ROSSLAND REGIONAL

PROGRAM

PN 095

1984

NELSON MINING DIVISION

NTS 82F 3,4

L. UHER
FEBRUARY, 1985

PN 146-095-84

LIST OF FIGURES

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SUMMARY

The Rossland Camp is located about 400km east of Vancouver and 8km north of the International Boundary, in the Rossland Mining Division map sheet 82F/4. Access to the camp is by highway with connections east to Calgary, west to Vancouver and south to Spokane.

The first claims in the Rossland Camp were staked in 1887, and most gold production took place prior to 1917. Total production to date has been 5.6 million tonnes, yielding 90.6 million grams gold, 115.7 million grams silver and 56000 tonnes copper. Ninety-eight per cent of the tonnage came from a small area about 0.6 square kilometers, centered on Red Mountain. The productive mines were: the Le Roi (39%), Centre Star (25%), War Eagle (24%) and Josie (10%), all now owned by COMINCO LTD.

Recent exploration activity with modern equipment and geological models has been limited. The Hughes-Lang Group have acquired several properties concentrating on high-grade, well-defined veins or vein systems, but there has apparently been no systematic evaluation of the volcanogenic massive sulphide potential in the volcanic country rock hosting the veins and in areas extant from the main camp.

The purpose of the Rossland project was a three pronged attempt at identifying new and old properties of potential interest to FALCONBRIDGE LIMITED.

1) Examination and evaluation of selected old prospects to test for high-grade vein-type targets of Rossland type.

2) Detailed lithogeochemical survey to test for Cu - Au volcanogenic massive sulphide potential.

3) Geological investigation of alteration zones at contacts of the Nelson pluton and the Rossland Group volcanics to test mineralization related to the contact.

1. INTRODUCTION

During the period of May 6, 1984 to August 26, 1984, a two man crew conducted a regional lithogeochemical survey in the Rossland area, concentrating on the volcanic units of the Jurassic Elise Formation.

The regional work in NTS 82F3,4 covered an area of about 1,200 square kilometers, and investigated the character, control and distribution of mineral deposits and alteration by regional geochemistry, lithogeochemistry and preliminary grid soil geochemistry.

The results were sufficiently encouraging to warrant the staking of the Swift and Doubt Claims (Figures 1 & 2).

2. PRE-FIELD PREPARATION

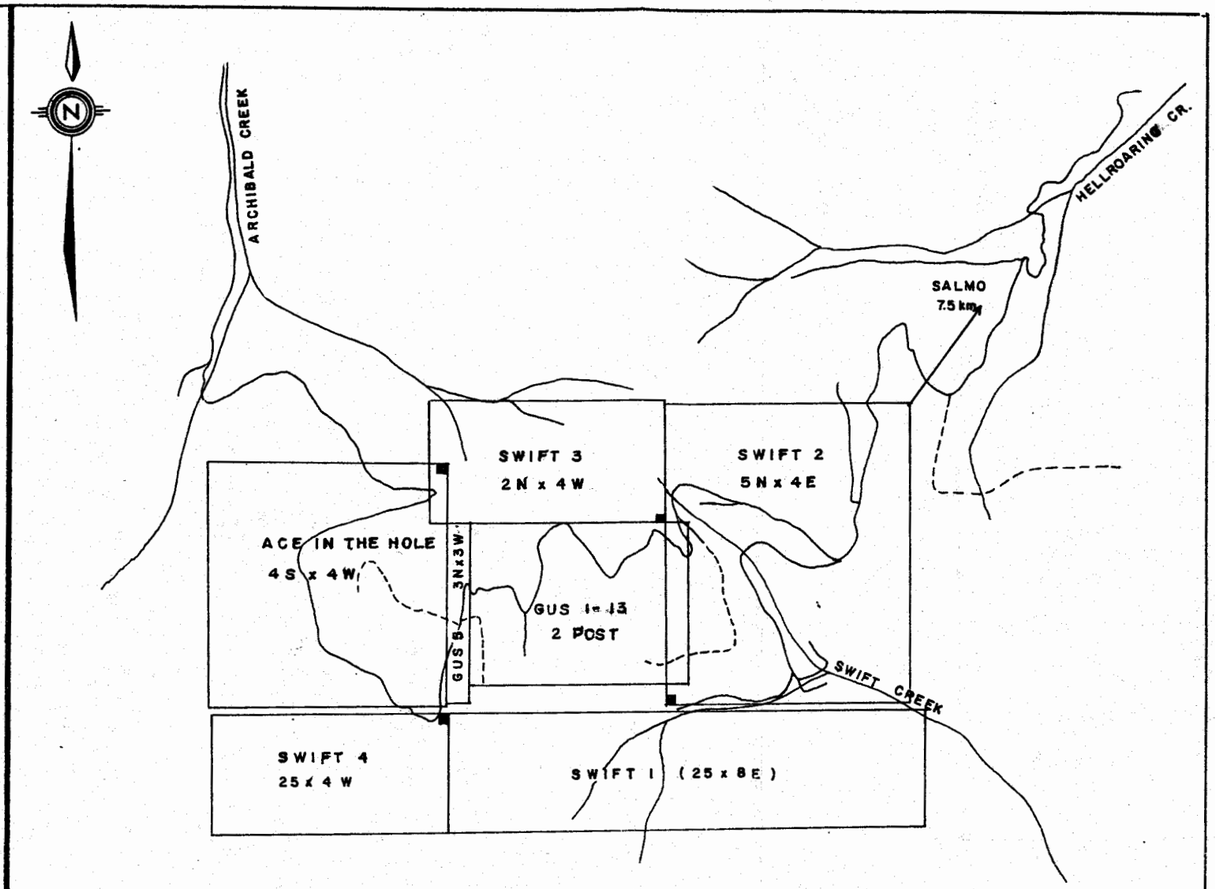
Little attention had been paid to the Rossland area since the early 1930's. A preliminary data-base was compiled from all available sources concerning known properties in the Rossland Camp (Hardy, 1983). In May of 1984 further research was conducted to target the most promising properties for investigation in conjunction with a regional lithogeochemical program.

The last was to concentrate exclusively on the Elise Formation, the volcanic component of the Rossland Group, and was adopted from techniques used by Corporation Falconbridge Copper successfully in the Canadian Shield. The program was based on the premise that the unique chemistry of an alteration zone is caused by wide scale hydrothermal processes associated with mineralization. Periods of quiescence after the deposition of the host volcanic package would have been especially favourable.

3. REGIONAL GEOLOGY

The Rossland Camp is underlain by Paleozoic and Lower Jurassic volcanics and sediments intruded by Cretaceous plutons. The Lower Jurassic Rossland Group outcrops in an arcuate belt 70km long and 7-12km wide. It is about 2000-3000m thick, and is intercalated with fine clastics of the Archibald and Hall Fm. Volcanic rocks in the Rossland Group are represented by the Elise Formation, which was deposited in the Rossland Trough, the western margin of a larger sedimentary basin which included the Quesnel Trough. Subsequent tectonism and intensive plutonism have destroyed this continuity.

The preserved Rossland Group consists of the pyroclastic and epiclastic debris which accumulated around isolated volcanic centres, as in an active island arc. The compositions are compatible with modern island arc volcanics which form in the late stages of arc development in a back arc extensinal regime. Modern analogs suggest the volcanics may have formed in a localized ocean basin extruding



SWIFT GROUP

FALCONBRIDGE LTD.

LOCATION MAP

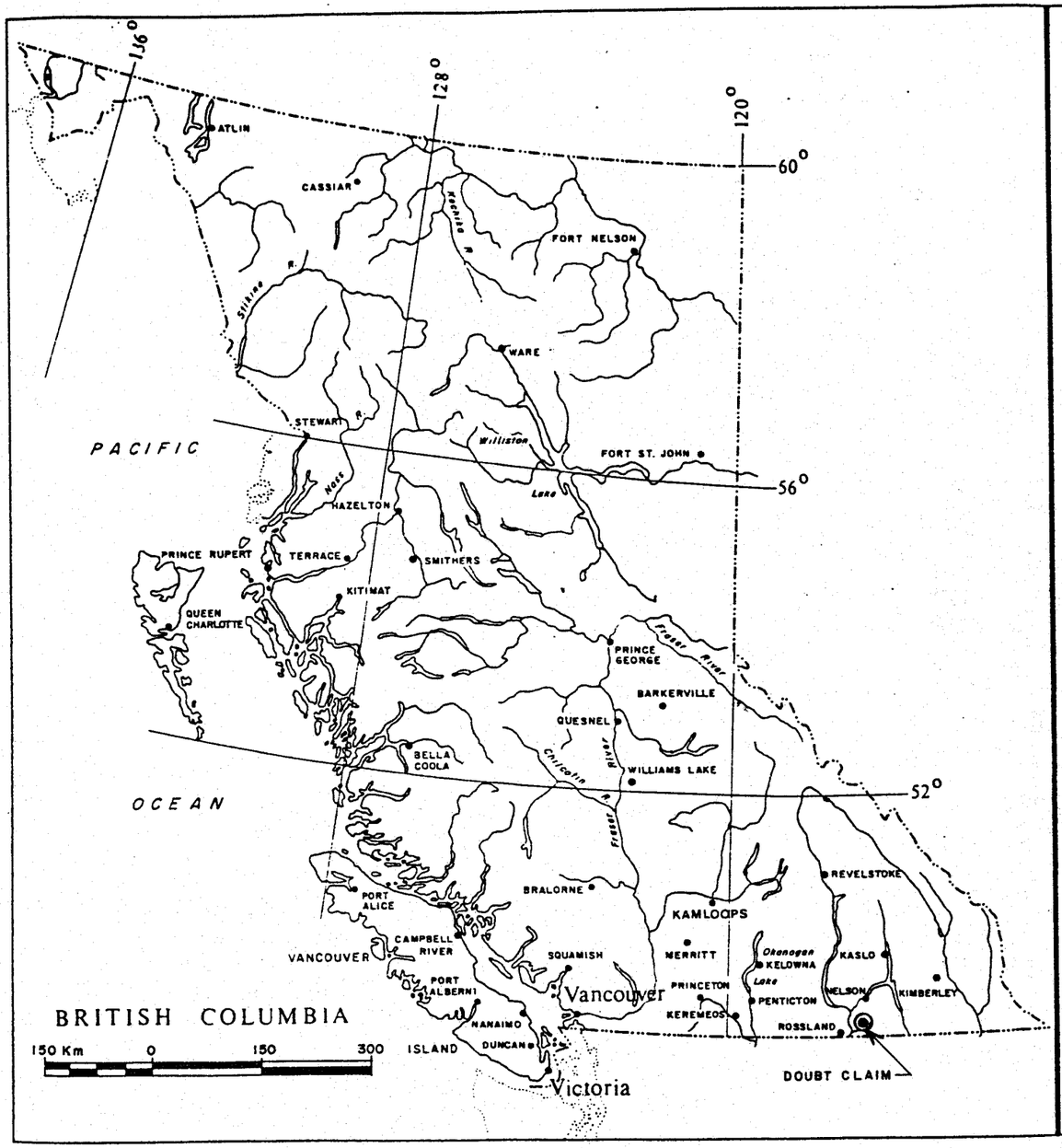
SCALE 1 : 50 000

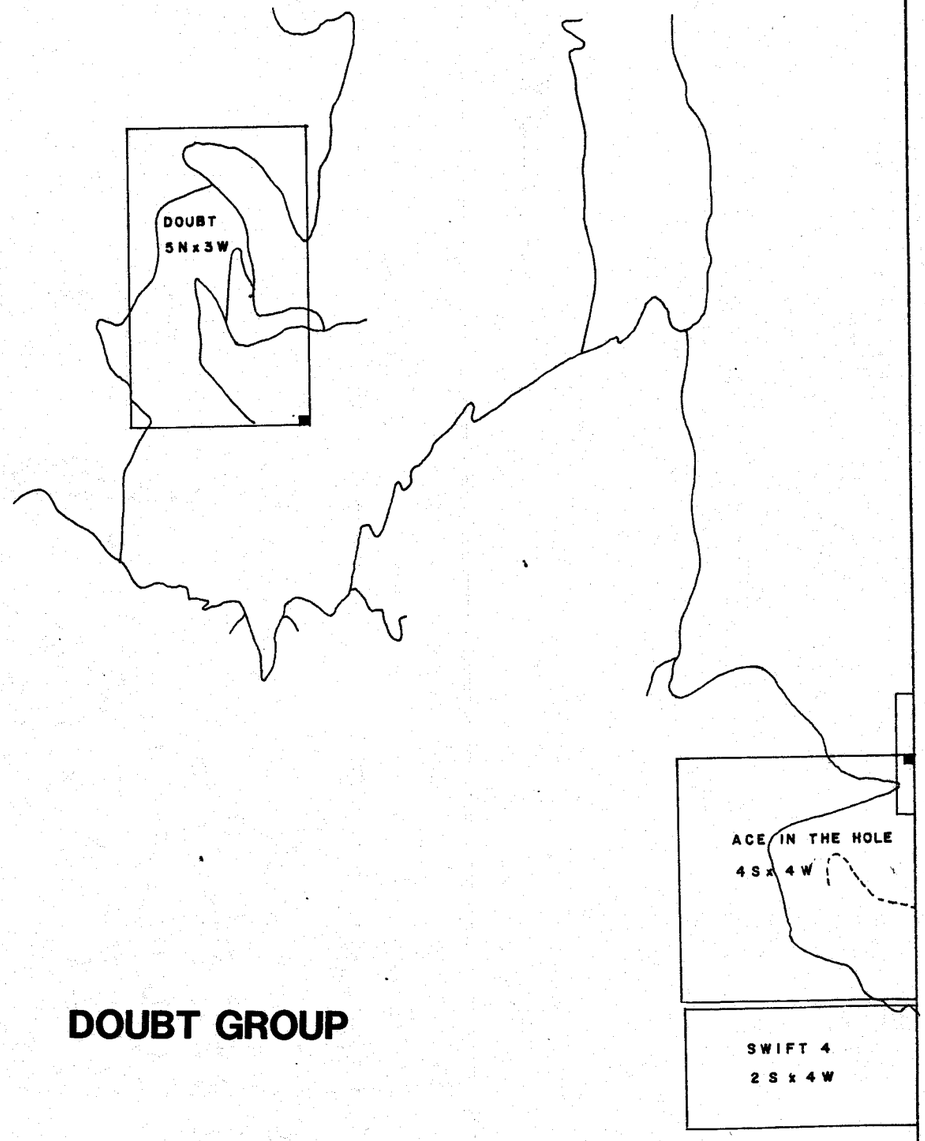
DRAWN BY : I. TOMECEK.

DATE : OCTOBER 84

N.T.S. 82 F 3

FIG. NO: 1





DOUBT GROUP

FALCONBRIDGE LTD.

LOCATION MAP

SCALE 1:50000

DRAWN BY: I. TOMĚCEK

DATE: OCTOBER 84

N.T.S.: 82 F 3

FIG. NO: 2

along faults bounding the western basin edge (Hardy, 1983).

In the map area the Archibald Formation has a limited aerial extent and consists mostly of hard, brittle, dark grey to black argillaceous siltstones and arenaceous argillites. The Hall Formation has a similarly limited aerial extent and consists mostly of black, carbonaceous shales and brown soft argillaceous sandstones (Little, 1982). Because of the limited aerial extent and unfavourable lithologies, the Archibald and Hall Formations were not considered to be favourable for volcanogenic targets and no systematic sampling was carried out.

Elise Formation was the most appealing target for an exhalative type deposit due to its large aerial extent, favourable lithologies, and numerous base and precious metal showings. The lithology of the Elise Formation in the Rossland-Trail-Salmo area is predominantly volcanic. These rocks consist mainly of flow breccias, massive lava flows, agglomerates, volcanic breccias, minor tuffs and related intrusive rock.

4. FIELD GEOLOGY

The Elise Formation sampled during the 1984 season stretches about 7km southward from Rossland to the International Boundary, and northeastward for about 30km to Fruitvale and Salmo, covering NTS sheets 82F3 and 4.

In the immediate vicinity of Rossland, the character of the Formation is predominantly massive dark greenish andesitic flows. Less common are augite porphyries and clastic flows with limestone fragments. Further south the character of the formation changes gradually to that of interbedded or possibly "interfingered" massive andesitic flows and laminated black shales. Individual flows vary greatly in thickness, from less than 1m to over 150m. Alteration is for the most part restricted to slight propylitization giving most of the volcanic units a greenish tinge. Silicification of both volcanic and sedimentary units is common near old mine workings and prospects Near Malde Creek intrusive stocks of the Sheppard Formation have altered and silicified the country rock, but no mineralization was seen.

Silicification near and within King George Park (Figure 4a,b) was tested by a reconnaisance soil grid (Figure 3a,b,c) as rock assays from a 2m deep pit located in the park gave the following results: 56ppm Ag, 5100ppm Pb, 340ppm Cu, 72ppm Zn. It appears that most of the alteration and the associated mineralization are related to Sheppard stocks. Mineralization is limited to stringer like ore crosscutting the sedimentary and volcanic units. No indication of stratified mineralization or stratabound alteration was found.

The area east of Fruitvale is compositionally much more complex than that south of Rossland. Rocks are dominantly of volcanic composition, but sedimentary units are common interbedded within the volcanics. The most common volcanic unit is a fine grained, massive,

greenish andesite. Augite porphyries are common, particularly south of Kelly Creek, where the augite porphyry may be one continuous flow of about a 60 to 100 meter thickness. Associated with the augite flow are minor flows of hornblende porphyries and lenses of feldspar porphyries. Beds of fine welded tuffs and coarse fragmental tuffs are usually less than 5 meters thick, also associated with the augite porphyry. Further south of Kelly Creek is a flow of amygdaloidal andesite about 50 to 80 meters thick. On the north side of Kelly Creek the most abundant units are of sedimentary composition. Black slatey shales and debris flows contain various fragments of sedimentary as well as volcanic and intrusive composition. Fragments range up to about 1 meter across and are rounded to subrounded.

Further to the north, near highway 3B, Little (1982), mapped a unit of the Archibald Formation as distinctly separate from the Elise volcanics. The writer has however found several volcanic flows of Elise volcanics within this sedimentary sequence, suggesting a contemporaneous deposition, perhaps a long distance from a volcanic source.

In all, seven geological units with two subunits have been recognized within the Elise volcanics;

1a) Fragmental Flows, where fragments have close affinity to surrounding matrix, usually dark greenish-black, less than 1% pyrite.

1b) Fragmental "Basal" Flows, where fragments are usually composed of limestone, shale, sandstone and minor chert, matrix is dark greenish-grey with fragments being very conspicuous due to their different colors; this unit contains almost no pyrite.

2a) Augite Porphyry, may be intrusive but flows have been recognized, greenish-grey, pyrite rare.

2b) Hornblende Porphyry, rare and closely associated with augite porphyry flows.

3) Amygdaloidal Andesite and/or Basalt, with calcite-filled amygdules, dark brown-blackish, no sulphides.

4) Schistose Andesites, bluish in color with alignment of minerals and fragments, where present, bluish or greenish; no pyrite or other sulphides.

5) Albitized (?) Quartz Eye Porphyry, with finely disseminated hematite, white to pinkish, very hard.

6) Debris Flows, may possibly be turbidite deposits

with varying fragment composition and size; fragments are subrounded to rounded and up to 1m across; matrix is greenish-black, with fragments of differing compositions no pyrite or other sulphides.

7) Black and Brown Laminated Shales, no visible sulphides, often weathers rusty.

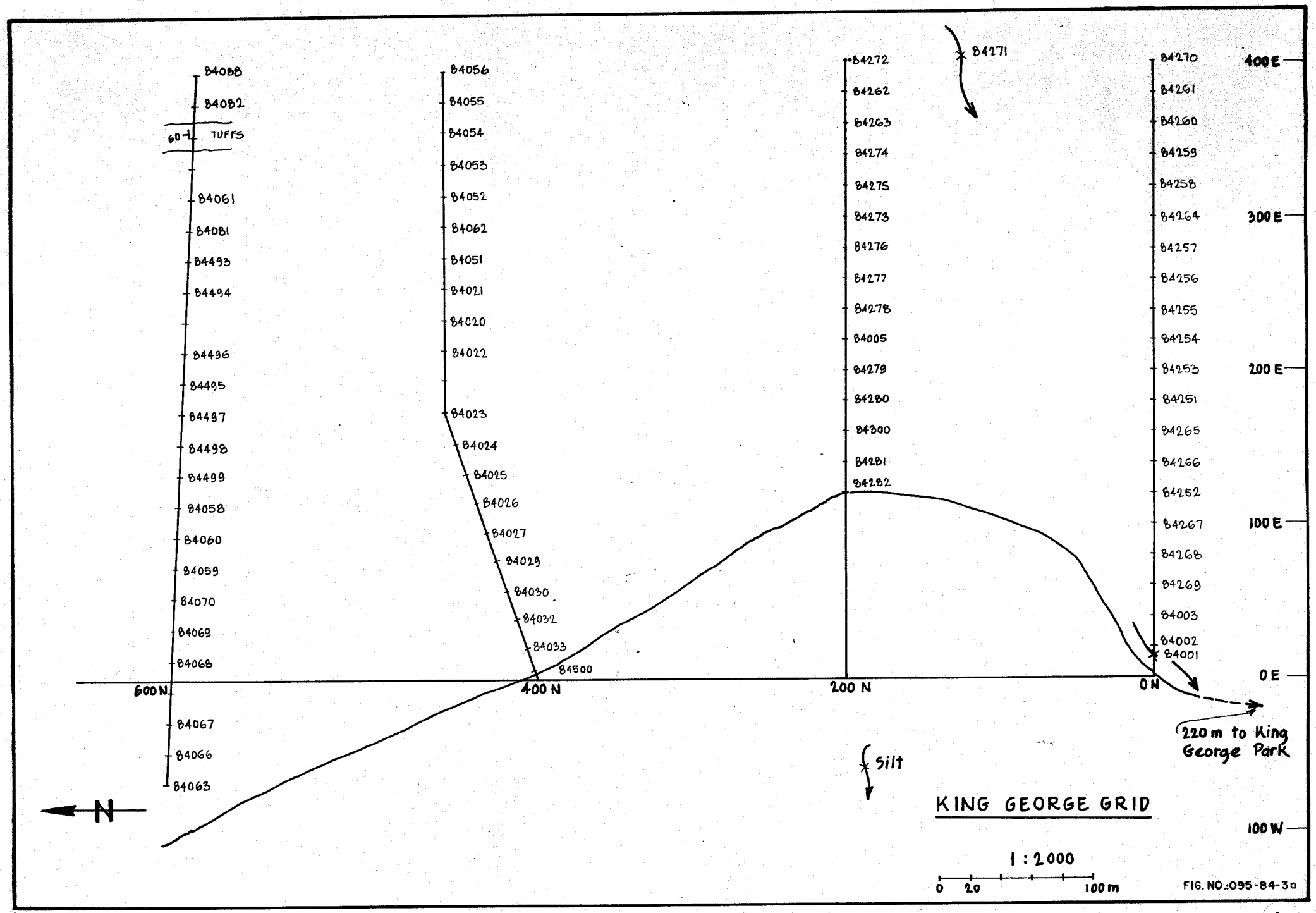
4.1 ALTERATION

Alteration east of Fruitvale is for the most part restricted to light propylitization with minor (usually 1%) disseminated pyrite. Two areas of carbonatization, silicification, intense propylitization and argillic alteration have been recognized. One of the alteration zones is located at the head waters of the East Tillicum Creek. This zone exhibits pervasive silicification and albitization (?). Typical rock from this area will have an aphanitic whitish to pinkish matrix with about 5% quartz eye phenocrysts and about 1% disseminated specular hematite. Within this zone is a shaft about 5 meters deep, sunk on a narrow quartz vein which contains sparse galena mineralization. Assays of this quartz vein gave the following values: 995ppb Au, 81.0ppm Ag, 8500ppm, Zn, 14,500ppm Pb, 4800ppm Cu. The Ace grid (Figures 4a,b,c) was established on this alteration zone to determine background levels and possible anomalies.

The second alteration zone, which is probably continuous with the one discussed above is located between the headwaters of East Tillicum and Swift Creeks. It straddles the contact between the Nelson batholith and the Elise volcanics. This zone is called the ET Zone (Figure 5). The ET zone is about 7km long and 2km wide with the highest degree of alteration being roughly central to the zone. The alteration at the centre is "advanced argillic ???" Typical outcrop in this area has a bright pinkish to reddish color. Mineralogy consists of bright (?) green pyrophyllite, clays and (?) potassium feldspar. Progressing away from the centre, the alteration decreases to argillic (???) or carbonatization or silicification and saussuritization. The decrease of the degree of alteration is not orderly in that different degrees of alteration may be encountered the same distance from the apparent centre in different directions. About 1km from the centre, the alteration is usually pervasive (???) propylitization with up to 10% pyrite, though pockets of more and less alteration are often found. The Gus Grid (Figures 6a,b,c,) was established within the ET zone to determine soil background levels and possible anomalies.

4.2 STRUCTURE

The structure south of Rossland appears to be relatively simple without major faulting or folding. Regional strike is northeasterly with dips ranging from 60 to 90 degrees west. East of Fruitvale the area appears to be structurally more complex than south of Rossland. Due to this complexity, and variable overburden cover, relationships between the recognized units are not clear. Evidence of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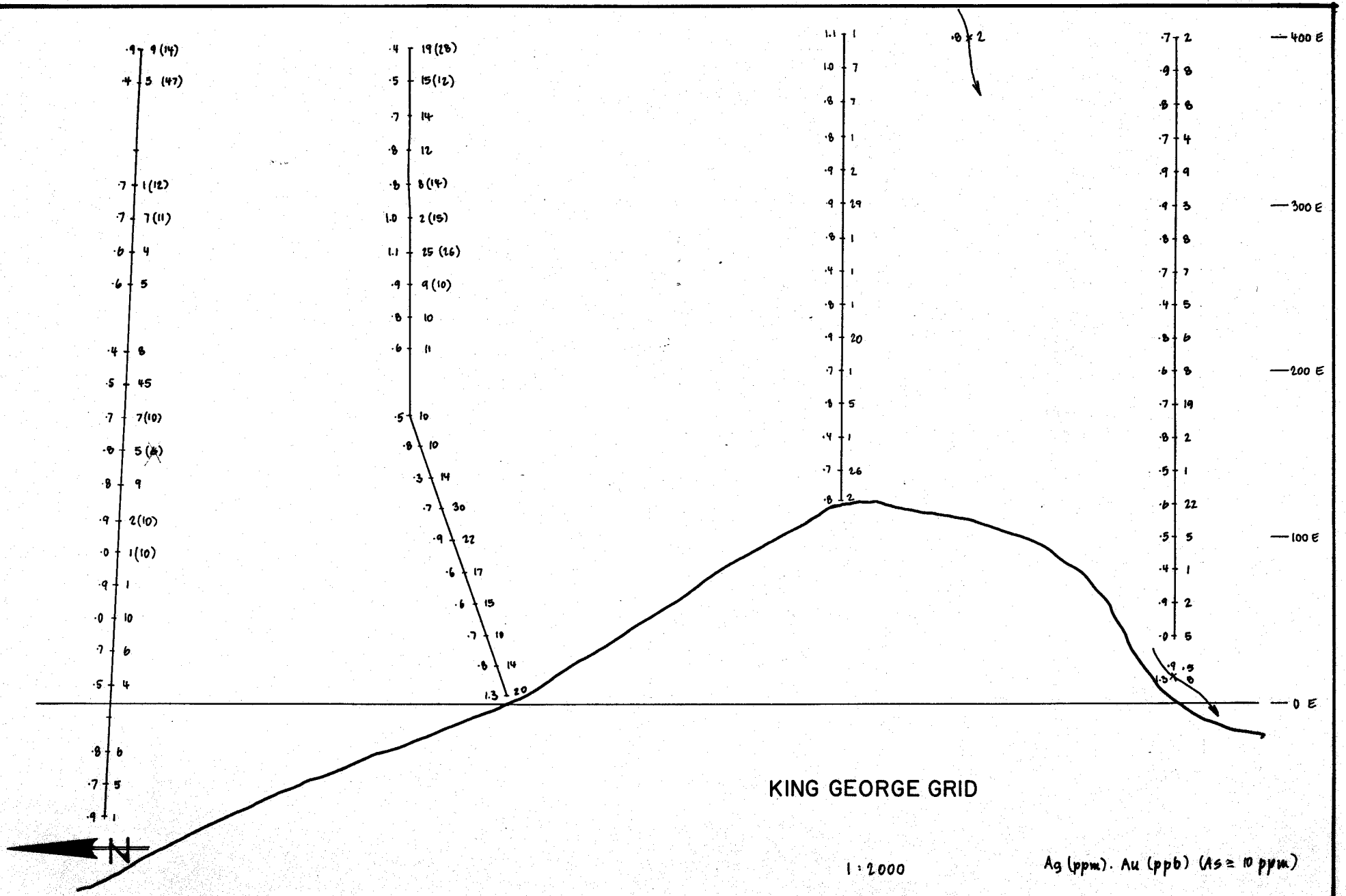
84267
84268
84269
84003
84002
84001
600 N
400 N
200 N
0 N
400 E
300 E
200 E
100 E
0 E
100 W
220 m to King George Park
Silt
N
KING GEORGE GRID
1 : 2000
0 20 100 m
FIG. NO. 095-84-3a



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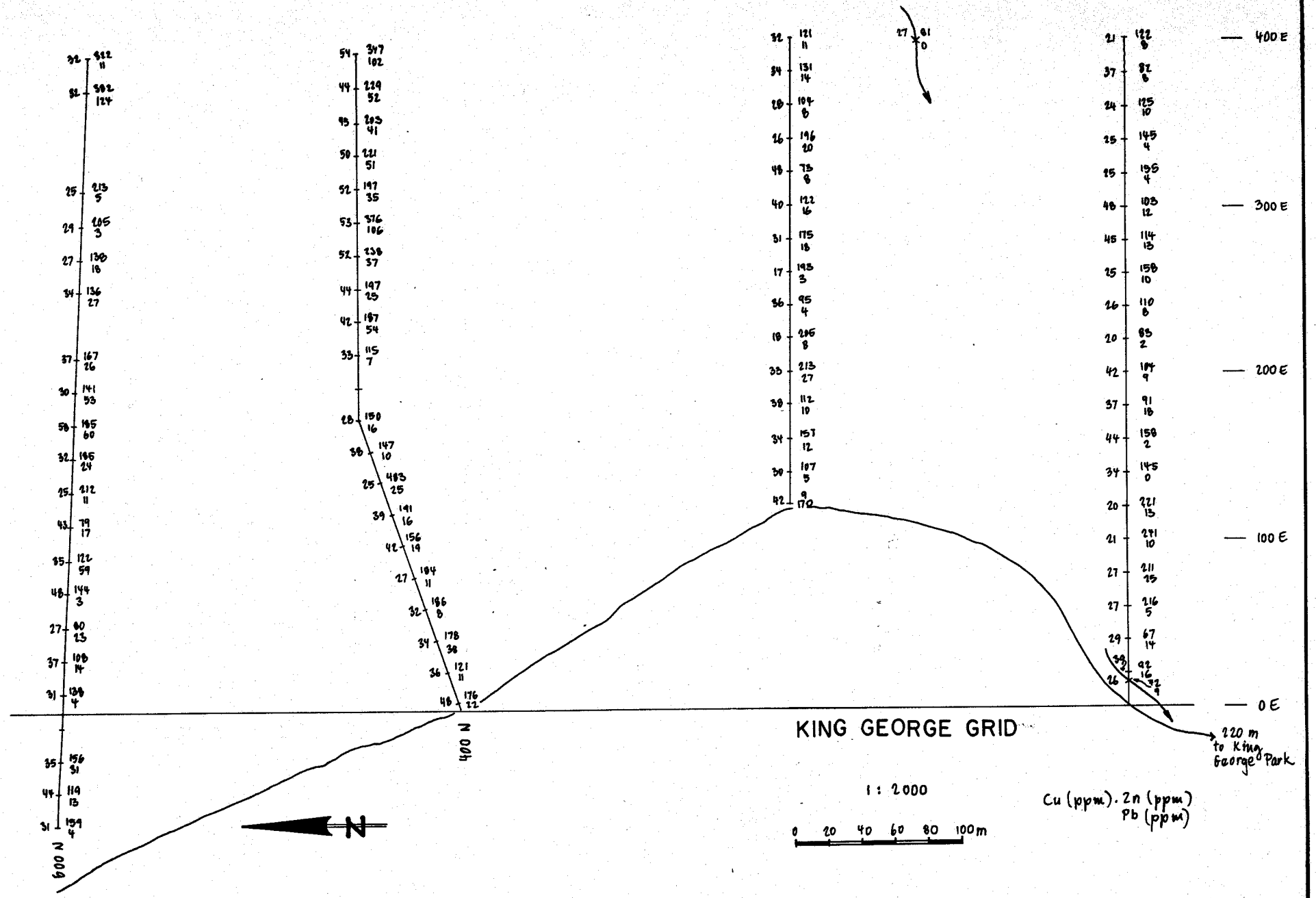
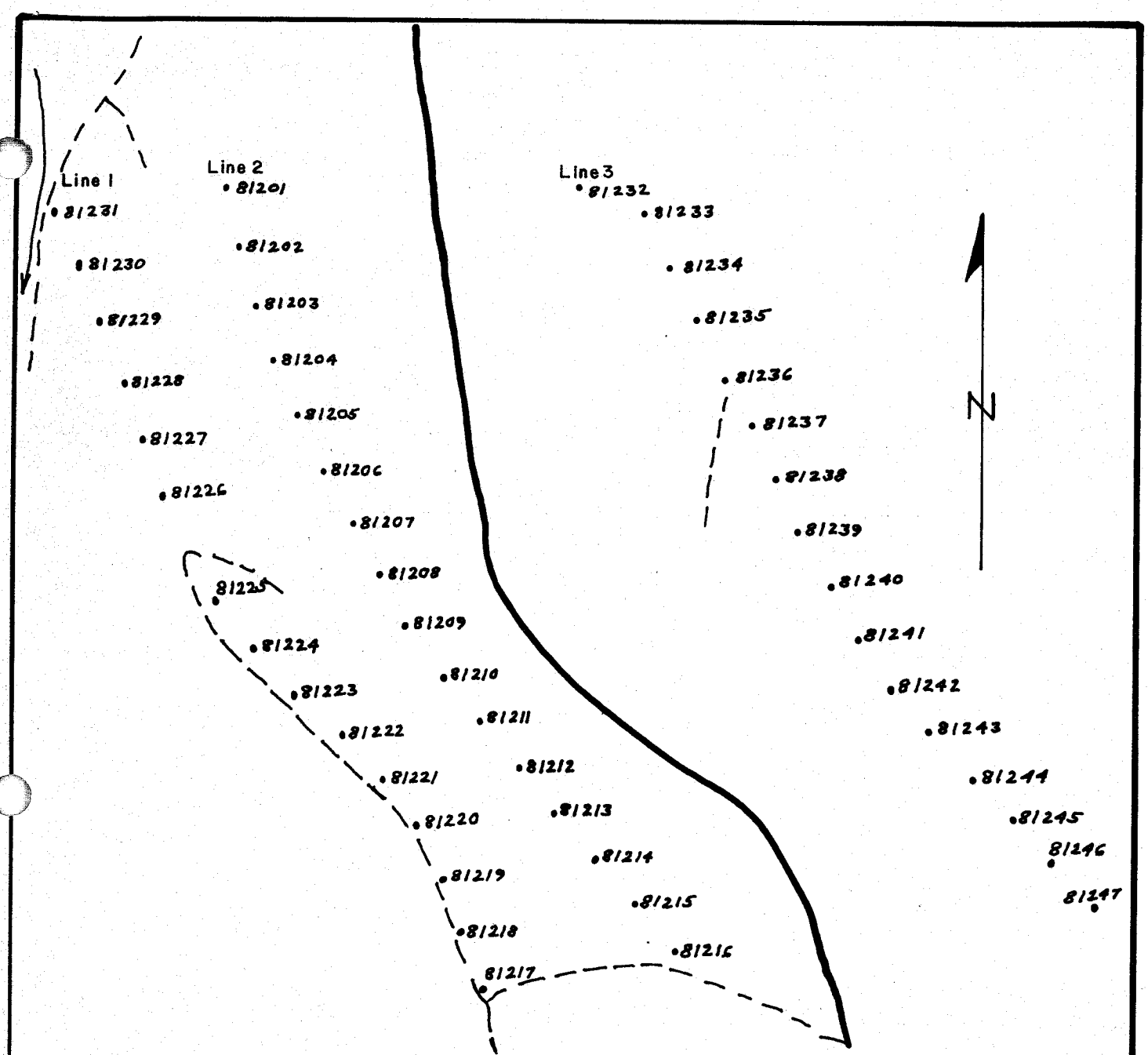


FIG. NO.:095-84-3c



LEGEND

Main logging road

Skid road

Soil Sample location

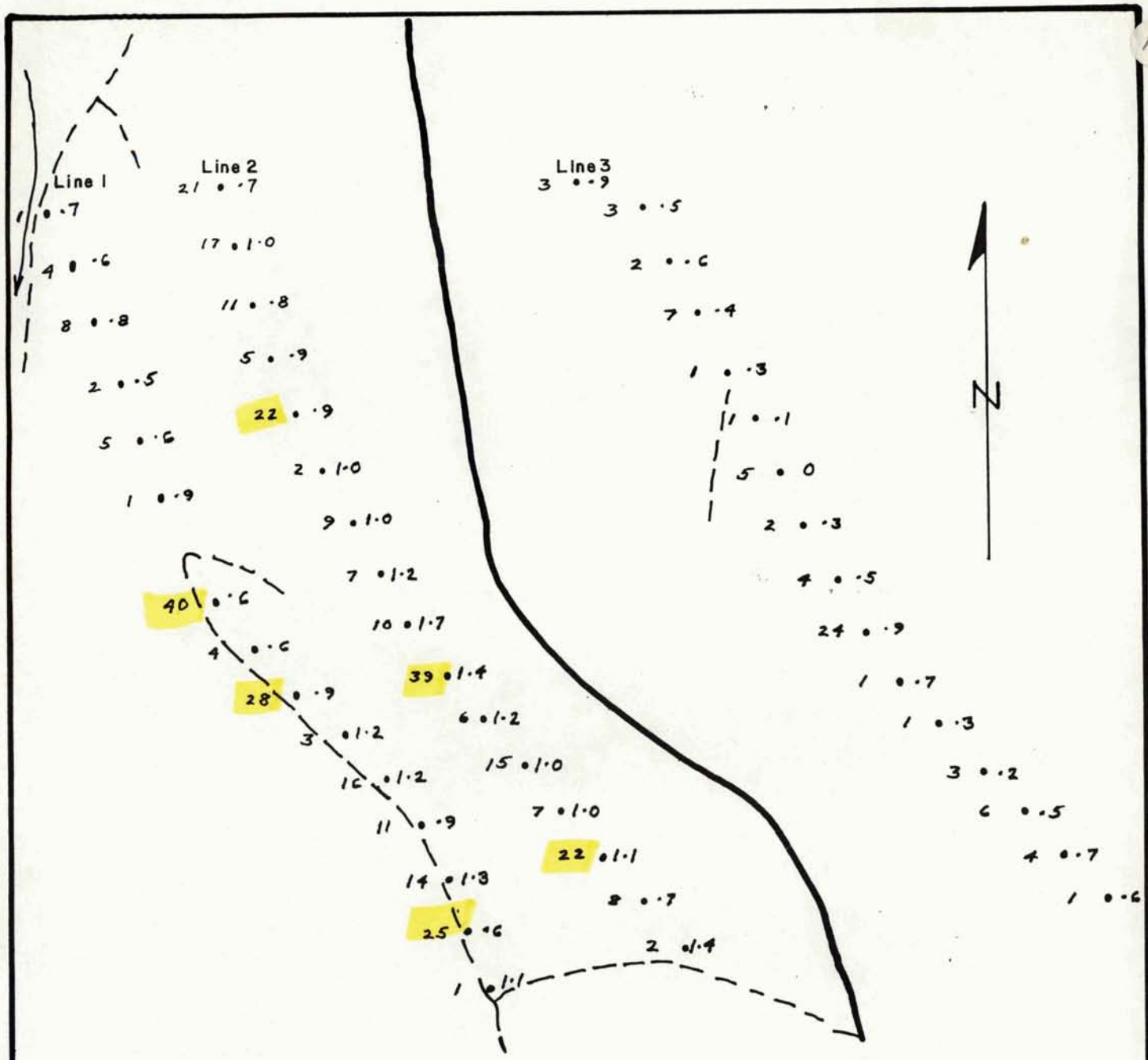
SCALE: 1:2,000

Rossland Regional

Ace Group Contour Soil Sampling

Contour intervals 50' Feet

FIG. NO.:095-84-4a



LEGEND

Main logging road

Skid road

Soil Sample location

Au. ppb ● Ag. ppm

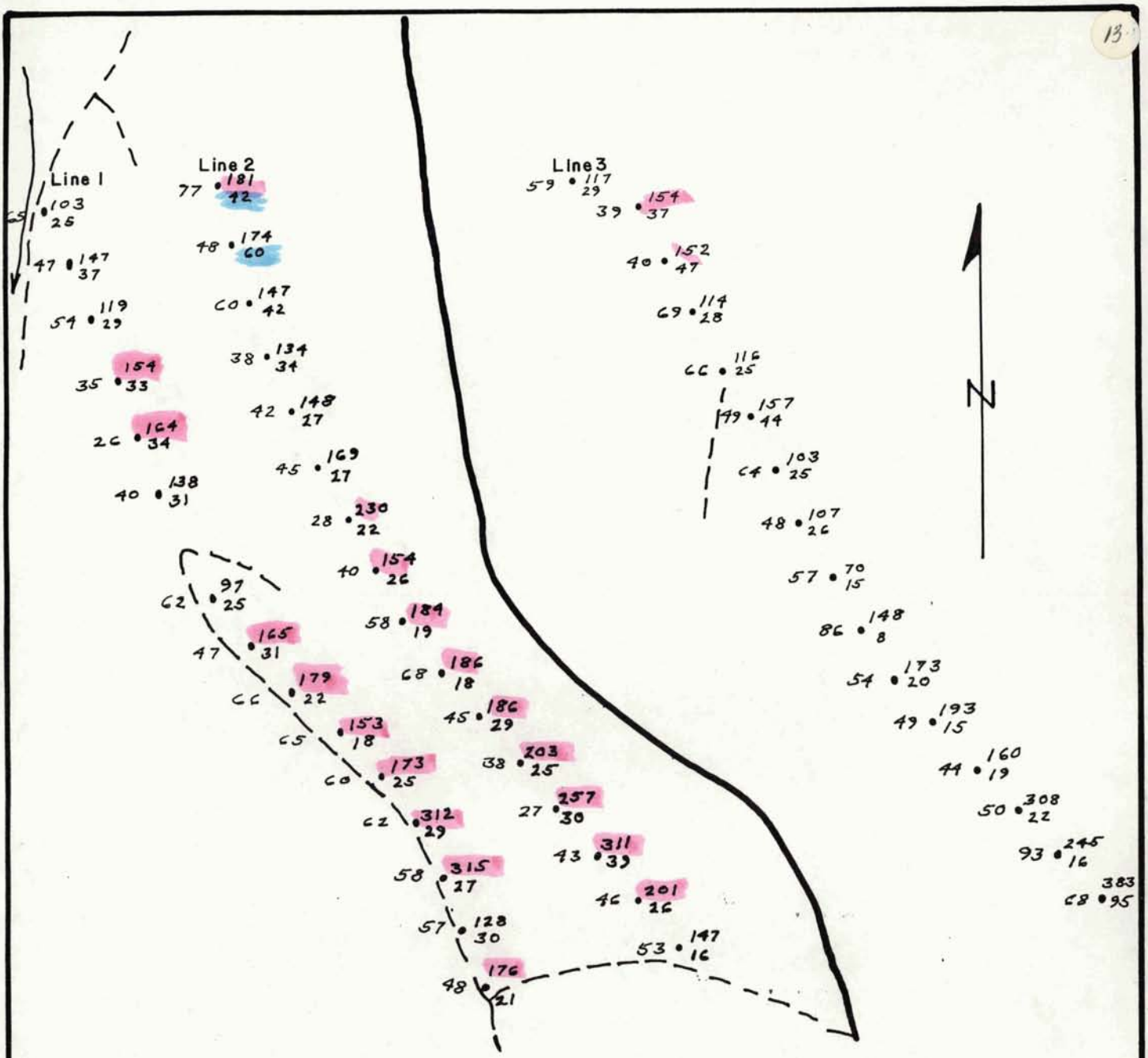
SCALE: 1:2,000

Rossland Regional

Ace Group Contour Soil Sampling

Contour intervals 50' Feet

FIG. NO.:095-84-4b



LEGEND

Main logging road

Skid road

Soil Sample location

SCALE: 1:2,000

Rossland Regional

Ace Group Contour Soil Sampling

Contour intervals 50' Feet

Cu. ppm. • Zn. ppm.
Pb. – "–

>150

FIG. NO.:095-84-4c

major tectonism is suggested by highly differing strikes and dips within restricted areas. But overall the regional strike is northeasterly, with dips ranging from 20 to 90 degrees west, though several easterly dips were observed.

5. LITHOGEOCHEMISTRY

5.1 Introduction

A systematic exploration program with focus on lithogeochemistry was carried out to investigate potential of the Elise Formation of the Rossland Group.

A two man crew consisting of the writer and an assistant carried out a systematic lithogeochemical and geochemical program during the period, June 9 to August 30, 1984.

The purpose of the program was to confirm the presence of to date unrecognized alteration areas or halos, and to evaluate old prospects and workings for the possibility of unrecognized potential.

5.2 Sampling

Sampling involved the collection of samples from all volcanic rock types belonging to the Elise Formation. Two samples of about 1/2kg each were collected at each site - one for a lithogeochemical analysis and one for later reference and/or to prepare thin sections from. Samples were collected across well-exposed sections wherever possible, however, in areas of poor exposure, or areas of high interest e.g. alteration, samples were taken from all available outcrops. Care was taken to ensure that only the most representative, non-weathered samples were collected. In heterogeneous outcrops, particularly those of layered rocks, attention was paid to sampling the different components. Details of sample variability such as colour, mineralogy, alteration, weathering, rock name, presence of sulphides and textures were kept on a standardized table form. Sample density varied from 10 to 40 samples per square kilometer, depending on frequency of exposure, lithology and alteration (Figures 7a,b,c,d,8a,b,c,d).

5.3 Analyses

Samples were shipped to Terramin labs of Calgary. Following preparation of minus 200-mesh pulps, the samples were analyzed by XRF and atomic absorption spectrophotometry for a total of ten elements: SiO2, K2O, Na2O, Ba, and TiO2. Cu, Zn, Ag and Au were analyzed by atomic absorption.

Plots were made of SiO2 vs total alkalis following the method of Irvine & Baragar (1971) as shown in Figure A Elise Group rocks of the study area fall generally in the calcalkaline field. Most of the outlying samples were collected on property examinations for comparison purposes. Many of these properties are located well

$Na_2O + K_2O$ vs SiO_2

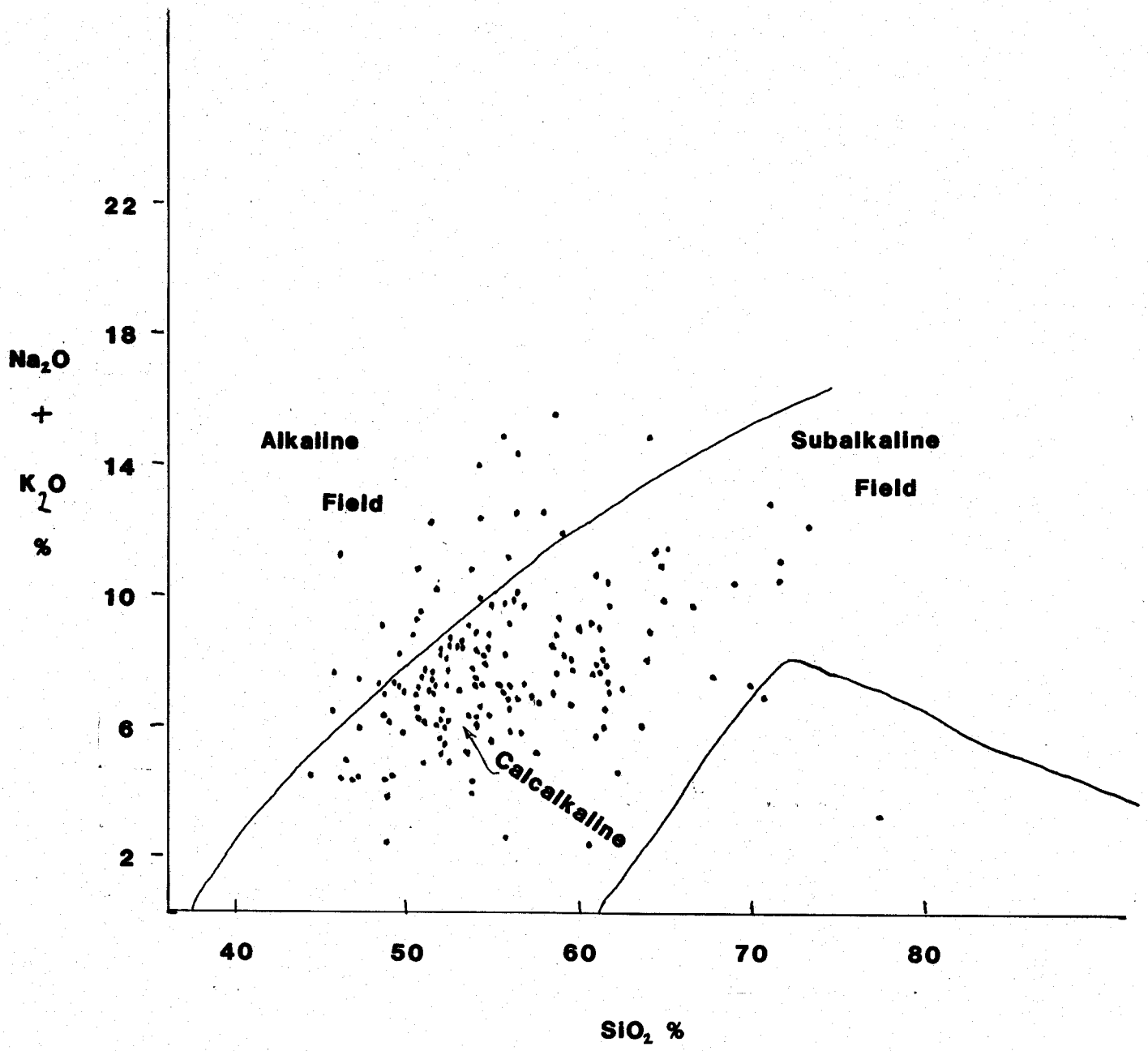
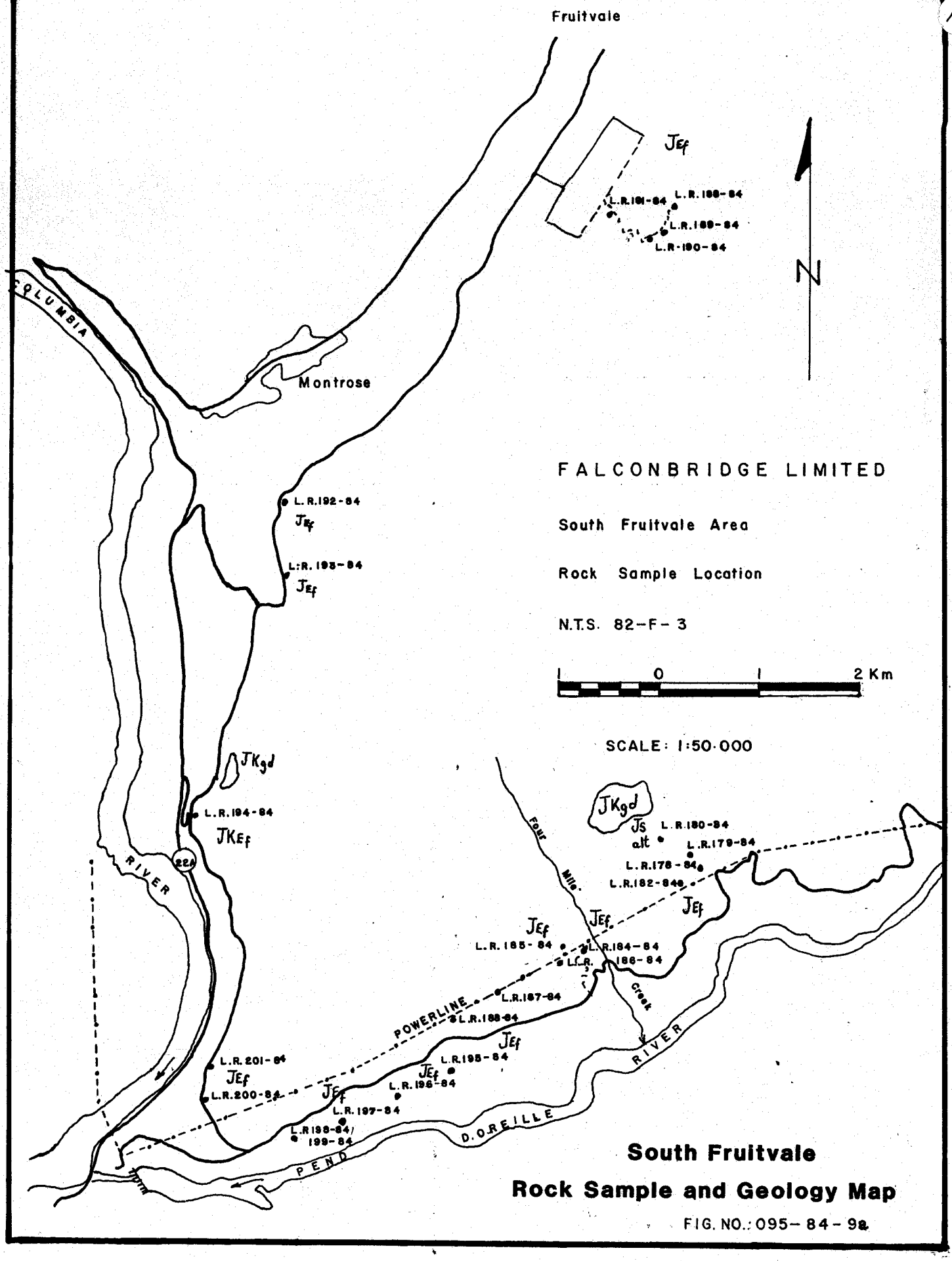


Figure A: Rossland Regional Plot of SiO_2 vs $Na_2O + K_2O$.

(after Irvine & Baragor, 1971)



FALCONBRIDGE LIMITED

South Fruitvale Area

Rock Sample Location

N.T.S. 82-F-3

1 0 1 2 Km

SCALE: 1:50·000

South Fruitvale

Rock Sample and Geology Map

FIG. NO.: 095-84-9a

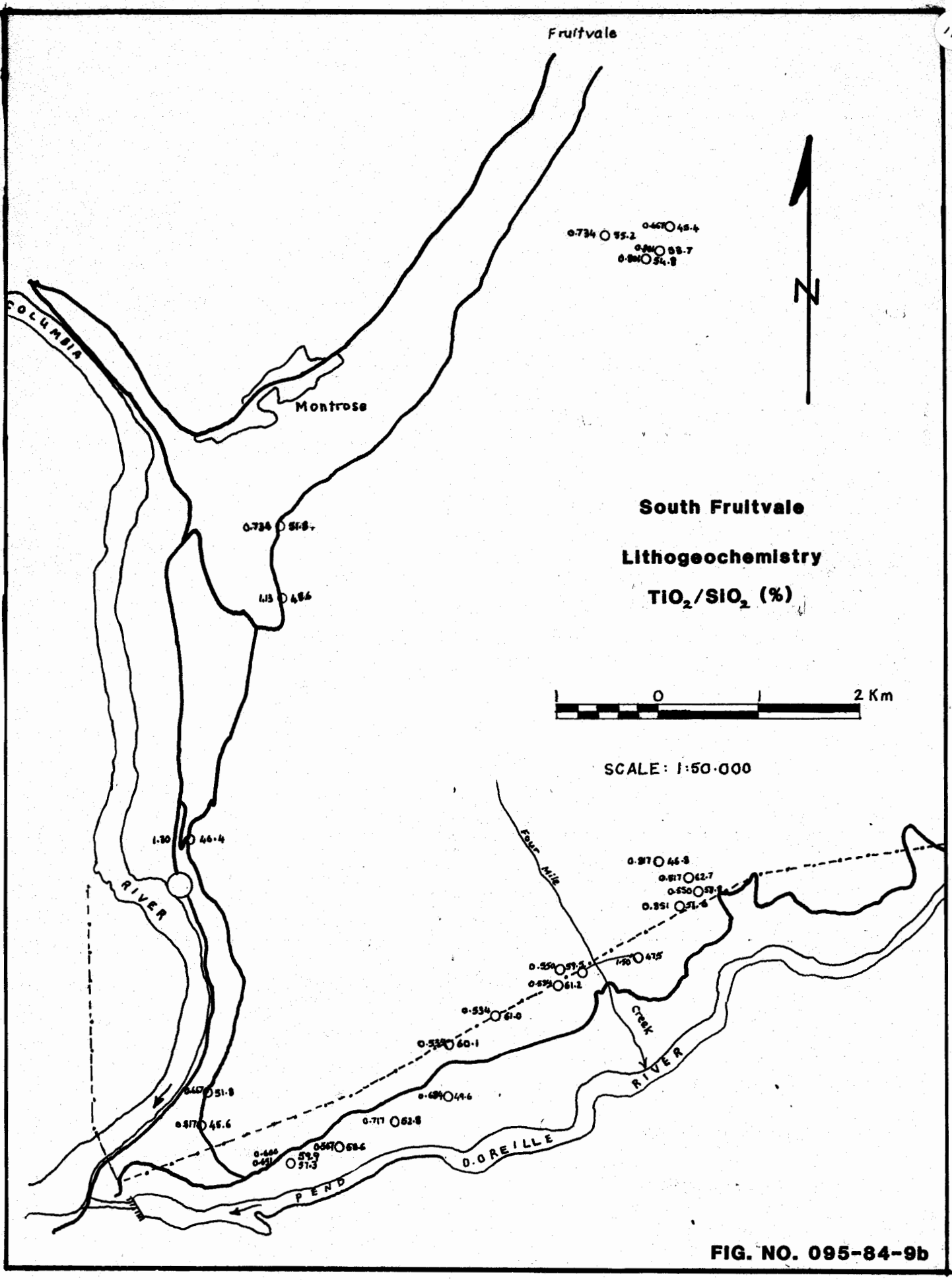


FIG. NO. 095-84-9b

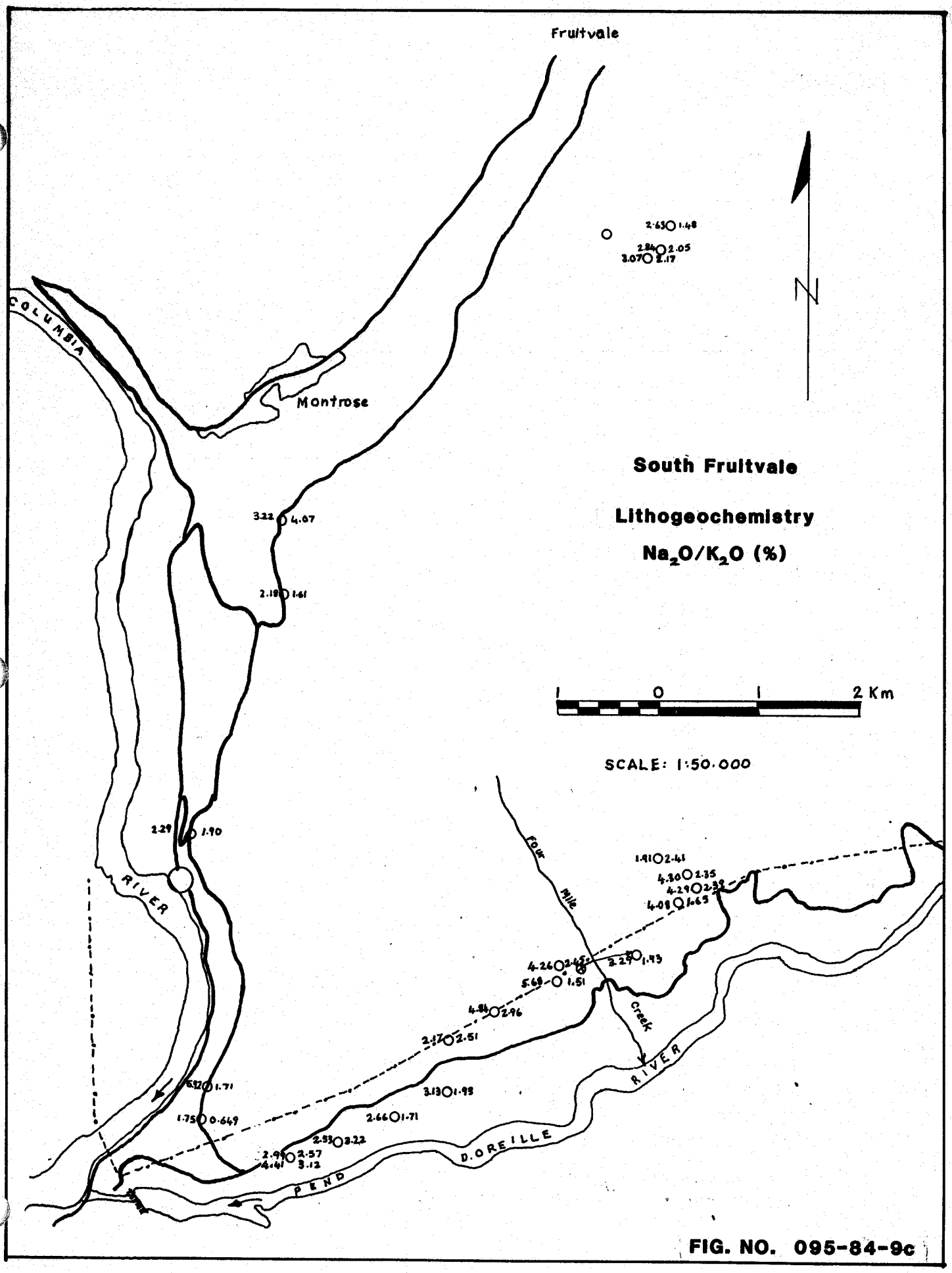
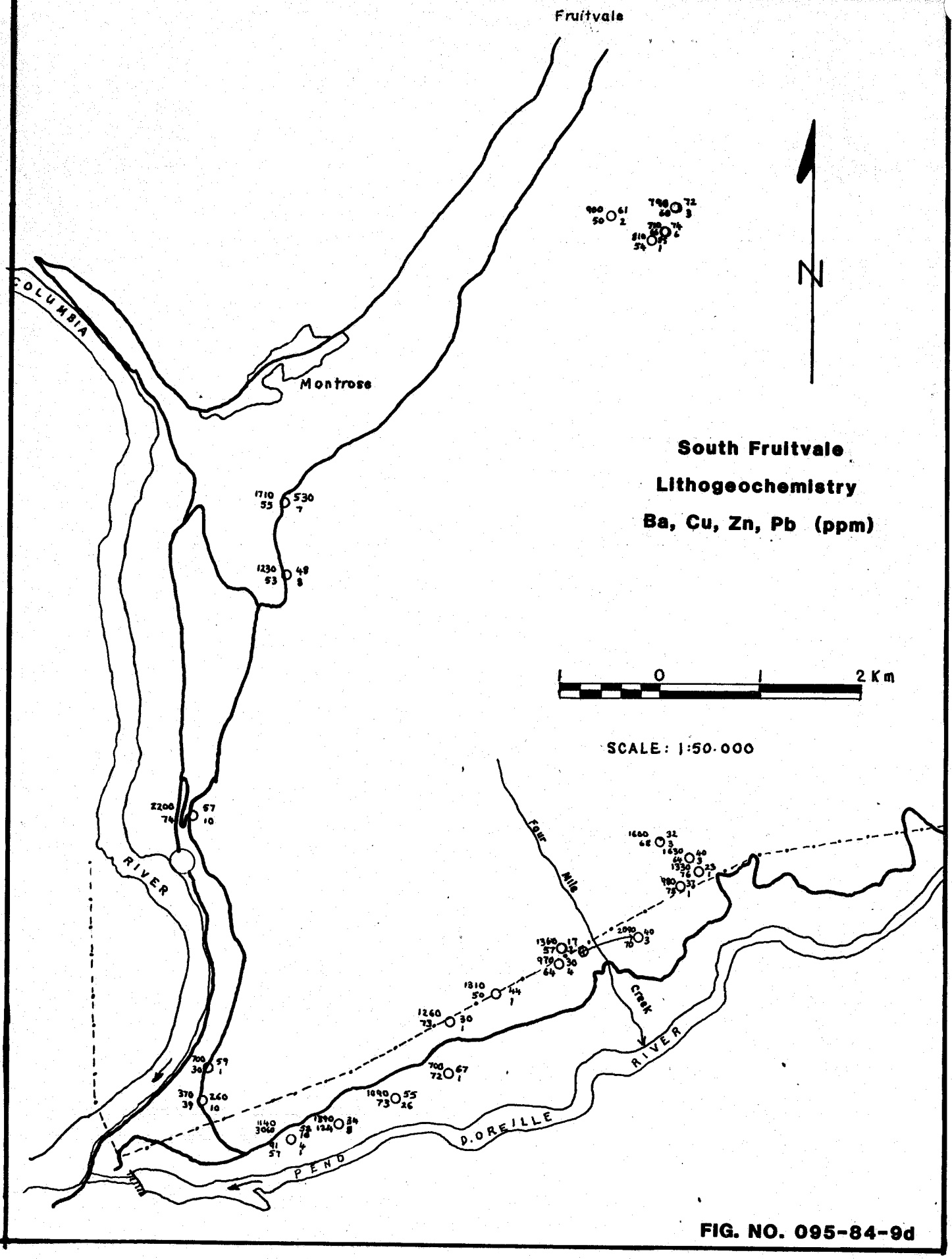


FIG. NO. 095-84-9c



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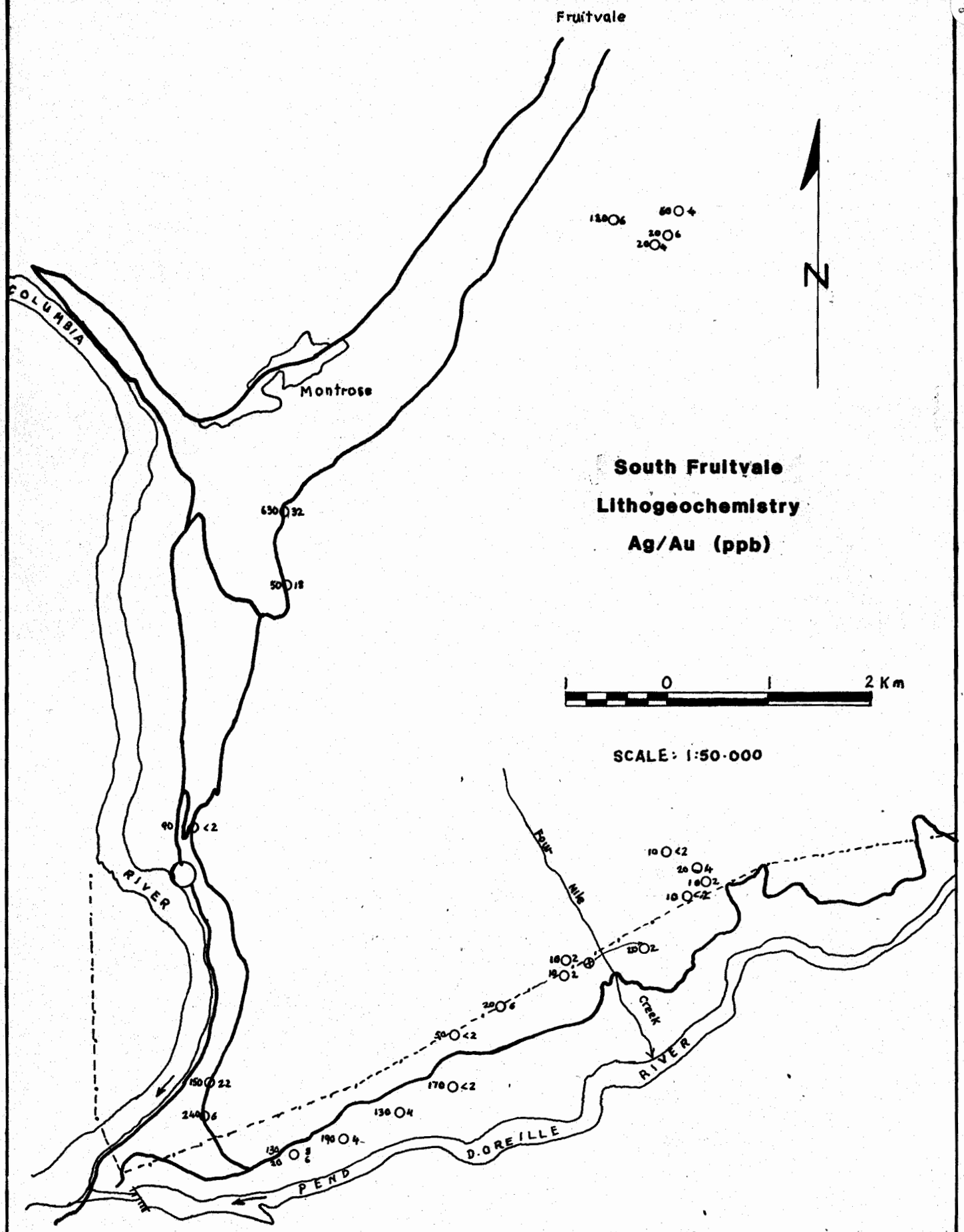


FIG. NO. 095-84-9e

away from the area covered by the survey.

6. GEOCHEMISTRY

Alteration identified as significant in extent and intensity was examined in greater detail, both lithogeochemically and geochemically. Three soil grids were established in areas of interest. Samples were collected at 20 meter intervals and analyzed for 26 element ICP.

King George grid (Figures 3a,b,c,d) was established on a zone of silicification. Minor quartz veining with Pb, Zn mineralization was found in the King George Park in about a 2 meter deep shaft. Assays of this material gave the following results: 56,000ppb Ag, 6ppb Au, 5,100ppm Pb, 72ppm Zn 340ppm Cu. Soil sample values were generally found to be background or slightly above background with occasional spot highs.

The Ace grid (Figures 4a,b,c,d) was established to test for anomalies in a zone of highly silicified and albitized volcanics at the headwaters of the East Tillicum Creek. Soil values were of low background level with only a few spot highs.

Zinc high

The Gus grid (Figures 6a,b,c,d) consisting of 6 lines and 86 samples is the largest of the three grids established. It is located near the centre of the ET zone. The grid is located in an area of high alteration. Strong propylitization and silicification were sampled for lithogeochemistry. During this sampling, several areas of minor quartz veining were discovered. In general, the soil samples gave low values with few spot highs (the most notable of which had 1530ppb Au, but overburden thickness is variable.

7. RECOMMENDATIONS

7.1 Swift Claims

The area covered by the Swift claims (64 units) should be investigated in more detail even though preliminary soil grids provided only sporadic Au highs. The Swift claims encompassing the ET zone cover an area of about 13 square kilometers which means that only the minutest area has been tested by the Gus grid. Most of this area covers well altered rock with mineralized quartz veinlets containing some encouraging values. The alteration straddles a contact between an intrusive Nelson granodiorite and Elise volcanics, and is well outlined by a magnetic high on government aeromag maps. Recommended work in this area would be detailed soil grids covering areas of high alteration or a reconnaissance type grid covering most of the alteration with detailed soil grids as follow-up of encouraging values. A magnetometer survey should also be undertaken to confirm the aeromag high and other unrecognized anomalies. Work should concentrate on establishing the possibility of stockwork type precious metal

mineralization related to the granodiorite-volcanics contact. Soil geochemistry is also recommended for the area just north of the Swift 2 and 3 claims as similar alteration to that found in the ET zone was noted during staking of the Swift claims.

7.2 Doubt Claims

The Doubt claims (15 units) were staked on the basis of unusual alteration and elevated Au values in rock chip lithogeochemistry. They should be investigated by a reconnaissance type soil grid and some prospecting. A geophysical survey is not recommended at this time as the steep terrain and dense second growth vegetation would make this difficult. If the above work is encouraging, geophysics should be attempted.

8. CONCLUSIONS

Discoveries during the Rossland survey have resulted in the staking of two groups claims. The Doubt claims, were staked on the basis of a high degree of propylitic (??) and argillic (??) alteration. The Swift claims cover an area of(??) argillic, silicic,and (??) propylitic alteration, and border the Ace and Gus claims which contain mineralized quartz veinlets. The quartz veinlets reach values of up to 995ppb Au, and 81ppm Ag respectively.

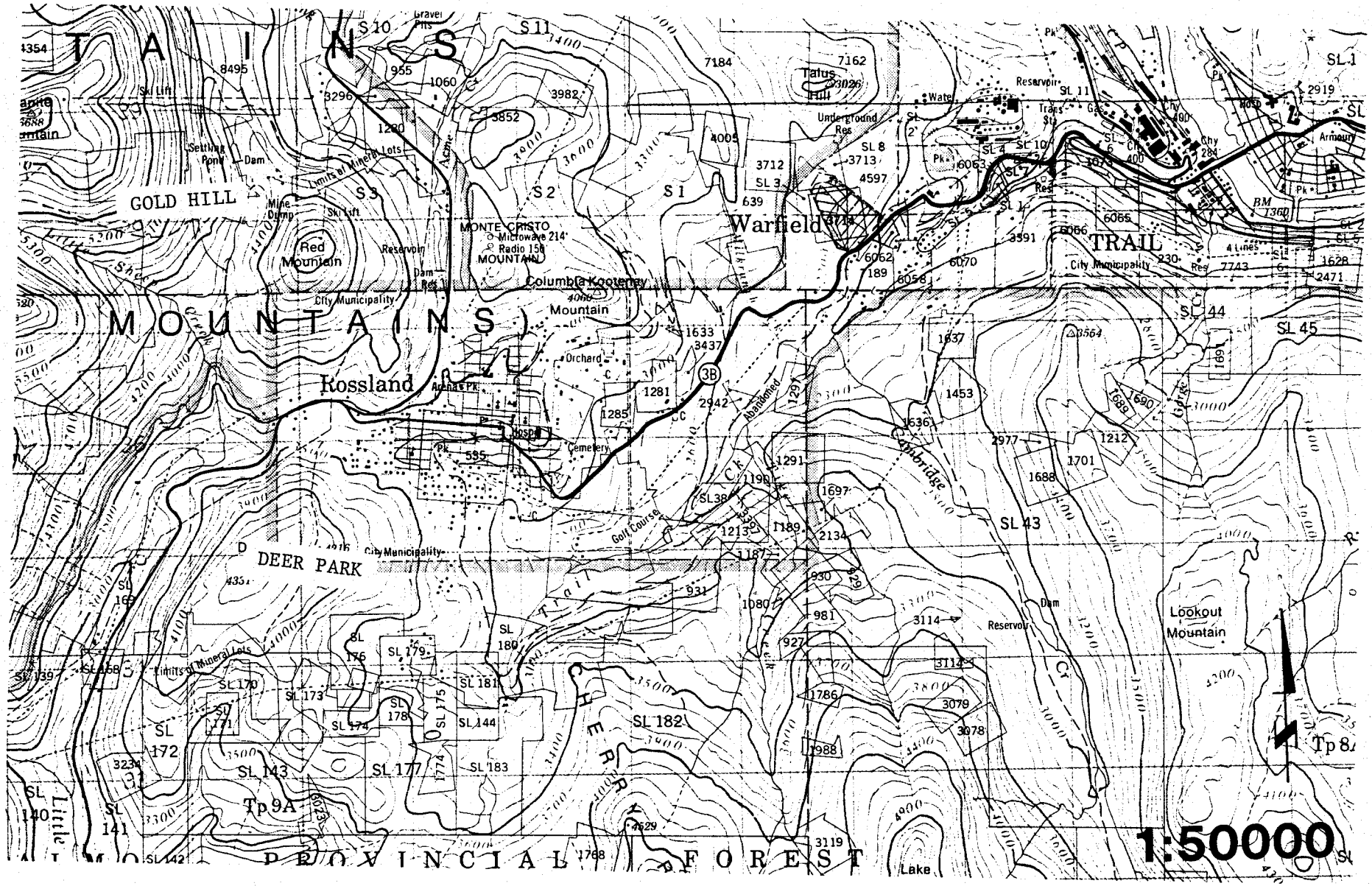
APPENDIX A:

PROPERTY EXAMINATIONS

CARRIED OUT DURING

ROSSLAND REGIONAL

1984



DEER PARK GOLDHILL 82F3

Expl. 257/84

Date: August 28, 1984

To: J.L. Hardy

Copies: File

From: L. Uher

Deer Park Crown Grant, 82F/4W

PROPERTY: Deer Park COMMODITIES: Au, Ag

MINING DIVISION: Trail NTS: 82F/4W

SUMMARY

Mineralogy of actinolite, spessartite and magnetite indicates contact metamorphic deposit. This along with limited alteration halo, points to a small sized deposit, possibly mined out.

LOCATION:

3 km SW of Rossland, on the east side of Deer Park Hill.

ACCESS:

5 km south of Rossland along highway 22, then via about 2 km of old logging road.

PHYSIOGRAPHY:

The claim is located on the east slope of Deer Park Hill at an elevation of about 4200 feet. The topography is gently to moderately steep, and lightly forested with cedar and fir.

OWNERSHIP:

Unknown

CLAIMS:

Deer Park CGC

REGIONAL GEOLOGY:

Regional geology consists of a Carboniferous Mount Roberts Formation - dominantly sedimentary sequence, Jurassic Rossland Group volcanic -sedimentary sequence, cut by Jurassic Rossland Monzonite and Cretaceous Nelson intrusives, which are in turn cut by a series of Tertiary intrusives (Sheppard, Coryell).

REGIONAL STRUCTURE:

Most productive deposit in the camp (Le Roi) is spatially related to a contact of Rossland Monzonite where two west pointing prongs of the monzonite have been intruded by augite porphyry. Superimposed on this are three major fracture systems, most important of which is an east-west vein set. A north-fracture set is occupied by lamprophyre dikes.

PROPERTY GEOLOGY:

DEPOSIT TYPE: Contact Metamorphic - Skarn (?)

HOST ROCKS: Lower Jurassic Rossland Formation augite porphyry, massive andesite-basalt (?), and Lower Cretaceous (?) Rossland Monzonite. Alteration consists of light silicification and kaolinitization. Contact metamorphic minerals include tremolite, spessartite and magnetite.

MINERALOGY:

ORE MINERALOGY: Po, Py, Mag, Cpy

DEPOSIT MORPHOLOGY/GRADES:
Mineralization is of two types. Most common is massive pyrrhotite, pyrite, magnetite and chalcopyrite. Fibrous green actinolite and spessartite are associated with the ore. Much less common is quartzose ore intruding the massive ore. Contains mostly pyrite, arsenopyrite, molybdenite and calcite. Grades and production figures not available.

ORE CONTROLS: Rossland Monzonite contact with the Rossland Volcanic Group.

DISCUSSION: The mineralogy of actinolite, spessartite, magnetite and the lack of any vein structure, indicate that the deposit is of contact metamorphic type. About 700 feet of underground workings have been recorded, this agrees well with the amount of dump material. At the time of visit all underground workings were collapsed. All samples were therefore taken off the dumps. No mineralization was seen in place on surface. Most ore is reported to have been extracted from a depth of a 100 feet and deeper. Alteration appears to be limited to the immediate vicinity of the Deer Park Claim. The limited alteration and apparent contact metamorphic type mineralization indicates a small size deposit, possibly mined out.

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Mindep File, ID #01067, Page 1536.

TABLE SAMPLE DESCRIPTION AND RESULTS, THE DEER PARK PROPERTY

DP - 1: Grab from dump - saccharoidal quartz, Py, Mo.

DP - 2: High grade grab from dump - Po, Py, Cpy, Py and Cpy in fractures.

DP - 3: Actinolite rock, fibres to 5cm, grab from dump - Po, Cpy.

DP - 4: Unmineralized blackish green rock with small actinolite fibres.

LR - 229 - 84: Biotite-rich augite porphyry.

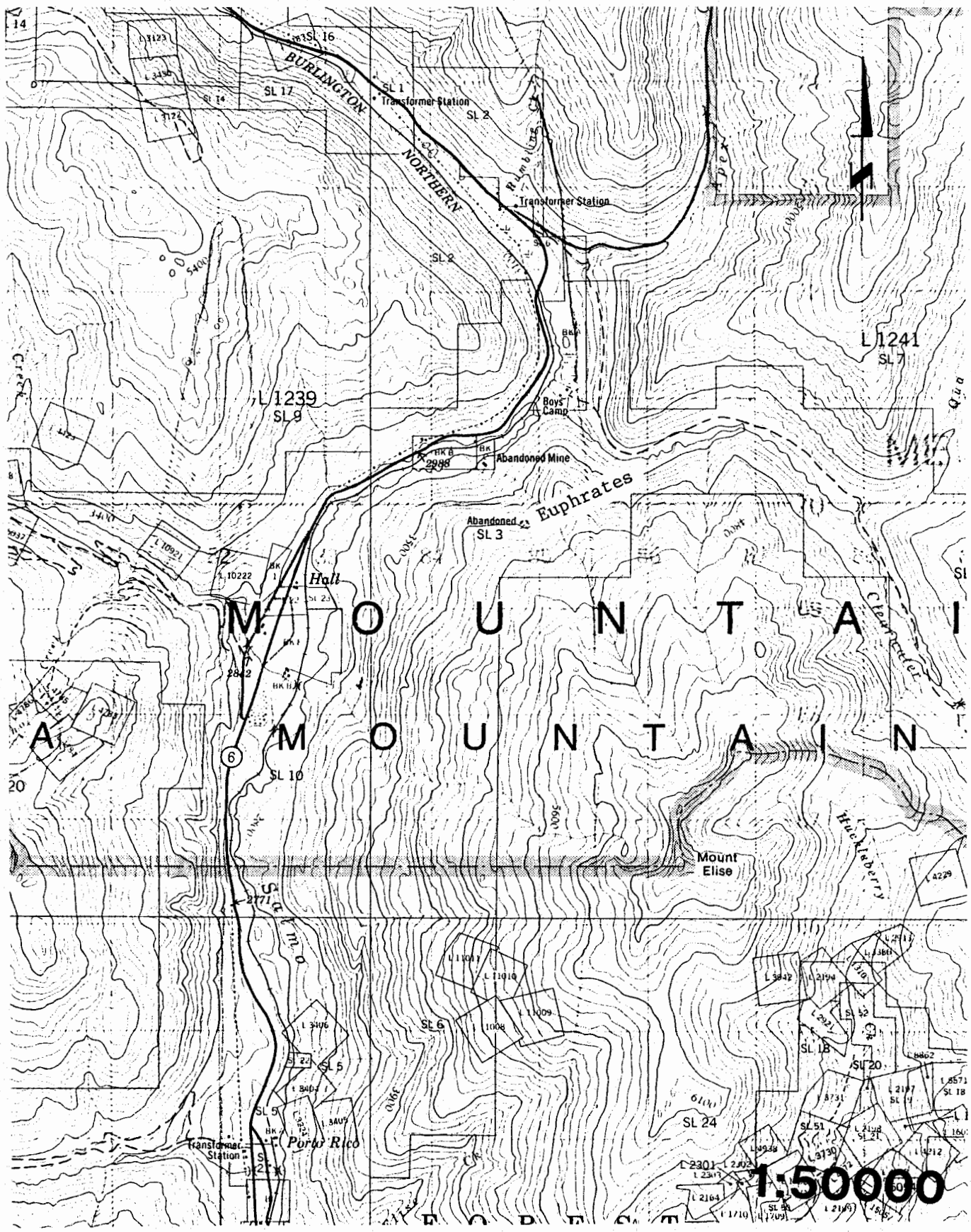
REPORT VALUES IN PPM	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
DP1	73	49	29	63	0	120	52	12	3	0	99.9	18
DP2	70	20	14	165	31	310	216	12	5	0	91.8	1170
DP3	240	6	41	98	722	46	31	17	7	0	523.7	60
DP4	125	463	141	9	627	90	40	8	1	0	135.6	20

AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
14.6	1270	6030	12	19	2080	.0	73	353	137000	128	1750
61.6	2490	1920	23	136	2540	7.7	200	9660	337000	97	3100
3.0	1940	2070	15	20	4420	.0	64	604	188000	62	2990
5.3	1570	153	14	8	4520	.5	9	163	37400	489	2460

BA	SE	AU-PPB
52	0	570
81	0	1410
53	0	125
48	0	61

	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb
229	50.7	2.32	4.84	.884	2600		20	23	85		50	700

82F6



EUPHRATES PROPERTY

MINERAL DEPOSIT EXAMINATION SUMMARY

PROPERTY: Euphrates
MINING DIVISION: Nelson
COMMODITIES: Au, Ag
NTS: 82F 6E

SUMMARY:

More research is warranted as the strike length of the mineralized system exceeds 2500m. This is particularly true if the schistose wall rocks carry any significant values. This could make a minerable width of up to 10m.

LOCATION:

18 km south of Nelson, on the west slope of Mount Elise.

ACCESS:

Via Highway 6 south, then a low grade mining road across the Salmo river for about 500m.

PHYSIOGRAPHY:

The claim is located on the west slope of Mount Elise at elevations ranging from 3000 ft to 5500 ft. Slopes are steep, in places heavily forested with cedar, fir and popular. Undergrowth is usually heavy.

OWNERSHIP:

Bob Borden (?), Nelson, B.C. 352-6815

CLAIMS:TRAM & EUPHRATES

REGIONAL GEOLOGY:

Elise Group volcanics which consist of andesites, tuffs and coarse grained augite porphyries. The series is lightly schistose, except near quartz veins, where the volcanics are highly schistose.

PROPERTY GEOLOGY:

DEPOSIT TYPE: Vein, Schistose Fault

HOST ROCKS:

Highly schistose (paper schists) andesites and augite porphyries of the Elise volcanics. Alteration is restricted to silicification of wall rocks and confined to at most 10 m, along the quartz veins.

MINERALIZATION

ORE MINEROLOGY: Py, AsPy, Cpy, Ga, Sph

DEPOSIT MORPHOLOGY/GRADES:

The deposit consists of quartz lenses, bunches, stringers and veins in poorly defined shear zones, conformable with schistosity. Mineralogy consists of highly disseminated Py, Aspy, Cpy, Ga & Sph. Grades of 0.04 to 0.98 oz Au/ton over 3 to 18 inches have been reported.

ORE CONTROLS:

Fracture or fault controlled system, quartz veins trending 330^{o} to 350^{o} with dips of about 70^{o} northeast.

DISCUSSION

A grid (probably geophysical) had been established on the property during July 1984 by unknown party. 17 samples were taken, 4 for lithogeochemistry as rock type and alteration closely resemble those of Hellroaring Creek zone. The strike length of the shear zone is impressive, at least 2500 m, ranging in elevation from 3000 to 5500 ft. Several trenches have been recently cleaned out, making good sampling possible (for location of samples see enclosed diagram). At least three adits exist on the property, however one is totally collapsed, and one is flooded. The main adit, the EL TEE (4000 ft long) is partly flooded and bad air is reported by COCHRANE (1975).

If E series samples have encouraging values, more research may be warranted, particularly if the schistose material also carries higher gold values (0.01 to 0.087 oz Au/ton have been reported).

BIBLIOGRAPHY

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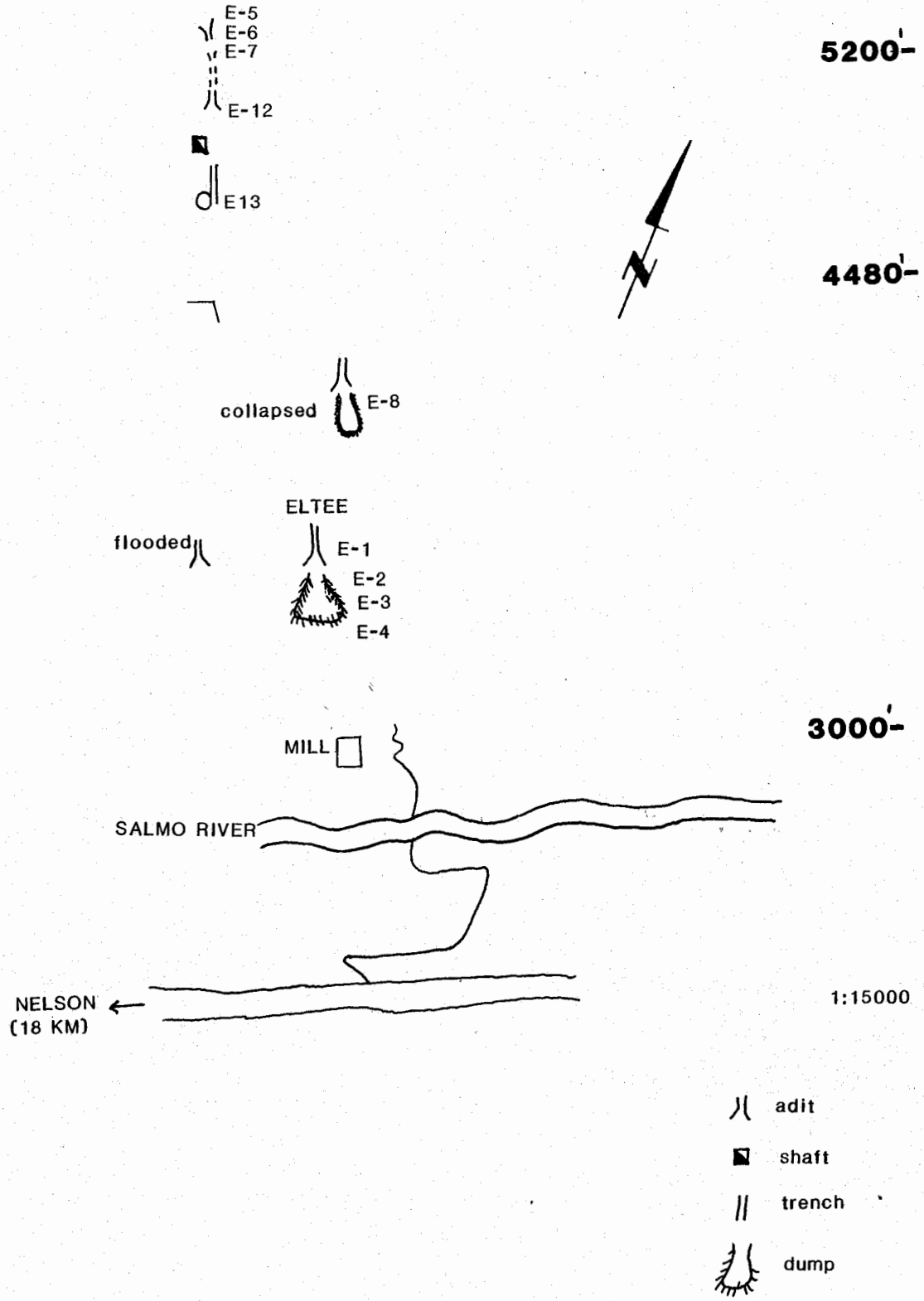
Ass Rep 5721 (1975) Cochrane Cons. Ltd.
Ass Rep 6139 (1976) Cochrane Cons. Ltd.



EUPHRATES SAMPLE LOCATION

EUPHRATES SAMPLE DESCRIPTION

E-1 Quartz vein at entrance to the EL TEE, CHIP across 10 cm. Vein strikes 150°, DIP 48°E, is white, massive, with minor rust.

E-2 Quartz grab from dump. Sulphides include disseminated Py, Cpy, and large crystals (to 1 cm) of ASPY.

E-3 Light greenish schistose rock on dump. Fine grained with up to 1% Py.

E-4 Siliceous pinkish weathering rock on dump. Light greenish grey on fresh surface, is similar to alteration at Hell-roaring Creek.

E-5 Schistose fine grained rock with quartz veinlets, lenses, and bunches throughout. Chip across 1.5m Minor disseminated Py.

E-6 As above, continuation of chip across 2m.

E-7 As above, continuation of chip across 1.5m.

E-13 Shipping ore(?) on side of dump of 30m long trench at an elevation of 5300 ft. Minor Py, Ga, Sph, ASPY in massive quartz.

E-9 Rusty paper schists, intensely weathered, quartz veinlets throughout. Chip across 2m.

E-10 Chip over 1m of silicified schist with quartz veinlets and stringers being about 50% of sample. Py disseminated in schists only.

E-11 As above, continuation of chip across 2m.

E-12 Chip of massive white quartz vein in slightly schisty rock.

E-8 Grab sample of quartz at collapsed adit. Minor Py, Ga.

VALUES IN PPM	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
E1	79	1	21	7	49	609	13	5	1	18	3.7	130
E2	1270	3	314	11	725	12	29	152	4	0	10.5	33
E3	921	3	131	19	1260	11	4	183	5	0	40.0	191
E4	1500	3	217	47	760	5	7	239	2	0	22.7	61
E5	703	3	175	11	630	281	4	26	5	0	7.9	197
E6	1220	3	170	11	999	25	6	24	5	2	11.1	230
E7	1220	2	219	13	1110	74	7	65	7	11	11.4	266
E8	344	4	112	9	326	12300	346	49	6	5	5.3	4110
E9	1610	3	159	20	1120	102	7	20	7	8	10.7	103
E10	889	3	186	14	943	66	18	188	6	3	12.4	81
E11	1060	2	142	10	702	27	6	76	5	16	5.8	99
E12	543	1	53	6	124	35	4	136	3	14	4.6	84
E13	211	5	59	9	124	216000	1010	36	5	19	2.5	1860

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
E1	7.9	736	501	3	3	413	.8	3	56	7290	174	267
E2	.7	2320	26400	8	11	33600	5.1	18	12	50100	1050	11000
E3	1.9	22400	382	27	3	40700	1.2	22	20	49400	3850	13900
E4	.5	5600	694	13	5	48800	.5	39	92	70000	1990	29400
E5	4.7	3980	727	7	1	6210	1.7	9	8	28000	1640	1470
E6	1.8	7180	1010	11	3	3010	2.0	13	24	41600	1920	2650
E7	1.9	5350	852	10	2	14400	2.1	15	13	42900	2120	1980
E8	249.4	2090	1920	8	11	5100	40.1	10	425	54300	943	1460
E9	2.7	5950	2490	12	4	2080	.0	20	12	64700	1660	927
E10	1.6	5910	10400	11	3	28400	.0	17	6	47900	1590	8000
E11	.9	2340	1840	6	3	11200	.0	10	3	33700	931	2260
E12	1.3	1300	486	3	0	27900	.7	4	5	13700	458	2190
E13	966.7	705	511	6	24	1700	30.3	3	902	9320	256	496

VALUES IN PPM	BA	SE	AU-PPB
E1	7	0	2200
E2	28	0	2150
E3	57	0	38
E4	45	0	30
E5	28	0	180
E6	36	0	540
E7	35	0	380
E8	19	0	50000
E9	53	0	600
E10	27	0	500
E11	27	0	180
E12	13	0	380
E13	6	1	1700

SAMPLE NUMBER	AU G/TONNE
E-1	2.33
2	2.28
8	72.40
E-13	1.58

Expl. 272/84

August 31,1984

To: L. Uher

Copies: File

From: J.L. Hardy

Mineral Deposit Examination, Gold Hill, 82F/4W

PROPERTY: Gold Hill COMMODITIES: Au, Ag

MINING DIVISION: Trail NTS 82F/4W

SUMMARY:

8m thickness of semi-massive to massive pyrrhotite mineralization; large alteration halo may warrant further investigation, but samples with only disseminated mineralization (GH-11 and 10) do not have encouraging values.

LOCATION: 3km NW of Rossland on the east slope of a tributary of West Little Sheep Creek.

ACCESS: The claim is located on the east slope of Granite Mountain about 1200m west of the summit of Red Mountain. Slopes of Granite Mountain are generally steep and lightly forested with cedar and fir.

OWNERSHIP: Unknown.

CLAIMS: Gold Hill Crown grants.

REGIONAL GEOLOGY:

Regional geology consists of a Carboniferous Mount Roberts Formation, dominantly sedimentary sequence, Jurassic Rossland group volcanic sedimentary sequence, cut by Jurassic Rossland Monzonite and Cretaceous Nelson intrusives, which are in turn cut by a series of Tertiary intrusives (Sheppard, Coryell).

REGIONAL STRUCTURE:

Most productive area in the camp (Le Roi) is spatially related to a contact of Rossland Monzonite where two west pointing prongs of the Monzonite have been intruded by augite porphyry. Superimposed on this are three major fracture systems, most important of which is an east-west vein set. A north-south fracture set is occupied by lamprophyre dikes.

PROPERTY GEOLOGY:

DEPOSIT TYPE: Contact Metamorphic (?)

HOST ROCKS: Black argillites of the Carboniferous Mount Roberts Formation and syenite porphyry (pulaskite). Alteration mainly silicification, is widespread and possibly continuous onto and from Red Mountain.

MINERALIZATION:

ORE MINERALOGY: Py, Cpy

DEPOSIT MORPHOLOGY/GRADES:

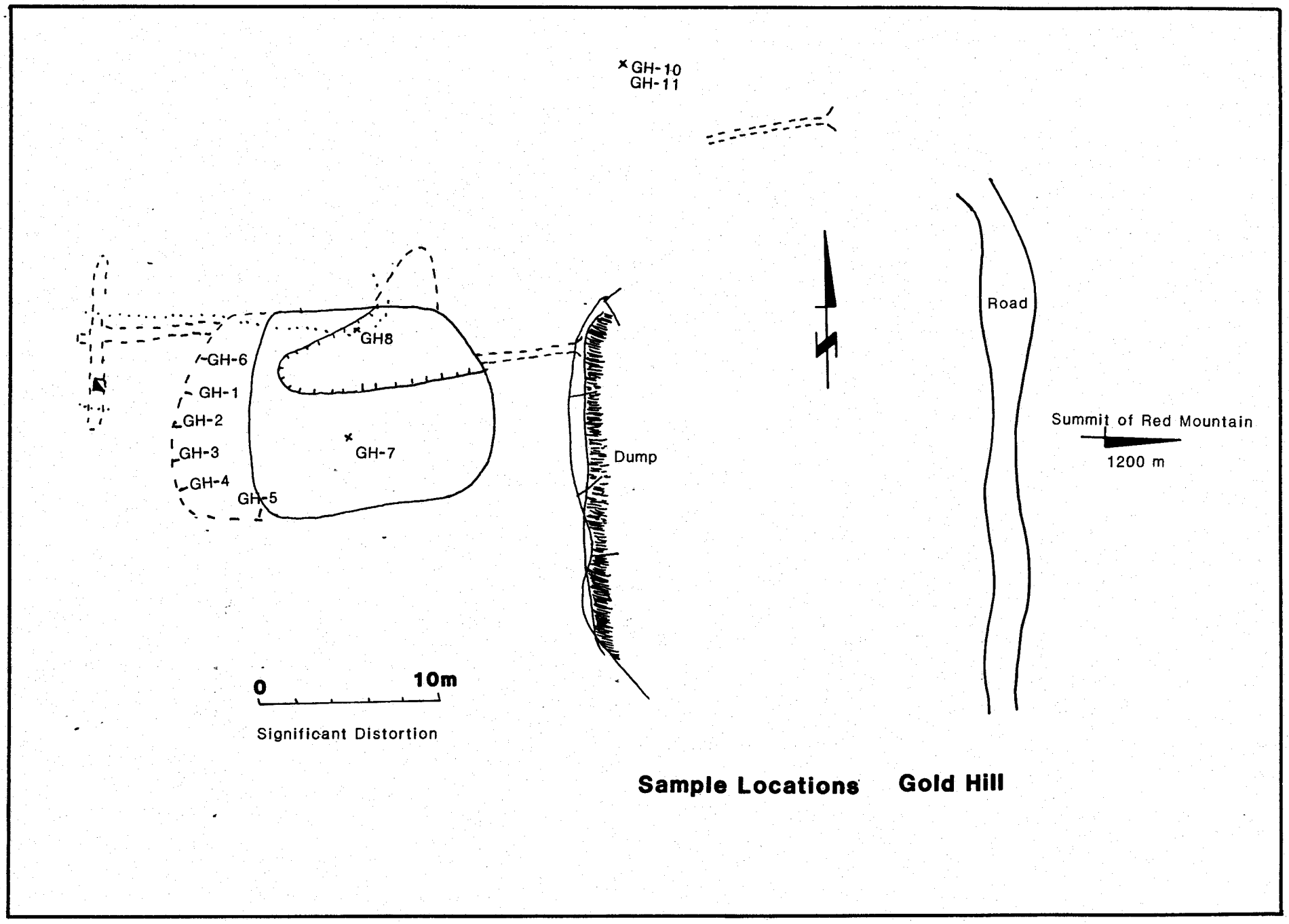
Mineralization consists of disseminated to massive pyrrhotite, pyrite and minor chalcopyrite. The most massive ore is either in contact with or very near the syenite porphyry. The massive nature of the ore may persist up to 8m away from the contact (see figure 2). Disseminated pyrrhotite may be found in the blackish silicified Mount Roberts argillites for a distance of up to 50m from the porphyry.

ORE CONTROLS: Contact of syenite porphyry and Mount Roberts argillites.

DISCUSSION:

Mineralization appears to be related to the emplacement of the syenite porphyry. If this is the case, then Gold Hill is not related, at least in age, to the typical Rossland Camp mineralization.

The major working of this property is a glory hole about 40m X 20m X 30m deep. Access into the hole is difficult. The bottom of the hole is littered with large boulders (1m X 1m X 2m) of high grade mineralization. It is difficult to chip off any wall rock without massive ore semi-massive mineralization. Samples G11-10, were taken at least 50m from any known intrusion and exhibit only minor disseminated pyrrhotite. This type of rock is very common on the property.



Sample Locations Gold Hill

Mineral Deposit Examination - Gold Hill, 82F/4W

DESCRIPTION OF SAMPLES TAKEN FROM THE PROPERTY

GH-1, 2, 3, 4, 5, 9 - Continuous chip across west wall of glory hole. Each sample is about 2m long. For location, see enclosed diagram. The west wall consists of highly silicified rock with semimassive to massive pyrrhotite mineralization.

CH-7 - Highest highgrade from leftover ore in middle of glory hole.

GH-8 - A sample of whitish intrusive rock - pulaskite (?)

GH-10 - Chip across 1 m of silicified rusty fine grained rock, with minor disseminated pyrrhotite, in a pit 200m north of glory hole.

GH-11 - Continuation of G-10, chip across 1m.

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
GH-1	1.9	4220	0	12	67	4670	.0	71	988	167000	1230	2710
GH-2	2.2	6050	3	15	51	4920	.0	78	1050	173000	1240	3530
GH-3	1.9	2540	10	13	46	3830	1.1	88	1230	190000	636	2190
GH-4	4.6	4670	29	16	126	5540	.1	84	1820	180000	872	3630
GH-5	1.8	4160	24	11	38	14900	.0	53	484	114000	607	2850
GH-6	2.5	8070	52	14	332	9670	.2	42	397	71400	317	1460
GH-7	3.0	9140	37	26	68	5250	1.4	251	2820	300000	936	5040
GH-8	1.3	2230	27	5	71	6000	.0	12	103	23300	802	1060
GH-9	2.8	7550	24	17	103	8010	.3	105	1360	183000	1030	4700
GH-10	1.6	2180	17	10	80	2580	.0	48	973	128000	381	1490
GH-11	1.2	2900	16	6	26	3070	.0	15	191	67600	1520	1940

VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
GH-1	108	13	183	64	848	0	0	26	0	0	206.2	68
GH-2	102	13	146	74	1120	0	3	29	4	0	167.1	52
GH-3	79	16	60	95	1190	3	3	26	5	0	146.6	58
GH-4	99	19	74	107	1670	73	9	29	8	14	137.8	60
GH-5	133	29	136	83	2650	8	3	31	6	21	214.7	38
GH-6	80	47	495	70	1540	21	3	55	6	21	43.9	25
GH-7	154	26	42	157	492	8	10	52	9	0	196.0	135
GH-8	102	4	222	12	499	22	3	23	5	32	23.0	17
GH-9	167	30	107	128	1140	10	8	39	7	8	279.7	47
GH-10	15	22	127	77	893	2	4	16	4	10	284.7	9
GH-11	38	9	247	19	1370	9	0	12	1	19	116.0	7

	BA	SE
GH-1	67	0
GH-2	63	0
GH-3	56	0
GH-4	57	0
GH-5	40	0
GH-6	33	0
GH-7	78	0
GH-8	27	0
GH-9	58	0
GH-10	33	0
GH-11	36	0

Au (g/tonne)
1.66
1.40
1.81
1.36
1.30
14.10
1.62
1.86
2.78
0.14
0.15

Expl. 249/84

August 22, 1984

To: J.L. Hardy

Copies: File

From: L. Uher

Property Examination, Grand Union, 82F/6W

PROPERTY: Grand Union COMMODITIES: Au, ag

MINING DIVISION: Nelson NTS: 82F/6W

SUMMARY:

Bulk tonnage potential seems quite limited as disseminated pyrite is common in Rossland volcanic rocks. 700,000 ton reserves seem overly optimistic.

LOCATION: 20km NW of Salmo, near the headwaters of Erie Creek.

ACCESS: Via about 18km of good dirt road from Highway 3B from an intersection, 4km west of Salmo.

PHYSIOGRAPHY:

The claim group is located on the north slope of Erie Creek, across from the Second Relief claim group. Slopes along Erie Creek are generally moderately steep to steep and in places heavily forested with cedar, fir and poplar.

OWNERSHIP: Homestead Resources Inc.

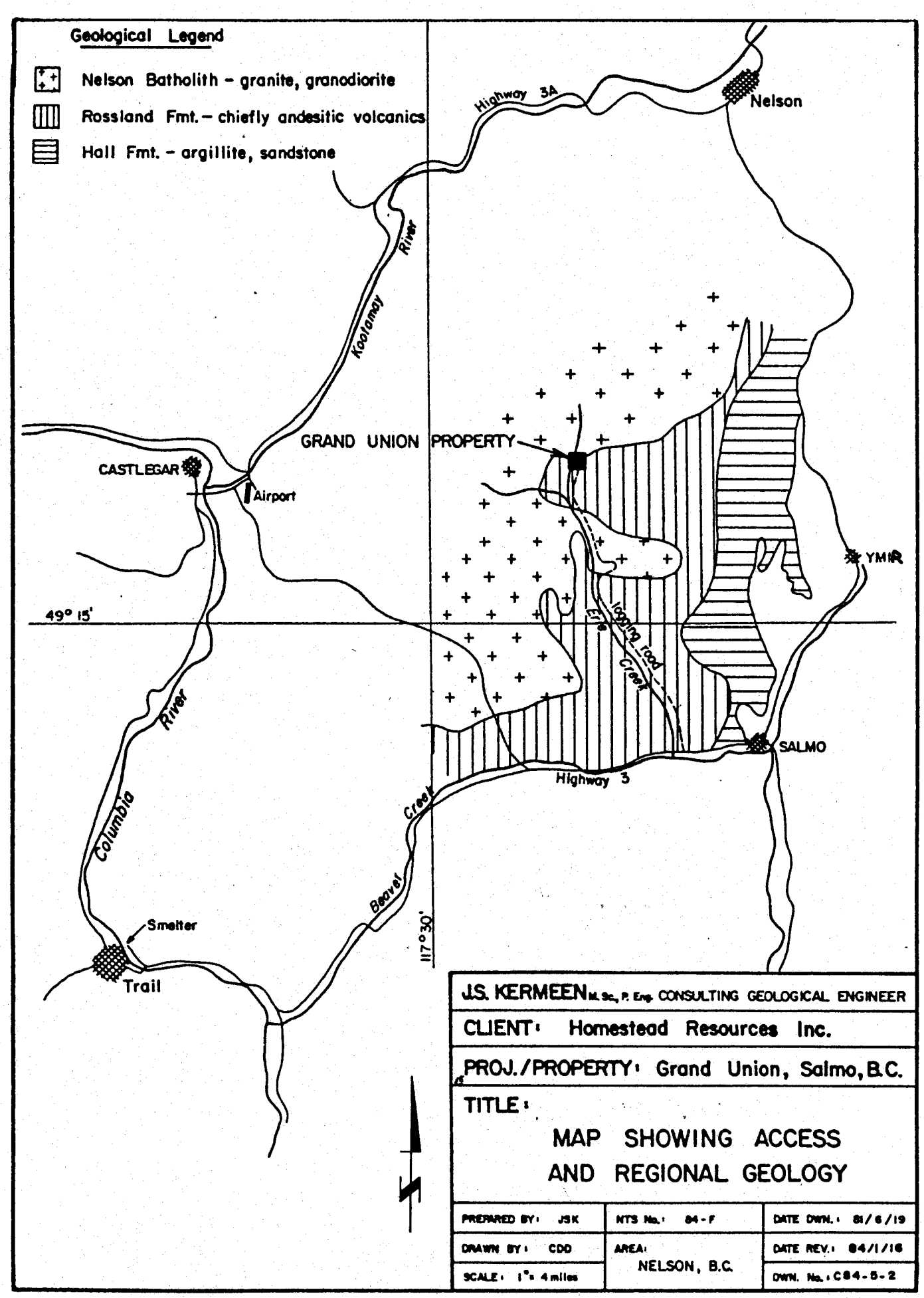
CLAIMS: Grand Union, Lil, Geez, Star Shine, Risk Fr, Peggy Fr, Lucy, Gus Fr, Eva Fr, Digit, Dolly, Rhodes Fr, Amos, Lee, Pitt, Winnie, Dale, Rand Fr.

REGIONAL GEOLOGY:

Lightly schisted volcanics, andesites, feldspar porphyry and argillites of the Lower Jurassic Rossland Formation occur as a synclinal structure within the Nelson Batholith.

PROPERTY GEOLOGY:

Deposit type: vein


Geological Legend
Nelson Batholith – granite, granodiorite
Rossland Fmt. – chiefly andesitic volcanics
Hall Fmt. – argillite, sandstone
Highway 3A
Nelson
Kootenay River
GRAND UNION PROPERTY
CASTLEGAR
Airport
YMIR
49° 15'
Erie
logging road
Creek
SALMO
Highway 3
Columbia River
Beaver Creek
Smelter
Trail
117° 30'
J.S. KERMEEN M. Sc., P. Eng. CONSULTING GEOLOGICAL ENGINEER
CLIENT: Homestead Resources Inc.
PROJ./PROPERTY: Grand Union, Salmo, B.C.
TITLE:
MAP SHOWING ACCESS AND REGIONAL GEOLOGY
PREPARED BY: JSK
NTS No.: 84-F
DATE DWN.: 81/6/19
DRAWN BY: CDD
AREA: NELSON, B.C.
DATE REV.: 84/1/16
SCALE: 1" = 4 miles
DWN. No.: C84-5-2

HOST ROCKS:

Slightly schistose massive andesites and feldspar porphyry of the Rossland Formation. Alteration is very minor, and is confined to occasional kaolinitization along some of the quartz veins and minor silicification of host rocks.

MINERALIZATION:

ORE MINERALOGY: Py, Cpy, Po

DEPOSIT MORPHOLOGY/GRADES:
Mineralization consists of disseminated pyrite, pyrrhotite and chalcopyrite in 2 main quartz veins, Rand and Inez (30-200cm thick); 29.3 tons of ore shipped by Homestead Resources in 1981 averaged 0.403 oz Au/ton.

ORE CONTROLS: Fracture controlled system, veins trending 55^{o} to 80^{o}.

DISCUSSION:

Property has been drilled, drilling completed on July 27, 1984. Estimate 600ft in 10 holes. Questionable job (holes 9 & 10 drilled 12 inches apart, down dip on a 100cm wide quartz vein). Quartz veins are massive, 30 to 200cm wide, usually bullish looking but, "minute rice" texture with 10-20% Py can be seen on dumps.

Bulk tonnage potential (Wierzbicki) seems quite limited as disseminated pyrite is very common in Rossland volcanics and is not necessarily indicative of proximity of mineralization.

The potential of this property is limited to two or more small high grade orebodies (Inez, Rand). Further exploration may uncover other veins, but 700,000 ton reserves seem grossly on the high side.

BIBLIOGRAPHY

KERMEEN, J.S., 1984: Geological Report on Grand Union Property

WIERZBICKI, R., 1981: Shell Canada Resources Ltd., Property Information Form

DESCRIPTION OF SAMPLES TAKEN FROM THE
GRAND UNION PROPERTY

		Cu	Pb	Zn	Au (ppb)
GU-1	Grab from dumps at Second Relief property. Mineralization consists of Cpy, Py, Po, Sph, disseminated and banded in country rock	1920	53	168	9.12
GU-2	Grab from creek adit dump. "Minute Rice" texture quartz with up to 50% pyrite.	110	47	50	100.50
GU-3	Quartz vein, about 100 cm wide, bullish looking, strk 080°, Dip 90°, at drill sites 00H9 and 10.	213	14	43	0.58
GU-4	A 50cm chip across south wall of above vein. Northwall not exposed.	134	14	93	0.17
GU-5	Quartz vein and silicified wallrock across about 60cm 20% sulphide Py, Cpy, As, Py. On unnumbered drill hole about 100m north of UG-4	1640	7	23	28.00
GU-6	High-grade grab from dump of 644 flooded shaft, 30m west of UG-5. Quartz is bullish. Disseminated Py, Po, Cpy in country rock.	1350	22	89	1.06
GU-7	Siliceous schistose white pyritized rock, chip across 50 cm. Outcrop SW of UG-6, many drill holes.	304	14	200	13.65
GU-8	Same location as above, siliceous greyish wall rock Py disseminated, chip over 2m.	565	11	344	1.38
GU-9	15 cm quartz vein from upper adit, strk 60°, Dip 45°N, no mineralization visible, rust common	1340	53	47	48.90
GU-10	Hanging wall and footwall of Gu-11. Weakly chloritized andesite.	179	21	171	0.39
GU-11	Quartz vein, about 10 cm-15 cm wide on road to upper adit, mineralization is pyrite, arseno-pyrite. Strk 550°, Dip 80°N.	608	11	15	2.20
LR-227-84	Blackish andesite, fine grained, quartzose texture, similar to Toad Mountain Kena property.				
LR-228-84	Feldspar porphyry, spars to 1cm long, matrix, deep grey, fine grained.				

Table 1: 26-element ICP results on samples from Grand Union, 82F/6W

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
UG-1	6.9	8610	246	20	48	4650	1.9	60	1920	183000	1980	3460
UG-2	26.7	1630	599	14	217	178	.0	308	110	182000	513	1360
UG-3	.8	11100	53	15	8	3420	.9	11	213	42400	2760	3720
UG-4	1.1	24200	0	21	8	16200	1.4	19	134	55700	7090	9240
UG-5	4.4	11700	49	20	135	624	.3	104	1640	146000	1950	3370
UG-6	1.5	17600	18	20	26	12800	.8	15	1350	75600	1830	7660
UG-7	2.2	4610	796	6	15	708	2.1	15	304	19100	2410	687
UG-8	1.8	23900	1	22	16	8130	4.2	16	565	84400	5260	7370
UG-9	31.2	15600	172	20	131	2340	.4	111	1340	119000	842	6410
UG-10	.9	23000	14	24	8	8690	2.7	23	179	57300	2640	13000
UG-11	1.0	6750	7	10	26	1130	.5	14	608	37800	1870	872

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
UG-1	208	7	44	24	157	53	2	33	5	0	21.4	168
UG-2	0	6	13	23	0	47	30	24	5	0	9.5	50
UG-3	534	16	74	10	422	14	1	21	2	10	27.7	43
UG-4	1440	3	1000	7	835	14	0	51	0	10	74.5	93
UG-5	225	9	56	15	187	7	4	30	5	0	23.0	23
UG-6	1070	4	80	9	337	22	3	34	3	3	43.6	89
UG-7	64	2	52	4	316	14	0	6	1	3	5.7	200
UG-8	902	4	504	5	849	11	0	49	0	3	43.5	344
UG-9	536	12	24	34	67	53	6	36	6	0	46.0	47
UG-10	1690	4	449	18	595	21	0	55	0	14	94.6	171
UG-11	171	4	49	12	396	11	1	11	3	0	11.3	15

(REPORT VALUES IN PPM)	BA	SE
UG-1	85	0
UG-2	52	0
UG-3	91	0
UG-4	220	0
UG-5	93	0
UG-6	55	0
UG-7	64	0
UG-8	102	0
UG-9	50	0
UG-10	66	0
UG-11	93	0

APPENDIX B:

ANALYTICAL RESULTS

ROSSLAND REGIONAL

1984

TML TERRAMIN RESEARCH LABS LTD.

Falconbridge Limited - Jenna Hardy

JOB # 94-091

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	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	1	54.3	3.46	1.78	.734	1020		48	-1	105		6	60		
2	2	59.9	3.26	2.61	.734	1030		47	7	118		4	50		
3	3	54.3	3.15	2.87	.801	1970		17	3	81		4	40		
4	4	60.3	3.81	1.88	.584	1150		19	2	91		8	80		
5	5	48.1	1.81	1.49	.901	710		115	-1	50		8	100		
6	7	64.0	.422	7.98	.117	1530		340	5100	72		6	56000		
7	9	59.0	.727	.915	.651	310		30	18	70		8	120		
8	11	61.4	1.87	1.47	.617	810		53	25	108		8	360		
9	13	50.9	4.33	.199	.917	160		91	2	70		12	50		
10	14	50.9	2.75	1.10	.784	570		72	-1	75		18	50		
1	15	65.5	2.82	4.29	.434	2520		200	-1	490		60	270		
2	16	58.6	3.81	1.94	.684	1990		45	3	103		28	280		
3	17	51.6	2.57	3.40	.751	1280		131	-1	52		10	40		
4	18	57.1	3.14	3.13	.767	1720		22	3	85		8	90		
5	19	67.6	3.05	4.75	.067	280		1	36	50		10	10		
6	20	66.7	4.21	1.36	.450	880		15	20	68		4	10		
7	21	48.6	2.72	1.58	.801	1190		62	-1	49		8	10		
8	22	50.1	3.34	1.84	.851	2280		84	-1	84		6	10		
9	23	55.0	3.67	3.66	1.02	2590		22	8	72		2	20		
20	24	52.4	3.01	.134	.801	100		3	2	70		6	20		

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JOB # 84-115

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	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	LR-25-84 BEAVER LKS	44.9	1.85	1.30	1.28	1970		19	3	155		-2	40		
2	26 "	57.5	2.97	3.90	.317	1110		15	4	144		-2	50		
3	27 VIOLIN LK	53.3	3.25	3.42	.600	1080		108	28	84		4	230		
4	28 "	62.7	3.75	2.23	.534	1080		56	4	73		12	100		
5	29 "	51.6	3.19	1.98	.901	1060		4	13	118		2	130		
6	30 EAST GRID LINE RD	51.3	3.71	.888	.751	460		56	-1	100		-2	100		
7	31 WEST MAP SHEET ROUTELINE RD	51.3	2.76	1.28	.550	730		74	-1	79		-2	70		
8	32 "	52.8	2.83	2.68	.634	1260		75	-1	69		2	50		
9	33 "	50.5	2.33	.598	.751	250		64	-1	57		-2	10		
10	34 "	49.8	2.37	2.78	.634	1070		66	-1	58		-2	40		
1	35 "	50.1	3.37	3.02	.801	1080		30	-1	71		-2	20		
2	36 "	47.1	3.69	1.77	.567	460		125	-1	60		-2	70		
3	37 EAST MAP SHEET POWER LINE RD	49.2	4.30	.836	.584	460		58	6	75		-2	40		
4	38 "	47.7	2.57	1.99	.751	2150		80	3	77		2	60		
15	39 "	43.4	2.32	.974	.834	380		179	-1	77		-2	80		
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TERRAMIN RESEARCH LABS LTD.

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JOB # 84-125

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	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	LR-40-84	56.6	3.40	.422	.517	130		147	2	22		1760	100		
2	41 POWER LINE RD	55.8	2.86	1.30	.701	600		68	3	85		-2	50		
3	42 "	45.3	2.32	1.33	.717	650		133	1	78		2	220		
4	43 "	60.3	3.15	2.36	.500	1420		37	-1	63		-2	100		
5	44 EAST CHANNEL	55.4	5.93	1.52	.784	360		34	75	72		-2	160		
6	45 "	53.7	5.20	2.22	.584	1420		106	2	83		-2	40		
7	46	44.5	3.76	1.90	.484	660		183	-1	82		2	90		
8	47	53.7	2.13	3.90	.667	1390		93	-1	69		-2	40		
9	48	49.2	3.98	3.00	.717	1120		98	-1	67		-2	50		
10	49	46.8	2.31	.904	.617	780		107	2	69		6	70		
1	50	53.1	4.30	1.81	.701	640		100	-1	66		-2	20		
2	51	53.3	2.90	2.02	.667	1240		63	-1	71		2	40		
3	52	51.6	2.39	2.22	.734	1360		150	3	72		2	70		
4	53	59.0	4.12	2.10	.600	910		24	1	83		2	50		
5	54	57.5	4.07	1.77	.651	1050		17	4	93		6	90		
6	55	50.7	3.34	2.31	.667	780		165	5	74		6	70		
7	56	51.6	1.70	1.94	.634	1060		84	-1	68		-2	40		
8	57	51.8	3.44	3.05	1.13	1930		119	8	64		-2	60		
9	58	54.3	3.99	3.18	.817	1220		86	2	59		-2	50		
20	59	54.1	3.22	4.53	.684	1600		48	4	85		-2	60		

TERRAMIN RESEARCH LABS LTD.

JOB 84-125

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au	Ag		
21	LR-60-84	56.5	2.60	2.48	.751	1100		32	3	94		-2	70		
2	61	59.0	3.15	2.53	.550	1120		49	2	64		4	50		
3	62	52.8	2.63	1.94	.684	1020		53	-1	68		-2	20		
4	63	58.2	3.75	2.29	.617	950		32	6	90		4	80		
5	64 GRAB	69.7	2.80	6.80	.200	1430		2	5	21		-2	10		
6	65 GRAB	71.9	3.28	5.69	.183	1180		4	18	44		-2	10		
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TERRAMIN RESEARCH LABS LTD.

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JOB # 84-138
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	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	LR - 66 A - 84	47.7	2.88	1.71	1.18	1870		45	4	63		4	60	mz altered near Georgia	
2	66	56.5	1.48	3.53	.517	860		45	4	110		4	100		
3	67	60.1	5.65	.566	.550	380		25	2	86		4	130		
4	68	51.3	2.55	1.57	.784	1410		144	-1	73		-2	80		
5	69	62.2	4.06	.353	.534	330		31	1	67		2	70		
6	70	53.7	4.25	1.87	1.05	2810		53	4	92		2	100		
7	71	49.0	3.36	1.24	1.23	660		116	-1	77		4	60		
8	72	52.8	3.06	2.39	.834	1030		61	-1	78		2	70		
9	73	52.4	2.02	.587	1.45	530		90	4	86		-2	110		
10	74	77.2	2.26	.143	.500	740		104	-1	97		-2	30		
1	75	53.9	3.18	2.12	.684	880		48	2	91		2	110		
2	76	61.6	3.99	1.25	.500	710		19	-1	73		4	230		
3	77	58.6	4.31	1.07	.567	600		22	1	64		2	70		
4	78	58.2	3.65	2.31	.600	890		59	5	76		-2	210		
5	79	54.5	2.80	1.41	.667	660		35	-1	44		-2	70		
6	80	49.8	3.14	2.60	.684	650		107	-1	36		136	90	[illegible]	
7	81	57.5	3.67	2.96	.751	800		530	-1	50		376	320	[illegible]	
8	82	50.9	4.12	1.94	.784	730		77	2	97		-2	30		
9	83	59.9	3.64	2.24	.500	1010		26	107	66		4	90	unaltered [illegible]	
20	84	47.3	2.49	2.14	.634	640		125	2	73		2	190	silicified unit?	

TERRAMIN RESEARCH LABS LTD.

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	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
21	LR - 86 - 84	53.7	3.45	1.27	.784	620		54	3	83		4	60		
2	87	50.3	3.33	1.88	1.28	1990		43	4	67		-2	30		
3	88	54.1	2.95	2.30	.684	730		64	2	54		-2	40		
4	89	49.4	2.75	1.74	.667	1090		71	3	80		-2	50		
5	90	54.4	4.11	2.74	.717	1190		43	2	69		-2	50		
6	91	59.7	1.94	2.24	.500	980		18	2	65		-2	40		
7	92	57.3	2.98	2.27	.717	1260		58	1	77		-2	50		
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	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn	Au ppb	Ag ppb			
1	LR -85-84	50.7	3.09	2.07	.667	1310		26	3	77	14	90			
2	93	48.8	3.34	1.78	.884	1170		107	2	73	4	40			
3	94	51.1	3.83	1.55	.901	1070		71	2	72	2	40			
4	95	49.6	2.28	1.28	.967	680		58	2	69	12	50			
5	96	48.8	2.86	2.27	.851	910		94	-1	99	14	60			
6	97	51.1	3.53	2.65	.834	1610		70	-1	79	10	70			
7	98	51.3	3.19	1.57	.734	870		57	1	66	10	40			
8	99	44.9	2.55	5.77	.767	950		1140	3	123	2560	3300	Toad Mt – HW)		core chips across zone
9	100	53.1	2.68	7.76	.450	1960		370	8	98	5680	2400	Toad Mt in Mo		
10	101	47.5	1.58	5.23	.717	1010		148	24	117	104	810	bottom of hole – alt.		carbonate?)
1	102	49.2	3.64	4.34	.651	1170		810	3	49	236	1190			
2	103	63.1	4.62	6.41	.350	1470		182	2	31	320	420			
3	104	63.5	.186	8.24	.434	1920		105	26	17	8240	6100			
4	105	53.9	2.70	8.30	.584	2010		80	43	61	440	720	= 104, 105, 101 alteration		
5	106	55.2	5.19	5.37	.550	1140		9	-1	57	132	60	FW in trench.		
6	107	49.4	3.30	2.39	.767	2050		150	-1	77	14	80			
7	108	59.9	3.48	2.11	.617	1350		40	6	49	8	100			
8	109	51.6	3.81	2.51	.717	1230		82	3	90	8	50			
9	110	60.3	.485	3.77	.567	920		17	3	32	110	20	Tillicum Road - siliceous sericite – HT – just off [illegible]		
20	111	53.5	3.81	2.4	.701	1410		110	-1	71	8	10			

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
21	LR-112-84	60.3	3.94	2.18	.550	1050		13	-1	77		-2	10		
2	113	53.1	3.29	3.30	.584	1510		62	8	80		-2	110		
3	114	59.7	3.28	4.21	.550	1750		20	25	73		10	30		
4	115	46.0	3.24	1.77	1.43	2290		49	6	68		-2	20		
5	116	66.7	5.74	2.40	.250	980		6	5	39		8	20		
6	117	47.1	4.19	.909	.851	910		159	2	97		10	100		
7	118	44.5	2.83	2.16	.717	990		168	-1	99		8	210		
8	119	57.	3.52	1.67	.734	1000		19	8	89		-2	80		
9	120	54.	3.44	1.90	.751	1120		15	7	97		18	90		
30	121	47.7	3.63	2.04	1.22	960		128	2	89		12	80		
1	122	47.5	2.40	2.83	.784	1380		187	3	70		8	140		
32	123	49.4	2.26	.559	.867	500		139	2	92		8	190		
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TERRAMIN RESEARCH LABS LTD.

Falconbridge Limited

Project 095

JOB # 84-158

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	LR-124-84	45.6	1.89	.153	.817	220		147	2	70		8	80		
2	125	50.1	3.80	1.30	.784	1050		31	-1	76		4	30		
3	126	48.8	2.43	1.59	1.08	1420		117	-1	34		6	120		
4	127	46.8	3.26	1.81	1.45	2140		41	7	64		2	200		
5	128	48.8	3.25	1.92	1.43	2210		39	2	66		2	20		
6	129	57.1	5.43	1.37	.584	1050		18	6	54		10	70		
7	130	56.7	2.21	3.65	.534	1620		37	3	85		-2	10		
8	131	59.3	4.37	2.83	.550	920		40	4	51		16	280		
9	132	52.0	4.38	1.96	.717	820		102	2	62		12	100		
10	133	51.1	2.33	2.84	.667	1060		57	7	93		4	180		
1	134	40.2	2.01	1.23	.667	600		59	2	68		6	100		
2	135	54.5	1.35	.446	.634	540		79	-1	81		6	190		
3	136	56.0	3.69	3.49	.667	1120		38	-1	78		8	80		
4	137	56.5	3.09	6.25	.701	1400		157	-1	61		4	190		
5	138	54.5	4.95	3.22	.567	1160		117	-1	64		4	60		
6	139	52.8	4.21	1.16	.751	530		52	4	85		6	120		
7	140	53.7	2.80	1.21	.867	370		93	-1	135		2	50		
8	141	44.5	3.28	1.48	.967	760		101	-1	90		8	130		
9	142	53.7	.931	6.19	.734	1970		51	156	94		60	1340		
20	143	46.4	2.04	4.75	.767	560		81	9	40		44	1160		

TERRAMIN RESEARCH LABS LTD.

JOB # 84-158

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
21	LR-144-84	50.5	2.60	3.76	.667	700		105	39	82		174	340		
2	145	48.8	2.64	3.43	.667	920		68	-1	49		6	80		
3	146	49.2	4.02	2.51	.817	1150		8	7	64		32	90		
4	147	50.1	2.40	3.78	.784	940		161	-1	32		8	140		
5	148	53.5	4.69	4.47	.584	2380		100	-1	39		8	70		
6	149	70.4	4.80	3.10	.017	110		3	16	28		16	130		
7	150	49.2	3.64	1.18	.717	560		270	-1	80		-2	130		
8	151	70.6	4.30	3.95	.033	100		4	32	30		22	90		
9	152	69.5	3.81	1.21	.033	130		11	10	10		4	30		
30	153	44.7	.991	4.08	.734	810		87	3	75		8	220		
1	154	53.5	4.18	2.30	.817	1160		41	-1	77		8	30		
2	155	48.3	.627	4.72	.701	1120		50	5	88		8	170		
33	156	48.6	3.42	1.84	1.40	1990		44	9	62		10	40		
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TERRAMIN RESEARCH LABS LTD.

Falconbridge Limited

Proje[illegible]095

JOB # 84-165

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au	Ag		
1	LR 157 84	49.0	3.28	2.81	.834	840		183	-1	60		2	140		
2	158	49.6	4.43	2.46	.867	740		174	-1	45		6	250		
3	159	55.6	2.04	2.06	.550	1040		270	15	46		4	180		
4	160 A	50.3	3.71	5.28	.684	1440		155	-1	65		-2	150		
5	161 A	57.5	4.89	6.68	.350	1320		33	-1	17		-2	60		
6	162 A	50.7	6.04	1.51	.817	520		50	-1	94		2	10		
7	163 SK	54.8	3.02	2.01	.767	940		42	-1	70		-2	10		
8	164	51.6	5.37	.966	.851	560		38	-1	77		2	50		
9	165 A	52.8	5.37	2.63	.767	1620		46	2	89		2	40		
10	166	50.7	3.40	1.65	.817	880		69	-1	78		-2	10		
1	167	49.2	3.21	2.23	.901	1160		84	-1	80		-2	10		
2	168	52.4	3.91	2.90	.817	1070		55	-1	71		-2	20		
3	169	52.4	3.99	3.06	.751	1410		111	3	85		6	80		
4	170	46.2	2.06	1.18	.751	400		86	-1	62		-2	70		
5	171	52.0	1.59	2.25	.701	970		114	5	98		2	150		
6	172	50.5	3.99	1.55	1.00	660		120	-1	76		-2	50		
7	173 A	55.2	5.73	3.65	.550	1150		54	14	87		2	60		
8	174	55.8	3.61	1.69	.684	850		34	6	110		-2	110		
9	175 D	60.1	3.76	2.02	.567	810		17	4	92		2	80		
20	176	54.5	3.17	1.76	.917	1130		33	5	97		-2	10		

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
21	LR 177 84	58.4	3.32	1.60	.817	710		31	3	100		4	70		
2	178	58.8	4.29	2.39	.550	1330		23	-1	76		2	10		
3	179	62.7	4.30	2.35	.517	1630		40	3	64		4	20		
4	180	46.8	1.91	2.41	.817	1600		32	3	68		-2	10		
5	181	59.3	2.75	4.04	.567	1000		9	1	48		2	10		
6	182	51.6	4.08	1.65	.851	980		37	-1	75		-2	10		
7	183	52.8	1.95	2.55	.550	1170		31	2	62		6	90		
8	184	47.5	3.29	1.93	1.50	2090		40	3	70		2	20		
9	185	59.5	4.26	2.45	.550	1360		17	-1	57		2	10		
30	186	61.2	5.68	1.51	.534	970		30	4	64		2	10		
1	187	61.0	4.84	2.96	.534	1310		44	-1	50		6	20		
2	188	60.1	2.17	2.51	.534	1260		30	-1	73		-2	50		
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JOB #84-177
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	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	LR 188 84	45.4	2.63	1.48	.667	790		72	3	60		4	60		
2	189	53.7	2.84	2.05	.801	710		74	6	66		6	20		
3	190	54.8	3.07	2.17	.801	810		85	-1	54		4	20		
4	191	55.2	3.94	1.46	.734	900		61	2	50		6	120		
5	192	51.8	3.22	4.07	.734	1710		530	7	55		32	630		
6	193	48.6	2.18	1.61	1.13	1230		48	8	53		18	50		
7	194	46.4	2.29	1.90	1.30	2200		57	10	74		-2	90		
8	195	49.6	3.13	1.93	.684	700		67	-1	72		-2	170		
9	196	52.8	2.66	1.71	.717	1090		55	26	73		4	130		
10	197	58.6	2.53	3.22	.567	1390		34	8	124		4	190		
1	198	59.9	2.99	2.57	.600	1140		52	4	91		8	130		
2	199	57.3	4.41	3.12	.651	3060		10	-1	57		6	20		
	200	45.6	1.75	.649	.817	370		260	10	39		6	240		
4	201	51.8	5.92	1.71	.667	700		59	1	30		22	150		
5	204	56.7	.113	1.87	.600	370		330	-1	66		2	700		
6	206	37.7	1.18	1.48	.584	870		92	1	25		4	120		
7	207	51.6	1.54	2.06	.751	780		108	5	31		-2	150		
8	208	57.3	4.06	1.27	.767	640		99	-1	23		2	140		
9	209	42.4	2.45	2.23	.684	990		77	1	46		2	100		
20	210	50.1	2.47	4.80	.767	1910		100	8	45		4	100		

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
21	LR 211 84	47.7	1.04	.639	.600	540		34	-1	40		-2	20		
2	212	52.8	1.70	1.16	.734	640		60	2	101		-2	110		
3	213	47.9	1.22	1.64	.667	1220		93	-1	61		-2	60		
4	214	60.8	3.13	2.11	.567	1270		42	3	82		4	80		
5	215	63.7	2.90	5.17	.250	1360		8	14	51		16	50		
6	216	63.3	3.64	3.72	.450	1200		3	4	76		4	40		
7	217	52.8	1.47	4.28	.584	1730		48	-1	49		20	140		
8	218	53.5	3.91	1.93	.801	640		42	1	79		4	60		
9	219	52.0	4.06	2.12	.784	1200		32	-1	149		-2	20		
30	220	47.3	2.43	.711	.817	400		20	1	105		-2	30		
1	221	52.4	2.93	1.66	.667	410		80	3	41		-2	30		
2	222	59.7	.131	7.78	.567	410		20	5	6		88	710		
	223	58.2	4.37	4.34	.600	2000		61	7	74		16	260		
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TERRAMIN RESEARCH LABS LTD.

conbridge Limited

Project 095

JOB 4-203

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	LR 85 84	58.0	3.33	1.57	.600	1000		22	11	86		-2	140		
2	224	44.7	.164	5.78	.600	740		105	2	40		4	130		
3	225	60.1	2.74	3.27	.400	1310		14	3	53		-1	60		
4	226	57.8	1.37	2.57	.500	830		16	2	67		-2	190		
5	227	54.8	3.38	3.31	.550	1020		20	-1	71		6	70		
6	228	55.0	3.63	2.53	.534	800		410	5	105		138	610		
7	229	50.7	2.32	4.84	.884	2600		20	23	85		50	700		
8	230	47.5	3.25	2.04	1.22	2330		37	8	65		2	70		
9	231	47.3	3.28	1.81	1.18	2060		39	8	62		-2	80		
10	232	79.4	4.87	3.69	.033	180		3	41	44		10	100		
1	233	41.9	2.47	2.66	.617	1410		21	10	63		2	50		
2	234	50.9	2.41	3.69	.684	1070		45	16	29		2	60		
3	235	50.1	2.87	3.72	.651	560		67	2	54		8	150		
4	236	52.4	2.78	3.16	.667	1360		62	5	65		2	50		
5	237	55.6	3.99	4.35	.500	1530		78	2	46		2	160		
6	238	58.4	6.87	.483	.584	350		45	1	81		2	70		
7	239	51.1	3.18	2.51	.634	910		150	8	74		-2	110		
8	240	55.6	3.76	2.65	.567	990		35	-1	67		-2	50		
9	241	49.2	4.11	2.89	.600	650		142	-1	66		22	800		
20	242	56.0	4.21	2.57	.600	1030		52	2	78		-2	80		

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
2 1	LR 243 84	61.6	3.63	2.11	.484	470		96	-1	82		4	110		
2	244	74.0	4.29	3.71	.217	560		5	2	25		-2	30		
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TERRAMIN RESEARCH LABS LTD.

Falconbr[illegible]e Ltd.

JOB [illegible]4-219

Page 1/2

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
1	LR 245 84	60.8	5.37	2.31	.400	1080		35	440	93		4	440		
2	246	48.8	2.62	2.74	.734	980		150	63	88		2	140		
3	247	69.1	.224	4.93	.250	1130		10	107	95		12	200		
4	248	48.1	1.21	2.23	.817	1000		101	10	58		-2	140		
[illegible]	249	42.4	1.35	1.11	.751	360		88	6	81		-2	60		
6	250	50.3	4.03	1.87	.717	420		120	8	96		4	130		
7	251	38.3	.163	6.43	.967	550		90	10	77		32	1050		
8	252	52.4	3.71	2.25	.867	560		300	4	92		28	630		
9	253	44.3	4.43	2.40	.651	330		100	5	95		4	40		
10	254	65.5	3.46	4.90	.217	340		5	20	26		2	50		
1	255	52.4	4.58	3.48	.684	1190		31	12	94		4	40		
2	256	52.2	3.17	5.24	.684	1020		195	9	78		4	260		
[illegible]	257	62.2	4.34	3.81	.634	590		18	3	84		-2	50		
4	258	55.6	4.99	1.14	.651	340		19	14	76		-2	180		
5	259	42.4	1.82	3.06	.634	620		109	1	44		4	270		
6	260	51.6	.806	5.39	.767	840		9	59	181		34	1540		
7	261	46.4	3.01	1.76	1.20	1930		36	9	73		-2	60		
8	262	56.0	4.38	2.18	.651	340		11	3	108		2	160		
9	263	49.2	3.42	1.67	.984	650		115	6	89		4	160		
20	264	56.9	3.30	3.13	.534	1540		6	17	69		2	20		

TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO_2 %	Na_2O %	K_2O %	TiO_2 %	Ba ppm		Cu ppm	Pb ppm	Zn ppm		Au ppb	Ag ppb		
21	LR 265 84	69.7	3.80	4.98	.083	270		1	40	25		6	20		
2	266	64.6	3.17	5.36	.400	1420		4	13	58		4	40		
3	267	43.0	1.75	1.51	.667	520		142	3	70		10	130		
4	268	46.6	3.92	1.40	.934	440		146	2	94		-2	70		
5	269	45.6	1.83	4.27	.684	900		92	80	87		8	260		
6	270	49.2	2.56	2.52	.701	1120		74	23	102		-2	120		
7	271	49.8	3.03	3.08	.667	1100		109	65	74		6	220		
8	272	47.5	2.86	1.60	.817	960		43	71	70		6	220		
9	273	50.9	3.17	1.72	.801	550		122	6	43		32	110		
30	274	46.4	3.15	1.66	1.28	1730		48	18	69		-2	80		
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COMPANY: FALCONBRIDGE LTD.
PROJECT No: 095
ATTENTION: L. UHER/J. HARDY

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE No: 4-844
TYPE ROCK GEOCHEM DATE: AUGUST 24, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
MR-2	1.7	13200	37	14	7	8680	.8	14	108	59300	800	10400
LR248A	.4	31200	18	29	4	39200	.6	45	31	72200	1830	36600
LR255A	5.8	5690	20	18	62	20900	98.9	18	3720	34600	2300	7750
LR256A	1.2	19200	0	27	6	26200	.0	51	311	150000	951	2470
LR256B	1.0	4710	43	5	4	4840	.4	9	46	18900	428	1290
E1	7.9	736	501	3	3	413	.8	3	56	7290	174	267
E2	.7	2320	26400	8	11	33600	5.1	18	12	50100	1050	11000
E3	1.9	22400	382	27	3	40700	1.2	22	20	49400	3850	13900
E4	.5	5600	694	13	5	48800	.5	39	92	70000	1990	29400
E5	4.7	3980	727	7	1	6210	1.7	9	8	28000	1640	1470
E6	1.8	7180	1010	11	3	3010	2.0	13	24	41600	1920	2650
E7	1.9	5350	852	10	2	14400	2.1	15	13	42900	2120	1980
E8	249.4	2090	1920	8	11	5100	40.1	10	425	54300	943	1460
E9	2.7	5950	2490	12	4	2080	.0	20	12	64700	1660	927
E10	1.6	5910	10400	11	3	28400	.0	17	6	47000	1590	8000
E11	.9	2340	1840	6	3	11200	.0	10	3	33700	931	2260
E12	1.3	1300	486	3	0	27900	.7	4	5	13700	458	2190
E13	966.7	705	511	6	24	1700	30.3	3	902	9320	256	496

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
MR-2	726	10	191	36	1260	0	1	39	4	0	88.0	160
LR248A	1860	4	57	48	954	4	5	115	3	0	144.0	86
LR255A	757	4	169	16	631	550	20	100	3	2	22.1	6940
LR256A	201	4	493	29	969	0	0	72	7	0	80.6	64
LR256B	315	4	283	17	1170	9	3	72	2	23	28.0	99
E1	79	1	21	7	49	609	13	5	1	18	3.7	130
E2	1270	3	314	11	725	12	29	152	4	0	10.5	33
E3	921	3	131	19	1260	11	4	183	5	0	40.0	191
E4	1500	3	217	47	760	5	7	239	2	0	22.7	61
E5	703	3	175	11	630	281	4	26	5	0	7.9	197
E6	1220	3	170	11	999	25	6	24	5	2	11.1	230
E7	1220	2	219	13	1110	74	7	65	7	11	11.4	266
E8	344	4	112	9	326	12300	346	49	6	5	5.3	4110
E9	1610	3	159	20	1120	102	7	20	7	8	10.7	103
E10	889	3	186	14	943	66	18	188	6	3	12.4	81
E11	1060	2	142	10	702	27	6	76	5	16	5.8	99
E12	543	1	53	6	124	35	4	136	3	14	4.6	84
E13	211	5	59	9	124	216000	1010	36	5	19	2.5	1860

COMPANY: FALCONBRIDGE LTD.
PROJECT No: 095
ATTENTION: L. UHER/J. HARDY

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524 *TYPE ROCK GEOCHEM*

FILE No: 4-844
DATE: AUGUST 24, 1984

(REPORT VALUES IN PPM)	BA	SE	AU-PPB	
MR-2	189	0	10	
LR248A	92	0	5	
LR255A	115	0	20	
LR256A	67	0	32	
LR256B	71	0	5	
E1	7	0	2200	Q vein at entrance adit 10cm → Aspy typical of Ezphrates
E2	28	0	2150	Q grab dump py, large Aspy
E3	57	0	38	
E4	45	0	30	
E5	28	0	?fault zone 180	Q vein in trench = grid in July schistose frag. rock 1.5m
E6	36	0	560	continuation over 2m
E7	35	0	380	continues over 15m
E8	19	0	50000	high grade on dump. py, ga, sph, cpy in mass. Q rusty paper schist w Q veins, v weathered, chip 2m
E9	53	0	600	
E10	27	0	500	trench 1m chip cover 1m silic. schist, Q veins - py in schist only
E11	27	0	180	chip continues 2m
E12	13	0	380	chip 30cm Q vein in schisty rock
E13	6	1	1700	high grade ?shipping pile

long strike length
Cochrane geophysic. report - no copy yet

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: FALCONBRIDGE LTD.
PROJECT: 301-068-097
ATTENTION: L. UHER/J. HARDY

FILE: 4-844
DATE: AUGUST 24/84
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
E-1	2.33	0.068
2	2.28	0.066
8	72.40	2.112
E-13	1.58	0.046

Certified by _____

MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: FALCONBRIDGE LTD.
PROJECT: 095
ATTENTION: L. UHER/J. HARDY

FILE: 4-698
DATE: AUGUST 6/84
TYPE: ROCK GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 9 samples submitted.

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AU-PPB FIRE	
TB1	48750	325	19500	25.5	1040	TRUE BLUE HIGHGRADE
TB2	7750	840	646	33.0	2000	OXIDIZED SULPHIDES
TB3	4750	362	189	13.3	375	SILICEOUS CHIST IN FOOTWAL
LR-49A-84	159	35	95	1.7 ✓	20 ✓	HARBOURMEAU ROAD
LR-202-84	7250	37	203	23.4 ✓	35 ✓	MGM CLAIM VEIN Quartz
LR-115A-84	42	18	32	0.6 ✓	10 ✓	small adit
LR-203-84	10000	348	691	37.0 ✓	580 ✓	MGM CLAIM VEIN (.018 oz
LR-205-84	67	10	28	0.6 ✓	15 ✓	MGM CLAIM QUARTZ FLOAT
LR-155A-84	4800	14500	8500	81.0 ✓ (2.5oz)	995 ✓	HORSEFLY SCHAFT (0.03oz Quartz in Adits ACE IN HOLE 0.3m

*SOME OF THESE SAMPLE SHOULD HAVE BEEN REQUESTED FOR ASSAY.

Certified by [signature]

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

ASSAY REPORT

TO: Falconbridge Ltd.
6415 - 64 Street
Delta, B.C.
V4K 4E2

FILE NO.: 84-124

DATE: June 21, 1984

ATTENTION: Jenna Hardy cc. John Gammon

PROJECT: 30101-608-095

Sample Description	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	GEOCHEMICAL ANALYSES
St. George Rd.	L5	0.8	30	31	42	

The prefix "L" indicates "less than"

These are geochemical determinations:
Au: fire assay, AA finish
Ag,Cu,Pb,Zn: aqua regia digestion, AA finish.

Ludek:
Results on your exhalite

Rejects retained one month, pulps one year, unless specific arrangements made.

COMPANY: FALCONBRIDGE LTD. MIN-EN LABS ICP REPORT (ACT:GEO3B) PAGE 1 OF 3

PROJECT No: 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE No: 4-967R

ATTENTION: L.UHER (604)980-5814 OR (604)988-4524 *TYPE ROCK GEOCHEM* DATE: SEPTEMBER 10, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
84297	.2	5230	12	14	2	14100	.5	17	17	41200	3310	3080
LR-152	.4	4660	8	4	1	4430	.6	3	2	7970	1440	1570
LR-152P	.0	8500	1	10	2	8920	.4	17	2	38200	2720	2690
LR-222	1.0	5270	1	10	3	348	.4	15	81	37500	2750	817
LR-125	.5	34900	0	33	7	15200	.0	29	66	95700	1180	17200
LR-125A	.6	21300	0	21	3	1750	.0	12	15	66900	1750	10800
LR-80	.5	33800	0	33	6	17000	.0	18	2	96700	4830	14700
LR-80A	.2	31600	0	30	5	39300	.0	19	3	83500	3730	14800
LR-81	.6	26600	0	25	12	6220	.0	103	372	75400	2110	15000

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
84297	785	16	115	0	775	31	11	42	6	6	98.1	70
LR-152	293	0	280	0	135	35	4	15	16	4	5.9	95
LR-152P	1240	0	39	0	778	22	9	22	5	6	28.6	82
LR-222	225	10	36	0	582	25	68	6	4	4	19.7	66
LR-125	1380	0	233	0	1520	10	4	53	0	7	137.9	95
LR-125A	262	2	122	0	667	16	4	22	0	4	40.5	80
LR-80	850	0	886	0	1810	0	1	65	0	6	117.9	24
LR-80A	841	0	1060	0	1540	1	2	84	0	7	105.6	26
LR-81	1000	0	165	0	1680	7	1	32	0	3	58.4	41

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
84297	121	0	132
LR-152	36	1	21 ✓
LR-152P	126	0	13 ✓
LR-222	66	0	36 ✓
LR-125	118	0	4 ✓
LR-125A	99	0	8 ✓
LR-80	163	0	1 ✓
LR-80A	93	0	3 ✓
LR-81	108	0	215 ✓

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GEO3B) PAGE 1 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-902AR

ATTENTION: J.HARDY/L.UHER | (604)980-5814 OR (604)988-4524 *TYPE ROCK GEOCHEM* | DATE: SEPTEMBER 1, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
ZN1	1.1	7810	159	26	20	25800	1.5	46	983	250000	1370	3220
ZN2	.5	8310	22700	31	17	13700	3.4	66	874	284000	2460	3570
ZN3	.2	12600	318	31	10	34100	1.4	31	49	192000	1180	2830
ZN4	.1	11800	210	26	10	41100	1.1	26	38	169000	1240	2750
ZN5	1.8	14600	54600	36	18	4770	8.2	100	497	277000	3750	4690
ZN6	.4	11900	967	42	11	14100	3.1	45	291	350000	2460	3670
UN-1	15.9	8170	138000	24	310	679	10.0	103	7320	218000	266	2840
UN-2	1.3	20100	30800	20	29	6480	7.1	41	380	65200	2340	10100
LR269A	3.3	2420	775	7	6	27500	3.8	16	193	27500	1350	5590
LR269B	4.7	2360	296	7	5	27000	1.6	18	277	28000	1320	6790
5650	.2	2380	250	32	3	6150	.9	13	20	15200	503	608
MS-1	1.3	2260	7320	28	77	316	1.4	539	4510	390000	70	2110

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
ZN1	383	10	230	42	479	2	10	43	33	0	36.7	19
ZN2	286	11	330	38	395	4	31	46	33	0	46.0	21
ZN3	755	9	590	35	751	19	12	39	27	0	39.5	22
ZN4	781	9	607	29	830	14	11	27	26	0	39.5	18
ZN5	287	13	398	35	545	5	72	57	34	0	65.3	24
ZN6	405	14	497	47	352	0	12	67	42	0	59.5	29
UN-1	0	13	17	34	426	77	169	41	29	0	19.3	48
UN-2	238	6	604	18	1400	31	37	60	20	0	83.5	40
LR269A	802	5	94	16	723	34	64	111	12	0	15.2	107
LR269B	824	4	141	18	663	30	65	140	12	0	14.5	68
5650	629	2	482	9	1750	41	4	61	5	0	5.6	17
MS-1	0	13	10	62	0	0	10	49	40	0	.0	10

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
ZN1	47	0	1400
ZN2	57	0	1250
ZN3	33	0	50
ZN4	30	0	20
ZN5	69	1	20
ZN6	70	0	200
UN-1	34	3	13000
UN-2	28	1	275
LR269A	103	0	185
LR269B	316	0	415
5650	32	0	30
MS-1	54	0	2000

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: FALCONBRIDGE LTD.
PROJECT: 095
ATTENTION: J.HARDY/L.UHER

FILE: 4-766
DATE: AUGUST 14/84
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON	
UG-1	9.12	0.266	Grand Union
UG-2	100.50	2.931	
UG-3	.58	0.017	
UG-4	.17	0.005	
UG-5	28.00	0.817	
UG-6	1.06	0.031	
UG-7	13.65	0.398	
UG-8	1.38	0.040	
UG-9	48.90	1.426	
UG-10	.39	0.011	
GH-11	2.20	0.064	
GH-1	1.66	0.048	Gold Hill
GH-2	1.40	0.041	
GH-3	1.81	0.053	
GH-4	1.36	0.040	
GH-5	1.30	0.038	
GH-6	14.10	0.411	
GH-7	1.62	0.047	
GH-8	1.86	0.054	
GH-9	2.78	0.081	
GH-10	.14	0.004	
GH-11	.15	0.004	

Certified by _____

MIN-EN LABORATORIES LTD.

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03B) PAGE 1 OF 3
PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-766A
ATTENTION: J.HARDY/L.UHER | (604)980-5814 OR (604)988-4524 | *TYPE ROCK ASSAY* | DATE: AUGUST 14, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
UG-1	6.9	8610	246	20	48	4650	1.9	60	1920	183000	1980	3460
UG-2	26.7	1630	599	14	217	178	.0	308	110	182000	513	1360
UG-3	.8	11100	53	15	8	3420	.9	11	213	42400	2760	3720
UG-4	1.1	24200	0	21	8	16200	1.4	19	134	55700	7090	9240
UG-5	4.4	11700	49	20	135	624	.3	104	1640	146000	1950	3370
UG-6	1.5	17600	18	20	26	12800	.8	15	1350	75600	1830	7660
UG-7	2.2	4610	796	6	15	708	2.1	15	304	19100	2410	687
UG-8	1.8	23900	1	22	16	8130	4.2	16	565	84400	5260	7370
UG-9	31.2	15600	172	20	131	2340	.4	111	1340	119000	842	6410
UG-10	.9	23000	14	24	8	8690	2.7	23	179	57300	2640	13000
UG-11	1.0	6750	7	10	26	1130	.5	14	608	37800	1870	872
GH-1	1.9	4220	0	12	67	4670	.0	71	988	167000	1230	2710
GH-2	2.2	6050	3	15	51	4920	.0	78	1050	173000	1240	3530
GH-3	1.9	2540	10	13	46	3830	1.1	88	1230	190000	636	2190
GH-4	4.6	4670	29	16	126	5540	.1	84	1820	180000	872	3630
GH-5	1.8	4160	24	11	38	14900	.0	53	484	114000	607	2850
GH-6	2.5	8070	52	14	332	9670	.2	42	397	71400	317	1460
GH-7	3.0	9140	37	26	68	5250	1.4	251	2820	300000	936	5040
GH-8	1.3	2230	27	5	71	6000	.0	12	103	23300	802	1060
GH-9	2.8	7550	24	17	103	8010	.3	105	1360	183000	1030	4700
GH-10	1.6	2180	17	10	80	2580	.0	48	973	128000	381	1490
GH-11	1.2	2900	16	6	26	3070	.0	15	191	67600	1520	1940

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
UG-1	208	7	44	24	157	53	2	33	5	0	21.4	168
UG-2	0	6	13	23	0	47	30	24	5	0	9.5	50
UG-3	534	16	74	10	422	14	1	21	2	10	27.7	43
UG-4	1440	3	1000	7	835	14	0	51	0	10	74.5	93
UG-5	225	9	56	15	187	7	4	30	5	0	23.0	23
UG-6	1070	4	80	9	337	22	3	34	3	3	43.6	89
UG-7	64	2	52	4	316	14	0	6	1	3	5.7	200
UG-8	902	4	504	5	849	11	0	49	0	3	43.5	344
UG-9	536	12	24	34	67	53	6	36	6	0	46.0	47
UG-10	1690	4	449	18	595	21	0	55	0	14	94.6	171
UG-11	171	4	49	12	396	11	1	11	3	0	11.3	15
GH-1	108	13	183	64	848	0	0	26	0	0	206.2	68
GH-2	102	13	146	74	1120	0	3	29	4	0	167.1	52
GH-3	79	16	60	95	1190	3	3	26	5	0	146.6	58
GH-4	99	19	74	107	1670	73	9	29	8	14	137.8	60
GH-5	133	29	136	83	2650	8	3	31	6	21	214.7	38
GH-6	80	47	495	70	1540	21	3	55	6	21	43.9	25
GH-7	154	26	42	157	492	8	10	52	9	0	196.0	135
GH-8	102	4	222	12	499	22	3	23	5	32	23.0	17
GH-9	167	30	107	128	1140	10	8	39	7	8	279.7	47
GH-10	15	22	127	77	893	2	4	16	4	10	284.7	9
GH-11	38	9	247	19	1370	9	0	12	1	19	116.0	7

(REPORT VALUES IN PPM)	BA	SE
UG-1	85	0
UG-2	52	0
UG-3	91	0
UG-4	220	0
UG-5	93	0
UG-6	55	0
UG-7	64	0
UG-8	102	0
UG-9	50	0
UG-10	66	0
UG-11	93	0
GH-1	67	0
GH-2	63	0
GH-3	56	0
GH-4	57	0
GH-5	40	0
GH-6	33	0
GH-7	78	0
GH-8	27	0
GH-9	58	0
GH-10	33	0
GH-11	36	0

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03B) PAGE 1 OF 3

PROJECT NO: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-820R

ATTENTION: L. UHER/J. HARDY | (604)980-5814 OR (604)988-4524 | *ROCK GEOCHEM* | DATE: AUGUST 22, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
DP1	14.6	1270	6030	12	19	2080	.0	73	353	137000	128	1750
DP2	61.6	2490	1920	23	136	2540	7.7	200	9660	337000	97	3100
DP3	3.0	1940	2070	15	20	4420	.0	64	604	188000	62	2990
DP4	5.3	1570	153	14	8	4520	.5	9	163	37400	489	2460
MR1	.7	4830	30	7	1	35700	.6	14	31	39800	1510	4990
SK1	1.5	13900	72	16	2	3690	1.6	20	73	45400	1660	6670
LR234A-84	.3	7780	14	9	0	2810	.0	6	30	22600	1100	3360
LR223A-84	.8✓	9420	27	14	2	1780	.6	24	105	70400	2580	4660
LR145A-84	.5✓	3180	17	6	1	14700	.2	7	20	19000	1970	724
LR145B-84	19.1✓	11200	0	42	85	6550	.0	65	5220	159000	231	5960
LR217A-84	1.1✓	13100	1	19	5	936	.0	26	115	145000	868	9170

1 ppm = 1000 ppb

81131 — 64
66 — 122
82 — 1530
81056 — 108

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
DP1	73	49	29	63	0	120	52	12	3	0	99.9	18
DP2	70	20	14	165	31	310	216	12	5	0	81.8	1170
DP3	240	6	41	98	722	46	31	17	7	0	523.7	60
DP4	125	463	141	9	627	90	40	8	1	0	135.6	20
MR1	989	5	28	10	717	43	3	56	5	0	50.1	78
SK1	789	7	251	34	1060	55	10	22	2	0	45.6	183
LR234A-84	427	1	421	6	559	25	0	31	1	0	37.2	36
LR223A-84	208	5	173	18	1620	155	3	19	2	0	33.7	44
LR145A-84	446	1	264	5	519	36	1	56	2	0	6.4	22
LR145B-84	397	5	65	18	472	2	0	36	1	0	131.4	44
LR217A-84	266	14	52	19	642	17	0	28	1	0	168.8	43

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
DP1	52	0	570
DP2	81	0	1410
DP3	53	0	125
DP4	48	0	61
MR1	86	0	50
SK1	83	0	30
LR234A-84	58	0	10
LR223A-84	240	0	12
LR145A-84	144	0	20✓
LR145B-84	42	0	655✓
LR217A-84	56	0	20✓

COMPANY: FALCONBRIDGE LTD. MIN-EN LABS ICP REPORT (ACT:GE03B) PAGE 1 OF 3

PROJECT No: 095 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE No: 4-766A

ATTENTION: J.HARDY/L.UHER (604)980-5814 OR (604)988-4524 *TYPE ROCK ASSAY* DATE: AUGUST 14, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
UG-1	6.9	8610	246	20	48	4650	1.9	60	1920	183000	1980	3460
UG-2	26.7	1630	599	14	217	178	.0	308	110	182000	513	1360
UG-3	.8	11100	53	15	8	3420	.9	11	213	42400	2760	3720
UG-4	1.1	24200	0	21	8	16200	1.4	19	134	55700	7090	9240
UG-5	4.4	11700	49	20	135	624	.3	104	1640	146000	1950	3370
UG-6	1.5	17600	18	20	26	12800	.8	15	1350	75600	1830	7660
UG-7	2.2	4610	796	6	15	708	2.1	15	304	19100	2410	687
UG-8	1.8	23900	1	22	16	8130	4.2	16	565	84400	5260	7370
UG-9	31.2	15600	172	20	131	2340	.4	111	1340	119000	842	6410
UG-10	.9	23000	14	24	8	8690	2.7	23	179	57300	2640	13000
UG-11	1.0	6750	7	10	26	1130	.5	14	608	37800	1870	872
GH-1	1.9	4220	0	12	67	4670	.0	71	988	167000	1230	2710
GH-2	2.2	6050	3	15	51	4920	.0	78	1050	173000	1240	3530
GH-3	1.9	2540	10	13	46	3830	1.1	88	1230	190000	636	2190
GH-4	4.6	4670	29	16	126	5540	.1	84	1820	180000	872	3630
GH-5	1.8	4160	24	11	38	14900	.0	53	484	114000	607	2850
GH-6	2.5	8070	52	14	332	9670	.2	42	397	71400	317	1460
GH-7	3.0	9140	37	26	68	5250	1.4	251	2820	300000	936	5040
GH-8	1.3	2230	27	5	71	6000	.0	12	103	23300	802	1060
GH-9	2.8	7550	24	17	103	8010	.3	105	1360	183000	1030	4700
GH-10	1.6	2180	17	10	80	2580	.0	48	973	128000	381	1490
GH-11	1.2	2900	16	6	26	3070	.0	15	191	67600	1520	1940

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
UG-1	208	7	44	24	157	53	2	33	5	0	21.4	168
UG-2	0	6	13	23	0	47	30	24	5	0	9.5	50
UG-3	534	16	74	10	422	14	1	21	2	10	27.7	43
UG-4	1440	3	1000	7	835	14	0	51	0	10	74.5	93
UG-5	225	9	56	15	187	7	4	30	5	0	23.0	23
UG-6	1070	4	80	9	337	22	3	34	3	3	43.6	89
UG-7	64	2	52	4	316	14	0	6	1	3	5.7	200
UG-8	902	4	504	5	849	11	0	49	0	3	43.5	344
UG-9	536	12	24	34	67	53	6	36	6	0	46.0	47
UG-10	1690	4	449	18	595	21	0	55	0	14	94.6	171
UG-11	171	4	49	12	396	11	1	11	3	0	11.3	15
GH-1	108	13	183	64	848	0	0	26	0	0	206.2	68
GH-2	102	13	146	74	1120	0	3	29	4	0	167.1	52
GH-3	79	16	60	95	1190	3	3	26	5	0	146.6	58
GH-4	99	19	74	107	1670	73	9	29	8	14	137.8	60
GH-5	133	29	136	83	2650	8	3	31	6	21	214.7	38
GH-6	80	47	495	70	1540	21	3	55	6	21	43.9	25
GH-7	154	26	42	157	492	8	10	52	9	0	196.0	135
GH-8	102	4	222	12	499	22	3	23	5	32	23.0	17
GH-9	167	30	107	128	1140	10	8	39	7	8	279.7	47
GH-10	15	22	127	77	893	2	4	16	4	10	284.7	9
GH-11	38	9	247	19	1370	9	0	12	1	19	116.0	7

(REPORT VALUES IN PPM)	BA	SE
UG-1	85	0
UG-2	52	0
UG-3	91	0
UG-4	220	0
UG-5	93	0
UG-6	55	0
UG-7	64	0
UG-8	102	0
UG-9	50	0
UG-10	66	0
UG-11	93	0
GH-1	67	0
GH-2	63	0
GH-3	56	0
GH-4	57	0
GH-5	40	0
GH-6	33	0
GH-7	78	0
GH-8	27	0
GH-9	58	0
GH-10	33	0
GH-11	36	0

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE:(604)980-5814 OR (604)988-4524 TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: FALCONBRIDGE LTD.
PROJECT: 095
ATTENTION: J.HARDY/L.UHER

FILE:4-766
DATE: AUGUST 14/84
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
UG-1	9.12	0.266
UG-2	100.50	2.931
UG-3	.58	0.017
UG-4	.17	0.005
UG-5	28.00	0.817
UG-6	1.06	0.031
UG-7	13.65	0.398
UG-8	1.38	0.040
UG-9	48.90	1.426
UG-10	.39	0.011
UG-11	2.20	0.064
GH-1	1.66	0.048
GH-2	1.40	0.041
GH-3	1.81	0.053
GH-4	1.36	0.040
GH-5	1.30	0.038
GH-6	14.10	0.411
GH-7	1.62	0.047
GH-8	1.86	0.054
GH-9	2.78	0.081
GH-10	.14	0.004
GH-11	.15	0.004

Certified by

MIN-EN LABORATORIES LTD.

MIN—EN Laboratories Ltd.
Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524 TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: FALCONBRIDGE LTD.
PROJECT:
ATTENTION: JENA HARDY

FILE 4-503/P1
DATE: JULY 9/84
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE		AU OZ/TON	
G1	10.30	.32	0.300	MASSIVE SULPHIDE XS 30cm — 47182
G2	2.28	.071	0.066	
G3	2.34	.070	0.065	HANGING WALL OF ABOVE XS 100cm
G4	.42	.013	0.012	FOOTWALL OF ABOVE XS 100cm
G5	5.58	.17	0.163	MASSIVE SULPHIDE XS 80 cm } 47179
G6	15.90	.50	0.464	MASSIVE SULPHIDE XS 80cm }
G7	.67	.021	0.020	HANGING-WALL XS 100cm
G8	.48	.015	0.014	FOOTWALL XS 100m
G9	19.10	.60	0.557	MASSIVE SULPHIDE XS 30cm 47161
G10	11.65	.36	0.340	HANGING WALL XS 100cm
G11	4.55	.14	0.133	FOOTWALL XS 100 m
G12	.24	.0075	0.007	CHIP XS 200cm
G13	3.29	.10	0.096	47168
G14	33.20	1.04	0.968	PB RICH EVENING STAR
G15	20.65	0.65	0.602	RICHEST OF RICH
G16	2.12	.066	0.062	PY RICH
G17	7.60	.24	0.222	HANGING WALL
G18	3.80	.12	0.111	MASSIVE SULPHIDE BLOW
G19	.23	.0072	0.007	FOOTWALL
G20	.12	.0038	0.003	HANGING WALL
G21	.22	.0069	0.006	
G22	.39	.012	0.011	
G23	7.98	.25	0.233	QUARTZ VEIN 76184
G24	.19	.0059	0.006	
G25	2.90	.091	0.085	
G26	.22	.0069	0.006	
G27	.10	.0032	0.003	
G28	.02	.001	0.001	
G29	.35	.011	0.010	
G30	5.42	.17	0.158	

Certified by

MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: FALCONBRIDGE LTD.
PROJECT:
ATTENTION: JENA HARDY

FILE: 4-503/P2
DATE: JULY 9/84
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE		AU OZ/TON
G31	.16	.005	0.005
G32	.08	.0025	0.002
G32DUP	.06	.002	0.002
G34	.01	.0003	0.001
G34A	.29	.0091	0.008
G35	.04		0.001
G36	.01		0.001
G37	.01		0.001
G38	2.62	.082	0.076
G39	1.03	.032	0.030
G40	.23	.007	0.007
G41	14.70	.46	0.429
G42	.02		0.001
G43	1.38	.043	0.040
G44	7.44	.23	0.217
G45	3.01	.094	0.088
G33	.01		0.001

Certified by Eric Smith

MIN-EN LABORATORIES LTD.

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
601	4.1	2610	1510	19	101	162	9.4	276	4790	412000	56	1980
602	9.4	3940	14600	13	123	479	100.5	247	7250	204000	1740	1970
603	3.8	13000	33700	12	63	1620	236.7	504	2690	91600	3010	8120
604	1.7	17800	6110	14	27	3080	33.7	72	1210	58500	4740	9340
605	10.3	7170	6380	16	219	6670	44.4	127	10100	144000	485	1590
606	1.8	2330	195000	16	227	3520	818.4	835	1380	197000	331	1290
607	2.6	17700	9610	15	28	4580	55.9	142	899	45800	7240	7640
608	13.5	17100	3590	15	81	5110	21.3	76	4860	53700	4720	6620
609	4.0	2220	1810	16	331	3430	11.7	167	7910	331000	251	2370
610	2.5	23300	25800	20	458	5380	187.4	468	1430	90500	13100	16400
611	1.7	24800	29700	25	85	9250	190.2	671	657	115000	12600	15300
612	1.7	27800	422	22	21	12900	1.9	31	163	63000	10100	11400
613	6.4	5920	10200	8	81	3180	62.6	616	4440	106000	1930	3050
614	2.0	17100	160000	21	110	27200	307.7	5270	114	142000	3240	5720
615	1.8	15100	41900	17	54	15100	303.6	1540	1060	118000	2120	4270
616	5.1	35900	347	36	58	770	4.3	107	4310	222000	1270	15800
617	.6	4010	4850	1	11	4220	28.4	183	93	21600	441	1550
618	1.5	14500	20000	16	129	6790	130.8	881	888	122000	4900	10700
619	1.0	14100	1480	11	15	2590	8.6	33	258	42600	4820	9160
620	1.4	25800	441	20	13	4190	3.1	30	82	60500	11900	13500
621	1.4	4260	1020	18	9	503	7.8	154	1060	333000	753	2520
622	2.8	3540	4500	21	38	1140	26.1	412	4890	415000	755	2450
623	1.7	21500	32500	20	244	22300	229.0	754	422	54500	695	2860
624	2.2	13800	1340	16	19	5410	8.5	60	517	124000	1250	6350
625	2.3	17100	4550	15	28	14100	26.2	284	974	68700	6730	6660
626	.8	4430	47	17	13	3210	1.9	284	1570	298000	436	2700
627	1.2	12300	16	20	10	2430	2.2	251	822	229000	5040	8000
628	1.7	26100	12	26	12	2020	1.4	29	448	143000	17600	23300
629	1.4	15000	1650	12	18	5300	10.2	81	561	55400	7130	8970
630	1.2	2270	4160	22	75	154	27.8	801	3200	408000	142	2180
631	1.1	16500	76	14	13	9260	.0	35	91	51600	6080	8060
632	6.6	3870	158	21	78	586	1.1	391	5490	307000	73	3630
632 DUP	5.6	3390	158	22	47	304	.0	450	3500	350000	77	3200
634	1.4	29900	27	24	17	21100	.0	35	244	60000	3850	10800
634A	.9	15400	30	12	15	12600	.0	21	177	45800	2470	5570
635	1.6	11600	30	25	43	4540	.2	437	2540	223000	2190	5280
636	1.8	8910	30	24	31	30300	.2	130	1460	72700	558	4900
637	1.1	14500	5	14	9	18200	.0	14	48	31500	1590	5150
638	3.3	2650	876	1	68	2770	.0	16	640	50700	2530	946
639	1.5	12600	161	11	42	7540	.0	27	643	81800	6650	7560
640	2.5	13800	281	17	47	2460	.7	82	2470	140000	5960	8200
641	2.6	12600	51800	17	158	3450	55.8	1960	4670	130000	3050	5760
642	1.8	5940	46100	10	23	3200	29.5	793	646	98100	2210	1640
643	8.1	3580	133000	10	131	3450	25.1	1550	3770	120000	1500	1020
644	1.3	22200	268	18	17	6780	.0	29	128	63100	7260	11600
645	.7	4630	12100	1	12	12200	1.3	884	59	24700	350	1550
633	.9	17000	343	40	9	2850	.5	19	300	51700	989	7560

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
G01	0	5	5	51	0	0	0	30	0	0	.0	12
G02	5	78	191	21	137	0	29	27	2	0	22.2	37
G03	214	9	291	37	592	14	42	32	4	0	143.3	45
G04	191	8	902	31	651	15	8	50	3	7	141.4	36
G05	563	7	67	27	466	0	32	30	5	0	16.8	202
G06	315	8	53	89	44	0	132	24	8	0	1.8	53
G07	362	4	558	23	647	5	11	41	0	9	134.7	102
G08	214	4	654	14	855	9	15	34	1	9	103.9	152
G09	0	7	27	42	0	0	0	28	0	0	2.9	16
G10	213	6	605	24	810	15	34	59	0	2	163.9	37
G11	230	79	940	32	1120	12	35	70	1	2	170.9	30
G12	180	6	1850	23	910	6	0	111	0	10	193.1	10
G13	69	6	216	21	823	6	11	23	5	2	47.9	103
G14	211	10	1520	87	233	3	120	104	8	0	35.5	18
G15	322	7	1070	50	298	2	53	67	5	2	31.8	22
G16	256	21	231	59	0	0	0	68	0	0	51.6	42
G17	111	1	375	7	268	3	8	23	0	13	15.0	4
G18	182	6	292	35	510	10	13	43	4	2	147.1	28
G19	126	5	459	12	638	12	3	30	2	11	125.5	14
G20	266	5	1020	15	782	2	0	48	0	9	163.4	24
G21	0	9	47	68	6	0	0	32	3	0	9.0	5
G22	0	8	70	56	0	0	0	33	0	0	.0	18
G23	197	8	1290	29	705	13	26	57	2	11	31.1	12
G24	190	27	737	17	862	0	7	55	3	2	96.9	21
G25	247	5	1620	15	743	10	7	49	2	125	56.4	34
G26	0	16	242	95	0	0	0	34	0	0	5.2	10
G27	113	12	596	85	314	0	0	43	1	0	59.2	18
G28	291	7	714	16	232	0	0	50	0	0	240.9	21
G29	214	13	1120	29	677	33	4	43	0	8	133.6	45
G30	0	8	17	107	0	0	0	29	0	0	.0	4
G31	281	4	885	21	2090	8	0	45	10	6	84.7	32
G32	0	29	14	75	84	0	16	7	21	0	35.9	23
G32 DUP	0	8	16	83	0	0	10	6	21	0	10.7	9
G34	234	3	2870	16	2190	0	0	179	0	4	168.0	5
G34A	214	20	905	8	748	0	0	44	1	1	135.3	9
G35	94	27	426	95	351	0	12	27	16	0	50.8	24
G36	279	572	700	27	762	1	7	44	5	0	57.2	37
G37	194	4	972	6	1810	0	0	93	0	9	86.8	5
G38	20	5	133	2	135	0	0	6	0	0	34.6	2
G39	192	3	441	15	1170	0	0	26	0	0	107.3	20
G40	150	6	338	53	532	3	11	19	10	0	135.7	69
G41	127	8	598	68	617	12	57	29	14	0	95.6	42
G42	85	8	405	56	1260	10	33	33	11	0	73.7	18
G43	0	10	91	67	814	20	116	9	14	0	18.2	46
G44	324	5	1080	21	1150	0	0	58	0	2	166.5	20
G45	80	5	1140	13	767	0	11	30	3	2	26.8	4
G33	252	7	557	12	1760	23	11	22	10	1	94.6	28

(REPORT VALUES IN PPM)	BA	SE
G01	63	0
G02	51	0
G03	64	6
G04	72	11
G05	33	0
G06	43	11
G07	104	7
G08	66	2
G09	53	0
G10	126	9
G11	108	12
G12	162	2
G13	67	0
G14	72	36
G15	52	12
G16	69	0
G17	12	4
G18	71	2
G19	87	6
G20	197	0
G21	78	0
G22	78	0
G23	27	25
G24	33	0
G25	103	2
G26	52	0
G27	86	0
G28	109	0
G29	68	0
G30	67	0
G31	56	0
G32	49	1
G32 DUP	54	0
G34	127	0
G34A	36	0
G35	49	25
G36	19	0
G37	12	0
G38	80	0
G39	84	0
G40	75	11
G41	51	35
G42	83	27
G43	72	42
G44	101	0
G45	11	0
G33	38	26

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: FALCONBRIDGE LTD.
PROJECT:
ATTENTION: JENA HARDY

FILE 4-503/P1
DATE: JULY 9/84
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON	
G1	10.30	0.300	47[illegible]2 vein
G2	2.28	0.066	adit
G3	2.24	0.065	HW
G4	.42	0.012	FW
G5	5.58	0.163	47179 vein
G6	15.90	0.464	vein
G7	.67	0.020	HW
G8	.48	0.014	FW
G9	19.10	0.557	47161 vein
G10	11.65	0.340	HW
G11	4.55	0.133	HW
G12	.24	0.007	veinlets
G13	3.29	0.096	47168 vein
G14	33.20	0.968	47289 Evening Star - dump
G15	20.65	0.602	dump
G16	2.12	0.062	dump
G17	7.60	0.222	wallrock - HW
G18	3.80	0.111	47292 vein
G19	.23	0.007	HW
G20	.12	0.003	FW
G21	.22	0.006	vein
G22	.39	0.011	Dump at G13
G23	7.98	0.233	[illegible] - vein
G24	.19	0.006	stringers
G25	2.90	0.085	4713[illegible] - low grade dump
G26	.22	0.006	47138 - high grade dump
G27	.10	0.003	[illegible]
G28	.02	0.001	regolith atop intrusive
G29	.35	0.010	wallrock
G30	5.42	0.158	47137 grab

Certified by [signature]

MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: FALCONBRIDGE LTD.
PROJECT:
ATTENTION: JENA HARDY

FILE: 4-503/P2
DATE: JULY 9/84
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON	
G31	.16	0.005	Rossland vein
G32	.08	0.002	47183
G32DUP	.06	0.002	wall rock
G34	.01	0.001	wall rock
G34A	.29	0.008	vein
G35	.04	0.00	47171,2 hydrothermal
G36	.01	0.001	
G37	.01	0.001	Rossland vein
G38	2.62	0.076	47164 vein
G39	1.03	0.030	do ?
[illegible]	.23	0.007	4716[illegible] vein
G41	14.70	0.429	47166 vein
G42	.02	0.001	[illegible]
G43	1.38	0.040	47140 vein
G44	7.44	0.217	Quartz vein
G45	3.01	0.088	47138 wallrock to hydrothermal
G33	.01	0.001	wall rock

Certified by [signature]

MIN-EN LABORATORIES LTD.

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03B) PAGE 1 OF 3

PROJECT No? | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-503R/P1+2

ATTENTION: JENA HARDY | (604)980-5814 OR (604)988-4524 | *TYPE ROCK GEOCHEM* | DATE: JULY 9, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
G01	4.1	2610	1510	19	101	162	9.4	276	4790	412000	56	1980
G02	9.4	3940	14600	13	123	479	100.5	247	7250	204000	1740	1970
G03	3.8	13000	33700	12	63	1620	236.7	504	2690	91600	3010	8120
G04	1.7	17800	6110	14	27	3080	33.7	72	1210	58500	4740	9340
G05	10.3	7170	6380	16	219	6670	44.4	127	10100	144000	485	1590
G06	1.8	2330	195000	16	227	3520	818.4	835	1380	197000	331	1290
G07	2.6	17700	9610	15	28	4580	55.9	142	899	45800	7240	7640
G08	13.5	17100	3590	15	81	5110	21.3	76	4860	53700	4720	6620
G09	4.0	2220	1810	16	331	3430	11.7	167	7910	331000	251	2370
G10	2.5	23300	25800	20	458	5380	187.4	468	1430	90500	13100	16400
G11	1.7	24800	29700	25	85	9250	190.2	671	657	115000	12600	15300
G12	1.7	27800	422	22	21	12900	1.9	31	163	63000	10100	11400
G13	6.4	5920	10200	8	81	3180	62.6	616	4440	106000	1930	3050
G14	2.0	17100	160000	21	110	27200	307.7	5270	114	142000	3240	5720
G15	1.8	15100	41900	17	54	15100	303.6	1540	1060	118000	2120	4270
G16	5.1	35900	347	36	58	770	4.3	107	4310	222000	1270	15800
G17	.6	4010	4850	1	11	4220	28.4	183	93	21600	441	1550
G18	1.5	14500	20000	16	129	6790	130.8	881	888	122000	4900	10700
G19	1.0	14100	1480	11	15	2590	8.6	33	258	42600	4820	9160
G20	1.4	25800	441	20	13	4190	3.1	30	82	60500	11900	13500
G21	1.4	4260	1020	18	9	503	7.8	154	1060	333000	753	2520
G22	2.8	3540	4500	21	38	1140	26.1	412	4890	415000	755	2450
G23	1.7	21500	32500	20	244	22300	229.0	754	422	54500	695	2860
G24	2.2	13800	1340	16	19	5410	8.5	60	517	124000	1250	6350
G25	2.3	17100	4550	15	28	14100	26.2	284	974	68700	6730	6660
G26	.8	4430	47	17	13	3210	1.9	284	1570	298000	436	2700
G27	1.2	12300	16	20	10	2430	2.2	251	822	229000	5040	8000
G28	1.7	26100	12	26	12	2020	1.4	29	448	143000	17600	23300
G29	1.4	15000	1650	12	18	5300	10.2	81	561	55400	7130	8970
G30	1.2	2270	4160	22	75	154	27.8	801	3200	408000	142	2180
G31	1.1	16500	76	14	13	9260	.0	35	91	51600	6080	8060
G32	6.6	3870	158	21	78	586	1.1	391	5490	307000	73	3630
G32 DUP	5.6	3390	158	22	47	304	.0	450	3500	350000	77	3200
G34	1.4	29900	27	24	17	21100	.0	35	244	60000	3850	10800
G34A	.9	15400	30	12	15	12600	.0	21	177	45800	2470	5570
G35	1.6	11600	30	25	43	4540	.2	437	2540	223000	2190	5280
G36	1.8	8910	30	24	31	30300	.2	130	1460	72700	558	4900
G37	1.1	14500	5	14	9	18200	.0	14	48	31500	1590	5150
G38	3.3	2650	876	1	68	2770	.0	16	640	50700	2530	946
G39	1.5	12600	161	11	42	7540	.0	27	643	81800	6650	7560
G40	2.5	13800	281	17	47	2460	.7	82	2470	140000	5960	8200
G41	2.6	12600	51800	17	158	3450	55.8	1960	4670	130000	3050	5760
G42	1.8	5940	46100	10	23	3200	29.5	793	646	98100	2210	1640
G43	8.1	3580	133000	10	131	3450	25.1	1550	3770	120000	1500	1020
G44	1.3	22200	268	18	17	6780	.0	29	128	63100	7260	11600
G45	.7	4630	12100	1	12	12200	1.3	884	59	24700	350	1550
G33	.9	17000	343	40	9	2850	.5	19	300	51700	989	7560

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
G01	0	5	5	51	0	0	0	30	0	0	.0	12
G02	5	78	191	21	137	0	29	27	2	0	22.2	37
G03	214	9	291	37	592	14	42	32	4	0	143.3	45
G04	191	8	902	31	651	15	8	50	3	7	141.4	36
G05	563	7	67	27	466	0	32	30	5	0	16.8	202
G06	315	8	53	89	44	0	132	24	8	0	1.8	53
G07	362	4	558	23	647	5	11	41	0	9	134.7	102
G08	214	4	654	14	855	9	15	34	1	9	103.9	152
G09	0	7	27	42	0	0	0	28	0	0	2.9	16
G10	213	6	605	24	810	15	34	59	0	2	163.9	37
G11	230	79	940	32	1120	12	35	70	1	2	170.8	30
G12	180	6	1850	23	910	6	0	111	0	10	193.1	10
G13	69	6	216	21	823	6	11	23	5	2	47.9	103
G14	211	10	1520	87	233	3	120	104	8	0	35.5	18
G15	322	7	1070	50	298	2	53	67	5	2	31.8	22
G16	256	21	231	59	0	0	0	68	0	0	51.6	42
G17	111	1	375	7	268	3	8	23	0	13	15.0	4
G18	182	8	292	35	510	10	13	43	4	2	147.1	28
G19	126	5	459	12	638	12	3	30	2	11	125.5	14
G20	266	5	1020	15	782	2	0	48	0	9	163.4	24
G21	0	9	47	68	6	0	0	32	3	0	9.0	5
G22	0	8	70	56	0	0	0	33	0	0	.0	18
G23	197	8	1290	29	705	13	26	57	2	11	31.1	12
G24	190	27	737	17	862	0	7	55	3	2	96.9	21
G25	247	5	1620	15	743	10	7	49	2	125	56.4	34
G26	0	16	242	95	0	0	0	34	0	0	5.2	10
G27	113	12	596	85	314	0	0	43	1	0	59.2	18
G28	291	7	714	16	232	0	0	50	0	0	240.9	21
G29	214	13	1120	29	677	33	4	43	0	8	133.6	45
G30	0	8	17	107	0	0	0	29	0	0	.0	4
G31	281	4	885	21	2090	8	0	45	10	6	84.7	32
G32	0	29	14	75	84	0	16	7	21	0	35.9	23
G32 DUP	0	8	16	83	0	0	10	6	21	0	10.7	9
G34	234	3	2870	16	2190	0	0	179	0	4	168.0	5
G34A	214	20	905	8	748	0	0	44	1	1	135.3	9
G35	94	27	426	95	351	0	12	27	16	0	50.8	24
G36	279	572	700	27	762	1	7	44	5	0	57.2	37
G37	194	4	972	6	1810	0	0	93	0	9	86.8	5
G38	20	5	133	2	135	0	0	6	0	0	34.6	2
G39	192	3	441	15	1170	0	0	26	0	0	107.3	20
G40	150	6	338	53	532	3	11	19	10	0	135.7	69
G41	127	8	598	68	617	12	57	29	14	0	95.6	42
G42	85	8	405	56	1260	10	33	33	11	0	73.7	18
G43	0	10	91	67	814	20	116	9	14	0	18.2	46
G44	324	5	1080	21	1150	0	0	58	0	2	166.5	20
G45	80	5	1140	13	767	0	11	30	3	2	26.8	4
G33	252	7	557	12	1760	23	11	22	10	1	94.6	28

(REPORT VALUES IN PPM)	BA	SE
G01	63	0
G02	51	0
G03	64	6
G04	72	11
G05	33	0
G06	43	11
G07	104	7
G08	66	2
G09	55	0
G10	126	9
G11	108	12
G12	162	2
G13	67	0
G14	72	36
G15	52	12
G16	69	0
G17	12	4
G18	71	2
G19	87	6
G20	197	0
G21	78	0
G22	78	0
G23	27	25
G24	33	0
G25	103	2
G26	52	0
G27	86	0
G28	109	0
G29	68	0
G30	67	0
G31	56	0
G32	49	1
G32 DUP	54	0
G34	127	0
G34A	36	0
G35	49	25
G36	19	0
G37	12	0
G38	80	0
G39	84	0
G40	75	11
G41	51	35
G42	83	27
G43	72	42
G44	101	0
G45	11	0
G33	38	26

COMPANY: FALCONBRIDGE LTD. All from K. George Grid — MIN-EN LABS ICP REPORT — (ACT:GE03B) PAGE 1 OF 3

PROJECT No: 095 — 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE No: 4-653S/P1+2

ATTENTION: L.UHER/J. HARDY — (604)980-5814 OR (604)988-4524 — *TYPE SOIL GEOCHEM* — DATE: AUGUST 7, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
84001	1.3	15100	0	16	4	32500	.2	18	26	44600	1800	7270
84002	.9	15800	0	20	5	85200	.9	16	39	36900	2090	6780
84003	.0	7440	3	15	0	156000	.8	8	29	18300	990	3310
84005	.9	25300	0	24	7	7150	.5	16	18	37800	1980	4920
84018 86	.9	38800	14	34	5	5920	1.4	20	32	43900	1430	5370
84020	.8	32100	8	31	9	5550	1.3	24	42	49200	2320	8260
84021	.9	34100	10	30	9	5580	.6	26	44	53500	2820	9650
84022	.6	29600	0	26	5	4540	.3	20	33	43400	2140	7050
84023	.5	29300	0	26	6	4710	.3	18	28	41200	2070	6400
84024	.8	32200	0	28	4	3850	.5	20	38	45500	2820	6600
84025	.3	23500	0	22	8	4810	.6	16	25	35700	1920	4490
84026	.7	34100	0	31	5	5160	.6	19	39	42500	2140	5880
84027	.9	35500	0	31	10	4790	.6	20	42	46300	2840	6140
84029	.6	25700	0	25	6	6230	.8	18	27	40100	2230	5800
84030	.6	30400	0	26	8	4510	.9	16	32	36900	1910	5080
84032	.7	33500	5	30	6	6120	1.1	18	34	40500	1510	5630
84033	.8	35500	4	30	6	4750	.3	17	36	41300	1390	5460
84051	1.1	40300	26	35	11	5200	.6	28	52	56600	3240	11100
84052	.8	31400	14	28	9	5470	.9	24	52	48900	2370	8410
84053	.8	31500	4	28	9	5160	1.1	25	50	51600	2870	8530
84054	.7	31400	7	28	9	4840	1.3	23	45	47900	2650	7660
84055	.5	30200	12	27	3	4660	.9	24	44	48400	2440	7520
84056	.4	30700	28	28	8	6290	2.3	27	54	50200	2030	6120
84058	.9	18400	10	18	6	22600	.3	18	43	38500	2550	7360
84059	.9	37600	0	35	10	4910	.4	22	48	47900	1890	6860
84060	.0	9460	10	18	2	143000	1.6	9	35	20500	1430	3800
84061	.7	26600	12	24	6	6850	.4	17	25	41200	2540	6010
84062	1.0	32500	15	30	9	7340	2.4	30	53	50200	2980	10100
84063	.9	35700	0	32	5	6160	.5	20	31	44100	1820	5970
84066	.7	32300	1	29	10	4780	.3	21	44	45800	2230	7000
84067	.8	30400	3	28	6	6920	1.0	19	35	40900	1650	5710
84068	.5	27600	0	24	6	4850	.3	18	31	41300	1780	6380
84069	.7	28500	0	25	10	6060	.8	22	37	47400	3540	7860
84070	.0	7170	2	12	1	165000	.9	8	27	17500	881	3480
84081	.7	33800	11	29	7	5270	.6	17	29	39300	1830	4910
84082	.4	31200	47	27	6	5910	3.4	20	32	40400	1490	5030
84251	.7	32400	0	30	7	3960	.6	16	37	37300	1330	4730
84252	.6	29100	0	25	7	4180	.7	14	20	33800	1400	3770
84253	.6	30800	0	26	7	3350	.6	17	42	38800	1460	5190
84254	.8	41900	0	34	8	4560	.2	13	20	31700	908	2430
84255	.4	28300	0	24	7	3320	.3	17	26	39400	1510	5350
84256	.7	26800	1	23	8	4030	.6	16	25	34900	1570	4710
84257	.8	36200	0	33	6	9150	.6	21	45	40100	1310	4870
84258	.9	31200	0	27	6	4790	.4	18	25	40100	1660	5420
84259	.7	35100	0	30	6	3910	.4	17	25	38800	2000	5010
84260	.8	38900	0	36	8	4900	.3	15	24	35300	1600	4120
84261	.9	36400	0	31	7	4390	.6	17	37	39100	2600	5240
84262	1.0	33000	3	28	7	5170	.4	16	34	37500	1930	4980
84263	.8	24800	2	55	5	4600	.1	18	28	43100	3760	6490
84264	.9	32000	0	29	7	7830	.4	20	48	37300	1100	5120
84265	.8	37300	0	32	8	5360	.7	15	44	35300	1770	3750
84266	.5	33500	0	29	6	5170	.4	14	34	33800	1290	3410
84267	.5	29400	0	25	7	3500	.6	14	21	33200	1090	3500
84268	.4	24500	0	22	6	5000	.6	19	27	40400	1850	5840
84269	.9	27100	0	24	4	4310	.4	20	27	45000	1850	6550
84270	.7	29000	0	26	7	4520	.2	17	21	39600	2090	5230
84271	.8	17500	1	17	9	15600	.2	19	27	51400	1930	6480
84272	1.1	32000	6	27	11	5330	.4	20	32	46000	2750	6470
84273	.9	24400	4	22	10	6540	.5	20	40	45000	3230	7270
84274	.8	29200	3	27	6	4950	.6	18	26	40100	2140	5070

84068? missing

COMPANY: PRECAMBRIDGE LTD.

PROJECT No: 095 — 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE No: 4-653S/P1+2

ATTENTION: L.UHER/J. HARDY — (604)980-5814 OR (604)988-4524 — *TYPE SOIL GEOCHEM* — DATE: AUGUST 7, 1984

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
84001	431	2	335	18	1070	9	1	88	4	21	90.7	72
84002	610	2	256	21	1350	16	1	111	3	10	63.1	92
84003	375	1	122	10	1130	14	5	109	1	0	24.2	67
84005	879	2	343	22	3630	8	0	79	2	8	53.8	205
84018 84088	899	5	343	29	2180	11	0	83	2	7	62.5	322
84020	1430	4	231	29	1990	54	0	90	3	4	87.9	187
84021	972	4	251	35	1970	25	0	89	4	3	91.7	194
84022	661	3	227	28	1650	7	0	70	3	0	76.8	115
84023	721	3	321	25	2180	16	0	71	3	0	63.8	150
84024	876	3	269	30	2130	10	0	71	3	0	72.0	147
84025	2200	3	313	23	3080	25	0	71	2	5	47.9	483
84026	876	3	376	25	2790	16	0	84	2	6	62.7	191
84027	1040	4	306	25	2860	19	0	86	3	1	69.5	156
84029	1130	3	253	27	2350	11	0	89	2	6	63.5	184
84030	1100	4	319	23	2970	8	0	70	2	5	54.4	186
84032	2360	4	286	25	2960	38	0	77	3	7	63.4	178
84033	627	3	378	24	2480	11	0	74	3	7	61.2	121
84051	1000	4	344	42	1320	37	0	89	5	8	90.4	238
84052	1230	4	297	31	1450	35	0	71	4	6	85.4	197
84053	1400	3	237	36	1240	51	1	78	4	4	87.2	221
84054	1330	4	216	31	1500	41	0	75	4	3	78.6	203
84055	1690	4	144	30	1450	52	3	75	4	3	71.6	229
84056	2610	4	199	34	2480	102	3	87	3	6	70.8	347
84058	520	3	388	22	1150	17	0	96	4	16	77.0	79
84059	1080	3	296	25	1610	3	0	81	4	4	80.4	144
84060	320	1	161	12	1280	59	4	163	2	0	32.0	122
84061	713	3	412	23	2820	5	0	82	4	5	66.7	213
84062	2690	4	352	47	1810	106	0	99	5	13	81.7	376
84063	1320	4	326	26	2740	4	0	93	3	12	66.5	159
84066	718	4	358	27	1510	13	0	74	4	4	86.4	119
84067	1210	3	279	25	3080	31	0	82	4	5	67.9	156
84068	709	3	233	24	2930	4	0	77	3	0	72.1	138
84069	948	3	285	32	1790	14	0	82	4	2	85.1	108
84070	238	1	112	12	755	23	4	128	2	0	25.2	80
84081	793	3	385	27	3190	3	0	72	3	1	97.2	205
84082 84083? →	1620	4	223	26	1750	124	2	82	3	2	64.0	382
84251	960	4	334	18	1360	18	0	69	3	1	61.9	91
84252	1110	3	307	19	5360	13	0	76	2	1	44.5	221
84253	539	3	226	21	1670	9	0	72	3	0	69.5	104
84254	474	3	411	15	4120	2	0	80	2	0	37.5	83
84255	1130	3	231	22	1950	8	0	59	3	0	67.2	110
84256	1170	3	287	25	3150	10	0	70	3	0	51.3	158
84257	1510	3	286	19	1600	13	0	102	3	9	60.8	114
84258	792	3	322	23	1960	9	0	70	3	2	57.5	155
84259	455	3	376	27	2200	4	0	70	3	0	53.0	145
84260	595	4	423	21	2140	10	0	73	3	1	45.8	125
84261	399	4	481	24	880	8	0	83	4	3	56.4	82
84262	499	4	461	23	1700	14	0	72	3	4	58.1	131
84263	423	3	350	27	1260	8	0	61	4	0	77.2	104
84264	1050	4	254	23	1010	12	0	84	3	5	61.4	103
84265	1050	3	403	19	3810	2	0	85	2	1	48.8	158
84266	885	3	369	16	3560	0	0	81	2	0	44.9	145
84267	1260	3	316	16	3630	10	0	61	2	0	46.4	241
84268	2080	3	309	27	1810	25	0	71	4	0	66.5	211
84269	737	3	311	24	2410	5	0	64	4	0	73.7	216
84270	697	3	384	23	2380	8	0	72	4	5	61.7	122
84271	505	3	397	22	1250	0	0	82	5	11	117.1	81
84272	550	3	383	28	1600	11	0	78	4	7	83.1	121
84273	583	3	432	25	1690	16	0	75	5	9	86.4	122
84274	934	3	306	26	2900	20	0	74	3	8	65.4	193

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-653S/P1+2

ATTENTION: L.UHER/J. HARDY | (604)980-5814 OR (604)988-4524 | *TYPE SOIL GEOCHEM* | DATE: AUGUST 7, 1984

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
84001	106	0	8
84002	137	0	5
84003	93	0	5
84005	412	0	20
84018	175	0	9
84020	232	0	10
84021	216	0	9
84022	185	0	11
84023	186	0	10
84024	267	0	10
84025	493	0	14
84026	338	0	30
84027	385	0	22
84029	329	0	17
84030	343	0	15
84032	283	0	10
84033	191	0	14
84051	186	0	25
84052	148	0	8
84053	181	0	12
84054	187	0	14
84055	215	0	15
84056	243	0	19
84058	119	0	2
84059	227	0	1
84060	98	0	1
84061	228	0	1
84062	307	0	2
84063	310	0	1
84066	207	0	5
84067	297	0	6
84068	284	0	4
84069	278	0	6
84070	73	0	10
84081	250	0	7
84082	236	0	5
84251	180	0	19
84252	508	0	22
84253	146	0	8
84254	211	0	6
84255	236	0	5
84256	426	0	7
84257	156	0	8
84258	167	0	9
84259	198	0	4
84260	203	0	8
84261	228	0	8
84262	233	0	7
84263	198	0	7
84264	117	0	3
84265	202	0	2
84266	208	0	1
84267	341	0	5
84268	318	0	1
84269	252	0	2
84270	233	0	2
84271	117	0	2
84272	229	0	1
84273	216	0	29
84274	320	0	1

NO LOCATION 84069?

84068? →

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03B) PAGE 1 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-653S/P3+4

ATTENTION: L.UHER/J. HARDY | (604)980-5814 OR (604)988-4524 | *TYPE SOIL GEOCHEM* | DATE: AUGUST 7, 1984

(REPORT VALUES IN PPM)

	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
84275	.9	20700	8	17	7	4890	.0	16	48	36100	4030	7120
84276	.8	28400	0	24	6	3960	.7	19	31	39600	2960	6160
84277	.4	23100	0	20	3	3660	.6	13	17	29600	1850	4080
84278	.8	26700	0	22	5	3740	.4	16	36	36400	3100	5940
84279	.7	26700	0	23	7	4580	1.1	17	33	36100	2520	5480
84280	.8	33800	0	27	6	3280	.3	17	38	38600	2380	5670
84281	.7	27000	0	22	5	3090	.7	14	30	31600	1900	4510
84282	.8	30000	0	24	6	3470	.4	18	42	40500	2920	6640
84297	.0	15300	0	29	29	2010	2.7	504	948	266000	421	2850
84298	.9	47600	0	39	12	2820	1.5	79	824	70000	490	4000
84300	.4	29700	0	24	5	3100	.5	15	34	33200	1360	4140
84301	.5	30600	0	25	5	2110	.8	20	35	39900	726	5500
84302	.3	31700	2	26	5	1520	.7	19	24	37500	585	4720
84303	.0	33800	2	28	6	1260	.5	19	34	41300	689	5800
84304	.5	42000	7	33	6	1270	.8	22	42	41300	725	5750
84305	.3	31200	2	26	5	2100	.7	21	35	40400	627	5920
84306	.3	25200	0	21	4	884	.8	18	35	37500	517	3340
84307	.7	33900	0	26	5	727	.7	15	25	35600	535	2630
84308	.4	28900	0	23	4	1080	.8	15	22	34900	599	2550
84309	.6	41700	0	31	7	613	.4	13	24	32700	498	3060
84310	.3	35900	0	28	5	777	.7	16	32	39900	703	5290
84313	.9	36500	0	29	7	674	.7	19	41	38300	577	4060
84315	.5	28900	0	24	6	967	1.1	21	36	41200	597	4150
84316	.7	33600	0	26	5	817	.4	17	22	34900	520	3560
84317	.4	34100	0	28	6	1320	.7	18	23	42500	752	4730
84493	.6	28200	0	24	7	3800	.8	18	27	38900	2100	5330
84494	.6	23900	1	28	6	4000	.6	17	34	37200	2170	5810
84495	.5	23000	0	19	5	3380	.9	16	30	34800	1950	5380
84496	.4	24100	5	21	5	5080	1.3	19	37	35100	1950	5700
84497	.7	24200	10	24	6	9740	1.9	19	58	32400	2520	5660
84498	.8	32000	6	29	9	6710	1.3	24	32	44400	2840	7520
84499	.8	29700	4	27	7	4200	1.0	20	25	39600	2140	5400
84500	1.3	35000	0	31	10	5890	.8	20	48	43600	1610	6860
84326	.9	40200	0	33	9	1490	.8	22	35	44900	894	4880
84327	.8	28900	0	25	6	1280	1.7	20	26	41500	770	3550
84328	.8	32100	0	32	6	1420	.8	20	29	43300	729	4480
84329	1.3	33200	0	30	11	6110	.8	25	40	57100	1500	10400
84330	.5	32400	0	27	6	1500	.5	17	23	37300	730	3930
84331	.2	28100	0	23	5	1310	.6	15	22	36100	577	3670
84332	.4	28500	0	24	5	1640	.6	19	48	43300	660	5530
84333	.6	26300	0	23	6	2670	.4	22	36	41000	863	4520
84334	.1	23900	17	22	5	1850	.9	26	42	44600	902	4530
84311	.2	29400	0	26	5	1200	.4	18	30	43900	827	4260

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
84275	353	3	265	24	1120	8	0	52	7	0	75.3	73
84276	745	3	186	27	2270	18	0	58	7	0	66.2	175
84277	637	2	230	20	2090	3	0	52	4	0	45.9	193
84278	311	2	314	23	1290	4	0	60	6	0	66.9	95
84279	934	4	244	27	2100	27	0	61	5	0	63.4	213
84280	342	3	292	24	1640	10	0	59	5	0	63.4	112
84281	372	2	340	19	2060	5	0	52	4	0	51.8	107
84282	442	3	369	27	1900	9	0	60	6	0	67.8	170
84297	27400	18	33	103	704	0	16	71	6	10	33.1	110
84298	3420	11	106	42	1390	3	7	82	6	0	31.0	107
84300	800	3	294	21	3020	12	0	55	4	0	48.2	157
84301	1150	4	115	24	884	17	0	44	5	0	56.6	118
84302	1840	4	113	24	1610	6	0	44	3	0	51.4	138
84303	1580	4	101	25	1700	7	0	44	5	0	59.1	123
84304	928	5	92	25	2110	17	0	46	5	0	58.0	142
84305	1910	4	89	20	1290	10	0	42	4	0	55.6	133
84306	1290	5	111	22	945	5	0	31	3	0	40.9	144
84307	663	4	126	18	1200	5	0	36	2	0	45.5	159
84308	1030	3	137	17	1200	5	0	34	2	0	43.8	169
84309	485	4	170	14	983	0	0	42	3	0	43.8	80
84310	406	4	117	20	1130	0	0	41	5	0	57.9	103
84313	993	6	122	34	1300	2	0	40	4	0	45.9	190
84315	1780	5	101	29	1170	7	0	36	4	0	52.8	226
84316	1300	4	145	25	1440	0	0	36	3	0	47.9	168
84317	1430	4	143	25	1010	4	0	42	3	0	64.7	131
84493	725	3	340	24	1660	18	0	59	5	0	68.0	138
84494	733	3	335	22	1050	27	0	60	6	0	69.1	136
84495	765	3	273	19	1290	53	0	53	5	0	61.6	141
84496	1080	3	243	22	1160	26	0	71	4	0	67.9	167
84497	1130	2	303	23	1030	60	0	95	4	1	63.5	185
84498	1290	3	402	29	1860	24	0	89	5	3	76.6	185
84499	836	3	403	27	1860	11	0	68	4	2	63.4	212
84500	676	3	531	26	797	22	0	81	4	6	74.7	176
84326	1130	5	199	30	1240	6	0	51	3	0	66.1	165
84327	2890	5	172	25	2010	11	2	38	2	5	52.4	266
84328	1240	5	163	22	778	10	1	45	2	1	60.8	165
84329	1480	5	261	38	701	10	0	91	5	5	72.6	153
84330	1050	4	130	18	1610	15	0	40	2	0	54.4	130
84331	1080	3	114	16	1240	9	0	37	2	0	52.3	104
84332	1470	4	138	24	976	8	0	42	3	0	67.5	104
84333	1890	3	141	25	1160	20	0	47	3	0	59.8	143
84334	3020	3	125	22	1070	15	2	37	3	0	56.5	191
84311	2850	4	138	20	2270	7	0	38	2	0	65.9	162

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
84275	130	0	2
84276	259	0	1
84277	305	0	1
84278	167	0	1
84279	219	0	1
84280	181	0	5
84281	181	0	26
84282	275	0	2
84297 ← ferrocrete	1020	0	78
84298	348	0	85
84300	308	0	1
84301	121	0	1
84302	173	0	5
84303	159	0	1
84304	129	0	1
84305	113	0	3
84306	93	0	1
84307	85	0	4
84308	105	0	3
84309	65	0	2
84310	76	0	5
84313	82	0	3
84315	97	0	2
84316	88	0	1
84317	102	0	30
84493	166	0	4
84494	172	0	5
84495	158	0	45
84496	156	0	8
84497 (97)!	135	0	7
84498	199	0	5
84499	204	0	9
84500	143	0	20
84326	123	0	19
84327	136	0	16
84328	107	0	19
84329	231	0	15
84330	106	0	14
84331	113	0	10
84332	104	0	12
84333	177	0	10
84334	198	0	10
84311	161	0	10

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03B) PAGE 1 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-698

ATTENTION: L. UHER/J.HARDY | (604)980-5814 OR (604)988-4524 | *TYPE SOIL GEOCHEM* | DATE: AUGUST 11, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
84351	.6	19100	13	18	6	5080	.2	26	86	53600	684	9090
84352	.8	19400	14	18	6	5490	.2	22	45	44900	752	8040
84353	.6	22800	6	22	5	7360	1.1	23	93	46600	647	7160
84354	.7	20300	12	19	6	4550	.5	22	100	44900	668	8380
84355	.5	26800	8	25	6	7040	.5	23	53	46700	972	8660
84356	.8	25500	9	23	6	7460	.4	21	50	44900	864	8040
84357	.6	25300	10	24	6	4700	.1	24	76	47800	785	9430
84358	1.0	26400	0	26	8	8620	.3	27	56	57400	1130	11200
84359	1.1	30500	0	31	11	10500	1.6	28	70	61100	1090	10100
84360	1.2	29000	6	30	7	9140	6.3	28	67	58600	939	9930
84361	1.0	25900	8	28	9	13500	.6	24	64	53800	866	8280
84362	1.1	30600	6	31	11	10700	.1	29	67	60900	938	10500
84363	1.3	25900	8	27	9	9970	.8	24	54	55900	787	8570
84364	1.3	27800	11	29	7	10700	11.3	28	86	59300	895	10500
84365	1.2	28900	0	29	11	8440	.3	27	59	58300	734	9540
84366 40MESH	1.0	20600	27	21	5	6280	3.4	22	72	43700	602	7620
84367	.9	24800	18	23	7	7360	1.3	24	62	48900	1340	9910
84368	.6	22900	20	22	5	5930	1.8	25	54	48500	786	9900
84369	.5	23700	21	22	6	5370	.9	28	66	48900	486	15800

(REPORT VALUES IN PPM)		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
84351		676	3	86	23	1090	9	4	59	6	2	81.5	67
84352		654	3	92	24	890	11	2	59	5	2	71.4	95
84353		1320	4	115	24	1450	36	5	70	4	3	68.1	117
84354		716	4	83	22	928	12	4	57	5	2	73.5	88
84355		1520	4	138	20	937	10	3	91	4	3	78.4	71
84356		794	4	131	23	1030	8	4	71	4	2	73.8	99
84357		1060	4	115	27	811	17	4	59	5	2	82.8	73
84358		760	3	212	34	1090	7	2	71	6	3	111.4	142
84359		855	5	216	36	1130	7	2	84	5	4	129.1	146
84360		864	6	195	45	1120	6	4	78	5	4	142.3	487
84361		839	3	163	21	1100	18	2	93	4	5	124.4	111
84362		876	4	166	31	962	15	3	87	5	5	139.8	121
84363		722	3	173	28	994	17	2	82	4	5	138.2	144
84364		903	9	177	65	1220	14	6	79	6	4	132.5	815
84365		761	4	153	35	996	5	1	60	5	4	126.9	125
84366	40MESH	1180	7	79	55	1130	19	9	62	5	5	57.9	239
84367		839	4	95	31	988	13	5	68	6	4	87.4	150
84368		1070	4	79	29	961	16	6	66	6	4	79.9	143
84369		782	4	70	36	1030	18	6	47	8	2	91.8	83

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
84351	85	0	6
84352	87	0	9
84353	152	0	15
84354	88	0	4
84355	135	0	3
84356	115	0	1
84357	118	0	11
84358	98	0	3
84359	124	0	7
84360	134	0	4
84361	78	0	2
84362	102	0	2
84363	83	0	1
84364	139	0	1
84365	112	0	6
84366 40MESH	442	0	1
84367	140	0	2
84368	146	0	3
84369	62	0	2

SILTS

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GEO3B) PAGE 1 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-7665

ATTENTION: L. UHER | (604)980-5814 OR (604)988-4524 | *TYPE SILT GEOCHEM* | DATE: AUGUST 21, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
84370	.5	22200	35	21	6	5210	.0	31	99	58800	938	10400
84371	.3	24600	49	25	5	8680	1.0	38	106	66600	899	10800
84372	.8	25500	48	25	5	7120	.9	37	114	64600	1100	13500
84373	.4	25700	58	23	5	7130	.2	25	62	49400	828	9030
84374	.6	21800	33	22	7	8070	.0	24	55	60800	610	9470

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
84370	1090	3	86	28	998	2	4	65	0	0	101.9	104
84371	2600	4	95	30	1210	10	7	67	1	0	101.0	223
84372	2140	5	99	34	1410	48	7	65	0	0	117.0	296
84373	1090	3	111	29	1110	13	8	59	1	0	68.4	109
84374	699	2	122	26	1040	4	0	48	0	0	118.6	104

COMPANY: FALCONBRIDGE LTD.
PROJECT No: 095
ATTENTION: L. UHER

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE No: 4-7668
TYPE SILT GEOCHEM DATE: AUGUST 21, 1984

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
84370	139	0	10
84371	233	0	19
84372	163	0	10
84373	160	0	1
84374	73	0	1

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GEO3B) PAGE 1 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-844

ATTENTION: L. UHER/J. HARDY | (604)980-5814 OR (604)988-4524 | *TYPE SOIL GEOCHEM* | DATE: AUGUST 25, 1984

(REPORT VALUES IN PPM)		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
81053		1.3	28500	186	28	10	7020	.4	34	61	73000	1130	8460
81054		.6	25500	64	26	8	3470	.0	32	61	70100	944	7760
81055		.8	31500	16	29	9	1810	.0	36	87	76300	1080	6570
81056		.7	29400	16	27	8	2090	.7	36	83	71700	900	8460
81057		.9	31600	12	28	9	2970	.2	30	67	65800	831	7810
81058		.7	35300	15	32	9	3370	.0	34	68	76300	1060	10100
81091		.8	33800	9	34	11	3800	2.2	49	149	93400	1230	7600
81092		.8	29100	34	26	10	8210	2.4	28	73	55900	1040	9430
81093		.9	34300	14	30	10	7640	.2	27	63	60800	875	7010
81094		.9	31800	26	29	9	17400	.6	25	73	51800	977	9390
81059		1.1	37000	5	29	5	1470	.0	18	34	55300	855	6230
81060		.9	41800	3	32	6	1230	.0	16	36	50500	724	5630
81061		.9	28600	11	23	6	1270	.0	13	29	45100	657	4690
81062	20M	1.1	43000	13	34	6	9740	.5	16	79	47100	706	5930
81063		.9	27200	10	22	5	1830	.0	17	42	48100	764	5840
81064		1.1	29400	9	27	7	3380	.0	22	45	61000	1050	7700
81065		1.3	29600	9	25	7	1730	.0	17	38	50800	733	5750
81066		1.9	35500	5	28	7	1230	.0	16	29	50800	668	4040
81067		1.5	31500	2	25	8	1100	.0	17	28	56900	707	4160
81068		1.4	30700	6	25	6	8330	.9	30	102	51300	885	6610
81069		1.2	27700	10	24	7	2240	.2	28	56	57800	861	5860

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
81053	2320	4	167	28	1850	44	0	68	3	0	94.3	214
81054	1670	4	114	23	1350	25	0	49	4	0	97.8	163
81055	2110	6	114	28	1670	15	0	42	4	0	75.0	192
81056	1880	4	95	29	1240	40	0	47	4	0	88.7	223
81057	1840	4	124	24	1960	9	0	51	2	0	91.0	164
81058	3170	4	122	29	1640	29	0	59	3	0	113.6	174
81091	2460	5	133	32	2010	57	3	62	5	0	93.7	778
81092	2740	4	105	26	1880	95	5	74	4	8	91.8	205
81093	2210	4	143	22	1710	38	1	64	1	7	82.7	145
81094	1580	4	153	24	1880	40	4	104	3	9	80.6	87
81059	528	3	144	17	1390	9	0	45	1	0	73.7	84
81060	702	4	140	16	1650	1	0	45	1	0	71.9	83
81061	244	3	124	12	738	8	0	36	0	0	63.9	59
81062 20M	502	3	211	18	1490	7	0	81	1	0	61.9	66
81063	523	3	136	18	1030	14	0	38	1	0	68.2	79
81064	1300	3	139	25	1790	12	0	49	0	0	77.6	120
81065	903	3	137	13	1790	10	0	36	1	0	70.3	111
81066	1170	3	154	12	2670	6	0	37	0	0	65.1	143
81067	933	3	169	14	2740	10	0	34	1	0	70.1	110
81068	2290	3	198	32	1580	22	0	74	2	0	67.6	168
81069	1070	3	153	21	1970	14	0	39	1	0	75.5	144

(REPORT VALUES IN PPM)		BA	SE	AU-PPB
B1053		317	0	2
B1054		322	0	4
B1055		232	0	9
B1056		211	0	108
B1057		292	0	17
B1058		346	0	5
B1091		441	0	18
B1092		272	0	1
B1093		254	0	1
B1094		143	0	4
B1059		128	0	3
B1060		92	0	2
B1061		90	0	1
B1062	20M	185	0	8
B1063		128	0	5
B1064		199	0	2
B1065		94	0	6
B1066		121	0	1
B1067		101	0	1
B1068		162	0	7
B1069		125	0	3

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03B) PAGE 1 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-8205/P1+2

ATTENTION: L.UHER/J.HARDY | (604)980-5814 OR (604)988-4524 | *TYPE SOIL GEOCHEM* | DATE: AUGUST 25, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
81110	1.0	28400	17	24	6	3590	.0	23	54	52500	898	7610
81111	.9	27600	15	22	5	1300	.0	17	34	42100	603	4760
81112	1.1	37300	2	30	7	971	.0	18	26	47000	623	4160
81113	1.0	28900	16	24	6	1490	.0	16	21	42900	891	3330
81114	1.3	29400	22	26	7	4190	.8	19	39	44000	1180	6200
81115	1.1	28500	19	25	5	6110	.9	20	40	39700	1000	6220
81116	.9	26500	19	23	5	5270	.4	16	32	39300	962	4980
81117	.7	26700	19	22	5	9490	.2	13	28	32100	810	4670
81118	.7	26300	13	23	5	4470	.5	46	40	64100	693	6010
81119	1.0	30800	25	25	5	7690	1.4	22	72	37900	879	6110
81120	1.6	36600	33	30	5	4670	.6	19	59	38700	1240	6910
81121	1.2	37800	26	32	7	3530	.6	27	92	55700	1300	8590
81122	1.2	33400	17	29	7	2550	.1	24	77	56800	1100	8380
81123	1.9	34700	26	28	6	5980	.5	19	94	43900	973	7350
81124	1.2	33500	22	28	6	4540	.4	20	69	47600	1020	9170
81125	1.3	41400	22	34	5	4340	.6	22	79	53600	1300	9100
81126	1.7	41900	25	34	6	3940	.5	17	80	50000	1240	8150
81127	1.1	34000	17	27	5	1680	.2	20	60	46600	1090	6980
81128	1.4	35700	19	29	6	2640	.2	20	52	50900	1110	8030
81129	.5	25400	20	21	3	1040	.2	14	26	37200	877	4600
81130	.5	26200	19	22	4	1640	.1	11	20	33800	990	3500
81131	.7	27700	16	23	4	3580	.3	15	29	36000	816	4760
81132	.7	22900	17	20	5	4290	.0	14	24	34200	775	3990
81133	1.2	47200	5	35	6	843	.1	14	21	37800	581	2670
81134	1.3	30800	13	26	7	1580	.0	18	28	45500	745	5030
81135	1.2	31500	12	27	7	2490	.1	18	39	49300	825	5570
81136	1.0	34100	12	27	6	1630	.0	21	55	50900	741	6470
81137	1.1	40400	1	34	5	963	.0	21	53	54800	747	3680
81138	.7	25000	9	22	6	1800	.0	19	36	53100	792	5940
81139	1.0	30800	14	25	6	1260	.1	20	38	48100	729	4520
81140	1.1	29500	18	24	6	1800	.0	19	34	49700	786	5710
81141	.9	31700	11	29	6	1310	.0	15	25	44300	761	4580
81142	1.1	40000	20	32	7	1260	.0	18	32	47600	1040	6160
81143	1.1	32800	18	27	7	1420	.0	17	26	46400	809	5920
81144	1.0	23800	26	21	2	1000	.4	11	17	33300	856	3570
81145	1.2	33500	15	28	7	1290	.1	18	31	46600	825	4750
81146	1.4	31700	14	25	8	1120	.0	16	32	44900	750	4820
81147	.9	25900	20	21	6	1260	.4	15	32	39600	637	5240
81148	.8	31000	19	25	6	2010	.5	17	43	41800	934	6900
81149	1.6	19200	31	15	3	5560	1.0	7	37	14000	385	3160
81150	1.5	31200	23	27	7	3590	.1	23	67	49300	983	8220
81165	1.2	35400	10	28	7	896	.0	16	27	49700	602	3030
81166	.9	30500	19	25	8	1460	.0	20	38	48700	786	4520
81167	.9	26200	21	23	6	1270	.3	18	31	48400	781	5540
81168	1.1	33400	9	28	8	3800	.2	24	39	51900	792	6670
81169	1.0	31500	7	25	6	1460	.0	13	18	40900	728	3100
81170	1.0	26100	9	23	6	1810	.4	14	19	42900	773	3640
81171	1.2	29100	13	25	7	1920	.0	16	24	46100	887	5120
81172	1.1	28400	10	24	7	942	.0	12	15	40900	539	2690
81173	1.2	33700	11	27	8	923	.0	13	23	41400	545	3550
81174	.9	24700	21	22	6	2590	.1	23	69	51500	904	10100
81175	1.2	28900	27	24	6	3250	.1	14	40	38400	921	6630
81176	1.2	9830	27	9	2	7080	.4	4	18	14300	278	959
81177	1.4	26900	28	24	6	8660	1.3	19	68	37800	747	6650
81178	1.1	26600	19	24	7	3310	.3	21	61	47000	810	8700
81179	1.2	31100	25	27	7	2900	.7	25	72	56800	1270	9190
81180	1.6	32800	25	28	7	4950	1.1	25	90	49600	1140	8320
81181	1.3	33100	14	30	8	5210	.0	23	83	59100	1350	11400
81182	1.3	39500	6	34	13	4840	.9	60	192	85400	2230	18400
81183	1.3	31100	8	29	8	4730	.0	30	89	60300	1220	9030

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
81110	925	5	123	19	1070	25	0	55	2	0	82.3	94
81111	1430	4	142	14	947	19	0	38	0	0	61.9	64
81112	678	4	213	15	1360	13	0	39	1	0	65.1	44
81113	1080	3	159	14	2400	27	0	34	1	0	59.6	84
81114	1500	3	167	26	1110	37	0	60	1	6	68.1	79
81115	1800	3	183	35	1380	25	1	73	2	6	62.6	90
81116	1100	3	146	17	1090	24	0	58	1	1	55.9	104
81117	1160	4	184	15	992	20	0	123	1	10	49.3	56
81118	2000	9	124	22	770	22	0	64	5	0	72.5	70
81119	1980	5	157	27	1310	32	1	72	2	4	55.5	117
81120	1900	7	161	26	1670	25	3	67	2	6	68.9	78
81121	2280	6	148	29	1170	28	1	69	3	0	94.2	88
81122	1120	5	142	27	1330	23	0	55	2	0	88.1	114
81123	1340	5	151	26	1540	24	1	75	3	1	76.8	83
81124	994	4	136	27	1240	22	0	68	3	0	82.8	100
81125	969	4	173	30	1220	22	0	72	3	0	88.2	106
81126	606	4	184	29	1290	25	0	70	2	0	79.7	101
81127	744	5	164	23	887	23	0	50	1	0	70.3	89
81128	1260	5	151	25	1130	27	0	59	2	0	78.7	93
81129	335	3	116	13	946	18	0	37	2	0	55.5	47
81130	1090	3	108	12	1550	21	0	33	1	0	54.2	80
81131	1250	3	120	17	817	19	0	49	2	1	52.4	53
81132	2170	3	141	16	952	30	0	51	1	4	47.7	64
81133	834	4	213	14	1870	15	0	46	0	1	44.6	60
81134	664	3	165	21	1450	16	0	40	1	0	64.4	85
81135	997	4	178	19	1640	30	0	47	1	0	72.8	90
81136	852	4	166	21	1440	18	0	46	2	0	72.2	76
81137	758	4	242	15	1170	15	0	42	1	0	70.3	56
81138	1980	3	134	18	936	23	0	40	1	0	85.0	84
81139	1390	4	157	16	1130	16	0	38	1	0	69.6	86
81140	615	3	159	19	1390	19	0	40	2	0	67.5	88
81141	901	4	136	15	1600	13	0	38	1	0	62.6	66
81142	562	4	146	22	1240	10	1	52	3	4	62.6	74
81143	964	3	165	19	1300	5	0	45	2	1	65.3	75
81144	221	3	99	12	475	14	3	34	3	11	49.9	54
81145	1180	4	183	17	2140	6	0	41	1	0	63.1	98
81146	936	4	174	16	1110	6	0	41	1	3	60.9	61
81147	821	4	117	15	1260	9	0	37	1	4	56.6	73
81148	947	4	150	21	799	15	0	52	1	0	66.8	83
81149	162	3	139	12	2030	13	2	52	1	12	33.9	46
81150	1140	4	146	24	1270	15	1	60	2	4	79.2	111
81165	573	3	201	11	919	10	0	40	1	0	68.8	51
81166	2470	4	177	22	2260	29	0	40	2	6	62.3	103
81167	641	3	144	18	824	25	0	38	2	0	70.7	85
81168	1800	4	141	23	1170	15	0	52	2	2	71.5	105
81169	564	3	162	12	1530	13	0	36	1	0	54.0	74
81170	1070	3	170	14	1390	13	0	36	0	7	59.8	89
81171	295	3	157	16	682	12	0	44	2	0	65.8	64
81172	272	3	169	8	873	8	0	34	1	0	56.4	54
81173	472	3	178	11	1010	6	0	39	1	0	55.7	64
81174	716	3	73	24	853	13	1	51	4	1	77.4	82
81175	518	3	160	22	1150	15	1	57	2	4	63.2	69
81176	114	2	113	7	1920	15	2	57	2	12	17.7	15
81177	934	4	166	23	1570	36	3	80	2	9	55.9	122
81178	650	4	103	22	1050	21	1	55	2	1	77.9	99
81179	953	4	102	26	1470	6	0	56	2	0	87.5	116
81180	1490	5	139	28	1760	28	3	65	2	3	79.7	143
81181	867	4	116	28	1280	7	0	79	2	0	92.9	98
81182	2410	6	93	63	1350	11	7	73	3	0	94.9	92
81183	1070	4	112	26	1780	14	0	71	2	0	88.2	102

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
81110	229	0	6
81111	124	0	3
81112	97	0	1
81113	115	0	4
81114	310	0	7
81115	405	0	3
81116	287	0	2
81117	362	0	1
81118	195	0	3
81119	208	0	5
81120	183	0	2
81121	195	0	4
81122	152	0	6
81123	220	0	12
81124	192	0	1
81125	210	0	4
81126	195	0	2
81127	152	0	5
81128	198	0	1
81129	121	0	4
81130	183	0	9
81131	220	0	164
81132	315	0	7
81133	102	0	8
81134	164	0	3
81135	157	0	1
81136	148	0	2
81137	124	0	5
81138	167	0	1
81139	178	0	1
81140	158	0	2
81141	146	0	1
81142	154	0	1
81143	141	0	1
81144	147	0	1
81145	120	0	1
81146	97	0	3
81147	91	0	4
81148	175	0	1
81149	177	0	1
81150	186	0	4
81165	99	0	5
81166	215	0	22
81167	137	0	3
81168	194	0	1
81169	115	0	1
81170	149	0	6
81171	157	0	3
81172	75	0	1
81173	85	0	1
81174	127	0	4
81175	233	0	1
81176	198	0	2
81177	183	0	15
81178	195	0	3
81179	152	0	5
81180	215	0	4
81181	192	0	8
→ 81182	443	0	1530
81183	166	0	54

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03B) PAGE 1 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-820/P3&4

ATTENTION: L. UHER/J. HARDY | (604)980-5814 OR (604)988-4524 | *TYPE SOIL GEOCHEM* | DATE: AUGUST 25, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
81184	1.2	25500	13	23	7	5340	.9	25	96	45500	1030	7600
81185	1.3	36700	7	31	8	2710	.5	27	76	57700	1060	7320
81186	1.5	30400	9	27	8	2630	.0	24	62	54200	1150	7830
81187	1.5	30800	10	27	8	2480	.1	23	65	55400	1290	8430
81200 40M	2.1	20500	16	18	4	8800	.5	6	39	13400	678	2500
81201	.7	25500	17	23	7	4150	.4	23	77	43700	892	6000
81202	1.0	21300	26	20	6	10000	1.4	21	48	39900	856	6760
81203	.8	27200	30	23	6	2080	.5	25	60	47500	908	7840
81204	.9	25600	13	22	6	1280	1.0	21	37	43900	773	5950
81205	.9	29500	14	25	6	1900	.8	22	42	44000	888	6720
81206	1.0	31200	13	26	7	2550	.1	25	45	49700	1060	7910
81207	1.0	28300	17	24	7	2350	.6	24	27	50600	930	6760
81208	1.2	28100	15	24	6	3990	.7	21	40	42300	869	5980
81209	1.7	35300	19	30	6	6030	2.1	25	58	50400	1120	7080
81210	1.4	33600	18	28	6	2700	1.2	29	68	57100	966	5730
81211	1.2	29300	20	25	7	3900	.6	24	45	48400	971	5630
81212	1.0	32000	14	28	6	3530	.9	23	38	49300	1060	6140
81213	1.0	29100	14	25	7	5650	1.0	21	27	44900	874	4840
81214	1.1	35000	31	29	5	2230	.8	24	43	54500	1290	7320
81215	.7	30800	11	27	5	2590	.1	25	46	52700	1080	7580
81216	1.4	29400	5	25	6	11100	.8	26	53	47300	911	8430
81217	1.1	26500	11	22	6	5800	.9	22	48	43900	707	6000
81218	.6	25000	34	21	5	3900	1.0	29	57	51000	931	11000
81219	1.3	33500	20	27	7	10100	2.3	24	58	43500	808	7400
81220	.9	31300	20	27	7	10200	2.1	26	62	46700	1040	8470
81221	1.2	30700	22	27	6	9810	1.2	28	60	50900	1140	8510
81222	1.2	37800	13	31	7	3250	.6	25	65	53700	1470	8190
81223	.9	32700	15	27	6	2820	.4	24	66	50900	1280	7400
81224	.6	25300	25	22	6	3430	.7	25	47	43500	1290	7900
81225	.6	26400	25	21	5	1460	.6	23	62	47300	934	10600
81226	.9	31700	15	24	4	1520	1.1	21	40	43200	662	6300
81227	.6	26600	17	21	5	2010	.7	20	26	43600	756	5610
81228	.5	27800	23	22	5	1310	1.2	23	35	47200	750	6830
81229	.8	30700	20	24	4	1740	.7	23	54	47000	851	7890
81230	.6	26900	14	22	4	2960	.7	25	47	50900	1040	7830
81231	.7	28200	17	23	4	1580	.6	24	65	50700	862	8300
81232	.9	37200	5	29	5	1280	.0	24	59	52200	1010	6030
81233	.5	32800	18	27	5	1970	.0	24	39	54600	1350	7620
81234	.6	30800	26	27	6	2630	.2	28	90	59800	1040	10900
81235	.4	34000	11	28	4	1490	.0	27	69	54900	1110	10500
81236	.3	35700	0	28	5	1670	.0	27	66	54900	1090	8940
81237	.1	29900	0	23	4	1810	.5	24	49	47300	1160	8090
81238	.0	26900	12	22	3	1370	.5	28	64	47600	906	8440
81239	.3	28000	3	23	4	2030	.2	28	48	55700	1020	10500
81240	.5	24700	0	19	5	3490	.0	32	57	59500	1690	17300
81241	.9	35600	6	28	8	3860	.0	39	86	88900	1200	16600
81242	.7	36500	0	29	8	3870	.1	36	54	78100	1280	15400
81243	.3	39100	5	30	8	2590	.6	35	49	74800	1160	14400
81244	.2	35800	7	27	7	2580	.5	28	44	64700	1040	9820
81245	.5	36700	9	27	5	2290	1.5	25	50	58400	930	6690
81246	.7	40800	0	30	5	4040	.8	24	93	59800	827	7700
81247	.6	38000	0	28	6	1800	1.0	28	68	63400	955	7100

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
81184	1450	4	118	26	1410	38	3	59	3	1	71.7	81
81185	1130	5	117	24	2070	11	0	57	3	0	87.9	119
81186	1350	4	117	23	1400	16	0	54	2	0	83.4	110
81187	1340	4	118	27	1330	20	0	54	2	0	85.6	133
81200 40M	277	3	85	14	2670	20	3	66	2	5	21.6	12
81201	1810	4	116	27	1660	42	2	50	3	2	56.5	181
81202	1790	3	100	30	1740	60	2	70	3	3	48.4	174
81203	2040	5	90	33	1220	42	5	42	4	2	62.9	147
81204	1690	4	104	26	2120	34	1	31	3	0	57.3	134
81205	1690	4	113	31	1970	27	1	37	3	1	57.3	148
81206	1160	4	130	33	1600	27	1	44	3	1	60.2	169
81207	1340	4	140	26	2270	22	1	38	3	1	61.5	230
81208	1050	4	127	25	1080	26	1	49	4	3	49.2	154
81209	1350	4	168	30	1260	19	1	66	4	7	54.3	184
81210	1220	5	149	31	1050	18	1	50	6	1	63.6	186
81211	1580	5	129	27	956	29	2	48	3	1	55.6	186
81212	1330	4	135	28	1070	25	1	50	4	2	58.1	203
81213	2370	4	156	23	2220	30	1	53	3	2	48.9	257
81214	1220	5	129	30	2440	39	1	41	5	0	64.7	311
81215	1470	4	130	32	1580	26	0	44	3	0	63.3	201
81216	2100	3	226	38	963	16	0	85	2	2	51.2	147
81217	1330	4	124	28	1030	21	0	58	3	0	53.8	176
81218	1070	4	86	40	534	30	5	52	8	0	67.7	128
81219	1490	4	219	35	1890	27	3	85	3	5	50.3	315
81220	1810	4	194	37	2180	29	2	81	3	3	56.5	312
81221	1930	4	228	39	1840	25	2	85	3	4	59.4	173
81222	958	5	187	33	1750	18	0	56	4	1	66.5	153
81223	1630	4	130	29	2190	22	1	45	4	0	67.5	179
81224	1680	4	97	32	2500	31	5	42	4	2	57.3	165
81225	775	5	64	38	998	25	4	36	6	0	61.9	97
81226	1160	4	85	30	2310	31	0	34	3	0	54.0	138
81227	2150	4	102	25	2420	31	0	33	2	0	56.0	164
81228	2650	4	93	28	2100	33	1	32	4	0	67.0	154
81229	884	4	88	28	2060	29	0	37	4	0	66.2	119
81230	1660	4	89	29	1980	37	0	40	3	0	68.9	147
81231	1160	4	73	29	1210	25	1	37	5	0	68.1	103
81232	936	4	131	25	2240	29	0	39	2	0	53.0	117
81233	1740	4	141	41	1880	37	0	41	4	0	58.3	154
81234	1210	5	103	58	1460	47	0	45	5	0	69.5	152
81235	1800	4	125	48	1590	28	0	40	3	0	67.4	114
81236	2110	4	143	44	1600	25	0	41	2	0	62.7	116
81237	1780	3	128	43	1340	44	0	34	1	0	55.3	157
81238	1590	3	104	68	1060	25	0	38	2	0	63.1	103
81239	1870	3	102	56	1930	26	0	37	0	0	63.6	107
81240	1140	1	110	67	1020	15	0	49	0	0	77.7	70
81241	716	3	293	88	1110	8	0	86	3	0	90.9	148
81242	1750	3	231	54	2020	20	0	67	0	0	98.2	173
81243	2530	4	153	61	1350	15	0	56	0	0	91.3	193
81244	2110	4	124	40	1910	19	0	47	1	0	76.3	160
81245	2180	4	147	26	1340	22	0	46	0	0	62.4	308
81246	1340	3	149	27	1110	16	0	61	2	0	64.1	245
81247	1550	4	142	27	1420	95	0	46	1	0	66.4	383

COMPANY: FALCONBRIDGE LTD. | MIN-EN LABS ICP REPORT | (ACT:GE038) PAGE 3 OF 3

PROJECT No: 095 | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 4-820/P3&4

ATTENTION: L. UHER/J. HARDY | (604)980-5814 OR (604)988-4524 *TYPE SOIL GEOCHEM* | DATE: AUGUST 25, 1984

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
81184	125	0	32
81185	150	0	6
81186	150	0	2
81187	209	0	5
81200 40M	112	0	7
81201	183	0	21
81202	149	0	17
81203	167	0	11
81204	187	0	5
81205	240	0	22
81206	161	0	2
81207	222	0	9
81208	144	0	7
81209	161	0	10
81210	184	0	39
81211	192	0	6
81212	248	0	15
81213	316	0	7
81214	200	0	22
81215	327	0	8
81216	447	0	2
81217	213	0	1
81218	193	0	25
81219	190	0	14
81220	237	0	11
81221	299	0	16
81222	201	0	3
81223	228	0	28
81224	119	0	4
81225	93	0	40
81226	204	0	1
81227	255	0	5
81228	294	0	2
81229	177	0	8
81230	200	0	4
81231	180	0	1
81232	115	0	3
81233	349	0	3
81234	192	0	2
81235	187	0	7
81236	313	0	1
81237	238	0	1
81238	247	0	5
81239	414	0	2
81240	398	0	4
81241	239	0	24
81242	318	0	1
81243	331	0	1
81244	328	0	3
81245	162	0	6
81246	121	0	4
81247	182	0	1

COMPANY: FALCONBRIDGE LTD. MIN-EN LABS ICP REPORT (ACT:GE03B) PAGE 1 OF 3

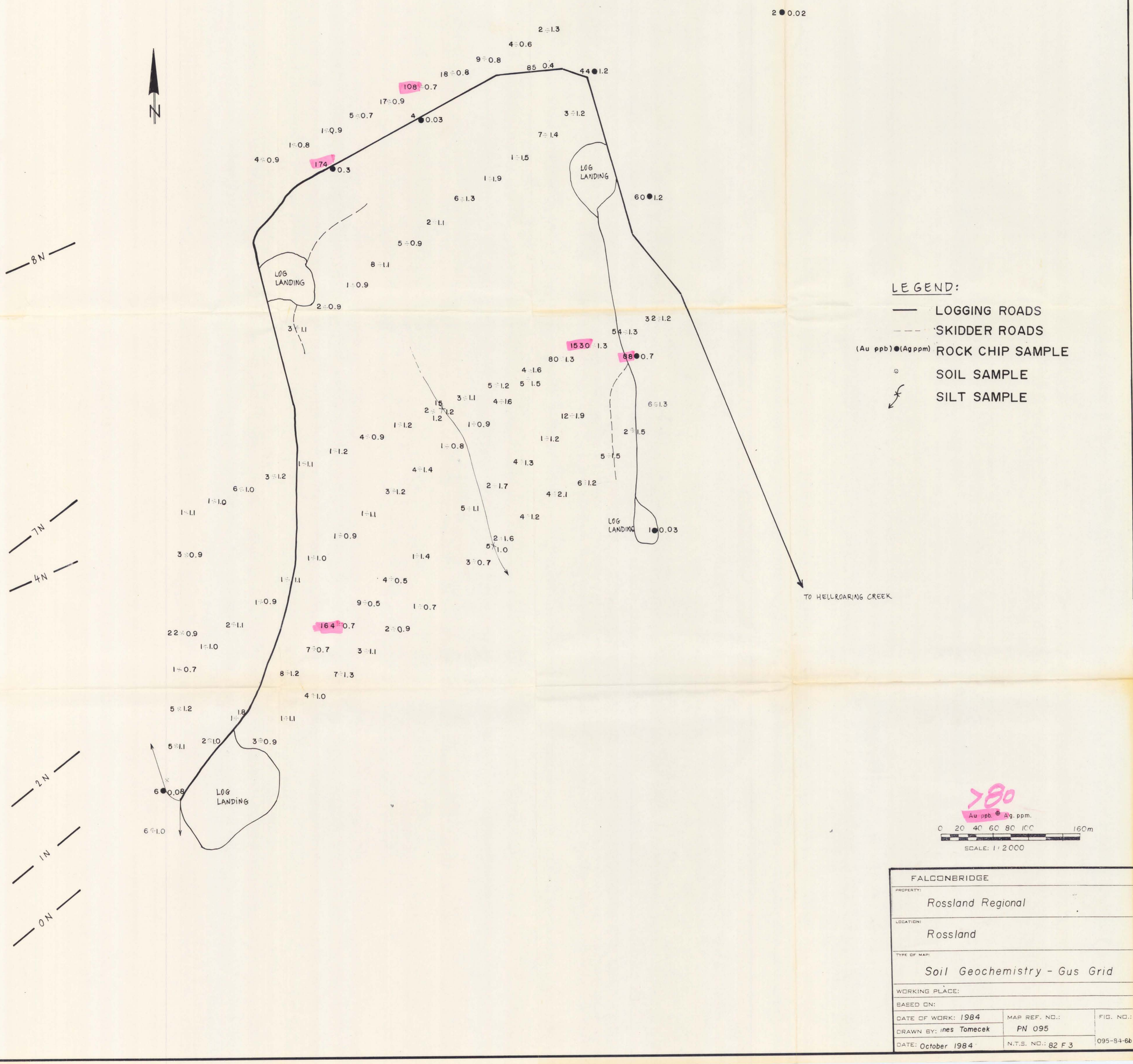
PROJECT No: 095 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE No: 4-902S

ATTENTION: J.HARDY/L.UHER (604)980-5814 OR (604)988-4524 *TYPE SOIL GEOCHEM* DATE: SEPTEMBER 1, 1984

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
84457	.7	23600	28	21	8	7510	1.4	26	68	45400	762	10300

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
84457	1970	3	99	49	798	25	0	64	2	0	75.0	84

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
84457	162	1	15



FALCONBRIDGE

PROPERTY: Rossland Regional

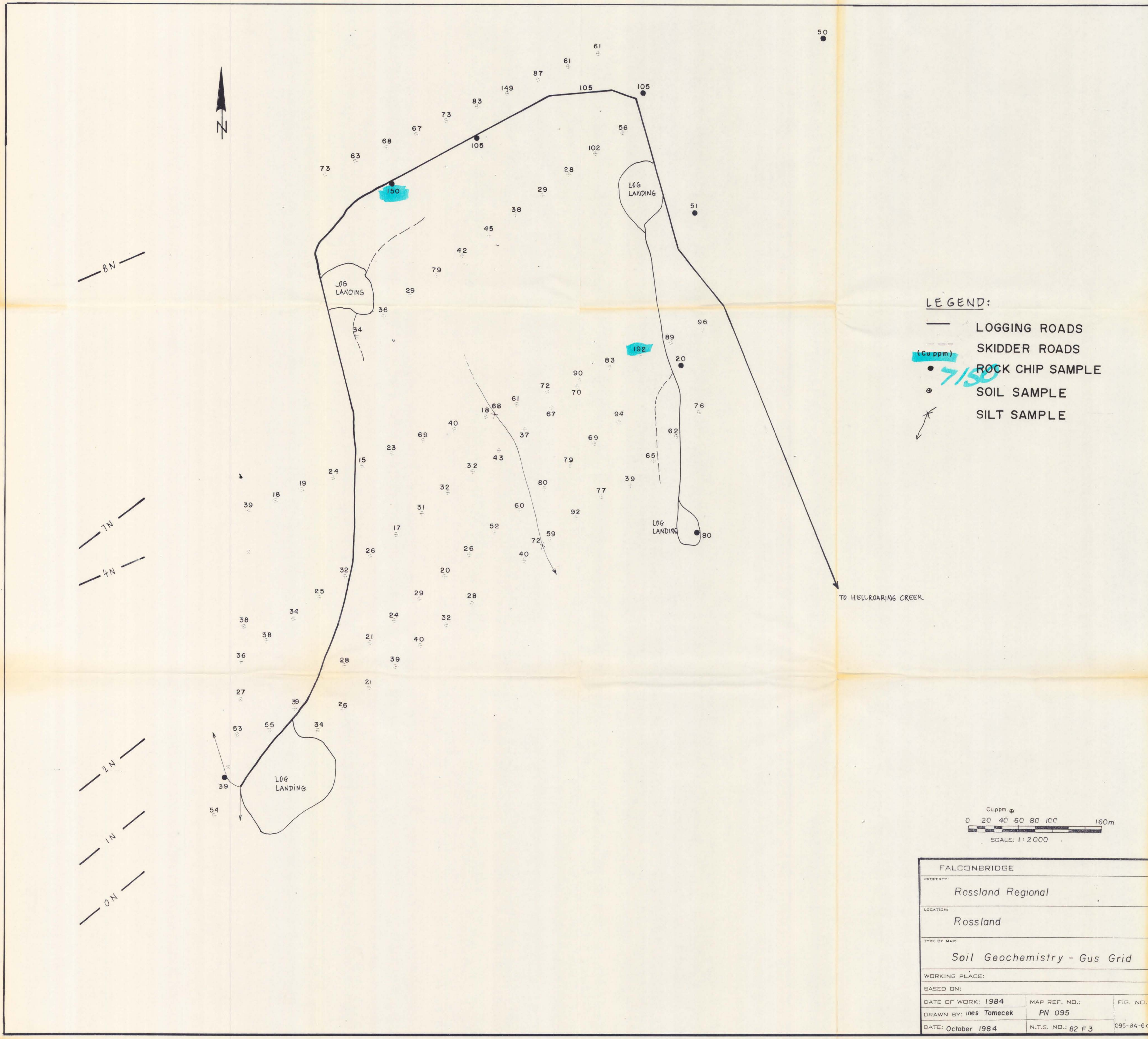
LOCATION: Rossland

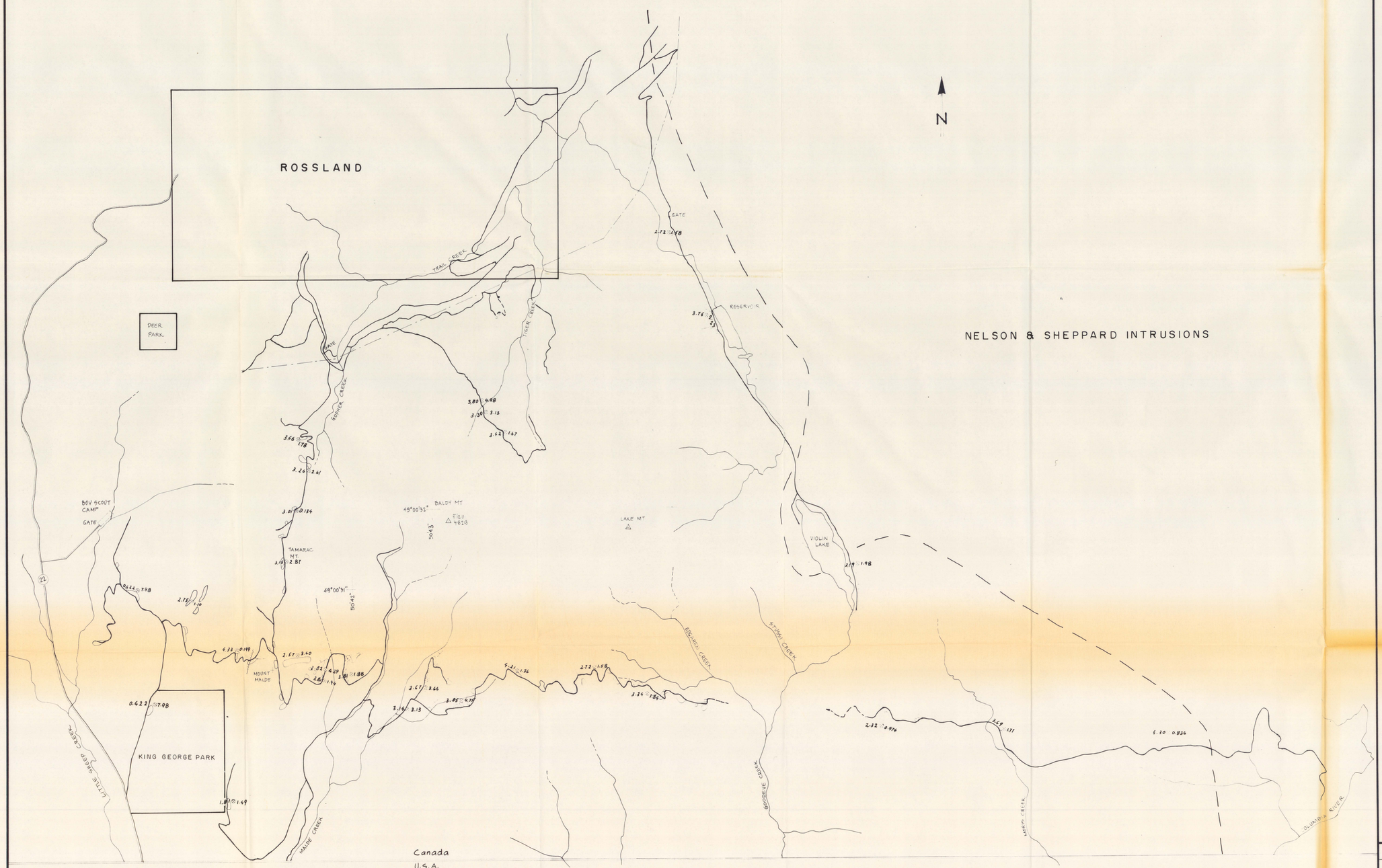
TYPE OF MAP: Soil Geochemistry - Gus Grid

WORKING PLACE:

BASED ON:

DATE OF WORK: 1984	MAP REF. NO.: PN 095	FIG. NO.: 095-84-6b
DRAWN BY: Ines Tomecek		
DATE: October 1984	N.T.S. NO.: 82 F 3	


N
8N
7N
4N
2N
1N
0N
LOG LANDING
LOG LANDING
LOG LANDING
LOG LANDING
150
192
TO HELLROARING CREEK
LEGEND:
LOGGING ROADS
SKIDDER ROADS
(Cu ppm)
ROCK CHIP SAMPLE
SOIL SAMPLE
SILT SAMPLE
Cu ppm.
0 20 40 60 80 100 160m
SCALE: 1:2000
FALCONBRIDGE
PROPERTY:
Rossland Regional
LOCATION:
Rossland
TYPE OF MAP:
Soil Geochemistry - Gus Grid
WORKING PLACE:
BASED ON:
DATE OF WORK: 1984
DRAWN BY: ines Tomecek
DATE: October 1984
MAP REF. NO.:
PN 095
N.T.S. NO.: 82 F 3
FIG. NO.:
095-84-6d



LEGEND

Na_2O K_2O(%) ROCK SAMPLE

HIGHWAY

LOGGING ROADS

POWER LINE

OUTCROP

400 0 400 800 1200m

SCALE: 1 : 20 000

FALCONBRIDGE LIMITED

PROPERTY: Rossland Regional	PROJECT NO.:
LOCATION: Rossland (South)	
TYPE OF MAP: Lithogeochemistry Na_2O / K_2O %	
WORKING PLACE:	
BASED ON:	
DATE OF WORK: 1984	MAP REF. NO.: PN 095
DRAWN BY: Ines Tomecek	N.T.S. NO.: 82 F 3
DATE: October 84	FIG. NO.: 095-84-7c

NELSON & SHEPPARD INTRUSIONS

ROSSLAND

N

KING GEORGE PARK

Canada
U.S.A.

LEGEND

TiO_2 ○ SiO_2(%) ROCK CHIP SAMPLE

HIGHWAY

LOGGING ROADS

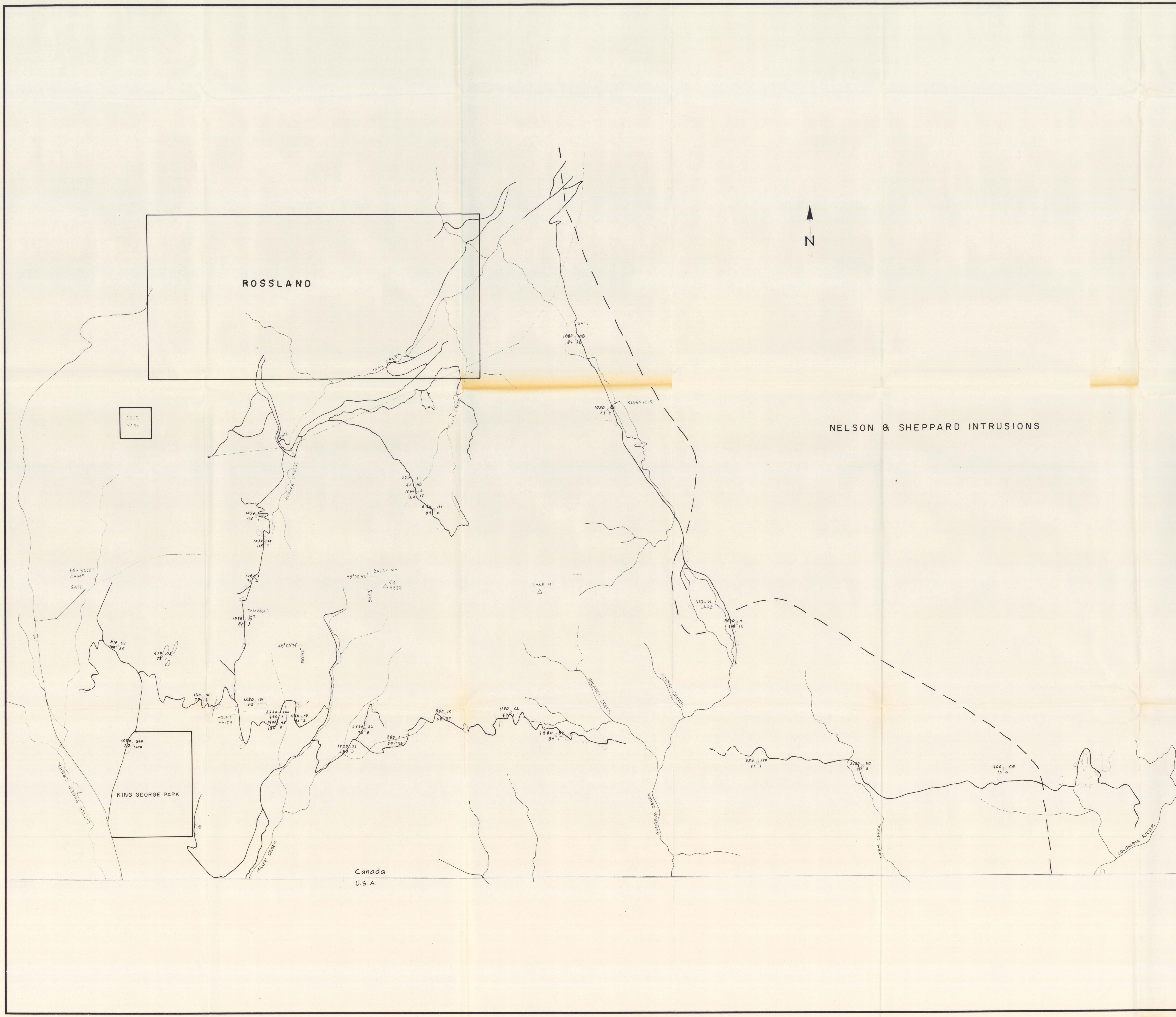
POWER LINE

OUTCROP

400 0 400 800 1200 m

SCALE: 1 : 20 000

FALCONBRIDGE LIMITED	
PROPERTY: Rossland Regional	PROJECT NO.:
LOCATION: Rossland (South)	
TYPE OF MAP: Lithogeochemistry TiO_2 / SiO_2	
WORKING PLACE:	
BASED ON:	
DATE OF WORK: 1984	MAP REF. NO.: PN 095 — FIG. NO.: 095-84-7b
DRAWN BY: Ines Tomecek	
DATE: October 84	N.T.S. NO.: 82 F 3



FALCONBRIDGE LIMITED

PROPERTY: Rossland Regional

PROJECT NO.:

LOCATION: Rossland (South)

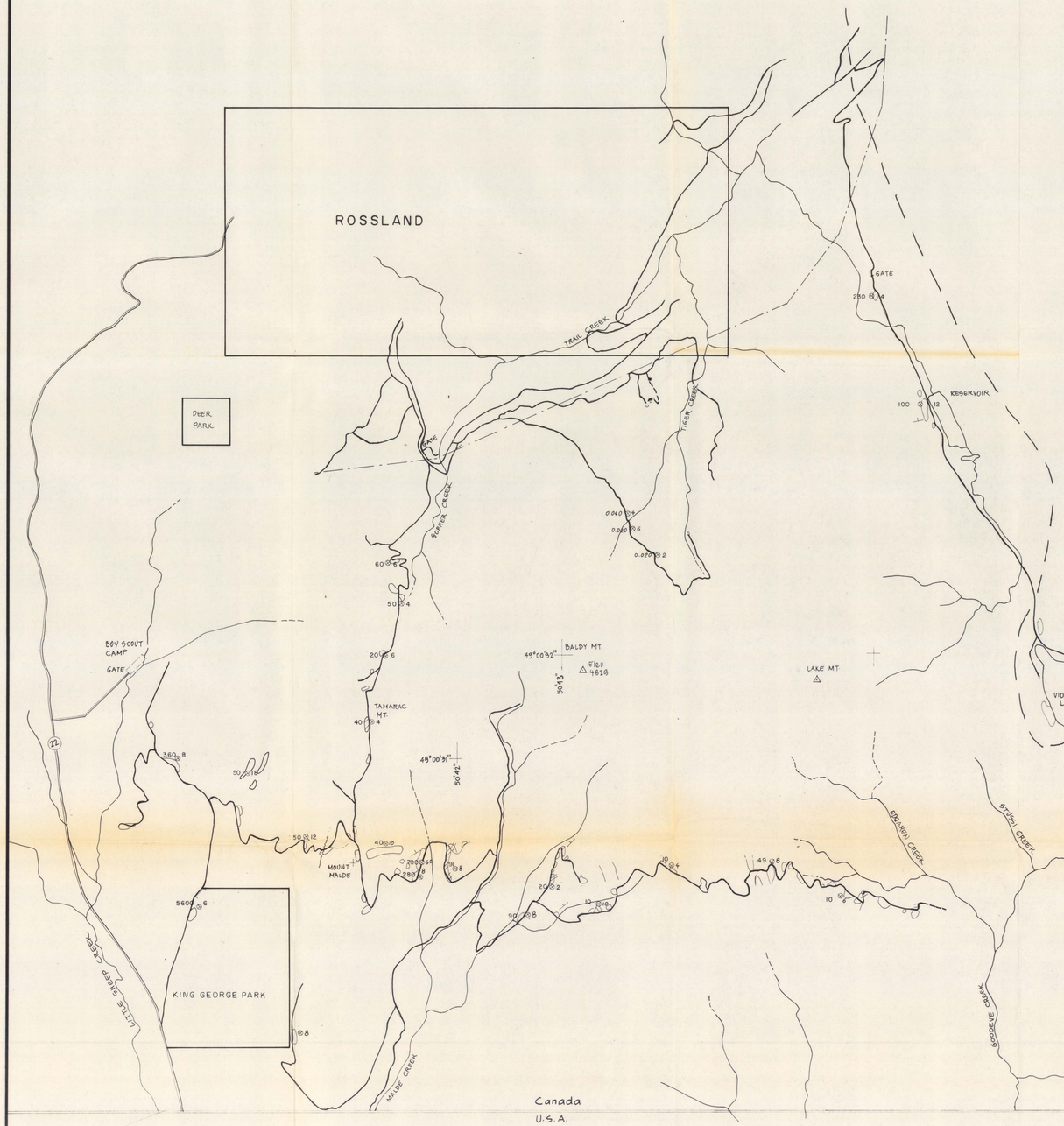
TYPE OF MAP: Lithogeochemistry Ba., Cu., Pb. and Zn.

WORKING PLACE:

BASED ON:

DATE OF WORK: 1984	MAP REF. NO.: PN 095	FIG. NO.:
DRAWN BY: Ines Tomecek		
DATE: October 84	N.T.S. NO.: 82 F3	095-84-74

NELSON & SHEPPARD INTRUSIONS



N

LEGEND

Ag ○ Au ROCK CHIP SAMPLE

HIGHWAY

LOGGING ROADS

POWER LINE

OUTCROP

400 0 400 800 1200m

SCALE: 1 20 000

FALCONBRIDGE LIMITED

PROPERTY: Rossland Regional	PROJECT No.
LOCATION: Rossland (South)	
TYPE OF MAP: Rock Geochemistry Ag., Au. in ppb.	
WORKING PLACE:	
BASED ON:	
DATE OF WORK: 1984	MAP REF. NO.: PN 095
DRAWN BY: Ines Tomecek	FIG. NO.:
DATE: October 84	N.T.S. NO.: 82 F3
	095-84-7e

NCI-348-7-M.L.

N

3

3B

BEAVER CREEK

NELSON 35 km

SALMO

GATE

SAWMILL

BELL CREEK

DOUBT
5N 3W

SUMMIT OF KELLY

TONER

ARCHIBALD CREEK

HELL ROARING CREEK

NORTH KELLY

2 ROAD

KELLY CREEK

ACE IN THE HOLE
4S x 4W

SWIFT 3
2N x 4W

SWIFT 2
5N x 4E

GUS 1-13
2 POST

GUS 5
3N x 3W

SWIFT 4
2S x 4W

SWIFT 1
(2S x 8E)

SWIFT CREEK

NELSON GRANODIORITE

PEND d'OREILLE

TILLICUM CREEK

LIMPID CREEK

LEGEND

TiO_2 O SiO_2 Rock Sample (%)

Logging Road

Main Highway

Regional Geological Contact

0 1 km

Scale = 1:20 000

FALCONBRIDGE LIMITED		
PROPERTY: Rossland Regional		
LOCATION: Rossland East Fruitvale		
TYPE OF MAP: Lithogeochemistry (TiO_2 / SiO_2)		
Working place:		
Based on:		
Date of work: 1984	Map ref. No.: PN 095	Fig. No.: 095-84-8b
Drawn by: Ines Tomecek		
Date: October 1984	N.T.S. No.: 82 F 3	

N

3

3B

BEAVER CREEK

NELSON 35 km

SALMO

GATE

SAWMILL

DOUBT

BELL CREEK

SUMMIT OF KELLY

TOWER

ARCHIBALD CREEK

HELLROARING CREEK

SWIFT 3

SWIFT 2

ACE IN THE HOLE

GUS 1-13

GUS 5 TO 8

SWIFT 4

SWIFT 1

SWIFT CREEK

NORTH KELLY ROAD

KELLY CREEK

NELSON GRANODIORITE

PEND d' OREILLE

TILLICUM CREEK

LIMPID CREEK

LEGEND

- Ba Cu / Zn Pb ⊕ Rock Sample (ppm)
- Ba Cu / Zn Pb ⊞ Silt Sample (ppm)
- Logging Road
- Main Highway
- Geological Contact

0 1 km

Scale = 1:20 000

FALCONBRIDGE LIMITED		
PROPERTY: Rossland Regional		
LOCATION: Rossland East Fruitvale		
TYPE OF MAP: Lithogeochemistry (Ba., Cu., Pb., and Zn.)		
Working place:		
Based on:		
Date of work: 1984	Map ref. No.: PN 095	Fig. No.: 095-84-8d
Drawn by: Ines Tomecek		
Date: October 1984	N.T.S. No.: 82 F 3	

NELSON 35 km

SALMO

3

3B

N

BEAVER CREEK

GATE

SAWMILL

BELL CREEK

DOUBT 5N 3W

SUMMIT OF KELLY

TONER

ARCHIBALD CREEK

HELLROARING CREEK

NORTH KELLY 3W 2 ROAD

KELLY CREEK

ACE IN THE HOLE

SWIFT 3

SWIFT 2

GUS 1-13 2 POST

6N 5W

SWIFT 4

SWIFT 1

SWIFT CREEK

?

NELSON GRANODIORITE

PEND d' OREILLE

TILLICUM CREEK

LIMPID CREEK

LEGEND

Na_2O(%) O K_2O(%) ROCK SAMPLE

LOGGING ROAD

MAIN HIGHWAY

REGIONAL GEOLOGICAL CONTACT

0 1 km

Scale = 1:20 000

FALCONBRIDGE LIMITED		
PROPERTY: Rossland Regional		
LOCATION: Rossland East Fruitvale		
TYPE OF MAP: Lithogeochemistry (Na_2O / K_2O)		
Working place:		
Based on:		
Date of work: 1984	Map ref. No.: PN 095	Fig. No.:
Drawn by: Ines Tomecek		
Date: October 1984	N.T.S. No.: 82 F 3	095-84-8c

N

8N

7N

4N

2N

1N

0N

LOG LANDING

LOG LANDING

LOG LANDING

LOG LANDING

TO HELLROARING CREEK

1●17
44 214
25 163
15 143
3 107
9●40
57 778
40 223
9 164
29 174
11●86
14 144
38 145
22 168
95 205
40 87
10 110
39●82
6 143
156●44
10 111
10 120
14 79
7 66
8 59
1 83
9 84
38 81
14 102
11 92
7 98
5●6
28 143
6 116 10 110
15 36 21 99 15 111
38 81
15 122
24 83
15 69
15 46
11 119
13 82
22 100
6 64
15 83
16 110
8 54
22 106
9 73
12 64
25 101
20 133
13 89
6 61
23 114
13 74
23 89
15 105
6 98
28 88
27 93
14 54
25 78
32
117
25 85
18 47
5 75
22 70
13 66
21 80
10 74
19 53
20 56
19 88
30 64
25 90
29 103
16 86
15 60
24 104
23 84
16 85
37 79
27 84
10 51
90
30
19 64
18 76
13 44
15 50
1●49
25 94
3●41

LEGEND:

LOGGING ROADS

SKIDDER ROADS

ROCK CHIP SAMPLE

(Pb ppm. / Zn ppm)

SOIL SAMPLE

SILT SAMPLE

740 > 140

Pb. ppm. ⊕ Zn. ppm.

0 20 40 60 80 100 160m

SCALE: 1:2000

FALCONBRIDGE

PROPERTY: Rossland Regional

LOCATION: Rossland

TYPE OF MAP: Soil Geochemistry - Gus Grid

WORKING PLACE:

BASED ON:

DATE OF WORK: 1984 | MAP REF. NO.: PN 095 | FIG. NO.: 095-84-6c

DRAWN BY: Ines Tomecek

DATE: October 1984 | N.T.S. NO.: 82 F 3