

ASSESSMENT REPORT:

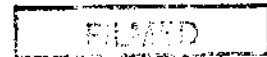
GEOLOGY AND GEOCHEMISTRY

GEOPHYSICS

URSA PROPERTY

OMINECA

NTS M93N/9E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,872

Part 1 of 2

BY

ARTHUR A.D. HALLERAN

SEPTEMBER 13, 1988

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INTRODUCTION

In July 1988 Northwest Geological Consulting Ltd. was commissioned by Chevron Minerals Ltd. to carry out grid geochemical soil sampling, scintillometer survey and geological mapping over favorable areas on the companys' Ursa Property in the Manson Creek area of B.C. The field work was carried out during the period from June 25 to July 13, 1988. The field party consisted of two geologists, Uwe Schmidt and Arthur A.D. Halleran and a field assistant, John Lambert.

A total of 407 soil samples were taken over 4 small grids at sample intervals of 50 metres along east-west lines spaced at 100 metre intervals. The grids were mapped and a scintillometer survey was conducted using the Urtec Threshold Scintillometer UG 130.

PROPERTY, LOCATION AND ACCESS

The Ursa Property consists of 3 groups totalling 245 units and 4 fractional claims. The claims are located in central British Columbia approximately 160 km north of Ft. St. James on Mount Eisson within the Finlayson Mountain Range. Access to the area is via the Fort St. James-Manson Creek road and the Munro Creek Logging road.



CHEVRON MINERALS LTD.

**LOCATION
URSA PROPERTY**

Northwest Geological Consulting Ltd.

Scale	Date	NTS	Fig. No.
1:7000000	Sep. 88	93N/9	1

The property was staked by a prospecting partnership- A.A.D. Halleran, A.D. Halleran and U. Schmidt. Chevron Minerals Ltd. have an option to acquire 100% interest in the claims.

The property is located on 3 map sheets: M93N/9E, M93O/12W, M93O/5W and the geographic coordinates of the property are 55 30'N latitude and 124 22' W longitude.

The claims were grouped in 3 groups for the purpose of assessment:

GROUP 1 LAURA GROUP 100 UNITS

CLAIM	UNITS	RECORD NUMBER	RECORD DATE/EXPIRY
Ursa 2	16	8420	June 4/1987
Ursa 3	9	8421	June 4/1987
Ursa 9	20	9117	Oct. 20/1987
Ursa 10	20	9118	Oct. 20/1987
Ursa 11 Fr.	1	9119	Oct. 20/1987
Laura 1	2 Post	8790	Aug. 14/1987
Laura 2	2 Post	8791	Aug. 14/1987
Laura 3	20	8801	Sept. 8/1987
Laura 4	12	8802	Sept. 8/1987

GROUP 2 URSA GROUP 83 UNITS

CLAIM	UNITS	RECORD NUMBER	RECORD DATE/EXPIRY
Mon 1	12	6380	July 16/1984
Mon 2	8	6381	July 16/1984
Ursa 1	6	8050	Oct. 24/1987
Ursa 4	6	8607	July 27/1987
Ursa 5	12	8686	Aug. 14/1987
Ursa 6	12	8687	Aug. 14/1987
Ursa 7	6	8588	Aug. 14/1987
Ursa 8	13	9116	Oct. 20/1987
Ursa 12	FR.	9120	Oct. 20/1987
Ursa 13	FR.	9121	Oct. 20/1987
Ursa 14	FR.	9122	Oct. 20/1987

<u>GROUP 3</u>	<u>WILL GROUP</u>	<u>66 UNITS</u>	
<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD NUMBER</u>	<u>RECORD DATE/EXPIRY</u>
Will 1	2-post	8792	Aug. 19/87
Will 2	2-post	8793	Aug. 19/1987
Will 3	2-post	8794	Aug. 19/1987
Will 4	2-post	8795	Aug. 19/1987
Will 5	2-post	9095	Oct. 20/1987
Will 6	2-post	9096	Oct. 20/1987
Will 7	2-post	9097	Oct. 20/1987
Will 8	2-post	9098	Oct. 20/1987
Will 9	20	9318	March 25/1988
Will 10	20	9319	March 25/1988
Will 11	18	9320	March 25/1988

HISTORY

In 1983 the Carb and AH claims were staked by A.A.D. Halleran. Then in June 1984 the Mon claims were staked to cover a graphite bearing limestone. In the fall of 1986 the Ursa #1 claim was staked by A.A.D. Halleran to cover a rare earth showing. In 1987 further land was assembled by the prospecting partnership, along with a small prospecting program conducted in 1987 which outlined several promising rare earth showings.

REGIONAL GEOLOGY

The Laura Showing is hosted by the Wolverine Metamorphic Complex, mainly mica schists, micaceous quartzite, gneisses, augen gneisses and crystalline limestone. Just to the west across the Munro Creek Valley the Cache Creek Group outcrops.

The main unit within the area of study is the Wolverine Metamorphic Complex. The eastern edge of the complex is a thrust sheet (Muller 1961) while the western contact between the Manson Creek belt of the Cache Creek Group and Wolverine Metamorphic Complex is a fault (Armstrong 1949) travelling up the Munro Creek Valley.

The Wolverine Complex is divided into three mappable units trending northwest across the area. The three units starting at the northern core are:

- 1) A sequence of granitic gneiss, augen gneisses, granodiorite, minor biotite schists, quartz-mica schists and pegmatites. The pegmatites are coarse-grained and contain quartz, plagioclase, orthoclase, muscovite, biotite, garnet (Armstrong 1949) and some trace tourmaline and beryl (Domagala 1927). It is within this unit that the Laura Showings occur.

- 2) There is a central belt of mainly crystalline limestone ranging from coarse biotite calcite to graphitic grey calcite. The limestone is also in places blue-grey to creamy in color, coarsely crystalline, poorly bedded and commonly containing much sericite. There are areas of calcisilicate mineralization with diopside, epidote and some garnet. Minor gneiss and schists are present.

- 3) The southernmost unit is mainly biotite, muscovite, garnet schist with minor gneiss.

The age of the Wolverine Complex in this particular area was determined as Late Proterozoic and Lower Cambrian by Armstrong (1949). It should be noted that potassium-argon dating of Wolverine metamorphic rocks in the study area gave 69 to 43 million years (Tipper et al 1974) while an intrusive just south of the area was determined to be 78 million years old (Tipper et al 1974).

GEOLOGY OF GRIDS

LAURA GRID:

The geology was mapped on the main 1 km grid with 100 metre lines running east-west with 50 metre stations. A detailed mapping project was conducted within the main grid on a 10 metre by 10 metre spacing from 98+80E - 97+50E, 90+20N - 91+00N and is known as the detail grid. The smaller grid covers the 1987 Laura showing.

Detail Grid (Figure 4) 90+20N to 91+00N - 97+50E to 98E

Within the centre of the detail grid a 110 metre by 60 metre zone of alkalic alteration is present. There is also a monzonite intrusive in the southern half of the alteration.

The Wolverine biotite amphibolite appears to be the host rock and the alteration causes the amphibolite to become a banded aegirine-augite alkali-feldspar syenite.

Within the alkalic alteration area are 5 pegmatites-allanite-monzonite pegmatite, AMP (1), nepheline monazite pegmatite, NSP, quartz monazite pegmatite, QMP, magnetite monzonite pegmatite, MP and a quartz feldspar pegmatite, QFP.

Still within the detail grid but outside of the alteration are two more allanite pegmatites, AMP (2,3). Figure illustrates all the data in detail.

RARE EARTH MINERALIZATION DETAIL GRID

As indicated by the Ursa 2 and 3 Assessment Report, rare earths occur in the allanite-monzonite pegmatite and the banded aegirine-augite-alkali-feldspar syenite. This year further work was conducted to evaluate the rare earth potential by taking additional representative samples and chip samples (Refer to Figure 4).

Sample#	Rock Type	%Ree
UG-7831	AMP, (1) allanite monzonite pegmatite, a representative sample	.42
UG-7842	QMP, quartz monazite pegmatite, repr. samp.	.32
UG-7844	MP, magnetite pegmatite, repr. sample	---42ppm
UG-7837	ee, aegirine-augite-alkali-feldspar syenite	.14
UG-7843	ee, as above plus grey metal	.30

Chip Samples (refer to Figure)

Sample #	rx type	weight	width	%Ree
UG-7623	AMP (1)	8lb	34"	.16
UG-7624	AMP (1)	10lbs	34"tt	.04
UG-7625	ee	10lbs	28"tt	.64
UG-7626	ee	10lbs	16"tt	.07
UG-7627	AMP (2)	2lbs	44"	.04
UG-7628	ee	15lbs	41"tt	.13

note: tt = true thickness

note: rare earth mineralization is in the form of allanite and monazite.

MAIN GRID GEOLOGY (Refer to Figure 3 for details)

The Wolverine host rock consists of biotite schists and biotite amphibolites with some metasediments that appear to have been quartzites.

A previously unknown alkalic alteration (banded aegirine-augite alkali-feldspar syenite, ee2) was located in the northwest corner of the grid and runs west and south off the grid. The alkalic alteration covers an area of 200 metres by 200 metres. Within this alteration zone is a very mineralized allanite pegmatite, AMP (5), 93+25N. Also a grey syenite occurs here.

Also on the grid a very weakly mineralized allanite pegmatite, AMP 5, outcrops at 92+00N - 94+50E of which the size is at least 10s of metres square. Again at 94+00 - 93+55E another allanite pegmatite occurs. A large body of monzonite outcrops at 90+00N -95+00E and is 100 metres round.

RARE EARTH MINERALIZATION: LAURA MAIN GRID (Figure 3)

Sample #	Rock type	%Ree
UG-7848	high grade sample of mafic bands in a quartz banded rock	1.25%

Rocks from the new alkalic alteration zone ee (2)

UG-7850	ee, select sample with red crystals	.43%
UG-7851	grey syenite, .08% Nb rep. sample	.24%
UG-7909	ee, talus, rep. sample	.17%
UG-7910	ee, rep. sample, + grey metal, .1% Nb	.55%
UG-7911	AMP (4), select sample,	5.53%

WILL #2

The grid consisted of 6 east-west lines 500 metres long and 100 metres apart with stations at 50 metre intervals.

GEOLOGY (Refer to Figure 5 for detail data on geology)

Outcrop was scarce and the mapping was confined to a 140 metre by 110 metre area in the center of the geochemical grid.

The geology consists of an alternating sequence, 10 - 20 metres wide striking NW and dipping 45-65 SW of monzonite, pegmatites and alkalic units. The alkalic units are mainly aegirine-augite monzodiorite with alkali-feldspar syenite dykes, aegirine-augite syenite dykes and alkalic-feldspar-aegirine-augite syenite dykes.

The monzonite is altered to the aegirine-augite monzodiorite which has numerous alkalic dykes. The monzonite appears to have fragments of the aegirine-augite monzodiorite in it. The unaltered monzonite is associated with numerous pegmatites, quartz feldspar pegmatites and aegirine feldspar quartz pegmatite (also found in the altered monzonite unit) and quartz pegmatite.

There are some alkalic dykes within the pegmatite areas which appear to run parallel to the strike and dip of the main sequence. The AFAASD contains chalcopyrite, malachite and magnetite in trace amounts.

RARE EARTH MINERALIZATION WILL #2 GRID

Sample #	Rock type	%Ree
UG-7802	aegirine-augite syenite dyke	-----
UG-7809	amphibolite trace alkalic alter.	-----
UG-7812	Qtz. vein + hematite, magnetite	-----
UG-7813	alteration zone	.50%
UG-7816	Rare Earth Dyke	.80%
UG-7821	monzonite aplite, slight alter.	.07%
UG-7823	aegirine-augite monzodiorite	.13%

WILL #1 Grid

GEOLOGY (Refer to Figure 7)

The grid is 5 east-west lines 500 metres long running and spaced every 100 metres. Sample locations were every 50 metres along the line.

Outcrop is scarce but a small exposure at 163+80N to 164+50N - 73+40E to 74+00E, surrounded by Wolverine gneisses, has two alkali-feldspar aegirine-augite syenite dykes with a rare earth bearing mafic aegirine-augite syenite dyke. A syenite breccia with a green, fine grained matrix (metasomatized) is found partly around the alkali rocks. A monzonite is found between the alkali units and the Wolverine metaseds. Interfingering with the alkalic units are biotite schists, biotite quartz schists, and biotite quartz feldspar schists.

URSA GRID

GEOLOGY (Refer to Figure 8)

The grid consists of 6 lines running east-west 500 metres at 100 metre intervals. Sample locations are every 50 metres along the lines.

The Ursa showing is along a road cut and is a mylonite pegmatite (gneiss) 10 metres long and 1 to 2 metres wide. Coarse to fine-grained monazite is disseminated in clotty layers. The quartz is shattered and black due to the radioactivity of the monazite.

The monazite-bearing rock is bounded on its western side by a fine-grained, radioactive, light colored syenite with

traces of biotite. The syenite appears to have cut across the mylonite pegmatite. The remaining rock types are fine-grained calcsilicate rocks containing so much biotite/phlogopite that the rock appears black. Also present in the calcsilicate is a green mineral (2%) that could be diopside or epidote. The mylonite zone cannot be found eastward due to glacial till. The only other rock that has any rare earth minerals in it is a pegmatite at 56+50N to 57+00N - 87+00E to 87+50E, UG-7923 .23% REE.

LAURA GRID GEOCHEMISTRY

Generally soil samples were taken from the "B" horizon at 15-25 cm depths with a tree planter shovel!

A total of 176 soil samples were taken on the Laura Grid and they were analyzed for Cu, Zn, Co, Sr, Zr, Ce, Y, Nb and Ta. The main elements of concern in this area are Sr, Ce and Nb. These elements will detect most of the rare earth environments.

Ce will most likely travel in the soil as a mechanical grain while Sr is more soluble.

Sr Anomalies

The whole grid is anomalous in Sr so anomalous that the >400 ppm contour had to be used to define areas of interest.

---89+00N to 95+00N - 95+50E to 105+50E.

The center of the grid has a 600 by 600 metre anomaly which is over the Laura showing. There is a high of 1191 ppm at 90+00N - 98+50E which is just 20 metres south of the detail grid. Along with the 1191 ppm Sr there is also a 32 ppm Nb. Another high of 1037 ppm Sr at 92+00N -100+00E and a 757 ppm Sr at 91+00N -96+00E is over the talus zone at UG-58.

---94+00N-93+00E 1050 ppm Sr, 79 ppm Nb just north of the new alkalic area, on the northwest part of the grid.

---90+00N-93+50E 576 ppm Sr, a spot high

---92+00N-94+00E to 94+50E, 75 by 50 metre Sr anomaly with 53 ppm Nb, outlines an allanite pegmatite, (AMP 5).

---92+00N -93+00E spot high 421 ppm Sr and 22 ppm Nb open to the west. This is the new alkalic alteration zone of interest.

---90+00N to 91+50N-101+00E to 102+00E 596 ppm Sr spot high, no outcrop.

Ce Geochemical Soil Anomaly (Refer to Figure 30)

The threshold was 75 ppm Ce but anomalous is >100 ppm. There are 5 Ce anomalies within the large 600 X 600 metre Sr anomaly. A spot high of 174 ppm Ce is found with the 1191 ppm Sr anomaly, 90+50N to 98+00N - 99+00E to 98+00E

---91+00N -96-00E has a spot high of 464 ppm Ce which coincides with a 757 ppm Sr.

---93+00N to 94+00N - 96+50E, two point anomaly 151 ppm, 172 ppm Ce.

---92+25N to 94+50N -101+00E to 101+50E. The eastern wing of the large Sr high is defined by a 250 X 50 metre anomaly ---92+50N to 94+50N -98+00E to 100+50E; the northern part of the large Sr anomaly is defined by a 200 X 300 metre Ce anomaly with a high of 204 ppm Ce.

Other anomalies occurring outside of the large Sr anomaly are:

---92+00N-102+00E, spot high of 100 ppm Ce offsetting a 596 ppm Sr.

---92+50N to 95+00N-93+00E to 94+00E, 250 metres X 150 metres but open to the west, 149 ppm Ce, coincides with a Sr high and also the new alkalic alteration area.

GEOCHEMISTRY WILL #2

A total of 65 soils were taken over the Will #2 grid. Sr Anomalies: anomalous was considered to be >325 ppm Sr

---155+00N - 52+00E a high of 400 ppm, just east of a Ce anomaly.

---153+00N - 51+00E, just east of a Ce anomaly

---154+00 to 155+00N - 54+00E to 54+00E, a large low anomaly over the showing and a high Ce anomaly.

Ce Soil Anomaly

Using 75 ppm Ce as anomalous would almost cover the entire grid; even using 100 or 150 ppm Ce good anomalies occur. This grid is very anomalous for Ce.

- 153+00N to 151+50N - 56+00E curving to 52+50E, 300 metres by 200 metres with numerous Ce high in it, 239, 411, 181 ppm. This anomaly is just south of the geological mapping.
- 153+00N to 152+00N - 50+50E, a high of 176 ppm Ce and run off the map
- 155+00N-51+50E, 240 ppm Ce anomaly runs off the grid.
- 155+00N-54+00E, 165 ppm Ce, anomaly runs off the grid.

WILL #1 Geochemistry

A total of 65 soil samples were taken over this grid.

Sr Anomalies

The 400 ppm Sr contour defines anomalous areas on this grid.

- 163+00N to 165+00N-73+50E to 75+00E, 250 metres by 75 metres, has a high of 970 ppm Sr right at the showing.
- 162+00N -76+00E, high of 498 ppm Sr, just east of a Ce anomaly.
- 164+00N-72+00E, spot high of 507 ppm Sr.

Ce Anomalies

The 75 ppm contour was used to define anomalous areas.

- 162+00N - 75+50E, 100 metres round 161 ppm Ce
- 163+50N to 164+00N - 72+50E, high of 146 ppm Ce
- 161+00N- 73+50E, spot high 143 ppm Ce on west edge of grid
- 162+00N-71+50E, 144 ppm high on edge of grid
- 165+00N -71+50E, 102 ppm Ce on edge of grid.

URSA GEOCHEMISTRY

A total of 65 soils were taken over this grid.

Sr anomalies

- 60+00N - 87+00E, spot high of 393 ppm Sr with a 29 ppm Nb
- 57+00N - 85+00E, spot high of 344 ppm Sr with a Ce high
- 60+00N - 83+50E to 84+50, 379 to 400 ppm Sr roughly coincide with a Ce high.

Ce Anomalies (a low of 50 ppm is anomalous over this grid)

- 57+00N to 57+50N - 85+00E, 50 ppm Ce is over the Ursa showing.
- 60+00N - 84+00E, spot high of 102 ppm Ce
- 58+00N to 60+00N - 85+00E, 50 ppm high

CREEK PANNING CONCENTRATES (FIGURE 10)

Twenty-four creek panning concentrates were pulverized and analyzed as soils to see if the creeks from the known showings were anomalous in rare earths. The results were inconclusive except for the fact that dilution plays a very big role in the creek anomalies. The result is that the main creeks have no detectable rare earth response.

GEOPHYSICS

An UG130 Urtec threshold scintillometer was used to record all energy above 0.08 MeV average over a 10 second count interval as a mapping tool. The varying amount of till caused the scintillometer to be ineffective.

DISCUSSION OF RESULTS

The soil geochemistry of Ce and Sr define the known showings very well. However, it must be taken into consideration that Ce is insoluble and therefore unlikely to be very mobile. Sr appears to be more mobile as the anomalies are larger. Every grid had to be examined to decide what concentration was anomalous. The Ursa grid for example was very low, 50 ppm Ce, but still the showing was defined.

On the other hand, the Laura Grid had >100 ppm Ce for anomalous areas.

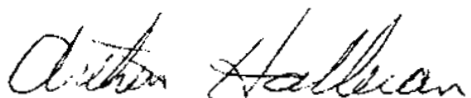
RECOMMENDATIONS

- Extend the Laura Grid west to include the new alkalic alteration; include mapping and soil geochemistry.
- Investigate the anomalous soil areas by more detail mapping and sampling.
- Do more geology on the Laura Showing and trench the detail mapped area.

CERTIFICATION OF QUALIFICATIONS

I, Arthur A. D. Halleran, of 7183 Bridgewood Dr. Burnaby,
B.C. do hereby declare:

- I am a 1980 graduate of the University of British Columbia
with an Honours B.Sc. degree in Geology
- I have practiced my profession continuously since
graduation in the Yukon, B.C. and Alberta.
- This report is based on my field examination of the
property and available government reports.



Arthur A. D. Halleran

BIBLIOGRAPHY

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- Domage V. (1927) Finlay River District, B.C.; Summary Report 1927 Part A, pp. 19-41.
- Tipper H.W., Campbell R.B., Taylor G.C., Stott D.F. (1974) Parsnip River, B.C., Map 142A, Sheet 93, GSC 1974.

STATEMENT OF EXPENDITURE

WILL GROUP

I) FIELD COSTS * indicates pro rated cost

1) LABOUR

U. Schmidt (Geologist) June 26, 27
2 days at \$300/day.....\$600.00

A. Halleran (Geologist) June 26, 27, 28
3 days at \$250/day.....\$750.00

J. Lambert (Field Assistant) June 26, 27, 28, 29
4 days at \$150/day.....\$600.00

2) ROOM AND BOARD
9 days at \$40/day.....\$360.00

3) TRANSPORTATION

1 Suburban 4x4
17 days @ \$55/day.....\$935.00

1 Ford pickup with canopy
17 days @ \$25/day.....\$425.00

\$1360.00 *\$360.40

4) CONSUMABLES AND FIELD SUPPLIES.....\$1016.85 *\$269.47

5) EQUIPMENT RENTAL.....\$714.00 *\$189.21

7) MOBE/DEMOBE VANCOUVER.....\$704.73 *\$186.75

8) MOBE/DEMOBE FT. ST. JAMES.....\$2334.42 *\$613.62

9) GEOCHEMICAL ANALYSIS AND ASSAY
130 soil geochem at \$8.35.....\$1085.50
7 rock geochem at \$23.00.....\$161.00
4 panning geochem at \$15.50.....\$62.00

10) COMPANY REPRESENTATIVE FIELD VISIT
Sandy McAllister (Geologist) July 10, 11, 12, 13
truck rental, air flight, fuel, meals
hotel.....\$1533.58 *\$406.40

II. OFFICE COSTS

1) Data interpretation, plotting and report writing

U. Schmidt (Geologist) Aug. 24, 26, Sept. 30
3 days at \$300/day.....\$900.00

A. Halleran (Geologist) Aug. 24, 26, Sept. 7,
8, 10, 11, 13, 18, 21, 24, 25, 28,
12 days at \$250/day.....\$3000.00

2) Drafting.....\$1849.00

3) Reproduction.....\$359.00

\$6408.00 *\$1698.12

TOTAL \$7347.47

STATEMENT OF EXPENDITURE

URSA GROUP

I) FIELD COSTS * indicates pro rated cost

1) LABOUR

U. Schmidt (Geologist) July 6,7,8,9,10,11,12
7 days at \$300/day.....\$2100.00

A. Halleran (Geologist) June 29,30,July 6,9,10,11,12
7 days at \$250/day.....\$1750.00

J. Lambert (Field Assistant) June 30,July 10,11,12
3 days at \$150/day.....\$450.00

W. Halleran (Geologist) July 2
1 day at \$250/day.....\$250.00

2) ROOM AND BOARD
17 days at \$40/day.....\$640.00

3) TRANSPORTATION

1 Suburban 4x4
17 days @ \$55/day.....\$935.00

1 Ford pickup with canopy
17 days @ \$25/day.....\$425.00

\$1360.00 *\$469.20

4) CONSUMABLES AND FIELD SUPPLIES.....\$1016.85 *\$350.81

5) EQUIPMENT RENTAL.....\$714.00 *\$246.33

7) MOBE/DEMOBE VANCOUVER.....\$704.73 *\$243.13

8) MOBE/DEMOBE FT. ST. JAMES.....\$2334.42 *\$805.38

9) GEOCHEMICAL ANALYSIS AND ASSAY

34 soil geochem at \$8.35.....\$701.40

1 rock geochem at \$23.00.....\$23.00

10 panning geochem at \$15.50.....\$155.00

10) COMPANY REPRESENTATIVE FIELD VISIT

Sandy McAllister (Geologist) July 10, 11, 12, 13
truck rental, air flight, fuel, meals
hotel.....\$1533.58 *\$529.09

II. OFFICE COSTS

1) Data interpretation, plotting and report writing

U. Schmidt (Geologist) Aug. 24, 26, Sept. 30
3 days at \$300/day.....\$900.00

A. Halleran (Geologist) Aug. 24, 26, Sept. 7,
8, 10, 11, 13, 18, 21, 24, 25, 28,
12 days at \$250/day.....\$3000.00

2) Drafting.....\$1849.00

3) Reproduction.....\$359.00

\$6408.00

*\$2210.76

TOTAL

\$10923.70

STATEMENT OF EXPENDITURE

LAURA GROUP

1) FIELD COSTS * indicates pro rated cost

1) LABOUR

U. Schmidt (Geologist) June 28,29,30 July 1-5
8 days at \$300/day.....\$2400.00

A. Halleran (Geologist) July 1,2,3,4,5,6,7
7 days at \$250/day.....\$1750.00

J. Lambert (Field Assistant) July 2,3,4,5,6,7,8,9,
8 days at \$150/day.....\$1200.00

2) ROOM AND BOARD
23 days at \$40/day.....\$920.00

3) TRANSPORTATION

1 Suburban 4x4
17 days @ \$55/day.....\$935.00

1 Ford pickup with canopy
17 days @ \$25/day.....\$425.00

\$1360.00 *\$516.80

4) CONSUMABLES AND FIELD SUPPLIES.....\$1016.85 *\$386.40

5) EQUIPMENT RENTAL.....\$714.00 -

7) MOBE/DEMOBE VANCOUVER.....\$704.73 *\$252.81

8) MOBE/DEMOBE FT.ST.JAMES.....\$2334.42 *\$887.08

9) GEOCHEMICAL ANALYSIS AND ASSAY

176 soil geochem at \$8.35.....\$1463.60

12 rock geochem at \$23.00.....\$276.00

10 panning geochem at \$15.50.....\$155.00

10) COMPANY REPRESENTATIVE FIELD VISIT

Sandy McAllister (Geologist) July 10, 11, 12, 13
truck rental, air flight, fuel, meals
hotel.....\$1533.58 *\$532.76

II. OFFICE COSTS

1) Data interpretation, plotting and report writing

U. Schmidt (Geologist) Aug. 24, 26, Sept. 30
3 days at \$300/day.....\$900.00

A. Halleran (Geologist) Aug. 24, 26, Sept. 7,
8, 10, 11, 13, 18, 21, 24, 25, 28,
12 days at \$250/day.....\$3000.00

2) Drafting.....\$1849.00

3) Reproduction.....\$359.00

\$6408.00 *\$2435.04

TOTAL \$13511.80

APPENDIX A

WHOLE ROCK ICP ANALYSIS

A .1000 GRAM SAMPLE IS FUSED WITH .60 GRAM OF LiBO2 AND IS DISSOLVED IN 50 MLS 5% HNO3.

- SAMPLE TYPE: P1-12 SOIL P13 ROCK P14 PAN CON.

DATE RECEIVED: JUL 22 1988 DATE REPORT MAILED: Aug 13/88 ASSAYER: *C. Long* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORTHWEST GEOLOGICAL PROJECT 139 File # 88-2910 Page 1

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7001	30	87	65	35	311	279	99	23	20	20
UG 7002	31	74	61	18	308	214	135	24	20	20
UG 7003	20	51	42	16	402	261	118	17	20	20
UG 7004	29	71	39	19	372	295	240	23	20	24
UG 7005	34	72	44	17	344	307	122	29	20	20
UG 7006	14	56	33	15	296	364	133	25	20	20
UG 7007	22	88	37	22	276	265	57	20	20	20
UG 7008	17	81	48	24	330	300	165	23	20	20
UG 7009	23	67	42	20	312	262	61	24	20	20
UG 7010	20	75	43	22	332	306	100	21	20	20
UG 7011	22	61	45	22	316	273	127	27	20	20
UG 7012	11	59	34	18	300	374	67	24	20	20
UG 7013	25	76	41	18	356	322	53	34	20	20
UG 7014	24	59	35	11	339	272	61	18	20	20
UG 7015	15	60	41	23	340	323	116	24	20	20
UG 7016	20	107	40	19	310	263	85	21	20	20
UG 7017	26	61	30	22	324	241	88	24	20	20
UG 7018	24	57	36	22	305	260	39	24	20	20
UG 7019	22	58	31	14	363	336	81	19	20	20
UG 7020	28	59	38	17	381	322	48	29	20	20
UG 7021	25	82	39	22	383	268	84	24	20	20
UG 7022	15	74	35	21	305	401	56	22	20	20
UG 7023	23	68	44	17	358	290	128	21	20	20
UG 7024	37	95	59	24	341	271	54	15	20	20
UG 7025	19	101	48	24	299	272	44	23	20	20
UG 7026	17	62	29	16	328	265	88	22	20	20
UG 7027	15	41	22	16	395	234	76	12	20	20
UG 7028	30	68	38	14	344	220	176	26	20	21
UG 7029	13	96	40	22	317	292	111	22	20	20
UG 7030	19	63	38	21	353	316	160	30	20	20
UG 7031	6	58	45	11	300	300	129	19	20	20
UG 7032	9	78	37	18	298	246	178	15	20	20
UG 7033	5	39	18	15	303	275	239	15	20	20
UG 7034	7	58	30	15	336	265	411	22	20	20
UG 7035	24	66	41	20	322	228	99	43	20	20
UG 7036	14	65	17	14	348	197	181	11	20	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7037	5	55	21	9	296	218	43	35	20	20
UG 7038	8	44	22	9	271	355	102	52	20	20
UG 7039	5	60	21	13	281	360	20	28	20	44
UG 7040	6	67	23	13	290	245	20	26	20	20
UG 7041	10	69	28	14	282	264	60	35	20	20
UG 7042	11	57	32	14	330	272	112	30	20	20
UG 7043	14	52	35	14	272	230	36	28	20	20
UG 7044	6	44	22	9	313	311	93	29	20	20
UG 7045	22	68	33	9	279	257	20	27	20	20
UG 7046	13	78	27	13	303	245	77	25	20	20
UG 7047	46	73	19	9	327	266	96	31	20	20
UG 7048	21	71	33	14	281	274	20	36	20	20
UG 7049	15	71	27	15	251	181	26	25	20	20
UG 7050	10	67	30	16	265	364	93	41	20	20
UG 7051	14	60	29	14	309	240	38	34	20	20
UG 7052	12	61	28	13	308	206	20	24	20	20
UG 7053	20	65	44	17	307	277	98	38	20	20
UG 7054	19	70	20	13	291	269	20	31	20	20
UG 7055	17	79	26	17	304	298	178	38	20	20
UG 7056	19	63	28	9	315	228	82	26	20	20
UG 7057	49	95	52	18	298	194	54	30	20	63
UG 7058	11	49	20	7	368	239	60	27	20	20
UG 7059	12	81	21	12	234	259	20	31	20	20
UG 7060	15	56	26	11	291	262	86	33	20	20
UG 7061	25	57	26	14	337	351	104	38	20	20
UG 7062	47	102	57	25	272	249	70	33	20	40
UG 7063	34	71	36	14	296	194	94	39	20	20
UG 7064	20	109	35	16	306	236	165	30	20	20
UG 7065	52	2311	66	17	289	309	153	52	20	24
UG 7066	19	61	14	15	330	289	45	27	20	20
UG 7067	23	77	31	12	304	234	25	23	20	26
UG 7068	21	87	29	13	278	229	20	23	20	42
UG 7069	25	82	25	15	353	235	57	26	20	24
UG 7070	26	92	50	18	387	157	72	27	20	26
UG 7071	25	82	38	18	429	240	67	25	20	21
UG 7072	24	165	38	19	374	199	44	25	20	31

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7073	35	32	19	15	369	262	20	32	20	20
UG 7074	34	48	41	22	410	259	98	24	21	20
UG 7075	42	106	86	36	423	157	37	23	20	20
UG 7076	37	54	25	14	303	195	20	23	20	20
UG 7077	33	48	31	10	342	248	20	23	20	20
UG 7078	32	38	23	14	353	262	67	19	20	20
UG 7079	25	25	12	13	411	283	20	27	20	20
UG 7080	40	81	27	13	544	190	91	22	20	20
UG 7081	30	10	7	8	493	359	20	19	20	20
UG 7082	30	54	17	15	381	323	69	20	20	20
UG 7083	33	25	12	11	416	263	71	20	20	20
UG 7084	47	53	23	16	387	234	48	23	20	20
UG 7085	41	51	24	14	431	205	20	18	20	20
UG 7086	44	91	50	20	413	214	63	26	20	20
UG 7087	28	13	8	12	658	224	204	16	20	20
UG 7088	32	60	16	17	448	252	35	23	20	20
UG 7089	33	42	18	12	425	286	62	19	20	20
UG 7090	41	87	26	14	437	234	151	21	20	20
UG 7091	39	70	32	12	352	177	73	18	20	20
UG 7092	34	67	83	25	321	145	20	19	20	20
UG 7093	26	34	8	13	347	281	89	20	20	20
UG 7094	31	41	21	16	345	243	20	22	20	20
UG 7095	33	59	23	16	372	248	132	20	20	20
UG 7096	28	54	31	11	357	278	114	20	20	20
UG 7097	79	190	67	42	1050	205	139	36	79	20
UG 7098	34	62	13	10	426	231	21	15	20	20
UG 7099	33	43	20	12	487	249	96	16	20	20
UG 7100	37	80	17	17	338	227	57	18	20	20
UG 7101	24	38	7	10	570	257	68	20	20	20
UG 7102	25	42	14	13	408	248	134	18	20	20
UG 7103	25	19	5	7	421	200	20	33	20	20
UG 7104	33	82	21	15	334	225	120	16	20	20
UG 7105	47	102	14	15	420	214	25	21	20	20
UG 7106	39	70	22	11	259	231	20	19	20	20
UG 7107	41	80	23	12	338	228	93	20	20	20
UG 7108	41	45	25	13	249	248	85	20	20	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7109	22	98	15	11	380	284	20	18	20	20
UG 7110	14	68	17	9	323	187	20	15	20	20
UG 7111	8	25	5	6	556	249	172	14	20	20
UG 7112	20	91	22	15	350	172	53	17	20	20
UG 7113	18	72	18	17	305	216	34	17	20	20
UG 7114	39	130	55	28	316	157	20	14	20	25
UG 7115	12	77	30	21	326	167	20	14	20	20
UG 7116	23	71	25	13	360	208	97	20	20	20
UG 7117	22	67	19	15	354	241	143	24	20	20
UG 7118	13	44	16	14	256	286	149	23	20	20
UG 7119	8	54	9	14	294	277	132	20	20	20
UG 7120	19	45	12	11	587	195	110	19	20	20
UG 7121	18	43	9	13	478	363	131	26	20	20
UG 7122	23	59	18	15	499	262	89	25	25	20
UG 7123	18	50	12	12	367	294	20	19	20	20
UG 7124	23	70	19	14	468	291	215	27	20	20
UG 7125	21	62	14	9	471	251	122	17	20	20
UG 7126	30	75	24	19	264	250	20	20	20	40
UG 7127	42	128	37	21	282	206	20	27	20	20
UG 7128	30	101	35	18	279	198	90	22	20	20
UG 7129	12	81	16	12	314	180	20	18	20	20
UG 7130	27	99	28	18	323	214	52	22	20	20
UG 7131	28	101	31	16	304	232	100	23	20	20
UG 7132	16	77	19	14	257	298	29	24	20	20
UG 7133	12	41	14	12	362	342	67	20	20	20
UG 7134	19	59	16	15	1037	206	24	18	20	20
UG 7135	20	57	29	17	316	211	20	20	20	20
UG 7136	22	68	33	12	310	173	20	18	20	20
UG 7137	29	66	18	14	430	337	20	23	20	20
UG 7138	20	71	17	16	411	224	20	33	20	20
UG 7139	9	31	6	11	423	302	20	20	20	20
UG 7140	24	184	31	19	564	136	51	34	20	20
UG 7141	20	90	15	17	393	332	20	23	20	20
UG 7142	24	66	21	15	365	298	20	24	20	20
UG 7143	25	57	18	11	317	252	20	22	20	20
UG 7144	26	112	26	16	372	224	20	27	23	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7145	38	122	22	37	498	181	52	28	53	20
UG 7146	21	104	51	13	510	357	53	21	20	20
UG 7147	23	119	18	19	293	301	39	28	20	20
UG 7148	51	161	54	27	421	262	30	32	22	20
UG 7149	55	186	52	18	353	238	47	29	24	20
UG 7150	33	114	19	12	299	268	20	29	20	20
UG 7151	39	141	38	17	343	208	46	24	20	20
UG 7152	32	141	23	6	333	200	35	19	20	20
UG 7153	39	128	33	9	289	261	44	26	20	20
UG 7154	31	125	22	12	271	264	20	23	20	20
UG 7155	97	163	33	18	352	300	23	22	20	20
UG 7156	24	134	18	7	364	301	29	27	20	20
UG 7157	42	131	9	6	596	260	59	22	20	20
UG 7158	73	233	31	13	319	259	20	26	20	20
UG 7159	33	127	22	6	344	227	37	20	20	20
UG 7160	36	177	45	19	285	187	20	22	20	20
UG 7161	29	169	30	17	321	228	20	26	20	20
UG 7162	40	162	27	26	465	285	20	24	20	20
UG 7163	21	111	32	16	392	215	20	15	20	20
UG 7164	24	107	21	23	455	289	20	25	21	20
UG 7165	28	111	42	17	385	269	20	21	20	20
UG 7166	15	64	11	11	337	232	34	16	20	20
UG 7167	35	138	54	21	372	234	20	22	20	20
UG 7168	16	123	42	14	301	242	20	19	20	20
UG 7169	32	90	17	11	1191	225	174	20	32	20
UG 7170	54	171	51	17	536	306	26	21	20	20
UG 7171	56	107	34	17	367	250	20	21	20	20
UG 7172	32	94	16	7	388	241	20	14	20	20
UG 7173	35	98	31	16	407	298	27	23	20	20
UG 7174	31	73	26	11	424	266	33	33	20	20
UG 7175	45	103	34	20	334	249	20	27	20	20
UG 7176	21	69	12	8	799	289	20	7	20	20
UG 7177	25	81	22	13	374	314	20	19	20	20
UG 7178	71	120	35	12	341	226	20	22	20	20
UG 7179	31	85	28	12	382	418	46	18	20	20
UG 7180	21	127	25	13	329	281	20	14	20	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7181	6	92	33	23	366	252	20	11	20	20
UG 7182	5	78	27	17	293	256	20	9	20	20
UG 7183	8	75	5	13	485	278	25	16	20	20
UG 7184	31	89	30	16	337	296	123	10	20	20
UG 7185	19	100	16	24	326	227	51	18	20	20
UG 7186	21	108	58	27	347	237	20	18	20	20
UG 7187	41	114	30	27	374	276	102	18	45	20
UG 7188	27	92	30	24	438	234	96	19	20	20
UG 7189	22	106	59	31	357	266	62	21	20	20
UG 7190	31	101	25	29	337	173	77	15	20	23
UG 7191	13	83	26	12	377	325	81	19	20	20
UG 7192	26	93	26	20	370	236	35	15	20	20
UG 7193	34	86	15	19	419	258	104	17	20	20
UG 7194	21	81	25	16	384	224	60	16	20	20
UG 7195	23	111	77	33	363	257	81	21	20	20
UG 7196	37	108	60	30	294	265	20	16	20	20
UG 7197	15	65	35	18	385	243	20	21	20	25
UG 7198	23	86	23	21	455	190	30	15	20	20
UG 7199	12	108	27	12	360	226	20	12	20	20
UG 7200	21	58	6	13	512	214	20	22	20	20
UG 7201	17	86	33	19	757	252	464	22	98	20
UG 7202	15	61	9	16	364	277	20	8	20	20
UG 7203	17	151	25	5	345	216	20	15	20	20
UG 7204	19	92	10	14	329	276	20	16	20	20
UG 7205	12	85	23	18	257	286	20	21	20	20
UG 7206	9	84	22	14	321	255	20	19	20	20
UG 7207	14	96	16	13	343	290	44	17	20	20
UG 7208	15	69	7	14	400	247	20	15	20	20
UG 7209	10	83	22	8	320	224	35	13	20	20
UG 7210	5	98	17	18	347	289	20	13	20	20
UG 7211	18	75	24	10	340	218	20	16	20	20
UG 7212	7	60	16	17	319	286	20	14	20	20
UG 7213	5	57	7	9	247	274	29	15	20	20
UG 7214	19	67	30	11	316	294	67	27	20	20
UG 7215	24	93	58	24	284	221	47	22	20	20
UG 7216	7	86	21	19	576	190	20	20	20	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7217	5	48	19	17	341	339	52	34	23	20
UG 7218	20	74	28	11	332	207	20	20	20	20
UG 7219	15	79	25	13	260	252	72	25	20	20
UG 7220	15	69	19	13	276	238	20	21	20	20
UG 7221	5	46	11	10	296	302	43	34	20	20
UG 7222	12	48	13	9	298	298	42	26	20	20
UG 7223	12	64	20	11	219	251	90	20	20	20
UG 7224	12	43	17	8	264	322	31	26	20	20
UG 7225	19	77	15	11	412	212	69	23	20	20
UG 7226	14	70	27	13	275	229	75	24	20	20
UG 7227	15	41	10	14	331	215	39	24	20	20
UG 7228	40	67	34	21	307	205	89	33	20	20
UG 7229	27	63	31	19	357	277	58	30	20	20
UG 7230	16	56	26	12	367	298	53	30	20	20
UG 7231	34	70	31	22	364	302	161	31	20	20
UG 7232	50	181	32	27	498	365	76	33	22	20
UG 7233	52	105	49	25	250	151	34	29	20	49
UG 7234	11	58	19	15	372	326	59	29	20	20
UG 7235	19	50	21	13	381	246	28	27	20	20
UG 7236	20	66	22	17	319	258	79	28	20	20
UG 7237	26	71	38	16	299	255	67	28	20	20
UG 7238	20	51	23	14	335	243	74	29	20	20
UG 7239	44	104	55	31	259	178	20	28	20	35
UG 7240	42	72	38	23	256	188	143	25	20	20
UG 7241	38	69	34	16	371	318	119	29	20	20
UG 7242	32	63	28	17	338	253	124	26	20	20
UG 7243	30	78	23	21	357	405	111	41	20	20
UG 7244	115	115	82	25	248	189	91	35	20	34
UG 7245	62	96	53	20	248	191	144	28	20	20
UG 7246	33	79	37	20	252	210	20	27	20	20
UG 7247	14	73	28	17	348	263	60	33	20	20
UG 7248	76	71	28	20	304	220	78	26	20	20
UG 7249	21	60	19	23	390	309	30	32	20	20
UG 7250	20	60	34	15	212	206	89	24	20	20
UG 7251	13	161	118	35	393	187	47	37	29	20
UG 7252	18	157	34	16	260	221	60	25	20	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7253	14	11635	27	20	251	245	53	29	20	20
UG 7254	20	107	37	27	234	253	41	27	20	20
UG 7255	7	75	22	17	264	356	20	37	20	20
UG 7256	18	110	26	27	241	288	20	35	20	20
UG 7257	25	125	69	36	223	264	82	33	20	20
UG 7258	53	295	43	24	215	264	20	30	20	20
UG 7259	27	145	44	22	218	239	22	32	20	20
UG 7260	10	133	28	19	311	333	23	32	20	20
UG 7261	37	110	51	29	281	257	20	36	20	20
UG 7262	32	129	49	27	273	178	20	33	20	20
UG 7263	28	88	52	27	241	171	54	32	20	20
UG 7264	22	104	24	15	293	131	20	22	20	20
UG 7265	101	122	31	20	379	202	102	30	20	20
UG 7266	23	93	29	28	400	196	23	24	20	20
UG 7267	29	76	24	20	209	306	44	33	20	20
UG 7268	5	59	15	14	282	380	20	30	20	20
UG 7269	13	125	30	18	318	279	20	30	20	20
UG 7270	17	75	32	15	322	308	48	27	20	20
UG 7271	14	68	25	15	294	238	67	33	20	20
UG 7272	19	62	12	17	287	189	20	24	20	20
UG 7273	36	113	58	28	249	258	20	29	20	20
UG 7274	10	75	33	16	280	233	20	29	20	20
UG 7275	13	114	26	19	241	239	20	21	20	20
UG 7276	12	74	35	12	251	163	20	23	20	20
UG 7277	198	91	37	23	272	218	20	29	20	20
UG 7278	5	44	19	12	223	387	43	44	20	20
UG 7279	15	49	7	10	233	284	20	23	20	20
UG 7280	19	125	33	18	171	198	64	22	20	20
UG 7281	11	85	29	17	177	241	20	36	20	20
UG 7282	19	81	22	22	204	195	20	24	20	20
UG 7283	18	99	29	22	219	210	20	29	20	20
UG 7284	11	86	33	23	213	274	51	37	20	20
UG 7285	30	56	17	7	229	255	37	26	20	20
UG 7286	13	77	28	14	192	453	20	32	20	20
UG 7287	16	83	23	17	226	259	20	22	20	20
UG 7288	5	39	17	15	202	259	20	26	20	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7289	7	60	13	11	224	230	31	27	20	20
UG 7290	11	81	26	17	237	231	35	31	20	20
UG 7291	19	92	27	22	211	182	20	27	20	20
UG 7292	7	85	32	19	234	267	54	36	20	20
UG 7293	20	71	26	14	203	220	20	25	20	20
UG 7294	12	84	21	15	222	252	20	28	20	20
UG 7295	19	88	28	18	237	235	20	27	20	39
UG 7296	5	35	8	9	247	271	71	35	20	20
UG 7297	8	50	14	9	256	209	20	132	20	20
UG 7298	5	65	16	9	344	228	45	26	20	20
UG 7299	14	61	23	11	236	250	54	42	20	20
UG 7300	104	96	44	19	262	282	20	34	20	20
UG 7301	13	67	32	15	253	307	41	33	20	20
UG 7302	8	55	33	12	241	267	20	30	20	20
UG 7303	5	51	10	13	263	327	51	32	20	20
UG 7304	27	114	57	19	252	184	68	32	20	20
UG 7305	5	37	17	9	234	139	20	16	20	20
UG 7306	25	78	32	16	225	218	20	28	20	20
UG 7307	5	41	15	12	228	244	20	22	20	20
UG 7308	22	88	36	17	247	245	44	27	20	26
UG 7601	5	159	91	42	939	191	4283	47	20	20
UG 7602	20	83	15	14	357	281	41	21	20	20
UG 7603	5	79	13	11	351	264	121	25	20	20
UG 7604	18	110	30	17	390	264	53	38	20	20
UG 7605	5	64	18	12	307	285	20	21	20	20
UG 7606	5	72	23	12	316	184	66	19	20	20
UG 7607	17	84	25	16	267	256	20	20	20	20
UG 7608	14	114	27	17	297	224	65	21	20	20
UG 7609	13	75	23	15	352	359	85	31	20	20
UG 7610	15	109	27	15	304	215	20	25	20	61
UG 7611	5	93	20	16	334	204	20	20	20	20
UG 7612	17	90	23	17	369	200	20	24	20	20
UG 7613	11	79	24	15	334	246	29	15	20	61
UG 7614	5	51	14	10	334	305	20	20	20	20
UG 7615	15	76	25	14	305	223	20	15	20	20
UG 7616	12	102	27	18	292	299	49	26	20	27

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7617	23	129	40	24	318	240	54	27	20	20
UG 7618	18	74	25	14	303	334	51	26	20	20
UG 7619	10	108	26	17	310	278	91	35	20	20
UG 7620	11	80	28	15	329	304	106	31	20	20
UG 7621	8	73	27	17	317	292	35	29	20	20
UG 7622	23	92	41	21	388	227	20	31	20	20
UG 7814	78	92	68	24	430	314	98	40	24	20
UG 7817	23	165	18	24	807	401	1487	46	55	20
UG 7827	26	87	40	23	318	272	31	28	27	20
UG 7832	21	79	27	16	389	242	60	31	20	20
UG 7862	89	106	58	23	298	222	20	36	20	20
UG 7863	128	285	41	32	970	306	20	44	24	20
UG 7864	34	89	24	23	392	243	20	31	20	20
UG 7865	37	117	34	18	397	323	146	34	20	20
UG 7866	18	67	29	20	507	285	37	37	20	20
UG 7867	26	86	49	22	376	331	75	35	20	20
UG 7868	21	95	42	24	387	285	85	35	20	20
UG 7869	58	86	37	24	358	255	50	33	20	20
UG 7870	47	87	39	25	388	276	25	34	20	20
UG 7871	42	89	22	23	421	289	20	20	20	20
UG 7872	26	78	31	22	381	251	20	31	20	20
UG 7873	14	70	24	16	364	297	20	33	20	20
UG 7874	12	73	25	16	349	276	32	31	20	20
UG 7875	37	89	37	23	319	212	33	31	20	20
UG 7876	143	92	42	22	414	436	76	33	20	20
UG 7877	31	80	27	21	400	254	37	35	20	20
UG 7878	64	125	57	23	382	225	68	24	20	20
UG 7879	23	66	21	21	415	253	88	35	20	20
UG 7880	18	72	27	12	283	209	38	29	20	20
UG 7881	13	83	19	16	339	289	68	27	20	20
UG 7882	15	85	28	15	362	289	38	26	20	20
UG 7883	27	97	37	17	347	236	20	30	20	20
UG 7884	14	72	21	15	342	274	20	24	20	20
UG 7885	24	103	26	18	452	210	27	29	20	20
UG 7886	13	114	30	18	326	223	20	24	20	20
UG 7887	13	73	24	14	376	256	41	28	20	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7888	28	109	34	19	283	194	87	21	22	20
UG 7889	35	36	18	15	289	176	60	20	30	20
UG 7890	5	47	16	15	398	209	20	17	20	20
UG 7891	31	90	40	19	287	276	20	29	25	20
UG 7892	15	107	44	12	212	231	24	17	20	20
UG 7893	14	66	36	17	219	257	20	19	20	22
UG 7894	5	55	19	12	255	308	20	16	20	20
UG 7895	7	127	27	15	251	245	58	21	20	20
UG 7896	27	87	31	23	312	246	55	25	21	20
UG 7897	24	78	37	23	295	287	62	27	23	20
UG 7898	10	68	24	20	235	281	20	18	20	20
UG 7899	23	72	28	24	280	266	20	28	22	20
UG 7900	17	80	30	13	233	262	73	22	20	20
UG 7901	6	82	31	15	244	291	59	17	20	20
UG 7902	34	87	46	20	255	276	20	32	23	20
UG 7903	8	76	34	16	241	275	27	23	20	20
UG 7904	55	104	68	28	186	254	20	40	20	20
UG 7905	18	75	47	22	246	278	63	25	24	20
UG 7906	16	75	26	15	265	349	22	22	22	20
UG 7907	10	76	32	17	270	220	20	21	20	20
UG 7908	28	96	44	23	291	263	20	25	24	20
UG 7909	13	67	35	14	250	192	33	18	20	20
UG 7912	122	104	71	29	348	207	35	40	33	20
UG 7913	21	84	54	16	414	193	20	28	20	20
UG 7914	19	76	46	22	353	226	20	30	20	20
UG 7915	34	87	53	22	291	173	20	31	20	20
UG 7916	63	111	54	22	369	220	68	34	28	22
UG 7917	10	62	25	14	392	181	20	34	21	20
UG 7918	20	73	38	19	370	222	31	28	20	20
UG 7919	11	71	31	15	442	173	23	31	20	20
UG 7920	13	109	62	21	478	144	53	26	20	20
UG 7921	35	94	51	20	378	232	75	39	24	24
UG 7922	8	74	31	13	391	188	25	27	20	20
UG 7924	18	77	52	20	293	225	53	28	20	22
UG 7925	14	59	32	11	307	191	20	23	20	20
UG 7926	32	87	52	16	443	176	20	28	23	20

SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM
UG 7927	31	123	51	22	366	178	20	19	20	20
UG 7928	41	99	65	24	472	129	43	21	20	20
UG 7929	32	91	43	16	328	203	20	19	20	20
UG 7930	25	66	37	13	336	211	20	27	20	20
UG 7932	23	55	27	10	375	190	159	33	20	20
UG 7933	21	62	36	12	385	206	202	17	20	20
UG 7934	23	89	30	15	288	202	61	20	20	20
UG 7935	12	59	33	11	331	200	67	24	20	20
UG 7936	14	60	31	12	282	170	20	20	20	20
UG 7937	10	42	26	14	380	232	61	19	20	20
UG 7938	21	70	38	17	321	208	140	17	20	20

WHOLE ROCK ICP-MS ANALYSIS

.100 GRAM SAMPLE PULSED WITH .6 CM LIBO2 AND IS DISSOLVED AND DILUTED TO 50 ML WITH 5% HNO3.

ANALYSIS BY ICP MASS SPECTROMETER

- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 22 1988

DATE REPORT MAILED: Aug 13/88

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

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SAMPLE#	Be PPM	Bb PPM	Y PPM	Zr PPM	Nb PPM	Sr PPM	Cs PPM	La PPM	Ce PPM	Pr PPM	Nd PPM	Sm PPM	Eu PPM	Gd PPM	Tb PPM	Dy PPM	Ho PPM	Er PPM	Tm PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	V PPM
UG 7623	10	149	43	146	35	4	2	585	817	43	209	22	4	12	2	6	1	4	1	3	1	3	2	2
UG 7624	10	95	14	38	8	2	2	125	150	11	55	8	1	4	1	2	1	2	1	1	1	1	1	2
UG 7625	10	84	40	72	158	6	3	2621	2917	134	680	52	9	30	3	7	1	3	1	3	1	2	2	2
UG 7626	10	124	28	30	84	7	2	238	342	20	115	15	3	8	1	4	1	3	1	2	1	1	2	2
UG 7627	10	132	19	223	9	2	2	173	270	14	77	9	1	4	1	2	1	1	1	1	1	4	1	2
UG 7628	10	63	16	102	150	6	5	508	577	30	158	15	3	8	1	3	1	1	1	1	1	3	1	2
UG 7602	10	12	4	28	8	1	2	16	25	2	9	2	1	1	1	1	1	1	1	1	1	1	1	2
UG 7809	10	71	24	85	20	1	3	42	82	6	43	9	2	5	1	4	1	2	1	2	1	2	1	2
UG 7812	10	9	2	5	2	1	2	2	3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	4
UG 7813	10	12	80	422	27	7	2	1323	2655	174	1055	104	20	46	5	15	2	6	1	6	1	9	1	2
UG 7816	10	31	73	141	44	6	2	2318	4215	261	1458	167	23	59	7	16	2	5	1	5	1	4	1	3
UG 7821	10	65	62	54	141	5	2	220	150	22	124	19	3	9	2	8	2	6	1	6	1	2	5	4
UG 7823	10	73	29	171	10	2	2	436	739	46	260	29	5	12	2	4	1	3	1	2	1	4	1	2
UG 7830	10	44	29	153	14	1	2	26	63	5	39	10	2	5	1	5	1	2	1	2	1	4	1	2
UG 7831	10	4	78	208	27	4	2	1518	2175	114	583	59	8	31	4	12	2	6	1	5	1	5	3	2
UG 7837	10	138	22	43	17	1	2	606	749	38	195	20	3	8	1	2	1	2	1	2	1	1	1	2
UG 7842	10	104	33	9	72	1	2	1174	1959	103	461	44	7	20	2	6	1	3	1	3	1	1	1	3
UG 7843	10	101	36	39	108	2	3	1125	1531	80	418	36	7	19	2	7	1	3	1	5	1	1	2	2
UG 7844	10	40	2	125	3	1	2	13	23	1	5	2	1	1	1	1	1	1	1	1	1	4	1	3
UG 7848	10	73	132	172	22	8	2	3165	6158	442	2796	336	54	128	14	30	4	9	1	7	1	6	1	3
UG 7850	10	63	40	171	687	13	2	1299	2068	116	690	82	13	31	4	8	1	3	1	3	1	5	5	2
UG 7851	10	109	13	136	802	2	2	952	1085	47	244	23	5	13	1	2	1	1	1	1	1	2	23	9
UG 7909	10	83	21	17	12	5	2	551	865	48	250	25	3	11	1	4	1	2	1	2	1	1	1	2
UG 7910	10	77	38	109	1014	12	2	1826	2577	143	819	84	12	35	3	8	1	3	1	3	1	4	4	2
UG 7911	10	48	236	125	86	24	3	22350	25300	1252	5800	506	44	284	25	50	7	19	2	21	3	7	5	7
UG 7923	10	26	41	196	15	7	2	628	1112	68	411	68	2	29	3	9	1	2	1	3	1	8	2	2

WHOLE ROCK ICP ANALYSIS

A .1000 GRAM SAMPLE IS PULSED WITH .60 GRAM OF LiBO2 AND IS DISSOLVED IN 50 ML'S 5% HNO3.
 - SAMPLE TYPE: P&F CON. ANALYSIS BY AA FROM 10 GM. SAMPLE. W ANALYSIS BY ICP. (Na2O2 fusion)

DATE RECEIVED: JUL 27 1988 DATE REPORT MAILED: Aug 13/88 ASSAYER: C. Leong, D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

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SAMPLE#	Cu PPM	Zn PPM	Ni PPM	Co PPM	Sr PPM	Zr PPM	Ce PPM	Y PPM	Nb PPM	Ta PPM	W PPM	Au* PPB
UGP-1	8	77	41	18	433	16	20	46	20	20	18	2
UGP-2	32	88	45	35	331	835	20	137	55	20	9	1
UGP-3	26	27	43	24	346	319	101	68	20	20	4	1
UGP-4	19	70	48	26	350	998	322	84	26	20	3	1
UGP-5	20	51	36	15	459	161	285	36	25	20	10	1
UGP-6	32	67	51	31	452	473	90	55	38	20	5	2
UGP-7	17	55	35	16	340	165	75	51	20	20	1	1
UGP-8	12	53	32	21	306	817	272	116	20	20	1	1
UGP-9	8	47	23	19	428	39	99	31	20	20	1	1
UGP-10	11	78	30	17	386	341	275	82	26	20	4	1
UGP-11	16	51	34	20	285	366	118	92	29	20	1	1
UGP-12	23	79	40	20	475	24	20	34	20	20	1	1
UGP-13	16	96	39	31	441	908	198	105	49	20	1	1
UGP-14	27	119	85	44	415	844	189	49	27	20	1	1
UGP-15	15	45	35	18	540	104	189	26	23	20	1	1
UGP-16	5	10	12	5	125	5	20	22	20	20	1	2
UGP-17	21	66	40	24	492	361	20	54	41	20	2	1
UGP-18	20	48	41	24	459	344	126	42	31	20	1	41
UGP-19	8	67	40	48	347	2442	939	214	78	20	8	1
UGP-20	23	103	49	35	246	2390	1980	242	50	20	4	1
UGP-21	25	68	45	27	390	797	20	71	52	20	12	1
UGP-22	5	57	48	19	300	233	205	58	20	20	1	1
UGP-23	11	83	43	37	257	1129	20	157	42	20	5	1
UGP-24	15	59	28	16	359	377	169	79	23	20	1	1

APPENDIX B
