

1988

G E O C H E M I C A L   R E P O R T

On the RAM #759-796 MINERAL CLAIMS

Watson Lake Mining District, Y.T.

NTS: 105/F10; Lat 61°33'N; Long 132°37'W

OCTOBER, 1988. (YT'88 ASSESSMENT)

092604

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 16,150.00.

*A. J. Bremner*

Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

**1 9 8 8   G E O C H E M I C A L   R E P O R T**  
**ON THE RAM #759-796 MINERAL CLAIMS**

Watson Lake Mining District, Y.T.  
Latitude 61 degrees 33'N; Longitude 132 degrees 37'W.  
NTS: 105/F10

For

**FAIRFIELD MINERALS LTD.**  
Vancouver, British Columbia

By

J. J. Hylands, P.Eng.  
Consulting Geologist

**CORDILLERAN ENGINEERING LTD.**  
1980-1055 W. Hastings St.  
Vancouver, B.C. V6E 2E9

Date Submitted: October, 1988  
Field Period: July 16 to August 18, 1988

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### PLATE

(in pocket)

Scale

<u>Plate 1</u>	Soil Sample Geochemical Results .....	1:10,000
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The Ram silver-gold-lead-zinc property consists of 796 contiguous Ram claims and 12 Mat claims. The property is in the Watson Lake Mining District (105/F-9,10), 45 kilometres south of Ross River, Yukon Territory, near the headwaters of Seagull Creek and McConnell River in the Pelly Mountains. The first 758 Ram claims were staked between September, 1984 and July, 1985, the Mat claims acquired in April 1987, and the Ram 759-796 claims staked in September, 1987. Property acquisition and subsequent exploration were conducted by Cordilleran Engineering on behalf of Regional Resources Ltd. (1984-85) and Fairfield Minerals Ltd. (1987-88).

Vegetation on the claims varies from alpine through forested slopes to broad brushy valleys in an area of gentle to very steep topography. Access to the western claim area is via a 19 km two- and four-wheel drive road which starts at the Groundhog Creek crossing on the South Canol Highway.

Previous work by others included geological, geochemical and geophysical surveys, trenching and diamond drilling of various mineral showings. During 1985 grids were prepared and soil samples collected over five areas of interest, and the northern and eastern areas mapped. The 1987 program included additional grid preparation and soil sampling, geophysical surveys, geological mapping and claim staking. This report describes the work done on the Ram #759-796 claims during 1988.

A 4.6 km baseline was established and 287 soil samples collected and analyzed for Au and Ag. A relatively large Au soil anomaly was defined on the southern edge of the grid; the Au values are anomalous to strongly anomalous. The extent of this anomaly should be determined by more soil sampling followed by trenching.

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## 2.0

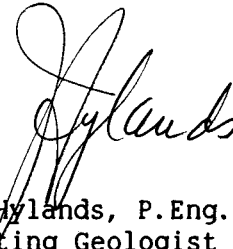
## R E C O M M E N D A T I O N S

The following exploration program is recommended for the Ram #759-796 mineral claims:

1. Soil sample the area between 4000S-4600W, 200W-1000W, on a 50m by 50m grid (200 samples) to determine the extent of the anomaly.
2. Prospect the anomaly using test pits and trenches. This will require the use of a backhoe.
3. Where results warrant, determine the vertical extent of mineralization by diamond drilling.

Respectfully submitted

**CORDILLERAN ENGINEERING LTD.**



J. J. Hylands, P.Eng.  
Consulting Geologist

JJH/z

October, 1988

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## 3.0

## I N T R O D U C T I O N

This report describes a program of geochemical exploration conducted on the Ram #759-796 claims between July 26 and August 18, 1988.

3.1 LOCATION AND ACCESS

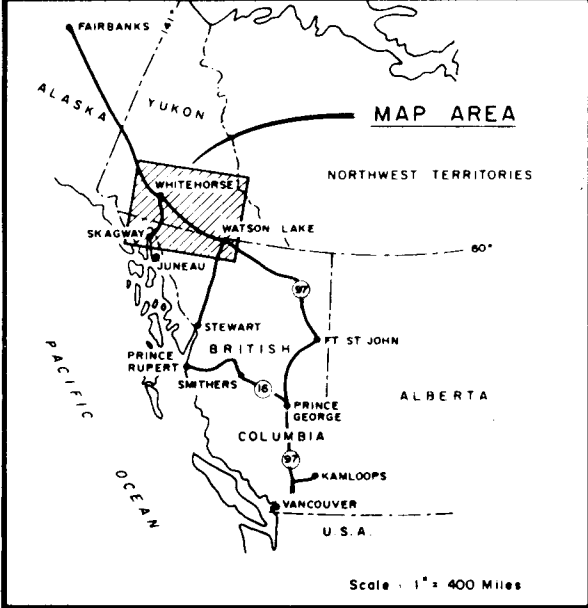
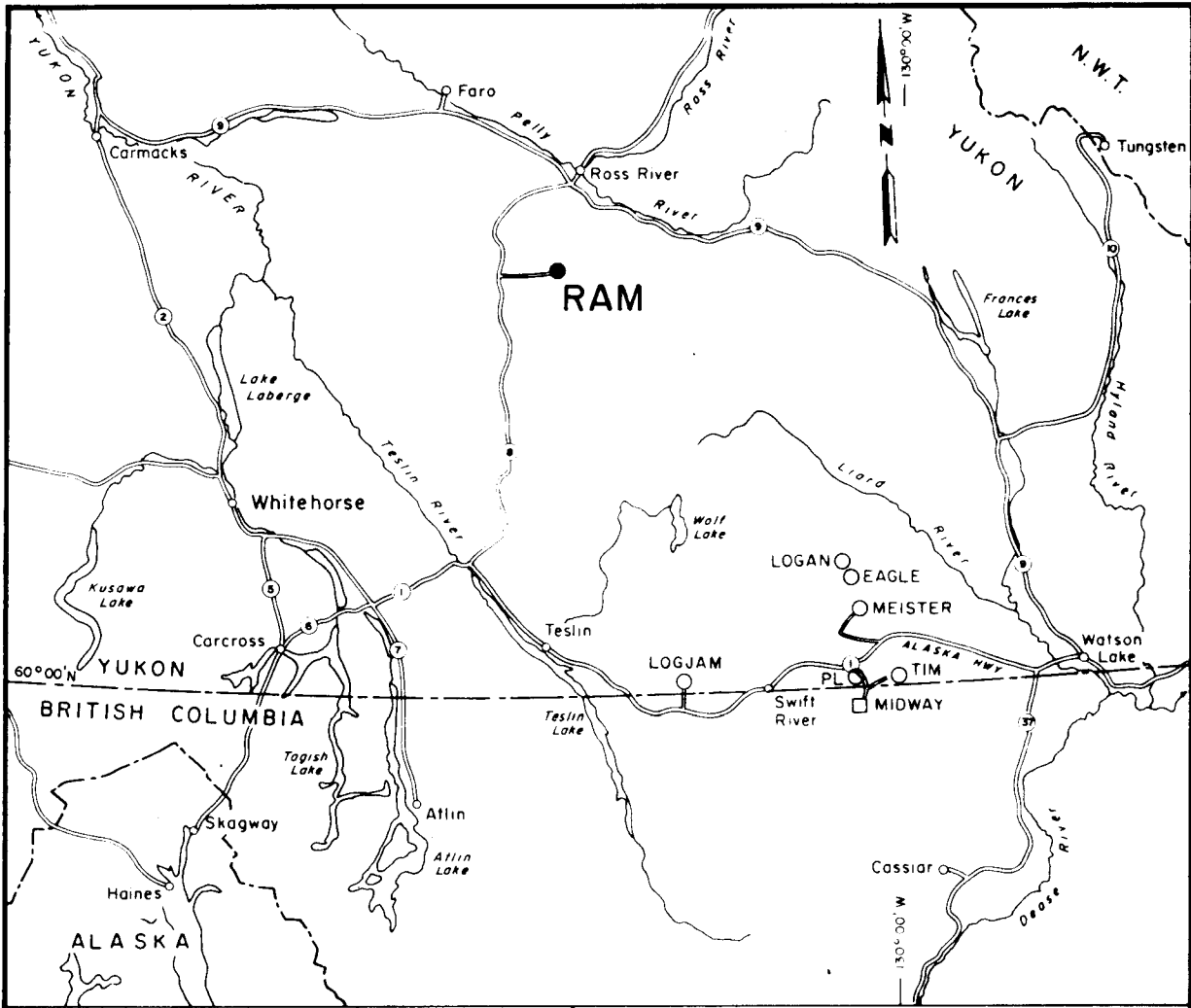
The Ram property is located 260 kilometres northeast of Whitehorse, Yukon and 45 kilometres south of Ross River, Yukon at latitude 61 degrees 35' N and longitude 132 degrees 35' W (Figure 1). The Ram 759-796 claims lie along the east side of Seagull Creek, approximately 10 km southeast of the southern Seagull Lake.

A 19 km, two- and four-wheel drive road starting at km 162 on the South Canal Highway (Groundhog Creek Road) provides access to south Seagull Lake; a four-wheel drive road extends southeast past the subject claims. Access to the grid was by helicopter.

3.2 PHYSIOGRAPHY AND CLIMATE

The Ram property is located within the St. Cyr Range of the Pelly Mountains. Moderate to steep mountainous terrain is cut by broad, brush-filled valleys. Elevations on the property range from 1060 metres to 2050 metres above sea level. Vegetation consists of spruce and dwarf balsam fir, juniper, alder and willow. Wildlife seen on the property includes grizzly bear, wolf, moose, woodland caribou, sheep, porcupine and marmot.

Climate in the Ram property area is characterized by short, warm summers and long, cold winters. Precipitation year-round is moderate. The best months for exploration work are mid-June through September inclusive.



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## RAM PROPERTY LOCATION MAP

20 0 10 20 30 40 Miles  
30 0 30 60 Kilometres

OCTOBER 1988

FIGURE 1

Scale - 1" = 400 Miles

## INTRODUCTION Continued

### 3.3 EXPLORATION HISTORY

Previous exploration on or around the present Ram claims has been conducted intermittently by various mining companies since 1955 (Cordilleran Engineering, 1987) but none has been recorded on the Ram 759-796 claims. As part of a 1984 regional exploration program sediment samples were collected from streams draining the area soil sampled in 1988. Samples from the stream draining the area between 2500S and 3200S on the 1988 grid returned anomalous values in Au, As and Zn. The skarn showing found in 1987 is 1 km northeast of this drainage, and the area drained is underlain by similar lithologies.

Thirty eight mineral claims were staked and recorded in October, 1987, to cover the favourable lithologies.

### 3.4 1988 EXPLORATION PROGRAM

Between July 26 and August 18, 1988, Cordilleran Engineering Ltd., on behalf of Fairfield Minerals Ltd., employed two linecutters and two samplers to establish control and collect soil samples from the Ram 759-796 grid (Figure 2). 5.6 km of line was cut and picketed, and 287 soil samples collected. These were analyzed for Au and Ag.

### 3.5 CLAIM DATA

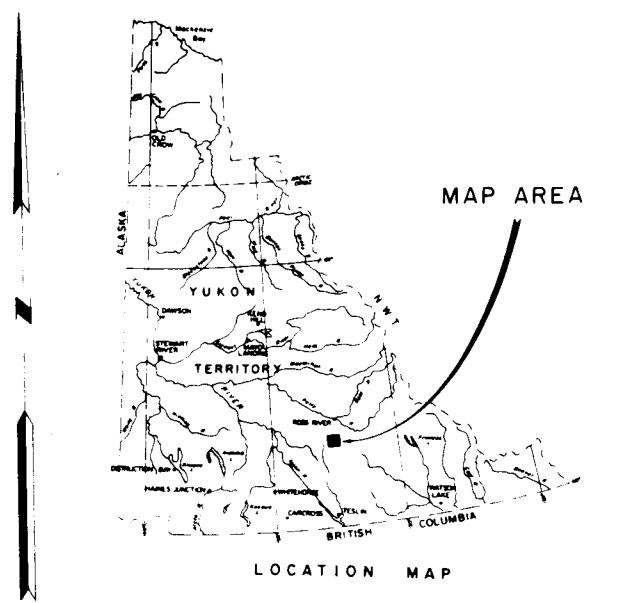
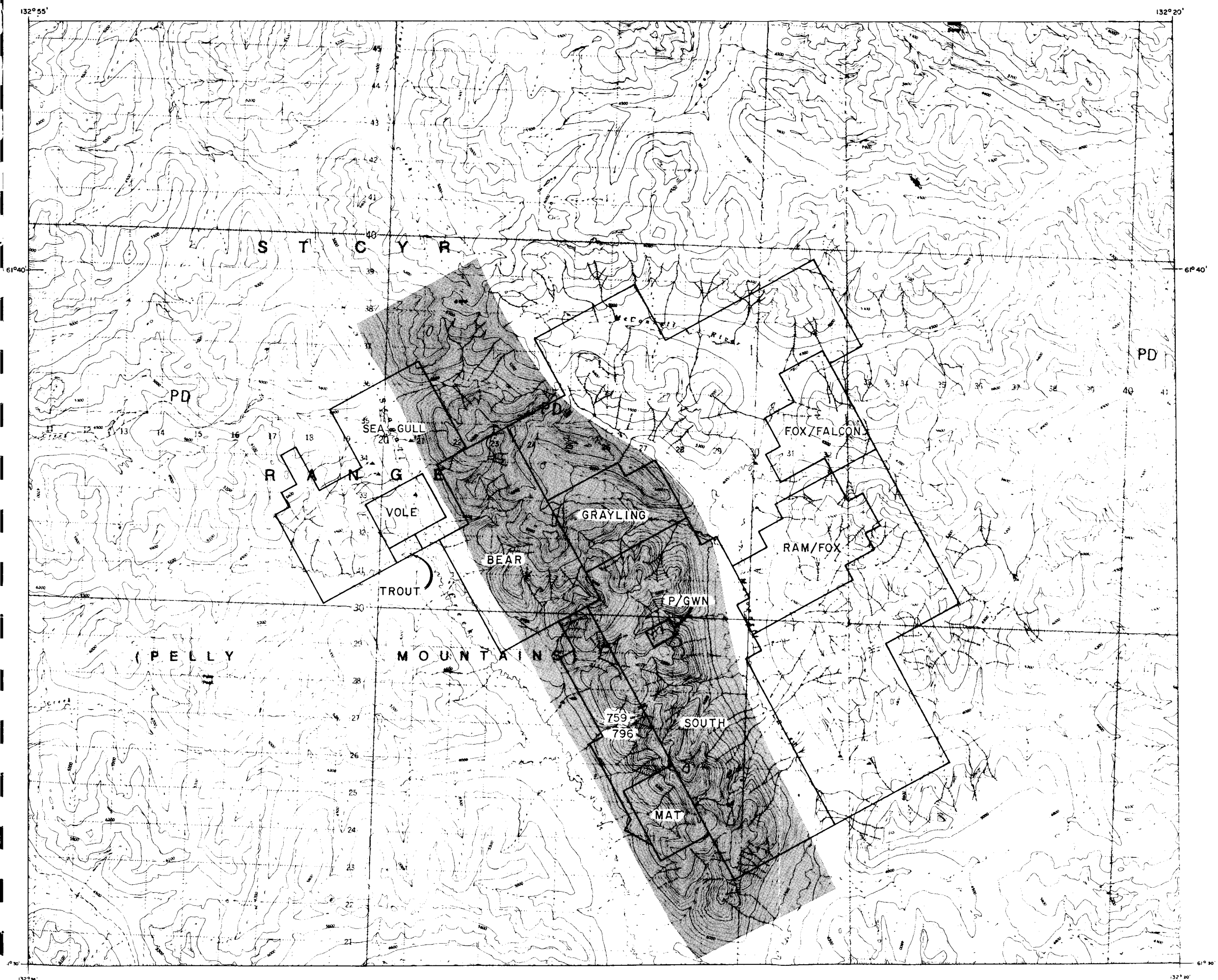
The Ram property presently consists of 794 full sized and 2 fractional Ram claims and 12 Mat claims, located south of Ross River (105/F-9,-10) in the Watson Lake Mining District, Yukon Territory (Figure 3). Claim locations have not been surveyed. The claims are owned 100% by Fairfield Minerals Ltd. Table 1 summarizes the claim data after application of work detailed in this report.

Table 1

#### CLAIM STATUS

<u>CLAIM</u>	<u>GRANT No's</u>	<u>EXPIRY DATE</u>
RAM 759-796	YA 01904 - 01941	31 DEC. 1992

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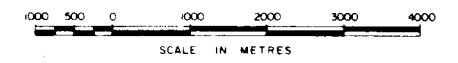


LEGEND

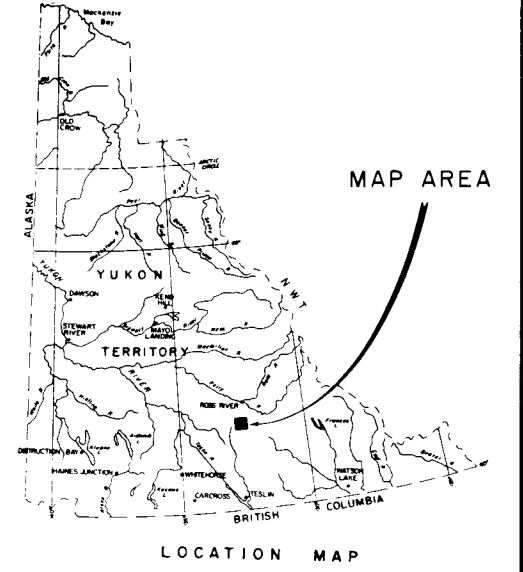
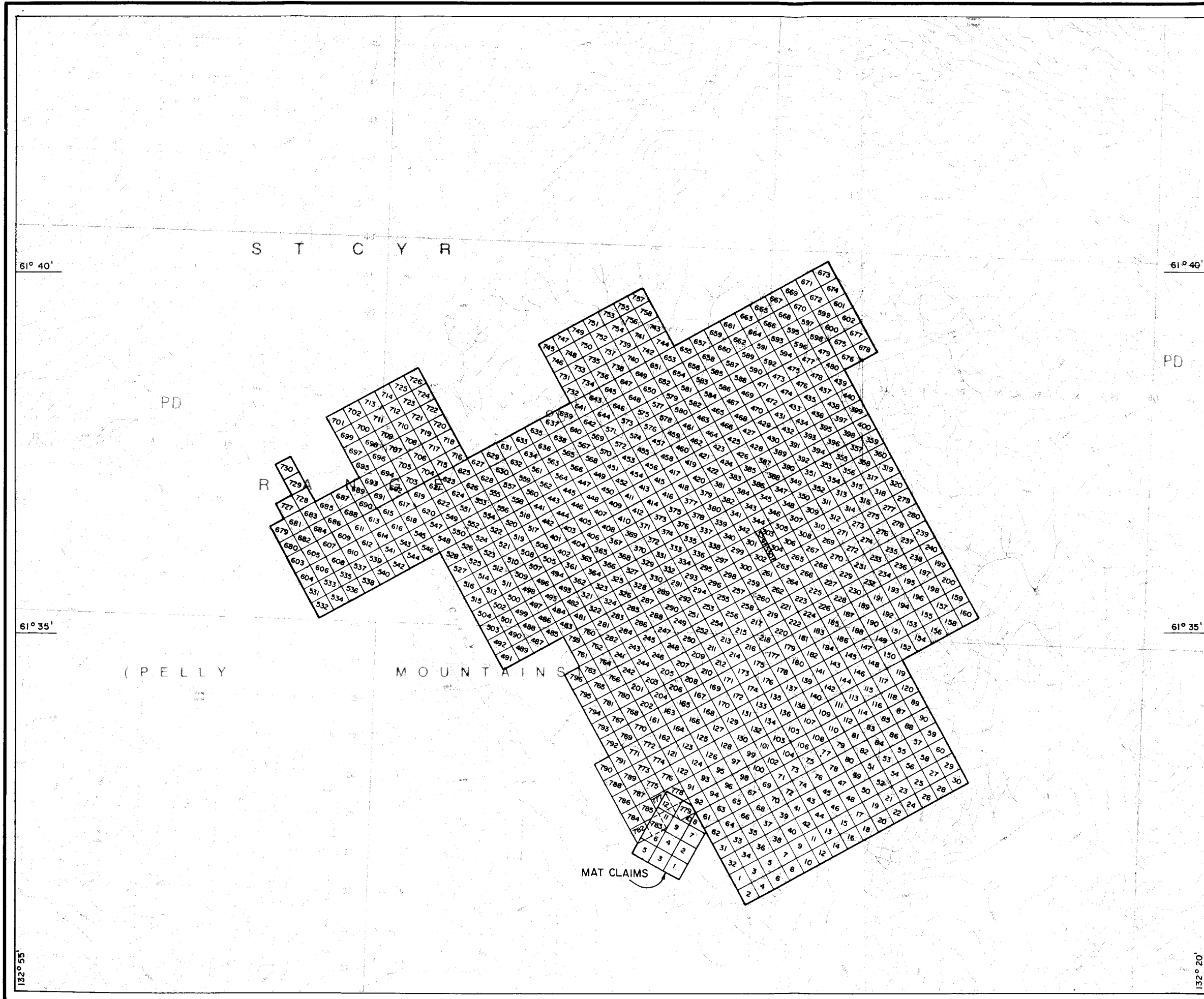
 CENTRAL MINERAL BELT

FAIRFIELD MINERALS LTD.  
 GRID MAP  
 RAM PROPERTY AREA

WATSON LAKE MINING DISTRICT, YUKON TERRITORY  
 NTS 105F-9,10  
 1 : 100,000



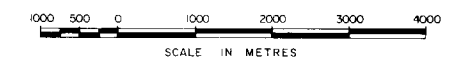
BY  
 CORDILLERAN ENGINEERING LTD  
 1980-1055 W HASTINGS STREET  
 VANCOUVER, B.C. V6E 2E9



FAIRFIELD MINERALS LTD.  
**CLAIM MAP**  
 RAM PROPERTY AREA

WATSON LAKE MINING DISTRICT, YUKON TERRITORY  
 NTS 105F-9,10

1 : 100,000



BY  
 CORDILLERAN ENGINEERING  
 1980-1055 W. HASTINGS STREET  
 VANCOUVER, B.C. V6E 2E9

## 4.0

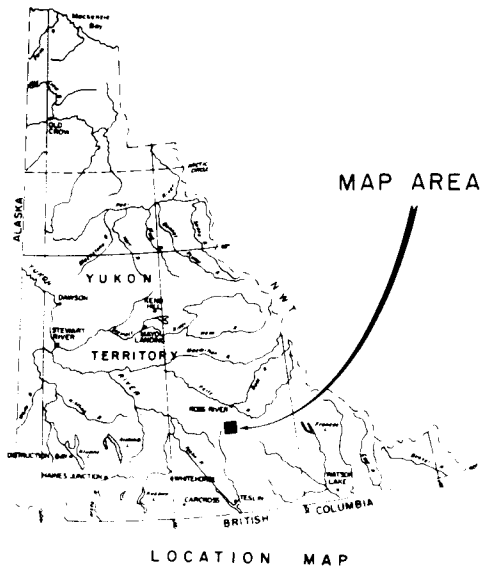
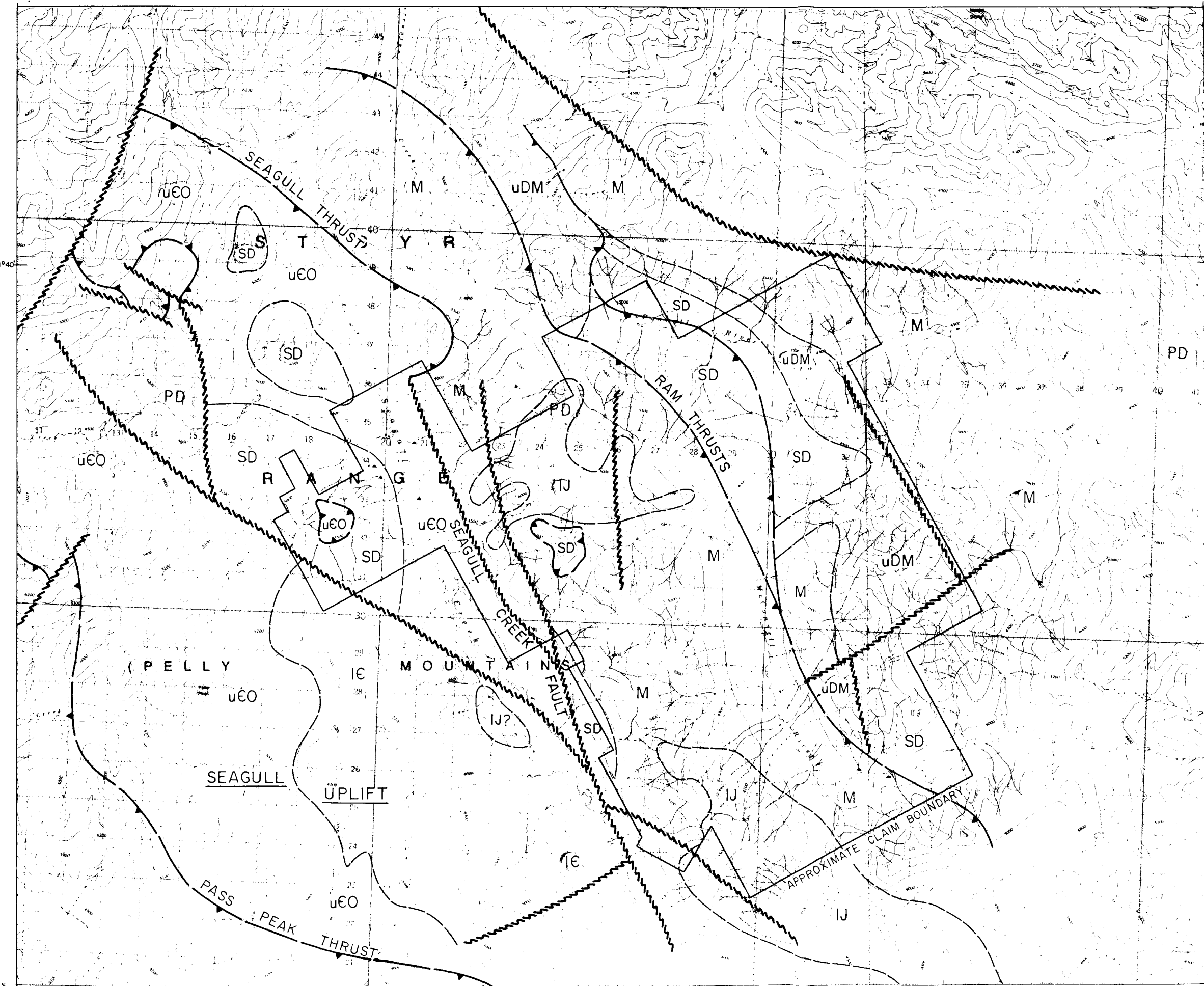
## G E O L O G Y

The Ram property lies in the St. Cyr Range of the Pelly Mountains, southwest of the Tintina Fault. The geology and mineral deposits of the area have been studied by Wheeler et al, 1960; Tempelman-Kluit et al, 1974, 1975, 1976; Tempelman-Kluit 1977, 1979; Morin, 1981; Cordilleran Engineering, 1985, 1987; and Abbott, 1986, as well as a host of mining companies.

4.1 REGIONAL GEOLOGY

The Ram property is on the western side of the Ketzka-Seagull District as defined by Abbott (1986). The district is underlain by a miogeoclinal succession of clastic, volcanic and carbonate rocks, (Table 2), early Proterozoic to Mississippian in age, deposited during shallow marine conditions near the margin of a stable continental platform (Tempelman-Kluit et al, 1976). This package has been foreshortened by large northeast directed thrust faults. The majority of the deposits on the Ram property are associated with the Seagull Uplift, and occur between the Lower Seagull and Upper Ram Thrusts (Figure 4). Abbott has postulated that the uplift was a result of doming, caused by buried Cretaceous intrusions, and has inferred that the mineralization in the district was derived from these intrusions.

Morin (1981) proposed a model that related "cauldron facies" geology to associated mineralization in the belt of rocks between Seagull Creek and McConnell River. The "cauldron facies" is represented by near surface syenite intrusions, commonly postulated to be coeval with the Mississippian volcanic rocks in this area. Veins, skarns, breccia pipes, disseminated pyrite gossans, stockworks and replacement mantos in volcanics, sediments and carbonates are spatially associated with the syenite bodies.



LEGEND

- IJ Lower Jurassic syenite
- M Mississippian flows, tuffs and sediments
- uDM Upper Devonian-Mississippian black shale
- SD Siluro-Devonian quartzite, dolomite and limestone
- uEO Upper Cambrian-Ordovician limestone and calcareous phyllite
- IE Lower Cambrian calcareous sediments and schist

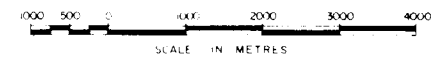
SYMBOLS

- Contact
- Normal fault
- Thrust fault

FAIRFIELD MINERALS LTD.  
**REGIONAL GEOLOGY**  
 RAM PROPERTY AREA

WATSON LAKE MINING DISTRICT, YUKON TERRITORY  
 NTS 105F-9,10

1 : 100,000



BY  
 CORDILLERAN ENGINEERING LTD.  
 105 W. HASTINGS STREET  
 VANCOUVER B.C. V6E 2E9

**Table 2**                      **RAM PROPERTY STRATIGRAPHY**

<u>GSC</u>	<u>RAM</u>	<u>AGE</u>	<u>LITHOLOGY</u>
	9	Jurassic?	Blocky weathering, dark grey-green latite dykes and sills; often bleached and clay altered; local magnetite.
My	8	Jurassic	Resistant, massive, coarse to medium grained equigranular syenite; fine grained trachyte border phase.
Mva	7	Mississippian	Heterogeneous, rusty orange to brown weathering flows, tuffs and local volcanic breccias ranging from andesite to rhyodacite in composition; dark grey argillaceous to phyllitic shale locally abundant.
	7a		Intermediate flows, crystal tuffs and lapilli tuffs, blocky medium to dark green-brown weathering, andesite composition.
	7b		Felsic flows and tuffs, rusty light grey to buff weathering, pyritic and siliceous, rhodacite composition; includes minor crystal lapilli tuff (7c) and flow banded rocks (7d).
	7e		Siltstone and shale, locally phyllitic, minor slate, chert and greywacke, grey to green-brown weathering, may include undifferentiated rhyodacite.
uDMS	6	Upper Devonian-Mississippian	Black to dark grey, very fine grained recessive weathering thin bedded siliceous shale and slate with minor "cherty" interbeds, locally phyllitic.
muDc	5a	Middle-Upper Devonian	Resistant, dark grey to black, medium to thin bedded limestone, locally fetid, locally rich in bioclastic debris.
SDd	5b	Silurian and (?)Lower Devonian	Resistant, medium to dark grey weathering fossiliferous black dolomite.
SDd1	4		Resistant, thick bedded to massive, buff to tan weathering sucrose silty dolomite; commonly with thin reticulated quartz veins.
Sq	3	Silurian	Resistant, white to light grey weathering, medium to thick bedded, medium grained orthoquartzite, locally with dolomite cement or interbeds, locally sericitic.
uCOs1	2	Upper Cambrian(?) and Ordovician	Recessive, medium grey to black, chlorite and slaty phyllite, graphitic schist and minor graptolitic slate, all locally calcareous.
lCcl	1	Lower Cambrian(?)	Interbedded, thin to medium bedded dark grey limestone; calcareous phyllite, green-grey tuffs and variably calcareous phyllitic tuffs; minor locally calcareous black shale.

## GEOLOGY Continued

### 4.2 LOCAL GEOLOGY

Preliminary mapping in 1987 of the area covered by the Ram 759-796 claims indicated that the claims were underlain by interbedded Mississippian flows, tuffs and sediments. These were intruded near the center of the area by numerous Jurassic(?) latite dykes, and in the south by Jurassic syenite. Silurian buff weathering dolomite has been found locally underlying the volcanics.

Rusty quartz-iron carbonate vein material was found as float and in situ, cross-cutting the Mississippian rocks in the vicinity of the latite dykes. Anomalous gold and silver values have been returned from samples of similar material elsewhere on the Ram property. Alteration of volcanic rocks by the syenite intrusion is marked by a prominent reddish-orange colour anomaly; narrow veins containing sphalerite, galena and pyrite, and wide zones of disseminated pyrite carrying anomalous gold, have been found in the altered volcanic rocks. This colour anomaly extends onto the new claims north of the Mat claims.

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## 5.0

## SOIL GEOCHEMISTRY

5.1 INTRODUCTION

A total of 419 soil sample stations were visited and 287 soil samples collected from the "B" or "C" soil horizon. The grid covered a west facing slope; at many sample locations very thick moss and roots were encountered, while at others there were thick accumulations of volcanic ash. Sample stations were at 50 m intervals on compass and flag lines 200m apart. Kraft paper bags were used to hold the samples, and each station and sample were marked with grid coordinates. Local physiography and sample depth, colour and texture were recorded.

After partially drying the samples in camp, they were shipped to the Bondar-Clegg and Company Ltd. laboratory in Whitehorse, Yukon for complete drying and sieving to produce a minus 80 mesh sample. This material was then shipped to Bondar Clegg's North Vancouver laboratory for analysis for Au and Ag. Gold was extracted by fire assay and determined by combined fire assay - Atomic Adsorption techniques. Silver was extracted using hot HNO<sub>3</sub>-HCl; the resulting solution was analyzed by AAS.

5.2 SAMPLE STATISTICS

The analytical results for Ag are lognormally distributed, whereas the Au results are strongly skewed to the low end (<5 ppb). Means and standard deviations were determined for both elements, and are presented in Table 3. Included for comparison are the parameters calculated in 1987 for the Central Mineral Belt (Cordilleran Engineering, 1987); this Belt includes the ground sampled in 1988 (Figure 2).

Table 3

STATISTICAL PARAMETERS FOR Au and Ag

<u>Grid</u>	<u>Au, ppb</u>					<u>Ag, ppm</u>				
	<u>N</u>	<u><math>\bar{x}</math></u>	<u><math>\bar{x}+s_x</math></u>	<u><math>\bar{x}+2s_x</math></u>	<u><math>\bar{x}+3s_x</math></u>	<u>N</u>	<u><math>\bar{x}</math></u>	<u><math>\bar{x}+s_x</math></u>	<u><math>\bar{x}+2s_x</math></u>	<u><math>\bar{x}+3s_x</math></u>
Ram 759-796	287	3.36	8.39	20.97	52.42	286	0.29	0.52	0.91	6.60
1987 Central Mineral Belt	<u>4636</u>	<u>2.46</u>	<u>4.96</u>	<u>10.00</u>	<u>20.17</u>	<u>4620</u>	<u>0.20</u>	<u>0.42</u>	<u>0.84</u>	<u>1.72</u>
Combined	4923	2.51	5.14	10.56	21.67	4906	0.21	0.42	0.87	1.80

**SOIL GEOCHEMISTRY Continued****5.3 DISCUSSION**

Values less than the mean, ( $\bar{x}$ ), are considered to be background, the mean plus one standard deviation is used as the threshold, and values greater than the mean plus two standard deviations are considered as anomalous.

The Central Mineral Belt, which includes the grid sampled in 1988, is underlain predominantly by Mississippian intermediate volcanics and derived sediments intruded by Jurassic syenite plugs and Jurassic(?) latite dykes.

The silver statistics for the 1988 samples are essentially the same as those for the Central Mineral Belt, but background, threshold and anomalous levels for Au are considerably higher. This is due to the large percentage (20%) of 1988 values, from a relatively small population, that are equal to or greater than 10 ppb. Only 10% of the 1987 Au values were equal to or greater than 10 ppb. For purposes of interpretation the combined results are used.

The 1988 Au and Ag results are plotted on Plate 1. A number of small zones anomalous in Au (>15 ppb) can be defined, but only two stand out - a single point anomaly of 59 ppb Au at 200N, 300E, and a large anomalous area on the west end of line 4200S. This large Au soil anomaly is west of the colour anomaly described previously. One Ag value was very strongly anomalous (2200S, 350W, 15.3 ppm). Results from the area in which quartz/iron carbonate vein float was found, (2300S-1600S, 0E-300E), were generally very low.

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6.0

## STATEMENT OF EXPENDITURES

PERIOD OF EXPENDITURES: JULY 26 to AUGUST 18, 1988

SUMMARY

LINECUTTING	5.6 km, 10 man days .....	2,092.00
HELICOPTER	\$661.66/hr (incl. fuel) x 5.5 hours .....	3,639.13
SALARIES	15 man days .....	\$ 1,350.00
SAMPLING SUPPLIES:	Flagging, toprofil, bags .....	99.45
ANALYSES	187 samples x \$11.00/sample .....	3,157.00
CAMP SUPPORT	29 man days x \$133.26/man day .....	3,864.54
SUPERVISION, INTERPRETATION, REPORT	.....	<u>3,850.00</u>

\$18,052.12

*J. L. Anderson*

STATEMENT OF EXPENDITURES ContinuedLINECUTTING (Gordon Clark & Associates)

5.6 km x 4.5 days x \$450/day	.....	\$ 2,025.00	
Gas, lath	.....	<u>67.00</u>	2,092.00

HELICOPTER (Frontier Helicopters)

5.5 hours x \$661.66/hour	.....		3,639.13
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SOIL SAMPLING

Salaries: Geologist	7 days x \$112/day	.....	784.00	
Assistant	2 days x 67/day	.....	134.00	
Assistant	<u>6 days</u> x 72/day	.....	<u>432.00</u>	
	15 days			1,350.00

Supplies: Flagging, toprofil, kraft bags	.....		99.45
Analyses: 287 samples x \$11.00/sample (Au, Ag)	.....		3,157.00

CAMP SUPPORT

Sr. Geologist	4 man days x \$133.26/day	.....	533.04	
Linecutters	10 man days x 133.26/day	.....	1,332.60	
Samplers	15 man days x 133.26/day	.....	<u>1,998.90</u>	3,864.54

SENIOR GEOLOGIST

Planning, training, supervision	3 days x \$550/day	.....	2,650.00	
Interpretation, report	4 days x 550/day	.....	<u>2,200.00</u>	<u>3,850.00</u>

**TOTAL EXPENDITURES**      **\$18,051.12**

*J. L. Anderson*

Samples collected from 34 claims = \$530.94/claim

**STATEMENT OF EXPENDITURES Continued****MOBILIZATION, CAMP CONSTRUCTION & CAMP OPERATION:**

Travel (Hotel, meals - Watson Lake, Ross River) .....			\$	1,160.00	
Helicopter (Trans North, Ross River) .....				4,160.00	
Camp supplies and Equipment .....				10,625.00	
Construction Materials .....				5,980.00	
Expediting, Trucking .....				2,050.00	
Food .....				14,895.00	
Freight, Express .....				2,340.00	
Fuel (gas, stove oil, propane, firewood) .....				3,185.00	
Insurance .....				380.00	
Office supplies, printing .....				2,375.00	
Rentals:	4x4 Trucks .....		\$5,100.00		
	Camp Equipment .....		12,380.00		
	Radios .....		<u>3,575.00</u>		21,055.00
Telephone, Postage .....				2,865.00	
Vehicle Operating, Maintenance .....				1,950.00	
Salaries:	Cook 116 days x \$112/day ....		12,992.00		
	Geologist 22 days x 112/day ....		2,464.00		
	Assistant 32 days x 67/day ....		2,144.00		
	Assistant 26 days x 67/day ....		1,742.00		
	Assistant 1 day x 72/day ....		<u>72.00</u>		19,414.00
Sr Geologist:	Mobilization 9 days x \$550/day ....		4,950.00		
	Construction 8 days x 550/day ....		4,400.00		
	Operation 19 days x 550/day ....		10,450.00		
	Demobilization <u>6 days</u> x 550/day ....		<u>3,300.00</u>		<u>23,100.00</u>
			<b>TOTAL</b>		<b><u>\$115,534.00</u></b>

**CAMP MAN DAYS:** June 4 - Sept. 19, 1988 = 867 MAN DAYS

**COST/MAN DAY** =  $\$115,534 \div 867 \text{ man days} = \$133.26/\text{day}$

**HELICOPTER COST: (Frontier, 1988)**

Hours flown on project: 120.1 hrs in 48 days  
 Fuel consumption: 109 litres/hour x 120.1 hrs = 13,090.9 litres  
 Fuel cost, delivered: \$0.7835/litre

Lease Cost: 120.1 hrs x \$523/hour = \$62,812.30  
 Fuel Cost: 13,090.9 litres x \$0.7835/litre = 10,256.72  
 Camp Support: 48 man days x \$133.26/day = 6,396.48  
 \$79,465.50

**COST/HOUR** =  $\$79,465.50 \div 120.1 = \$661.66/\text{hr.}$

## 7 . 0

## B I B L I O G R A P H Y

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- 1976 Stratigraphic and Structural Studies in the Pelly Mountains, Yukon Territory; in Geol. Surv. Can., Paper 76-1, Part A, pp. 97-106.

TEMPLEMAN-KLUIT, D.J.:

- 1977 Geology of Quiet Lake and Finlayson Lake Map Areas, Yukon Territory (105F and G); Geol. Surv. Can., Open File 486.
- 1979: Transported Cataclastic, Ophiolite and Granodiorite in Yukon: Evidence of Arc-Continent Collision; Geol. Surv. Can., Paper 79-14, 27p.

WHEELER, J.O., GREEN, L.H., RODDICK, J.A.:

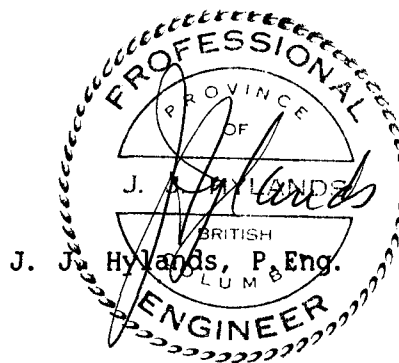
- 1960 Quiet Lake, Yukon Territory, Geol. Surv. Can., Map 7-1960.

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## 8.0 STATEMENT OF QUALIFICATIONS

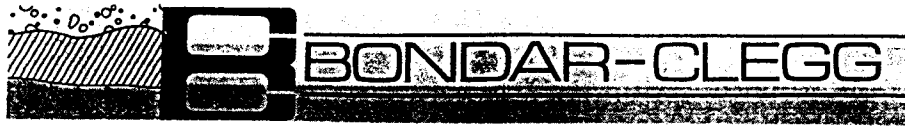
I, J. J. Hylands, hereby certify that:

1. I am a consulting geologist resident at 1430 Inglewood Avenue, West Vancouver, B.C. V7T 1Z1.
2. I am a graduate of the University of British Columbia (B.A.S., Geological Engineering, 1966).
3. I have engaged in the study and practice of mineral exploration since 1956, in Canada, the United States and the Philippines.
4. I am the author of this report and the supervisor of the field work conducted on the Ram 759-796 claims during the period July 26 to August 18, 1988.
5. I am a Professional Engineer registered in the Province of British Columbia.
6. I have no beneficial interest in the claims covered by this report or in Fairfield Minerals Ltd.



JJH/z

October, 1988  
Vancouver, B.C.



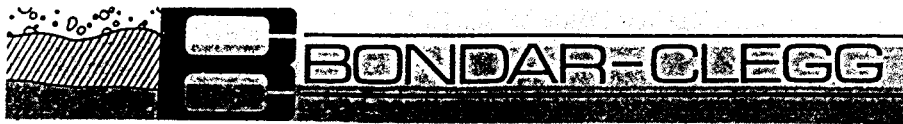
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PROJECT: RAM

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM
S1 R 32-000N 00IF		13	0.2	S1 R 32-800S 200IF		<5	0.2
S1 R 32-000N 50E		13	0.1	S1 R 32-800S 050W		<5	0.2
S1 R 32-000N 100IF		7	0.2	S1 R 32-800S 150W		<5	0.4
S1 R 32-000N 150E		12	0.2	S1 R 32-800S 350W		14	0.9
S1 R 32-000N 250IF		8	0.2	S1 R 32-800S 400W		<5	0.6
S1 R 32-000N 350E		15	0.2	S1 R 32-1000S 050E		<5	0.2
S1 R 32-000N 390IF		12	0.3	S1 R 32-1000S 200IF		<5	0.2
S1 R 32-000N 050W		6	0.1	S1 R 32-1000S 050W		<5	0.3
S1 R 32-000N 150W		6	<0.1	S1 R 32-1000S 100W		<5	0.2
S1 R 32-000N 200W		21	0.1	S1 R 32-1000S 350W		<5	0.6
S1 R 32-000N 250W		5	0.3	S1 R 32-1800S 000IF		<5	0.4
S1 R 32-200N 00E		<5	0.2	S1 R 32-1800S 50E		<5	0.3
S1 R 32-200N 50E		7	<0.1	S1 R 32-1800S 100IF		<5	0.6
S1 R 32-200N 100E		<5	0.3	S1 R 32-1800S 150E		<5	0.1
S1 R 32-200N 150IF		10	0.1	S1 R 32-1800S 200IF		<5	0.2
S1 R 32-200N 200E		7	0.2	S1 R 32-1800S 250E		<5	0.3
S1 R 32-200N 250IF		6	0.2	S1 R 32-1800S 300IF		<5	0.6
S1 R 32-200N 300E		59	0.2	S1 R 32-1800S 350E		<5	0.4
S1 R 32-200N 350IF		5	0.4	S1 R 32-1800S 390IF		<5	0.3
S1 R 32-200N 390E		10	0.4	S1 R 32-1800S 050W		<5	<0.1
S1 R 32-200N 050W		<5	0.3	S1 R 32-1800S 100W		<5	0.2
S1 R 32-200N 100W		<5	0.2	S1 R 32-1800S 150W		<5	0.4
S1 R 32-200N 150W		<5	0.4	S1 R 32-1800S 200W		<5	1.3
S1 R 32-200N 200W		<5	0.2	S1 R 32-1800S 250W		<5	0.3
S1 R 32-200S 000IF		<5	0.2	S1 R 32-1800S 400W		<5	0.3
S1 R 32-200S 50E		<5	0.1	S1 R 32-1800S 450W		<5	0.2
S1 R 32-200S 100IF		<5	0.2	S1 R 32-1800S 500W		5	0.4
S1 R 32-200S 150E		7	0.2	S1 R 32-1800S 600W		17	0.5
S1 R 32-200S 200IF		<5	0.2	S1 R 32-2000S 000IF		5	0.2
S1 R 32-200S 250E		<5	0.6	S1 R 32-2000S 100E		11	0.5
S1 R 32-200S 300IF		<5	0.3	S1 R 32-2000S 150E		<5	0.2
S1 R 32-200S 350E		<5	0.4	S1 R 32-2000S 200E		<5	0.1
S1 R 32-200S 390IF		<5	0.4	S1 R 32-2000S 250IF		<5	0.4
S1 R 32-200S 050W		6	0.2	S1 R 32-2000S 300E		9	0.5
S1 R 32-200S 100W		<5	0.2	S1 R 32-2000S 350IF		8	0.1
S1 R 32-200S 150W		<5	0.3	S1 R 32-2000S 390E		<5	0.3
S1 R 32-200S 200W		<5	0.1	S1 R 32-2000S 050W		<5	0.1
S1 R 32-200S 250W		16	0.6	S1 R 32-2000S 100W		11	0.2
S1 R 32-800S 050E		<5	0.2	S1 R 32-2000S 150W		14	0.2
S1 R 32-800S 100E		<5	0.8	S1 R 32-2000S 300W		<5	0.2



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SAMPLE NUMBER	ELEMENT UNITS	Au PPD	Ag PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPD	Ag PPM
S1 R 32-200NS	35NW	<5	0.5				
S1 R 32-200NS	45NW	<5	0.2				
S1 R 32-200NS	60NW	<5	0.1				
S1 R 32-200NS	65NW	<5	0.2				
S1 R 32-220NS	00E	<5	0.3				
S1 R 32-220NS	50F	<5	0.2				
S1 R 32-220NS	100E	<5	0.8				
S1 R 32-220NS	150F	18	0.6				
S1 R 32-220NS	200E	6	0.8				
S1 R 32-220NS	250F	<5	0.9				
S1 R 32-220NS	050W	<5	0.3				
S1 R 32-220NS	100W	<5	0.2				
S1 R 32-220NS	150W	<5	0.2				
S1 R 32-220NS	200W	<5	0.3				
S1 R 32-220NS	250W	<5	0.7				
S1 R 32-220NS	300W	8	1.4				
S1 R 32-220NS	350W	5	15.3				
S1 R 32-220NS	450W	<5	0.4				
S1 R 32-220NS	500W	14	0.2				
S1 R 32-220NS	600W	15	0.2				
S1 R 32-420NS	00E	20	0.2				
S1 R 32-420NS	150F	14	0.3				
S1 R 32-420NS	200E	16	0.4				
S1 R 32-420NS	250F	11	0.3				
S1 R 32-420NS	300E	8	0.3				
S1 R 32-420NS	350F	13	0.1				
S1 R 32-420NS	390E	14	0.1				
S1 R 32-420NS	050W	<5	0.4				
S1 R 32-420NS	100W	13	<0.1				
S1 R 32-420NS	150W	11	0.2				
S1 R 32-420NS	250W	15	1.0				
S1 R 32-420NS	300W	31	0.7				
S1 R 32-420NS	400W	27	0.1				
S1 R 32-420NS	450W	20	0.1				
S1 R 32-420NS	500W	27	0.3				
S1 R 32-420NS	600W	44	0.1				
S1 R 32-420NS	650W	30	0.2				
S1 R 32-420NS	700W	24	0.2				
S1 R 32-420NS	750W	27	0.1				
S1 R 32-420NS	850W	34	0.2				



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SAMPLE NUMBER	EL FNFNT UNITS	Au PPB	Au/wt G	Au/wt G	Ag PPM	SAMPL F NUMBER	EL FNFNT UNITS	Au PPB	Au/wt G	Au/wt G	Ag PPM
S1 R 41-120NS 39NF		<5			0.3	S1 R 41-240NS 410W		<5			0.2
S1 R 41-120NS 35OE		<5			0.7	S1 R 41-240NS 450W		<5			0.9
S1 R 41-120NS 30NF		24			0.1	S1 R 41-240NS 550W		6	9.0		0.5
S1 R 41-120NS 25OE		<5			0.2	S1 R 41-240NS 750W		<5	1.0	4.0	0.2
S1 R 41-120NS 20NF		<5			0.2	S1 R 41-260NS 39NF		13	6.0		0.4
S1 R 41-120NS 15OE		<5			0.3	S1 R 41-260NS 35OE		6	8.0		0.3
S1 R 41-120NS 10NF		13			0.2	S1 R 41-260NS 30NF		<5			0.6
S1 R 41-120NS 00OE		<5			0.4	S1 R 41-260NS 25OE		<5			0.3
S1 R 41-120NS 050W		<5	6.0		0.6	S1 R 41-260NS 20NF		<5			0.2
S1 R 41-120NS 100W		<5			0.5	S1 R 41-260NS 15OE		<5			0.3
S1 R 41-140NS 150W		6			0.6	S1 R 41-260NS 10NF		<5			0.2
S1 R 41-140NS 39OE		<5			0.3	S1 R 41-260NS 05OE		<5			0.3
S1 R 41-140NS 35NF		<5	5.0		0.4	S1 R 41-260NS 00NF		<5			0.3
S1 R 41-140NS 30OE		<5			0.2	S1 R 41-260NS 050W		<5			0.3
S1 R 41-140NS 25NF		<5			0.3	S1 R 41-260NS 100W		<5			0.5
S1 R 41-140NS 20OE		7			0.2	S1 R 41-260NS 150W		<5			0.3
S1 R 41-140NS 10NF		<5			0.4	S1 R 41-260NS 200W		<5			0.3
S1 R 41-140NS 05OE		15	6.0		0.5	S1 R 41-260NS 250W		<5			0.4
S1 R 41-140NS 00NF		<5			0.5	S1 R 41-260NS 300W		<5			0.5
S1 R 41-140NS 050W		<5			0.5	S1 R 41-260NS 350W		7			0.3
S1 R 41-160NS 100W		<5			0.9	S1 R 41-280NS 400W		<5	9.0		0.3
S1 R 41-160NS 39OE		<5			0.3	S1 R 41-280NS 450W		<5			0.5
S1 R 41-160NS 35NF		<5			0.7	S1 R 41-280NS 35NF		<5			0.1
S1 R 41-160NS 30OE		<5			0.5	S1 R 41-280NS 30OE		5			0.3
S1 R 41-160NS 25OE		<5			0.3	S1 R 41-280NS 050F		<5			0.2
S1 R 41-160NS 20OE		<5			0.2	S1 R 41-280NS 00NF		<5			0.2
S1 R 41-160NS 15NF		<5			0.2	S1 R 41-280NS 150W		<5			0.2
S1 R 41-160NS 05OE		20			0.6	S1 R 41-280NS 200W		<5			0.5
S1 R 41-160NS 00NF		<5			0.8	S1 R 41-280NS 250W		5			0.4
S1 R 41-160NS 050W		<5			0.4	S1 R 41-280NS 300W		<5			0.6
S1 R 41-160NS 100W		<5	9.0		0.4	S1 R 41-280NS 400W		<5			0.4
S1 R 41-240NS 39OE		<5	6.0		0.3	S1 R 41-280NS 500W		<5			0.8
S1 R 41-240NS 35NF		<5			0.2	S1 R 41-280NS 550W		7			0.5
S1 R 41-240NS 30OE		<5			0.2	S1 R 41-280NS 650W		7	6.0		0.4
S1 R 41-240NS 20NF		<5			0.2	S1 R 41-280NS 750W		<5	6.0		0.3
S1 R 41-240NS 10OE		<5			0.7	S1 R 41-300NS 800W		<5	8.0		0.3
S1 R 41-240NS 00NF		<5			0.2	S1 R 41-300NS 850W		<5			0.9
S1 R 41-240NS 200W		<5			0.2	S1 R 41-300NS 39OE		<5			0.6
S1 R 41-240NS 250W		<5			0.9	S1 R 41-300NS 35NF		<5	7.0		0.9
S1 R 41-240NS 300W		<5			0.3	S1 R 41-300NS 30OE		<5			0.2

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SAMPLE NUMBER	ELEMENT UNITS	Au PPR	Au/wt G	Au/wt G	Ag PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPR	Au/wt G	Au/wt G	Ag PPM
S1 R 41-300NS	25NE	<5			0.4	S1 R 41-340NS	35NW	<5			1.7
S1 R 41-300NS	21NF	5			0.3	S1 R 41-340NS	45NW	<5			0.2
S1 R 41-300NS	10NE	11			0.4	S1 R 41-340NS	50NW	<5			0.6
S1 R 41-300NS	05NF	<5			0.4	S1 R 41-340NS	55NW	6	5.0		0.3
S1 R 41-300NS	00N	<5			0.3	S1 R 41-340NS	65NW	<5			0.3
S1 R 41-300NS	05NW	9			0.1	S1 R 41-340NS	70NW	<5			0.2
S1 R 41-300NS	10NW	18			0.1	S1 R 41-340NS	80NW	<5			0.2
S1 R 41-300NS	15NW	<5			0.3	S1 R 41-340NS	85NW	<5	5.0		0.2
S1 R 41-300NS	20NW	13			0.3	S1 R 41-340NS	95NW	<5	8.0		0.2
S1 R 41-300NS	25NW	<5	8.0		0.6	S1 R 41-370NS	39NF	<5	7.0		0.2
S1 R 41-300NS	30NW	19			0.3	S1 R 41-370NS	30NE	<5			0.5
S1 R 41-300NS	35NW	20			0.4	S1 R 41-370NS	15NF	<5			0.3
S1 R 41-300NS	40NW	9			0.4	S1 R 41-370NS	10NE	<5			0.1
S1 R 41-300NS	45NW	<5			0.2	S1 R 41-370NS	00N	<5			0.2
S1 R 41-300NS	50NW	31			0.6	S1 R 41-370NS	05NW	<5			0.5
S1 R 41-300NS	55NW	16			0.3	S1 R 41-370NS	15NW	<5			0.2
S1 R 41-300NS	65NW	13			1.5	S1 R 41-370NS	20NW	<5			0.5
S1 R 41-300NS	70NW	<5			0.4	S1 R 41-370NS	30NW	<5	8.0		0.2
S1 R 41-300NS	75NW	10	6.0		0.4	S1 R 41-370NS	45NW	<5	3.0	7.0	1.2
S1 R 41-300NS	85NW	<5	6.0		0.3	S1 R 41-370NS	65NW	<5			0.2
S1 R 41-320NS	39NE	7	7.0		1.0	S1 R 41-370NS	70NW	<5			0.3
S1 R 41-320NS	30NF	<5			0.4	S1 R 41-370NS	75NW	<5			0.2
S1 R 41-320NS	15NE	<5			0.5	S1 R 41-370NS	80NW	<5			0.3
S1 R 41-320NS	05NF	<5			0.3	S1 R 41-370NS	85NW	<5			0.2
S1 R 41-320NS	10NW	<5	8.0		0.5	S1 R 41-370NS	95NW	5			0.3
S1 R 41-320NS	20NW	<5			0.1	S1 R 41-420NS	95NW	<5	2.0	8.0	0.4
S1 R 41-320NS	30NW	9			0.6	S1 R 41-420NS	100NW	<5			0.4
S1 R 41-320NS	55NW	16			0.7	S1 R 41-420NS	105NW	<5			0.3
S1 R 41-320NS	65NW	<5			0.5	S1 R 41-420NS	110NW	5			0.2
S1 R 41-320NS	70NW	17	3.0	7.0	1.6	S1 R 41-420NS	115NW	9			0.3
S1 R 41-320NS	75NW	5	8.0		1.6	S1 R 41-440NS	39NE	<5			0.3
S1 R 41-320NS	80NW	<5			0.3	S1 R 41-440NS	35NF	8			0.3
S1 R 41-320NS	85NW	<5			0.2	S1 R 41-440NS	25NE	<5	3.0	7.0	0.4
S1 R 41-320NS	95NW	<5			0.2	S1 R 41-440NS	20NF	<5			0.2
S1 R 41-340NS	15NE	<5	2.0	8.0	0.8	S1 R 41-440NS	15NE	6	2.0	8.0	0.2
S1 R 41-340NS	10NF	<5			0.3	S1 R 41-440NS	10NF	<5			0.3
S1 R 41-340NS	05NE	<5	5.0		0.2	S1 R 41-440NS	05NE	5			0.1
S1 R 41-340NS	15NW	<5	8.0		0.1	S1 R 41-440NS	00N	<5			0.5
S1 R 41-340NS	20NW	<5			0.1	S1 R 41-440NS	10NW	5			0.4
S1 R 41-340NS	25NW	<5			0.2	S1 R 41-440NS	20NW	9			0.4

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 V7P 2R5  
 (4) 985-0681 Telex 04-352667



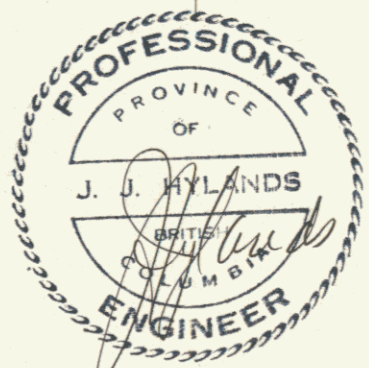
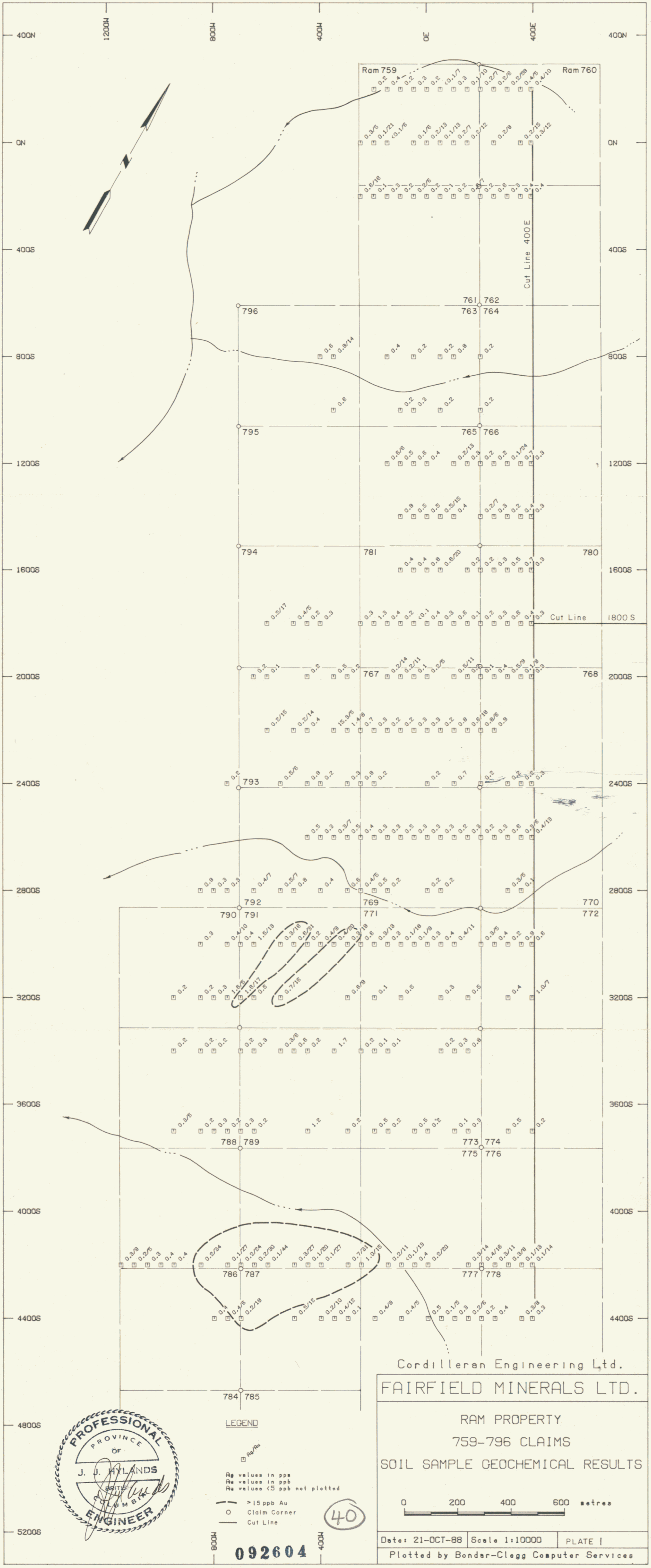
Geochemical  
 Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	Ag PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	Ag PPM
S1 R 41-440NS	300W	<5	7.0		0.1						
I R 41-440NS	350W	12			0.4						
LI R 41-440NS	400W	10	6.0		0.2						
S1 R 41-440NS	500W	12			0.5						
R 41-440NS	700W	18			0.2						
S1 R 41-440NS	750W	6	5.0		0.4						
SI R 41-440NS	800W	<5	3.0	7.0	0.4						



**LEGEND**

□ Ag/Au

Ag values in pps  
 Au values in ppb  
 Au values < 5 ppb not plotted

— > 15 ppb Au

○ Claim Corner

— Cut Line

Cordilleran Engineering Ltd.  
**FAIRFIELD MINERALS LTD.**

RAM PROPERTY  
 759-796 CLAIMS  
 SOIL SAMPLE GEOCHEMICAL RESULTS

0 200 400 600 metres

Date: 21-OCT-88 Scale 1:10000 PLATE I  
 Plotted by Bondar-Clegg Computer Services

092604

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