

MAP NO.

ASSESSMENT REPORT X

DOCUMENT NO.:

091994

PROSPECTUS

MINING DISTRICT:

WHITEHORSE

CONFIDENTIAL X

TYPE OF WORK:

GEOLOGICAL SAMPLING

115 F 16

OPEN FILE

& PROSPECTING

REPORT FILED UNDER: Silverquest Resources Ltd.

DATE PERFORMED: June 6 - September 8, 1987

DATE FILED: January 6, 1988

LOCATION: LAT.: 61°51'N

AREA: Kluane Range

LONG.: 140°19'W

VALUE \$: 15,900.00

CLAIM NAME & NO.: CATS 1-12 YA96439-450

CATS 13-20 YA96587-594

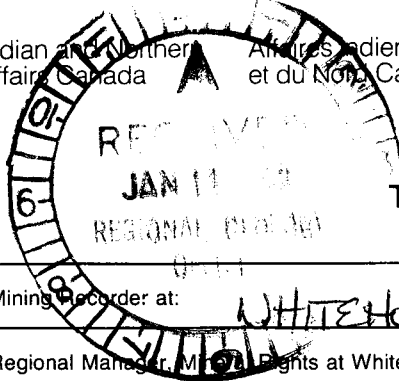
DOGS 1-16 YA96587-94

LIBERTY 1-12 YA96608-35

WORK DONE BY: W.D. Eaton

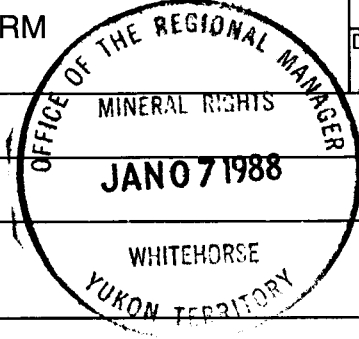
WORK DONE FOR: Silverquest Resources Ltd.

DATE TO GOOD STANDING | REMARKS: #29 CATS AND DOGS

TRANSMITTAL FORM

M.R. file no.  
 R.M.M.R. file no.  
 Date forwarded  
 6 JAN 88



From Mining Recorder at: **WHITEHORSE**  
 To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims	Claim sheet no.
Type of report <b>GEOL. SAMPLING &amp; PROSPECTING</b>		Submitted by <b>ARCHER, CATRO FOR SILVERQUEST RES</b>
Cls. work performed on <b>CATS 1-20; DOGS 1-16; LIBERTY 1-12</b>		\$ req. for ren. application <b>15,900.00</b>

*J. Burkhead*  
Signature

REPLY ACTION **091994** Date returned

*Approved for amount required*

*Jan. 21/88*

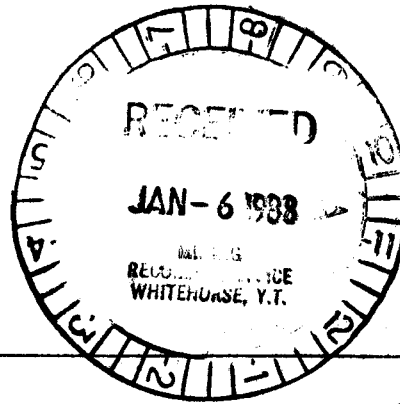
*J.A. Brewer*  
Signature

# ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016-510 WEST HASTINGS STREET  
VANCOUVER, B. C. V6B 1L8



(604) 688-2568



Report On  
GEOLOGICAL SAMPLING AND PROSPECTING

Performed for

Silverquest Resources Ltd.

at the

LIBERTY PROPERTY

Cats 1-20, Dogs 1-16, Liberty 1-12 Claims

(YA96439-50, YA96587-94, YA96608-35)

located on

NTS 115F/16

at

Latitude 61°51'N; Longitude 140°19'W

work done between

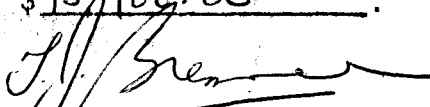
June 6 and September 8, 1987

W.D. Eaton, B.A., B.Sc.

November, 1987

09 1994

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 \$ 15,109.00.

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

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1	Location Map .....	Following Page 1
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## APPENDICES

- I Author's Statement of Qualifications
- II Personnel
- III Analytical Results

## INTRODUCTION

In October 1986, Kluane Joint Venture (Chevron Minerals Ltd. and All-North Resources Ltd.) staked twelve claims to protect an area containing copper occurrences and an ultramafic sill. The sill resembles intrusions that host nickel, copper and platinum group elements (PGE) at the Wellgreen Mine, 55 km to the southeast (see Figure 1 on the following page). A further thirty-six claims were added in December to cover rumoured nickel-copper float occurrences and projected extensions of the sill, as indicated by Geological Survey of Canada aeromagnetic data. The entire property was optioned to Silverquest Resources Ltd. in April, 1987.

The 1987 exploration program was funded by Silverquest and consisted of claim surveys, prospecting and soil sampling traverses along creek cuts. The work was supervised by the author and was performed in two phases with the first being done during an eight day period in early June by a two- to six-man crew from a camp at Wellgreen and the second on September 8 by a three-man crew from Burwash Landing. Both jobs were supported by a Bell 206B helicopter operating from temporary bases at Destruction Bay and Burwash Landing.

The Author's Statement of Qualifications is included in Appendix I while a list of personnel who worked on the property is included as Appendix II.

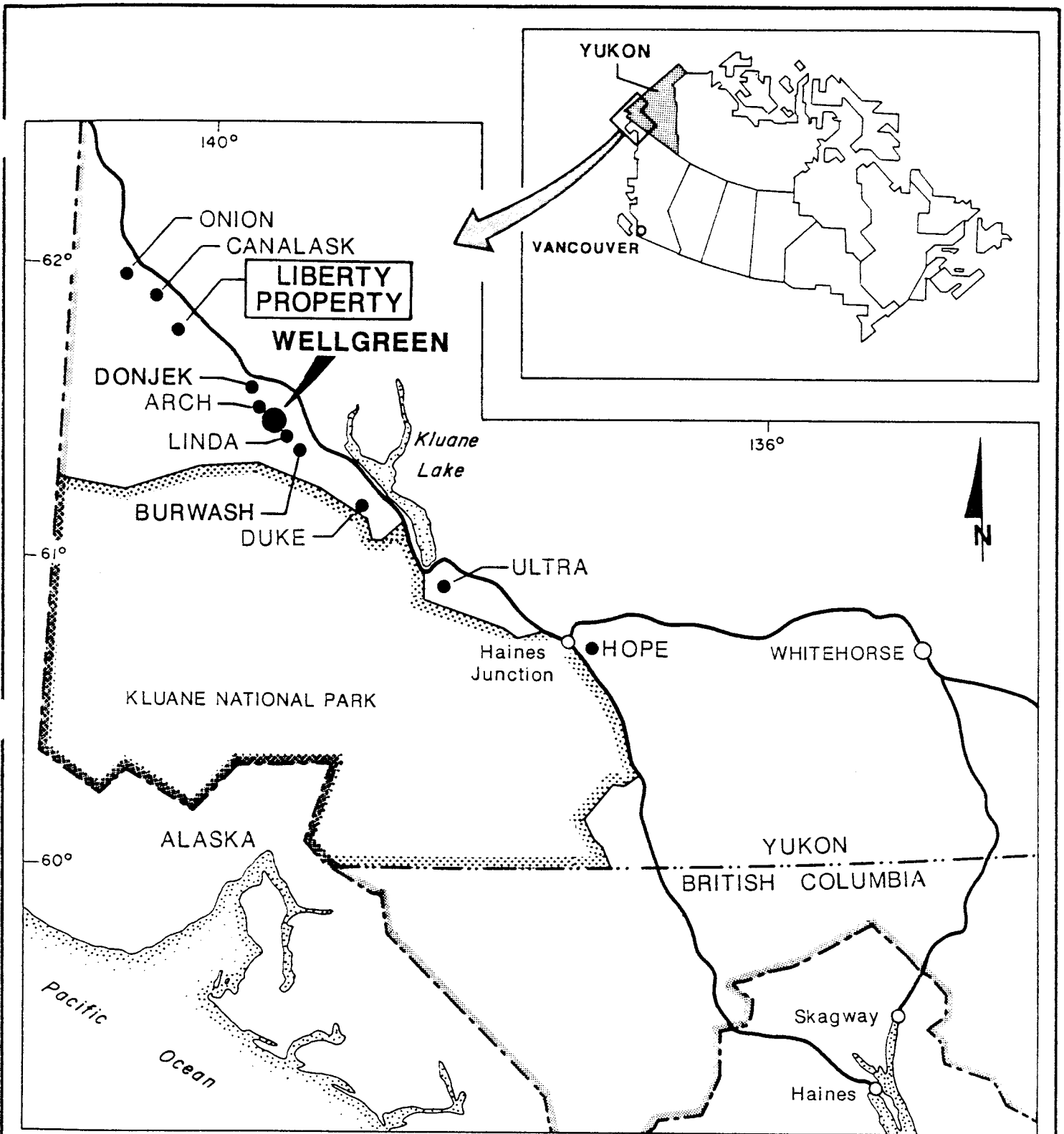


Figure 1  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# LOCATION

LIBERTY PROPERTY  
 KLUANE JOINT VENTURE  
 SILVERQUEST RESOURCES LTD.

PROPERTY, LOCATION AND ACCESS

The property consists of 48 mineral claims registered with the Whitehorse Mining Recorder as follows:

<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Expiry Date</u>
Cats 1-12	YA96439-YA96450	March 19, 1991
Cats 13-20	YA96587-YA96594	March 19, 1991
Dogs 1-16	YA96608-YA96623	March 19, 1991
Liberty 1-12	YA96624-YA96635	March 19, 1991

The claims are located on NTS map sheet 115F/16 at latitude 61°51'N and longitude 140°19'W as shown on Figure 2 in the pocket. They lie about 5 km southwest of the paved Alaska Highway, some 80 km northwest from Burwash Landing, the closest community, and 464 km to the year-round, deep-sea port at Haines, Alaska. A four-wheel drive access road was built from the Alaska Highway to the property in 1969 but it has not been maintained and is no longer usable except by all-terrain vehicles.

HISTORY

The west end of the present claim block was originally staked as the Cat, Dog, etc. claim group in 1953 by Canalask Nickel Mines Ltd. to cover an elongate aeromagnetic anomaly. Canalask built a winter road to the property but allowed the claims to lapse after a diamond drill program was unable to penetrate the overburden. The area was restaked as the Bean, etc. claims by R. Granger in 1966 and as the Ni-Cu claims in 1967 by General Enterprises Ltd. which carried out bulldozer trenching later that year. Those claims also expired and the property was again restaked as the JJ and GG claims by P. Versluce and R. Hilker who performed more bulldozer trenching in 1969 and hand trenching in 1973-74 before optioning the property in 1975 to Western Mines Ltd. (Brascan) which conducted mapping, a magnetic survey, geochemical sampling and hand trenching in 1975-76.

The east end was originally staked as the Elsa, etc. group in 1953 by P. Versluce and associates. It was restaked in 1957 as the Maya claims by C. Eminger and C. Gibbons and in 1968 as part of the adjoining GG property by Hilker and Versluce, who conducted bulldozer trenching in 1969.

GEOMORPHOLOGY

The property lies on the northeastern edge of the Kluane Range immediately southwest of the Koidern River Valley. The western half of the claim block is about 950 metres above sea level and is centered on a pronounced terrace that may be the top of a lateral moraine. Vegetation typically consists of stunted black spruce, thick clusters of slide alder, buck brush and deep moss. Soil beneath the moss is frozen and when exposed includes up to 40 cm of black organics and 10 to 30 cm of coarse white volcanic ash over poorly developed B and C horizon material. Outcrops are restricted to scattered exposures in actively eroding creek cuts that form deep canyons at about 800 m intervals along the length of the property.

## GEOLOGY

### Geological Setting

Regional mapping by the Geological Survey of Canada (GSC Open File 829) indicates that the property lies within the Wrangellia Terrane, the same package of rocks as hosts the Wellgreen mineralization. The western two-thirds of the claim block was mapped by Sue Campbell as part of a 1981 University of British Columbia thesis entitled "Geology and Genesis of Copper Deposits and Associated Host Rocks in and near the Quill Creek Area, Southwestern Yukon". No attempt was made to remap the property in 1987 after spot checks confirmed Campbell's work. Property geology, as shown on Figure 3 in the pocket and summarized below, is based on Campbell's reports except that some of her unit descriptions have been simplified and current GSC ages and nomenclature have been added.

The property is underlain by a folded sequence of Pennsylvanian to Permian volcanic, volcanoclastic and sedimentary rocks that exhibit lower greenschist regional metamorphism. They belong to the GSC Hasen Creek and/or Station Creek Formations, however, stratigraphic relationships are somewhat ambiguous and no attempt has been made to assign specific units to either formation. Intrusive rocks are confined to a narrow Late Permian or Upper Triassic ultramafic sill. Campbell initially subdivided the rocks into nine units but for the purpose of this report they have been regrouped into four stratigraphic and one intrusive unit as described below from oldest to youngest.

Unit PS<sub>1</sub> grades upward from an interbedded sequence of grey-brown cherty argillite, grey limy argillite, black shale and fine-grained, medium green andesite tuff to light grey limestone and cherty limestone to medium green,

andesitic, vesicular to amygdaloidal flows that have locally been sheared to chlorite schist.

Unit Ps<sub>2</sub> consists of thin-bedded black argillite, grey to black chert and grey-brown cherty argillite.

Unit Pc is a narrow sequence of buff limestone interbedded with thin cherty horizons and lenses.

Unit Pv grades upward from andesitic and minor dacitic, coarse-grained tuff, lapilli tuff and hornblende crystal tuff to a thin discontinuous, aphanitic to fine-grained, foliated felsic flow to a thick sequence of medium green dacitic to andesitic agglomerate and breccia with interbedded chert and argillite.

Unit PT<sub>ub</sub> is a 15 to 30 m wide, dark green to black, highly sheared and fractured, serpentized peridotite sill that is repeated by anticlinal folding within the upper portion of a tuffaceous sequence in Unit Pv. Float prospecting suggests that an extension of this body or a second small sill occurs on the south side of a north-northwest trending fault that appears to terminate the main body.

Regional aeromagnetic data reported in GSC Geophysical Paper 4274-G has been enlarged and is shown on Figure 3. The response is stronger than expected from such a narrow sill. This is probably explained by fold repetition which would give the ultramafic body a relatively large axial extent at a shallow depth. The anomaly extends off the property to the north-northwest and south-southeast but is weaker in both directions, suggesting that the body is pinching out or is more deeply buried.

MINERALIZATION

Several small mineral occurrences have been found on the property as shown on Figure 3. Most consist of pyrite and chalcopyrite with associated malachite or azurite occurring as patchy disseminations and fracture fillings within the volcanic and sedimentary rocks. The best of the showing is a 30 to 100 cm wide, 10 m long band containing 2 to 5% chalcopyrite that parallels bedding in the tuffaceous sequence with Unit Pv.

Aside from traces of finely disseminated pyrite and pyrrhotite no mineralization was found in or adjacent to the ultramafic sills.

SOIL AND ROCK GEOCHEMISTRY

A total of 150 soil and 15 rock samples were collected from the banks of creeks cutting across the property. No samples were taken between the creeks as these areas are blanketed by a thick layer of frozen organics and ash which is so difficult to penetrate that most of the old bulldozer trenches barely reached the ash layer and none got through it.

The samples were sent to Bondar-Clegg & Company Ltd. in North Vancouver. Soil samples taken in June were geochemically analyzed for gold and thirty-three other metals by induced neutron activation and platinum and palladium by fire assay, while rocks collected in June were assayed for copper, nickel, platinum and palladium. All samples taken in September were analyzed for copper and nickel by atomic absorption and platinum, palladium and gold by fire assay.

Figure 2 in the pocket shows sample locations and numbers, while Figure 4 in the pocket illustrates nickel, platinum and palladium values. Complete analytical results are included in Appendix III.

Although the quality of the soil samples was generally poor, many returned weakly to moderately anomalous platinum (20-50 ppb), palladium (20-35 ppb) and nickel (100-2520 ppm) values. Nearly all creeks produced at least a few anomalous stream sediment values, including some where no ultramafic rocks are mapped. It is not clear whether these anomalies indicate the presence of buried sills, are the result of glacial dispersion, or are spurious values. Correlations between platinum, palladium and nickel are poor in soils which is also difficult to explain.

Specimens of pyrite-, chalcopyrite- and malachite-bearing volcanoclastic and sedimentary rocks assayed up to 1.2% copper but all returned low nickel ( $\leq 200$  ppm), platinum ( $\leq 20$  ppb), palladium ( $\leq 40$  ppb) and gold ( $\leq 50$  ppb) values.

Peridotite samples from the sill produced more encouraging results. Two samples, each containing about 2% disseminated pyrrhotite, were collected from a creek on the Dog claims and yielded 3100 and 2200 ppm nickel, 500 and 500 ppm copper, 75 and 137 ppb platinum and 160 and 103 ppb palladium, respectively. Typical backgrounds for ultramafic rocks are less than 10 ppb for both platinum and palladium. Considering the low sulphide content, the rocks are strongly anomalous for PGE and nickel. Furthermore, there appears to be a good correlation between platinum, palladium and nickel in the rocks and platinum to palladium ratios are favourable.

CONCLUSIONS AND RECOMMENDATIONS

Although no intense soil geochemical anomalies or economic grade values were obtained from the 1987 sampling, the results are encouraging as they clearly show that the ultramafic sill is enriched in nickel and PGE's and that it has good lateral extent. While a potential economic target would have to contain a much higher percentage of sulphides than seen to date, the area is extremely difficult to explore by traditional prospecting or soil geochemistry and such a target could easily be hidden beneath the frozen organics and ash. The next stage of exploration should consist of grid VLF, magnetic and gradiometer surveys followed by diamond drilling if significant anomalies are outlined. The geophysical phase is estimated to cost \$59,000 and the drilling \$166,000 as shown on the following page.

PHASE I

<u>Labour</u> - Senior supervisor 100 hours, party chief and 2 fieldmen for 1 month each to cut baselines and put in crosslines for geophysical survey .....	\$17,000
<u>Geophysical Survey</u> - 90 km @ \$150/km, travel and report included .....	13,500
<u>Helicopter</u> - 20 hours @ \$600/hr .....	12,000
<u>Room &amp; Board</u> - 130 mandays @ \$65.00/day .....	8,500
<u>Transport and Freight</u> .....	3,000
<u>Office, Drafting and Printing</u> .....	1,000
<u>Assessment Filing</u> .....	1,000
<u>Management</u> .....	<u>3,000</u>
TOTAL -	<u>\$59,000</u>

PHASE II

<u>Diamond Drilling</u> - 500 m @ \$150/m, all inclusive .....	\$ 75,000
<u>Helicopter</u> - 50 hours @ \$600/hr .....	30,000
<u>Labour</u> - Senior supervisor 200 hours, plus geologist, fieldman and cook, 1 month each .....	25,000
<u>Room &amp; Board</u> - 200 mandays @ \$60/day .....	12,000
<u>Analytical Costs</u> - 150 rock samples geochemically analyzed for Cu,Ni,Pt,Pd & Au @ \$23/sample plus 25 assayed for Cu,Ni,Pt, Pd & Au @ \$80/sample, plus 5 assays for minor PGE @ \$100/sample .....	6,000
<u>Transport and Freight</u> .....	5,000
<u>Office, Drafting and Printing</u> .....	5,000
<u>Management</u> .....	8,000
	<u>TOTAL - \$166,000</u>

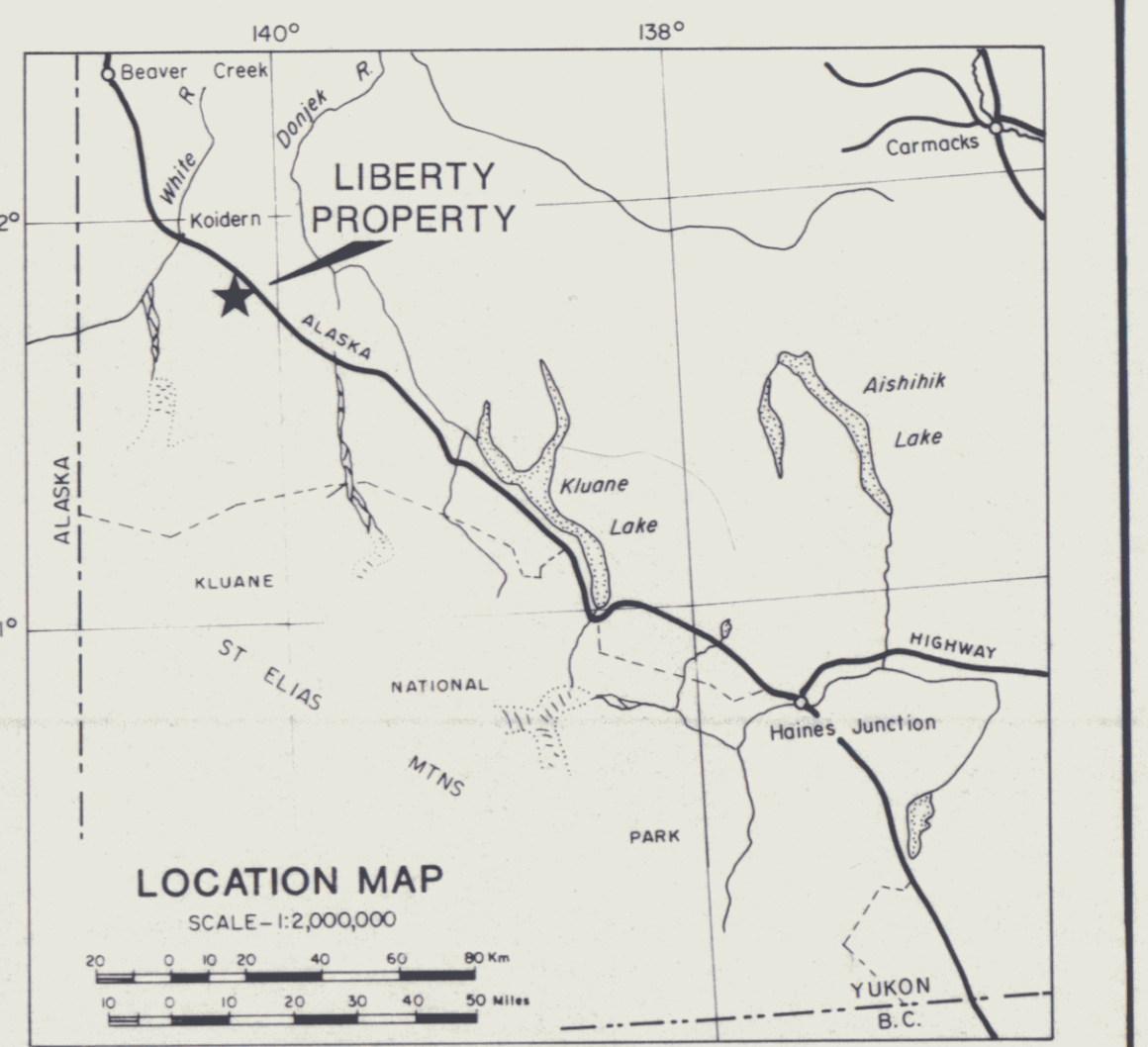
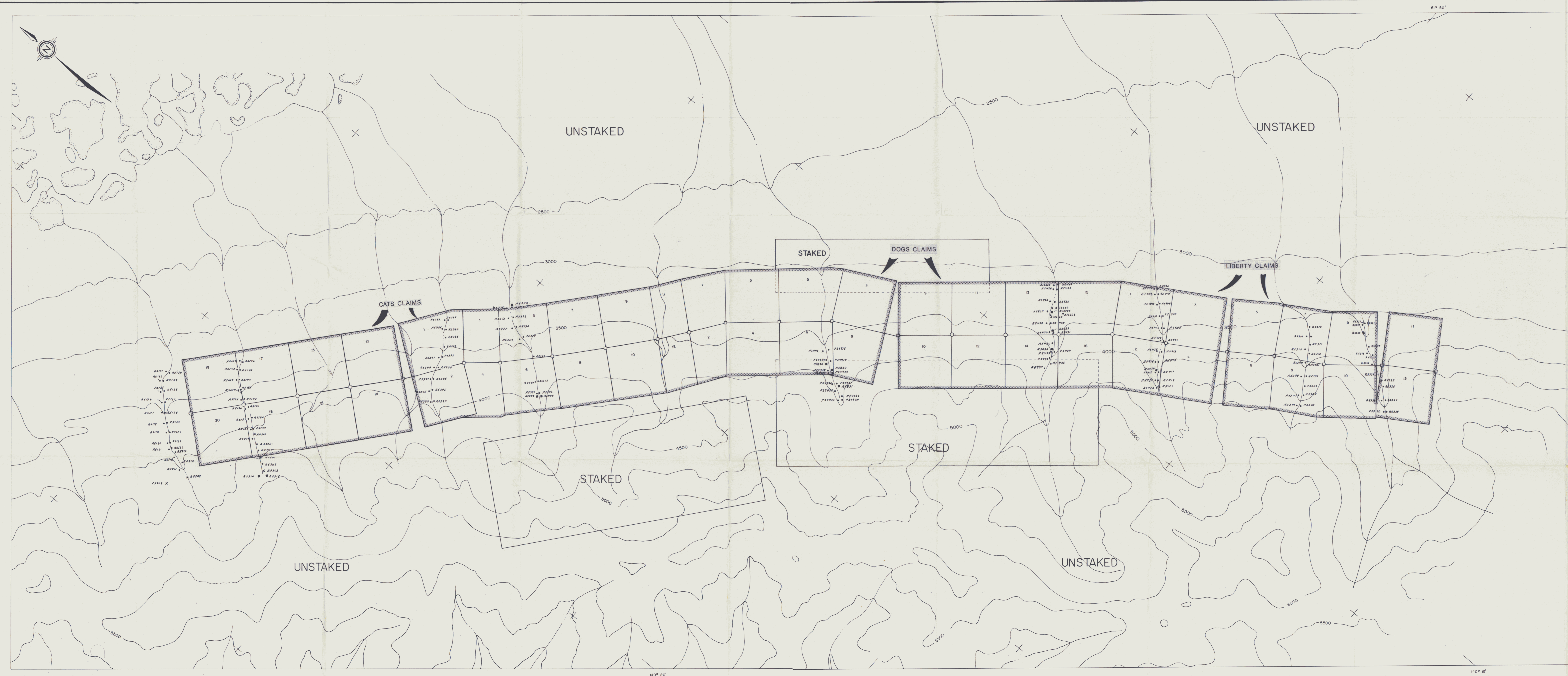
Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



W.D. Eaton, B.A., B.Sc.

/mc



- LEGEND**
- R231 Soil sample location and number
  - R232 Rock sample location and number
  - × S231 Silt sample location and number
  - Claim boundary
  - Claim post located
  - Claim post not located

*copy of  
Dec 15, 1987*

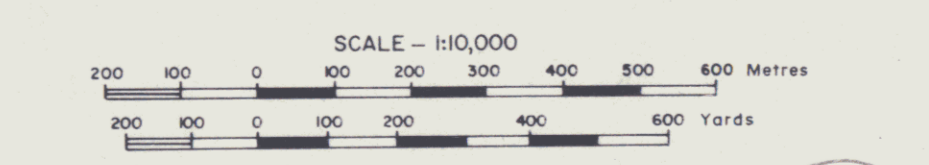
Figure 2

ARCHER, CATHRO & ASSOCIATES (1987) LIMITED

**CLAIM AND SAMPLE LOCATIONS**

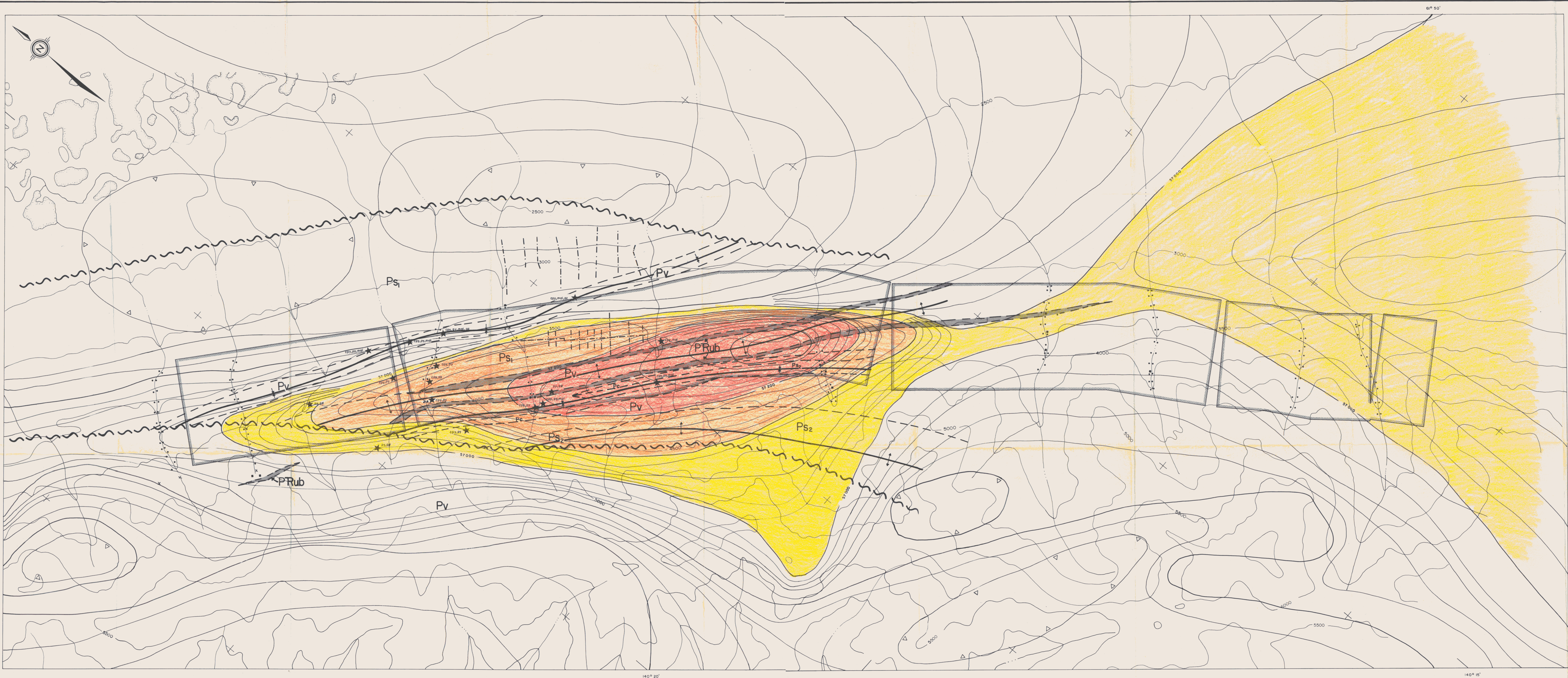
LIBERTY PROPERTY 091994

SILVERQUEST RESOURCES LTD.  
KLUANE JOINT VENTURE



1153

To accompany report dated November, 1987



- PERMIAN and/or UPPER TRIASSIC**
- PRub** Mafic to ultramafic sills, predominantly serpentinized peridotite
- PENNSYLVANIAN TO PERMIAN**
- Ps1** Andesitic flows and tufts with minor argillite, chert and limestone interbeds
  - Ps2** Argillite with minor chert
  - Pc** Buff limestone
  - Pv** Andesitic and dacitic agglomerates and tufts with interbedded chert and argillite

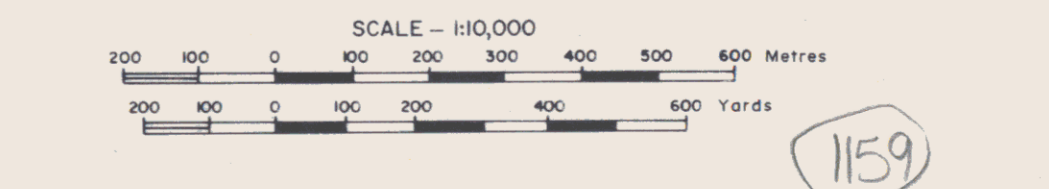
- Approximate geological contact
- ~ Fault trace
- Anticlinal axis
- Synclinal axis
- Soil sample location
- Rock sample location
- Aeromagnetic contour taken from Geological Survey of Canada Map 4274-G
- ≥ 57200 gammas
- ≥ 57100 < 57200 gammas
- ≥ 57000 < 57100 gammas
- Old bulldozer stripping
- ★ Mineral occurrence
- cpy chalcocopyrite
- py pyrite
- pp pyrrhotite
- ml malachite
- az azurite

*copy of 2/15/1987*

**Figure 3**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GEOLOGY, MINERALIZATION & AEROMAGNETIC DATA**

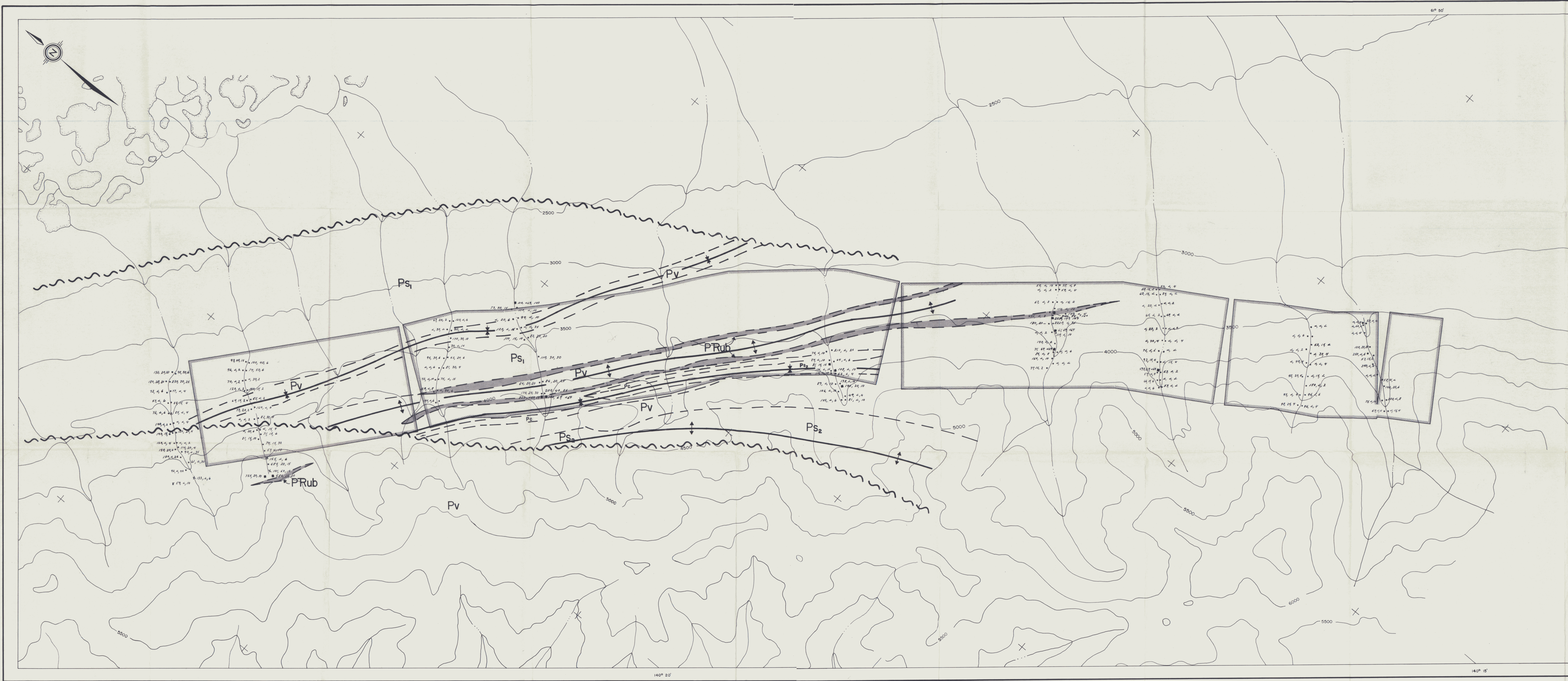
LIBERTY PROPERTY  
 SILVERQUEST RESOURCES LTD.  
 KLUANE JOINT VENTURE

09 1994



1159

To accompany report dated November, 1987



- PERMIAN and/or UPPER TRIASSIC**
- PRub** Mafic to ultramafic sills, predominantly serpentinized peridotite
- PENNSYLVANIAN TO PERMIAN**
- Ps<sub>1</sub>** Andesitic flows and tuffs with minor argillite, chert and limestone interbeds.
  - Ps<sub>2</sub>** Argillite with minor chert.
  - Pc** Buff limestone.
  - Pv** Andesitic and dacitic agglomerates and tuffs with interbedded chert and argillite.
- Approximate geological contact  
 ~~~~~ Fault trace  
 <--> Synclinal axis  
 <--> Anticlinal axis  
 • Soil sample location and values (Ni(ppm), Pt(ppb), Pd(ppb))  
 ■ Rock sample location and values (Ni(ppm), Pt(ppb), Pd(ppb))

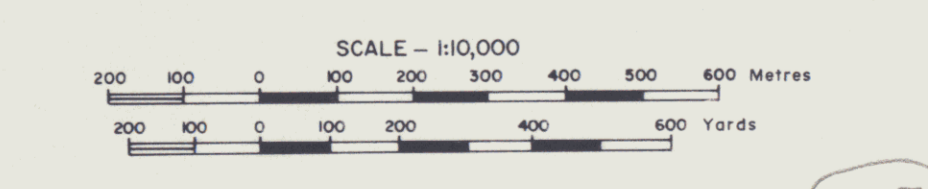
091994  
 WJG  
 Dec 5, 1987

Figure 4

ARCHER, CATHRO & ASSOCIATES (1987) LIMITED

**Ni, Pt, & Pd GEOCHEMISTRY**

LIBERTY PROPERTY  
 SILVERQUEST RESOURCES LTD.  
 KLUSANE JOINT VENTURE

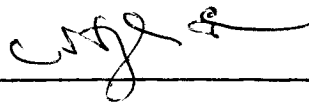


APPENDIX I  
AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, W. Douglas Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia, and residential address in Burnaby, British Columbia, do hereby declare:

1. I graduated from the University of British Columbia in 1980 with a B.Sc.
2. From 1971 to the present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, became a partner in Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



---

W. Douglas Eaton, B.A., B.Sc.

APPENDIX II

PERSONNEL

| <u>NAME</u>     | <u>POSITION</u> | <u>DATES ON PROPERTY</u>     |
|-----------------|-----------------|------------------------------|
| D. Eaton        | Geologist       | June 6, 8 and<br>September 8 |
| G. Harris       | Prospector      | June 6, 8                    |
| B. Wengzynowski | Party Chief     | June 6, 13                   |
| K. Stewart      | Fieldman        | June 6, 13                   |
| J. Sebben       | Fieldman        | June 6-8, 13                 |
| D. Parry        | Fieldman        | June 6-8, 13                 |
| T. Becker       | Fieldman        | September 8                  |
| L. Cymbalisky   | Fieldman        | September 8                  |

APPENDIX III  
ANALYTICAL RESULTS

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 Canada V7P 2R5  
 Phone: (604) 983-0681  
 Telex: 04-352667



**BONDAR-CLEGG**

**Geochemical  
 Lab Report**

REPORT: 127-8020 ( COMPLETE )

REFERENCE INFO:

CLIENT: ARCHER, CATHRO & ASSOCIATES LTD.  
 PROJECT: SQ

SUBMITTED BY: UNKNOWN  
 DATE PRINTED: 29-SEP-87

| ORDER | ELEMENT              | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION                     | METHOD            |
|-------|----------------------|--------------------|-----------------------|--------------------------------|-------------------|
| 1     | Cu Copper            | 38                 | 1 PPM                 | HNO <sub>3</sub> -HCL HOT EXTR | Atomic Absorption |
| 2     | Ni Nickel            | 38                 | 2 PPM                 | HNO <sub>3</sub> -HCL HOT EXTR | Atomic Absorption |
| 3     | Au Gold - Fire Assay | 38                 | 5 PPB                 | FIRE-ASSAY                     | Fire Assay AA     |
| 4     | Pl Platinum          | 38                 | 15 PPB                | FIRE-ASSAY                     |                   |
| 5     | Pd Palladium         | 38                 | 2 PPB                 | FIRE-ASSAY                     |                   |

| SAMPLE TYPES       | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS   | NUMBER |
|--------------------|--------|----------------|--------|-----------------------|--------|
| S SOILS            | 31     | 1 -80          | 31     | DRY, SIEVE -80        | 31     |
| R ROCK OR BED ROCK | 7      | 2 -150         | 7      | CRUSH, PULVERIZE -150 | 7      |

REPORT COPIES TO: ARCHER, CATHRO & ASSOC.

INVOICE TO: ARCHER, CATHRO & ASSOC.

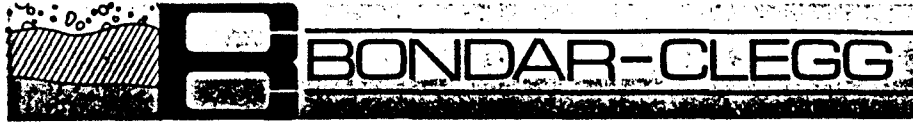
REPORT: 127-8020

PROJECT: SQ

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Cu PPM | Ni PPM | Au PPB | Pt PPB | Pd PPB |
|---------------|---------------|--------|--------|--------|--------|--------|
| S1 R5801      |               | 115    | 155    | <5     | <15    | 6      |
| S1 R5802      |               | 104    | 585    | <5     | 20     | 15     |
| S1 R5803      |               | 87     | 101    | <5     | 60     | 10     |
| S1 R5804      |               | 44     | 53     | <5     | <15    | 10     |
| S1 R5805      |               | 765    | 74     | 5      | 15     | 30     |
| S1 R5806      |               | 900    | 81     | <5     | 15     | 10     |
| S1 R5807      |               | 137    | 71     | <5     | 15     | 6      |
| S1 R5808      |               | 183    | 133    | <5     | <15    | 6      |
| S1 R5809      |               | 112    | 59     | <5     | <15    | 10     |
| S1 R5811      |               | 625    | 92     | 50     | <15    | 40     |
| S1 R5812      |               | 119    | 61     | <5     | <15    | 30     |
| S1 R5813      |               | 295    | 100    | <5     | <15    | 25     |
| S1 R5814      |               | 535    | 90     | 20     | <15    | 35     |
| S1 R12664     |               | 40     | 37     | <5     | <15    | 8      |
| S1 R12665     |               | 101    | 50     | <5     | <15    | 15     |
| S1 R12666     |               | 135    | 110    | <5     | <15    | 10     |
| S1 R12667     |               | 220    | 435    | 5      | <15    | 8      |
| S1 R12668     |               | 115    | 109    | <5     | <15    | 4      |
| S1 P24918     |               | 36     | 210    | <5     | <15    | 25     |
| S1 P24919     |               | 77     | 64     | <5     | <15    | 6      |
| S1 P24920     |               | 58     | 52     | <5     | <15    | 4      |
| S1 P24921     |               | 118    | 138    | 30     | <15    | 10     |
| S1 P24922     |               | 92     | 49     | <5     | <15    | 4      |
| S1 P24923     |               | 172    | 102    | <5     | <15    | 6      |
| S1 P24924     |               | 138    | 81     | <5     | <15    | 10     |
| S1 P24925     |               | 165    | 106    | <5     | <15    | 10     |
| S1 P24926     |               | 113    | 89     | <5     | <15    | 10     |
| S1 P24927     |               | 183    | 110    | <5     | <15    | 10     |
| S1 P24928     |               | 310    | 176    | <5     | <15    | 15     |
| S1 P24929     |               | 135    | 84     | <5     | <15    | 10     |
| S1 P24930     |               | 62     | 75     | <5     | <15    | 10     |
| R2 R5815      |               | 92     | 585    | <5     | 15     | 20     |
| R2 R5816      |               | 82     | 735    | <5     | 20     | 10     |
| R2 R5817      |               | 12000  | 200    | 25     | <15    | 30     |
| R2 R5830      |               | 179    | 108    | <5     | <15    | 10     |
| R2 R5831      |               | 370    | 190    | <5     | 20     | 10     |
| R2 R5832      |               | 113    | 81     | <5     | 15     | 15     |
| R2 R12700     |               | 500    | 3100   | <5     | 75     | 160    |

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Certificate  
 of Analysis

REPORT: 427-4862 ( COMPLETE )

REFERENCE INFO:

CLIENT: ARCHER, CATHRO & ASSOCIATES LTD.  
 PROJECT: SQ CATS

SUBMITTED BY: UNKNOWN  
 DATE PRINTED: 16-JUL-87

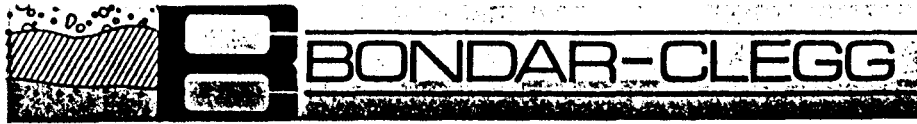
| ORDER | ELEMENT        | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|----------------|--------------------|-----------------------|------------|--------|
| 1     | Pt : Platinum  | 7                  | 0.002 OPT             |            |        |
| 2     | Pd : Palladium | 7                  | 0.002 OPT             |            |        |
| 3     | Cu : Copper    | 7                  | 0.01 PCT              |            |        |
| 4     | Ni : Nickel    | 7                  | 0.01 PCT              |            |        |

| SAMPLE TYPES       | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------------|--------|----------------|--------|---------------------|--------|
| R ROCK OR BED ROCK | 7      | 2 -150         | 7      | ASSAY PREP          | 7      |

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Certificate  
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REPORT: 427-4862

PROJECT: SQ CATS

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Pt OPT | Pd OPT | Cu PCT | Ni PCT |
|---------------|---------------|--------|--------|--------|--------|
| R2 R5033      |               | 0.002  | <0.002 | 0.03   | 0.01   |
| R2 R5034      |               | 0.002  | <0.002 | 0.02   | 0.04   |
| R2 R5035      |               | 0.004  | 0.003  | 0.05   | 0.22   |
| R2 R5036      |               | 0.002  | <0.002 | 0.01   | 0.01   |
| R2 R5048      |               | 0.002  | 0.002  | 0.02   | 0.02   |
| R2 R5049      |               | <0.002 | 0.002  | 0.01   | 0.02   |
| R2 R5050      |               | <0.002 | 0.003  | 0.01   | 0.01   |

*Quality Control* ✓

REPORT: 127-4862 ( COMPLETE )

REFERENCE INFO:

CLIENT: ARCHER, CATRO & ASSOCIATES LTD.  
 PROJECT: SQ CATS

SUBMITTED BY: UNKNOWN  
 DATE PRINTED: 29-JUL-87

| ORDER | ELEMENT       | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION     | METHOD              |
|-------|---------------|--------------------|-----------------------|----------------|---------------------|
| 1     | Au Gold       | 7                  | 5 PPB                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 2     | Sb Antimony   | 7                  | 0.2 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 3     | As Arsenic    | 7                  | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 4     | Ba Barium     | 7                  | 100 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 5     | Br Bromine    | 7                  | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 6     | Cd Cadmium    | 7                  | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 7     | Ce Cerium     | 7                  | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 8     | Cs Cesium     | 7                  | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 9     | Cr Chromium   | 7                  | 50 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 10    | Co Cobalt     | 7                  | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 11    | Eu Europium   | 7                  | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 12    | Hf Hafnium    | 7                  | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 13    | Ir Iridium    | 7                  | 100 PPB               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 14    | Fe Iron       | 7                  | 0.5 PCT               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 15    | La Lanthanum  | 7                  | 5 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 16    | Lu Lutetium   | 7                  | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 17    | Mo Molybdenum | 7                  | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 18    | Ni Nickel     | 7                  | 50 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 19    | Rb Rubidium   | 7                  | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 20    | Sm Samarium   | 7                  | 0.1 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 21    | Sc Scandium   | 7                  | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 22    | Se Selenium   | 7                  | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 23    | Ag Silver     | 7                  | 5 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 24    | Na Sodium     | 7                  | 0.05 PCT              | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 25    | Ta Tantalum   | 7                  | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 26    | Te Tellurium  | 7                  | 20 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 27    | Tb Terbium    | 7                  | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 28    | Th Thorium    | 7                  | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 29    | Sn Tin        | 7                  | 200 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 30    | W Tungsten    | 7                  | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 31    | U Uranium     | 7                  | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 32    | Yb Ytterbium  | 7                  | 5 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 33    | Zn Zinc       | 7                  | 200 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 34    | Zr Zirconium  | 7                  | 500 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |

✓

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Geochemical  
Lab Report

REPORT: 127-4862 ( COMPLETE )

REFERENCE INFO:

CLIENT: ARCHER, CATHRO & ASSOCIATES LTD.  
PROJECT: SQ CATS

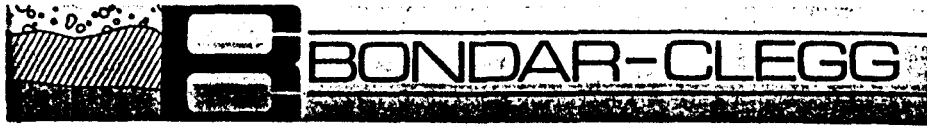
SUBMITTED BY: UNKNOWN  
DATE PRINTED: 29-JUL-87

| SAMPLE TYPES       | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------------|--------|----------------|--------|---------------------|--------|
| R ROCK OR BED ROCK | 7      | 2 -150         | 7      | ASSAY PREP          | 7      |
|                    |        |                |        | BATCH SURCHARGE     | 7      |

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REPORT: 127-4862

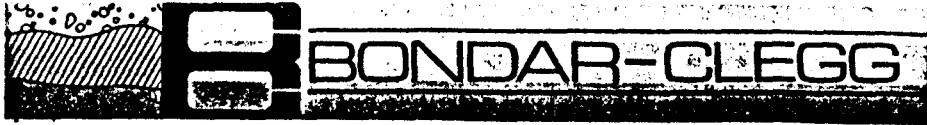
PROJECT: SQ CATS

PAGE 1A

| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Sb PPM | As PPM | Ba PPM | Br PPM | Cd PPM | Ce PPM | Cs PPM | Cr PPM | Co PPM | Eu PPM | Hf PPM |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| R2 R5033      |               | 8      | 1.1    | 2      | 540    | <2     | <10    | 12     | <1     | 63     | 49     | <2     | <2     |
| R2 R5034      |               | <5     | 0.7    | 5      | 130    | <2     | <10    | 11     | <1     | 1300   | 67     | <2     | <2     |
| R2 R5035      |               | 17     | 2.6    | 11     | <100   | <5     | <10    | <10    | 2      | 4400   | 150    | <2     | <2     |
| R2 R5036      |               | 19     | 1.2    | 12     | <100   | <5     | <10    | 21     | <1     | 240    | 42     | <2     | 3      |
| R2 R5048      |               | 45     | 0.6    | 13     | 3000   | <5     | <10    | <10    | <1     | 510    | 59     | <2     | <2     |
| R2 R5049      |               | 21     | 1.4    | 121    | 1600   | <5     | <10    | <10    | 2      | 510    | 66     | <2     | <2     |
| R2 R5050      |               | 20     | 1.3    | 11     | 160    | <5     | <10    | 22     | <1     | 250    | 130    | <2     | <2     |

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Geochemical  
 Lab Report

REPORT: 127-4862

PROJECT: SQ CATS

PAGE 1B

| SAMPLE<br>NUMBRER | ELEMENT<br>UNITS | Ir<br>PPB | Fe<br>PCT | La<br>PPM | Lu<br>PPM | Mo<br>PPM | Ni<br>PPM | Rb<br>PPM | Sr<br>PPM | Sc<br>PPM | Se<br>PPM | Ag<br>PPM | Na<br>PCT |
|-------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| R2 R5033          |                  | <100      | 7.6       | <5        | <1.0      | <2        | 61        | <10       | 2.4       | 37.4      | <10       | <5        | 1.20      |
| R2 R5034          |                  | <100      | 7.1       | <5        | <1.0      | <2        | 470       | 21        | 2.6       | 31.1      | <10       | <5        | 0.75      |
| R2 R5035          |                  | <100      | 9.0       | <5        | <0.5      | <2        | 2520      | <10       | 1.1       | 14.0      | <10       | <5        | 0.31      |
| R2 R5036          |                  | <100      | 7.5       | 7         | <0.5      | <2        | 71        | <10       | 3.2       | 31.0      | <10       | <5        | 2.50      |
| R2 R5048          |                  | <100      | 5.4       | <5        | <0.5      | <2        | 140       | <10       | 1.0       | 20.0      | 12        | <5        | 3.10      |
| R2 R5049          |                  | <100      | 7.1       | <5        | <0.5      | <2        | 220       | 21        | 1.4       | 35.0      | <10       | <5        | 1.80      |
| R2 R5050          |                  | <100      | 14.0      | 6         | <0.5      | <2        | 110       | <10       | 3.0       | 50.0      | 24        | <5        | 2.20      |

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Geochemical  
 Lab Report

REPORT: 127-4862

PROJECT: SQ CATS

PAGE 1C

| SAMPLE NUMBER | ELEMENT UNITS | Ta PPM | Te PPM | Tb PPM | Th PPM | Sn PPM | W PPM | U PPM | Yb PPM | Zn PPM | Zr PPM |
|---------------|---------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|
| R2 R5033      |               | <1     | <20    | <1     | 0.7    | <200   | <2    | <0.5  | <5     | <200   | <500   |
| R2 R5034      |               | <1     | <20    | <1     | 0.6    | <200   | <2    | <0.5  | <5     | <200   | <500   |
| R2 R5035      |               | <1     | <20    | <1     | <0.5   | <200   | <2    | <0.5  | <5     | <200   | <500   |
| R2 R5036      |               | <1     | <20    | <1     | 0.6    | <200   | <2    | <0.5  | <5     | <200   | 690    |
| R2 R5048      |               | <1     | <20    | <1     | <0.5   | <200   | <2    | <0.5  | <5     | <200   | <500   |
| R2 R5049      |               | <1     | <20    | <1     | <0.5   | <200   | 6     | <0.5  | <5     | <200   | <500   |
| R2 R5050      |               | <1     | <20    | <1     | <0.5   | <200   | <6    | <0.5  | <5     | <200   | 840    |



REPORT NO. 422 (COMPLETE)

REFERENCE 1460

ANALYST: ANDREW G. BONDAR & ASSOCIATES LTD.

SUBMITTED BY: LANS LN

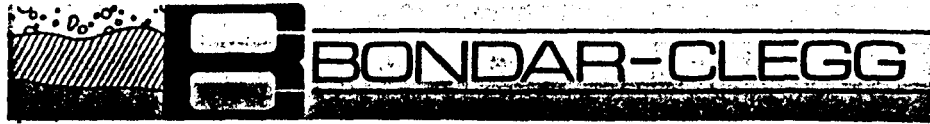
| ORDER | ELEMENT | ANALYST | LOWER DETECTION LIMIT | EXPLANATION    | METHOD              |
|-------|---------|---------|-----------------------|----------------|---------------------|
| 1     | AG      | 129     | 1 PPB                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 2     | AS      | 129     | 0.2 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 3     | AS      | 129     | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 4     | BA      | 129     | 100 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 5     | BR      | 129     | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 6     | CD      | 129     | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 7     | CE      | 129     | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 8     | CS      | 129     | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 9     | CR      | 129     | 50 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 10    | CO      | 129     | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 11    | CU      | 129     | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 12    | FE      | 129     | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 13    | IR      | 129     | 100 PPB               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 14    | IS      | 129     | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 15    | LA      | 129     | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 16    | LI      | 129     | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 17    | MO      | 129     | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 18    | NI      | 129     | 50 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 19    | NO      | 129     | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 20    | OS      | 129     | 0.1 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 21    | PB      | 129     | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 22    | PO      | 129     | 10 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 23    | RU      | 129     | 5 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 24    | SA      | 129     | 0.05 PCT              | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 25    | TA      | 129     | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 26    | TE      | 129     | 20 PPM                | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 27    | TB      | 129     | 1 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 28    | TH      | 129     | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 29    | SN      | 129     | 200 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 30    | W       | 129     | 2 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 31    | U       | 129     | 0.5 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 32    | YB      | 129     | 5 PPM                 | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 33    | ZH      | 129     | 200 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 34    | ZR      | 129     | 500 PPM               | NOT APPLICABLE | IND. NEUTRON ACTIV. |
| 35    | PT      | 129     | 15 PPB                | FIRE-ASSAY     |                     |
| 36    | PD      | 129     | 2 PPB                 | FIRE-ASSAY     |                     |

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REPORT: 127-4865

PROJECT: C AND D LIBERTY PAGE 1A

| SAMPLE NUMBER | ELEMENT UNITS | Au PPM | Sb PPM | As PPM | Ba PPM | Br PPM | Cd PPM | Ce PPM | Cs PPM | Cr PPM | Co PPM | Cu PPM | Hf PPM |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| S1 R5116      |               | <5     | 1.4    | 15     | 620    | <5     | <10    | 21     | <1     | 240    | 39     | <2     | 4      |
| S1 R5117      |               | 10     | 1.3    | 14     | 490    | <5     | <10    | 42     | 2      | 170    | 35     | <2     | 3      |
| S1 R5118      |               | <5     | 1.6    | 13     | 810    | <5     | <10    | <20    | 2      | 220    | 44     | <2     | 5      |
| S1 R5119      |               | <5     | 1.1    | 11     | 460    | <5     | <10    | 32     | 3      | 360    | 33     | <2     | <2     |
| S1 R5120      |               | <5     | 1.2    | 12     | 440    | <5     | <10    | 35     | 2      | 250    | 22     | <2     | 2      |
| S1 R5121      |               | <5     | 1.1    | 12     | 560    | <5     | <10    | 35     | 1      | 310    | 46     | <2     | 3      |
| S1 R5122      |               | 12     | 1.2    | 11     | 500    | <5     | <10    | 49     | 4      | 320    | 42     | <2     | 4      |
| S1 R5123      |               | 8      | 1.3    | 14     | 630    | <5     | <10    | 45     | 2      | 150    | 34     | <2     | 3      |
| S1 R5124      |               | <5     | 1.1    | 10     | 360    | <5     | <10    | 45     | 2      | 310    | 39     | <2     | <2     |
| S1 R5125      |               | 39     | 1.2    | 12     | 440    | <5     | <10    | 27     | 1      | 300    | 36     | <2     | <2     |
| S1 R5126      |               | 7      | 1.2    | 12     | 650    | <5     | <10    | 41     | 3      | 200    | 43     | <2     | 2      |
| S1 R5127      |               | <5     | 1.3    | 12     | 430    | <5     | <10    | 37     | 2      | 280    | 32     | <2     | 3      |
| S1 R5128      |               | <5     | 0.9    | 11     | 430    | <5     | <10    | 80     | 3      | 110    | 41     | <2     | 4      |
| S1 R5129      |               | 17     | 1.7    | 20     | 700    | <5     | <10    | 17     | <1     | 460    | 84     | <2     | <2     |
| S1 R5130      |               | 18     | 1.3    | 3      | 380    | <5     | <10    | 36     | 2      | 200    | 56     | <2     | <2     |
| S1 R5131      |               | 12     | 2.1    | 16     | 540    | <5     | <10    | 32     | 1      | 340    | 49     | <2     | 2      |
| S1 R5132      |               | 26     | 1.2    | 24     | 320    | <5     | <10    | <10    | 2      | 440    | 110    | <2     | 2      |
| S1 R5133      |               | <5     | 1.2    | 10     | 500    | <5     | <10    | 36     | <1     | 290    | 33     | <2     | 3      |
| S1 R5134      |               | 11     | 0.8    | 8      | 550    | <5     | <10    | 39     | 3      | 260    | 33     | <2     | <2     |
| S1 R5135      |               | <5     | 0.9    | 7      | 460    | 9      | <10    | 56     | 2      | 160    | 26     | 3      | 3      |
| S1 R5136      |               | <5     | 0.7    | 7      | 540    | <5     | <10    | 39     | 2      | 300    | 32     | <2     | 2      |
| S1 R5137      |               | <5     | 1.4    | 12     | 500    | <5     | <10    | 42     | 2      | 230    | 18     | <2     | 5      |
| S1 R5138      |               | <5     | 0.9    | 9      | 540    | <5     | <10    | 51     | <1     | 200    | 36     | <2     | <2     |
| S1 R5139      |               | <5     | 0.8    | 9      | 470    | <5     | <10    | 46     | 3      | 220    | 32     | <2     | 4      |
| S1 R5140      |               | <5     | 0.7    | 7      | 390    | <5     | <10    | 39     | 2      | 250    | 32     | <2     | <2     |
| S1 R5141      |               | 6      | 0.9    | 9      | 590    | <5     | <10    | 44     | 2      | 450    | 31     | <2     | 3      |
| S1 R5142      |               | <5     | 0.7    | 9      | 580    | <5     | <10    | 27     | 2      | 210    | 32     | <2     | 3      |
| S1 R5143      |               | <5     | 0.8    | 6      | 580    | <5     | <10    | 39     | 2      | 320    | 41     | <2     | 3      |
| S1 R5144      |               | <5     | 0.7    | 7      | 550    | <5     | <10    | 38     | 1      | 160    | 32     | <2     | 3      |
| S1 R5145      |               | 6      | 1.0    | 10     | 510    | <5     | <10    | 29     | 2      | 230    | 41     | <2     | <2     |
| S1 R5146      |               | 18     | 0.9    | 7      | 510    | <5     | <10    | 15     | 2      | 220    | 42     | <2     | 3      |
| S1 R5147      |               | <5     | 0.5    | 3      | 180    | <5     | <10    | 17     | 3      | 260    | 56     | <2     | <2     |
| S1 R5148      |               | <5     | 0.9    | 11     | 630    | <5     | <10    | 37     | 1      | 290    | 29     | <2     | 5      |
| S1 R5149      |               | <5     | 0.7    | 7      | 630    | <5     | <10    | 28     | 1      | 220    | 36     | <2     | 2      |
| S1 R5301      |               | <5     | 0.5    | 3      | 660    | <5     | <10    | 28     | <1     | 130    | 14     | <2     | 2      |
| S1 R5302      |               | 6      | 1.0    | 12     | 750    | <5     | <10    | 43     | <1     | 180    | 33     | <2     | 4      |
| S1 R5303      |               | 6      | 1.7    | 22     | 1000   | <5     | <10    | 37     | 3      | 320    | 71     | <2     | 4      |
| S1 R5304      |               | <5     | 1.6    | 31     | 940    | <5     | <10    | 80     | <1     | 260    | 39     | <2     | 5      |
| S1 R5305      |               | <5     | 1.2    | 23     | 1000   | <5     | <10    | 76     | 2      | 180    | 33     | 3      | 3      |
| S1 R5306      |               | 6      | 1.0    | 17     | 900    | <5     | <10    | 63     | 2      | 340    | 34     | <2     | 2      |



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| SAMPLE NUMBER | ELEMENT UNITS | Ir PPB | Fe PCT | La PPM | Lu PPM | Mo PPM | Ni PPM | Rb PPM | Sr PPM | Sc PPM | Se PPM | Ag PPM | Na PCT |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SI R5116      |               | <100   | 6.5    | 11     | <0.5   | <2     | 57     | 33     | 4.4    | 22.0   | <10    | <5     | 1.50   |
| SI R5117      |               | <100   | 6.6    | 13     | <0.5   | <2     | 76     | 53     | 4.1    | 25.0   | <10    | <5     | 1.90   |
| SI R5118      |               | <100   | 8.3    | 17     | <0.5   | <2     | 140    | 42     | 5.1    | 32.0   | <10    | <5     | 2.10   |
| SI R5119      |               | <100   | 5.7    | 12     | <0.5   | <2     | 140    | 18     | 3.4    | 23.0   | <10    | <5     | 1.60   |
| SI R5120      |               | <100   | 6.3    | 16     | <0.5   | <2     | 120    | 21     | 4.3    | 25.0   | <10    | <5     | 1.70   |
| SI R5121      |               | <100   | 6.5    | 13     | <0.5   | <2     | 130    | 27     | 3.9    | 27.0   | <10    | <5     | 1.90   |
| SI R5122      |               | <100   | 6.7    | 12     | <0.5   | <2     | 110    | 40     | 4.2    | 28.0   | <10    | <5     | 1.80   |
| SI R5123      |               | <100   | 7.4    | 13     | <0.5   | <2     | <50    | 53     | 4.4    | 27.0   | <10    | <5     | 1.80   |
| SI R5124      |               | <100   | 6.5    | 13     | <0.5   | <2     | 120    | 37     | 3.8    | 25.0   | <10    | <5     | 1.70   |
| SI R5125      |               | <100   | 6.8    | 14     | <0.5   | <2     | <50    | 34     | 3.9    | 27.0   | <10    | <5     | 1.90   |
| SI R5126      |               | <100   | 7.3    | 14     | <0.5   | <2     | 85     | 28     | 4.1    | 28.0   | <10    | <5     | 1.90   |
| SI R5127      |               | <100   | 6.5    | 12     | <0.5   | <2     | 88     | 24     | 4.0    | 27.0   | <10    | 6      | 1.90   |
| SI R5128      |               | <100   | 6.1    | 24     | <0.5   | <2     | 77     | 52     | 5.6    | 20.0   | <10    | <5     | 1.20   |
| SI R5129      |               | <100   | 8.6    | 8      | <0.5   | <2     | 230    | 36     | 2.9    | 39.0   | <10    | <5     | 1.30   |
| SI R5130      |               | <100   | 7.5    | 17     | <0.5   | <2     | 92     | 17     | 5.0    | 31.0   | <10    | <5     | 1.60   |
| SI R5131      |               | <100   | 6.7    | 11     | <0.5   | 4      | 130    | <10    | 3.3    | 35.0   | <10    | <5     | 1.50   |
| SI R5132      |               | <100   | 8.2    | 6      | <0.5   | <2     | 180    | <10    | 2.6    | 44.0   | <10    | <5     | 1.30   |
| SI R5133      |               | <100   | 6.0    | 15     | <0.5   | <2     | 72     | 29     | 4.0    | 24.0   | <10    | <5     | 1.70   |
| SI R5134      |               | <100   | 5.6    | 12     | <0.5   | <2     | 120    | 43     | 4.2    | 19.0   | <10    | <5     | 1.60   |
| SI R5135      |               | <100   | 3.5    | 15     | <0.5   | <2     | 64     | 17     | 4.1    | 13.0   | <10    | <5     | 1.10   |
| SI R5136      |               | <100   | 6.5    | 14     | <0.5   | <2     | 73     | 51     | 4.0    | 23.0   | <10    | <5     | 2.20   |
| SI R5137      |               | <100   | 5.4    | 20     | <0.5   | 4      | <50    | 32     | 3.8    | 16.0   | <10    | <5     | 1.90   |
| SI R5138      |               | <100   | 6.3    | 18     | <0.5   | <2     | <50    | 38     | 4.4    | 23.0   | <10    | <5     | 2.10   |
| SI R5139      |               | <100   | 5.7    | 15     | <0.5   | 2      | <50    | 28     | 4.0    | 21.0   | <10    | <5     | 1.90   |
| SI R5140      |               | <100   | 6.1    | 16     | <0.5   | <2     | 82     | 39     | 4.0    | 23.0   | <10    | <5     | 2.10   |
| SI R5141      |               | <100   | 5.8    | 15     | <0.5   | <2     | 160    | 21     | 3.9    | 21.0   | <10    | <5     | 2.00   |
| SI R5142      |               | <100   | 5.3    | 16     | <0.5   | <2     | 52     | 34     | 3.8    | 20.0   | <10    | <5     | 1.90   |
| SI R5143      |               | <100   | 6.9    | 16     | <0.5   | <2     | 140    | 50     | 4.2    | 25.0   | <10    | <5     | 2.20   |
| SI R5144      |               | <100   | 6.5    | 18     | <0.5   | <2     | <50    | 51     | 4.5    | 23.0   | <10    | <5     | 2.30   |
| SI R5145      |               | <100   | 6.0    | 15     | <0.5   | <2     | 74     | 27     | 4.1    | 25.0   | <10    | <5     | 2.00   |
| SI R5146      |               | <100   | 6.6    | 12     | <0.5   | <2     | 120    | 30     | 3.7    | 32.0   | <10    | <5     | 2.40   |
| SI R5147      |               | <100   | 8.3    | 6      | <0.5   | <2     | 93     | <10    | 2.6    | 34.0   | <10    | <5     | 1.80   |
| SI R5148      |               | <100   | 5.9    | 16     | <0.5   | <2     | 96     | 28     | 3.7    | 21.0   | <10    | <5     | 2.20   |
| SI R5149      |               | <100   | 6.6    | 17     | <0.5   | <2     | 70     | 47     | 4.3    | 24.0   | <10    | <5     | 2.30   |
| SI R5301      |               | <100   | 2.6    | 17     | <0.5   | 2      | <50    | 33     | 2.6    | 7.2    | <10    | <5     | 3.10   |
| SI ?          |               | <100   | 5.4    | 16     | <0.5   | <2     | <50    | 34     | 4.1    | 18.0   | <10    | <5     | 2.20   |
| SI R5303      |               | <100   | 6.7    | 20     | <0.5   | <2     | 180    | 56     | 4.4    | 29.0   | <10    | <5     | 1.90   |
| SI R5304      |               | <100   | 5.0    | 30     | 0.6    | 3      | 96     | 23     | 7.8    | 19.0   | <10    | <5     | 1.60   |
| SI R5305      |               | <100   | 4.1    | 25     | <0.5   | <2     | 76     | 39     | 5.6    | 15.0   | <10    | <5     | 1.80   |
| SI R5306      |               | <100   | 5.3    | 25     | <0.5   | <2     | 98     | 30     | 5.2    | 19.0   | <10    | <5     | 2.00   |

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| SAMPLE NUMBER | ELEMENT UNITS | Ta PPM | Te PPM | Tb PPM | Tl PPM | Sn PPM | W PPM | U PPM | Yb PPM | Zn PPM | Zr PPM | Pt PPM | Pd PPM |
|---------------|---------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| SI R5116      |               | <1     | <20    | <1     | 2.7    | <200   | <2    | 1.3   | <5     | <200   | <500   | <15    | 6      |
| SI R5117      |               | <1     | <20    | 1      | 2.4    | <200   | <2    | 1.2   | <5     | <200   | <500   | <15    | 6      |
| SI R5118      |               | <1     | <20    | <1     | 3.4    | <200   | <2    | 1.5   | <5     | 290    | <500   | <15    | 2      |
| SI R5119      |               | <1     | <20    | <1     | 1.7    | <200   | <2    | 1.1   | <5     | <200   | 670    | 15     | 6      |
| SI R5120      |               | <1     | <20    | <1     | 2.2    | <200   | <2    | 1.3   | <5     | <200   | <500   | <15    | 4      |
| SI R5121      |               | <1     | <20    | 1      | 2.1    | <200   | <2    | 1.4   | <5     | <200   | <500   | 20     | 4      |
| SI R5122      |               | <1     | <20    | <1     | 2.3    | <200   | <2    | 1.1   | <5     | <200   | <500   | 20     | 4      |
| SI R5123      |               | <1     | <20    | <1     | 2.2    | <200   | <2    | 1.1   | <5     | <200   | <500   | <15    | 2      |
| SI R5124      |               | <1     | <20    | <1     | 2.4    | <200   | <2    | 1.2   | <5     | <200   | <500   | 20     | 4      |
| SI R5125      |               | <1     | <20    | <1     | 2.6    | <200   | <2    | 1.1   | <5     | 260    | <500   | <15    | 4      |
| SI R5126      |               | <1     | <20    | <1     | 1.9    | <200   | <2    | 1.1   | <5     | <200   | <500   | <15    | 4      |
| SI R5127      |               | <1     | <20    | 1      | 2.3    | <200   | <2    | 1.2   | <5     | 210    | <500   | 15     | 4      |
| SI R5128      |               | <1     | <20    | 1      | 5.0    | <200   | <2    | 3.3   | <5     | 200    | <500   | <15    | 4      |
| SI R5129      |               | <1     | <20    | <1     | 1.4    | <200   | <2    | 0.5   | <5     | <200   | <500   | 30     | 25     |
| SI R5130      |               | <1     | <20    | <1     | 2.1    | <200   | <2    | 0.6   | <5     | <200   | <500   | 30     | 6      |
| SI R5131      |               | <1     | <20    | 1      | 2.3    | <200   | <2    | 1.0   | <5     | 220    | <500   | 20     | 20     |
| SI R5132      |               | <1     | <20    | <1     | <0.5   | <200   | <2    | 0.5   | <5     | <200   | <500   | 20     | 20     |
| SI R5133      |               | <1     | <20    | <1     | 2.4    | <200   | <2    | 1.0   | <5     | <200   | <500   | <15    | 6      |
| SI R5134      |               | <1     | <20    | <1     | 2.9    | <200   | <2    | 1.9   | <5     | <200   | <500   | <15    | 2      |
| SI R5135      |               | <1     | <20    | <1     | 3.2    | <200   | <2    | 2.0   | <5     | <200   | <500   | 15     | 2      |
| SI R5136      |               | <1     | <20    | <1     | 2.3    | <200   | <2    | 1.9   | <5     | <200   | <500   | 20     | 2      |
| SI R5137      |               | <1     | <20    | <1     | 3.5    | <200   | <2    | 2.3   | <5     | <200   | <500   | <15    | 2      |
| SI R5138      |               | <1     | <20    | <1     | 2.6    | <200   | 2     | 2.0   | <5     | <200   | <500   | 20     | 6      |
| SI R5139      |               | <1     | <20    | <1     | 3.0    | <200   | <2    | 1.6   | <5     | <200   | <500   | 15     | 4      |
| SI R5140      |               | <1     | <20    | <1     | 3.1    | <200   | <2    | 1.5   | <5     | <200   | <500   | 30     | 4      |
| SI R5141      |               | <1     | <20    | <1     | 2.9    | <200   | <2    | 1.6   | <5     | <200   | <500   | <15    | 6      |
| SI R5142      |               | <1     | <20    | 2      | 2.8    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 2      |
| SI R5143      |               | <1     | <20    | <1     | 2.7    | <200   | <2    | 1.5   | <5     | <200   | <500   | 15     | 2      |
| SI R5144      |               | <1     | <20    | <1     | 3.0    | <200   | <2    | 1.5   | <5     | 240    | <500   | 30     | 2      |
| SI R5145      |               | <1     | <20    | <1     | 2.6    | <200   | 2     | 1.5   | <5     | <200   | <500   | 50     | 6      |
| SI R5146      |               | <1     | <20    | <1     | 2.7    | <200   | <2    | 0.8   | <5     | <200   | <500   | 40     | 6      |
| SI R5147      |               | <1     | <20    | <1     | 1.1    | <200   | <2    | 0.5   | <5     | 230    | <500   | 40     | 15     |
| SI R5148      |               | <1     | <20    | <1     | 3.2    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 2      |
| SI R5149      |               | <1     | <20    | <1     | 2.5    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 2      |
| SI R5301      |               | <1     | <20    | <1     | 3.9    | <200   | <2    | 1.8   | <5     | <200   | <500   | <15    | 4      |
| SI R5302      |               | <1     | <20    | <1     | 2.5    | <200   | <2    | 1.6   | <5     | <200   | <500   | 15     | <2     |
| SI R5303      |               | <1     | <20    | <1     | 4.1    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 2      |
| SI R5304      |               | <1     | <20    | 2      | 5.0    | <200   | <2    | 2.6   | <5     | <200   | <500   | <15    | 6      |
| SI R5305      |               | <1     | <20    | <1     | 5.9    | <200   | <2    | 3.0   | <5     | 230    | <500   | <15    | 4      |
| SI R5306      |               | <1     | <20    | 1      | 4.4    | <200   | <2    | 2.5   | <5     | 240    | <500   | 25     | 4      |

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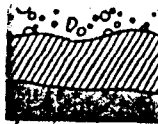
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| SAMPLE NUMBER | ELEMENT UNITS | Au PFB | Sb PPM | As PPM | Ba PPM | Br PPM | Cd PPM | Ce PPM | Cs PPM | Cr PPM | Co PPM | Eu PPM | Hf PPM |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| S1 R5307      |               | 13     | 1.4    | 20     | 870    | <5     | <10    | 63     | <1     | 150    | 29     | <2     | 5      |
| S1 R5308      |               | 11     | 1.2    | 20     | 830    | <5     | <10    | 69     | 1      | 220    | 53     | 2      | 4      |
| S1 R5309      |               | <5     | <0.2   | <1     | 440    | <5     | <10    | 22     | <1     | 190    | 12     | <2     | <2     |
| S1 R5310      |               | 8      | 0.7    | 5      | 580    | <5     | <10    | 26     | 2      | 270    | <10    | <2     | 5      |
| S1 R5311      |               | <5     | 1.1    | 13     | 660    | <5     | <10    | 51     | 1      | 110    | 21     | <2     | 2      |
| S1 R5313      |               | <5     | 0.8    | 8      | 470    | <5     | <10    | 32     | 3      | 200    | 24     | <2     | 5      |
| S1 R5314      |               | <5     | 0.9    | 12     | 740    | <5     | <10    | 46     | 2      | 160    | 26     | <2     | 2      |
| S1 R5315      |               | 5      | 1.0    | 14     | 640    | 6      | <10    | 48     | 1      | 130    | 21     | <2     | 4      |
| S1 R5316      |               | 5      | 1.0    | 11     | 500    | <5     | <10    | 38     | 1      | 750    | 63     | <2     | 3      |
| S1 R5317      |               | <5     | 0.6    | 48     | 250    | <5     | <10    | 49     | 2      | 140    | 30     | 2      | 3      |
| S1 R5318      |               | <5     | 0.4    | 5      | 240    | <5     | <10    | <10    | <1     | 850    | 53     | <2     | <2     |
| S1 R5319      |               | 8      | 1.7    | 9      | 350    | <5     | <10    | <10    | 1      | 430    | 75     | <2     | <2     |
| S1 R5321      |               | 26     | 2.4    | 133    | 350    | <5     | <10    | 76     | 2      | 71     | 27     | <2     | 3      |
| S1 R5322      |               | 20     | 3.2    | 62     | 1100   | <5     | <10    | 65     | 5      | 68     | 20     | <2     | 5      |
| S1 R5323      |               | 15     | 1.8    | 59     | 350    | <5     | <10    | 31     | 1      | 110    | 24     | <2     | 4      |
| S1 R5324      |               | 12     | 2.8    | 23     | 450    | <5     | <10    | 27     | 1      | 87     | 27     | <2     | <2     |
| S1 R5325      |               | <5     | 0.7    | 11     | 650    | <5     | <10    | 46     | 1      | 110    | 27     | 3      | 5      |
| S1 R5326      |               | 13     | 1.1    | 14     | 920    | <5     | <10    | 30     | 1      | 260    | 50     | <2     | 3      |
| S1 R5327      |               | 10     | 1.0    | 5      | 530    | <5     | <10    | <10    | 1      | 360    | 86     | <2     | <2     |
| S1 R5328      |               | 7      | 0.7    | 10     | 550    | 5      | <10    | 49     | 2      | 150    | 36     | <2     | 2      |
| S1 R5329      |               | <5     | 2.9    | 601    | 330    | 6      | <10    | 32     | <1     | 57     | 21     | <2     | <2     |
| S1 R5330      |               | 7      | 3.8    | 99     | 290    | <5     | 12     | 21     | <1     | <50    | 22     | <2     | <2     |
| S1 R5368      |               | 13     | 1.5    | 4      | <100   | <5     | <10    | 34     | 4      | 210    | 64     | <2     | 4      |
| S1 R5369      |               | 8      | 1.4    | 3      | 160    | <5     | <10    | 48     | <1     | 180    | 62     | <2     | 3      |
| S1 R5370      |               | <5     | 1.0    | 6      | 310    | <5     | <10    | 37     | 2      | 200    | 42     | <2     | 2      |
| S1 R5371      |               | <5     | 0.9    | <1     | <100   | <5     | <10    | <10    | 2      | 380    | 71     | <2     | 3      |
| S1 R5372      |               | 11     | 1.2    | 13     | 710    | <5     | <10    | 26     | 3      | 190    | 49     | 3      | <2     |
| S1 R5373      |               | 10     | 0.7    | 6      | 450    | <5     | <10    | 34     | 2      | 220    | 22     | <2     | 2      |
| S1 R5374      |               | 56     | 5.0    | 85     | 270    | <5     | <10    | 27     | 9      | 240    | 57     | <2     | <2     |
| S1 R5375      |               | 22     | 1.4    | 22     | 650    | <5     | 31     | 52     | 2      | 210    | 53     | 2      | 3      |
| S1 R5376      |               | 25     | 1.5    | 8      | 390    | <5     | <10    | <10    | 3      | 540    | 79     | <2     | <2     |
| S1 R5377      |               | 75     | 2.1    | 137    | 1400   | <5     | <10    | <10    | 11     | 400    | 67     | <2     | <2     |
| S1 R5378      |               | 40     | 1.9    | 11     | 420    | <5     | <10    | 12     | 3      | 200    | 53     | <2     | <2     |
| S1 R5379      |               | 17     | 1.6    | 14     | 390    | <5     | <10    | 28     | 3      | 220    | 46     | <2     | <2     |
| S1 R5380      |               | 24     | 0.5    | 3      | 220    | <5     | <10    | 44     | 4      | 200    | 46     | <2     | 3      |
| S1 R5383      |               | <5     | 0.7    | 7      | 530    | <5     | <10    | 23     | <1     | 230    | 26     | <2     | 4      |
| S1 R5384      |               | 8      | 0.7    | 7      | 750    | <5     | <10    | 33     | <1     | 210    | 32     | <2     | 3      |
| S1 R5385      |               | <5     | 0.7    | 7      | 360    | 7      | <10    | 33     | 1      | 140    | 12     | <2     | 2      |
| S1 R5386      |               | 7      | 2.0    | 26     | 1500   | <5     | <10    | 36     | 2      | 170    | 33     | <2     | 2      |
| S1 R5388      |               | <5     | 0.9    | 10     | 490    | <5     | <10    | 42     | 2      | 430    | 57     | 2      | <2     |

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| SAMPLE NUMBER | ELEMENT UNITS | Ir PPM | Fe PCT | La PPM | Lu PPM | Mo PPM | Ni PPM | Rb PPM | Sm PPM | Sc PPM | Se PPM | Ag PPM | Na PCT |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| S1 R5307      |               | <100   | 5.8    | 28     | <0.5   | 6      | 93     | 60     | 6.9    | 24.0   | <10    | 8      | 2.30   |
| S1 R5308      |               | <100   | 6.3    | 25     | <0.5   | <2     | 92     | 45     | 6.8    | 27.0   | <10    | <5     | 2.20   |
| S1 R5309      |               | <100   | 2.9    | 13     | <0.5   | 2      | <50    | 30     | 2.4    | 8.2    | <10    | <5     | 3.40   |
| S1 R5310      |               | <100   | 3.2    | 16     | <0.5   | <2     | <50    | 36     | 2.9    | 11.0   | <10    | <5     | 3.00   |
| S1 R5311      |               | <100   | 6.0    | 17     | <0.5   | <2     | 52     | 22     | 4.2    | 23.0   | <10    | 6      | 2.20   |
| S1 R5313      |               | <100   | 4.2    | 17     | <0.5   | <2     | <50    | 22     | 3.3    | 13.0   | <10    | <5     | 2.20   |
| S1 R5314      |               | <100   | 4.6    | 16     | <0.5   | <2     | <50    | 48     | 4.1    | 20.0   | <10    | 9      | 2.20   |
| S1 R5315      |               | <100   | 3.7    | 21     | <0.5   | <2     | <50    | 29     | 3.8    | 13.0   | <10    | 5      | 2.20   |
| S1 R5316      |               | <100   | 6.6    | 11     | <0.5   | <2     | 240    | 19     | 3.5    | 25.0   | <10    | <5     | 2.10   |
| S1 R5317      |               | <100   | 5.1    | 20     | 0.7    | <2     | 57     | 33     | 6.5    | 18.0   | <10    | 7      | 3.60   |
| S1 R5318      |               | <100   | 6.6    | <5     | <0.5   | <2     | 260    | <10    | 1.6    | 34.0   | <10    | <5     | 0.51   |
| S1 R5319      |               | <100   | 9.1    | 6      | <0.5   | <2     | 120    | 20     | 2.0    | 38.0   | <10    | <5     | 1.40   |
| S1 R5321      |               | <100   | 3.6    | 31     | <0.5   | <2     | 53     | 43     | 5.6    | 15.0   | <10    | <5     | 2.00   |
| S1 R5322      |               | <100   | 6.2    | 26     | 0.8    | <2     | <50    | 82     | 7.5    | 18.0   | <10    | <5     | 1.40   |
| S1 R5323      |               | <100   | 6.4    | 16     | <0.5   | <2     | <50    | 18     | 4.4    | 27.0   | <10    | <5     | 1.80   |
| S1 R5324      |               | <100   | 5.9    | 12     | <0.5   | 2      | <50    | 52     | 3.8    | 25.0   | <10    | <5     | 1.30   |
| S1 R5325      |               | <100   | 3.4    | 23     | <0.5   | <2     | 58     | 26     | 5.5    | 14.0   | <10    | <5     | 2.10   |
| S1 R5326      |               | <100   | 6.6    | 13     | <0.5   | <2     | 140    | 41     | 4.4    | 24.0   | <10    | <5     | 1.60   |
| S1 R5327      |               | <100   | 9.2    | <5     | <0.5   | <2     | 200    | 25     | 1.6    | 35.0   | <10    | <5     | 1.40   |
| S1 R5328      |               | <100   | 5.0    | 18     | <0.5   | <2     | 75     | 23     | 3.7    | 17.0   | <10    | <5     | 1.50   |
| S1 R5329      |               | <100   | 6.1    | 15     | <0.5   | 4      | <50    | <10    | 4.1    | 12.0   | <10    | <5     | 1.30   |
| S1 R5330      |               | <100   | 4.9    | 21     | <0.5   | <2     | 69     | 16     | 4.7    | 12.0   | <10    | <5     | 1.20   |
| S1 R5368      |               | <100   | 10.0   | 9      | <0.5   | <2     | 82     | 17     | 4.0    | 44.0   | <10    | <5     | 2.00   |
| S1 R5369      |               | <100   | 9.4    | 9      | <0.5   | <2     | 110    | 20     | 4.0    | 39.0   | <10    | <5     | 2.20   |
| S1 R5370      |               | <100   | 7.4    | 14     | <0.5   | <2     | <50    | 20     | 4.7    | 31.0   | <10    | <5     | 2.50   |
| S1 R5371      |               | <100   | 8.9    | <5     | <0.5   | <2     | 120    | 19     | 3.0    | 51.1   | <10    | <5     | 2.70   |
| S1 R5372      |               | <100   | 9.2    | 14     | <0.5   | <2     | 99     | <10    | 4.6    | 33.0   | <10    | <5     | 2.40   |
| S1 R5373      |               | <100   | 6.1    | 16     | <0.5   | <2     | <50    | 20     | 4.4    | 25.0   | <10    | <5     | 2.40   |
| S1 R5374      |               | <100   | 7.3    | 8      | <0.5   | <2     | 110    | 27     | 3.0    | 40.0   | <10    | <5     | 1.60   |
| S1 R5375      |               | <100   | 7.9    | 22     | <0.5   | 3      | 73     | 33     | 5.4    | 32.0   | <10    | <5     | 2.00   |
| S1 R5376      |               | <100   | 9.4    | <5     | <0.5   | <2     | 200    | 16     | 1.9    | 44.0   | <10    | <5     | 2.00   |
| S1 R5377      |               | <100   | 7.0    | <5     | <0.5   | <2     | 170    | 36     | 2.0    | 31.0   | <10    | <5     | 1.00   |
| S1 R5378      |               | <100   | 8.0    | 7      | <0.5   | <2     | 86     | 24     | 2.7    | 38.0   | <10    | 9      | 2.20   |
| S1 R5379      |               | <100   | 8.2    | 10     | <0.5   | <2     | 64     | <10    | 3.4    | 37.0   | <10    | <5     | 2.30   |
| S1 R5380      |               | <100   | 9.0    | 10     | <0.5   | <2     | 110    | 19     | 5.6    | 41.0   | <10    | <5     | 2.50   |
| S1 R5383      |               | <100   | 4.4    | 17     | <0.5   | <2     | 63     | 32     | 3.9    | 20.0   | <10    | 5      | 2.30   |
| S1 R5384      |               | <100   | 6.0    | 11     | <0.5   | 2      | 120    | 39     | 3.8    | 22.0   | <10    | <5     | 1.90   |
| S1 R5385      |               | <100   | 2.8    | 12     | <0.5   | 2      | <50    | 31     | 2.4    | 12.0   | <10    | <5     | 1.20   |
| S1 R5386      |               | <100   | 4.8    | 20     | <0.5   | 3      | 90     | 54     | 4.1    | 21.0   | <10    | <5     | 1.60   |
| S1 R5388      |               | <100   | 8.8    | 13     | <0.5   | <2     | 170    | <10    | 2.6    | 35.0   | <10    | <5     | 2.10   |



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| SAMPLE NUMBER | ELEMENT UNITS | Ta PPM | Te PPM | Tb PPM | Th PPM | Sn PPM | W PPM | U PPM | Yb PPM | Zn PPM | Zr PPM | Pt PPM | Pd PPM |
|---------------|---------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| S1 R5307      |               | <1     | <20    | 1      | 5.1    | <200   | <2    | 2.5   | <5     | <200   | <500   | <15    | 4      |
| S1 R5308      |               | <1     | <20    | 1      | 4.5    | <200   | <2    | 1.7   | <5     | <200   | 1000   | 20     | 4      |
| S1 R5309      |               | <1     | <20    | <1     | 2.1    | <200   | 2     | 1.2   | <5     | <200   | <500   | 40     | 4      |
| S1 R5310      |               | 1      | <20    | <1     | 3.3    | <200   | <2    | 1.7   | <5     | <200   | <500   | 20     | 4      |
| S1 R5311      |               | <1     | <20    | <1     | 2.8    | <200   | <2    | 1.4   | <5     | <200   | <500   | 15     | <2     |
| S1 R5313      |               | <1     | <20    | <1     | 4.5    | <200   | <2    | 2.2   | <5     | <200   | <500   | <15    | <2     |
| S1 R5314      |               | <1     | <20    | 1      | 3.3    | <200   | <2    | 1.3   | <5     | 250    | <500   | <15    | 6      |
| S1 R5315      |               | <1     | <20    | 1      | 4.6    | <200   | <2    | 1.9   | <5     | <200   | <500   | <15    | 2      |
| S1 R5316      |               | <1     | <20    | 1      | 2.5    | <200   | <2    | 1.1   | <5     | <200   | <500   | <15    | 4      |
| S1 R5317      |               | <1     | <20    | 2      | 5.5    | <200   | <2    | 2.6   | <5     | 230    | <500   | 15     | 2      |
| S1 R5318      |               | <1     | <20    | <1     | <0.5   | <200   | <2    | <0.5  | <5     | <200   | <500   | <15    | 6      |
| S1 R5319      |               | <1     | <20    | <1     | 1.1    | <200   | <2    | 0.7   | <5     | <200   | <500   | 20     | 20     |
| S1 R5321      |               | <1     | <20    | 1      | 5.4    | <200   | <2    | 2.8   | <5     | <200   | 540    | <15    | <2     |
| S1 R5322      |               | <1     | <20    | 2      | 8.7    | <200   | 3     | 4.7   | 7      | <200   | <500   | <15    | 4      |
| S1 R5323      |               | <1     | <20    | 1      | 2.5    | <200   | <2    | 1.5   | <5     | <200   | <500   | 20     | <2     |
| S1 R5324      |               | <1     | <20    | <1     | 2.1    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | <2     |
| S1 R5325      |               | <1     | <20    | 1      | 3.8    | <200   | <2    | 1.8   | <5     | 210    | <500   | 15     | <2     |
| S1 R5326      |               | <1     | <20    | <1     | 2.9    | <200   | <2    | 1.1   | <5     | <200   | 880    | 20     | 6      |
| S1 R5327      |               | <1     | <20    | <1     | 0.6    | <200   | <2    | <0.5  | <5     | <200   | <500   | <15    | 8      |
| S1 R5328      |               | <1     | <20    | <1     | 3.0    | <200   | <2    | 1.4   | <5     | <200   | <500   | <15    | 10     |
| S1 R5329      |               | <1     | <20    | <1     | 1.5    | <200   | <2    | 1.1   | <5     | 210    | <500   | 15     | 4      |
| S1 R5330      |               | <1     | <20    | <1     | 1.8    | <200   | <2    | 1.7   | <5     | 230    | <500   | <15    | 4      |
| S1 R5368      |               | <1     | <20    | 1      | <0.5   | <200   | <2    | <0.5  | <5     | 260    | <500   | 20     | 20     |
| S1 R5369      |               | <1     | <20    | <1     | 1.5    | <200   | <2    | <0.5  | <5     | <200   | <500   | 15     | 10     |
| S1 R5370      |               | <1     | <20    | <1     | 2.3    | <200   | <2    | 1.1   | <5     | <200   | <500   | <15    | 35     |
| S1 R5371      |               | <1     | <20    | 1      | 0.8    | <200   | <2    | <0.5  | <5     | 280    | <500   | <15    | 15     |
| S1 R5372      |               | <1     | <20    | 1      | 1.0    | <200   | <2    | 1.2   | <5     | <200   | <500   | <15    | 10     |
| S1 R5373      |               | <1     | <20    | <1     | 2.2    | <200   | <2    | 1.1   | <5     | <200   | <500   | 20     | 6      |
| S1 R5374      |               | <1     | <20    | 1      | 0.9    | <200   | <2    | <0.5  | <5     | <200   | <500   | <15    | 10     |
| S1 R5375      |               | <1     | <20    | 2      | 4.0    | <200   | <2    | 2.0   | <5     | 6200   | <500   | 30     | 15     |
| S1 R5376      |               | <1     | <20    | <1     | <0.5   | <200   | 3     | <0.5  | <5     | <200   | <500   | 40     | 25     |
| S1 R5377      |               | <1     | <20    | <1     | <0.5   | <200   | 3     | <0.5  | <5     | 210    | <500   | 20     | 30     |
| S1 R5378      |               | <1     | <20    | <1     | 1.2    | <200   | <2    | 0.6   | <5     | <200   | <500   | 20     | 25     |
| S1 R5379      |               | <1     | <20    | <1     | 1.8    | <200   | <2    | 0.8   | <5     | <200   | <500   | 20     | 20     |
| S1 R5380      |               | <1     | <20    | 1      | 1.4    | <200   | 2     | <0.5  | <5     | 360    | <500   | 30     | 30     |
| S1 R5381      |               | <1     | <20    | <1     | 2.8    | <200   | <2    | 1.6   | <5     | <200   | <500   | 20     | 2      |
| S1 R5384      |               | <1     | <20    | 1      | 1.6    | <200   | 3     | 1.1   | <5     | <200   | <500   | <15    | 6      |
| S1 R5385      |               | <1     | <20    | <1     | 2.2    | <200   | <2    | 1.4   | <5     | <200   | <500   | 30     | <2     |
| S1 R5386      |               | <1     | <20    | <1     | 3.8    | <200   | <2    | 2.2   | <5     | 750    | <500   | <15    | <2     |
| S1 R5388      |               | <1     | <20    | <1     | 2.6    | <200   | <2    | 1.4   | <5     | 220    | <500   | 30     | 10     |



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| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Sb PPM | As PPM | Ba PPM | Br PPM | Cd PPM | Ca PPM | Cs PPM | Cr PPM | Co PPM | Eu PPM | Hf PPM |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SI R5390      |               | <5     | 0.8    | 9      | 560    | <5     | <10    | 21     | 2      | 300    | 39     | 2      | 3      |
| SI R5391      |               | <5     | 1.0    | 11     | 600    | <5     | <10    | 54     | 2      | 260    | 29     | <2     | 3      |
| SI R5392      |               | <5     | 0.9    | 8      | 590    | <5     | <10    | 45     | 2      | 220    | 25     | <2     | 3      |
| SI R5393      |               | 8      | 1.1    | 12     | 730    | <5     | <10    | 45     | 1      | 230    | 39     | <2     | 3      |
| SI R5394      |               | <5     | 0.9    | 11     | 700    | <5     | <10    | 22     | 2      | 260    | 33     | <2     | 3      |
| SI R5395      |               | <5     | 1.0    | 11     | 650    | <5     | <10    | 58     | 3      | 200    | 36     | 2      | 4      |
| SI R5396      |               | 9      | 0.9    | 9      | 560    | <5     | <10    | 47     | 4      | 140    | 34     | <2     | <2     |
| SI R5397      |               | <5     | 0.9    | 9      | 680    | <5     | <10    | 49     | 2      | 310    | 37     | <2     | 4      |
| SI R5398      |               | <5     | 1.8    | 11     | 450    | <5     | <10    | 31     | 2      | 270    | 50     | <2     | 4      |
| SI R5399      |               | 6      | 0.8    | 9      | 540    | <5     | <10    | 46     | 2      | 280    | 25     | <2     | 3      |
| SI R5400      |               | <5     | 1.1    | 14     | 790    | <5     | <10    | 36     | <1     | 210    | 16     | <2     | 5      |
| SI R5401      |               | 13     | 0.9    | 10     | 830    | <5     | <10    | 48     | 2      | 190    | 27     | 3      | 4      |
| SI R5402      |               | 12     | 1.0    | 12     | 790    | <5     | <10    | 46     | 1      | 170    | 31     | <2     | 3      |
| SI R5403      |               | 11     | 0.8    | 11     | 630    | <5     | <10    | 26     | <1     | 150    | 27     | <2     | 2      |
| SI R5404      |               | <5     | 0.9    | 10     | 700    | <5     | <10    | 39     | <1     | 100    | 26     | <2     | 4      |
| SI R5405      |               | <5     | 1.0    | 12     | 620    | <5     | <10    | 21     | <1     | 140    | 29     | <2     | 3      |
| SI R5406      |               | <5     | 0.9    | 12     | 570    | <5     | <10    | 38     | 3      | 130    | 31     | <2     | 3      |
| SI R5407      |               | <5     | 0.7    | 8      | 680    | <5     | 10     | 22     | 1      | 150    | 28     | <2     | 4      |
| SI R5408      |               | <5     | 0.9    | 9      | 570    | <5     | <10    | 32     | 2      | 170    | 41     | <2     | <2     |
| SI R5409      |               | 10     | 1.0    | 11     | 580    | <5     | <10    | 45     | 2      | 150    | 32     | <2     | <2     |
| SI R5410      |               | <5     | 1.1    | 15     | 630    | <5     | <10    | 47     | 3      | 130    | 34     | 2      | 3      |
| SI R5411      |               | 10     | 1.1    | 14     | 760    | <5     | <10    | 33     | <1     | 110    | 30     | <2     | 3      |
| SI R5412      |               | 9      | 1.0    | 13     | 610    | <5     | <10    | 50     | 2      | 81     | 43     | <2     | <2     |
| SI R5413      |               | <5     | 0.8    | 10     | 510    | <5     | <10    | 48     | 1      | 140    | 38     | 2      | 3      |
| SI R5414      |               | <5     | 1.0    | 15     | 640    | <5     | <10    | 58     | 1      | 200    | 33     | 2      | 2      |
| SI R5415      |               | <5     | 0.9    | 9      | 570    | <5     | <10    | 38     | 1      | 210    | 26     | <2     | 3      |
| SI R5416      |               | 6      | 1.5    | 16     | 1100   | <5     | <10    | 43     | <1     | 290    | 35     | <2     | <2     |
| SI R5417      |               | 6      | 0.8    | 12     | 590    | <5     | <10    | 43     | 2      | 140    | 32     | <2     | <2     |
| SI R5418      |               | 9      | 3.2    | 35     | 1100   | <5     | <10    | 66     | 2      | 58     | 35     | 3      | 4      |
| SI R5419      |               | <5     | 1.0    | 13     | 710    | <5     | <10    | 48     | <1     | 170    | 32     | <2     | 3      |
| SI R5420      |               | 16     | 1.7    | 26     | 900    | <5     | <10    | 57     | 2      | 150    | 43     | <2     | 4      |
| SI R5421      |               | 8      | 0.9    | 13     | 630    | <5     | <10    | 40     | 2      | 130    | 35     | <2     | <2     |
| SI R5422      |               | 7      | 1.0    | 10     | 760    | <5     | <10    | 54     | 1      | 140    | 27     | <2     | <2     |
| SI R5423      |               | 18     | 1.2    | 17     | 690    | <5     | <10    | 35     | 1      | 140    | 31     | <2     | 3      |
| SI R5424      |               | <5     | 0.9    | 13     | 600    | <5     | <10    | 30     | 1      | 120    | 25     | <2     | 3      |
| SI R5425      |               | 8      | 0.9    | 15     | 550    | <5     | <10    | 41     | <1     | 190    | 24     | <2     | 2      |
| SI R5426      |               | <5     | 0.9    | 13     | 490    | <5     | <10    | 45     | 1      | 230    | 34     | <2     | 4      |
| SI R5428      |               | <5     | 1.3    | 8      | 840    | <5     | <10    | 20     | 1      | 440    | 51     | <2     | <2     |
| SI R5429      |               | 380    | 8.9    | 6      | 200    | <5     | <10    | <10    | <1     | 1500   | 200    | <2     | <2     |
| SI R5430      |               | 6      | 1.4    | 23     | 770    | <5     | <10    | 35     | <1     | 170    | 48     | <2     | 4      |



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| SAMPLE NUMBER | ELEMENT UNITS | Ir PPR | Fe PCT | La PPM | Lu PPM | Mo PPM | Ni PPM | Rb PPM | Sa PPM | Sc PPM | Se PPM | Ag PPM | Na PCT |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| S1 R5390      |               | <100   | 7.0    | 17     | <0.5   | <2     | 80     | <10    | 4.1    | 28.0   | <10    | 10     | 2.30   |
| S1 R5391      |               | <100   | 5.7    | 18     | 0.5    | <2     | 95     | 40     | 4.2    | 23.0   | <10    | <5     | 2.20   |
| S1 R5392      |               | <100   | 4.1    | 17     | <0.5   | <2     | 52     | 26     | 3.6    | 16.0   | <10    | 8      | 2.10   |
| S1 R5393      |               | <100   | 5.2    | 21     | <0.5   | <2     | 100    | 24     | 4.9    | 24.0   | <10    | <5     | 2.10   |
| S1 R5394      |               | <100   | 6.1    | 18     | <0.5   | <2     | 130    | 39     | 4.4    | 22.0   | <10    | <5     | 2.10   |
| S1 R5395      |               | <100   | 6.9    | 22     | <0.5   | <2     | 120    | 36     | 5.0    | 25.0   | <10    | <5     | 2.40   |
| S1 R5396      |               | <100   | 5.0    | 14     | <0.5   | <2     | <50    | 23     | 3.5    | 19.0   | <10    | <5     | 1.50   |
| S1 R5397      |               | <100   | 6.2    | 19     | <0.5   | <2     | 72     | 24     | 4.2    | 24.0   | <10    | <5     | 2.30   |
| S1 R5398      |               | <100   | 8.6    | 13     | <0.5   | <2     | 75     | <10    | 4.5    | 32.0   | <10    | <5     | 2.20   |
| S1 R5399      |               | <100   | 4.5    | 18     | <0.5   | <2     | <50    | 20     | 3.9    | 20.0   | <10    | <5     | 2.10   |
| S1 R5400      |               | <100   | 4.6    | 18     | <0.5   | <2     | 81     | 48     | 3.5    | 16.0   | <10    | <5     | 2.30   |
| S1 R5401      |               | <100   | 4.8    | 18     | <0.5   | <2     | <50    | 30     | 4.5    | 21.0   | <10    | <5     | 2.20   |
| S1 R5402      |               | <100   | 5.8    | 17     | <0.5   | <2     | <50    | 38     | 4.7    | 23.0   | <10    | <5     | 2.40   |
| S1 R5403      |               | <100   | 4.9    | 14     | <0.5   | <2     | 69     | 40     | 4.6    | 21.0   | <10    | <5     | 2.10   |
| S1 F          |               | <100   | 5.4    | 14     | <0.5   | <2     | <50    | 55     | 4.6    | 21.0   | <10    | <5     | 2.30   |
| R5405         |               | <100   | 5.8    | 17     | <0.5   | <2     | 84     | 39     | 5.1    | 23.0   | <10    | <5     | 1.70   |
| S1 R5406      |               | <100   | 6.4    | 15     | <0.5   | <2     | 53     | 34     | 4.8    | 26.0   | <10    | <5     | 2.10   |
| S1 R5407      |               | <100   | 5.3    | 15     | <0.5   | <2     | 50     | 64     | 4.2    | 22.0   | <10    | <5     | 2.20   |
| S1 R5408      |               | <100   | 6.1    | 16     | <0.5   | <2     | 60     | 76     | 4.8    | 25.0   | <10    | <5     | 2.20   |
| S1 R5409      |               | <100   | 7.5    | 16     | 0.5    | <2     | <50    | 37     | 4.8    | 28.0   | <10    | <5     | 2.30   |
| S1 R5410      |               | <100   | 6.6    | 21     | <0.5   | <2     | 65     | 22     | 6.1    | 28.0   | <10    | <5     | 2.10   |
| S1 R5411      |               | <100   | 6.1    | 18     | <0.5   | <2     | <50    | 58     | 5.4    | 25.0   | <10    | <5     | 2.10   |
| S1 R5412      |               | <100   | 7.2    | 18     | 0.6    | <2     | <50    | 54     | 5.4    | 30.0   | <10    | <5     | 1.80   |
| S1 R5413      |               | <100   | 6.9    | 18     | <0.5   | <2     | <50    | 50     | 5.2    | 29.0   | <10    | <5     | 2.20   |
| S1 R5414      |               | <100   | 6.7    | 24     | <0.5   | <2     | 76     | 53     | 5.6    | 27.0   | <10    | <5     | 2.10   |
| S1 R5415      |               | <100   | 6.0    | 18     | <0.5   | <2     | <50    | 27     | 4.9    | 25.0   | <10    | 8      | 2.00   |
| S1 R5416      |               | <100   | 6.6    | 21     | 0.5    | <2     | 92     | 71     | 5.0    | 25.0   | <10    | <5     | 1.80   |
| S1 R5417      |               | <100   | 6.0    | 17     | <0.5   | <2     | 53     | 48     | 5.0    | 26.0   | <10    | <5     | 2.30   |
| S1 R5418      |               | <100   | 6.7    | 17     | <0.5   | 4      | 54     | 63     | 5.5    | 23.0   | <10    | 8      | 2.30   |
| S1 R5419      |               | <100   | 6.5    | 18     | <0.5   | <2     | <50    | 47     | 4.7    | 25.0   | <10    | 7      | 2.20   |
| S1 R5420      |               | <100   | 6.6    | 21     | 0.6    | <2     | 68     | 58     | 6.2    | 28.0   | <10    | <5     | 2.10   |
| S1 R5421      |               | <100   | 7.2    | 19     | <0.5   | <2     | 53     | 39     | 5.4    | 27.0   | <10    | 6      | 1.90   |
| S1 R5422      |               | <100   | 5.5    | 17     | <0.5   | 4      | <50    | 16     | 4.5    | 19.0   | <10    | <5     | 2.20   |
| S1 R5423      |               | <100   | 5.9    | 18     | <0.5   | <2     | 59     | 53     | 4.9    | 24.0   | <10    | <5     | 2.10   |
| S1 R5424      |               | <100   | 4.9    | 15     | <0.5   | <2     | <50    | 30     | 4.5    | 20.0   | <10    | <5     | 1.90   |
| S1 K          |               | <100   | 5.4    | 16     | <0.5   | <2     | <50    | 28     | 4.6    | 22.0   | <10    | 5      | 2.10   |
| R5426         |               | <100   | 6.8    | 17     | <0.5   | <2     | 67     | 49     | 4.4    | 26.0   | <10    | <5     | 2.50   |
| S1 R5428      |               | <100   | 7.0    | 10     | <0.5   | <2     | 160    | 30     | 2.9    | 34.0   | <10    | <5     | 1.40   |
| S1 R5429      |               | <100   | 8.5    | <5     | <0.5   | <2     | 2220   | <10    | 0.9    | 7.8    | <10    | <5     | 0.32   |
| S1 R5430      |               | <100   | 8.0    | 20     | <0.5   | <2     | <50    | 46     | 5.0    | 31.0   | <10    | <5     | 2.50   |

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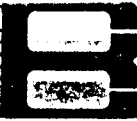
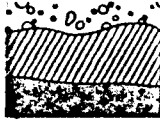
| SAMPLE NUMBER | ELEMENT UNITS | Ta PPM | Te PPM | Tb PPM | Tn PPM | Sn PPM | W PPM | U PPM | Yb PPM | Zn PPM | Zr PPM | Pt PPB | Pd PPB |
|---------------|---------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| SI R5390      |               | <1     | <20    | <1     | 2.9    | <200   | <2    | 0.9   | <5     | 300    | <500   | <15    | 15     |
| SI R5391      |               | <1     | <20    | <1     | 3.9    | <200   | <2    | 1.3   | <5     | <200   | <500   | 30     | 6      |
| SI R5392      |               | <1     | <20    | 2      | 3.6    | <200   | <2    | 1.6   | <5     | 210    | <500   | 20     | 6      |
| SI R5393      |               | 1      | <20    | <1     | 3.6    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 6      |
| SI R5394      |               | <1     | <20    | <1     | 3.3    | <200   | <2    | 1.2   | <5     | 280    | <500   | <15    | 6      |
| SI R5395      |               | <1     | <20    | <1     | 4.6    | <200   | <2    | 2.2   | <5     | <200   | <500   | <15    | 8      |
| SI R5396      |               | <1     | <20    | <1     | 3.4    | <200   | <2    | 1.5   | <5     | <200   | 560    | 30     | 6      |
| SI R5397      |               | <1     | <20    | <1     | 3.5    | <200   | <2    | 2.0   | <5     | 210    | <500   | <15    | 10     |
| SI R5398      |               | <1     | <20    | <1     | 1.3    | <200   | 4     | 0.7   | <5     | <200   | <500   | <15    | 15     |
| SI R5399      |               | <1     | <20    | <1     | 3.7    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 6      |
| SI R5400      |               | <1     | <20    | <1     | 4.2    | <200   | <2    | 2.1   | <5     | <200   | 740    | 30     | 4      |
| SI R5401      |               | <1     | <20    | <1     | 3.6    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 4      |
| SI R5402      |               | <1     | <20    | <1     | 3.1    | <200   | <2    | 1.5   | <5     | 250    | <500   | <15    | 2      |
| SI R5403      |               | <1     | <20    | 1      | 3.1    | <200   | <2    | 1.2   | <5     | <200   | <500   | <15    | <2     |
| SI R5404      |               | <1     | <20    | <1     | 3.1    | <200   | <2    | 1.2   | <5     | <200   | <500   | <15    | 2      |
| SI R5405      |               | <1     | <20    | 1      | 3.5    | <200   | <2    | 1.1   | <5     | <200   | <500   | <15    | <2     |
| SI R5406      |               | <1     | <20    | <1     | 2.9    | <200   | <2    | 1.2   | <5     | <200   | <500   | <15    | 4      |
| SI R5407      |               | <1     | <20    | <1     | 2.2    | <200   | <2    | 1.4   | <5     | <200   | <500   | 15     | 2      |
| SI R5408      |               | <1     | <20    | <1     | 2.8    | <200   | <2    | 1.2   | <5     | <200   | <500   | 15     | <2     |
| SI R5409      |               | <1     | <20    | <1     | 2.7    | <200   | <2    | 1.2   | <5     | <200   | <500   | 20     | <2     |
| SI R5410      |               | <1     | <20    | <1     | 3.3    | <200   | <2    | 1.3   | <5     | <200   | <500   | <15    | 2      |
| SI R5411      |               | <1     | <20    | <1     | 2.7    | <200   | <2    | 1.7   | <5     | 220    | <500   | 20     | 2      |
| SI R5412      |               | <1     | <20    | 2      | 2.5    | <200   | <2    | 0.9   | <5     | 230    | <500   | 30     | 4      |
| SI R5413      |               | <1     | <20    | 1      | 2.4    | <200   | <2    | 1.5   | <5     | <200   | <500   | <15    | 2      |
| SI R5414      |               | <1     | <20    | <1     | 4.3    | <200   | <2    | 1.4   | <5     | 210    | <500   | <15    | 6      |
| SI R5415      |               | <1     | <20    | 1      | 3.4    | <200   | <2    | 1.4   | <5     | <200   | <500   | 15     | 4      |
| SI R5416      |               | <1     | <20    | 1      | 6.3    | <200   | <2    | 2.4   | <5     | <200   | <500   | 15     | 4      |
| SI R5417      |               | <1     | <20    | <1     | 3.1    | <200   | <2    | 1.1   | <5     | <200   | <500   | <15    | 2      |
| SI R5418      |               | <1     | <20    | 2      | 2.8    | <200   | <2    | 1.9   | <5     | <200   | <500   | <15    | 4      |
| SI R5419      |               | <1     | <20    | <1     | 2.7    | <200   | 2     | 1.5   | <5     | <200   | <500   | <15    | <2     |
| SI R5420      |               | <1     | <20    | 1      | 4.5    | <200   | <2    | 1.9   | <5     | 240    | <500   | 15     | 6      |
| SI R5421      |               | <1     | <20    | <1     | 2.9    | <200   | <2    | 1.6   | <5     | <200   | <500   | <15    | <2     |
| SI R5422      |               | <1     | <20    | <1     | 3.1    | <200   | <2    | 1.9   | <5     | <200   | <500   | <15    | 6      |
| SI R5423      |               | <1     | <20    | <1     | 2.3    | <200   | <2    | 1.1   | <5     | 230    | <500   | <15    | 4      |
| SI R5424      |               | <1     | <20    | <1     | 2.7    | <200   | <2    | 1.6   | <5     | 250    | <500   | <15    | 2      |
| SI R5426      |               | <1     | <20    | 1      | 3.1    | <200   | <2    | 1.5   | <5     | <200   | <500   | 15     | 2      |
| SI R5428      |               | <1     | <20    | <1     | 2.3    | <200   | <2    | 0.6   | <5     | <200   | <500   | 20     | 4      |
| SI R5429      |               | <1     | <20    | <1     | <0.5   | <200   | <2    | <0.5  | <5     | <200   | <500   | <15    | 35     |
| SI R5430      |               | <1     | <20    | 1      | 4.1    | <200   | <2    | 1.9   | <5     | <200   | <500   | <15    | 6      |



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| SAMPLE NUMBER | ELEMENT UNITS | Au PPM | Sb PPM | As PPM | Ba PPM | Br PPM | Cd PPM | Ce PPM | Cs PPM | Cr PPM | Co PPM | Eu PPM | Hf PPM |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| S1 R5431      |               | 8      | 1.3    | 11     | 650    | <5     | <10    | 25     | 2      | 230    | 63     | <2     | 2      |
| S1 R5432      |               | 12     | 1.1    | 20     | 590    | <5     | <10    | 45     | 2      | 180    | 47     | <2     | 3      |
| S1 R5433      |               | 15     | 1.6    | 29     | 630    | <5     | <10    | 62     | 3      | 180    | 51     | <2     | 3      |
| S1 R5434      |               | 10     | 1.1    | 15     | 910    | <5     | <10    | 67     | 2      | 110    | 29     | <2     | 3      |
| S1 R5435      |               | <5     | 1.3    | 38     | 890    | <5     | <10    | 23     | 2      | 360    | 67     | <2     | 3      |
| S1 R5436      |               | 13     | 0.9    | 13     | 690    | <5     | <10    | 72     | 2      | 140    | 32     | 2      | 5      |
| S1 R5437      |               | 9      | 1.1    | 13     | 440    | <5     | <10    | 71     | 2      | 180    | 26     | 2      | <2     |
| S1 R5438      |               | <5     | 1.2    | 11     | 600    | <5     | <10    | 45     | 1      | 210    | 26     | <2     | 4      |
| R2 R5320      |               | <5     | 0.7    | 13     | 1900   | <5     | <10    | 56     | 1      | 52     | 20     | <2     | 4      |



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| SAMPLE NUMBER | ELEMENT UNITS | Ir PPM | Fe PCT | La PPM | Lu PPM | Mo PPM | Ni PPM | Rb PPM | Sr PPM | Sc PPM | Se PPM | Ag PPM | Na PCT |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| S1 R5431      |               | <100   | 8.5    | 13     | <0.5   | <2     | 110    | 30     | 3.5    | 29.0   | <10    | <5     | 2.00   |
| S1 R5432      |               | <100   | 7.0    | 17     | <0.5   | <2     | 130    | 44     | 4.6    | 27.0   | <10    | <5     | 1.90   |
| S1 R5433      |               | <100   | 6.4    | 31     | 0.9    | <2     | 86     | 36     | 7.8    | 25.0   | <10    | <5     | 1.90   |
| S1 R5434      |               | <100   | 5.6    | 23     | 0.6    | <2     | <50    | 56     | 6.1    | 24.0   | <10    | <5     | 1.60   |
| S1 R5435      |               | <100   | 7.7    | 14     | <0.5   | <2     | 160    | 31     | 3.1    | 44.0   | <10    | <5     | 2.30   |
| S1 R5436      |               | <100   | 6.4    | 32     | 0.6    | <2     | <50    | 55     | 8.9    | 22.0   | <10    | <5     | 1.60   |
| S1 R5437      |               | <100   | 5.3    | 23     | <0.5   | <2     | 77     | 26     | 5.2    | 21.0   | <10    | <5     | 1.90   |
| S1 R5438      |               | <100   | 5.2    | 20     | <0.5   | <2     | <50    | 35     | 5.3    | 21.0   | <10    | <5     | 2.20   |
| R2 R5320      |               | <100   | 5.6    | 24     | 0.5    | <2     | <50    | 63     | 6.1    | 20.0   | <10    | <5     | 1.90   |



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| SAMPLE NUMBER | ELEMENT UNITS | Ta PPM | Ta PPM | Tb PPM | Tn PPM | Sn PPM | W PPM | U PPM | Yb PPM | Zn PPM | Zr PPM | Pt PPR | Pd PPR |
|---------------|---------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| S1 R5431      |               | <1     | <20    | <1     | 3.0    | <200   | <2    | 1.3   | <5     | <200   | <500   | <15    | 10     |
| S1 R5432      |               | <1     | <20    | <1     | 3.4    | <200   | <2    | 1.5   | <5     | <200   | <500   | <15    | 6      |
| S1 R5433      |               | <1     | <20    | 2      | 6.0    | <200   | <2    | 2.5   | <5     | 260    | <500   | <15    | 8      |
| S1 R5434      |               | <1     | <20    | <1     | 4.1    | <200   | <2    | 2.3   | <5     | 270    | <500   | <15    | 6      |
| S1 R5435      |               | <1     | <20    | <1     | 2.4    | <200   | <2    | 1.3   | <5     | <200   | <500   | <15    | 10     |
| S1 R5436      |               | <1     | <20    | 1      | 5.9    | <200   | <2    | 2.3   | <5     | <200   | <500   | <15    | <2     |
| S1 R5437      |               | <1     | <20    | <1     | 3.3    | <200   | <2    | 1.5   | <5     | <200   | <500   | 15     | 2      |
| S1 R5438      |               | <1     | <20    | 1      | 3.9    | <200   | <2    | 2.0   | <5     | <200   | <500   | <15    | 4      |
| R2 R5320      |               | <1     | <20    | 2      | 3.7    | <200   | <2    | 2.1   | <5     | <200   | <500   | <15    | 4      |