.00  | 0.00                         | 0.00                             | EN 20.46  |   |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 8.10   | CI 31.86 NORM FLAG 10.12 ANDESITE         |
| CR2O3 | 0.00  | 0.50                         | 0.50                             | FD 0.00   |   |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   | JENSEN CALC-ALKALINE BASALT               |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | AL 53.10 FE 18.80 MG 28.10                |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   |   |
| LUI   | 3.77  | 0.00                         | 0.00                             | MT 2.34   | COLOR INDEX : 31.86                       |
| TOTAL | 95.44 | 99.00                        | 99.00                            | IL 0.96   | HASHIMOTO INDEX : 56.75                   |
|       |       |                              |                                  | CR 0.75   |   |
|       |       |                              |                                  | HM 0.00   |   |
|       |       |                              |                                  | AP 0.30   |   |
|       |       |                              |                                  | PO 0.00   |   |
|       |       |                              |                                  | NS 0.00   |   |
|       |       |                              |                                  | KS 0.00   |   |
|       |       |                              |                                  | RU 0.00   |   |
|       |       |                              |                                  | AG 0.00   |   |
|       |       |                              |                                  | OL 0.00   |   |
|       |       |                              |                                  | OPX 28.56 |   |
|       |       |                              |                                  | CPX 0.00  |   |
|       |       |                              |                                  | ABA 42.88 |   |

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

CU -10.00:ZN 65.00:RB 23.00:SR 50.00:Y 22.00:ZR 40.00:NB 14.00:BA 198.00:

COMMENTS : NUGGET CLAIMS TAKEN ABOUT 40 M NORTH OF HOLYDAK CREEK IN CHEMAINUS RIVER.  
 TRACE CPY

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:26:55

SAMPLE ID # AD02725

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992

FIELD NUMBER : JPN-42  
LOT : 0 CONCESSION :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS

TOWNSHIP :  
N1S : 092813  
UTM ZONE : 10

GRID COORDINATES : E :

0.0 N : 0.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC.FELSIC.ASH.TECTONIZED.  
FINAL NAME :  
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.  
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : XRAL

DATE : 13-OCT-87  
DATE : 27-NOV-87

ANALYTICAL  
TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % |     | NORMS |
|-------|-------|------------------------------|----------------------------------|-----|-------|
| SiO2  | 65.30 | 67.97                        | 63.09                            | Q   | 26.62 |
| Al2O3 | 14.70 | 15.30                        | 16.74                            | C   | 6.62  |
| Fe2O3 | 5.98  | 2.03                         | 1.42                             | OR  | 9.50  |
| FeO   | 0.00  | 3.77                         | 2.93                             | AB  | 36.34 |
| CaO   | 0.59  | 0.61                         | 0.61                             | AN  | 2.37  |
| MgO   | 3.87  | 4.03                         | 5.57                             | LC  | 0.00  |
| Na2O  | 3.88  | 4.04                         | 7.27                             | NE  | 0.00  |
| K2O   | 1.54  | 1.60                         | 1.90                             | KP  | 0.00  |
| TiO2  | 0.45  | 0.47                         | 0.33                             | AC  | 0.00  |
| P2O5  | 0.10  | 0.10                         | 0.08                             | DI  | 0.00  |
| MnO   | 0.07  | 0.07                         | 0.06                             | HE  | 0.00  |
| S     | 0.00  | 0.00                         | 0.00                             | EM  | 11.15 |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS  | 4.99  |
| Cr2O3 | 0.00  | 0.50                         | 0.50                             | FO  | 0.00  |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA  | 0.00  |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO  | 0.00  |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN  | 0.00  |
| LOI   | 3.77  | 0.00                         | 0.00                             | MT  | 2.13  |
| TOTAL | 96.07 | 99.00                        | 99.00                            | IL  | 0.65  |
|       |       |                              |                                  | CR  | 0.75  |
|       |       |                              |                                  | HM  | 0.00  |
|       |       |                              |                                  | AP  | 0.22  |
|       |       |                              |                                  | PO  | 0.00  |
|       |       |                              |                                  | NS  | 0.00  |
|       |       |                              |                                  | KS  | 0.00  |
|       |       |                              |                                  | RU  | 0.00  |
|       |       |                              |                                  | AG  | 0.00  |
|       |       |                              |                                  | OL  | 0.00  |
|       |       |                              |                                  | OPX | 16.05 |
|       |       |                              |                                  | CPX | 0.00  |
|       |       |                              |                                  | ABA | 36.34 |

CLASSIFICATIONS AND INDICES

|          |                        |           |       |               |        |                |
|----------|------------------------|-----------|-------|---------------|--------|----------------|
| Na2O+K2O | 5.64                   | SiO2      | 67.97 | SUBALKALINE   |        |                |
| OLA      | 15.24                  | NE*       | 27.60 | Q*            | 57.17  | SUBALKALINE    |
| CPX      | 0.00                   | OL        | 0.00  | OPX           | 100.00 | SUBALKALINE    |
| A        | 36.94                  | F         | 36.68 | M             | 26.38  | THOLEIITIC     |
| AL2O3    | 15.30                  | NORM PLAG | 6.13  | CALC-ALKALINE |        |                |
| AN       | 4.92                   | ABA*      | 75.37 | OR            | 19.71  | AVERAGE SERIES |
| CI       | 18.83                  | NORM PLAG | 6.13  | DACITE        |        |                |
| JENSEN   | CALC-ALKALINE ANDESITE |           |       |               |        |                |
| AL       | 61.90                  | FE        | 17.50 | MG            | 20.60  |                |

COLOR INDEX : 18.83  
HASHIMOTO INDEX : 54.76

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

CU 10.00:ZN 31.00:RB 37.00:SR 23.00:Y 12.00:ZR 98.00:NB 12.00:BA 758.00:

COMMENTS : NUGGET CLAIMS APPROX 50 M NORTH OF WHERE HOLYOAK CREEK MEETS CHEMAINUS RIVER. WEAKLY CHLORITIC  
OCCAS QTZ EYE AND LAPILLI SIZED CHERTY FRAGS

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:27:41

SAMPLE ID # ADO2726

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-43  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,TECTONIZED.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.  
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 13-OCT-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : XRF + ATOMIC ABSORPTION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SI02  | 68.60 | 70.94                        | 65.99                            | Q 30.80   | NA20+K20 5.38 SI02 70.94 SUBALKALINE       |
| AL203 | 13.90 | 14.37                        | 15.76                            | C 4.07    |  |
| FE203 | 4.05  | 1.89                         | 1.22                             | OR 8.17   | OLA 11.08 NE* 27.59 QA 61.33 SUBALKALINE   |
| FE0   | 0.00  | 2.07                         | 1.61                             | AB 36.09  |  |
| CA0   | 1.51  | 1.56                         | 1.56                             | AN 7.10   | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE    |
| MGO   | 3.15  | 3.26                         | 4.52                             | LC 0.00   |  |
| NA20  | 3.87  | 4.00                         | 7.22                             | NE 0.00   | A 43.35 F 30.38 M 26.26 THOLEIITIC         |
| K20   | 1.33  | 1.38                         | 1.63                             | KP 0.00   |  |
| TIO2  | 0.33  | 0.34                         | 0.24                             | AC 0.00   | AL203 14.37 NORM PLAG 16.44 CALC-ALKALINE  |
| P205  | 0.10  | 0.10                         | 0.08                             | BI 0.00   |  |
| MNO   | 0.09  | 0.09                         | 0.07                             | HE 0.00   | AN 13.83 ABA 70.26 OR 15.91 AVERAGE SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EN 9.03   | CI 14.06 NORM PLAG 16.44 DACITE            |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 2.56   |  |
| CR203 | 0.00  | 0.50                         | 0.50                             | FO 0.00   | JENSEN CALC-ALKALINE ANDESITE              |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   | AL 67.01 FE 13.79 MG 19.20                 |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO 0.00   |  |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   |  |
| LOI   | 2.93  | 0.00                         | 0.00                             | MT 1.99   |  |
| TOTAL | 96.70 | 99.00                        | 99.00                            | IL 0.48   |  |
|       |       |                              |                                  | CR 0.75   | COLOR INDEX : 14.06                        |
|       |       |                              |                                  | Hm 0.00   | HASHIMOTO INDEX : 45.44                    |
|       |       |                              |                                  | AP 0.22   |  |
|       |       |                              |                                  | PU 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | RU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | OL 0.00   |  |
|       |       |                              |                                  | OPX 11.59 |  |
|       |       |                              |                                  | CPX 0.00  |  |
|       |       |                              |                                  | ABA 36.09 |  |

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

AU -1.00:CU -10.00:ZN 37.00:RB 34.00:SK 57.00:Y 21.00:ZR 105.00:NB 23.00:BA 547.00:

COMMENTS : NUGGET CLAIMS CHEMAINUS RIVER 65 M NORTH OF WHERE HOLYOAK CREEK MEETS CHEMAINUS RIVER WEAK FE CARBONATE ALTERATION

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:28:27

SAMPLE ID # AD02727

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092813  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-45  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANIC,FELSIC,FINE,FELDSPAR PORPHYRITIC,MASSIVE.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5X.PYRITE.  
 FORMATION :

SAMPLED BY : JOHN PATTISON  
 ANALYZED BY : XRAL

DATE : 13-OCT-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES |                |            |               |
|-------|-------|------------------------------|----------------------------------|-----------|-----------------------------|----------------|------------|---------------|
|       |       |                              |                                  |           | NA2O+K2O                    | SiO2           |            |               |
| SiO2  | 75.20 | 76.58                        | 71.32                            | Q 37.64   | NA2O+K2O 5.69               | SiO2 76.58     |            | SUBALKALINE   |
| Al2O3 | 11.60 | 11.81                        | 12.97                            | C 2.20    |                             |                |            |               |
| Fe2O3 | 3.12  | 1.77                         | 1.24                             | QR 3.15   | OLA 4.99                    | NEA 30.98      | QA 64.03   | SUBALKALINE   |
| FeO   | 0.00  | 1.26                         | 0.98                             | AB 46.61  |                             |                |            |               |
| CaO   | 0.48  | 0.49                         | 0.49                             | AN 2.04   | CPX 0.00                    | OL 0.00        | OPX 100.00 | SUBALKALINE   |
| MgO   | 1.96  | 2.00                         | 2.77                             | LC 0.00   |                             |                |            |               |
| Na2O  | 5.07  | 5.16                         | 9.32                             | NE 0.00   | A 53.97                     | F 27.11        | M 18.92    | CALC-ALKALINE |
| K2O   | 0.52  | 0.53                         | 0.63                             | KP 0.00   |                             |                |            |               |
| TiO2  | 0.24  | 0.24                         | 0.17                             | AC 0.00   | AL2O3 11.81                 | NORM PLAG 4.19 |            | THOLEITIC     |
| P2O5  | 0.06  | 0.06                         | 0.05                             | DI 0.00   |                             |                |            |               |
| MnO   | 0.06  | 0.06                         | 0.05                             | HE 0.00   | AN 3.93                     | ABA 89.99      | OR 6.08    | K-POOR SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EN 5.54   |                             |                |            |               |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS 0.47   | CI 9.21                     | NORM PLAG 4.19 |            | RHYOLITE      |
| Cr2O3 | 0.02  | 0.02                         | 0.01                             | FO 0.00   |                             |                |            |               |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |                             |                |            |               |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO 0.00   | JENSEN CALC-ALKALINE DACITE |                |            |               |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 71.31                    | FE 13.45       | MG 15.24   |               |
| LUI   | 1.70  | 0.00                         | 0.00                             | MI 1.86   |                             |                |            |               |
| TOTAL | 98.19 | 100.00                       | 100.00                           | IL 0.34   | COLOR INDEX : 8.21          |                |            |               |
|       |       |                              |                                  | CR 0.02   | HASHIMOTO INDEX : 30.88     |                |            |               |
|       |       |                              |                                  | HM 0.00   |                             |                |            |               |
|       |       |                              |                                  | AP 0.13   |                             |                |            |               |
|       |       |                              |                                  | PO 0.00   |                             |                |            |               |
|       |       |                              |                                  | NS 0.00   |                             |                |            |               |
|       |       |                              |                                  | KS 0.00   |                             |                |            |               |
|       |       |                              |                                  | RU 0.00   |                             |                |            |               |
|       |       |                              |                                  | AG 0.00   |                             |                |            |               |
|       |       |                              |                                  | UL 0.00   |                             |                |            |               |
|       |       |                              |                                  | OPX 6.01  |                             |                |            |               |
|       |       |                              |                                  | CPX 0.00  |                             |                |            |               |
|       |       |                              |                                  | ABA 46.61 |                             |                |            |               |

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

CU -10.00:ZN 40.00:RB 25.00:SR 32.00:Y 24.00:ZR 100.00:NB 16.00:BA 274.00:

COMMENTS : NUGGET CLAIMS ON CHEMAINUS RIVER ABOUT 100 M NORTH OF HOLYOAK CREEK

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:29:13

SAMPLE ID # AD02751

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 87142DM001  
LOT : 0 CONCESSION :  
  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : PLUTONIC, MAFIC OR MELANOCRATIC, MEDIUM, FELDSPAR PORPHYRITIC.  
FINAL NAME :  
ALTERATION : METAMORPHOSED . EPIDOTIZATION . LOOK AT COMMENTS.  
MINERALIZATION :  
FORMATION :

SAMPLED BY : DAVID MONEY  
ANALYZED BY : XRAL

DATE : 25-SEP-87  
DATE : 27-NOV-87

ANALYTICAL  
TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                    |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SiO2  | 47.40 | 49.32                        | 46.17                            | Q 0.00    | NA20+K20 2.58 SiO2 49.32 SUBALKALINE           |
| Al2O3 | 14.70 | 15.30                        | 16.88                            | C 0.00    |  |
| Fe2O3 | 12.30 | 3.03                         | 2.13                             | OR 2.61   | OL* 38.99 NE* 29.23 Q* 31.77 SUBALKALINE       |
| FeO   | 0.00  | 8.79                         | 6.88                             | AB 19.45  |  |
| CaO   | 11.10 | 11.55                        | 11.59                            | AN 31.16  | CPX 50.34 OL 2.07 OPX 47.59 SUBALKALINE        |
| MgO   | 7.33  | 7.63                         | 10.64                            | LC 0.00   |  |
| Na2O  | 2.06  | 2.14                         | 3.89                             | NE 0.00   | A 11.88 F 53.01 M 25.11 THOLEIITIC             |
| K2O   | 0.42  | 0.44                         | 0.52                             | KP 0.00   |  |
| TiO2  | 1.41  | 1.47                         | 1.03                             | AC 0.00   | AL2O3 15.30 NORM PLAG 61.57 THOLEIITIC         |
| P2O5  | 0.12  | 0.12                         | 0.10                             | BI 14.19  |  |
| MnO   | 0.18  | 0.19                         | 0.15                             | HE 6.56   | AN 58.55 AB* 36.54 OR 4.91 AVERAGE SERIES      |
| S     | 0.00  | 0.00                         | 0.00                             | EN 13.41  |  |
| NiO   | 0.00  | 0.00                         | 0.00                             | FS 6.21   | CI 46.49 NORM PLAG 61.57 BASALT                |
| Cr2O3 | 0.02  | 0.02                         | 0.02                             | FO 0.58   |  |
| Co2   | 0.00  | 0.00                         | 0.00                             | FA 0.27   |  |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO 0.00   | JENSEN HIGH MAGNESIUM THOLEIITIC BASALT        |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 44.75 FE 27.04 MG 28.21                     |
| LOI   | 2.00  | 0.00                         | 0.00                             | MT 3.20   |  |
| TOTAL | 96.10 | 100.00                       | 100.00                           | IL 2.07   | COLOR INDEX : 46.49<br>HASHIMOTO INDEX : 37.06 |
|       |       |                              |                                  | CR 0.02   |  |
|       |       |                              |                                  | HM 0.00   |  |
|       |       |                              |                                  | AP 0.26   |  |
|       |       |                              |                                  | PU 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | RU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | UL 0.85   |  |
|       |       |                              |                                  | OPX 19.62 |  |
|       |       |                              |                                  | CPX 20.75 |  |
|       |       |                              |                                  | AB* 19.45 |  |

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

CU 71.00:ZN 66.00:RB 18.00:SR 213.00:Y 19.00:ZR 55.00:NB 26.00:BA 115.00:

COMMENTS : NUGGET LINE 9+00E / 3+50S GABBRO PLAGIOPHYRIC (APPROX 15 TO 20 % 1-2 MM) WITH MINOR EPIDOTE GRAINS (SAUSSEKITATION?)  
SSPJ002/72E. PJ146/76W. PJ280/10N. WELL DEVELOPED JOINTING

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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:29:58

SAMPLE ID # AD02752

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 87142DM002  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC.MAFIC ,ASH,FELDSPAR PORPHYRITIC.MAFIC PORPHYRITIC ,CRYSTAL.  
 FINAL NAME :  
 ALTERATION : METAMORPHOSED.  
 MINERALIZATION :  
 FORMATION :

SAMPLED BY : DAVID MONEY  
 ANALYZED BY : XRAL

DATE : 25-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED ANHYDROUS WT % | NORMALIZED ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                    |
|-------|-------|---------------------------|-------------------------------|-----------|--|
| SiO2  | 47.50 | 49.88                     | 45.68                         | Q 0.00    | Na2O+K2O 4.81 SiO2 49.88 ALKALINE              |
| Al2O3 | 16.50 | 17.33                     | 18.71                         | C 0.00    |  |
| Fe2O3 | 11.90 | 2.44                      | 1.68                          | OR 5.96   | OLA 42.17 NE* 33.66 Q* 24.17 SUBALKALINE       |
| FeO   | 0.00  | 9.05                      | 6.93                          | AR 33.66  |  |
| CaO   | 6.38  | 6.70                      | 6.57                          | AN 26.96  | CPX 11.20 OL 74.77 OPX 14.03 SUBALKALINE       |
| MgO   | 8.04  | 8.44                      | 11.52                         | LC 0.00   |  |
| Na2O  | 3.61  | 3.79                      | 6.73                          | NE 0.00   | A 19.63 F 45.90 M 34.47 THOLEIITIC             |
| K2O   | 0.97  | 1.02                      | 1.19                          | KP 0.00   |  |
| TiO2  | 0.82  | 0.86                      | 0.59                          | AC 0.00   | AL2O3 17.33 NORM PLAG 44.47 CALC-ALKALINE      |
| P2O5  | 0.26  | 0.27                      | 0.21                          | DI 2.16   |  |
| MnO   | 0.21  | 0.22                      | 0.17                          | HE 1.16   | AN 40.49 AB* 50.56 OR 8.95 SODIC               |
| S     | 0.00  | 0.00                      | 0.00                          | EN 2.71   |  |
| H2O   | 0.00  | 0.00                      | 0.00                          | FS 1.45   | CI 33.37 NORM PLAG 44.47 HAWAIIITE             |
| CR2O3 | 0.00  | 0.50                      | 0.50                          | FO 14.44  |  |
| CO2   | 0.00  | 0.00                      | 0.00                          | FA 7.73   |  |
| H2O+  | 0.00  | 0.00                      | 0.00                          | WO 0.00   | JENSEN HIGH MAGNESIUM THOLEIITIC BASALT        |
| H2O-  | 0.00  | 0.00                      | 0.00                          | LN 0.00   | AL 47.23 FE 23.68 MG 29.10                     |
| LOI   | 3.16  | 0.00                      | 0.00                          | MT 2.52   |  |
| TOTAL | 95.22 | 99.00                     | 99.00                         | IL 1.19   | COLOR INDEX : 33.37<br>HASHIMOTO INDEX : 47.42 |
|       |       |                           |                               | CR 0.75   |  |
|       |       |                           |                               | Hm 0.00   |  |
|       |       |                           |                               | AP 0.57   |  |
|       |       |                           |                               | PU 0.00   |  |
|       |       |                           |                               | NS 0.00   |  |
|       |       |                           |                               | KS 0.00   |  |
|       |       |                           |                               | KU 0.00   |  |
|       |       |                           |                               | AG 0.00   |  |
|       |       |                           |                               | OL 32.18  |  |
|       |       |                           |                               | OPX 4.16  |  |
|       |       |                           |                               | CPX 3.32  |  |
|       |       |                           |                               | AB* 33.66 |  |

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

CU 40.00:ZN 72.00:RB 23.00:SR 444.00:Y 19.00:ZR 39.00:NB 11.00:BA 517.00:

COMMENTS : \$PS318/73E. NUGGET 11+40E/2+75S, MAFIC XTL TUFF WITH 5-10% <1MM PLAG AND 3% CHL

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:30:43

SAMPLE ID # AD02753

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992

FIELD NUMBER : 87142DM004

PROJECT # 1142

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092B13

GRID COORDINATES : E :

PROJECT : NUGGET CLAIMS

UTM ZONE : 10

0.0 N : 0.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC,CRYSTAL.

FINAL NAME :

ALTERATION : UNKNOWN.

MINERALIZATION :

FORMATION :

SAMPLED BY : DAVID MONEY

DATE : 25-SEP-87

ANALYTICAL

ANALYZED BY : XRAL

DATE : 27-NOV-87

TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     |
|-------|-------|------------------------------|----------------------------------|-----------|
| SI02  | 45.10 | 47.22                        | 44.24                            | Q 0.00    |
| AL203 | 19.50 | 20.42                        | 22.55                            | C 0.00    |
| FE203 | 10.10 | 2.59                         | 1.82                             | OR 0.44   |
| FE0   | 0.00  | 7.19                         | 5.63                             | AB 19.30  |
| CA0   | 13.99 | 14.55                        | 14.61                            | AN 46.49  |
| MGO   | 4.22  | 4.42                         | 6.17                             | LC 0.00   |
| NA20  | 2.02  | 2.12                         | 3.86                             | NE 0.00   |
| K20   | 0.07  | 0.07                         | 0.09                             | KP 0.00   |
| TI02  | 0.97  | 1.02                         | 0.72                             | AC 0.00   |
| P205  | 0.14  | 0.15                         | 0.12                             | DI 11.61  |
| MNO   | 0.24  | 0.25                         | 0.20                             | HE 8.85   |
| S     | 0.00  | 0.00                         | 0.00                             | EN 1.56   |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 1.19   |
| CR203 | 0.00  | 0.50                         | 0.50                             | FO 3.73   |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 2.85   |
| H20+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   |
| H20-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   |
| LOI   | 3.08  | 0.00                         | 0.00                             | MT 2.73   |
| TOTAL | 95.50 | 99.00                        | 99.00                            | IL 1.43   |
|       |       |                              |                                  | CR 0.75   |
|       |       |                              |                                  | HM 0.00   |
|       |       |                              |                                  | AP 0.31   |
|       |       |                              |                                  | PO 0.00   |
|       |       |                              |                                  | NS 0.00   |
|       |       |                              |                                  | KS 0.00   |
|       |       |                              |                                  | RU 0.00   |
|       |       |                              |                                  | AG 0.00   |
|       |       |                              |                                  | OL 6.58   |
|       |       |                              |                                  | OPX 2.74  |
|       |       |                              |                                  | CPX 20.47 |
|       |       |                              |                                  | ABA 19.30 |

CLASSIFICATIONS AND INDICES

|                               |       |      |       |             |               |               |
|-------------------------------|-------|------|-------|-------------|---------------|---------------|
| NA20+K20                      | 2.20  | SI02 | 47.22 | SUBALKALINE |               |               |
| OL*                           | 30.17 | NE*  | 40.46 | Q*          | 29.37         | SUBALKALINE   |
| CPX                           | 68.71 | OL   | 22.09 | OPX         | 9.20          | SUBALKALINE   |
| A                             | 13.63 | F    | 58.98 | M           | 27.39         | THOLEIITIC    |
| AL203                         | 20.42 | NORM | PLAG  | 70.66       | CALC-ALKALINE |               |
| AN                            | 70.20 | AB*  | 29.14 | OR          | 0.66          | K-POOR SERIES |
| CI                            | 33.95 | NORM | PLAG  | 70.66       | BASALT        |               |
| JENSEN CALC-ALKALINE ANDESITE |       |      |       |             |               |               |
| AL                            | 60.79 | FE   | 22.57 | MG          | 16.63         |               |
| COLOR INDEX : 33.95           |       |      |       |             |               |               |
| HASHIMOTO INDEX : 21.22       |       |      |       |             |               |               |

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

CU 13.00:ZN 43.00:RB -10.00:SR 537.00:Y 31.00:ZR 15.00:NB -10.00:BA 62.00:

COMMENTS : NUGGET L11+50E / CLIFF @ 400S FELSIC TUFF BELOW GABBRO AND CHLOR. SHEAR ( AT 273 DEGREES) 5-10% PLAG GRAINS



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

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:31:28

SAMPLE ID # AD02754

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 87142DM005  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : METAMORPHIC .FELSIC,FINE,QUARTZ,WHITE MICA.  
 FINAL NAME :  
 ALTERATION : METAMORPHOSED.  
 MINERALIZATION :  
 FORMATION :

SAMPLED BY : DAVID MONEY  
 ANALYZED BY : XRAL

DATE : 25-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES               |
|-------|-------|------------------------------|----------------------------------|-----------|---|
| SI02  | 67.80 | 70.49                        | 66.67                            | Q 33.64   | NA20+K20 5.23 SI02 70.49 SUBALKALINE      |
| AL203 | 14.70 | 15.28                        | 17.04                            | C 3.23    |   |
| FE203 | 4.67  | 1.97                         | 1.40                             | OR 12.31  | OLA 6.28 NE* 24.84 QA* 68.88 SUBALKALINE  |
| FE0   | 0.00  | 2.60                         | 2.06                             | AR 27.74  |   |
| CA0   | 2.84  | 2.95                         | 2.99                             | AN 13.99  | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE   |
| MGO   | 0.78  | 0.81                         | 1.14                             | LC 0.00   |   |
| NA20  | 2.91  | 2.03                         | 5.55                             | NE 0.00   | A 50.24 F 41.97 M 7.79 THOLEIITIC         |
| K20   | 2.12  | 2.20                         | 2.66                             | KP 0.00   | AL303 15.28 NORM PLAG 33.52 CALC-ALKALINE |
| TIO2  | 0.29  | 0.41                         | 0.29                             | AC 0.00   | AN 35.42 ABA 50.40 OR 24.19 K-RICH SERIES |
| P205  | 0.14  | 0.15                         | 0.12                             | DI 0.00   |   |
| MNO   | 0.11  | 0.11                         | 0.09                             | HE 0.00   | CI 8.28 NORM PLAG 33.52 DACITE            |
| S     | 0.00  | 0.00                         | 0.00                             | EN 2.29   |   |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 3.32   | JENSEN THOLEIITIC RHYOLITE                |
| CR203 | 0.00  | 0.50                         | 0.50                             | FD 0.00   | AL 77.39 FE 17.42 MG 5.19                 |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |   |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | COLOR INDEX : 8.28                        |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | HASHIMOTO INDEX : 33.53                   |
| LOI   | 3.54  | 0.00                         | 0.00                             | MT 2.10   |   |
| TOTAL | 96.17 | 99.00                        | 99.00                            | IL 0.58   |   |
|       |       |                              |                                  | CR 0.75   |   |
|       |       |                              |                                  | Hm 0.00   |   |
|       |       |                              |                                  | AP 0.31   |   |
|       |       |                              |                                  | PO 0.00   |   |
|       |       |                              |                                  | NS 0.00   |   |
|       |       |                              |                                  | KS 0.00   |   |
|       |       |                              |                                  | RU 0.00   |   |
|       |       |                              |                                  | AG 0.00   |   |
|       |       |                              |                                  | OL 0.00   |   |
|       |       |                              |                                  | OPX 5.61  |   |
|       |       |                              |                                  | CPX 0.00  |   |
|       |       |                              |                                  | ABA 27.74 |   |

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

CU -10.00:ZN 47.00:RB 39.00:SR 93.00:Y 21.00:ZR 108.00:NB -10.00:BA 725.00:

COMMENTS : NUGGET 1140E/ 445S. QIZ-SER-CHL SCHIST  
 #PS296/70S.

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:32:13

SAMPLE ID # AD02755

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NIS : 092R13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 87142DM009  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : METAMORPHIC .MAFIC .FINE,CHLORITE,SCHIST.  
 FINAL NAME :  
 ALTERATION : METAMORPHOSED.  
 MINERALIZATION :  
 FORMATION :

SAMPLED BY : DAVID MONEY  
 ANALYZED BY : XRAL

DATE : 29-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED     |                    | NORMS | CLASSIFICATIONS AND INDICES |                   |       |               |        |             |        |                |
|-------|-------|----------------|--------------------|-------|-----------------------------|-------------------|-------|---------------|--------|-------------|--------|----------------|
|       |       | ANHYDROUS WT % | ANHYDROUS CATION % |       |                             |                   |       |               |        |             |        |                |
| SiO2  | 52.30 | 55.80          | 52.55              | Q     | 21.21                       | NA2O+K2O          | 3.10  | SiO2          | 55.80  | SUBALKALINE |        |                |
| Al2O3 | 19.40 | 20.70          | 22.98              | C     | 17.26                       | OLA               | 29.90 | NEA           | 19.06  | QA          | 51.03  | SUBALKALINE    |
| Fe2O3 | 13.60 | 2.59           | 1.84               | OR    | 3.02                        | CPX               | 0.00  | OL            | 0.00   | OPX         | 100.00 | SUBALKALINE    |
| FeO   | 0.00  | 10.72          | 8.45               | AB    | 23.77                       |                   |       |               |        |             |        |                |
| CaO   | 0.38  | 0.41           | 0.41               | AN    | 0.91                        |                   |       |               |        |             |        |                |
| MgO   | 4.94  | 5.27           | 7.40               | LC    | 0.00                        |                   |       |               |        |             |        |                |
| Na2O  | 2.44  | 3.60           | 4.75               | NE    | 0.00                        | A                 | 14.49 | F             | 60.92  | M           | 24.59  | THOLEIITIC     |
| K2O   | 0.47  | 0.50           | 0.60               | KP    | 0.00                        | AL2O3             | 20.70 | NORM          | PLAG   | 3.68        |        | CALC-ALKALINE  |
| TiO2  | 0.93  | 0.99           | 0.70               | AC    | 0.00                        |                   |       |               |        |             |        |                |
| P2O5  | 0.16  | 0.17           | 0.14               | DI    | 0.00                        |                   |       |               |        |             |        |                |
| MnO   | 0.22  | 0.23           | 0.19               | HE    | 0.00                        | AN                | 3.28  | ABA           | 85.83  | OR          | 10.89  | AVERAGE SERIES |
| S     | 0.00  | 0.00           | 0.00               | EN    | 14.80                       |                   |       |               |        |             |        |                |
| NiO   | 0.00  | 0.00           | 0.00               | FS    | 15.02                       | CI                | 33.98 | NORM          | PLAG   | 3.68        |        | ANDESITE       |
| Cr2O3 | 0.00  | 0.50           | 0.50               | FO    | 0.00                        |                   |       |               |        |             |        |                |
| CO2   | 0.00  | 0.00           | 0.00               | FA    | 0.00                        |                   |       |               |        |             |        |                |
| H2O+  | 0.00  | 0.00           | 0.00               | WO    | 0.00                        | JENSEN            |       | CALC-ALKALINE | BASALT |             |        |                |
| H2O-  | 0.00  | 0.00           | 0.00               | LN    | 0.00                        | AL                | 55.30 | FE            | 26.89  | Mg          | 17.81  |                |
| LOI   | 5.00  | 0.00           | 0.00               | MT    | 2.76                        |                   |       |               |        |             |        |                |
|       |       |                |                    | IL    | 1.41                        |                   |       |               |        |             |        |                |
| TOTAL | 93.71 | 99.00          | 99.00              | CR    | 0.75                        | COLOR INDEX :     | 33.98 |               |        |             |        |                |
|       |       |                |                    | Hm    | 0.00                        | HASHIMOTO INDEX : | 65.74 |               |        |             |        |                |
|       |       |                |                    | AP    | 0.36                        |                   |       |               |        |             |        |                |
|       |       |                |                    | PO    | 0.00                        |                   |       |               |        |             |        |                |
|       |       |                |                    | NS    | 0.00                        |                   |       |               |        |             |        |                |
|       |       |                |                    | KS    | 0.00                        |                   |       |               |        |             |        |                |
|       |       |                |                    | KU    | 0.00                        |                   |       |               |        |             |        |                |
|       |       |                |                    | AG    | 0.00                        |                   |       |               |        |             |        |                |
|       |       |                |                    | UL    | 0.00                        |                   |       |               |        |             |        |                |
|       |       |                |                    | OPX   | 29.82                       |                   |       |               |        |             |        |                |
|       |       |                |                    | CPX   | 0.00                        |                   |       |               |        |             |        |                |
|       |       |                |                    | ABA   | 23.77                       |                   |       |               |        |             |        |                |

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

CU 30.00:ZN 94.00:RB -10.00:SR 143.00:Y 31.00:ZR 34.00:NB -10.00:BA 236.00:

COMMENTS : CHLORITE SCHIST IN GULCH AT 1350E/690S.  
 SPS322/61E.

REPORT #2000

PAGE 1  
 PRINTED 01-FEB-88  
 14:32:54

SAMPLE ID # AD02756

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992  
 TOWNSHIP :  
 NTS : 092813  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 87142DM010  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E :

PROJECT # 1142  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT : NUGGET CLAIMS  
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC.FELSIC.ASH.FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION :  
 FORMATION :

SAMPLED BY : DAVID MONEY  
 ANALYZED BY : XRAL

DATE : 29-SEP-87  
 DATE : 27-NOV-87

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                |
|-------|-------|------------------------------|----------------------------------|-----------|--|
| SI02  | 61.70 | 63.25                        | 58.14                            | Q 10.45   | NA20+K20 7.72 SI02 63.25 SUBALKALINE       |
| AL203 | 17.40 | 17.84                        | 19.33                            | C 0.55    |  |
| FE203 | 5.18  | 1.90                         | 1.31                             | QR 14.98  | OLA 10.32 NE* 42.17 QA 47.51 SUBALKALINE   |
| FEO   | 0.00  | 3.07                         | 2.36                             | AB 46.04  |  |
| CAO   | 3.61  | 3.70                         | 3.64                             | AN 16.43  | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE    |
| MGO   | 1.77  | 1.81                         | 2.49                             | LC 0.00   |  |
| NA20  | 5.04  | 5.17                         | 9.21                             | NE 0.00   | A 53.94 F 33.39 M 12.68 THOLEITIC          |
| K2O   | 2.49  | 2.55                         | 3.00                             | KP 0.00   |  |
| TIO2  | 0.35  | 0.26                         | 0.25                             | AC 0.00   | AL203 17.84 NORM PLAG 26.30 CALC-ALKALINE  |
| P2O5  | 0.27  | 0.28                         | 0.22                             | DI 0.00   |  |
| MNO   | 0.08  | 0.08                         | 0.06                             | HE 0.00   | AN 21.21 ABA 59.44 OR 19.35 AVERAGE SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EN 4.97   |  |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 4.04   | CI 11.48 NORM PLAG 26.30 DACITE            |
| CK203 | 0.00  | 0.50                         | 0.50                             | FO 0.00   |  |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |  |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO 0.00   | JENSEN CALC-ALKALINE DACITE                |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 74.92 FE 15.45 MG 9.64                  |
| LOI   | 2.00  | 0.00                         | 0.00                             | MT 1.97   |  |
| TOTAL | 97.55 | 99.00                        | 99.00                            | IL 0.50   | COLOR INDEX : 11.48                        |
|       |       |                              |                                  | CR 0.75   | HASHIMOTO INDEX : 23.00                    |
|       |       |                              |                                  | HM 0.00   |  |
|       |       |                              |                                  | AP 0.58   |  |
|       |       |                              |                                  | PO 0.00   |  |
|       |       |                              |                                  | NS 0.00   |  |
|       |       |                              |                                  | KS 0.00   |  |
|       |       |                              |                                  | RU 0.00   |  |
|       |       |                              |                                  | AG 0.00   |  |
|       |       |                              |                                  | UL 0.00   |  |
|       |       |                              |                                  | OPX 9.01  |  |
|       |       |                              |                                  | CPX 0.00  |  |
|       |       |                              |                                  | ABA 46.04 |  |

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

CU 17.00:ZN 37.00:RB 34.00:SR 475.00:Y 13.00:ZR 126.00:NB 21.00:BA 1470.00:

COMMENTS : L1350E/ 9455. FELSIC FSPAR (10-15% <1 MM) XTAL TUFF

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:40:44

SAMPLE ID # AD02722

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
N1S : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-30  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC,TECTONIZED.  
FINAL NAME :  
ALTERATION : PERVASIVE .SILICIFICATION.MODERATE.  
MINERALIZATION : MASSIVE ,50-100% ,PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 02-OCT-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : ATOMIC ABSORPTION

COMMENTS : NUGGET CLAIMS APPROX 50 M SOUTH OF WHERE HOLYOAK CREEK MEETS CHEMAINUS RIVER. 0.2 M WIDE ZONE OF MASSIVE PYRITE

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:40:52

SAMPLE ID # AD02728

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
N1S : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-8  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 365.0

FIELD NAME : IGNEOUS .MAFIC ,MEDIUM.  
FINAL NAME :  
ALTERATION : UNKNOWN.  
MINERALIZATION : DISSEMINATED AND BLEBS.1-5%.PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 26-AUG-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : ATOMIC ABSORPTION

COMMENTS : NUGGET CLAIMS FROM EAST TRIBUTARY OF HOLYOAK CREEK AT 365 M ELEV  
SOME PY IS FRACT CONTROLLED 1.0 CM BLEACHED ALTERATION HALO ALONG FRACTURES

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:40:57

SAMPLE ID # AD02729

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-10  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST.  
FINAL NAME :  
ALTERATION : FRACTURE CONTROLLED,CARBONATIZATION ,MODERATE.  
MINERALIZATION : DISSEMINATED AND BLEBS.<1% ,PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 26-AUG-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : ATOMIC ABSORPTION

COMMENTS : NUGGET CLAIMS EAST TRIBUTARY OF HOLYOAK CREEK AT 390 M ELEVATION  
MANY CARB FILLED GASHES

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:04

SAMPLE ID # AD02730

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-31  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VEIN,QUARTZ.  
FINAL NAME :  
ALTERATION : FRACTURE CONTROLLED,HEMATITIZATION,MODERATE.  
MINERALIZATION : NIL.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 01-SEP-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : AA+FA

COMMENTS : NUGGET GRID 12+30E 9+98S  
1.25 M THICK QTZ VEIN DIPPING APPROX 10 DEGREES EAST NO OFFIC SAMPLE

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:09

SAMPLE ID # AD02731

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092813  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-16  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VEIN,QUARTZ.  
FINAL NAME :  
ALTERATION : UNKNOWN.  
MINERALIZATION : NIL.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 01-SEP-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : AA+FA

COMMENTS : NUGGET GRID FROM ROCK PILE IN FRONT OF ADIT AT 10+10S ON LINE 12+50E  
NO OFFICE SAMPLE

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:16

SAMPLE ID # AD02732

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092813  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-27  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC.FELSIC,ASH,QUARTZ PORPHYRITIC.  
FINAL NAME :  
ALTERATION : PERSVASIVE .SERICITIZATION,WEAK.  
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 02-OCT-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : AA+FA

COMMENTS : NUGGET CLAIMS. AT MOUTH OF ADIT ON CHEMAINUS RIVER JUST SOUTH OF HOLYOAK  
CREEK SAME LOCATION AS AD02720. 10-15% PYRITE

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:21

SAMPLE ID # AD02733

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092813  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-28  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC,TECTONIZED.  
FINAL NAME :  
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.  
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 02-OCT-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : AA+FA

COMMENTS : NUGGET CLAIMS SAME LOCATION AS AD02732 AND AD02720. 15-20 % PYRITE

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:28

SAMPLE ID # AD02734

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092813  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-30  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH.  
FINAL NAME :  
ALTERATION : PERVASIVE ,SILICIFICATION,MODERATE.  
MINERALIZATION : MASSIVE ,20-50%,PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 02-OCT-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : AA+FA

COMMENTS : AS AD02722

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:33

SAMPLE ID # AD02735

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN-40  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI.  
FINAL NAME :  
ALTERATION : UNKNOWN.  
MINERALIZATION : MASSIVE ,20-50%,PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 13-OCT-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : AA+FA

COMMENTS : NUGGET CLAIMS CHEMAINUS RIVER JUST NORTH OF HOLYOAK CREEK FROM A 7 CM THICK BED OF MASSIVE PYRITE  
STRIKING 105 DEGREES DIPPING 82 DEGREES SOUTH NO OFFICE SAMPLE

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:40

SAMPLE ID # AD02736

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-9695  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : JPN  
LOT : 0 CONCESSION :  
GRID COORDINATES : E :

PROJECT # 1142  
PROVINCE : BRITISH COLUMBIA  
PROJECT : NUGGET CLAIMS  
0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,TECTONIZED.  
FINAL NAME :  
ALTERATION : PERVASIVE .SERICITIZATION.MODERATE.  
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% .PYRITE.  
FORMATION :

SAMPLED BY : JOHN PATTISON  
ANALYZED BY : BONDAR

DATE : 13-OCT-87  
DATE : 14-DEC-87

ANALYTICAL  
TECHNIQUE : AA+FA

COMMENTS : NUGGET CLAIMS CHEMAINUS RIVER 75 M NORTH OF HOLYOAK CREEK 10 CM WIDE PYRITE RICH BED. NO OFFICE SAMPLE



REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
14:41:44

SAMPLE ID # A002757

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29992

TOWNSHIP :

NTS : 092B13

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 87142DM027

LOT : 0 CONCESSION :

GRID COORDINATES : E :

PROJECT # 1142

PROVINCE : BRITISH COLUMBIA

PROJECT : NUGGET CLAIMS

0.0 N : 0.0 EL : 0.0

FIELD NAME : PLUTONIC, INTERMEDIATE OR MESOCRATIC, MEDIUM.

FINAL NAME :

ALTERATION : UNKNOWN.

MINERALIZATION : DISSEMINATED AND BLEBS. 1-5%, PYRITE.

FORMATION :

SAMPLED BY : DAVID MONEY

ANALYZED BY : XRAL

DATE : 01-OCT-87

DATE : 27-NOV-87

ANALYTICAL

TECHNIQUE : X-RAY FLUORESCENCE

COMMENTS : NUGGET 1650E / 1035S. RUSTY QTZ DIORITE WITH MAGNETITE AND 1-2 % PY VERY MAGNETIC

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

REPORT #2000

PAGE 1  
 PRINTED 05-FEB-88  
 10:41:55

SAMPLE ID # AB15930

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SEB6  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 440505.0 N : 5413975.0 EL : 0.0

PROJECT #  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT :

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HETEROGENEOUS ,QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.  
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
 FORMATION :

SAMPLED BY : S. ENNS  
 ANALYZED BY : XRAL

DATE : 07-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE : PLASMA EMISSION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES |                         |               |                |
|-------|-------|------------------------------|----------------------------------|-----------|-----------------------------|-------------------------|---------------|----------------|
| SI02  | 75.70 | 77.80                        | 73.31                            | Q 44.85   | NA20+K20 5.31               | SI02 77.80              | SUBALKALINE   |                |
| AL203 | 12.00 | 12.33                        | 13.70                            | C 4.45    |                             |                         |               |                |
| FE203 | 2.83  | 1.76                         | 1.25                             | OR 9.15   | OLA 3.08                    | NEA 25.07               | QA 71.85      | SUBALKALINE    |
| FE0   | 0.00  | 1.04                         | 0.82                             | AB 34.64  |                             |                         |               |                |
| CA0   | 0.30  | 0.31                         | 0.31                             | AN 1.21   | CPX 0.00                    | OL 0.00                 | OPX 100.00    | SUBALKALINE    |
| MGO   | 1.15  | 1.18                         | 1.66                             | LC 0.00   |                             |                         |               |                |
| NA20  | 3.69  | 3.79                         | 6.93                             | ME 0.00   | A 58.31                     | F 28.72                 | M 12.97       | CALC-ALKALINE  |
| K20   | 1.48  | 1.52                         | 1.83                             | KP 0.00   |                             |                         |               |                |
| TIO2  | 0.21  | 0.23                         | 0.15                             | AC 0.00   | AL203 12.33                 | NORM PLAG 3.39          | CALC-ALKALINE |                |
| P205  | 0.05  | 0.05                         | 0.04                             | DI 0.00   |                             |                         |               |                |
| MNO   | 0.00  | 0.00                         | 0.00                             | HE 0.00   | AN 2.70                     | ABA 76.97               | OR 20.34      | AVERAGE SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EN 3.32   |                             |                         |               |                |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 0.08   | CI 5.58                     | NORM PLAG 3.39          | RHYOLITE      |                |
| CR203 | 0.00  | 0.00                         | 0.00                             | FD 0.00   |                             |                         |               |                |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |                             |                         |               |                |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN CALC-ALKALINE DACITE |                         |               |                |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 77.95                    | FE 12.61                | MG 9.45       |                |
| LOI   | 2.00  | 0.00                         | 0.00                             | MT 1.87   |                             |                         |               |                |
| TOTAL | 97.30 | 100.00                       | 100.00                           | IL 0.31   | COLOR INDEX : 5.58          | HASHIMOTO INDEX : 39.73 |               |                |
|       |       |                              |                                  | CR 0.00   |                             |                         |               |                |
|       |       |                              |                                  | HM 0.00   |                             |                         |               |                |
|       |       |                              |                                  | AP 0.11   |                             |                         |               |                |
|       |       |                              |                                  | PO 0.00   |                             |                         |               |                |
|       |       |                              |                                  | NS 0.00   |                             |                         |               |                |
|       |       |                              |                                  | KS 0.00   |                             |                         |               |                |
|       |       |                              |                                  | RU 0.00   |                             |                         |               |                |
|       |       |                              |                                  | AG 0.00   |                             |                         |               |                |
|       |       |                              |                                  | OL 0.00   |                             |                         |               |                |
|       |       |                              |                                  | OPX 3.40  |                             |                         |               |                |
|       |       |                              |                                  | CPX 0.00  |                             |                         |               |                |
|       |       |                              |                                  | ABA 34.64 |                             |                         |               |                |

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

|    |          |            |          |           |          |          |          |           |          |
|----|----------|------------|----------|-----------|----------|----------|----------|-----------|----------|
| AU | 10.00:LI | -10.00:BE  | -10.00:B | -10.00:SC | 3.80:V   | 20.00:CR | -2.00:MN | 360.00:CO | 3.00:    |
| NI | 3.00:CU  | 1300.00:ZN | 48.00:GE | -10.00:AS | 2.00:SE  | -3.00:BR | -1.00:RB | 30.00:SR  | 40.00:   |
| Y  | 10.00:ZR | 90.00:NB   | 20.00:MO | -5.00:AG  | -0.50:CD | -0.20:SB | 0.20:CS  | 2.20:BA   | 1010.00: |
| LA | 11.40:CE | 19.00:ND   | 5.00:SM  | 1.40:EU   | 0.20:YB  | 1.50:LU  | 0.27:HF  | 3.00:TA   | -1.00:   |
| W  | -3.00:PB | -2.00:BI   | -0.50:TH | 3.00:U    | 1.70:    |          |          |           |          |

COMMENTS : GREY TUFF 5-6% 4-6MM OTZ XTALS AND DRK SPARSE CHLOR BANDS RUN THROUGH RX ESP CONTENT GREATER THAN OTZ . STRINGERS

AND DISS OF PYRITE AND MINOR CALCOPHYRITE. SERICITE AND SILICA ALTERED - STRONG

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

REPORT #2000

PAGE 1  
 PRINTED 05-FEB-88  
 10:42:46

SAMPLE ID # AB15934

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE90  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 440300.0 N : 5414120.0 EL : 0.0

PROJECT #  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT :

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.  
 MINERALIZATION : STRINGERS ,1-5%,PYRITE.  
 FORMATION :

SAMPLED BY : S ENNS  
 ANALYZED BY : XRAL

DATE : 08-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE :

|   | NORMALIZED |                | NORMALIZED |          | NORMS    | CLASSIFICATIONS AND INDICES |            |           |          |             |               |               |
|---|------------|----------------|------------|----------|----------|-----------------------------|------------|-----------|----------|-------------|---------------|---------------|
|   | WT %       | ANHYDROUS WT % | ANHYDROUS  | CATION % |          |                             |            |           |          |             |               |               |
| SiO2  | 64.00      | 68.86          | 66.01      | Q        | 42.60    | NA20+K20                    | 5.51       | SiO2      | 68.86    | SUBALKALINE |               |               |
| AL2O3   | 16.60      | 17.86          | 20.18      | C        | 12.84    | OLA                         | 7.11       | NEA       | 2.20     | QA          | 90.69         | SUBALKALINE   |
| FE2O3   | 4.71       | 3.47           | 1.79       | OR       | 32.53    | CPX                         | 0.00       | DL        | 0.00     | OPX         | 100.00        | SUBALKALINE   |
| FEO   | 0.00       | 2.33           | 1.87       | AB       | 1.80     | A                           | 48.13      | F         | 39.84    | M           | 12.03         | THOLEIITIC    |
| CAO   | 0.48       | 0.52           | 0.53       | AN       | 1.19     | AL2O3                       | 17.86      | NORM      | PLAG     | 39.89       | CALC-ALKALINE |               |
| MGO   | 1.23       | 1.38           | 1.97       | LC       | 0.00     | AN                          | 3.36       | ABA       | 5.07     | OR          | 91.57         | K-RICH SERIES |
| NA2O  | 0.18       | 0.19           | 0.36       | NE       | 0.00     | CI                          | 8.57       | NORM      | PLAG     | 39.89       | ANDESITE      |               |
| K2O   | 4.94       | 5.31           | 6.51       | KP       | 0.00     | JENSEN CALC-ALKALINE DACITE |            |           |          |             |               |               |
| TiO2  | 0.80       | 0.86           | 0.62       | AC       | 0.00     | AL                          | 76.37      | FE        | 16.18    | MG          | 7.45          |               |
| P2O5  | 0.20       | 0.22           | 0.17       | DI       | 0.00     | COLOR INDEX : 8.57          |            |           |          |             |               |               |
| MNO   | 0.00       | 0.00           | 0.00       | HE       | 0.00     | HASHIMOTO INDEX : 90.41     |            |           |          |             |               |               |
| S   | 0.00       | 0.00           | 0.00       | EN       | 3.93     |                             |            |           |          |             |               |               |
| NiO   | 0.00       | 0.00           | 0.00       | FS       | 0.71     |                             |            |           |          |             |               |               |
| CR2O3   | 0.00       | 0.00           | 0.00       | FO       | 0.00     |                             |            |           |          |             |               |               |
| CO2   | 0.00       | 0.00           | 0.00       | FA       | 0.00     |                             |            |           |          |             |               |               |
| H2O+  | 0.00       | 0.00           | 0.00       | WD       | 0.00     |                             |            |           |          |             |               |               |
| H2O-  | 0.00       | 0.00           | 0.00       | LN       | 0.00     |                             |            |           |          |             |               |               |
| LOI   | 5.54       | 0.00           | 0.00       | MT       | 2.68     |                             |            |           |          |             |               |               |
| TOTAL   | 92.95      | 100.00         | 100.00     | IL       | 1.24     |                             |            |           |          |             |               |               |
|   |            |                |            | CR       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | HM       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | AP       | 0.47     |                             |            |           |          |             |               |               |
|   |            |                |            | PD       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | NS       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | KS       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | RU       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | AG       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | OL       | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | OPX      | 4.65     |                             |            |           |          |             |               |               |
|   |            |                |            | CPX      | 0.00     |                             |            |           |          |             |               |               |
|   |            |                |            | ABA      | 1.80     |                             |            |           |          |             |               |               |
| TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.) |            |                |            |          |          |                             |            |           |          |             |               |               |
| AU  | 40.00:LI   | 20.00:BE       | -10.00:B   | 10.00:SC | 66.50:V  | 430.00:CR                   | 1200.00:MN | 290.00:CO | 16.00:   |             |               |               |
| NI  | 31.00:CU   | 62.00:ZN       | 46.00:GE   | 10.00:AS | 88.00:SE | -3.00:BR                    | -1.00:RB   | 90.00:SR  | 10.00:   |             |               |               |
| Y   | 20.00:ZR   | 30.00:NB       | 10.00:MO   | -5.00:AG | -0.50:CD | -0.20:SB                    | 3.10:CS    | 2.60:BA   | 4290.00: |             |               |               |
| LA  | 15.60:CE   | 28.00:ND       | 17.00:SM   | 3.60:EU  | 1.60:YB  | 1.10:LU                     | 0.18:HF    | 1.00:TA   | -1.00:   |             |               |               |
| W   | -3.00:PB   | 12.00:BI       | -0.50:TH   | 1.90:U   | 0.80:    |                             |            |           |          |             |               |               |

COMMENTS : SPS144/50. VERY RUSTY DTC STRONG LIMONITE STAIN. FOLIATION. 5-2% DTZ PYR. DTZ ACCOMPANIES BY 85 STRINGERS 4-5MM WIDE

PALE GREEN MARIPOSITE PRESENT - MINOR NEARBY QTZ PORPHYRY

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

REPORT #2000

PAGE 1  
 PRINTED 05-FEB-88  
 10:43:35

SAMPLE ID # AB15935

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE90  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 440290.0 N : 5414090.0 EL : 0.0

PROJECT #  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT :

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

SAMPLED BY : S ENNS  
 ANALYZED BY : XRAL

DATE : 08-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE :

|       | WT %  | NORMALIZED     |                    | NORMS | CLASSIFICATIONS AND INDICES |                   |       |      |       |             |        |               |                        |
|-------|-------|----------------|--------------------|-------|-----------------------------|-------------------|-------|------|-------|-------------|--------|---------------|------------------------|
|       |       | ANHYDROUS WT % | ANHYDROUS CATION % |       |                             |                   |       |      |       |             |        |               |                        |
| SI02  | 74.30 | 75.86          | 71.68              | Q     | 43.26                       | NA20+K20          | 5.20  | SI02 | 75.86 | SUBALKALINE |        |               |                        |
| AL203 | 14.30 | 14.60          | 16.26              | C     | 4.47                        |                   |       |      |       |             |        |               |                        |
| FE203 | 0.52  | 0.53           | 0.38               | OR    | 20.70                       | OLA               | 4.44  | NEA  | 15.36 | QA          | 80.20  | SUBALKALINE   |                        |
| FE0   | 0.00  | 0.00           | 0.00               | AB    | 16.18                       |                   |       |      |       |             |        |               |                        |
| CA0   | 2.19  | 2.24           | 2.26               | AN    | 11.05                       | CPX               | 0.00  | OL   | 0.00  | OPX         | 100.00 | SUBALKALINE   |                        |
| MGO   | 1.30  | 1.33           | 1.87               | LC    | 0.00                        |                   |       |      |       |             |        |               |                        |
| NA20  | 1.73  | 1.77           | 3.24               | NE    | 0.00                        | A                 | 74.22 | F    | 6.82  | M           | 18.96  | CALC-ALKALINE |                        |
| K20   | 3.36  | 3.43           | 4.14               | KP    | 0.00                        |                   |       |      |       |             |        |               |                        |
| TIO2  | 0.20  | 0.20           | 0.15               | AC    | 0.00                        | AL203             |       |      | 14.60 | NORM        | PLAG   | 40.57         | THOLEITIC              |
| P205  | 0.04  | 0.04           | 0.03               | BI    | 0.00                        |                   |       |      |       |             |        |               |                        |
| MNO   | 0.00  | 0.00           | 0.00               | HE    | 0.00                        | AN                | 23.05 | ABA  | 33.76 | OR          | 43.19  | K-RICH SERIES |                        |
| S     | 0.00  | 0.00           | 0.00               | EN    | 3.74                        |                   |       |      |       |             |        |               |                        |
| NIO   | 0.00  | 0.00           | 0.00               | FS    | 0.00                        | CI                |       |      | 4.12  | NORM        | PLAG   | 40.57         | DACITE                 |
| CR203 | 0.00  | 0.00           | 0.00               | FO    | 0.00                        |                   |       |      |       |             |        |               |                        |
| CO2   | 0.00  | 0.00           | 0.00               | FA    | 0.00                        |                   |       |      |       |             |        |               |                        |
| H2O+  | 0.00  | 0.00           | 0.00               | WD    | 0.00                        | JENSEN            |       |      |       |             |        |               | CALC-ALKALINE RHYOLITE |
| H2O-  | 0.00  | 0.00           | 0.00               | LN    | 0.00                        | AL                | 87.18 | FE   | 2.80  | MG          | 10.02  |               |                        |
| LOI   | 1.77  | 0.00           | 0.00               | MT    | 0.00                        |                   |       |      |       |             |        |               |                        |
| TOTAL | 97.94 | 100.00         | 100.00             | IL    | 0.00                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | CR    | 0.00                        | COLOR INDEX :     |       |      |       |             |        |               | 4.12                   |
|       |       |                |                    | HM    | 0.38                        | HASHIMOTO INDEX : |       |      |       |             |        |               | 54.31                  |
|       |       |                |                    | AP    | 0.09                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | PO    | 0.00                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | NS    | 0.00                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | KS    | 0.00                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | RU    | 0.15                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | AG    | 0.00                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | OL    | 0.00                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | OPX   | 3.74                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | CPX   | 0.00                        |                   |       |      |       |             |        |               |                        |
|       |       |                |                    | ABA   | 16.18                       |                   |       |      |       |             |        |               |                        |

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

|    |           |          |          |           |          |          |          |           |          |
|----|-----------|----------|----------|-----------|----------|----------|----------|-----------|----------|
| AU | -10.00:LI | 10.00:BE | -10.00:B | -10.00:SC | 2.60:V   | 20.00:CR | 10.00:MN | 120.00:CO | 1.00:    |
| NI | 3.00:CU   | 5.00:ZN  | 18.00:GE | 10.00:AS  | 2.00:SE  | -3.00:BR | 1.00:RB  | 60.00:SR  | 170.00:  |
| Y  | 20.00:ZR  | 90.00:NB | 10.00:MO | -5.00:AG  | -0.50:CD | -0.20:SB | 0.30:CS  | 0.80:BA   | 1170.00: |
| LA | 12.30:CE  | 17.00:ND | -5.00:SM | 1.20:EU   | 0.40:YB  | 1.70:LU  | 0.36:HF  | 3.00:TA   | -1.00:   |
| W  | -3.00:PB  | 2.00:BI  | -0.50:TH | 5.80:U    | 2.60:    |          |          |           |          |

COMMENTS : QUARTZ PPY 12-15% 4-16?MM QTZ EYES UP TO 10MM WHITE MASSIVE THICK FLOW DOME OR SUBVOLCANIC INTRUSION PROBABLY TYEE

RHYOLITE

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

REPORT #2000

PAGE 1  
 PRINTED 05-FEB-88  
 10:44:27

SAMPLE ID # AB15936

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE91  
 LOT : 0 CONCESSION :

PROJECT #  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT :

GRID COORDINATES : E : 440280.0 N : 5414065.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HETEROGENEOUS.  
 FINAL NAME :  
 ALTERATION : PERVASIVE .SERICITIZATION,STRONG.  
 MINERALIZATION : STRINGERS ,1-5%,PYRITE.  
 FORMATION :

SAMPLED BY : S. ENNS  
 ANALYZED BY : XRAL

DATE : 08-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE :

|   | WT %     | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS    | CLASSIFICATIONS AND INDICES |                   |          |           |          |             |        |                      |
|---|----------|------------------------------|----------------------------------|----------|-----------------------------|-------------------|----------|-----------|----------|-------------|--------|----------------------|
| SI02  | 59.80    | 64.36                        | 61.39                            | Q        | 34.48                       | NA20+K20          | 6.27     | SI02      | 64.36    | SUBALKALINE |        |                      |
| AL203   | 18.90    | 20.34                        | 22.87                            | C        | 13.49                       |                   |          |           |          |             |        |                      |
| FE203   | 4.84     | 2.99                         | 2.15                             | OR       | 36.98                       | Q*                | 7.39     | NE*       | 2.81     | Q*          | 89.79  | SUBALKALINE          |
| FEO   | 0.00     | 1.99                         | 1.59                             | AB       | 1.89                        |                   |          |           |          |             |        |                      |
| CAO   | 0.98     | 1.05                         | 1.08                             | AN       | 4.01                        | CPX               | 0.00     | OL        | 0.00     | OPX         | 100.00 | SUBALKALINE          |
| MGO   | 1.30     | 1.40                         | 1.99                             | LC       | 0.00                        |                   |          |           |          |             |        |                      |
| NA20  | 0.19     | 0.20                         | 0.38                             | NE       | 0.00                        | A                 | 50.76    | F         | 37.92    | M           | 11.32  | THOLEIITIC           |
| K2O   | 5.64     | 6.07                         | 7.40                             | KP       | 0.00                        |                   |          |           |          |             |        |                      |
| TIO2  | 1.28     | 1.38                         | 0.99                             | AC       | 0.00                        | AL203             |          | 20.34     | NORM     | PLAG        | 67.96  | CALC-ALKALINE        |
| P205  | 0.19     | 0.20                         | 0.17                             | DI       | 0.00                        |                   |          |           |          |             |        |                      |
| MNO   | 0.00     | 0.00                         | 0.00                             | HE       | 0.00                        | AN                | 9.36     | AB*       | 4.41     | OR          | 86.23  | K-RICH SERIES        |
| S   | 0.00     | 0.00                         | 0.00                             | EN       | 3.98                        |                   |          |           |          |             |        |                      |
| NIO   | 0.00     | 0.00                         | 0.00                             | FS       | 0.00                        | CI                |          | 8.71      | NORM     | PLAG        | 67.96  | BASALT               |
| CR203   | 0.00     | 0.00                         | 0.00                             | FD       | 0.00                        |                   |          |           |          |             |        |                      |
| CO2   | 0.00     | 0.00                         | 0.00                             | FA       | 0.00                        |                   |          |           |          |             |        |                      |
| H2O+  | 0.00     | 0.00                         | 0.00                             | WO       | 0.00                        | JENSEN            |          |           |          |             |        |                      |
| H2O-  | 0.00     | 0.00                         | 0.00                             | LN       | 0.00                        | AL                | 77.30    | FE        | 15.98    | MG          | 6.73   | CALC-ALKALINE DACITE |
| LUI   | 5.16     | 0.00                         | 0.00                             | MT       | 1.81                        |                   |          |           |          |             |        |                      |
| TOTAL   | 92.91    | 100.00                       | 100.00                           | IL       | 1.98                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | CR       | 0.00                        | COLOR INDEX :     |          | 8.71      |          |             |        |                      |
|   |          |                              |                                  | HM       | 0.94                        | HASHIMOTO INDEX : |          | 85.57     |          |             |        |                      |
|   |          |                              |                                  | AP       | 0.44                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | PD       | 0.00                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | NS       | 0.00                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | KS       | 0.00                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | RU       | 0.00                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | AG       | 0.00                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | OL       | 0.00                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | OPX      | 3.98                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | CPX      | 0.00                        |                   |          |           |          |             |        |                      |
|   |          |                              |                                  | AB*      | 1.89                        |                   |          |           |          |             |        |                      |
| TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.) |          |                              |                                  |          |                             |                   |          |           |          |             |        |                      |
| AU  | 40.00:LI | -10.00:BE                    | -10.00:B                         | 20.00:SC | 41.40:V                     | 470.00:CR         | 9.00:MN  | 200.00:CO | 14.00:   |             |        |                      |
| NI  | 11.00:CU | 38.00:ZN                     | 74.00:GE                         | 10.00:AS | 51.00:SE                    | -3.00:BR          | -1.00:RB | 130.00:SR | -10.00:  |             |        |                      |
| Y   | 20.00:ZR | 20.00:NB                     | 10.00:MO                         | -5.00:AG | -0.50:CD                    | -0.20:SB          | 1.20:CS  | 3.00:BA   | 4920.00: |             |        |                      |
| LA  | 3.60:CE  | 11.00:ND                     | 7.00:SM                          | 2.50:EU  | 0.90:YB                     | 2.50:LU           | 0.39:HF  | 2.00:TA   | -1.00:   |             |        |                      |
| W   | -3.00:PB | 12.00:BI                     | 0.50:TH                          | 0.60:U   | 2.30:                       |                   |          |           |          |             |        |                      |

COMMENTS : VERY RUSTY OTC STRONG LIMONITE STAIN NEARBY UTZ PORPHYRY. SILICIFIED BANDS ARE PYRITE BEARING UP TO 2CM WIDE

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

REPORT #2000

PAGE 1  
 PRINTED 05-FEB-88  
 10:45:16

SAMPLE ID # AB15937

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158      FIELD NUMBER : 86116SE093      PROJECT #  
 TOWNSHIP :              LOT : 0 CONCESSION :      PROVINCE : BRITISH COLUMBIA  
 NTS : 092B13              PROJECT :  
 UTM ZONE : 10              GRID COORDINATES : E : 440480.0 N : 5414040.0 EL : 0.0  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL.  
 FINAL NAME :  
 ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE PLUS CHALCOPYRITE.  
 FORMATION :

SAMPLED BY : D. MONEY/S. ENNS  
 ANALYZED BY : XRAL

DATE : 10-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE : XRF + NEUTRON ACTIVATION

| WT %  | NORMALIZED     |                               | NORMS  |      | CLASSIFICATIONS AND INDICES |                   |       |       |       |             |        |                      |       |
|-------|----------------|-------------------------------|--------|------|-----------------------------|-------------------|-------|-------|-------|-------------|--------|----------------------|-------|
|       | ANHYDROUS WT % | NORMALIZED ANHYDROUS CATION % |        |      |                             |                   |       |       |       |             |        |                      |       |
| SI02  | 73.00          | 76.24                         | 73.79  | Q    | 56.19                       | NA20+K20          | 3.77  | SI02  | 76.24 | SUBALKALINE |        |                      |       |
| AL203 | 13.20          | 13.79                         | 15.73  | C    | 10.86                       |                   |       |       |       |             |        |                      |       |
| FE303 | 4.54           | 1.82                          | 1.32   | OR   | 22.20                       | OL*               | 7.44  | NE*   | 1.56  | QA          | 91.01  | SUBALKALINE          |       |
| FE0   | 0.00           | 2.63                          | 2.13   | AB   | 1.67                        |                   |       |       |       |             |        |                      |       |
| CA0   | 0.12           | 0.13                          | 0.13   | AN   | 0.22                        | CPX               | 0.00  | OL    | 0.00  | OPX         | 100.00 | SUBALKALINE          |       |
| MGO   | 1.26           | 1.32                          | 1.90   | LC   | 0.00                        |                   |       |       |       |             |        |                      |       |
| NA20  | 0.17           | 0.18                          | 0.33   | NE   | 0.00                        | A                 | 40.31 | F     | 45.62 | M           | 14.07  | THOLEIITIC           |       |
| K20   | 3.44           | 3.59                          | 4.44   | KP   | 0.00                        |                   |       |       |       |             |        |                      |       |
| TI02  | 0.24           | 0.25                          | 0.18   | AC   | 0.00                        | AL203             |       | 13.79 | NORM  | PLAG        | 11.72  | CALC-ALKALINE        |       |
| P205  | 0.06           | 0.06                          | 0.05   | DI   | 0.00                        |                   |       |       |       |             |        |                      |       |
| MNO   | 0.00           | 0.00                          | 0.00   | HE   | 0.00                        | AN                | 0.92  | ABA*  | 6.91  | OR          | 92.17  | K-RICH SERIES        |       |
| S     | 0.00           | 0.00                          | 0.00   | EN   | 3.80                        |                   |       |       |       |             |        |                      |       |
| NIO   | 0.00           | 0.00                          | 0.00   | FS   | 2.57                        | CI                |       | 8.72  | NORM  | PLAG        | 11.72  | DACITE               |       |
| CR203 | 0.00           | 0.00                          | 0.00   | FO   | 0.00                        |                   |       |       |       |             |        |                      |       |
| CO2   | 0.00           | 0.00                          | 0.00   | FA   | 0.00                        |                   |       |       |       |             |        |                      |       |
| H20+  | 0.00           | 0.00                          | 0.00   | WD   | 0.00                        | JENSEN            |       |       |       |             |        | CALC-ALKALINE DACITE |       |
| H20-  | 0.00           | 0.00                          | 0.00   | LN   | 0.00                        | AL                | 73.97 | FE    | 17.10 | MG          | 8.93   |                      |       |
| LOI   | 3.23           | 0.00                          | 0.00   | MT   | 1.99                        |                   |       |       |       |             |        |                      |       |
| TOTAL | 95.75          | 100.00                        | 100.00 | IL   | 0.36                        | COLOR INDEX :     |       |       |       |             |        | 8.72                 |       |
|       |                |                               |        | CR   | 0.00                        | HASHIMOTO INDEX : |       |       |       |             |        |                      | 94.19 |
|       |                |                               |        | HM   | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | AP   | 0.14                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | PO   | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | NS   | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | KS   | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | RU   | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | AG   | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | OL   | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | OPX  | 6.37                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | CPX  | 0.00                        |                   |       |       |       |             |        |                      |       |
|       |                |                               |        | ABA* | 1.67                        |                   |       |       |       |             |        |                      |       |

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

RB 70.00:SR -10.00:Y 30.00:ZR 110.00:NB 20.00:BA 2130.00:

COMMENTS : 60M FROM L9E ON HOLYOAK CREEK, ALIERED TUFF WITH 5% QUARTZ EYES AND 10% 2MM ANHEDRAL FSP, PYRITIC LAYERS AND CHLORITI C LAYERS DACITIC IN COMP PY DISS 5%, -1% DISS CCPY.

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

REPORT #2000

PAGE 1  
 PRINTED 05-FEB-88  
 10:46:13

SAMPLE ID # AB15939

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE097  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 440240.0 N : 5414335.0 EL : 0.0

PROJECT #  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT :

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC.  
 FINAL NAME :  
 ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.  
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% .PYRITE.  
 FORMATION :

SAMPLED BY : S.ENNS/D.MONEY  
 ANALYZED BY : XRAL

DATE : 10-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE : XRF + PLASMA EMISSION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS | CLASSIFICATIONS AND INDICES                    |
|-------|-------|------------------------------|----------------------------------|-------|--|
| SI02  | 59.90 | 64.07                        | 61.43                            | Q     | 30.62 NA20+K20 4.16 SI02 64.07 SUBALKALINE     |
| AL203 | 16.10 | 17.22                        | 19.46                            | C     | 6.15   |
| FE203 | 8.73  | 2.41                         | 1.74                             | OR    | 15.78 QLA 14.21 NE* 15.78 QA 70.01 SUBALKALINE |
| FEO   | 0.00  | 6.24                         | 5.00                             | AB    | 14.71  |
| CAO   | 3.48  | 3.72                         | 3.82                             | AN    | 18.03 CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE  |
| MGO   | 1.14  | 1.22                         | 1.74                             | LC    | 0.00   |
| NA20  | 1.48  | 1.58                         | 2.94                             | NE    | 0.00 A 30.19 F 60.96 M 8.85 THOLEIITIC         |
| K20   | 2.41  | 2.58                         | 3.16                             | KP    | 0.00   |
| TIO2  | 0.75  | 0.80                         | 0.58                             | AC    | 0.00 AL203 17.22 NORM PLAG 55.07 CALC-ALKALINE |
| P205  | 0.15  | 0.16                         | 0.13                             | DI    | 0.00   |
| MNO   | 0.00  | 0.00                         | 0.00                             | HE    | 0.00 AN 37.16 AB* 30.32 OR 32.52 K-RICH SERIES |
| S     | 0.00  | 0.00                         | 0.00                             | EN    | 3.48   |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS    | 7.11 CI 14.35 NORM PLAG 55.07 ANDESITE         |
| CR203 | 0.00  | 0.00                         | 0.00                             | FD    | 0.00   |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA    | 0.00   |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WO    | 0.00   |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN    | 0.00   |
| LOI   | 5.47  | 0.00                         | 0.00                             | MT    | 2.60   |
| TOTAL | 93.49 | 100.00                       | 100.00                           | IL    | 1.16   |
|       |       |                              |                                  | CR    | 0.00   |
|       |       |                              |                                  | HM    | 0.00   |
|       |       |                              |                                  | AP    | 0.35   |
|       |       |                              |                                  | PO    | 0.00   |
|       |       |                              |                                  | NS    | 0.00   |
|       |       |                              |                                  | KS    | 0.00   |
|       |       |                              |                                  | RU    | 0.00   |
|       |       |                              |                                  | AG    | 0.00   |
|       |       |                              |                                  | OL    | 0.00   |
|       |       |                              |                                  | OPX   | 10.59  |
|       |       |                              |                                  | CPX   | 0.00   |
|       |       |                              |                                  | ABA   | 14.71  |

COLOR INDEX : 14.35  
 HASHIMOTO INDEX : 41.72

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

RB 70.00:SR 220.00:Y 30.00:ZR 100.00:NB 20.00:BA 810.00:

COMMENTS : RUSTY OTCS ALONG HOLYOAK CR,RHYODACITIC TUFF W/ PY AS BANDS(BEDS?) LOC. 5-15% AVG10X MODER. SCHISTOSE AND SERICITIC  
 PROBABLY 5% FINE FSP GRAINS ROCK HERE IS SOURCE OF INTERESTING DOWNSTREAM RUBBLE

==== FALCONBRIDGE LTD ====

=== EXPLORATION DIVISION ===

REPORT #2000

PAGE 1  
PRINTED 05-FEB-88  
10:47:02

SAMPLE ID # AB15940

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158

FIELD NUMBER : 86116SE098

PROJECT #

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092B13

PROJECT :

UTM ZONE : 10

GRID COORDINATES : E : 440210.0 N : 5414315.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC.

FINAL NAME :

ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.

MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.

FORMATION :

SAMPLED BY : S. ENNS/D. MONEY

DATE : 10-AUG-86

ANALYTICAL

ANALYZED BY : XRAL

DATE : 12-SEP-86

TECHNIQUE : XRF + PLASMA EMISSION

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES               |
|-------|-------|------------------------------|----------------------------------|-----------|---|
| SI02  | 44.10 | 48.93                        | 46.88                            | Q 7.65    | NA20+K20 4.39 SI02 48.93 ALKALINE         |
| AL2O3 | 20.10 | 22.30                        | 25.19                            | C 7.76    |   |
| FE2O3 | 13.80 | 3.17                         | 2.29                             | OR 21.93  | OL* 42.68 NE* 12.82 Q* 44.50 SUBALKALINE  |
| FED   | 0.00  | 10.92                        | 8.75                             | AB 7.52   |   |
| CAO   | 5.42  | 6.01                         | 6.17                             | AN 28.84  | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE   |
| MGO   | 2.21  | 2.45                         | 3.50                             | LC 0.00   |   |
| NA20  | 0.73  | 0.81                         | 1.50                             | NE 0.00   | A 21.30 F 66.81 M 11.89 THOLEIITIC        |
| K20   | 3.23  | 3.58                         | 4.39                             | KP 0.00   |   |
| TI02  | 1.36  | 1.51                         | 1.09                             | AC 0.00   | AL2O3 22.30 NORM PLAG 79.31 CALC-ALKALINE |
| P2O5  | 0.27  | 0.30                         | 0.24                             | DI 0.00   |   |
| MNO   | 0.00  | 0.00                         | 0.00                             | HE 0.00   | AN 49.48 AB* 12.91 OR 37.62 SODIC         |
| S     | 0.00  | 0.00                         | 0.00                             | EN 7.00   |   |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 13.04  | CI 25.65 NORM PLAG 79.31 BASALT           |
| CR2O3 | 0.00  | 0.00                         | 0.00                             | FD 0.00   |   |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |   |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN THOLEIITIC DACITE                  |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 61.71 FE 29.71 MG 8.58                 |
| LOI   | 8.47  | 0.00                         | 0.00                             | MT 3.43   |   |
| TOTAL | 90.12 | 100.00                       | 100.00                           | IL 2.17   | COLOR INDEX : 25.65                       |
|       |       |                              |                                  | CR 0.00   | HASHIMOTO INDEX : 46.94                   |
|       |       |                              |                                  | HM 0.00   |   |
|       |       |                              |                                  | AP 0.65   |   |
|       |       |                              |                                  | PO 0.00   |   |
|       |       |                              |                                  | NS 0.00   |   |
|       |       |                              |                                  | KS 0.00   |   |
|       |       |                              |                                  | RU 0.00   |   |
|       |       |                              |                                  | AG 0.00   |   |
|       |       |                              |                                  | OL 0.00   |   |
|       |       |                              |                                  | OPX 20.04 |   |
|       |       |                              |                                  | CPX 0.00  |   |
|       |       |                              |                                  | AB* 7.52  |   |

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

RB 80.00:SR 230.00:Y 20.00:ZR 40.00:NB 10.00:BA 1050.00:

COMMENTS : RUSTY BOULDERS IN HOLYOAK CR NEARER SOURCE. CHERY AND FSP TUFFACEOUS LAYERS WITH 8-15% PY DISS ALONG FOLIATION  
ROCK IS ALTERED BY IS INTRO BY FLUIDS OR POSS SULPHIDE FACIES IRON FORMATION



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

REPORT #2000

SAMPLE ID # AB15943

WHOLE ROCK GEOCHEMICAL ANALYSIS

PAGE 1  
 PRINTED 05-FEB-88  
 10:47:46

LAB REPORT # 29158  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : AB15943  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 440000.0 N : 5414420.0 EL : 0.0

PROJECT #  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT :

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH.  
 FINAL NAME :  
 ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.  
 MINERALIZATION : NIL ,NIL.  
 FORMATION :

SAMPLED BY : S ENNS  
 ANALYZED BY : XRAL

DATE : 10-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE : X-RAY FLUORESCENCE

|       | WT %  | NORMALIZED<br>ANHYDROUS WT % | NORMALIZED<br>ANHYDROUS CATION % | NORMS     | CLASSIFICATIONS AND INDICES                   |
|-------|-------|------------------------------|----------------------------------|-----------|---|
| SI02  | 77.80 | 79.19                        | 75.39                            | Q 51.62   | NA20+K20 3.56 SI02 79.19 SUBALKALINE          |
| AL203 | 11.90 | 12.11                        | 13.59                            | C 3.08    |   |
| FE203 | 1.38  | 1.40                         | 1.01                             | OR 7.49   | OLA 3.26 NE* 16.88 QA 79.86 SUBALKALINE       |
| FE0   | 0.00  | 0.00                         | 0.00                             | AB 21.51  |   |
| CA0   | 2.31  | 2.35                         | 2.40                             | AN 11.79  | CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE       |
| MGO   | 1.15  | 1.17                         | 1.66                             | LC 0.00   |   |
| NA20  | 2.29  | 2.33                         | 4.30                             | NE 0.00   | A 59.41 F 21.08 M 19.52 CALC-ALKALINE         |
| K20   | 1.21  | 1.23                         | 1.50                             | KP 0.00   |   |
| TIO2  | 0.17  | 0.17                         | 0.12                             | AC 0.00   | AL203 12.11 NORM PLAG 35.40 THOLEITIC         |
| P205  | 0.03  | 0.03                         | 0.02                             | DI 0.00   |   |
| MNO   | 0.00  | 0.00                         | 0.00                             | HE 0.00   | AN 28.90 AB* 52.74 OR 18.36 AVERAGE SERIES    |
| S     | 0.00  | 0.00                         | 0.00                             | EN 3.32   |   |
| NIO   | 0.00  | 0.00                         | 0.00                             | FS 0.00   | CI 4.33 NORM PLAG 35.40 DACITE                |
| CR203 | 0.00  | 0.00                         | 0.00                             | FD 0.00   |   |
| CO2   | 0.00  | 0.00                         | 0.00                             | FA 0.00   |   |
| H2O+  | 0.00  | 0.00                         | 0.00                             | WD 0.00   | JENSEN CALC-ALKALINE RHYOLITE                 |
| H2O-  | 0.00  | 0.00                         | 0.00                             | LN 0.00   | AL 82.96 FE 6.90 MG 10.14                     |
| LQI   | 1.70  | 0.00                         | 0.00                             | MT 0.00   |   |
| TOTAL | 98.24 | 100.00                       | 100.00                           | IL 0.00   | COLOR INDEX : 4.33<br>HASHIMOTO INDEX : 33.91 |
|       |       |                              |                                  | CR 0.00   |   |
|       |       |                              |                                  | HM 1.01   |   |
|       |       |                              |                                  | AP 0.07   |   |
|       |       |                              |                                  | PO 0.00   |   |
|       |       |                              |                                  | NS 0.00   |   |
|       |       |                              |                                  | KS 0.00   |   |
|       |       |                              |                                  | RU 0.12   |   |
|       |       |                              |                                  | AG 0.00   |   |
|       |       |                              |                                  | OL 0.00   |   |
|       |       |                              |                                  | OPX 3.32  |   |
|       |       |                              |                                  | CPX 0.00  |   |
|       |       |                              |                                  | AB* 21.51 |   |

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

RB 30.00:SR 230.00:Y 20.00:ZR 60.00:NB 10.00:BA 690.00:

COMMENTS : QUARTZ 10X 4-6MM, 250M UPSTREAM OF SE98

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

REPORT #2000

PAGE 1  
 PRINTED 05-FEB-86  
 10:48:31

SAMPLE ID # AB15945

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
 TOWNSHIP :  
 NTS : 092B13  
 UTM ZONE : 10  
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE098  
 LOT : 0 CONCESSION :  
 GRID COORDINATES : E : 440230.0 N : 5414325.0 EL : 0.0

PROJECT #  
 PROVINCE : BRITISH COLUMBIA  
 PROJECT :

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH.  
 FINAL NAME :  
 ALTERATION : UNKNOWN.  
 MINERALIZATION : BEDDED, 5-20% , PYRITE.  
 FORMATION :

SAMPLED BY : S ENNS  
 ANALYZED BY : XRAL

DATE : 10-AUG-86  
 DATE : 12-SEP-86

ANALYTICAL  
 TECHNIQUE :

|       | WT %  | NORMALIZED     |                    | NORMS | CLASSIFICATIONS AND INDICES |                   |       |            |        |          |        |               |
|-------|-------|----------------|--------------------|-------|-----------------------------|-------------------|-------|------------|--------|----------|--------|---------------|
|       |       | ANHYDROUS WT % | ANHYDROUS CATION % |       |                             |                   |       |            |        |          |        |               |
| SI02  | 42.20 | 46.24          | 43.67              | Q     | 3.02                        | NA20+K20          | 5.97  | SI02       | 46.24  | ALKALINE |        |               |
| AL203 | 24.20 | 26.52          | 29.52              | C     | 11.68                       |                   |       |            |        |          |        |               |
| FE203 | 11.00 | 3.23           | 2.30               | OR    | 33.17                       | OLA               | 51.05 | NEA        | 11.27  | Q*       | 37.68  | SUBALKALINE   |
| FE0   | 0.00  | 7.94           | 6.27               | AB    | 4.31                        |                   |       |            |        |          |        |               |
| CA0   | 5.02  | 5.50           | 5.57               | AN    | 35.85                       | CPX               | 0.00  | OL         | 0.00   | OPX      | 100.00 | SUBALKALINE   |
| MGO   | 2.48  | 2.72           | 3.82               | LC    | 0.00                        |                   |       |            |        |          |        |               |
| NA20  | 0.43  | 0.47           | 0.86               | ME    | 0.00                        | A                 | 30.57 | F          | 55.52  | M        | 13.91  | THOLEIITIC    |
| K20   | 5.02  | 5.50           | 6.63               | KP    | 0.00                        |                   |       |            |        |          |        |               |
| TI02  | 1.45  | 1.59           | 1.13               | AC    | 0.00                        | AL203             |       | 26.52      | NORM   | PLAG     | 85.70  | CALC-ALKALINE |
| F205  | 0.27  | 0.30           | 0.24               | DI    | 0.00                        |                   |       |            |        |          |        |               |
| MNO   | 0.00  | 0.00           | 0.00               | HE    | 0.00                        | AN                | 40.82 | ABA        | 6.81   | OR       | 52.37  | SODIC         |
| S     | 0.00  | 0.00           | 0.00               | EN    | 7.65                        |                   |       |            |        |          |        |               |
| N10   | 0.00  | 0.00           | 0.00               | FS    | 7.98                        | CI                |       | 21.33      | NORM   | PLAG     | 85.70  | BASALT        |
| CR203 | 0.00  | 0.00           | 0.00               | FO    | 0.00                        |                   |       |            |        |          |        |               |
| CO2   | 0.00  | 0.00           | 0.00               | FA    | 0.00                        |                   |       |            |        |          |        |               |
| H2O+  | 0.00  | 0.00           | 0.00               | WO    | 0.00                        | JENSEN            |       | THOLEIITIC | DACITE |          |        |               |
| H2O-  | 0.00  | 0.00           | 0.00               | LN    | 0.00                        | AL                | 68.59 | FE         | 22.53  | MG       | 8.89   |               |
| LOI   | 7.23  | 0.00           | 0.00               | MI    | 3.45                        |                   |       |            |        |          |        |               |
|       |       |                |                    | IL    | 2.26                        |                   |       |            |        |          |        |               |
| TOTAL | 91.26 | 100.00         | 100.00             | CR    | 0.00                        | COLOR INDEX :     |       | 21.33      |        |          |        |               |
|       |       |                |                    | HM    | 0.00                        | HASHIMOTO INDEX : |       | 57.92      |        |          |        |               |
|       |       |                |                    | AP    | 0.63                        |                   |       |            |        |          |        |               |
|       |       |                |                    | PO    | 0.00                        |                   |       |            |        |          |        |               |
|       |       |                |                    | NS    | 0.00                        |                   |       |            |        |          |        |               |
|       |       |                |                    | KS    | 0.00                        |                   |       |            |        |          |        |               |
|       |       |                |                    | RU    | 0.00                        |                   |       |            |        |          |        |               |
|       |       |                |                    | AG    | 0.00                        |                   |       |            |        |          |        |               |
|       |       |                |                    | OL    | 0.00                        |                   |       |            |        |          |        |               |
|       |       |                |                    | OPX   | 15.63                       |                   |       |            |        |          |        |               |
|       |       |                |                    | CPX   | 0.00                        |                   |       |            |        |          |        |               |
|       |       |                |                    | ABA   | 4.31                        |                   |       |            |        |          |        |               |

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

RB 110.00:SR 190.00:Y 10.00:ZR 50.00:NB 10.00:BA 1390.00:

COMMENTS : AEXHALITE? WITH SULPHIDE BEDS COMPLEX SYNSEDIMENTARY FOLDING?

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:49:06

SAMPLE ID # AB15942

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112

TOWNSHIP :

NTS : 092B13

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE98

LOT : 0 CONCESSION :

GRID COORDINATES : E :

PROJECT #

PROVINCE : BRITISH COLUMBIA

PROJECT :

N : 5414375.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC, ALKALIC, BLOCK.

FINAL NAME :

ALTERATION : UNKNOWN.

MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.

FORMATION :

SAMPLED BY : S ENNS

ANALYZED BY : ACME

DATE : 10-AUG-86

DATE : 29-AUG-86

ANALYTICAL

TECHNIQUE :

COMMENTS : GREY SERICITIC TUFF SCHISTOSE WITH PYRITE AND GREY SULPHIDES DISS. NORTH OF FAULT ZONE FINE GRAINED DISTAL TUFF

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:49:10

SAMPLE ID # AB15943

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158

TOWNSHIP :

NTS : 092B13

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : AB15943

LOT : 0 CONCESSION :

GRID COORDINATES : E :

PROJECT #

PROVINCE : BRITISH COLUMBIA

PROJECT :

N : 5414420.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH.

FINAL NAME :

ALTERATION : PERVASIVE, SERICITIZATION, WEAK.

MINERALIZATION : NIL, NIL.

FORMATION :

SAMPLED BY : S ENNS

ANALYZED BY : XRAL

DATE : 10-AUG-86

DATE : 12-SEP-86

ANALYTICAL

TECHNIQUE : X-RAY FLUORESCENCE

COMMENTS : QUARTZ 10% 4-6MM, 250M UPSTREAM OF SE98

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:56

SAMPLE ID # AB15940

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE098  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440210.0 N : 5414315.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC.  
FINAL NAME :  
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.  
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : S. ENNS/D. MONEY  
ANALYZED BY : XRAL

DATE : 10-AUG-86  
DATE : 12-SEP-86

ANALYTICAL  
TECHNIQUE : XRF + PLASMA EMISSION

COMMENTS : RUSTY BOULDERS IN HOLYOAK CR NEARER SOURCE. CHERTY AND FSP. TUFFACEOUS LAYERS WITH 8-15% PY DISS ALONG FOLIATION  
ROCK IS ALTERED PY IS INTRO BY FLUIDS OR POSS SULPHIDE FACIES IRON FORMATION

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:49:01

SAMPLE ID # AB15941

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE098  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440150.0 N : 5414360.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH.  
FINAL NAME :  
ALTERATION : LOOK AT COMMENTS FILE,LOOK AT COMMENTS.  
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : S ENNS  
ANALYZED BY : ACME

DATE : 10-AUG-86  
DATE : 29-AUG-86

ANALYTICAL  
TECHNIQUE :

COMMENTS : FAULT ZONE WITH SULPHIDES PLUS GRAY MINERALS GOUGE MATERIAL

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:07

SAMPLE ID # AB15930

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
TOWNSHIP :  
NTS : 092813  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE86

PROJECT #

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

GRID COORDINATES : E :

440505.0 N : 5413975.0 EL :

0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HETEROGENEOUS ,QUARTZ AND FELDSPAR PORPHYRITIC.  
FINAL NAME :  
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.  
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : S. ENNS  
ANALYZED BY : XRAL

DATE : 07-AUG-86  
DATE : 12-SEP-86

ANALYTICAL  
TECHNIQUE : PLASMA EMISSION

COMMENTS : GREY TUFF 5-6% 4-6MM QTZ XTALS AND DRK SPARSE CHLOR BANDS RUN THROUGH RX FSP CONTENT GREATER THAN QTZ . STRINGERS AND DISS OF PYRITE AND MINOR CALCHOPYRITE. SERICITE AND SILICA ALTERED - STRONG

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:13

SAMPLE ID # AB15931

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112  
TOWNSHIP :  
NTS : 092813  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE86

PROJECT #

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

GRID COORDINATES : E :

440505.0 N : 5413975.0 EL :

0.0

FIELD NAME : VOLCANIC,MAFIC ,FINE,APHYRIC.  
FINAL NAME :  
ALTERATION : PERVASIVE ,EPIDOTIZATION ,STRONG.  
MINERALIZATION : STRINGERS ,5-20% ,PYRRHOTITE PLUS CHALCOPYRITE.  
FORMATION :

SAMPLED BY : S. ENNS  
ANALYZED BY : ACME

DATE : 07-AUG-86  
DATE : 29-AUG-86

ANALYTICAL  
TECHNIQUE :

COMMENTS : FLOAT IN HOLYOAK CREEK AT L9E 11+20S. IRREGULAR EPIDOTE BLACK BIOTITE BLOTCHES WITH PYRRHOTITE CHALCOPYRITE STRINGERS (POSSIBLE SPHALERITE)

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:18

SAMPLE ID # AB15932

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112

FIELD NUMBER : 86116SE87

PROJECT #

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092B13

PROJECT :

UTM ZONE : 10

GRID COORDINATES : E : 440340.0 N : 5414145.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

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

FINAL NAME :

ALTERATION : UNKNOWN.

MINERALIZATION : STRINGERS ,5-20% .PYRRHOTITE PLUS CHALCOPYRITE.

FORMATION :

SAMPLED BY : S ENNS

DATE : 07-AUG-86

ANALYTICAL

ANALYZED BY : ACME

DATE : 29-AUG-86

TECHNIQUE :

COMMENTS : FLOAT EAST SIDE HOLYOAK CREEK 10M N OF 10+00S TIE LINE DARK ROCK WITH 5% GLASSY QUARTZ CONSPICUOUS CPY VEINLETS

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:22

SAMPLE ID # AB15933

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112

FIELD NUMBER : 86116SE87

PROJECT #

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092B13

PROJECT :

UTM ZONE : 10

GRID COORDINATES : E : 440340.0 N : 5414145.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE.

FINAL NAME :

ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.

MINERALIZATION : STRINGERS ,5-20% ,STANNITE.

FORMATION :

SAMPLED BY : S. ENNS

DATE : 07-AUG-86

ANALYTICAL

ANALYZED BY : ACME

DATE : 29-AUG-86

TECHNIQUE :

COMMENTS : RUSTY FLOAT EAST SIDE OF HOLYOAK CREEK 10M NORTH OF TIE LINE 10+00S . OLD SHOWING? SUGGESTED BY REMNANTS OF OLD CAMP-SITE IN VICINITY.

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:18

SAMPLE ID # AB15932

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE87  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440340.0 N : 5414145.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC.  
FINAL NAME :  
ALTERATION : UNKNOWN.  
MINERALIZATION : STRINGERS ,5-20% .PYRRHOTITE PLUS CHALCOPYRITE.  
FORMATION :

SAMPLED BY : S ENNS  
ANALYZED BY : ACME

DATE : 07-AUG-86  
DATE : 29-AUG-86

ANALYTICAL  
TECHNIQUE :

COMMENTS : FLOAT EAST SIDE HOLYOAK CREEK 10M N OF 10+00S TIE LINE DARK ROCK WITH 5% GLASSY QUARTZ CONSPICUOUS CPY VEINLETS

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:22

SAMPLE ID # AB15933

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE87  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440340.0 N : 5414145.0 EL : 0.0

FIELD NAME : VOLCANIC,MAFIC ,FINE.  
FINAL NAME :  
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.  
MINERALIZATION : STRINGERS ,5-20% ,STANNITE.  
FORMATION :

SAMPLED BY : S. ENNS  
ANALYZED BY : ACME

DATE : 07-AUG-86  
DATE : 29-AUG-86

ANALYTICAL  
TECHNIQUE :

COMMENTS : RUSTY FLOAT EAST SIDE OF HOLYOAK CREEK 10M NORTH OF TIE LINE 10+00S . OLD SHOWING? SUGGESTED BY REMNANTS OF OLD CAMP-SITE IN VICINITY.

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:46

SAMPLE ID # AB15938

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE095  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440340.0 N : 5414145.0 EL : 0.0

FIELD NAME : OTHER ,LOOK AT COMMENTS,LOOK AT COMMENTS.  
FINAL NAME :  
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.  
MINERALIZATION : DISSEMINATED AND BLEBS,20-50%,LOOK AT COMMENTS FILE.  
FORMATION :

SAMPLED BY : D. MONEY/S. ENNS  
ANALYZED BY : ~~XRAL~~ ACME

DATE : 10-AUG-86  
DATE : 29-AUG-86

ANALYTICAL  
TECHNIQUE : XRF + NEUTRON ACTIVATION

COMMENTS : DCP ANALYSIS TOO. POSS ANALYZED BY ACME? OLD TRENCHS ALONG HOLYOAK CK LIMON COATED CHLOR. RX POSS TUFF W STRETCHED FSP  
SAM IS GRAD OVER OTC 80ZMT,5ZPY,2ZCPY TO 5ZMT,1ZPY,-1ZCPY, ROCK HAS GUNGY APPEARANCE

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:48:51

SAMPLE ID # AB15939

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158  
TOWNSHIP :  
NTS : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE097  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440240.0 N : 5414335.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC.  
FINAL NAME :  
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.  
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : S.ENNS/D.MONEY  
ANALYZED BY : XRAL

DATE : 10-AUG-86  
DATE : 12-SEP-86

ANALYTICAL  
TECHNIQUE : XRF + PLASMA EMISSION

COMMENTS : RUSTY OTCS ALONG HOLYOAK CR,RHYODACITIC TUFF W/ PY AS BANDS(BEDS?) LOC. 5-15% AVG10% MODER. SCHISTOSE AND SERICITIC  
PROBABLY 5% FINE FSP GRAINS ROCK HERE IS SOURCE OF INTERESTING DOWNSTREAM RUBBLE



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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:49:24

SAMPLE ID # AB15946

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112  
TOWNSHIP :  
N1S : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE098  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440230.0 N : 5414315.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH.  
FINAL NAME :  
ALTERATION : UNKNOWN.  
MINERALIZATION : BEDDED,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : S ENNS  
ANALYZED BY : ACME

DATE : 10-AUG-86  
DATE : 29-AUG-86

ANALYTICAL  
TECHNIQUE :

COMMENTS : AEXHALITE? WITH SULPHIDE BEDS COMPLEX SYNSEDIMENTARY FOLDING SAME AS SAMPLE AB15945

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:49:28

SAMPLE ID # AB15947

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112  
TOWNSHIP :  
N1S : 092B13  
UTM ZONE : 10  
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE098  
LOT : 0 CONCESSION :

PROJECT #  
PROVINCE : BRITISH COLUMBIA  
PROJECT :

GRID COORDINATES : E : 440230.0 N : 5414325.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH.  
FINAL NAME :  
ALTERATION : UNKNOWN.  
MINERALIZATION : BEDDED,5-20% ,PYRITE.  
FORMATION :

SAMPLED BY : S. ENNS  
ANALYZED BY : ACME

DATE : 10-AUG-86  
DATE : 29-AUG-86

ANALYTICAL  
TECHNIQUE :

COMMENTS : POSSIBLE EPIDOTE AND MINOR BIOTITE ALTERATION BY CONTACT EFFECT OF NEARBY INTRUSION?

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:49:32

SAMPLE ID # AB15948

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112

FIELD NUMBER : 86116SE093

PROJECT #

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

UTM ZONE : 10

GRID COORDINATES : E : 440480.0 N : 5414040.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL.

FINAL NAME :

ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS.MODERATE.

MINERALIZATION : DISSEMINATED AND BLEBS.5-20% ,PYRITE PLUS CHALCOPYRITE.

FORMATION :

SAMPLED BY : S ENNS

DATE : 10-AUG-86

ANALYTICAL

ANALYZED BY : ACME

DATE : 29-AUG-86

TECHNIQUE :

COMMENTS : SAME AS AB15937

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

REPORT #2000

PAGE 1  
PRINTED 01-FEB-88  
16:49:37

SAMPLE ID # AB15949

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-2112

FIELD NUMBER : 86116SE097

PROJECT #

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NIS : 092B13

UTM ZONE : 10

GRID COORDINATES : E : 440230.0 N : 5414315.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC.

FINAL NAME :

ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.

MINERALIZATION : DISSEMINATED AND BLEBS.5-20% ,PYRITE.

FORMATION :

SAMPLED BY : S ENNS/ D MONEY

DATE : 10-AUG-86

ANALYTICAL

ANALYZED BY : ACME

DATE : 29-AUG-86

TECHNIQUE :

COMMENTS : SAME AS AB15939

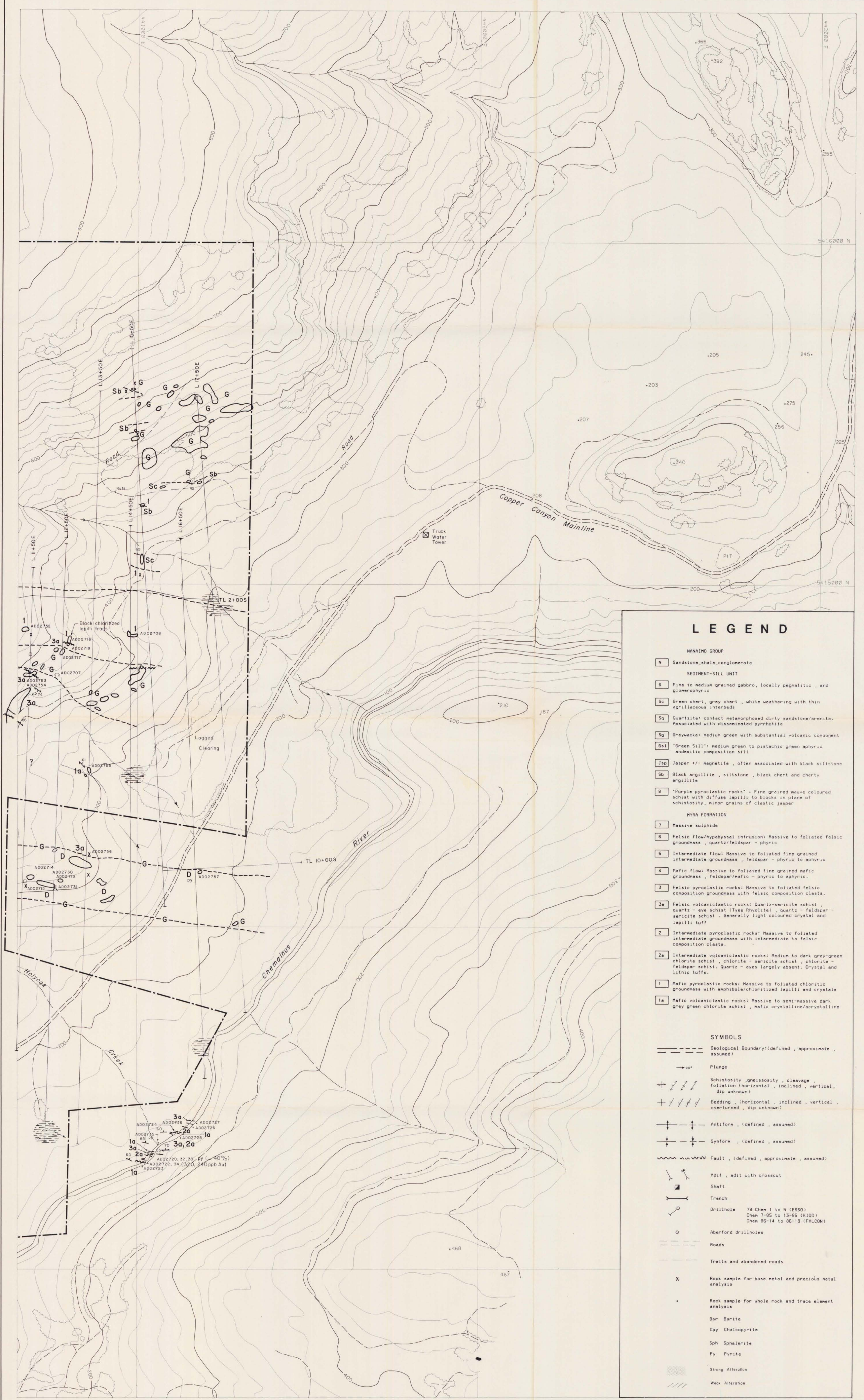
LITHOGEOCHEMICAL RECORD  
(MINOR ELEMENTS)

| SAMPLE<br>NUMBER |             |             |             |             |             |             |             |             |             |             |             |             | CODES |     |     |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-----|-----|
|                  | BA<br>(ppm) | CU<br>(ppm) | ZN<br>(ppm) | AG<br>(ppm) | AU<br>(ppb) | CO<br>(ppm) | NI<br>(ppm) | PB<br>(ppm) | AS<br>(ppm) | CD<br>(ppm) | MO<br>(ppm) | MN<br>(ppm) | ROCK  | ALI | MIN |
| AD02722          | 60.0        | 56.0        | <1.0        | <0.5        | 320.0       | 186.0       | 76.0        | 50.0        | 45.0        | <1.0        | 30.0        | 47.0        | IFAQI | PQM | MFP |
| AD02728          | 140.0       | 271.0       | 54.0        | <0.5        | <5.0        | 49.0        | 53.0        | 10.0        | 34.0        | <1.0        | 2.0         | 753.0       | IMB   | ?   | DCP |
| AD02729          | <20.0       | 151.0       | 82.0        | <0.5        | <5.0        | 27.0        | 110.0       | <5.0        | <5.0        | <1.0        | 1.0         | 1216.0      | MMANT | FCK | DBP |
| AD02730          | <20.0       | 17.0        | 2.0         | <0.5        | <5.0        | 1.0         | 11.0        | 8.0         | 27.0        | <1.0        | <1.0        | 47.0        | FQ    | FFH | A   |
| AD02731          | <20.0       | 24.0        | 4.0         | <0.5        | <5.0        | 4.0         | 23.0        | 7.0         | 30.0        | <1.0        | <1.0        | 96.0        | FQ    | ?   | A   |
| AD02732          | 450.0       | 13.0        | <1.0        | <0.5        | 35.0        | 116.0       | 57.0        | 53.0        | <5.0        | <1.0        | 54.0        | 53.0        | IFAQ  | PSW | DDP |
| AD02733          | 380.0       | 17.0        | <1.0        | <0.5        | 50.0        | 142.0       | 71.0        | 59.0        | <5.0        | <1.0        | 66.0        | 105.0       | IFAQI | PSW | DDP |
| AD02734          | 60.0        | 146.0       | 15.0        | <0.5        | 240.0       | 192.0       | 74.0        | 28.0        | 60.0        | <1.0        | 68.0        | 194.0       | IFA   | PQM | MEP |
| AD02735          | 300.0       | 144.0       | 6.0         | <0.5        | 65.0        | 140.0       | 109.0       | 22.0        | <5.0        | <1.0        | 127.0       | 319.0       | IMB   | ?   | MEP |
| AD02736          | 720.0       | 748.0       | 38.0        | <0.5        | 40.0        | 118.0       | 89.0        | 6.0         | <5.0        | <1.0        | 11.0        | 681.0       | IFAT  | PSM | DDP |
| AD02757          |             | 490.0       | 11.0        | <0.5        | <1.0        |             |             |             | <2.0        |             |             |             | PIB   | AA- | DCP |
| AB15932          |             | 6257        | 475         | 3.4         | 22          |             |             |             | 131         |             |             |             |       |     |     |
| AB15933          |             | 59120       | 1827        | 26.3        | 720         |             |             |             | 44          |             |             |             |       |     |     |
| AB15931          |             | 399         | 55          | 0.7         | 7           |             |             |             | 13          |             |             |             |       |     |     |
| AB15938          | 680         | 15229       | 484         | 8.9         | 135         |             |             |             | 33          |             |             |             |       |     |     |
| AB15941          | 2453        | 1865        | 42          | 0.9         | 6           |             |             |             | 26          |             |             |             |       |     |     |
| AB15492          | 774         | 256         | 43          | 0.3         | 1           |             |             |             | 6           |             |             |             |       |     |     |
| AB15944          | 1229        | 283         | 63          | 0.6         | 5           |             |             |             | 20          |             |             |             |       |     |     |
| AB15946          | 1148        | 88          | 17          | 0.3         | 12          |             |             |             | 12          |             |             |             |       |     |     |
| AB15947          | 931         | 61          | 915         | 0.4         | 1           |             |             |             | 46          |             |             |             |       |     |     |
| AB15948          | 2280        | 115         | 61          | 0.1         | 1           |             |             |             | 5           |             |             |             |       |     |     |
| AB15949          | 980         | 39          | 21          | 0.1         | 4           |             |             |             | 9           |             |             |             |       |     |     |

NUGGET OPTION (P.N. 142) METAL ANALYSES

p.1 of 1



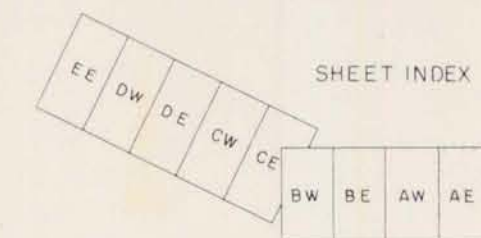


### LEGEND

- NANAIMO GROUP**
- N** Sandstone, shale, conglomerate
- SEDIMENT-SILL UNIT**
- G** Fine to medium grained gabbro, locally pegmatitic, and glomerophytic
  - Sc** Green chert, gray chert, white weathering with thin argillaceous interbeds
  - Sa** Quartzite: contact metamorphosed dirty sandstone/arenite. Associated with disseminated pyrrhotite
  - Sg** Greywacke: medium green with substantial volcanic component
  - Gs1** "Green Sill": medium green to pistachio green aphyric andesitic composition sill
  - Jsp** Jasper +/- magnetite, often associated with black siltstone
  - Sb** Black argillite, siltstone, black chert and cherty argillite
  - B** "Purple pyroclastic rocks": Fine grained mauve coloured schist with diffuse lapilli to blocks in plane of schistosity, minor grains of clastic jasper
- MYRA FORMATION**
- 7** Massive sulphide
  - 6** Felsic flow/hypabyssal intrusion: Massive to foliated felsic groundmass, quartz/feldspar - phytic
  - 5** Intermediate flow: Massive to foliated fine grained intermediate groundmass, feldspar - phytic to aphyric
  - 4** Mafic flow: Massive to foliated fine grained mafic groundmass, feldspar/mafic - phytic to aphyric.
  - 3** Felsic pyroclastic rocks: Massive to foliated felsic composition groundmass with felsic composition clasts.
  - 3a** Felsic volcaniclastic rocks: Quartz-sericite schist, quartz - eye schist (Type Rhyolite), quartz - feldspar - sericite schist. Generally light coloured crystal and lapilli tuff
  - 2** Intermediate pyroclastic rocks: Massive to foliated intermediate groundmass with intermediate to felsic composition clasts.
  - 2a** Intermediate volcaniclastic rocks: Medium to dark grey-green chlorite schist, chlorite - sericite schist, chlorite - feldspar schist. Quartz - eyes largely absent. Crystal and lithic tuffs.
  - 1** Mafic pyroclastic rocks: Massive to foliated chloritic groundmass with amphibole/chloritized lapilli and crystals
  - 1a** Mafic volcaniclastic rocks: Massive to semi-massive dark grey green chlorite schist, mafic crystalline/acrystalline
- SYMBOLS**
- Geological Boundary: (defined, approximate, assumed)
  - 90° Plunge
  - + / / / Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
  - + / / / Bedding, (horizontal, inclined, vertical, overturned, dip unknown)
  - ↑ Antiform, (defined, assumed)
  - ↓ Synform, (defined, assumed)
  - ~ Fault, (defined, approximate, assumed)
  - ⊥ Adit, adit with crosscut
  - Shaft
  - ⊥ Trench
  - Drillhole 78 Chem 1 to 5 (ES50)  
Chem 7-85 to 13-85 (K100)  
Chem 86-14 to 86-19 (FALCON)
  - Aberford drillholes
  - Roads
  - Trails and abandoned roads
  - X Rock sample for base metal and precious metal analysis
  - Rock sample for whole rock and trace element analysis
  - Bar Barite
  - Cpy Chalcopyrite
  - Sph Sphalerite
  - Py Pyrite
  - Strong Alteration
  - Weak Alteration



PRELIMINARY RECONNAISSANCE TYPE MAPPING  
Scale and elevation datum based on limited ground control resulting in good relative but uncertain map accuracy.

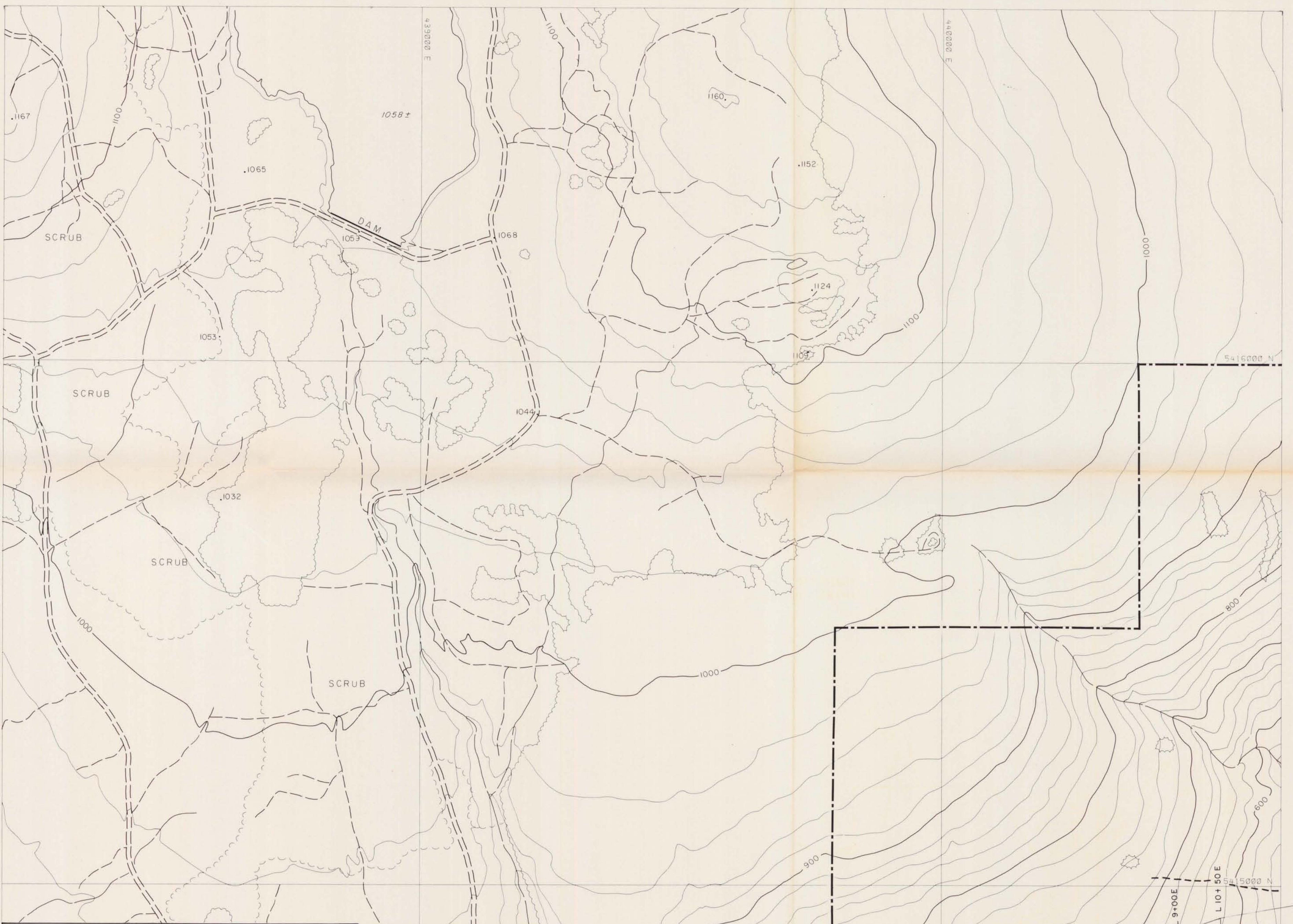


REF. No. 1113-0

The McElhanney Group Ltd.  
1166 Alberni Street, Vancouver B.C., Canada  
Compiled from aerial photography taken in May 1987  
at an approximate scale of 1:30 000  
SCALE 1:5 000      CONTOUR INTERVAL 20 metres  
DATE COMPLETED June 1987      SHEET NUMBER AE

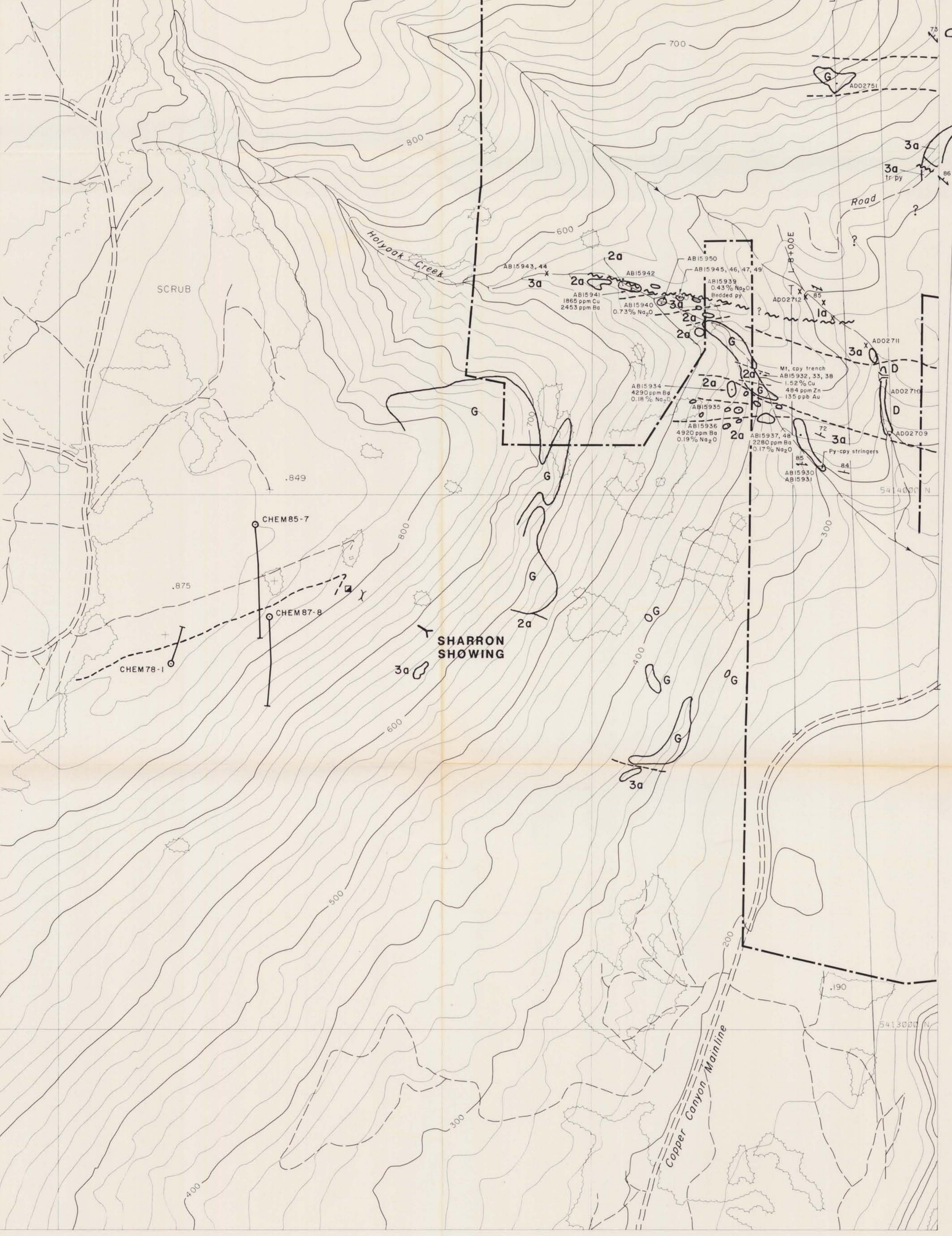
FALCONBRIDGE  
CHEMAINUS CLAIMS  
**NUGGET OPTION GEOLOGY**  
EAST SHEET  
Proj. No.: 142





# LEGEND

- NANAIMO GROUP**
- N** Sandstone, shale, conglomerate
- SEDIMENT-SILL UNIT**
- G** Fine to medium grained gabbro, locally pegmatitic, and glomerophytic
  - Gc** Green chert, grey chert, white weathering with thin argillaceous interbeds
  - Gq** Quartzite: contact metamorphosed dirty sandstone/arenite. Associated with disseminated pyrrhotite
  - Gg** Greywacke: medium green with substantial volcanic component
  - Gsl** "Green Sill": medium green to pistachio green aphyric andesitic composition sill
  - Jsp** Jasper +/- magnetite, often associated with black siltstone
  - Sb** Black argillite, siltstone, black chert and cherty argillite
- "Purple pyroclastic rocks"**: Fine grained mauve coloured schist with diffuse lapilli to blocks in plane of schistosity, minor grains of clastic jasper.
- MYRA FORMATION**
- 7** Massive sulphide
  - 6** Felsic flow/hypabyssal intrusion: Massive to foliated felsic groundmass, quartz/feldspar - phyrlic
  - 5** Intermediate flow: Massive to foliated fine grained intermediate groundmass, feldspar - phyrlic to aphyric
  - 4** Mafic flow: Massive to foliated fine grained mafic groundmass, feldspar/mafic - phyrlic to aphyric
  - 3** Felsic pyroclastic rocks: Massive to foliated felsic composition groundmass with felsic composition clasts.
  - 3a** Felsic volcanoclastic rocks: Quartz-sericite schist, quartz - eye schist (Type Rhyolite), quartz - feldspar - sericite schist. Generally light coloured crystal and lapilli tuff
  - 2** Intermediate pyroclastic rocks: Massive to foliated intermediate groundmass with intermediate to felsic composition clasts.
  - 2a** Intermediate volcanoclastic rocks: Medium to dark grey-green chlorite schist, chlorite - sericite schist, chlorite - feldspar schist. Quartz - eyes largely absent. Crystal and lithic tuffs.
  - 1** Mafic pyroclastic rocks: Massive to foliated chloritic groundmass with amphibole/chloritized lapilli and crystals
  - 1a** Mafic volcanoclastic rocks: Massive to semi-massive dark grey green chlorite schist, mafic crystalline/acrylline
- SYMBOLS**
- Geological Boundary: (defined, approximate, assumed)
  - 90° Plunge
  - + / / / Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
  - + / / / Bedding, (horizontal, inclined, vertical, overturned, dip unknown)
  - ↑ Antiform, (defined, assumed)
  - ↓ Synform, (defined, assumed)
  - ~ Fault, (defined, approximate, assumed)
  - Adit, adit with crosscut
  - Shaft
  - Trench
  - Drillhole 78 Chem 1 to 5 (ESSO)  
Chem 7-85 to 13-85 (KIDD)  
Chem 86-14 to 86-19 (FALCON)
  - Aberford drillholes
  - Roads
  - Trails and abandoned roads
  - x Rock sample for base metal and precious metal analysis
  - Rock sample for whole rock and trace element analysis
  - Bar Barite
  - Cpy Chalcopyrite
  - Sph Sphalerite
  - Py Pyrite
  - Strong Alteration
  - Weak Alteration



PRELIMINARY RECONNAISSANCE TYPE MAPPING  
Scale and elevation datum based on limited ground control resulting in good relative but absolute map accuracy.

SHEET INDEX

|    |    |    |    |    |
|----|----|----|----|----|
| EE | DW | DE | DW | DE |
| EW | BE | AW | AE |    |



The McElhanney Group Ltd.  
1166 Alberni Street, Vancouver B.C., Canada

Compiled from aerial photography taken in May 1987 at an approximate scale of 1:30,000

SCALE 1:5,000      CONTOUR INTERVAL 20 metres

DATE COMPILED June 1987      SHEET NUMBER AW

REF. No. 1113-0

FALCONBRIDGE

CHEMINAIS CLAIMS

**NUGGET OPTION GEOLOGY**

WEST SHEET

Proj. No. 142