GEOLOGICAL and GEOCHEMICAL

ASSESSMENT REPORT ON

THE JOH PROPERTY

N.T.S.: MAPSHEET 94D/9

Author: D.G. Gill
Operator: Hemlo Gold Mines Inc.
Date: September, 1994

TABLE OF CONTENTS

		PAGE
1.0	INTRODUCTION	1
1.1	Location and Access	1
1.2	Topography and Physiography	1
1.3	History	1
1.4	Claim	5
1.5	Economic Potential	5
1.6	Survey Control	7
1.7	Sampling	7
2.0	GEOLOGY	8
2.1	Regional Geology	8
2.2	Detailed Geology	8
3.0	SOIL GEOCHEMISTRY	11
4.0	CONCLUSIONS	12
	REFERENCES	

APPENDICES

Appendix I : Laboratory Analytical Techniques
Appendix II : Rock Geochemical Descriptions/Assays
Appendix III: Soil Geochemical Assays
Appendix IV: Statement of Costs
Appendix V : Statement of Qualifications

DRAWINGS

		SCALE
Drawing 1:	Location Map	1:2,000,000
Drawing 2:	Claim Location	1:50,000
Drawing 3:	Regional Geology	1:50,000
Drawing 4:	Geology	1:5,000
Drawing 5:	Sample Locations/Assay Values	1:5,000
Drawing 6:	Gold in Soils	1:5,000
Drawing 7:	Copper in Soils	1:5,000

1.0 INTRODUCTION

During the period between June 14 and June 27, 1994, Noranda Exploration Company, Limited conducted soil and rock geochemistry as well as mapping on the Castra Group of claims of the Joh Property.

This report describes the work conducted by Noranda during the early portion of the 1994 field season and incorporates historic date (gained through Government assessment reports) in an effort to define possible Cu-Au occurrences.

1.1 Location and Access

The Joh project area is located approximately 200 km north-northeast of Smithers, B.C. on N.T.S. Mapsheet 94D/9 in the Omineca Mining Division.

Camp mobilization was based at the eastern end of Johanson Lake and the property was accessed via helicopter (see Drawing #1).

1.2 Topography and Physiography

The Joh project area is situated within the Osilinka Ranges and is located directly east of Goldway and Dortatelle Peaks. The claim groupings stretch from Johanson Lake in the north to the upper portions of Darb Creek in the south. Most of the area is above treeline with elevations ranging from 1460 to 2380 meters. The project area is drained by Darb Creek in the north, Johanson Creek to the west and the headwaters of Lay Creek to the east.

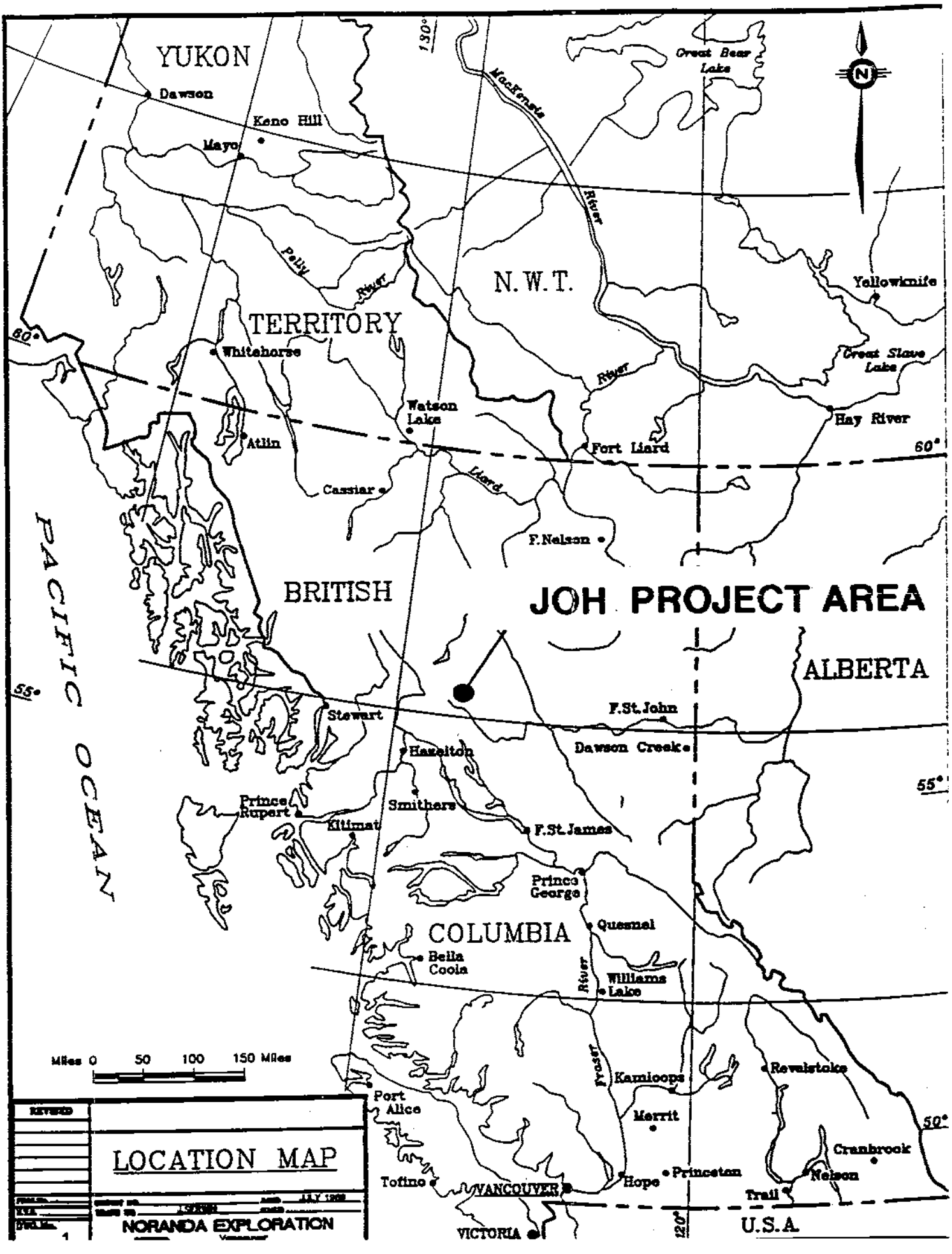
Slopes of +45° occur along the dominantly north-northwest trending ridges although the central portion of the area consists of the Darb Lake valley floor..

1.3 History

Below is a brief outline of documented work performed in the project area in chronological order.

1949: Preliminary work on auriferous quartz veins conducted by Goldway Peak Mines Ltd. in the Goldway Peak area.

1970-1972: The Kliyul property was staked and geochemically and geophysically surveyed by Kennco Explorations. These surveys delineated a 2.5 km x 1.0 km I.P. chargeability anomaly and coincident (yet smaller) copper soil geochemical and magnetic anomalies.


YUKON
TERRITORY
N.W.T.
BRITISH
COLUMBIA
ALBERTA
JOH PROJECT AREA
PACIFIC OCEAN
Dawson
Keno Hill
Mayo
Whitehorse
Watson Lake
Atlin
Cassiar
Fort Liard
F.Nelson
Yellowknife
Great Bear Lake
Great Slave Lake
Hay River
Stewart
Hazelton
Prince Rupert
Kitimat
Smithers
F.St.John
Dawson Creek
F.St.James
Prince George
Quesnel
Bella Coola
Williams Lake
Kamloops
Revelstoke
Merrit
Port Alice
Tofino
VANCOUVER
Hope
Princeton
Cranbrook
Nelson
Trail
VICTORIA
U.S.A.
Mackenzie River
Peel River
Liard River
Fraser River
130°
120°
60°
55°
50°
Miles 0 50 100 150 Miles
LOCATION MAP
NORANDA EXPLORATION

1971-1972: Geological, geochemical and geophysical (magnetics) surveys were conducted by El Paso Mining and Milling Co. who discovered skarn zones along the sheared contact between ultramafics and volcanics on lower Kliyul Creek.

1973: Kliyul property optioned to Sumac Mines Ltd. who drilled 3 x-ray holes (no results available).

1973: San Jacinto Explorations Ltd. performed soil surveying near the gold/quartz veins on Goldway Peak.

1974: Sumac Mines drilled 6 'BQ' holes on the Kliyul property to test the West and East Zone copper soil anomalies and 5 'BQ' holes into the magnetic high. The latter drill holes intersected magnetite-copper-gold mineralization within a well fractured, sericite, chlorite, epidote, carbonate, quartz, pyrite skarn hosted by calcareous andesite tuffs and agglomerates and lesser dioritic units. A reserve of 2.5 million tons of 0.3% Cu and 0.03 opt Au was returned from this skarn zone.

1974-1975: BP Minerals Ltd. completed geological, geochemical and geophysical (mag/JEM) over the Bap mineral claims which overly intensely sheared, clay-sericite altered feldspar porphyry volcanics/intrusives and auriferous quartz veins.

1976: Maxmin (EM) surveying completed over the Bap claims by BP Minerals Ltd.

1981: Geological and geochemical surveying was completed by Dupont of Canada on the AS 1 claim near Goldway Creek.

1981: Kennco and Vital Pacific drilled 4 NQ holes (1978 feet) into the central skarn zone on the Kliyul property; all in a southerly direction.

1982: A trace element study was performed by BP Minerals on previously collected samples from the Bap claims.

1982: Further geochemistry was completed in the Goldway Peak area by Dermot Fahey and by Laramie Mining Corporation.

1983: A preparatory study to determine road access to Goldway Peak was undertaken by Laramie Mining Corporation.

1984: BP Minerals relogged and sampled portions of available core and conducted geological mapping and geochemical sampling on the Kliyul property.

1984: Laramie Mining Corporation conducted mapping, geophysics (VLF) and sampling/assaying of their Goldway Peak Property.

1984: Mapping and geochemistry was completed in the lower Kliyul Creek area by BP Resources Canada, Ltd.

1984: After obtaining the KC 1 & 2 mineral claims and conducting preliminary sampling and prospecting, Golden Rule Resources Ltd. completed further geological, geochemical and geophysical (magnetics) surveys.

1985: Geological and geochemical surveying in the Goldway Peak area by BP Resources, Canada, Ltd. delineated auriferous quartz veins and fractures within quartz-carbonate-pyrite altered zones.

1985: Further geological, geochemical and geophysical work (magnetics, VLF) was performed by Golden Rule Resources Ltd. on the KC 1 & 2 claims.

1985-1986: Prospecting, mapping, trenching and sampling of the auriferous quartz veins in the Goldway Peak area continued with Laramie as the operator.

1986: Soil surveying was performed by Lemming Mining Resources for BP Resources on the Bap claims.

Ritz Resources Ltd. for Goldnev Rule Resources Ltd. performed further geological, geochemical and geophysical (magnetics, VLF) work on the KC 1 & 2 claims.

1990: Placer Dome conducted linecutting, magnetometer and VLF-EM surveying, soil and rock sampling and prospecting on the Kliyul property in order to delineate magnetic anomalies similar to the known skarn zone, possible porphyry style mineralization and/or mineralized structures parallel to the large glacial valley.

1992: Noranda Exploration Company, Ltd. conducted 1:5,000 geological mapping on the Kliyul property, concentrating on alteration assemblages as well as rock and minor sampling.

1993: Noranda completed a 6 hole, 560 meter reverse circulation drill programme on the Kliyul main skarn zone. Results were encouraging enough to pursue options on surrounding properties which host similar stratigraphy, intrusives and mineralization.

1.4 Claims

The claims which comprise the Joh property are listed below with corresponding owner, expiry dates, and tenure numbers.

CLAIM	TENURE NO.	UNITS	EXPIRY DATE	OWNER
JOH 1	242519	20	August 1, 1997	Hemlo Gold Mines
JOH 2	242520	20	August 1, 1997	Inc.
JOH 3	242521	20	August 1, 1996	" "
JOH 4	242522	20	August 1, 1997	" "
JOH 5	242523	20	August 1, 1996	" "
JOH 6	242524	20	August 1, 1996	" "
JOH 7	242525	20	July 31, 1997	" "
JOH 8	242526	20	July 31, 1996	" "
JOH 9	242527	20	July 31, 1997	" "
JOH 10	242528	20	July 31, 1998	" "
*JOH 11	242606	20	August 21, 1996	" "
*JOH 12	242607	20	August 21, 1996	" "
*JOH 13	242608	18	August 21,1996	" "

Only those claims with an asterisk are being filed for assessment. Please refer to the Statement of Exploration at the beginning of this report for further clarification of assessment and work performed.

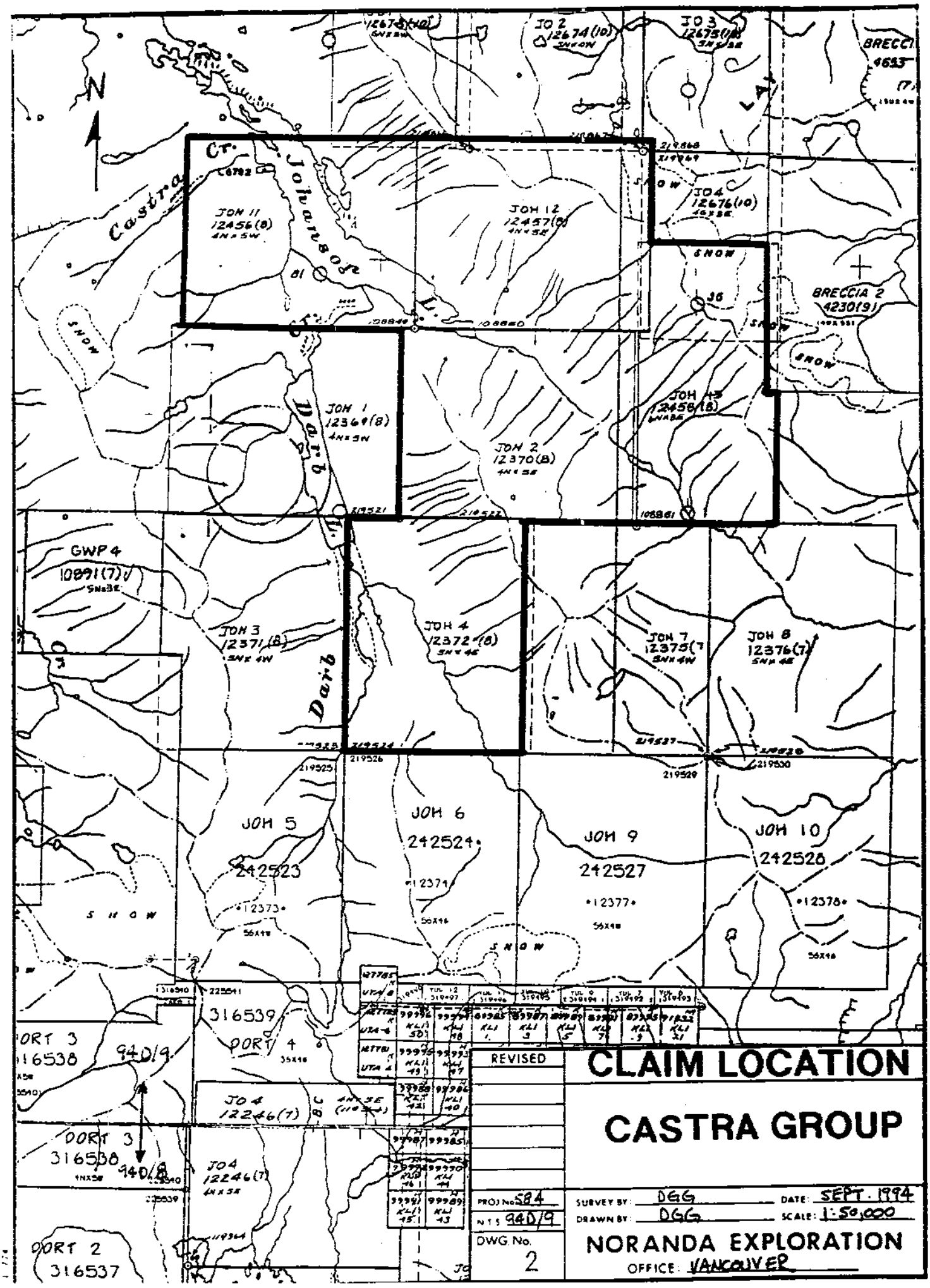
1.5 Economic Potential

The Joh project area is considered to be ideal for hosting high-grade Cu-Fe-Au skarn deposits and/or bulk-tonnage Au-Cu deposits for the following reasons.

1. Favourable stratigraphy (Takla Volcanics) and related intrusive complexes (monzonites - diorites) which form the northern part of the Hogem Batholith, a large hydrothermal cell associated with known porphyry Cu deposits (Mt. Milligan) are known to exist on the property.

2. Known Cu-Fe-Au skarn occurrences exist on the property within calcareous stratigraphic horizons which remain under-explored.

3. The positioning between the Cu rich porphyry systems to the south and Au-Cu rich porphyry and epithermal deposits to the north (Kemess/Cheni) may suggest a more Au rich zonation northward from the Hogem Batholith.



REVISED

CLAIM LOCATION

CASTRA GROUP

PROJ No. 584
NTS 940/9
DWG No. 2

SURVEY BY: DGG
DRAWN BY: DGG
DATE: SEPT. 1994
SCALE: 1:50,000

NORANDA EXPLORATION
OFFICE: VANCOUVER

1.6 Survey Control

The surveying of the flagged and blazed grid lines was conducted with the aid of a compass and metric hipchain and were tied into topographic features such as lakes and drainages. All lines were slope corrected. A total of 12.5 line kilometers of grid was established.

1.7 Sampling

Soil sampling was conducted along metrically chained lines with samples taken every 50 meters to the depth of 20-40 cm with the aid of a shovel or mattock. Soils were collected in brown kraft envelopes for drying, storage, and shipping purposes and sent to Noranda Exploration Laboratory at Unit #1, 7550 - 76th Street, Delta, B.C. Rock samples were collected as grabs whenever representative, altered and/or mineralized formations were encountered.

Please refer to Appendix I for the laboratory analytical techniques and Appendix II & III for sample assay values and descriptions where applicable.

A total of 194 soils and 46 rocks and their accompanying analytical charges are being applied for assessment.

2.0 GEOLOGY

2.1 Regional Geology (See Drawing #3)

The Joh property is situated within the Intermontane Belt which is comprised of Upper Triassic to Lower Jurassic island arc volcanics, volcaniclastics and sediments of the Takla Group which hosts such Cu-Au porphyry deposits as Mt. Milligan and Kemess. The dominantly volcanic package has been intruded by Jura-Cretaceous aged diorites, monzonites and syenites associated with the Hogem Batholith.

Prominent structural features in the area include NW, E-W, N-S and NNE-SSW trending fault systems.

2.2 Detailed Geology

Mapping of the Joh grid was conducted in an effort to delineate the source of anomalous copper and gold values in soils taken in the same area by Reliance Geological in 1992.

In the area investigated the rocks are well exposed in cliffs west of and along the NNW trending ridge crest. Smaller areas of outcrop also occur in the steep talus slopes below the ridge while no exposures were observed in the valley of Darb Lake to the west.

Forming rugged, inaccessible cliffs at the top of the ridge are augite porphyritic, feldspar phyric flows and flow breccias (Unit 2). Dark green, euhedral to subhedral augite phenocrysts range in size to 5 mm and comprise from 5% to 30% of the rock. The medium grey-green colored matrix consists of <1 mm euhedral feldspar crystals in a finer grained, dark green groundmass.

Stratigraphically below the augite porphyritic andesite is a sequence of interlayered andesite volcaniclastics and minor augite porphyritic, feldspar phyric flows all included within Unit 2. The volcaniclastics comprise 70% of this sequence and consist of crystal tuffs characterized by broken, <1 mm white feldspar crystals and fragmental tuffs containing up to 1 cm, subangular clasts of feldspar crystal tuff in a feldspar crystal matrix. These flows and tuffs are variably magnetic and locally contain up to 3% fracture filled pyrite.

North of Line 72800N the tuffaceous andesites contain layers of very fine grained volcaniclastics possibly ash tuffs and sediments (Unit 1). These commonly contain 7% fine grained, disseminated pyrite and as a result have a distinctive rusty, red gossanous weathering surface.

DARB LAKE

JOH PROPERTY

LAY CK

KLIYUL CLAIMS

KLIYUL CK.

SOUP CLAIMS

DORATELLE CK.

REGIONAL GEOLOGY

KLIYUL CREEK AREA

0 1 2 3 4 5 KMS

SCALE 1:50,000

LEGEND

INTRUSIVES

DIORITE, MONZONITE, SYENITE

ULTRAMAFIC ROCKS (PYROXENITE)

TAKLA VOLCANICS (UP. TRIASSIC)

ANDESITES

SEDIMENTS (ss, arg, lst.)

OCCURRENCES

To the north of Line 72600N another prominent gossan zone trending 320° and occurring within the tuffaceous andesites of Unit 2 is attributed to similar trending fractures as seen within the pyritized ash tuffs/sediments of Unit 1. This zone varies from 6 m to 20 m in width. Within and immediately adjacent to the fractures and shears (steep dips to the west) the country rock is silicified with propylitic or argillically altered sheared margins. Pyrite content ranges from 10-15% and is very fine grained and disseminated. Distal to the fracture sets the tuffs are weakly chloritic and contain 3-5% pyrite occurring as disseminations and fracture fillings. Mapping indicates that at least two subparallel fracture systems may be present in the area north of Line 72600N and are separated by approximately 100 meters.

The diorite, Unit 3, occurs throughout the mapped area with the exception of the extreme north end of the grid. In the southeast portion of the grid the diorite is exposed along the ridge crest and extends southwestward without interruption to the underlying granodiorites (Unit 4). In the central and northwest areas of the grid the dioritic body appears contained within the andesites of Unit 2 suggesting a sill-like body.

In general the diorite is grey-green in color, fine grained, equigranular and variably weakly magnetic. Minerals identified in hand samples are feldspars and hornblende. Locally feldspar and/or hornblende phenocrysts, are present creating a porphyritic texture. (A 'gabbroidal' texture is also evidenced along the contacts between the diorite and the andesite). The mafic minerals of the diorite have been weakly chloritized and epidote and/or carbonate may occur along fracture planes. More rarely the felsic minerals exhibit pervasive epidote alteration turning the entire rock a pistachio green color. Within the diorite unit are localized areas of more mafic-rich (melanocratic) and more felsic-rich (leucocratic) phases suggesting a magmatic segregation or more than one intrusive event. Quartz-feldspar porphyry dykes are also seen (not mapped) cutting the diorite unit.

Observed along the western ends of the grid lines are exposures of granodiorite (Unit 4) which weather a distinctive light grey-white color and exhibit a massive rounded weathered surface. This intrusive is medium grained and equigranular. Minerals identified are quartz, plagioclase and potassium feldspars, hornblende and biotite. Locally the contact between the granodiorite and diorite appears to be a zone of hybridization containing quartz monzonite with xenoliths of melanocratic diorite to hornblende porphyritic granodiorite. These areas are also cut by pink, aplitic and grey quartz-feldspar porphyry dykes, the latter of which contains rare quartz-eyes and 7-10% white feldspar phenocrysts in a fine grained, grey coloured granodioritic matrix.

Rock sampling on the Joh grid was mainly focused on the rusty weathering, gossanous structural zones in the northern portions of the grid where higher gold in soil values had been previously reported. No anomalous gold or copper values were returned from the grab and chip samples taken in this zone.

Copper mineralization observed on the grid was restricted to malachite stained fracture surfaces and in quartz veins which cut both the andesite and dioritic units.

No obvious alteration zonation was observed in the gridded area that may have indicated the presence of large scale mineralization associated with a porphyry and/or related skarn system.

3.0 SOIL GEOCHEMISTRY (See Drawings #6 and #7)

The soil geochemical survey completed on the Joh grid reveals a northwest trend, semi-coincident copper-gold anomaly which extends from Line 72800N through 71200N and ranges from 100 to 350 meters in width. The copper plan map has been contoured at 500 and 1000 ppm and the gold values have been contoured at 50 and 100 ppb contour intervals. These anomalies confirm those found by Reliance Geological during their programme in 1992. It is apparent that both the copper and gold values in soils overlie both the main northwest trending dioritic body and the gossanous fracture sets evident in the north end of the grid.

4.0 CONCLUSIONS

Although a large 1.6 km x 100-350 m coincident copper-gold soil anomaly has been detected overlying an area of dioritic intrusions and related structural deformation, rock sampling and geological mapping have not confirmed the existence of continuous surface mineralization or alteration expected with a large scale porphyry or skarn related system. Best rock sample values are from small discontinuous vein and fracture related mineralization and the soil geochemistry may only be a function of mechanical enrichment and downslope dispersion from these structurally controlled, mineralized systems. No further work is recommended on the grid area described in this report.

REFERENCES

1. Assessment Report #675: Geology of the Soup Claims, K.C. McTaggart, 1965.

2. Assessment Report #5562: Mineralogical Study of Soup Claims, A.J. Sinclair, 1975.

3. Assessment Report #5985: Ground Magnetics, Soup Claims, A.J. Sinclair, 1976.

4. Assessment Report #6410: Geochemical Survey, Soup Claims, B.P. Minerals, 1977.

5. Assessment Report #7033: Lithogeochemistry, Soup Claims, A.J. Sinclair, 1978.

6. Assessment Report #9485: Geochemistry, Soup Claims, Vital Resources, 1981.

7. Assessment Report #10,743: Geochem, Geophysics, Geology, Soup Claims, Noranda Exploration, 1982.

8. Assessment Report #13,315: Geology, Geochem, Soup Claims, B.P. Minerals, 1984.

9. Assessment Report #15,201: Magnetometer, Rock Sampling, Soup Claims, C.M. Rebagliati, 1986.

10. Summary Report on the Soup Claims, Rebagliati Geological Consulting Ltd. for Athlone Resources Ltd., 1988.

11. Summary Report on the Soup Claims (Drilling), Rebagliati Geological Consulting Ltd. for Athlone Resources Ltd., 1989.

12. Exploration Report on the Soup Property, Teck Explorations Ltd., 1991.

13. Assessment Report #2818: Magnetometer Survey on the Kli Claims, Kennco, 1970.

14. Assessment Report #3312: Soil and Silt Survey, Kli Claims, Kennco, 1971.

15. Assessment Report #3313: Geophysical Survey, Kli Claims, Kennco, 1971.

16. Compilation Report on the Kliyul Property, R.W. Stevenson, 1973.

17. Assessment Report #5211: Drilling Report, Kli Claims, Sumac Mines Ltd., 1974.

18. Report on the Diamond Drilling on Kli Claims, Koji Hashimoto, 1975.

19. Assessment Report #9464: Drilling on the Klisum Group, Kennco & Vital Resources, 1981.

20. Assessment Report #13,258: Geology, Geochem on the Kli Claims, B.P. Minerals, 1984.

21. Geochemical, Geophysical and Prospecting Report on the KLI Claims, S. Price, G. Linden, R. Cannon, P. Eng., G. Ditson for Placer Dome, November, 1990.

22. Assessment Report #15,313: Geological Report on Mapping, Sampling & Bulk Sampling on the Gold Group Claims, Laramie Mining Corporation, Gerhard von Rosen, P. Eng., November, 1986.

23. Assessment Report #13,697: Geological and Geochemical Report on the Goldway 1-8 Claims of B.P. Resources Canada Ltd., R.E. Meyers and H.Q. Smit, March 1985.

24. Geologic Setting and Sampling of Vein Systems on the Solo Group Mineral Claims for Jetta Resources Ltd., by T.A. Richards, June, 1991.

25. Assessment Report #10,809: Geochemical Report on the Good, Prospects, Much, Pro, Fit and Dar Mineral Claims, G.E.A. von Rosen, P.Eng., 1982.

26. Assessment Report #15,538: Geological, Geochemical and Geophysical Report on the KC 1 & 2 Claims, Peter A. Christopher, Ph.D., P.Eng., October, 1986.

27. Assessment Report #14,416: Geological, Geophysical & Geochemical Report on the KC 1 & 2 Claims, Donald B. Cross, 1985.

28. Assessment Report #15,182: Soil Geochemistry on the Bap 10, 14, 18 Mineral Claims, C.M. Rebagliati, P.Eng., 1986.

29. Assessment Report #13,460: Geological, Geochemical Report on the Goldway 9 Claim Group, D.R. Heberlein, 1984.

APPENDIX I

LABORATORY ANALYTICAL TECHNIQUES

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver.

Preparation of Samples:

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for geochemical analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples * from constant volume), are analysed in its entirety, when it is to be determined for gold without further sample preparation.

Analysis of Samples:

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.4 g and chemical quantities are doubled relative to the above noted method for digestion.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn can be determined directly from the digest (dissolution) with a conventional atomic absorption spectrometric procedure. A Varian-Techtron, Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method:

Antimony - Sb: 0.2 g sample is attacked with 3.3 ml of 6% tartaric acid, 1.5 ml conc. hydrochloric acid and 0.5 ml of conc. nitric acid, then heated in a water bath for 3 hours at 95°C. Sb is determined directly from the dissolution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.3 g sample is digested with 1.5 ml of perchloric 70% and 0.5 ml of conc. nitric acid. A Varian AA-475 equipped with an As-EDL is used to measure arsenic content in the digest.

Barium - Ba: 0.1 g sample digested overnight with conc. perchloric, nitric and hydrofluoric acid; Potassium chloride added to prevent ionization. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest with an AA-475 complete with EDL.

Gold - Au: 10.0 g sample is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with MIBK from the aqueous solution. AA is used to determine Au.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with the use of a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot from a perchloric-nitric decomposition, usually from the multi-element digestion, is buffered. The aqueous solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

N.B.: If additional elemental determinations are required on panned samples, state this at the time of sample submission. Requests after gold determinations would be futile.

LOWEST VALUES REPORTED IN PPM:

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

APPENDIX II

ROCK GEOCHEMICAL DESCRIPTIONS/ASSAYS

copied to Ba

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: JOH – 45584 | Geol.: G.G. | Date received: JULY 07 | LAB CODE: 9407–009

Material: 48 Rx | Sheet: 1 of 2 | Date completed: JULY 13

Remarks: * Sample screened @ –35 MESH (0.5 mm)

¤ Organic, Δ Humus, S Sulfide

Au – 10.0 g sample digested with aqua–regia and determined by A.A. (D.L. 5 PPB)

ICP – 0.2 g sample digested with 3 ml $HClO_4/HNO_3$ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
78	LE–02	5	0.2	2.95	2	192	0.2	5	2.45	0.2	61	10	19	47	3.59	0.50	14	6	0.43	193	2	0.07	5	0.10	2	210	0.20	95	2
79	3	5	0.2	3.68	7	213	0.3	8	7.29	0.7	70	29	189	185	4.87	1.54	13	11	3.37	768	4	0.06	54	0.06	2	124	0.07	163	27
80	5	5	0.2	3.86	4	85	0.2	6	3.98	0.2	61	26	25	143	5.75	0.35	15	9	1.79	715	3	0.18	19	0.09	2	129	0.41	210	29
81	6	5	0.2	3.50	6	34	0.3	5	2.69	0.5	69	19	12	244	4.56	0.38	14	9	1.03	347	2	0.09	5	0.12	2	137	0.36	149	22
82	LE–18	810	4.8	4.23	10	150	0.3	5	2.94	0.5	83	33	31	8756	4.54	0.73	22	16	1.99	771	1	0.10	40	0.15	2	291	0.54	184	44
83	LE–29	5	0.2	4.14	2	100	0.3	6	3.16	0.6	69	19	18	146	5.94	0.39	17	10	1.60	558	1	0.12	16	0.09	2	139	0.46	236	35
84	30	5	0.2	5.84	3	60	0.3	7	3.98	0.2	74	26	10	419	5.70	0.32	14	14	1.05	582	1	0.06	13	0.13	2	238	0.42	161	27
85	31	5	0.2	3.78	3	56	0.2	5	2.72	0.2	67	15	18	161	6.24	0.36	16	12	1.66	467	1	0.12	14	0.10	2	125	0.47	224	28
86	32	5	0.2	4.33	12	30	0.3	6	2.25	0.3	67	31	6	283	5.24	0.31	17	16	1.41	479	1	0.05	8	0.13	2	139	0.47	194	29
87	LE–33	5	0.2	3.88	10	40	0.2	8	2.88	0.2	71	18	13	192	5.58	0.38	17	9	1.23	412	1	0.09	6	0.13	2	163	0.49	177	23
88	LE–34	5	0.2	3.60	9	79	0.2	5	2.31	0.2	60	13	17	194	5.88	0.31	13	8	1.16	421	1	0.11	10	0.10	2	101	0.42	171	24
89	50	5	0.2	3.58	10	159	0.2	5	3.35	0.9	68	22	58	143	6.06	0.39	15	8	2.33	727	1	0.30	31	0.10	2	117	0.40	210	35
90	51	5	0.2	4.68	9	181	0.2	5	4.10	0.6	72	21	41	193	6.36	0.46	17	9	2.21	775	1	0.40	28	0.12	2	190	0.42	228	37
91	52	5	0.2	4.27	5	198	0.3	5	3.87	0.2	70	25	16	457	6.35	0.48	15	8	0.80	305	6	0.10	8	0.16	2	325	0.22	164	21
92	LE–54	5	0.2	4.26	4	75	0.3	5	4.60	0.4	67	21	123	394	7.56	0.25	13	6	1.01	510	5	0.20	53	0.08	2	198	0.23	139	30
93	LE–55	5	0.2	4.47	9	102	0.3	5	3.86	1.0	64	18	25	158	5.62	0.56	13	10	1.46	560	10	0.12	16	0.08	2	215	0.40	224	32
94	56	5	0.2	4.40	6	96	0.2	5	4.46	0.2	68	17	21	135	5.78	0.37	14	9	1.26	586	1	0.11	13	0.09	2	241	0.41	226	34
95	57	5	0.2	4.41	3	121	0.2	5	3.83	0.3	63	19	28	177	5.67	0.53	13	8	1.42	548	2	0.16	18	0.08	2	182	0.38	215	34
96	LE–58	5	0.2	4.72	8	137	0.2	5	3.69	0.8	64	18	29	216	5.58	0.60	14	10	1.69	577	2	0.16	20	0.08	4	167	0.40	219	42
97	GG–41	5	0.2	3.71	11	111	0.2	6	3.78	1.0	66	20	54	397	4.80	0.55	14	11	1.81	639	1	0.19	26	0.09	6	169	0.33	160	41
98	GG–42	5	0.4	3.96	7	23	0.2	7	4.10	0.2	69	14	25	49	5.46	0.21	13	9	1.74	603	1	0.12	14	0.09	2	241	0.44	214	36
101	43	60	0.2	3.03	53	44	0.4	5	1.27	0.6	44	90	50	353	9.46	0.24	12	17	2.11	2053	20	0.06	84	0.07	2	53	0.26	160	54
102	44	5	0.2	5.25	10	63	0.4	5	5.47	0.7	79	28	43	64	6.16	0.19	16	17	2.43	922	3	0.07	39	0.10	2	377	0.46	254	68
103	GG–45	20	0.2	3.04	15	116	0.3	5	3.68	1.1	66	33	21	775	6.60	0.38	15	11	2.51	926	1	0.33	17	0.11	2	71	0.58	237	57
104	KP–20	5	0.2	4.15	11	227	0.3	5	3.38	0.2	76	6	16	72	3.93	0.59	17	9	0.74	415	2	0.11	5	0.13	2	327	0.37	149	29
105	KP–26	5	0.2	4.15	6	148	0.2	5	2.91	0.5	73	8	15	300	4.21	0.44	16	9	0.91	404	2	0.08	5	0.14	2	229	0.32	159	28
106	28	5	0.2	4.82	9	127	0.2	5	3.86	0.5	67	14	18	300	6.28	0.59	14	12	1.47	603	3	0.11	13	0.09	2	273	0.36	223	36
107	30	5	0.2	4.78	13	104	0.2	5	4.34	0.2	67	15	22	177	5.75	0.58	12	9	1.31	611	2	0.13	15	0.09	2	240	0.39	226	32
108	33	5	0.2	3.08	11	112	0.2	6	2.98	0.7	62	15	26	77	5.42	0.35	16	9	1.70	642	5	0.19	16	0.09	2	143	0.47	198	37
109	KP–34	5	0.2	3.34	15	121	0.2	5	3.20	1.1	63	24	34	212	5.55	0.44	14	9	1.57	664	3	0.20	23	0.09	2	126	0.50	201	38
110	KP–35	5	0.2	4.22	13	140	0.2	5	3.69	0.3	63	18	25	161	5.93	0.42	15	11	1.44	535	2	0.14	12	0.11	2	257	0.42	200	34
111	KP–45	5	0.2	7.45	12	1475	0.4	8	1.02	0.9	43	10	12	43	5.20	2.69	13	15	2.24	1237	1	0.07	9	0.11	10	53	0.40	207	316
112	RL–01	5	0.2	2.27	13	23	0.2	5	3.15	0.2	66	40	58	754	5.46	0.07	13	5	0.31	308	3	0.07	83	0.12	3	145	0.28	131	19
113	2	80	0.2	0.69	2	107	0.2	5	0.05	0.2	8	11	189	40	8.22	0.26	3	4	0.11	123	13	0.07	1	0.06	2	12	0.02	86	15
114	RL–8	5	0.2	1.88	10	44	0.2	5	2.52	0.7	65	23	35	111	5.13	0.27	15	8	1.88	571	1	0.18	12	0.09	2	26	0.39	158	33

7/07 [illegible]

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
115	RL-11	5	0.4	1.42	10	32	0.2	5	2.23	0.6	61	19	53	275	4.57	0.12	15	6	0.60	431	2	0.13	16	0.09	2	56	0.30	144	23
116	13	5	0.2	2.21	8	23	0.2	6	2.78	0.3	65	13	50	102	3.35	0.09	14	5	0.51	425	3	0.11	19	0.09	2	105	0.23	91	24
117	14	5	0.2	3.29	11	44	0.2	5	3.74	0.5	69	19	38	149	4.43	0.17	14	6	0.86	600	2	0.15	12	0.10	2	125	0.32	144	27
118	15	5	0.2	2.64	13	63	0.2	6	3.02	0.5	69	24	81	198	3.59	0.20	18	6	0.53	421	5	0.13	29	0.08	3	90	0.24	126	30
119	RL-16	20	0.2	3.26	9	32	0.2	5	4.28	0.3	75	7	57	87	4.92	0.07	16	4	0.38	776	5	0.11	13	0.10	2	145	0.26	108	31
120	RL-17	5	0.2	3.33	10	42	0.2	5	3.99	0.3	74	10	32	130	4.16	0.18	14	6	0.42	570	4	0.08	7	0.13	2	146	0.27	101	25
121	18	5	0.2	3.32	2	35	0.4	6	4.54	0.5	83	11	42	68	3.79	0.10	19	6	0.19	620	5	0.08	13	0.12	2	259	0.22	101	22
122	19	5	0.2	2.54	5	33	0.3	5	3.30	0.4	74	13	49	144	4.00	0.08	16	5	0.25	643	3	0.11	23	0.11	2	132	0.24	90	29
123	20	5	0.2	2.34	7	11	0.3	5	3.26	0.2	75	8	63	129	4.25	0.04	24	4	0.12	650	4	0.07	12	0.11	3	114	0.21	66	32
124	RL-21	5	0.2	2.00	3	12	0.2	5	3.29	0.2	70	13	71	218	4.04	0.03	17	4	0.14	522	5	0.09	24	0.10	2	90	0.25	73	35
125	RL-22	5	0.2	3.14	2	17	0.3	5	6.92	0.4	85	11	86	118	2.63	0.04	15	5	0.07	674	5	0.05	30	0.11	2	45	0.22	60	52
126	23	5	0.2	2.41	2	42	0.2	5	3.18	0.2	66	7	43	113	4.14	0.07	16	3	0.16	482	3	0.08	12	0.09	2	118	0.23	86	25
127	RL-24	5	0.2	4.70	3	806	0.2	5	2.03	0.2	58	25	26	351	7.41	0.97	14	14	1.46	378	9	0.12	12	0.08	2	123	0.38	352	28

45.584

PROJECT # _____

LAB REPORT # _____

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/9

DATE June 29/94

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
RL0001	AND, Rusty W.S	2	GRAB	/								RL
RL0002	Diss.	1	GRAB	/								RL
RL0008	And, Aug Phenol	5	GRAB	/								RL
RL0011	AND, Grn	1	GRAB	/								RL
RL0013	AND, ASH TUFF, Md. Grey, Fg. Gossan	10	CHIP	1.5								RL
RL0014	AS ABOVE	7	CHIP	2								RL
RL0015	AS ABOVE	8	CHIP	2								RL
RL0016	AS ABOVE	10	CHIP	2								RL
RL0017	AS ABOVE	15	Chip	2								RL
RL0018	AS ABOVE	10	Chip	2								RL
RL0019	AS ABOVE	7	Chip	2								RL
RL0020	AND, RYL TUFF, DGRY/FG/GOSSAN	10	Chip	2								RL
RL0021	AS ABOVE	16	Chip	2								RL
RL0022	AS ABOVE	15	Chip	2								RL
RL0023	AND, ASH TUFF, FG, Md, Grey, GOSSAN	6	Chip	2								RL
RL0024	AS ABOVE	8	Chip	2								RL
~~RL0025~~												
~~RL0026~~												

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 45-581

LAB REPORT # _____

N.T.S. 94D/9

DATE June 29/94

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
KP0026	611941E, 6272181N Sheared white Diorite	tr	Py	GRAB								P.M.
~~RL 0026~~	~~611926, 6272601N~~ Rusty sheared ~~xcut~~	~~tr~~	~~Py~~	~~Chip~~	~~(2.0m)~~							R.L.

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 584

LAB REPORT # _____

N.T.S. 94O/9

DATE June 25/94

PROJECT Joh

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
KP0020	Hgy leucocratic diorite	TR Py/Mt	Grab									K.P
	weak propy (ltz alter'n											
	(chlor. epid)											
	Line 726000N/St 749200E											
KP0018	Line 726000N/St 746900E		Grab									K.P
	Feldspar xl rhyolite phyric											
	dk grey, Mg, limonite											
	along fractures.											
KP0030	Line 726000N/747750E	~5% Py	Grab									K.P
	(~80.mN) XTL tuff, dk grn	Tr Cpy?										
	f.g. weak propylitic											
	silic'n / alter'n weakly											
	Ca-Mg-Fe, epidote											
	Py as diss / stringers											
	and on surface coating											

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/9

PROJECT # 584

DATE June 25/94

LAB REPORT # ____

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
KP0033	Line 724000N/74845E (25mN) Dk grn aug. feld phyric fg mod-well propylitic alter'n strong chlor Py as diss	≤1% Py	Chip	1.5m								K.P.
KP0034	Line 724000N/74830E (25mN) Aug. feldspar phyric, fg mod propylitic, weak silicif alter'n, mod chlor weak epid	4-6% Py	Chip	1.5m								K.P.
KP0035	Line 724000N/74820E (25mN) Aug/feld phyric, fg mod propylitic, wk silica, mod chlor epid	5-6% Py	Chip	1.5m.								K.P.

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 584

LAB REPORT # _____

N.T.S. 94A/9

DATE June 24/94

PROJECT Job

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
												K.P.
KP0045	Line 7230 E/ Ridge station Qtz feldspar phyric W lyn, fg, weak propylitic (chlor, carb) py fine diss, limonite surface coating, epidote as small clots	≤ 1%	Grab									

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 584

N.T.S. 94D/9

LAB REPORT # _____

DATE _____

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)	Magnetite	Malach.						SAMPLED BY
LE0002	Fs xtl. tuff, dis Py	8% Py	Grab									LE
LE0003	Qz - carb shear zone dis/ff Py	<1% Py	Grab									LE
LE0005	Aug-Fs phyric andesite dis/ff Py	1% Py	Grab		2%							LE
LE0006	Aug-Fs phyric andesite, bleached, fracture zone, rusty weather. Sfc.	5% Py	Grab									LE
LE0018	Mc ff in Diorite, dis Py	Tr Py	Grab			4%						LE
LE0029	Aug-Fs phyric andesite, Mg, propylitic, argillic, silica altn	3% Py	Chip	1.5m	3%							GG
LE0030	strongly propylitized sheared contact zone with sericite	2% Py	Chip	0.75m								GG
LE0031	xtl tuff/di? propylitized, argillic altn with pyrite	6% Py	Chip	1.5m								GG
LE0032	xtl tuff, argillic altn, sericite on margins, sheared zone	5% Py	Chip	1m								LE
LE0033	xtl tuff, silicified, local argillic altn	10% Py	Chip	2m								LE
LE0034	xtl tuff, weak propylitic, hanging wall of LE0033	3% Py	Chip	2m								LE

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 95-584

LAB REPORT # _____

N.T.S. 94D/9

DATE June 28/94

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)	SAMPLED BY
LE0050	dk grey Di, rusty W.S., mod magnet	3 Py	Chip	2m	DC
LE0051	med grey Andesite tuff, wk magnet.	3 Py	Chip	2m	DC
LE0052	leucocratic Di, Py ranges 7%-15%	10 Py	Chip	2m	DC
LE0054	Andesitic xtlltf, wk silic, carb/chlor	2 Py	chip	1m	
	lntff, argillic altn in centre of trace				
	spine-forming				DC
LE0055	Andesitic xtlltf, wk ep	Tr Py	chip	2m	DC
LE0056	Andesitic xtltf, wk silic, wk ep	4 Py	chip	2m	LE
LE0057	Andesitic xtltf, wk chlor/ep, mafics	1 Py	chip	2m	
	to chlor				DC
LE0058	Andesitic xtltf, wk chlor/ep	1 Py	chip	2m	

Emailed Aug 25

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: JOH – 45584 **Geol.:** G.G. **Date received:** JUL. 22 **LAB CODE:** 9407–035

Material: 34 Rx **Sheet:** 1 of 1 **Date completed:** AUG. 05

Remarks: • Sample screened @ –35 MESH (0.5 mm)

■ Organic, Δ Humus, S Sulfide

Au – 10.0 g sample digested with aqua–regia and determined by A.A. (D.L. 5 PPB)

ICP – 0.2 g sample digested with 3 ml $HClO_4/HNO_3$ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
245	PM – 0102	70	0.2	2.68	4	65	0.2	5	2.19	0.6	61	14	8	1077	3.55	0.52	14	11	0.99	302	3	0.08	7	0.23	3	154	0.41	157	21
246	103	5	0.2	2.55	4	42	0.2	5	1.89	0.3	57	12	9	206	3.13	0.39	12	9	0.94	265	5	0.12	8	0.13	2	193	0.32	131	19
247	104	90	0.2	2.02	7	43	0.2	5	1.92	0.4	56	29	6	2290	4.16	0.24	10	8	0.51	296	5	0.06	5	0.09	3	139	0.24	93	19
248	105	70	0.2	3.40	4	47	0.2	5	3.45	0.7	63	31	8	1624	5.34	0.41	14	17	1.50	563	3	0.13	6	0.16	3	255	0.45	179	48
251	PM – 106	10	0.2	4.54	2	74	0.2	5	4.42	0.8	53	18	15	271	6.24	0.46	13	10	1.28	646	1	0.16	16	0.10	2	231	0.57	232	35
252	PM – 107	70	0.8	4.09	5	25	0.2	5	5.45	0.3	38	99	11	953	13.37	0.14	12	4	0.64	593	6	0.10	39	0.06	2	339	0.24	223	31
253	108	5	0.2	2.89	6	141	0.2	5	3.07	0.9	45	33	14	176	7.62	0.53	13	10	1.96	700	2	0.23	19	0.09	2	65	0.57	207	39
254	PM – 0109	60	0.2	3.40	14	29	0.2	5	4.43	0.8	45	179	15	2404	12.95	0.23	14	5	1.36	1099	4	0.20	33	0.07	2	102	0.25	159	54
255	RL – 0045	5	0.2	5.41	2	472	0.5	5	5.15	1.1	51	27	8	143	5.45	2.56	12	9	1.01	632	1	0.08	8	0.15	2	61	0.11	245	45
256	RL – 46	20	0.2	4.10	4	95	0.2	5	3.95	1.3	61	22	9	1945	5.21	0.73	15	13	1.19	631	2	0.14	6	0.18	2	262	0.50	223	44
257	RL – 47	5	0.2	4.27	6	400	0.2	5	3.57	1.0	60	21	13	292	6.41	0.68	15	11	1.53	478	4	0.21	10	0.15	2	185	0.50	201	37
258	48	5	0.2	2.56	7	68	0.2	5	3.04	0.3	60	34	18	485	5.38	0.27	13	9	1.26	419	3	0.18	18	0.10	2	132	0.62	178	26
259	49	30	0.2	3.99	2	73	0.2	5	3.77	0.4	48	90	9	333	8.70	0.42	11	8	1.04	634	8	0.10	10	0.06	2	114	0.39	182	41
260	50	5	0.2	3.32	7	99	0.2	5	3.41	0.3	46	35	16	335	7.19	0.60	14	10	1.88	761	2	0.24	17	0.11	2	88	0.64	228	41
261	RL – 52	40	0.2	3.37	2	42	0.2	5	3.38	0.7	46	16	7	393	4.17	0.47	12	9	0.86	400	5	0.12	6	0.14	2	257	0.39	172	29
262	RL – 53	50	0.2	3.38	7	89	0.2	5	3.27	0.6	47	23	15	411	5.04	0.50	11	10	1.50	553	3	0.18	17	0.10	2	134	0.54	181	34
263	54	30	0.2	3.72	2	72	0.2	5	3.76	0.6	44	18	12	399	5.03	0.46	11	10	1.38	479	1	0.14	13	0.09	2	179	0.54	192	31
264	55	60	0.2	3.88	2	100	0.2	5	3.78	0.4	44	19	14	617	5.31	0.57	11	10	1.56	579	1	0.23	14	0.09	2	159	0.56	200	36
265	56	5	0.2	3.75	2	118	0.2	5	3.89	0.6	52	18	11	225	4.86	0.44	12	10	1.13	496	3	0.18	13	0.10	2	180	0.52	179	27
266	RL – 57	10	0.2	4.24	2	109	0.2	5	4.54	0.8	52	18	12	197	5.48	0.50	12	9	1.34	624	3	0.21	13	0.11	2	178	0.58	204	32
267	RL – 58	10	0.2	3.35	2	60	0.2	5	3.41	0.6	50	27	17	491	6.19	0.52	14	11	1.96	601	10	0.23	18	0.10	2	115	0.56	204	39
268	59	50	0.2	3.10	7	77	0.2	5	2.84	0.4	47	26	17	1250	4.61	0.50	12	12	1.36	348	3	0.12	24	0.09	3	152	0.56	190	27
269	60	5	0.2	3.15	10	188	0.2	5	3.14	0.6	49	25	22	264	6.10	0.72	13	11	1.96	629	3	0.15	24	0.09	2	123	0.49	191	41
270	61	5	0.2	3.26	11	66	0.2	5	3.32	0.6	50	18	18	329	6.03	0.35	13	11	1.24	480	11	0.14	14	0.09	2	158	0.58	175	30
271	RL – 62	5	0.2	3.76	2	401	0.2	5	3.14	0.2	52	19	14	142	6.06	0.58	16	11	1.44	496	3	0.19	11	0.12	2	172	0.44	189	37
272	RL – 63	5	0.2	3.66	4	429	0.2	5	3.14	0.3	51	16	10	160	5.64	0.60	15	9	1.35	438	1	0.18	8	0.12	2	178	0.41	175	32
273	64	20	0.2	3.66	2	167	0.2	5	3.68	0.4	47	37	11	198	7.87	0.53	15	9	1.34	490	4	0.14	10	0.10	2	198	0.49	198	31
274	65	5	0.2	3.44	2	231	0.2	5	2.73	0.2	50	18	9	347	5.31	0.61	14	9	1.03	287	3	0.13	7	0.12	2	168	0.40	154	23
275	66	5	0.2	2.98	12	137	0.2	5	3.37	0.3	55	27	25	118	6.22	0.45	13	9	1.58	582	4	0.24	19	0.09	2	99	0.55	186	30
276	RL – 67	5	0.2	2.61	10	145	0.2	5	2.94	0.4	54	22	19	160	5.61	0.52	14	10	1.84	544	7	0.22	17	0.09	2	63	0.54	188	34
277	RL – 68	5	0.2	3.82	7	159	0.2	5	3.73	0.5	53	21	18	80	6.16	0.51	16	11	1.88	602	2	0.29	14	0.10	2	112	0.54	214	34
278	69	5	0.2	3.38	5	87	0.2	5	4.02	0.3	54	23	16	200	6.00	0.38	18	9	1.35	494	17	0.18	17	0.09	2	160	0.56	201	29
279	RL – 0070	5	0.2	2.65	7	49	0.2	5	2.48	0.4	46	22	17	213	6.91	0.33	13	8	1.45	650	4	0.14	15	0.08	2	46	0.58	172	42
280	SL – 0003	5	0.2	0.07	2	6	0.2	5	0.09	0.2	17	3	6	18	0.65	0.01	6	1	0.04	123	3	0.01	3	0.01	5	3	0.01	6	4

10/8 GA' GG

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 584

N.T.S. 94 D/9

LAB REPORT # _____

DATE July 16/91

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
PM0102	Diorite with tr. Cpy coated malachite on fracture faces	tr	Cpy	GRAB								PGM
PM0103	Diorite, sheared and rusty in carb VNs following FW sheared with mod-strong propy alt. on either side	1	Py	GRAB								P.G.M.
PM0104	Diorite, Qtz VN within the dior. with malachite stain and tr. Py/Cpy. Cpy occurs in pinched chl. stringers	tr	Py, Cpy	GRAB								P.G.M.
PM0105	Diorite, sample of malachite stained fracture set within unit. Moderate Propy alt.	1%	Py, Cpy	GRAB								P.G.M.
PM0106	Diorite, Mod-strong propy alt. to Py Cpy bearing qtz EF. VN	2	Py, Cpy	GRAB								P.G.M.

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 584

LAB REPORT # _____

N.T.S. 94D/9

DATE July 16/94

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
PM0107	Sheared Andesite flow Py disc and Concentrated in Veinlets	10	Py	GRAB								P.G.M.
PM0108	Sheared Andesite with Py Concen. in VNS, Weakly polypyritically altered	2	Py	GRAB								P.G.M
PM0109	Sheared Andesite with layered Py and stringer magnetite, Moderately propylitically alt.	15	Py	GRAB								P.G.M.

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # _____

LAB REPORT # _____

N.T.S. 94D/9

DATE July 16 /94

PROJECT JOY

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
RL 0045	STRONG CARB ALTERATION, with minor Qtz veins, Py diss and along fractures; Fine grained Red Brown in Colour	3 Py	GRAB	—								RL
RL 0046	Diorite, Dark grey, Py and Cpy both diss and associated with veins of Quartz, Apatite and malachite; weakly potassic	1 Py	Grab	—								RL
		1 Cpy										
	MOD PROPYLITIC ALTERATION WITH CHLOR being pervasive, EPI along fractures											
RL 0047	Diorite, Med. grained, Drk grey; Py is diss. and along fractures, MOD Propylitic alteration, Chlor and epi pervasive.	3 Py	Grab	—								RL
RL 0048	ANDESITE TUFF, Dark green, Fine grained MOD PROPYLITIC, Chlor pervasive, Epi. on fractures, weak carbonated alteration, Py is diss	2 Py	Grab	—								RL
RL 0049	ANDESITE TUFF, Dark green, Fine grained, MOD PROPYLITIC ALTERATION, MOD CHLOR alteration which is pervasive, Py IS diss and along fracs, a massive glob of pyrite the middle	15 Py	Grab	—								RL
RL0050	ANDESITE TUFF, DARK GREEN, FINE GRAINED, WK Propylitic alteration, Chlor is pervasive, epi along fracs, Py finely diss and along fracs	2 Py	Grab	—								RL

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 584

LAB REPORT # _____

N.T.S. 94D/9

DATE July 17/94

PROJECT JOH

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)	CPY %							SAMPLED BY
RL0052	Diorite, Med. grey in color, weak propylitic alteration, weak carbonate	2 Py	CHIP	2.5	1							RL
	alteration, WK chlor and ep. alteration											
RL0053	ANDESITIC CRYSTAL TUFF, DRK GREEN FINE GRAIN, Chlor perv (weak) ep	1	CHIP	2								RL
	perv and weak, weakly magnetic weak to mod. Propylitic alteration											
54	same as 53/	2	CHIP	2								RL
55	same as 53/	2	"	2								RL
56	same as 53/	2	"	2.5								RL
57	same as 53/	2	"	2.5								RL
58	same as 53/ Strongly magnetic, epidote staining	2	"	2	Tr							RL
59	same as 53/ weak Carb. alteration, weakly strongly magnetic, staining	2	"	1.5								RL
60	ANDESITIC CRYSTAL TUFF, weak propylitic Alteration, mod Chlor alteration	3	"	1.5								RL
	with weak ep alteration Strongly magnetic											
61	ANDESITIC FLOW, Dark green WK propylitic alteration, weak Chlor and epidote	7	chip	1.5								RL
	alteration, weakly magnetic,											
62	INTRUSIVE (DIORITE) lt grey, med. grained weak propylitic alteration,	5	chip	2								RL
	Chlor alteration weak, epidote alteration to moderate, weakly magnetic											
63	Same as 62	5	chip	2								RL
64	Same as 61 / mod. propylitic alt^{n}	12	Chip	2								RL
~~65~~	~~Same as 61 / mod propylitic alt^{n}~~											
	Strongly magnetic,											

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 584

LAB REPORT # _____

N.T.S. 104D/9

DATE July 17/94

PROJECT Jolly

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPH.	TYPE	WIDTH (m)								SAMPLED BY
RL0065	DACITE, lt grey, med grained, weakly propylitic, weak chlorite and epidote alteration, weakly magnetic	5 Py	CHIP	3								RL
RL0066	ANDESITIC FLOW, DARK GREEN, FINE GRAINED, weak TO moderate propylitic alteration, weak chlorite and epidote alteration moderately magnetic, epi PERV and along veins	3 Py	Chip	2								RL
RL0067	Same as 66 / weakly magnetic	4 Py	Chip	2								RL
68	Same as 66 /	3 Py	Chip	2								RL
69	Same as 66 /	5 Py	Chip	2								RL
RL0070	ANDESITIC FLOW, Dark Green, fine grained, mod propylitic alteration mod chlorite alteration, wk epidote alteration	3 Py	Chip	1.5								RL

APPENDIX III

SOIL GEOCHEMICAL ASSAYS

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: JOLI – 45584 **Geol.:** G.G. **Date received:** JUNE 28 **LAB CODE:** 9406–025
Material: 203 Soils **Sheet:** 1 of 5 **Date completed:** JULY 05
Remarks: • Sample screened @ –35 MESH (0.5 mm)
¤ Organic, Δ Humus, S Sulfide

Au – 10.0 g sample digested with aqua–regia and determined by A.A. (D.L. 5 PPB)

ICP – 0.2 g sample digested with 3 ml $HClO_4/HNO_3$ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
3	70400N–75150E	50	0.2	5.61	11	370	0.4	5	2.38	0.2	38	21	7	225	5.65	0.93	12	14	1.54	1245	2	0.05	10	0.17	5	194	0.26	176	73
4	75100	30	0.2	5.02	8	158	0.4	5	2.06	0.5	39	26	26	330	5.65	0.59	12	20	2.50	1183	1	0.06	25	0.15	3	176	0.42	193	82
5	75050	10	0.2	3.91	11	125	0.3	5	2.33	0.2	39	24	22	367	5.68	0.44	12	15	1.90	976	1	0.07	17	0.18	4	179	0.46	190	64
6	75000	5	0.2	4.45	11	162	0.4	5	2.36	0.2	43	21	12	191	5.35	0.50	12	15	1.59	1106	1	0.07	11	0.18	4	196	0.36	182	68
7	70400N–74950E •	20	0.2	3.88	9	143	0.3	5	2.55	0.3	39	18	12	108	5.00	0.48	12	13	1.30	831	1	0.05	10	0.12	10	253	0.32	176	54
8	70400N–74900E •	40	0.2	3.78	13	166	0.3	5	2.08	0.3	40	19	9	118	4.79	0.51	11	13	1.40	902	1	0.06	11	0.13	5	226	0.29	165	57
9	74850	40	0.2	5.12	13	348	0.4	5	1.00	0.2	43	22	12	155	5.61	1.31	13	15	1.13	1287	1	0.06	17	0.17	7	83	0.16	189	57
10	74800	10	0.2	6.12	15	676	0.5	5	0.76	0.2	42	17	8	104	4.75	1.88	15	12	0.90	1229	1	0.05	13	0.14	7	49	0.10	153	48
11	74750 ¤	5	0.2	3.53	2	471	0.3	5	0.67	0.2	32	11	12	63	2.85	0.69	10	6	0.48	2634	1	0.04	7	0.26	2	67	0.16	106	45
12	70400N–74700E ¤	10	0.2	3.63	2	462	0.3	5	1.02	0.2	37	13	13	97	3.69	0.75	10	7	0.67	1606	1	0.04	8	0.19	2	98	0.20	131	46
13	70400N–74650E	10	0.2	4.47	3	308	0.4	5	1.50	0.2	40	16	11	162	4.49	0.85	11	13	1.30	947	1	0.05	13	0.16	2	144	0.25	154	55
14	74600	5	0.2	3.96	8	398	0.3	5	1.19	0.2	38	14	11	163	3.50	0.69	10	10	0.94	1148	1	0.04	10	0.15	4	99	0.18	116	51
15	74550	5	0.2	3.58	2	209	0.2	5	0.80	0.2	34	7	11	43	2.87	0.58	9	4	0.47	348	1	0.05	6	0.13	2	93	0.21	130	38
16	74500 ¤•	5	0.2	0.69	2	256	0.2	5	0.54	0.2	23	3	5	22	0.70	0.27	3	2	0.13	671	1	0.02	3	0.15	4	37	0.05	26	48
17	70400N–74450E ¤•	5	0.2	1.10	2	159	0.2	5	0.55	0.2	28	3	9	21	0.79	0.23	5	2	0.15	356	1	0.06	3	0.17	4	49	0.09	30	34
18	70400N–74400E	5	0.2	1.58	4	107	0.2	5	0.54	0.2	38	2	9	10	1.00	0.26	8	3	0.14	128	1	0.03	3	0.08	4	77	0.19	49	18
19	74350 ¤•	5	0.2	0.77	4	955	0.2	5	2.04	0.2	36	3	10	17	0.59	0.14	6	3	0.12	122	3	0.03	4	0.09	4	212	0.06	27	23
20	74300	5	0.2	1.47	2	114	0.2	5	0.55	0.2	48	2	15	9	1.60	0.21	12	3	0.11	129	1	0.04	2	0.03	3	73	0.32	67	18
21	74250 ¤•	5	0.2	0.52	2	422	0.2	5	0.51	0.2	23	2	8	10	0.47	0.15	4	1	0.06	70	4	0.03	3	0.11	2	64	0.06	17	27
22	70400N–74200E ¤•	5	0.2	1.04	2	1652	0.4	5	2.45	0.8	50	8	8	24	0.76	0.14	61	3	0.13	2922	9	0.03	6	0.13	3	289	0.03	29	37
23	70600N–75050E •	110	0.2	4.77	2	103	0.4	5	3.23	0.2	36	16	8	122	4.82	0.49	11	12	1.27	882	1	0.04	8	0.16	2	313	0.32	158	46
24	75000	40	0.2	5.26	2	187	0.5	5	2.72	0.2	44	21	16	311	5.35	0.62	13	15	1.63	1030	1	0.06	11	0.19	3	236	0.34	181	56
25	74950	50	0.2	4.72	4	134	0.4	5	2.85	0.3	38	21	19	239	5.59	0.51	13	14	1.61	954	1	0.07	13	0.18	2	243	0.39	188	56
26	74900	50	0.2	4.54	3	164	0.4	5	2.26	0.4	40	20	29	228	4.80	0.50	13	14	1.62	892	1	0.07	33	0.17	2	197	0.35	161	59
27	70600N–74850E	40	0.2	5.95	3	198	0.6	5	2.23	0.4	36	22	17	318	4.73	0.56	13	16	1.73	1363	1	0.06	21	0.19	4	191	0.30	152	67
28	70600N–74800E	30	0.2	5.04	4	163	0.5	5	2.09	0.4	36	20	20	234	4.59	0.49	12	14	1.52	994	1	0.06	19	0.20	3	187	0.31	153	58
29	74750	10	0.2	4.89	4	115	0.4	5	2.40	0.3	35	19	23	289	4.45	0.35	11	14	1.57	891	1	0.08	17	0.17	2	176	0.32	153	55
30	74700	30	0.2	4.68	7	158	0.4	5	2.25	0.4	34	18	18	244	4.15	0.43	12	14	1.47	959	1	0.06	15	0.16	4	175	0.26	141	63
31	74650	20	0.2	4.20	2	202	0.4	5	1.74	0.2	41	16	24	132	4.75	0.40	11	12	1.21	916	1	0.07	12	0.14	2	175	0.35	170	53
32	70600N–74600E	20	0.2	4.52	2	387	0.5	5	1.84	0.2	40	16	15	223	4.10	0.53	12	12	1.27	925	1	0.06	13	0.16	2	154	0.25	136	56
33	70600N–74550E ¤•	5	0.2	1.22	3	110	0.2	5	1.12	0.4	37	7	12	58	1.27	0.22	6	4	0.31	820	1	0.03	6	0.16	9	71	0.09	44	80
34	74500	5	0.2	3.92	2	459	0.5	5	0.70	0.2	56	10	12	40	3.67	0.81	19	11	0.94	772	1	0.05	10	0.18	10	74	0.19	104	75
35	74450	5	0.2	2.23	2	136	0.2	5	0.82	0.2	48	5	15	22	2.46	0.37	11	5	0.41	395	1	0.05	5	0.11	5	91	0.28	87	37
36	74350	5	0.2	1.75	2	119	0.2	5	0.60	0.2	42	2	13	10	0.73	0.25	10	3	0.13	128	1	0.03	2	0.08	8	90	0.29	53	16
37	70600N–74300E	5	0.2	2.33	2	162	0.2	5	0.70	0.2	44	2	13	12	1.21	0.33	12	4	0.21	158	1	0.05	3	0.08	7	104	0.28	66	23

07/07 Vane

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
38	70600N-74250E	5	0.2	2.62	3	174	0.2	5	0.80	0.2	39	6	17	38	2.70	0.31	12	9	0.57	319	3	0.07	7	0.09	6	92	0.27	101	43
39	70600N-74200E	5	0.2	1.35	2	101	0.2	5	0.32	0.2	32	1	6	5	0.57	0.21	9	3	0.08	72	1	0.03	2	0.02	8	56	0.29	40	10
40	70800N-75100E	5	0.2	3.88	4	118	0.3	5	1.89	0.5	39	21	39	172	5.47	0.37	13	14	1.47	1168	1	0.07	21	0.13	2	149	0.36	197	83
41	75050	5	0.2	4.23	2	212	0.4	5	1.39	0.2	45	21	20	212	5.21	0.49	13	16	1.64	992	1	0.06	14	0.21	2	120	0.38	180	73
42	70800N-75000E	80	0.2	5.42	2	77	0.5	5	3.49	0.2	41	22	10	201	5.68	0.39	13	13	1.74	1039	1	0.05	10	0.19	2	309	0.46	205	57
43	70800N-74950E •	5	0.2	4.20	3	76	0.4	5	2.97	0.2	39	17	9	105	4.37	0.44	11	10	1.25	691	1	0.05	10	0.11	2	285	0.24	151	38
44	74900 •	10	0.2	4.23	2	104	0.3	5	2.67	0.2	41	20	11	113	4.68	0.51	11	11	1.32	649	1	0.06	14	0.12	29	270	0.32	160	54
45	74850	180	0.2	4.57	2	192	0.4	5	1.96	0.2	49	17	14	222	4.68	0.44	14	13	1.19	910	1	0.07	12	0.19	2	245	0.35	160	59
46	74750	10	0.2	4.19	4	189	0.3	5	1.40	0.2	44	15	14	244	4.07	0.48	11	12	1.11	567	1	0.05	14	0.18	3	149	0.28	140	54
47	70800N-74700E	20	0.4	6.35	2	211	0.7	5	1.77	0.2	48	21	18	293	4.54	0.52	15	16	1.53	973	1	0.07	27	0.19	11	166	0.23	145	77
48	70800N-74650E	10	0.2	4.82	2	155	0.4	5	1.97	0.2	42	18	14	168	4.15	0.33	11	11	1.14	929	1	0.07	14	0.17	2	142	0.26	144	60
51	74600	5	0.2	5.98	2	108	0.3	5	3.84	0.2	27	26	14	190	5.44	0.35	10	14	1.94	1069	1	0.12	18	0.12	2	178	0.38	193	72
52	74550	5	0.2	4.63	2	165	0.3	5	1.52	0.2	43	14	14	199	4.81	0.51	13	13	1.15	574	1	0.07	11	0.14	2	127	0.33	162	56
53	74500	5	0.2	4.19	2	193	0.3	5	1.74	0.2	44	16	14	222	4.49	0.51	14	11	1.17	711	1	0.08	12	0.14	2	138	0.33	159	57
54	70800N-74400E D*	5	0.2	2.84	2	152	0.2	5	1.66	0.2	36	11	15	182	2.86	0.23	8	6	0.79	496	1	0.07	10	0.17	4	111	0.24	99	53
55	70800N-74350E	5	0.2	2.31	2	91	0.2	5	1.36	0.2	38	10	11	73	2.75	0.26	9	4	0.77	305	1	0.09	7	0.17	2	79	0.35	111	30
56	74300	5	0.2	2.68	2	182	0.2	5	0.80	0.2	46	4	13	34	1.25	0.41	12	3	0.28	149	1	0.06	4	0.12	6	95	0.32	76	21
57	70800N-74250E	5	0.2	2.90	3	236	0.2	5	0.88	0.2	46	7	14	30	2.61	0.27	12	10	0.63	430	4	0.07	8	0.07	7	105	0.30	99	62
58	71000N-75000E	5	0.2	4.63	3	159	0.6	5	2.38	0.3	61	25	60	157	4.99	0.39	19	16	2.26	907	1	0.06	108	0.18	2	222	0.36	159	59
59	71000N-74950E	40	0.2	5.10	3	131	0.7	5	2.10	0.5	52	31	96	263	5.30	0.45	17	20	3.38	1076	2	0.06	187	0.16	3	146	0.24	164	68
60	71000N-74900E	20	0.2	4.36	2	114	0.5	5	2.29	0.2	50	23	51	239	4.91	0.39	15	15	2.13	861	1	0.06	91	0.16	2	181	0.28	160	56
61	74850	50	0.4	5.65	2	190	0.5	5	2.52	0.2	46	25	19	365	5.21	0.56	13	14	1.71	1032	1	0.06	28	0.16	2	174	0.26	164	48
62	74800	70	0.2	4.88	2	136	0.4	5	2.73	0.2	48	26	17	293	6.99	0.47	14	13	1.48	867	1	0.06	16	0.21	6	213	0.43	242	47
63	74750	60	0.2	5.38	2	172	0.5	5	2.30	0.2	45	23	13	338	5.43	0.49	12	13	1.49	885	1	0.06	15	0.18	3	187	0.30	178	47
64	71000N-74700E	50	0.2	4.82	2	160	0.4	5	2.10	0.2	45	19	13	304	4.92	0.45	12	12	1.33	727	1	0.06	12	0.18	4	172	0.29	166	43
65	71000N-74650E	5	0.2	4.11	2	124	0.3	5	1.98	0.2	46	17	16	152	4.68	0.30	11	11	1.21	878	1	0.10	10	0.18	2	152	0.38	170	60
66	74600	5	0.2	4.12	2	74	0.3	5	2.66	0.2	45	19	12	243	5.00	0.29	12	11	1.31	713	1	0.10	9	0.18	2	176	0.44	191	55
67	74550	5	0.2	4.81	2	107	0.4	5	2.64	0.4	44	21	18	288	4.93	0.35	11	14	1.58	895	1	0.10	15	0.14	2	178	0.37	182	55
68	74500	5	0.2	5.11	2	249	0.5	5	2.04	2.8	50	20	18	257	4.97	0.55	14	15	1.58	1036	1	0.09	16	0.14	239	162	0.35	181	708
69	71000N-74450E	5	0.2	4.91	3	197	0.4	5	2.48	1.8	43	21	24	250	4.87	0.43	13	14	1.58	1008	1	0.09	16	0.15	118	181	0.34	180	397
70	71000N-74400E	5	0.2	4.50	4	119	0.4	5	2.81	1.0	42	21	36	241	5.10	0.35	12	16	1.60	790	1	0.09	17	0.15	52	198	0.38	191	198
71	74350	5	0.2	3.77	2	119	0.3	5	2.14	0.3	40	16	30	118	4.64	0.30	10	11	1.37	737	1	0.09	14	0.14	22	172	0.35	172	96
72	74300	5	0.2	3.68	2	102	0.2	5	1.97	0.2	34	15	27	120	4.95	0.31	9	11	1.35	612	1	0.10	13	0.17	12	149	0.35	182	84
73	71000N-74250E	5	0.2	2.38	2	66	0.2	5	1.77	0.2	34	10	27	40	3.44	0.30	7	4	0.94	426	1	0.13	10	0.06	2	111	0.41	145	36
74	71200N-74950E	80	0.2	5.41	2	134	0.5	5	3.25	0.2	35	13	6	349	3.60	0.49	11	8	0.82	605	1	0.05	5	0.12	2	215	0.19	112	27
75	71200N-74900E	40	0.2	5.02	2	202	0.4	5	2.64	0.2	40	16	7	286	4.64	0.58	12	10	1.05	735	1	0.06	7	0.14	5	253	0.26	152	34
76	74850	40	0.2	5.07	2	164	0.4	5	3.01	0.2	35	13	16	172	4.15	0.45	11	8	0.95	560	1	0.05	17	0.13	2	210	0.23	130	34
77	74800	40	0.2	4.78	2	167	0.4	5	2.59	0.2	36	16	15	299	4.39	0.53	11	11	1.24	711	1	0.06	18	0.12	2	194	0.25	143	40
78	74750	30	0.2	4.77	2	151	0.5	5	2.47	0.2	36	17	15	261	3.99	0.51	10	11	1.23	759	1	0.06	18	0.12	2	195	0.24	136	47
79	71200N-74700E	20	0.2	3.95	2	171	0.3	5	2.03	0.2	37	19	21	519	4.51	0.57	10	13	1.53	693	1	0.07	26	0.12	2	161	0.33	162	47
80	71200N-74650E	40	0.2	3.89	2	209	0.3	5	1.47	0.2	33	21	18	511	4.38	0.53	8	13	1.37	616	1	0.06	19	0.12	2	123	0.31	151	47
81	74600	20	0.2	3.67	2	192	0.3	5	1.48	0.2	41	21	25	508	4.30	0.43	9	12	1.32	717	1	0.07	21	0.12	3	119	0.33	152	44
82	74550	20	0.2	3.80	2	812	0.4	5	1.36	0.3	45	20	19	400	4.54	0.56	12	13	1.31	1062	2	0.07	19	0.11	38	104	0.30	146	94
83	74500	10	0.2	3.74	2	532	0.3	5	1.09	0.4	38	24	23	446	4.34	0.53	11	13	1.40	954	2	0.06	24	0.11	135	86	0.34	143	131
84	71200N-74450E	5	0.2	2.87	2	256	0.2	5	1.29	0.4	37	28	24	503	3.85	0.44	10	11	1.28	915	1	0.06	23	0.13	2	94	0.31	130	50

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
85	71200N-74400E	20	0.2	2.64	2	218	0.2	5	1.05	0.2	32	15	23	317	3.74	0.42	8	9	1.22	473	1	0.06	21	0.08	5	85	0.31	131	47
86	74350	5	0.2	2.48	2	217	0.2	5	0.88	0.2	33	16	22	284	3.24	0.31	8	7	0.88	576	1	0.05	16	0.18	9	72	0.30	115	44
87	71200N-74300E	20	0.2	4.93	2	733	0.5	5	1.17	0.2	45	27	26	818	4.56	0.52	30	18	1.65	851	1	0.07	33	0.14	7	102	0.30	149	77
88	71400N-74950E	35	0.2	5.88	2	104	0.5	5	3.83	0.2	30	20	8	415	4.69	0.39	10	12	1.14	913	1	0.06	14	0.13	2	265	0.26	148	42
89	71400N-74900E	45	0.4	5.30	2	150	0.6	5	2.79	0.2	36	30	50	564	5.15	0.50	12	22	3.18	1048	2	0.06	138	0.14	2	163	0.30	163	61
90	71400N-74850E	75	0.2	4.64	2	117	0.4	5	2.85	0.2	41	31	27	1378	6.07	0.33	13	14	1.82	849	2	0.09	28	0.16	2	275	0.44	217	55
91	74800	45	0.2	4.43	2	169	0.4	5	2.37	0.3	44	29	21	931	5.56	0.42	12	14	1.79	907	1	0.09	20	0.12	2	223	0.36	194	56
92	74750	50	0.2	5.22	2	134	0.3	5	2.94	0.2	34	31	14	800	5.28	0.35	10	13	1.59	826	1	0.09	21	0.11	2	225	0.31	170	62
93	74700	35	0.2	5.11	2	369	0.3	5	1.97	0.2	41	29	16	736	5.66	0.75	12	15	1.75	1053	1	0.07	20	0.10	2	180	0.29	206	59
94	71400N-74650E	10	0.2	4.44	2	298	0.3	5	1.73	0.2	38	26	19	522	4.83	0.59	10	13	1.51	1002	1	0.06	18	0.13	2	152	0.28	177	60
95	71400N-74600E	5	0.2	2.48	2	148	0.2	5	1.16	0.2	35	23	10	424	3.96	0.40	8	14	1.17	672	1	0.05	10	0.13	2	80	0.33	129	48
96	74550	5	0.2	3.07	2	191	0.2	5	1.18	0.2	31	19	18	312	4.22	0.35	7	13	1.41	604	1	0.07	18	0.12	2	82	0.37	150	48
97	74500	5	0.2	2.83	3	107	0.2	5	1.42	0.2	38	16	19	213	4.03	0.31	9	10	1.18	569	1	0.07	14	0.12	2	106	0.34	143	42
98	74450	20	0.2	2.90	3	162	0.2	5	1.53	0.2	36	24	22	392	4.61	0.47	8	12	1.65	711	1	0.09	22	0.09	2	101	0.35	161	51
101	71400N 74400E	15	0.2	2.11	4	159	0.2	5	1.30	0.2	34	22	20	202	3.50	0.35	7	8	1.10	1286	1	0.07	14	0.11	2	80	0.29	124	47
102	71400N-74350E	5	0.2	2.24	2	177	0.2	5	1.15	0.2	32	15	19	165	3.76	0.30	7	8	1.10	766	1	0.06	13	0.13	2	79	0.32	135	43
103	74300	5	0.2	2.21	2	189	0.2	5	1.20	0.2	32	22	18	181	3.48	0.31	6	7	0.97	1172	1	0.07	13	0.20	2	80	0.29	128	52
104	74250	95	0.2	3.63	2	163	0.3	5	1.89	0.2	36	25	24	513	5.06	0.40	9	13	1.69	800	1	0.08	28	0.13	2	145	0.37	177	53
105	71400N-74200E	20	0.2	4.21	2	160	0.3	5	2.09	0.2	36	26	26	629	5.50	0.45	9	15	1.97	786	1	0.09	37	0.13	2	164	0.40	196	60
106	71400N-75000E	670	1.4	5.52	2	408	0.6	5	2.59	0.2	44	25	7	2134	6.36	0.76	14	17	1.71	1733	8	0.06	8	0.17	2	265	0.29	187	61
107	71600N-74950E	65	0.2	4.69	2	330	0.4	5	2.22	0.2	43	20	29	895	5.55	0.71	12	14	1.59	1039	1	0.06	25	0.16	2	213	0.32	167	47
108	74900	125	0.4	5.04	2	525	0.4	5	2.07	0.2	41	23	23	498	6.00	1.03	13	15	1.84	1164	3	0.07	30	0.16	2	178	0.32	186	62
109	74850	75	0.2	4.28	2	242	0.3	5	2.44	0.2	44	21	30	268	6.35	0.47	12	12	1.46	892	5	0.07	18	0.15	2	256	0.41	204	49
110	74800	40	0.2	4.98	2	169	0.4	5	2.61	0.2	41	22	14	462	5.45	0.36	11	14	1.53	942	1	0.08	12	0.15	2	297	0.39	189	51
111	71600N-74750E	10	0.2	3.97	2	157	0.3	5	2.12	0.2	41	26	18	337	5.15	0.31	10	13	1.66	821	1	0.10	16	0.10	2	174	0.38	185	55
112	71600N-74700E	15	0.2	4.89	2	149	0.3	5	2.50	0.2	40	32	22	320	5.24	0.33	11	13	1.91	1127	1	0.14	24	0.12	2	199	0.34	177	61
113	74650	10	0.2	4.39	2	147	0.3	5	2.09	0.2	39	32	21	287	5.03	0.27	10	10	1.50	1050	1	0.12	20	0.16	2	153	0.33	167	55
114	74600	5	0.2	4.62	2	122	0.3	5	1.92	0.2	40	32	22	265	5.29	0.27	11	11	1.48	1120	1	0.10	22	0.15	2	127	0.37	182	57
115	74550	5	0.2	2.95	2	130	0.2	5	1.40	0.2	32	20	17	232	5.45	0.29	8	12	1.54	587	1	0.11	20	0.11	2	32	0.42	174	48
116	71600N-74500E	5	0.2	3.54	2	147	0.2	5	1.76	0.2	40	21	24	325	5.03	0.32	10	11	1.49	622	1	0.09	24	0.09	2	135	0.37	171	46
117	71600N-74450E	10	0.6	3.35	2	145	0.2	5	1.57	0.2	35	22	15	691	4.94	0.23	8	8	1.05	689	1	0.07	14	0.16	2	119	0.34	154	38
118	74400	10	0.2	3.33	2	142	0.2	5	1.53	0.2	32	20	21	427	5.51	0.30	8	15	1.52	524	1	0.09	23	0.12	2	85	0.36	177	43
119	74350	5	0.2	2.93	2	103	0.2	5	1.35	0.2	32	15	19	317	4.86	0.22	7	9	1.21	437	2	0.08	19	0.11	2	71	0.36	163	43
120	74300	20	0.2	3.44	2	174	0.2	5	2.08	0.2	37	27	20	367	4.86	0.48	9	12	1.63	715	2	0.08	24	0.12	2	133	0.33	167	47
121	71600N-74250E	20	0.2	3.70	2	167	0.3	5	2.30	0.4	42	29	22	348	5.46	0.50	11	13	1.76	837	3	0.10	24	0.13	2	139	0.37	185	50
122	71600N-74200E *	5	0.2	0.91	3	131	0.2	5	1.45	0.9	39	41	10	383	1.47	0.17	6	2	0.24	606	1	0.03	10	0.14	2	76	0.08	40	27
123	71800N-74900E	45	0.6	6.33	2	369	0.3	5	2.98	0.6	61	52	51	5823	6.37	0.83	19	34	4.34	1106	1	0.11	53	0.29	2	255	0.67	241	91
124	74850	210	0.8	5.30	4	171	0.4	5	3.50	0.7	51	31	23	767	6.84	0.54	15	18	2.34	1217	9	0.09	19	0.25	2	307	0.56	262	73
125	74800	25	0.4	5.48	2	220	0.4	5	3.09	0.5	50	32	19	644	7.30	0.60	15	19	2.39	1192	7	0.09	19	0.23	2	260	0.56	261	75
126	71800N-74750E	30	0.2	5.45	2	215	0.4	5	2.68	0.2	50	31	22	860	6.93	0.51	14	19	2.29	1219	4	0.10	23	0.20	2	243	0.51	250	76
127	71800N-74700E	15	0.4	7.24	2	122	0.5	5	3.04	0.2	33	29	18	399	6.31	0.48	12	18	2.19	1249	1	0.06	28	0.13	2	221	0.24	253	74
128	74650	10	0.2	6.88	2	122	0.5	5	3.05	0.2	32	33	21	413	6.79	0.41	12	18	2.38	1379	1	0.08	29	0.13	2	227	0.31	271	74
129	74600	5	0.2	4.60	2	133	0.4	5	1.91	0.2	34	32	25	290	5.23	0.26	10	12	1.45	1927	1	0.07	20	0.21	2	134	0.25	196	68
130	74550	5	0.2	5.10	2	176	0.4	5	2.56	0.4	38	30	25	420	6.31	0.36	12	16	1.87	1114	3	0.09	24	0.17	2	211	0.40	230	66
131	71800N-74500E	10	0.2	3.62	2	121	0.3	5	1.65	0.2	39	25	23	274	5.20	0.23	9	9	1.15	1231	2	0.08	19	0.24	2	102	0.31	184	52

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
132	71800N-74450E	5	0.2	3.49	2	257	0.3	5	1.42	0.2	43	23	20	277	4.96	0.28	10	11	1.18	942	2	0.08	18	0.16	2	76	0.35	163	57
133	72000N-74850E	20	0.2	5.02	2	138	0.3	5	3.39	0.2	37	38	21	703	5.31	0.25	10	16	2.03	1174	1	0.12	28	0.16	2	250	0.41	209	77
134	74800	10	0.2	4.23	2	235	0.2	5	3.05	0.5	41	31	25	406	5.69	0.47	10	13	2.30	1245	1	0.15	32	0.15	12	212	0.38	204	90
135	74750	10	0.2	5.02	2	224	0.3	5	3.10	0.3	38	35	22	451	5.87	0.34	10	14	2.15	1230	1	0.15	30	0.17	8	246	0.40	212	75
136	72000N-74700E	130	0.2	5.48	2	239	0.4	5	2.08	0.2	39	37	30	687	6.40	0.44	11	17	2.61	1050	1	0.11	52	0.12	2	146	0.39	225	74
137	72000N-74650E	70	0.2	5.94	2	174	0.4	5	3.55	0.2	37	36	24	751	6.13	0.32	10	12	1.99	1000	1	0.14	34	0.16	2	299	0.38	220	64
138	74600	25	0.2	6.45	2	143	0.5	5	1.90	0.2	32	25	21	395	6.35	0.30	10	15	1.60	1103	1	0.06	18	0.18	2	181	0.30	234	67
139	74550 ¤*	5	0.2	0.98	2	156	0.2	5	0.72	0.2	22	7	10	75	1.42	0.15	4	2	0.28	152	1	0.03	6	0.16	2	44	0.08	50	26
140	74500	5	0.6	3.98	2	161	0.2	5	1.40	0.3	35	17	22	200	4.77	0.36	9	9	1.08	645	1	0.08	15	0.26	5	91	0.30	186	63
141	72000N-74450E ¤*	5	0.2	0.59	3	158	0.2	5	0.61	0.2	27	7	8	57	0.85	0.18	4	2	0.18	1172	1	0.02	5	0.18	4	29	0.04	30	42
142	72000N-74400E	45	0.2	4.17	2	315	0.3	5	1.24	0.2	48	14	17	92	4.63	0.53	14	9	1.00	900	1	0.08	12	0.19	7	95	0.33	174	74
143	74350	25	0.2	3.41	2	226	0.2	5	1.76	0.2	48	20	19	72	4.06	0.38	11	6	0.97	1865	1	0.10	13	0.22	5	97	0.35	169	60
144	74250 ¤*	5	0.2	0.72	2	292	0.2	5	0.81	0.3	36	6	9	35	0.87	0.13	6	2	0.20	378	1	0.03	6	0.15	5	56	0.06	29	40
145	72000N-74200E	10	0.2	3.29	4	171	0.2	5	1.28	0.2	51	13	23	187	3.50	0.29	12	8	0.95	440	1	0.08	15	0.19	6	97	0.27	129	47
146	72200N-74900E	60	0.2	6.13	2	204	0.4	5	3.25	0.3	42	91	23	536	7.72	0.28	13	17	2.09	1751	1	0.06	39	0.10	2	321	0.29	242	60
147	72200N-74850E	35	0.2	6.52	2	263	0.4	5	2.69	0.2	41	47	28	462	7.23	0.48	12	21	3.00	1619	2	0.05	37	0.11	2	220	0.37	261	75
148	74800	35	0.2	5.50	2	312	0.3	5	3.25	0.3	41	37	22	486	6.95	0.42	12	18	2.63	1353	2	0.13	29	0.14	5	245	0.44	245	82
151	74750	5	0.2	3.57	3	191	0.2	5	2.13	0.9	37	27	21	231	4.25	0.31	10	9	1.26	1651	1	0.08	20	0.17	3	202	0.26	158	107
152	74700	5	0.4	4.63	2	200	0.3	5	2.10	0.2	39	31	18	346	5.37	0.32	11	13	1.48	1338	2	0.09	19	0.27	2	231	0.33	195	67
153	72200N-74650E	35	0.2	4.49	2	235	0.3	5	2.36	0.3	35	36	24	758	5.43	0.38	10	11	1.91	943	1	0.13	29	0.16	2	222	0.35	189	65
154	72200N-74600E ¤*	5	1.0	2.31	2	132	0.2	5	1.53	0.4	36	11	19	135	2.80	0.29	8	4	0.61	336	1	0.06	12	0.22	3	128	0.22	103	39
155	74550	10	0.2	6.48	2	496	0.4	5	2.31	0.2	44	49	16	622	6.75	0.63	14	17	2.35	2081	1	0.11	28	0.12	2	282	0.25	226	66
156	74500 ¤*	5	0.2	2.18	4	184	0.2	5	1.79	0.2	38	18	16	114	2.77	0.30	8	5	0.75	1271	1	0.06	12	0.18	4	138	0.15	98	65
157	74450 ¤*	5	0.2	0.78	3	184	0.2	5	0.87	0.2	27	9	9	62	1.03	0.16	5	2	0.20	686	1	0.02	7	0.17	3	45	0.06	37	30
158	72200N-74400E ¤*	5	0.2	0.61	6	179	0.2	5	0.93	0.2	28	8	8	55	0.92	0.13	6	4	0.20	758	1	0.02	7	0.17	6	38	0.05	30	53
159	72200N-74350E ¤*	5	0.2	0.76	8	92	0.2	5	3.54	0.9	33	14	11	121	1.13	0.19	6	4	0.40	610	1	0.03	9	0.14	5	107	0.06	43	34
160	74300 ¤*	5	0.2	2.46	5	217	0.2	5	1.42	0.3	37	25	19	178	2.92	0.30	10	6	0.70	1529	1	0.05	13	0.22	9	136	0.17	102	55
161	74250 ¤*	5	0.2	1.55	2	138	0.2	5	0.84	0.2	31	6	14	59	1.72	0.26	6	3	0.30	241	1	0.04	7	0.18	4	66	0.07	66	37
162	72200N-74200E	5	0.2	1.75	2	166	0.2	5	1.01	0.2	34	16	15	130	2.28	0.19	6	4	0.51	622	1	0.04	11	0.16	4	84	0.13	73	34
163	72400N-74900E *	10	0.2	5.45	3	122	0.3	5	3.28	0.4	38	96	37	733	7.73	0.39	11	14	2.29	1081	2	0.09	76	0.13	2	302	0.38	231	56
164	72400N-74850E	5	0.2	5.35	2	120	0.3	5	3.73	0.3	35	51	29	451	6.49	0.46	10	11	1.99	997	1	0.10	47	0.10	2	320	0.38	224	55
165	74800	60	0.2	5.45	2	219	0.3	5	3.37	0.2	40	85	38	783	7.48	0.50	13	13	2.19	1363	4	0.08	57	0.15	2	387	0.42	255	64
166	74750	30	0.2	5.63	2	216	0.3	5	3.13	0.5	42	116	26	738	7.66	0.56	13	14	1.98	1676	2	0.07	43	0.14	2	408	0.38	258	63
167	74700	25	0.4	5.57	2	292	0.3	5	2.43	0.2	39	35	25	579	6.22	0.37	11	12	1.50	1058	2	0.08	26	0.17	2	293	0.38	226	67
168	72400N-74650E	70	0.4	5.34	2	313	0.3	5	2.01	0.2	39	42	26	893	5.98	0.37	10	13	1.60	1163	2	0.07	28	0.21	2	238	0.35	206	72
169	72400N-74600E	20	0.2	6.10	2	331	0.4	5	1.86	0.2	38	33	22	431	6.45	0.52	11	16	1.84	1555	1	0.09	21	0.20	2	179	0.30	247	76
170	74550	45	0.2	6.23	2	253	0.4	5	2.28	0.2	35	69	36	566	7.56	0.58	12	16	1.95	1592	3	0.08	41	0.16	2	248	0.32	255	68
171	74500	5	0.2	4.77	2	231	0.4	5	1.75	0.2	45	43	33	350	5.90	0.35	12	11	1.21	1588	1	0.06	55	0.31	2	174	0.29	200	57
172	74450 *	5	0.2	5.42	2	139	0.3	5	3.48	0.2	36	51	15	495	5.91	0.43	10	11	1.47	1449	2	0.06	23	0.13	2	211	0.22	193	58
173	72400N-74400E	5	0.2	5.31	2	246	0.4	5	1.81	0.3	42	50	27	430	6.42	0.55	11	14	1.48	1397	4	0.07	29	0.17	2	165	0.24	207	64
174	72400N-74350E ¤	5	0.2	3.24	2	321	0.3	5	2.08	0.3	47	33	23	234	3.96	0.45	10	8	0.99	1212	1	0.05	17	0.25	2	136	0.17	132	51
175	74300	60	0.2	5.23	2	217	0.3	5	2.76	0.4	48	70	32	697	6.84	0.50	14	13	2.11	1222	1	0.08	56	0.14	2	274	0.35	226	61
176	74250	15	0.2	5.81	2	238	0.3	5	2.72	0.2	45	76	37	765	7.36	0.46	14	15	2.37	1231	1	0.10	67	0.14	2	291	0.39	243	65
177	72400N-74200E	10	0.4	4.12	2	298	0.3	5	2.23	0.5	48	85	30	782	5.07	0.39	12	8	1.19	2480	1	0.07	30	0.27	2	221	0.27	169	54
178	72600N-74900E	5	0.2	6.37	2	185	0.4	5	2.32	0.5	44	61	66	312	7.89	0.72	14	15	2.77	1761	1	0.06	94	0.12	2	246	0.24	241	99

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
																													0406-025 Pg. 5 of 5
179	72600N-74850E TF	10	0.2	5.68	2	145	0.3	5	3.03	0.2	43	107	40	732	8.05	0.33	14	12	1.64	1344	2	0.07	40	0.14	2	386	0.30	227	59
180	74800 TF	5	0.2	5.21	2	257	0.3	5	2.81	0.2	46	96	26	483	6.74	0.37	13	11	1.62	1186	1	0.08	32	0.13	2	468	0.35	212	54
181	74750 TF	75	0.4	5.36	2	306	0.3	5	2.84	0.5	53	100	14	786	6.95	0.75	15	14	2.12	1551	1	0.05	21	0.17	2	343	0.42	260	54
182	74700	80	0.4	5.11	2	232	0.3	5	2.79	0.2	47	180	11	1265	9.44	0.44	14	11	1.58	1647	11	0.05	27	0.14	2	315	0.30	256	51
183	72600N-74650E	55	0.6	5.16	2	192	0.3	5	2.04	0.2	42	64	28	1307	8.12	0.40	12	14	1.74	1119	10	0.05	34	0.18	2	205	0.35	250	56
184	72600N-74600E	15	0.6	4.59	2	278	0.3	5	1.61	0.2	43	36	21	626	6.47	0.39	11	10	1.14	1454	2	0.05	15	0.20	2	155	0.35	235	51
185	74550	15	0.6	4.63	2	239	0.3	5	1.93	0.3	40	30	31	494	6.37	0.37	11	12	1.42	1128	1	0.07	22	0.23	2	193	0.38	235	57
186	74500 ◘	5	0.2	0.59	4	323	0.2	5	2.72	1.4	45	19	11	133	0.85	0.15	5	2	0.45	725	1	0.02	6	0.15	2	152	0.05	30	39
187	74450	5	0.2	3.87	2	172	0.2	5	1.79	0.2	48	27	28	407	5.39	0.30	11	10	1.36	734	1	0.08	24	0.16	2	128	0.37	192	44
188	72600N-74400E	30	0.2	5.23	2	289	0.3	5	2.64	0.4	49	51	27	645	6.91	0.58	13	13	2.13	1136	1	0.06	41	0.15	2	277	0.39	242	64
189	72600N-74350E	25	0.2	4.72	2	270	0.3	5	2.59	0.5	47	43	23	568	6.21	0.49	13	11	1.84	924	1	0.05	29	0.17	2	272	0.37	226	57
190	74300	15	0.4	4.67	2	266	0.3	5	2.39	0.2	45	36	31	538	6.07	0.51	12	11	1.84	844	1	0.05	29	0.21	2	244	0.38	220	58
191	74250 ◘	5	0.2	1.33	3	215	0.2	5	2.20	1.0	34	39	15	276	2.07	0.25	5	4	0.66	1064	1	0.02	13	0.17	2	178	0.12	70	76
192	72600N-74200E	45	0.2	4.71	2	221	0.2	5	2.53	0.3	36	43	26	461	6.26	0.55	10	11	1.90	981	1	0.05	37	0.14	2	253	0.35	216	57
193	72800N-74750E	35	0.2	5.30	2	183	0.3	5	2.01	0.5	35	73	19	467	6.81	0.41	10	12	1.94	1595	2	0.08	33	0.13	2	197	0.35	200	65
194	72800N-74700E	50	0.2	5.34	2	276	0.3	5	2.07	0.3	35	138	19	870	7.85	0.34	10	15	2.09	3090	3	0.06	47	0.14	2	292	0.31	242	68
195	74650	25	0.4	5.88	2	233	0.3	5	2.41	0.5	31	80	22	590	7.70	0.40	10	13	2.17	1487	2	0.07	39	0.14	2	207	0.41	252	72
196	74600	30	0.2	5.80	2	217	0.3	5	2.37	0.4	33	52	29	533	7.54	0.30	10	13	2.41	1228	1	0.09	45	0.14	2	176	0.41	240	75
197	74550	10	0.2	3.37	2	198	0.2	5	1.59	0.4	34	66	24	272	4.74	0.24	7	5	0.76	1693	2	0.04	14	0.33	2	121	0.23	152	46
198	72800N-74500E	10	0.2	2.75	2	203	0.2	5	1.59	0.2	33	47	16	229	3.83	0.20	6	5	0.87	1429	1	0.06	14	0.20	2	114	0.21	124	43
201	72800N-74450E	20	0.2	4.94	7	197	0.3	5	2.28	0.9	34	62	25	425	6.62	0.46	11	12	1.80	1119	1	0.06	34	0.14	2	200	0.34	221	66
202	74400	20	0.2	5.42	6	215	0.3	5	2.53	1.0	35	78	24	478	7.19	0.47	13	13	2.06	1351	1	0.06	40	0.14	2	217	0.37	233	70
203	74350	10	0.2	3.01	9	193	0.3	5	1.50	1.3	35	93	17	312	4.39	0.25	8	6	0.77	2940	1	0.04	16	0.26	2	126	0.22	143	62
204	74300	10	0.4	3.13	8	161	0.3	5	1.30	0.9	33	73	21	284	4.39	0.24	8	5	0.77	2001	1	0.04	15	0.30	2	109	0.22	143	59
205	72800N-74250E	5	0.2	2.85	6	194	0.3	5	1.16	0.6	34	63	19	311	3.85	0.25	8	5	0.58	1980	1	0.04	15	0.32	2	101	0.19	124	52
206	72800N-74200E	100	0.2	4.43	3	160	0.2	5	2.00	0.6	35	14	17	152	5.19	0.32	11	6	0.82	939	1	0.05	12	0.15	2	173	0.45	220	43

APPENDIX IV

STATEMENT OF COSTS

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: JOH DATE: OCTOBER 1994

TYPE OF REPORT: GEOLOGICAL/GEOCHEMICAL

a)	Wages:		
	No. of Mandays :	40 mandays	
	Rate per Manday:	$169.05/manday	
	Dates From :	June 14 to June 27, 1994	
	Total Wages :	40 mandays x $169.05/manday	$6,762.00
b)	Food & Accommodations:		
	No. of Mandays :	40 mandays	
	Rate per Manday:	$35.65/manday	
	Dates From :	June 14 to June 27, 1994	
	Total Costs :	40 mandays x $35.65/manday	$1,426.00
c)	Transportation:		
	No. of Mandays :	40 mandays	
	Rate per Manday:	$26.10/manday	
	Dates From :	June 14 to June 27, 1994	
	Total Costs :	40 mandays x $26.10/manday	$1,044.00
d)	Instrument Rental:		
	Type of Instrument:		
	No. of Mandays :		
	Rate per Manday:		
	Dates From :		
	Total Costs :		
e)	Type of Instrument:		
	No. of Mandays :		
	Rate per Manday:		
	Dates From :		
	Total Costs :		
f)	Camp Supplies		$509.00

e)	Analysis: (See attached schedule)		$3,367.20
f)	Cost of Preparation of Report:		
	Author :		$520.00
	Drafting:		$220.00
	Typing :		$200.00
g)	Other:		
	Contractor:	Pacific Western Helicopters 6.25 hours @ $702.00/hour (including fuel)	$4,399.00
		TOTAL COST	**$18,447.20**
h)	Unit Costs for Geology		
	No. of Mandays :	19 mandays	
	No. of Units :	19 mandays	
	Unit Costs :	$377.00/manday	
	Total Cost :	19 mandays x $377.00/manday	$7,163.00
i)	Unit Costs for Geochem		
	No. of Mandays :	8 mandays	
	No. of Units :	240 samples	
	Unit Costs :	$26.60/sample	
	Total Cost :	240 samples x $26.60/sample	$6,383.20
j)	Unit Costs for Linecutting		
	No. of Mandays:	13 mandays	
	No. of Units :	12.5 line km	
	Unit Costs :	$394.48/km	
	Total Costs :	12.5 line km x $394.48/km	$4,931.00
		GRAND TOTAL	**18,477.20**

NORANDA EXPLORATION COMPANY, LIMITED

DETAILS OF ANALYSIS COSTS

PROJECT: JOH

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Element) + Geochem Au	46 Rocks	$15.00	$690.00
ICP (30 Element) + Geochem Au	194 Soils	$13.80	$2,677.20
		GRAND TOTAL	**$3,367.20**

APPENDIX V

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, D. Graham Gill of the City of Vancouver, Province of British Columbia, hereby certify that:

I am a geologist residing at 5442 - 7th Avenue, Delta, B.C.

I have graduated from the University of British Columbia in 1983 with a BSc in geology.

I have worked in mineral exploration since 1979.

I have been a temporary employee with Noranda Exploration Company, Limited since May, 1983 and a permanent employee since November 1987.

I am a member in good standing of the Professional Engineers & Geoscientist of British Columbia.

D. Graham Gill, P.Geo.

JOH 3

JOH 4

JOH 7

JOH 8

JOH 9

JOH 6

674000E

675000E

676000E

677000E

6272000N

6271000N

6270000N

6269000N

1500

2000

1700

N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,543

100 50 0 100 200 300 400M.

REVISED	JOH PROPERTY
	COPPER IN SOILS
	500/1000 ppm

PROJ. No. 584
N.T.S. 94D/9
DWG No. 7

SURVEY BY: C.GILL
DRAWN BY: C.GILL
DATE: OCTOBER 3,1994
SCALE: 1:5000

NORANDA EXPLORATION
OFFICE: VANCOUVER

JOH 3

JOH 4

JOH 7

JOH 8

JOH 9

JOH 6

6272000N

6271000N

6270000N

6269000N

674000E

675000E

676000E

677000E

1500

2000

1700

N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,543

100 50 0 100 200 300 400M.

REVISED	JOH PROPERTY
	GOLD IN SOILS
	50/100 ppm
PROJ. No. 584	SURVEY BY: G.GILL DATE: OCTOBER 3,1994
N.T.S. 94D/9	DRAWN BY: G.GILL SCALE: 1:5000
DWG No. 6	NORANDA EXPLORATION
	OFFICE: VANCOUVER

JOH 3

JOH 4

JOH 7

JOH 8

JOH 9

JOH 6

6272000N

6271000N

6270000N

6269000N

6740000E

6750000E

6760000E

6770000E

1500

2000

1700

L 72800 N

L 72400 N

L 72000 N

L 71600 N

L 71400 N

L 71200 N

L 70800 N

L 70400 N

75000 E

RL0013 5 102
RL0014 5 149
RL0015 5 198
RL0016 20 87
RL0017 5 130
5 68 RL0018
5 144 RL0019
5 113 RL0023
RL0020 5 129
RL0021 5 218
RL0022 5 118
5 351 RL0024
LE0031 5 161
LE0029 5 146
LE0032 5 283
LE0030 5 419
LE0034 5 194
LE0033 5 192
LE0006 5 244
5 143 LE0050
5 457 LE0052
5 394 LE0054
LE0051
5 193
LE0005 5 143
KP0030 5 177
LE0002 5 47
LE0001 5 185
5 158 LE0055
5 135 LE0056
5 117 LE0057
5 216 LE0058
KP0028 5 300
KP0020 5 72
KP0026 5 300
KP0045 5 43
GG0043 60 353
KP0033 5 77
KP0034
KP0035 5 161
5 212
GG0042 5 49
GG0044 5 64
GG0041 5 397
GG0045 20 775
LE0018 810 8756
RL0002 80 40
RL0001 5 754
RL0008 5 111
RL0012
RL0011 5 275
60 2404 RL0050 5 335
PM0109
5 118 RL0066
5 160 RL0067
5 80 RL0068
5 329 RL0061
5 485 RL0048
5 292 RL0047
RL0049 30 333
RL0070 5 343
PM0108 5 172
RL0069 5 200
RL0064 20 198
RL0065 5 347
RL0063 5 160
RL0062 5 142
70 953 PM0107
RL0060 5 264
50 411 RL0053
10 271 PM0106
50 1250 RL0059
10 491 RL0058
60 617 RL0055
RL0057 10 157
RL0056 5 253
RL0054 30 395
PM0105 70 1624
RL0046 20 1945
PM0103 5 206
PM0104 90 2290
RL0052 40 393
PM0102 70 1077
RL0045 5 143

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,543

100 50 0 100 200 300 400M.

REVISED	JOH PROPERTY
	SAMPLE LOCATIONS & ASSAY VALUES
PROJ. No. 584	SURVEY BY: G.GILL DATE: OCTOBER 3,1994
N.T.S. 940/9	DRAWN BY: G.GILL SCALE: 1:5000
DWG No. 5	NORANDA EXPLORATION OFFICE: VANCOUVER

6272000N

6271000N

6270000N

6269000N

1500

2000

1700

674000E

675000E

676000E

677000E

L 72800 N

L 72400 N

L 72000 N

L 71800 N

L 71400 N

L 71000 N

L 70800 N

L 70400 N

JOH

GEOLOGICAL LEGEND

INTRUSIVES

4 Granodiorite

3 Diorite

34/75 Joint/Fracture

75 Shear

45 Bedding

Foliation

50 Dyke

TAKLA VOLCANICS

2 Augite porphyry flows, flow breccias and minor tuffaceous units

1 Andesitic tuff with sediments

Fractured controlled gossan zones

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,543

100 50 0 100 200 300 400M.

REVISED	JOH PROPERTY
	GEOLOGY
PROJ.No. 584	SURVEY BY: G.GILL — DATE: OCTOBER 3,1994
N.T.S. 94D/9	DRAWN BY: G.GILL — SCALE: 1:5000
DWG No. 4	NORANDA EXPLORATION OFFICE: VANCOUVER