GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL AND PHYSICAL ASSESSMENT REPORT ON THE JOH, DARB, CROYDON, MARIPOSITE & KLIYUL PROPERTIES

LATITUDE: 56°30'N LONGITUDE: 126°08'W

FEBRUARY 1994

Author: D.G.Gill, P. Geo. (Project Geologist)
Owner : Hemlo Gold Mines Inc.
Operator: Noranda Exploration Company, Limited
(No Personal Liability)

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APPENDICES

DRAWINGS

SCALE

1.0 INTRODUCTION

During the period between July 4 and October 7, 1993 Noranda Exploration Company, Ltd. conducted prospecting, soil and rock geochemistry, mapping, test pitting and ground geophysics (mag) on the Joh, Darb, Croydon, Mariposite and Kliyul claim blocks. A helicopter-borne magnetic, electromagnetic, radiometric and VLF-EM survey was also completed over the survey area between July 20 to 22, 1993 by Geonex Aerodat Inc.

The focus of the exploration programme described in this report was to delineate further favorable stratigraphy and intrusive activity associated with the main Kliyul property skarn zone and to generate a stratigraphic model or section of the known mineralized horizons which would be useful in future regional mapping programmes throughout the claim blocks.

This report not only describes the work conducted by Noranda during the 1993 field programme but also incorporates historic data (gained through government assessment reports) to link all surveys together in an effort to define further possible Cu-Au skarn occurrences.

1.1 Location and Access

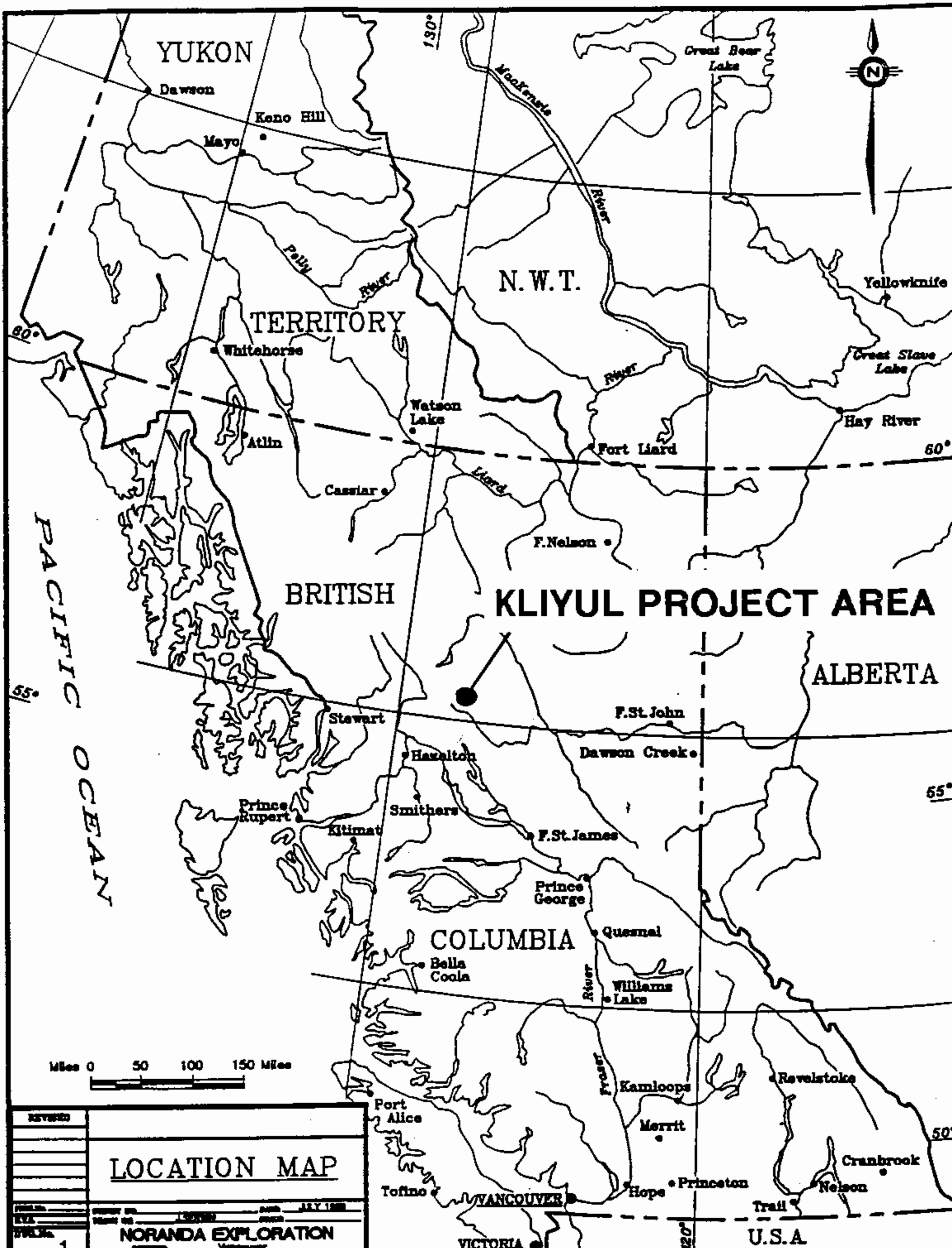
The Kliyul project area is located approximately 200 kms north-northeast of Smithers, B.C. on NTS Mapsheets 94D/8 and 9 in the Omineca Mining Division.

Camp mobilization was achieved by helicopter based at both the Osilinka Logging Camp and Suskeena Lodge (see Drawing #1).

1.2 Topography and Physiography

The Kliyul 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 Kliyul Creek in the south. Most of the area is above treeline with elevations ranging from 3805 to 7480 feet. The project area is drained by Darb Creek in the north, Goldway and Dortatelle creeks to the west, Kliyul Creek in the south and the headwaters of Lay Creek to the north and east.

Slopes of +45° occur along east-west and dominantly north-northwest trending ridges although the central portion of the area (Kliyul claim block) consists of a gently sloping, wide marshy valley floor.


YUKON
TERRITORY
N. W. T.
BRITISH
COLUMBIA
ALBERTA
PACIFIC OCEAN
U.S.A.
KLIYUL PROJECT AREA
Great Bear Lake
Great Slave Lake
Mackenzie River
Pelly River
Liard River
Fraser River
Dawson
Keno Hill
Mayo
Whitehorse
Atlin
Watson Lake
Cassiar
Fort Liard
Hay River
Yellowknife
F. Nelson
Stewart
F. St. John
Dawson Creek
Hazelton
Smithers
Prince Rupert
Kitimat
F. St. James
Prince George
Quesnel
Bella Coola
Williams Lake
Kamloops
Revelstoke
Merrit
Port Alice
Tofino
VANCOUVER
Hope
Princeton
Cranbrook
Nelson
Trail
VICTORIA
60°
55°
50°
130°
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Miles 0 50 100 150 Miles
LOCATION MAP
NORANDA EXPLORATION
1

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.

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 soil 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, Darb, Croydon, Mariposite and Kliyul properties are listed below by groupings with corresponding owners, expiry dates, tenure numbers and property names.

GROUP	CLAIM	TITLE	UNITS	EXPIRY DATE	OWNER	PROPERTY
KLI	KLI 1	245065	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 2	245066	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 3	245067	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 4	245068	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 5	245069	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 6	245070	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 7	245071	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 8	245072	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 9	245073	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 10	245074	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 11	245075	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 12	245076	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 13	245077	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 14	245078	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 15	245079	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 16	245080	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 17	245081	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 18	245082	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 19	245083	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 20	245084	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 21	245155	1	Sep. 11, 2004	Hemlo Gold Mines	Kliyul
KLI	KLI 25	245156	1	Sep. 11, 2004	Hemlo Gold Mines	Kliyul
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KLI	UTA 6	245778	1	Aug. 29, 2004	Hemlo Gold Mines	Kliyul
KLI	UTA 8	245779	1	Aug. 29, 2004	Hemlo Gold Mines	Kliyul
KLI	YUL 7	319492	1	Jul. 15, 2000	Hemlo Gold Mines	Mariposite
KLI	YUL 8	319493	1	Jul. 15, 2000	Hemlo Gold Mines	Mariposite
KLI	YUL 9	319494	1	Jul. 15, 2000	Hemlo Gold Mines	Mariposite
KLI	YUL 10	319495	1	Jul. 15, 2000	Hemlo Gold Mines	Mariposite
KLI	YUL 11	319496	1	Jul. 15, 2000	Hemlo Gold Mines	Mariposite

GROUP	CLAIM	TITLE	UNITS	EXPIRY DATE	OWNER	PROPERTY
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KLI	YUL 13	319498	1	Jul. 20, 2000	Hemlo Gold Mines	Mariposite
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CRO	JO 8	242400	20	Jul. 12, 1995	Golden Rule Res.	DARB
CRO	CRO 2	242402	20	Jul. 11, 1995	Golden Rule Res.	DARB
CRO	CRO 3	242403	20	Jul. 11, 1995	Golden Rule Res.	DARB
CRO	CRO 4	242404	20	Jul. 11, 1995	Golden Rule Res.	DARB
CRO	YUL 3	318890	1	Jul. 6, 1995	Hemlo Gold Mines	Mariposite
CRO	YUL 4	318891	1	Jul. 6, 1995	Hemlo Gold Mines	Mariposite
CRO	YUL 5	318892	1	Jul. 6, 1995	Hemlo Gold Mines	Mariposite
CRO	YUL 6	318893	1	Jul. 6, 1995	Hemlo Gold Mines	Mariposite
Goldway	DARB 1	316540	1	Mar. 10, 1996	Hemlo Gold Mines	Mariposite
Goldway	DORT 1	316536	20	Mar. 10, 1996	Hemlo Gold Mines	Mariposite
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JO	KLI 14	245078	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JO	KLI 15	245079	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JO	KLI 39	245382	1	Jul. 12, 2004	Hemlo Gold Mines	Kliyul
JO	KLI 40	245383	1	Jul. 12, 2004	Hemlo Gold Mines	Kliyul
JO	KLI 43	245386	1	Jul. 12, 2004	Hemlo Gold Mines	Kliyul
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KLI-UTA	KLI 1	245065	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
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KLI-UTA	KLI 49	245392	1	Jul. 12, 2004	Hemlo Gold Mines	Kliyul
KLI-UTA	KLI 50	245393	1	Jul. 12, 2004	Hemlo Gold Mines	Kliyul
KLI-UTA	UTA 6	245778	1	Aug. 29, 2004	Hemlo Gold Mines	Kliyul
KLI-UTA	UTA 8	245779	1	Aug. 29, 2004	Hemlo Gold Mines	Kliyul
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KLI-UTA	JOH 5	242523	20	Aug. 1, 1996	Major General Res	JOH
KLI-UTA	JOH 6	242524	20	Aug. 1, 1996	Major General Res	JOH

GROUP	CLAIM	TITLE	UNITS	EXPIRY DATE	OWNER	PROPERTY
JOH 1	KLI 5	245069	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 6	245070	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 8	245072	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 10	245074	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 17	245081	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 19	245083	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 20	245084	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 25	245156	1	Sep. 11, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 26	245157	1	Sep. 11, 2004	Hemlo Gold Mines	Kliyul
JOH 1	KLI 27	245158	1	Sep. 11, 2004	Hemlo Gold Mines	Kliyul
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JOH 2	KLI 6	245070	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 2	KLI 8	245072	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 2	KLI 10	245074	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
JOH 2	KLI 17	245081	1	Aug. 10, 2004	Hemlo Gold Mines	Kliyul
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JOH 2	KLI 21	245155	1	Sep. 11, 2004	Hemlo Gold Mines	Kliyul
JOH 2	DARB 2	316541	1	Mar. 10, 2000	Hemlo Gold Mines	Mariposite
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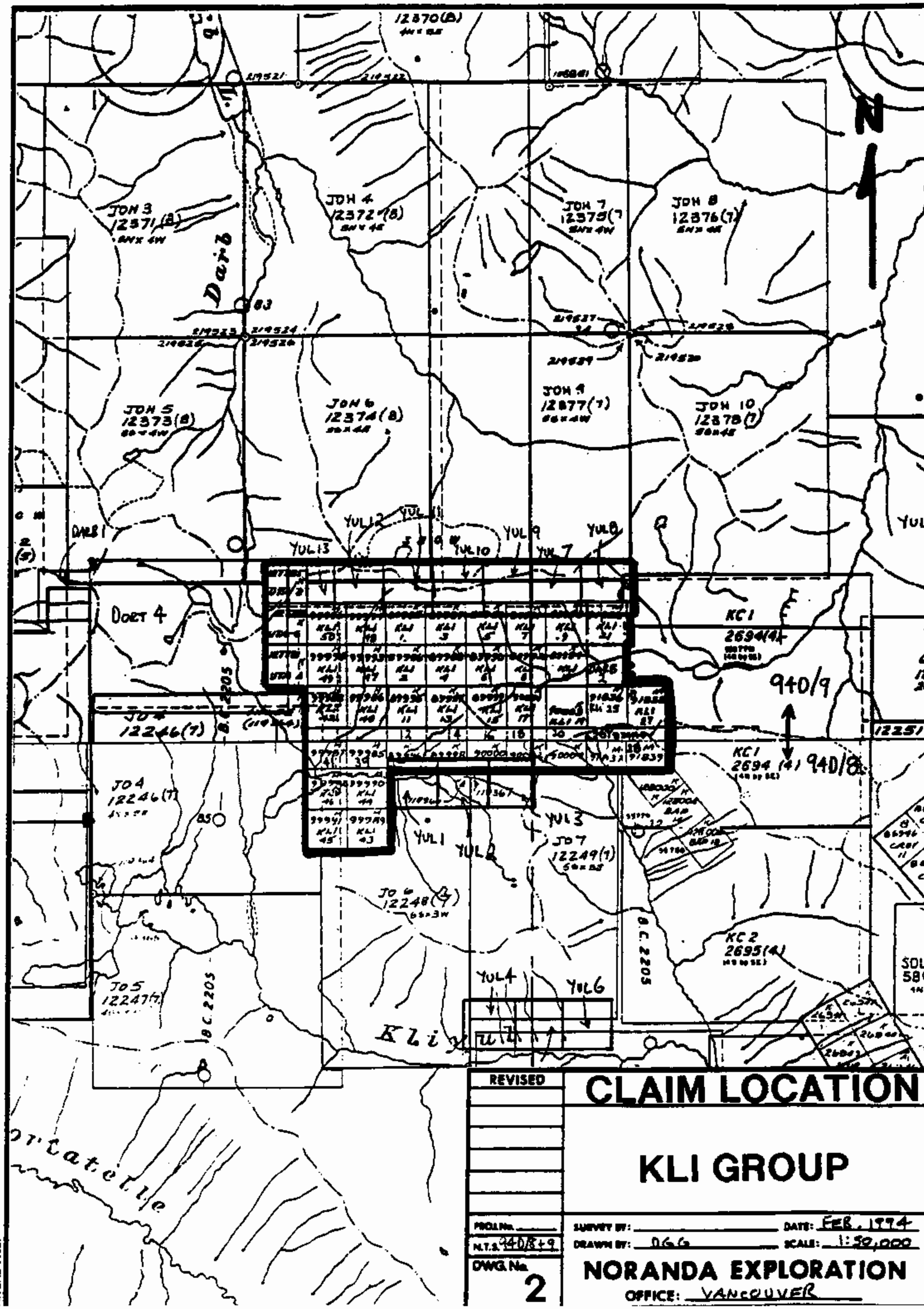
*	JOH 13	242608	18	Aug. 21, 1995	Major General Res	JOH

* Claims which are part of the property but were not grouped and to which no assessment is being applied.

Please refer to the Statement of Exploration forms at the beginning of this report for further clarification of assessment and work performed on each claim. Following are a series of maps showing the claim groupings involved.

1.5 Economic Potential

The Kliyul 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.



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CLAIM LOCATION

KLI GROUP

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N.T.S. 94D/8+9
DWG. No. 2

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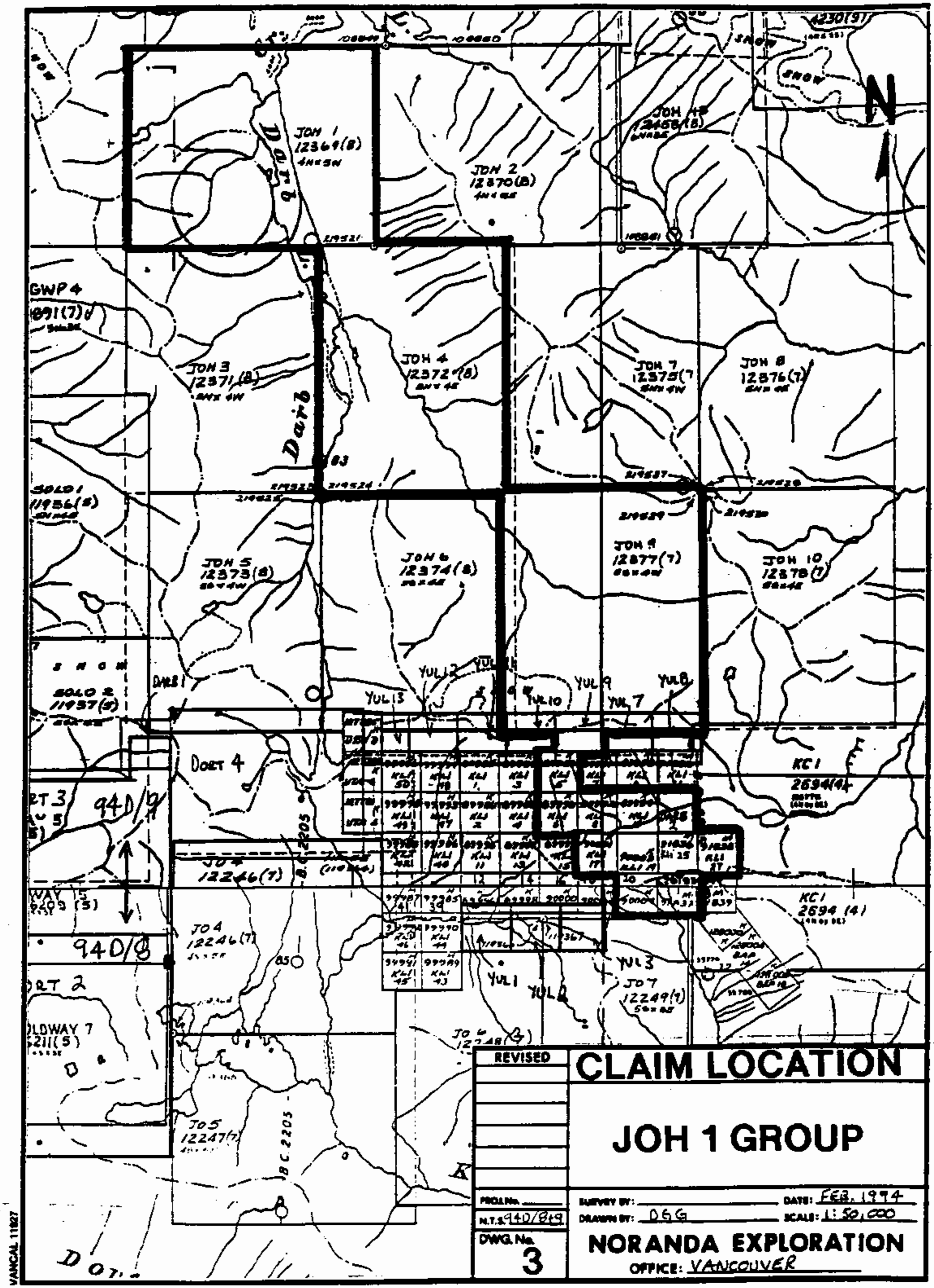
DATE: FEB. 1994
SCALE: 1:50,000

NORANDA EXPLORATION

OFFICE: VANCOUVER

ANCAL 11827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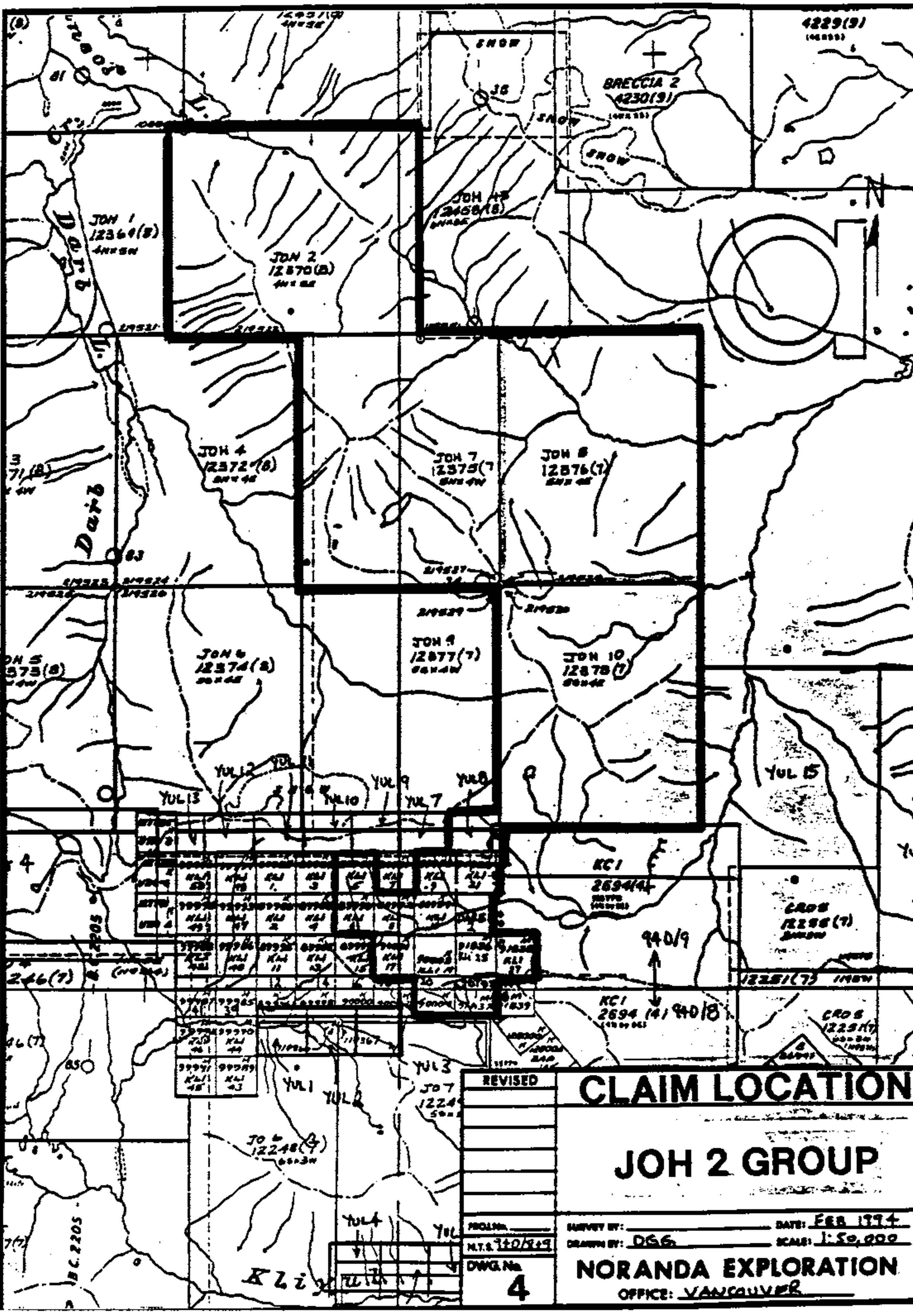

CLAIM LOCATION

JOH 2 GROUP

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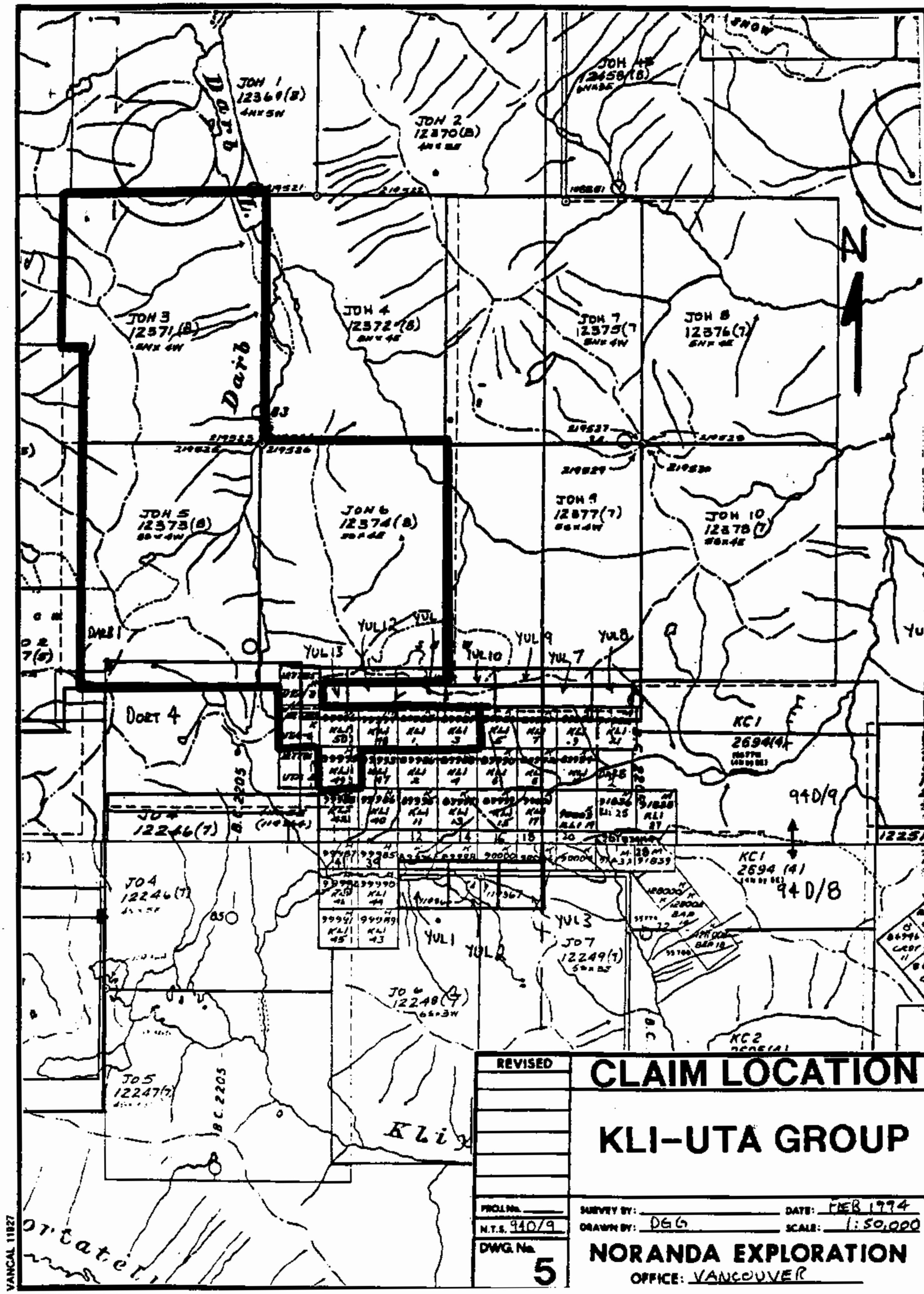
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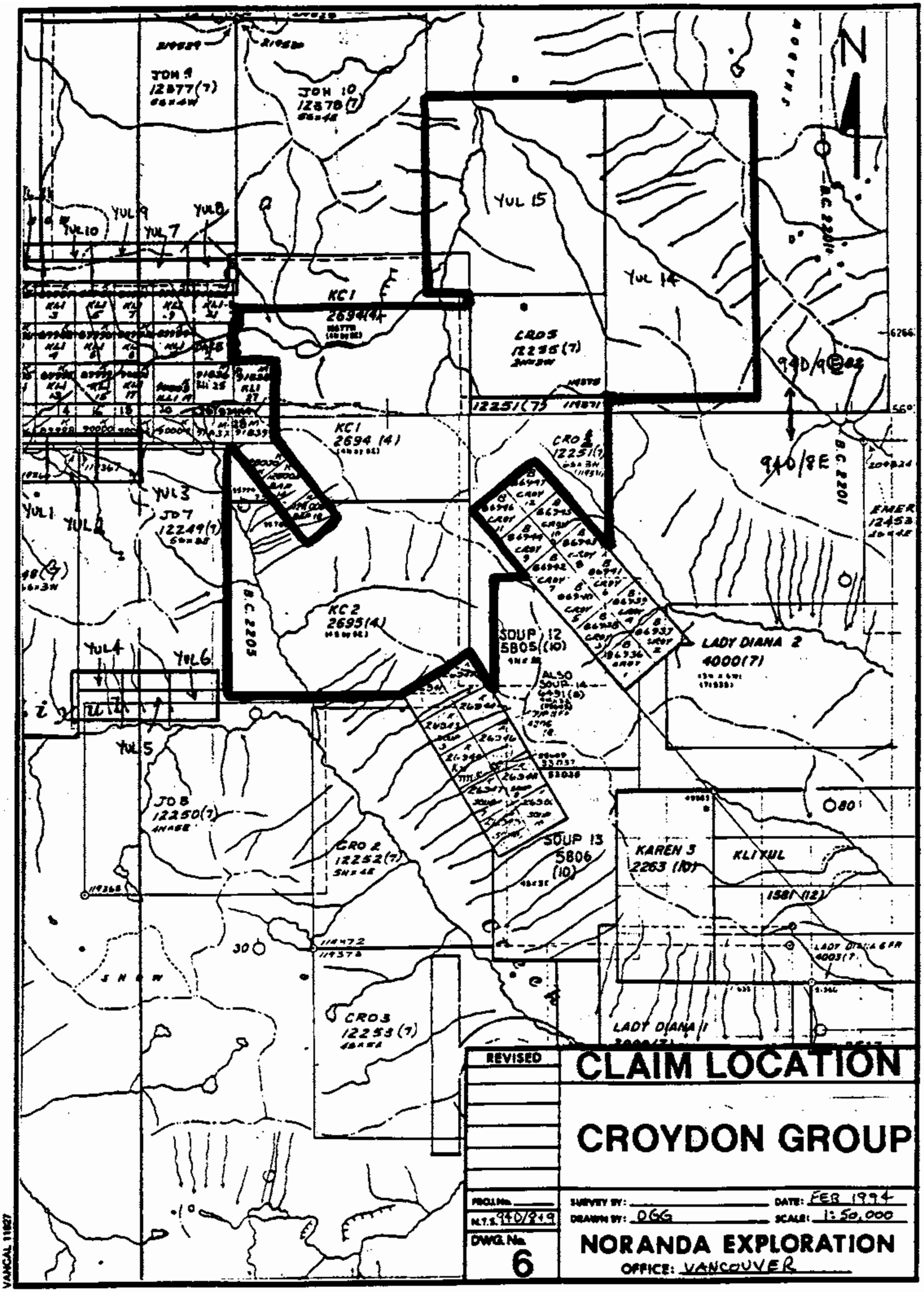
VANCAL 11827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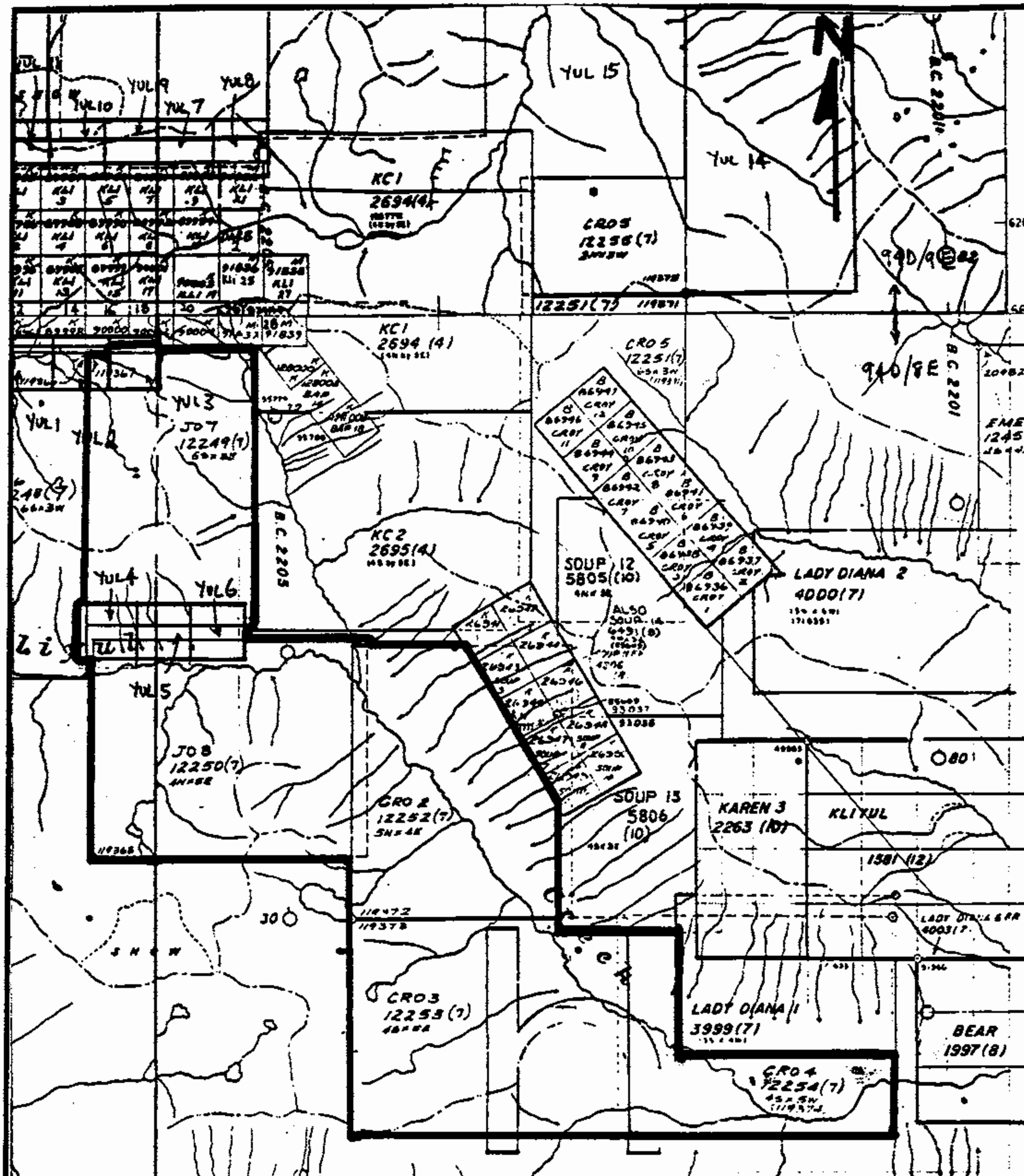
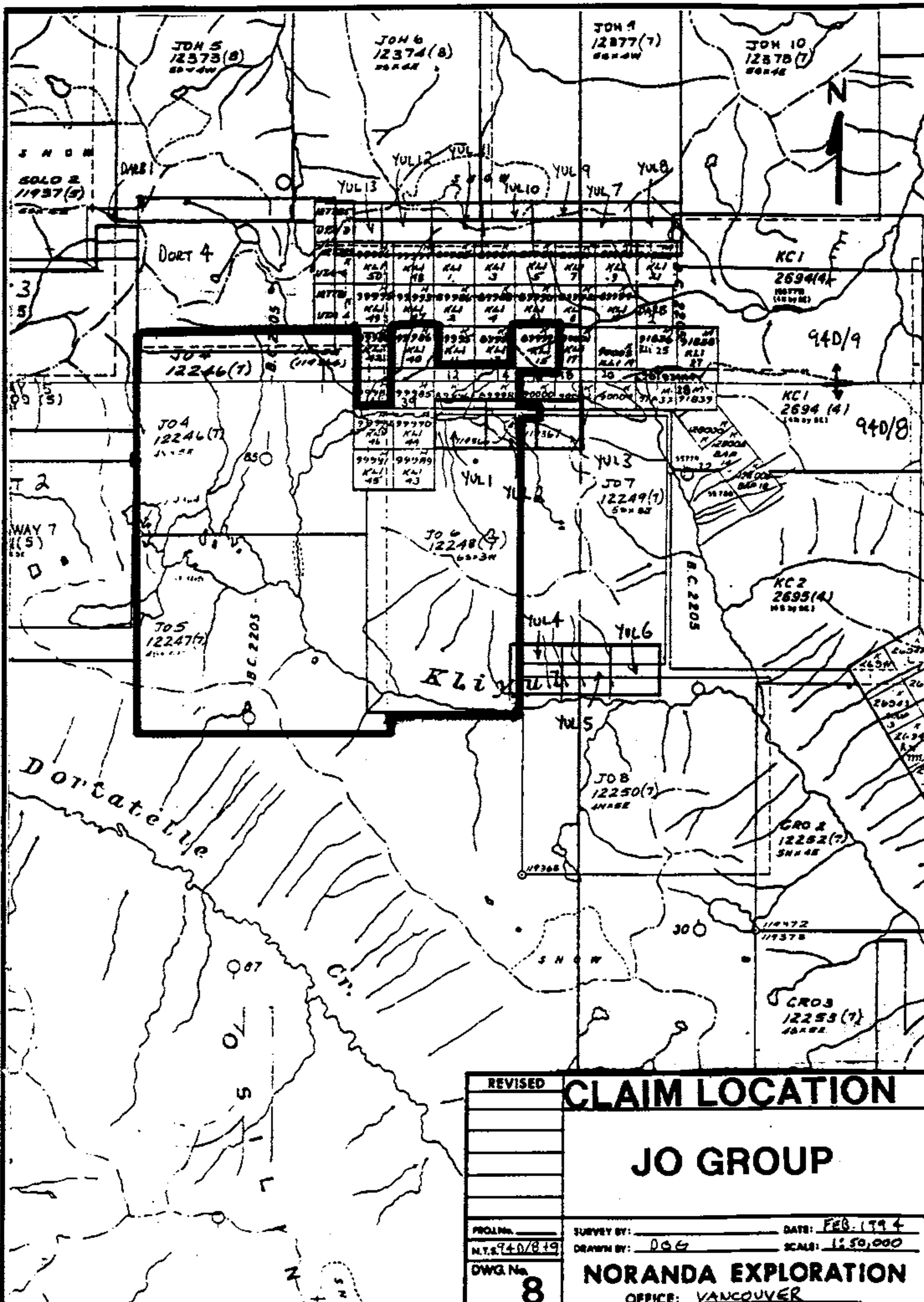
YUL 3
YUL 4
YUL 5
YUL 6
YUL 7
YUL 8
YUL 9
YUL 10
LADY DIANA 1
94D/9E
94D/8E
B.C. 2201
EMER
12453
VANCAL 11827



REVISED	CLAIM LOCATION
	CRO GROUP
PROJ. No.	SURVEY BY: DATE: FEB 1994
N.T.S. 94D/8	DRAWN BY: DGG SCALE: 1:50,000
DWG. No. 7	NORANDA EXPLORATION OFFICE: VANCOUVER

JANCAL 11927



CLAIM LOCATION

JO GROUP

REVISED

PROJ. No.

N.T.S. 94D/8 & 9

DWG. No. 8

SURVEY BY:

DATE: FEB. 1994

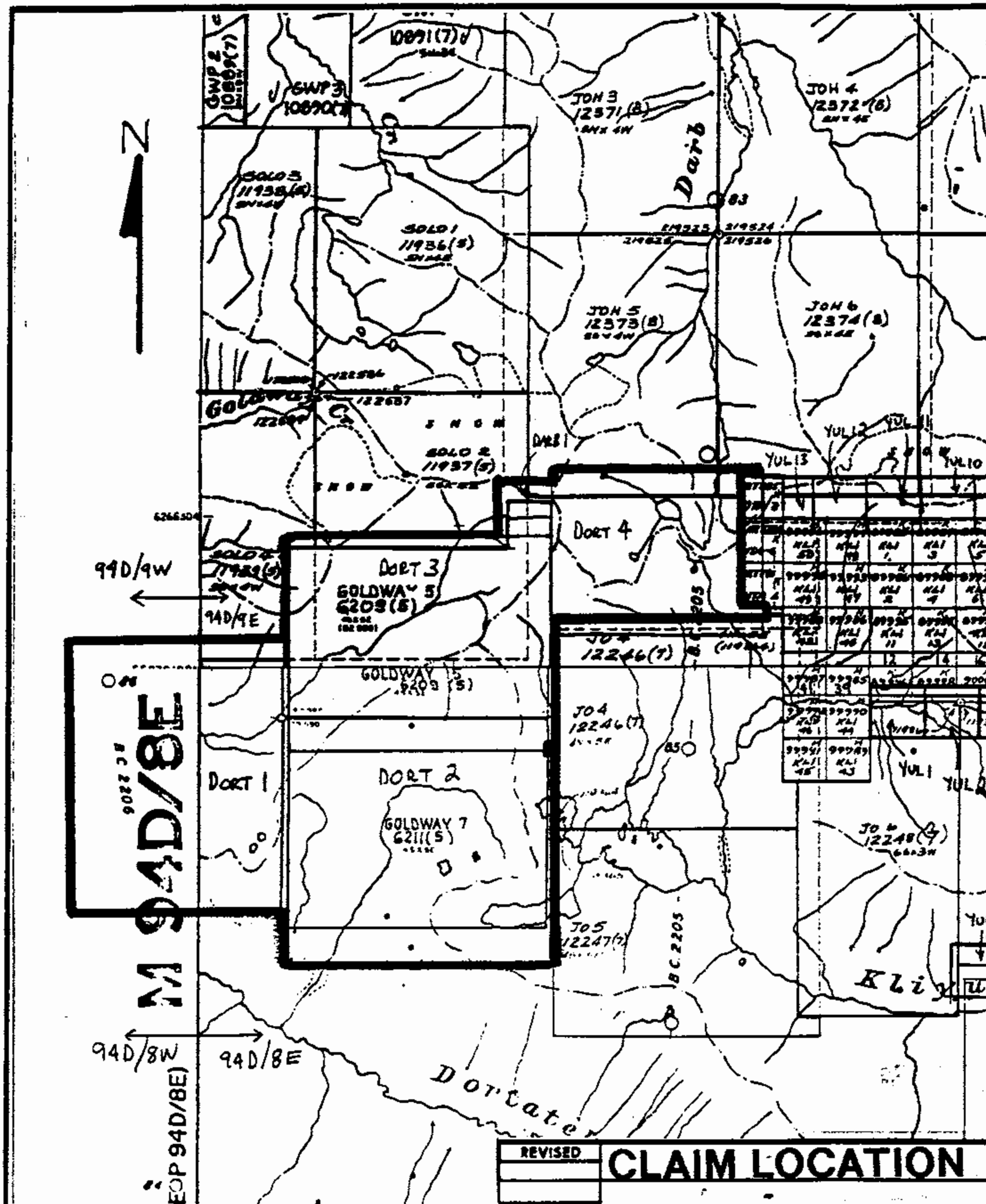
DRAWN BY: DOG

SCALE: 1:50,000

NORANDA EXPLORATION

OFFICE: VANCOUVER

VANCAL 11927



REVISED	CLAIM LOCATION
	GOLDWAY GROUP
PROJ. No.	SURVEY BY: DATE: FEB 1994
N.T.S. 94D/8+9	DRAWN BY: DGG SCALE: 1:50,000
DWG. No. 9	NORANDA EXPLORATION OFFICE: VANCOUVER

1. Favorable 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).

2. Known Cu-Fe-Au skarn occurrences exist on the property(ies) within the same calcareous stratigraphic horizon which remains 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 as one moves northward from the Hogem Batholith.

1.6 Survey Control

The surveying of the flagged and picketed grid lines was conducted with the aid of a compass and metric hipchain. A Geographical Positioning System unit was also used to better locate the baseline established by Placer Dome in 1990 which was used by Noranda for control of the Main grid. Other reconnaissance style grids (i.e. Recce, Darb Lake and Morraine grids) were labeled with reference to arbitrarily picked co-ordinates or the large grid covering the Joh property established by Reliance Geological in 1992.

1.7 Sampling

Soil sampling was conducted along metrically chained lines with samples taken every 50-100 meters apart 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. (as were all other samples).

Rock samples were collected as grabs or chips across certain widths whenever representative, altered and/or mineralized formations were encountered.

Test pits were initially dug at 50 meter intervals along 200 meter spaced lines and later tightened to 100 m spaced lines where warranted. Composite samples of mineralized/altered bedrock were collected from the bottom of the pits whereas soils were collected at different depths and/or at the bottom of the pits if bedrock was not encountered. Numbering of the test pit samples used an alpha numeric system denoting the property, the pit number and the depth in meters from where the sample was collected as shown below.

KLP-33-3.5
(Kliyul Pit - number - depth in meters)

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

A total of 433 soils, 107 rocks, 160 pit soils and 216 pit rocks and their accompanying analytical charges are being applied for assessment.

2.0 GEOLOGY

2.1 Regional

The Kliyul property is situated within the Intermontane Belt which is comprised of Upper Triassic to Lower Jurassic island arc volcanics, volcaniclastics and minor sediments of the Takla Group which hosts such Cu-Au porphyry deposits as Mt. Milligan and Kemess. The dominantly volcanic package in the Kliyul Creek area 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. At Kliyul the first two systems seem to be closely related to mineralization.

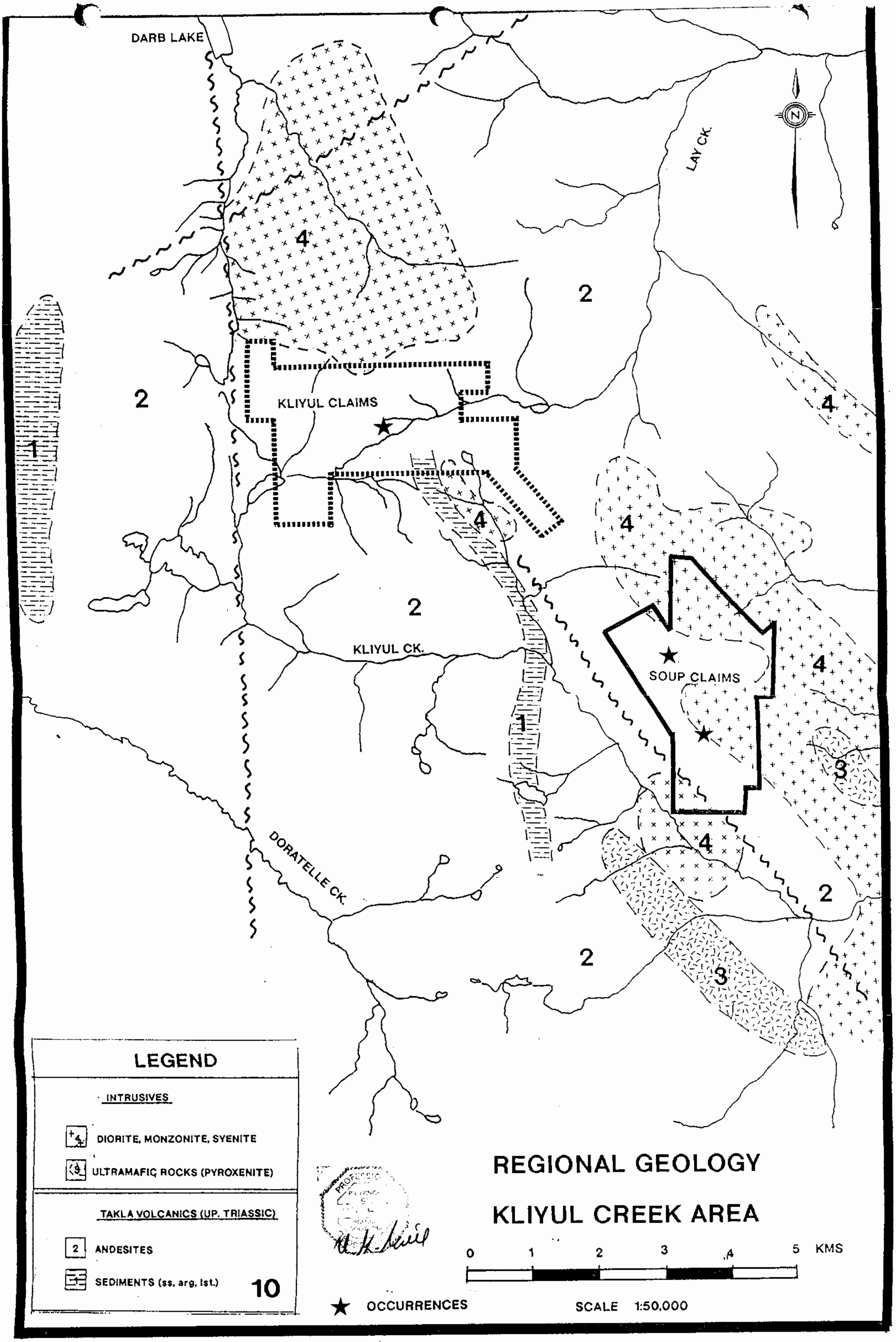
2.2 Detailed

Geological surveying of the Kliyul project area was conducted at 1:5,000 scale on the Main (Drawing 11)and Darb Lake (Drawing 12) grids using flagged, metrically chained grid lines and topographic bases for control. The resulting map (Drawing 11) for the Kliyul property is a combination of Noranda's 1992 and 1993 mapping and shows rock types, rock sample locations, test pit locations and drill sites.

2.3 Main & Morraine Grids

Mapping has confirmed that the survey area is underlain by a late Triassic aged volcano-sedimentary succession of Takla Group rocks intruded by Triassic-Jurassic aged gabbro/pyroxenites, listwanites, monzonites and diorites and Cretaceous aged quartz monzonites/diorites.

The southeast section of the property is dominated by massive feldspar +/- augite phyric andesitic tuffs and flows (Unit 1) which are intercalated with beds of fine grained laminated, white to grey limestones and agglomerates with a limy matrix containing large clasts (up to 30-40 cms) of limestone and volcanic derived material (Unit 3). Pyritic, dark grey, finely laminated sediments (sandstones, argillites, Unit 4) stratigraphically overly the section of impure limestones. Locally the sedimentary pile also contains sections of graphitic mudstones and shales (Unit 5). Bedding and foliation orientations suggest that the volcano-sedimentary package in this area of the grid strikes northwest and dips moderately northeast.


DARB LAKE
LAY CK.
N
KLIYUL CLAIMS
SOUP CLAIMS
KLIYUL CK.
DORATELLE CK.
1
2
3
4
LEGEND
INTRUSIVES
4 DIORITE, MONZONITE, SYENITE
3 ULTRAMAFIC ROCKS (PYROXENITE)
TAKLA VOLCANICS (UP. TRIASSIC)
2 ANDESITES
1 SEDIMENTS (ss, arg, lst.)
★ OCCURRENCES
REGIONAL GEOLOGY
KLIYUL CREEK AREA
0 1 2 3 4 5 KMS
SCALE 1:50,000

Unconformably overlying the above mentioned stratigraphy in the far southeast portion of the map area are flat lying, massive dark green augite porphyry flows and tuffs which are typically magnetic and well epidotized. Brecciation of this unit (#6) is though to be related to faulting and late cross-cutting dykes.

Similar stratigraphy is evidenced in the north-central portion of the grid area where the rocks are folded in a shallow syncline with an east-west axial trace. The southern limb strikes east-west with shallow dips to the north. Local north-south strikes, easterly dips within the sediments on this limb of the fold are due to moderate intrafolding. The northern limb of the syncline exhibits moderately steep dips to the southeast which are exposed on the north facing slopes of an east-west trending ridge underlain by augite porphyry flows.

In the west-central portion of the grid the predominantly volcanic rich sequence of undifferentiated andesitic tuffs and flows is observed with a basic east-west trending orientation and intercalated with a pervasively epidotized fragmental andesite which exhibits predominantly angular felsic intrusives clasts (Unit 2). Further west the stratigraphy begins to strike north-south with moderate to shallow east dips observed in the sedimentary package.

It is postulated that the sedimentary sequences within the Takla Group observed in the gridded area represent one distinct stratigraphic horizon. However, it is unclear whether the sequence of argillites/limestones to the south and west of the large northwest-southeast trending fault (marked by listwanite outcroppings) is connected below surface to the similar sedimentary package in the northern portion of the survey area by gentle, east-west trending folds or if the large east-west trending fault marked by the headwaters of west Kliyul Creek and Lay Creek and by patches of ferrocrete (or another unobserved fault to the north of the baseline) has caused vertical displacement between the two major sedimentary occurrences.

Intrusive rocks observed during the mapping programme consist of listwanites (Unit 8), gabbro/pyroxenites (Unit 9), altered monzonite/diorite (Unit 10), melanocratic diorites (Unit 11 including microdiorite dykes), leucocratic diorites (Unit 12), quartz monzonites (Unit 13) and fine to medium grained feldspar porphyry dykes (Unit 14).

The predominant trend of intrusive occurrences on the grid appears southeast to northwest. In the southeast portion a gabbro/pyroxenite intrusive occurs along a sheared/faulted contact between the sedimentary-volcanic package to the south and highly altered and foliated monzonite/diorite to the north. This ultramafic intrusive grades or alters to listwanite and continues northwest for 2500 meters before disappearing under glacial drift cover of the West Kliyul Creek valley and is again exposed in the far northwest portion of the map area. It is not known if the listwanite dyke crosscuts the east-west trending fault along the baseline or if the listwanite and altered monzonite/diorite intrusives have been left laterally displaced for approximately 1.5 kms in an east-west direction.

The most visually striking intrusive in the survey area consists of an intensely sheared, bleached, pyritic (5-10%), strongly to moderately sericite-quartz-clay altered and gossaned sheeted dyke complex ranging in composition from feldspar porphyritic diorite to feldspar +/- quartz porphyritic monzonite. This intrusive complex also strikes northwest and exists near Divide Lake through to the main skarn mineralization and area of drilling and test pitting. Other occurrences of Unit 10 can be observed as plugs/dykes on lines 2600E & 2800E/2500N and in the northwest corner of the grid along line 800E.

Field observations of contact relationships suggest that the next phase of intrusion consists of the massive, medium to coarsely crystalline, melanocratic diorite which outcrops as a plug on the east side of the headwaters of East Kliyul Creek between lines 4000E & 4800E, on line 3200E, 1800N, intruding the altered feldspar porphyritic monzonite/diorite, on lines 1000E & 1200E, 2400N, on the southwest portions of the Morraine grid and to the far east-central part of the grid on lines 5600-6000E/2400N. This unit stands out as a strong magnetic anomaly on the airborne vertical magnetic gradient map due to finely disseminated magnetite. The unit appears relatively fresh and uniform and averages 40% mafics (hornblende), 50% plagioclase and minor potassium feldspar. It is believed that this intrusive phase is responsible for the subsequent altering of the feldspar porphyry monzonite/diorite and introduction of the Fe-Cu-Au skarn mineralization.

Other smaller dykes and plugs of medium grained, leucocratic diorite and felsic, feldspar porphyry dykes occur throughout the property while to the northwest and northeast corners of the grid exist larger, younger, fresh looking quartz monzonites of probable Cretaceous age.

2.4 Mineralization

To date four styles of mineralization including skarn, intrusive hosted porphyry, quartz veining and shear zone related have been recognized through the 1993 mapping and testpitting programmes.

2.4.1 Skarn Mineralization

Mineralization on the Kliyul property is manifested as finely dissseminated, stringer type and clasts of magnetite and chalcopyrite hosted in chlorite-epidote-carbonate altered andesites and calcareous sediments (limy agglomerates). Although only one outcrop (excluding the test pitting) of the skarn is exposed it is believed that the volcanic-sedimentary sequence is dipping approximately 20° to the south/southwest through drilling information.

Results from a composite grab sample (185-E) taken across the exposed skarnified outcrop (2800E/2020N) in 1992 returned values of 1.4 gpt Au/15.0 m.

Results of the best values obtained from test pit rock samples are shown below (excluding quartz vein samples). These 15 samples outline a rough west-northwest trend which conforms to the trend of the sericite-clay altered and sheared feldspar porphyry monzonite and the subsequent medium grained melanocratic diorite (thought to be the source of the main skarn mineralization). Results of the test pit soil and rock sampling are shown on Drawing 14a and b. Also, refer to Appendix IV for testpit locations and rock descriptions.

TEST PIT	LOCATION EAST	NORTH	Cu (ppm)	Au (ppm)
KLP-152	2700	1940	2393	-
KLP-153	2700	1965	8948	2700
KLP-16	2800	1950	1926	1700
KLP-20	2800	1740	1228	-
KLP-176	2850	1800	1105	-
KLP-226	2850	1750	1491	-
KLP-144	2900	1850	2017	-
KLP-147	2900	1700	1695	-
KLP-24	3000	1750	15000	1200
KLP-124	3100	1850	2990	410
KLP-121	3100	1700	1110	-
KLP-96	3500	1800	1453	500
KLP-91	3700	1500	-	580
KLP-141	2900	2010	2463	-
KLP-26	3000	1850	1504	-

Other skarn mineralization found to date includes the area centered on lines 3300 and 3400E, 2150N where values returned up to 420 ppb Au and 1321 ppm Cu in pits 52 and 112; skarn float (382-L) at 3290E/2240N which returned 3728 ppm Cu, 810 ppb Au; 2925E/2650N, an area of skarnified magnetite rich volcanic tuff which ran 1200 ppb Au (394E) located near the volcanic-sedimentary sequence in the north-central portion of the grid; 1465E/2850N where pyrite-magnetite-epidote skarn exists in an andesitic host near the contact with the overlying augite porphyry with results of 2750 ppm Cu, 990 ppb Au.

The most significant mineralized skarn occurrence (excluding the main Kliyul zone) is centered on Line 2600E/3050N and is known as the Pacific Sugar Zone. Here melanocratic diorite intrudes the calcareous sediment-volcanic package near the top of the ridge in the north-central portion of the grid. Anomalous results on the weight percent magnetite and vertical magnetic gradient airborne maps are centered on this area and perhaps reflect a magnetite rich skarn zone covered by magnetic augite porphyry flows. This area remains the most prospective mineralized area found to date in the area. Best results returned from this zone are listed below.

SAMPLE	TYPE	WIDTH	Cu (ppm)	Au (ppb)
378-Q	Chip	1.5 m	6014	1000
379-R	Float	-	13000	4400
379-S	Float	-	794	4600
391-L	Grab	-	6381	1200
379-I	Float	-	9804	2000
1679-M	Float	-	8064	10,600
1679-Q	Float	-	13000	1730
1679-U	Float	-	8304	4100
1679-W	Float	-	13000	880

Most of the sampling of this occurrence was done from talus slopes below the outcroppings of mineralized skarn as steep bluffs and cliffs hampered a proper sampling program of the in-situ mineralization. Mineralization consists locally of massive magnetite with up to 20% coarse grained pyrite and up to 5% interstitial and disseminated chalcopyrite in melanocratic diorite hosts. The mineralization is also associated with quartz stringers and carbonitization. Chalcopyrite also occurs without magnetite within quartz and is also finely disseminated within the host skarn. Skarn mineralogy consists of medium to fine grained pyroxene, actinolite with strong epidotization and minor garnet. Azurite/malachite staining is common.

Well developed sulfide banding was observed within silicified, mineralized limestone exoskarn boulders. The style and composition of exoskarn mineralization is similar to that of the endoskarn.

2.4.2 Porphyry Style Mineralization

Several large gossanous areas occur throughout the map area and can be attributed to pyrite and silica, sericite and a combination of quartz-sericite-pyrite altered zones ranging in intensity from weak to intense and may represent different alteration zones associated with a series of smaller (or one large) porphyry hydrothermal cell(s). All gossanous zones appear to be related to large structural breaks (and corresponding alignment of intrusive rocks) which are delineated by the presence of incised gulleys, alignment of creeks and lakes, patches of ferrocrete and large dykes or dyke complexes. The main trends of these zones are east-west, north-south and east-southeast to west-northwest.

The largest of these altered zones is the quartz-sericite-kaolinite-pyrite (up to 15%) zone located in the southeast corner of the survey area which extends to the southeast onto the Bap mineral claims (Golden Rule Resources Ltd.). This area is predominantly underlain by foliated feldspar porphyry monzonite and andesitic tuffs and a large number of radiating micro-diorite dykes and precious to base metal rich quartz veins. Although minor copper mineralization (malachite, chalcopyrite) was observed in the area of the Bap claims the test pitting program between lines 2700E and 4200E south of baseline 2000N returned up to 1.2 gpt Au, and 1.5% Cu in pit KLP-24-1.5 with average geochemical results ranging from 200 t 400 ppb Au and less than 0.2% Cu.

To the north of the Lay Creek fault the highly sericite-clay-pyrite altered zone is exposed in the northwest corner of the grid where it begins to trend northerly.

The widespread alteration and occurrence of radiating dykes and quartz veins associated with the feldspar porphyry monzonite/diorite intrusive complex coupled with the low grade copper mineralization may represent the surface manifestation of a larger, buried intrusive body which may contain higher grade porphyry mineralization.

2.4.3 Quartz Vein Mineralization

Several quartz veins were exposed by historic trenching and the current test pitting programs. Quartz veins located between lines 4200E and 4000E, in the vicinity of the baseline (2000N), are less than 2.0 meters wide white bull quartz with traces of pyrite near sheared wallrock/vein contacts. These are generally barren with gold values less than 1.0 gram per tonne.

The most significant auriferous quartz veins in the survey area include those at the "Ginger B" Showing which are emplaced along northwest, north-south and east-west shears and fracture zones with up to 2.0 meter widths and an exposed strike length of approximately 200 meters. Wall rock of the veins is strongly pyritized and often carbonatized.

A grab sample of semi-massive pyrite adjacent to the Ginger quartz vein returned 25.0 gpt Au and 32.0 gpt Ag. Two 2.0 meter chip samples of oxidized pyritic andesite including 30-50 percent quartz returned 13.0, 3.8 gpt Au and 15.2, 5.2 gpt Ag respectively. Grab samples (Noranda 1992) of quartz vein exposed in old pits in the vicinity of the "Ginger B" showing returned gold values to 20.6 gpt Au. (See the area of test pits 173-175).

2.4.4 Shear Related Mineralization

A showing centered at 5760E/2410N is hosted by fine to medium grained diorite outcropping on the south bank of Lay Creek. The diorite is strongly propylitized and frequently sheared with 153°/90 oriented quartz-chlorite-carbonate veins and chalcopyrite impregnations and disseminations. Malachite/azurite fracture coatings are also common. The west end of the showing is marked by subcrop of pyritic gossan with no copper mineralization. Twelve 2.0 meter chip samples and one grab sample were collected from this area. Copper values ranged from 85 ppm to 3583 ppm with the best gold value being 440 ppb.

2.5 Darb Lake Grid

The Darb Lake Grid is underlain by a NW striking, moderately (30-50 deg) southwest dipping sequence of augite-feldspar porphyry andesite (Unit 7) to trachyandesite flows, tuffs (Unit 1) and fragmentals (Unit 2). Interbedded within the volcanics is a green-gray, fine grained, millimeter to centimeter bedded argillite to siltstone member (Unit 4) with dark gray shale (Unit 5) and rare limestone bands (Unit 3). Within the northern half of the grid (named the Camp Creek Basin), the volcanics/sediments are intruded by a medium to coarse grained diorite to gabbro stock (Unit 11) and related sills and dykes. These sills and dykes continue south of the stock, as N-S to NE-SW trending bodies of diorite to feldspar porphyry monzonite, intruding mainly sediments, and causing a hornfels aureole surrounding the intrusives. An ultra-mafic pyroxenite body (Units 9a and 9b) intrudes all in the north-west part of the grid.

Structure

The entire package displays 170-190 degree shears and faults with conjugate fault/shear splays trending NW-SE and ENE-WSW. Shears are particularly evident along the east contact of the Camp Ck Diorite with the sediments. Dips on either side of the main mountain ridge suggest a synclinal closure although the position of the axial plane has not been located.

Mineralization/Alteration

The sediments and the fine grained volcanics have been hornfelsed to varying degrees when in contact with the Camp Ck Diorite and its associated intrusives. Maximum alteration is calc-silicate facies. Where the sediments are slightly limy a pyroxene skarn containing pyrrhotite, pyrite +/- magnetite and chalcopyrite is developed in small (1-5 m), discontinuous pods.

Most of the hornfelsed rock contains 1-15% py +/- po which produces a prominent gossan zone. Several of these gossans are found within the Darb Lake Grid. Quartz, chlorite, epidote, magnetite, and carbonate (retrograde?) veins with a trace to 0.5% chalcopyrite are locally developed in the calc-silicate hornfelses. The Camp Ck Diorite often shows stockwork quartz-chlorite +/- epidote, and pyrite veining. Rarely found within these stockwork zones is trace to 2% chalcopyrite +/- magnetite or bornite. None of these mineralized zones show any size extent. The Camp Ck Diorite is generally propylitically altered.

Magnetite-quartz veins up to 15 cm wide were also noted at several localities in locally pyritic volcanic tuffs above the diorite. Several rusty zones are due to the weathering of mafic to ultramafic rock.

Considerable difficulty was experienced with magnetic compass deflection in the center part of the grid although the dominantly augite-porphyry andesite scree found there is not particularly magnetic. A hidden magnetic body is thus theorized of probable ultramafic affinity.

Of the 47 rocks collected on the Darb Lake grid only 6 returned values of over 500 ppb Au and /or greater than 1000 ppm Cu of which 3 were taken from small (up to 10 cm wide) quartz, chlorite, pyrite, magnetite veins. Of more interest are samples taken from quartz-pyrite stockworks within diorite (726-P) which ran 1315 ppm Cu and 920 ppb Au and another taken from a shear zone between calc-silicate altered volcanics-sediments and the diorite stock which returned 3462 ppm Cu and 440 ppb Au (727-A).

3.0 **TEST PITTING** (See Drawings 13, 14a, 14b)

The objective of the test pitting programme was to outline the surface or near surface extent of the skarn mineralization of the Kliyul main zone, to aid in the mapping of the local geology commonly buried in 4-10 meters of glacial drift in the valley floor and to explain other Cu-Au soil geochemical and magnetic anomalies previously untested. Besides the mineralization, alteration and geology attention was placed on delineating main structures which intersect in the vicinity of the Kliyul main zone and which may play an important role in localizing mineralization.

The main highlights of the 1993 test pitting programme are revealed below.

1. Mineralized bedrock and subcrop similar to the Kliyul main skarn zone was uncovered in an area measuring 400 x 350 centered on line 2800E/1900N and remains open to the southwest.

2. A new zone of skarn mineralization with magnetite, traces of disseminated chalcopyrite and malachite in altered diorite/chloritic andesite was uncovered in pits 112, 113, 50 and 101 centered on line 3350E/2150N.

3. Both of the skarn zones mentioned above correlate well with high magnetic susceptibility readings taken over the Kliyul Main grid.

4. A large zone (350 x 200) of ferrocrete located immediately southeast of the newly discovered skarn zone may in fact mark more mineralization at depth.

5. Test pitting of the center and northwest portions of the grid has identified moderate to intensely altered and sheared feldspar porphyry monzonites which have been in turn intruded by melanocratic, (+/- magnetite rich) diorites. The altered monzonitic intrusive carries elevated values of copper and gold and may reflect a larger mineralized porphyry cell which is in part structurally controlled.

6. Although rock geochemistry returned sporadic results from the test pitting (see Geology section) the basic WNW trend of the Main zone was defined. Also, the values from rocks taken at the newly discovered skarn showing and in part along the altered feldspar porphyry monzonite trace were anomalous.

7. Contouring (500 ppm Cu, 100 ppb Au) of the soils taken from the pits at the Main Kliyul zone reveals the same WNW trend beginning in the northwest with the skarn zone and trailing off to the southeast along the altered monzonite trace. Of interest is the >1000 ppm Cu/>200 ppb Au zone which is located between lines 2900E and 3250E/1900N which has not yet been drill tested.

4.0 SOIL GEOCHEMISTRY

The soil geochemical programme conducted over the Kliyul area essentially focused on airborne magnetic anomalies, favorable stratigraphy known to host skarn mineralization, monzodioritic intrusives, east-west structures which bisect the Kliyul property and areas of widely spaced anomalous geochemistry requiring infill sampling.

A detailed compilation of all historic soil geochem data as well as Noranda's sampling is shown on Figures 15, 16, 17 and 18. For the purpose of this report only the gold and copper values are illustrated and have been contoured at the 100 ppb and 300 ppm contour intervals respectively. Refer to Appendix II for ICP results with corresponding line and station co-ordinates.

4.1 Gold

Three main >100 ppb Au zones exist on the northern half of the mapsheet and all are situated within the Joh claims. The first is centered on lines 14200N through 12800N at approximately 11500E. This anomalous zone averages about 100 to 300 meters in width and strikes for 1900 meters in a northwest direction. Two smaller gold zones occur to the south and east of the first area and occur along a northeast trending ridge at approximately the same elevation ranges as the original northwest trending zone suggesting a flat lying source to the gold and a possible connection between the zones that is not readily apparent on initial inspection of the data. These zones both occur within Takla volcanics proximal to Cretaceous quartz monzonite stock and Jurassic aged diorites.

Further to the southeast on lines 11600N through 11000N at approximately 13200E lies a cluster of four other >100 ppb Au zones which may represent a single zone due to their proximity. As was the case in the zone mentioned above, these anomalies also occur at the 1700-1900 m elevation range supporting the idea of a relatively flat lying host rock.

Underlying geology is reported to be both Takla volcanics intruded by Cretaceous quartz monzonites as suggested by regional government mapping.

Smaller zones of geochemically anomalous gold also occur on the Darb Lake grid on lines 8800E, 8900E and 9000E which are underlain by limy sections of the Takla Group intruded by melanocratic diorites.

Referring to the southern mapsheet a large, circular, >100 ppb Au zone has been delineated wrapping around the east-west trending ridge which separates the Joh claims from the Kliyul property. (This anomaly is also depicted on Drawing 19 at 1:5,000 scale for comparison with the detailed geological interpretation). The halo effect created by this anomaly around a topographical high also suggests a flat lying host for gold mineralization in this area which is supported by geological mapping that reveals shallow dipping skarnified units just below the capping augite porphyry unit observed at the top of the east-west trending ridge.

Of interest is the relatively small area of anomalous gold geochemistry associated with the main Kliyul skarn zone located at line 2700E, 1900N. The lack of strong geochem in this area is likely due to a 4-10 m deep cover of glacial till covering the bottom of the valley at the headwaters of Lay and Kliyul creeks.

To the southeast of the above mentioned valley (which likely represents a large structural break and change in the main geological trend) the gold geochemistry follows a distinct northwest-southeast trend which reflects the trend of the multiphase intrusive complex, structural fabric and bedding orientation of the Soup skarn zones. The gold in soil zones here are open-ended in each of the areas gridded and most likely continue between these previously surveyed areas along the east banks of East Kliyul Creek.

4.2 <u>Copper</u>

Copper soil geochemical anomalies contoured at 300 ppm are illustrated on Drawings 17 and 18 at 1:10,000 scale and Drawings 20 and 22 at 1:5,000 for comparison with the detailed geological map.

Referring to the northern section of the map a large northwest trending 400-1200 meters wide, 4400 m long, open-ended copper soil anomaly is evident on the Joh claims mainly on the western side of the pronounced ridge dividing Darb and Lay creeks.

This large anomaly appears more contiguous and essentially covers the clusters of anomalous gold geochem seen in the area further supporting the idea of a large single host rather than several disjointed, smaller occurrences.

Copper geochem seen on the Darb Lake grid basically mimics the elevated gold occurrences associated with dioritic plugs intruding limy sections of the Takla Group.

Although not as widespread as the gold the anomalous copper values to the north and northeast and to the immediate west of the east-west trending ridge indicate a leakage from a mineralized zone situated beneath the augite porphyry caprock that cover the topographic highs in the area. This idea is also supported by the existence of in-situ skarn mineralization directly beneath the augite porphyry on the north side of the large east-west trending ridge (see Drawing 11.

Copper geochemical values in the vicinity of the main Kliyul skarn zones are, as in the case of the gold, less widespread and subdued due to the effect of overburden in the valley. On both the copper and gold maps the anomalous zones plot to the east of the known mineralization due to glacial transport from west to east.

Anomalous copper soil geochemistry to the south of the large east-west structural break (located in the Lay and Kliyul Creek valley) is evident only over the Soup claims as no copper geochem values were obtained from the gridded area immediately east of the headwaters of East Kliyul Creek. The anomaly over the Soup claims trends northwest-southeast and is open along strike and to the east. Values in this vicinity are obviously due in part to the documented skarn zones located just east of the baseline but anomalous results have also been returned uphill of the known mineralization with no obvious source as yet determined.

No anomalous values of either copper or gold were returned from the surveyed areas to the south of the main Kliyul property grid or from the area covered from the 800N baseline.

5.0 GEOPHYSICS

From October 20, 1993 to November 7, 1993 ground magnetic readings were collected on the Kliyul Creek, Joh and Croydon Creek claims. The work was contracted to Peter E. Walcott and Associates Ltd. and performed by Garry MacMillan, P. Charlie and M. Schulze (Noranda employee) using EDA OMNI & Magnetometers.

Three grids were surveyed and named the Kliyul Main Grid, Morraine Grid (Joh Property) and Recce Grid (Croydon Creek Property). Of the 60 line kilometers of readings proposed 59.43 were collected. Only a very small portion of the Morraine Grid was left unsurveyed due to equipment trouble and rough topography.

The work on the Main Grid provided infill lines to compliment the surveys performed in the early 80's by Placer Dome and by Kennco before them. Readings were collected every 12.5 m. The Kliyul Skarn zone now has effective 100 m line separation coverage. Repeat stations were collected on some of the Placer Dome lines and all three surveys leveled to the 1993 Norex base station.

In all 48.80 line kilometers of coverage were obtained (31 lines). Base line stations and end of line stations were located of the Trimble Ensign GPS unit. The accuracy, of the Ensign, when compared to NTS topographic features is ±30 m.

On the Morraine Grid 9.23 line kilometers were surveyed (10 lines) and on the Recce Grid 1.40 line kilometers (3 lines). The plots included in this report were produced with Geosoft softwares.

INTERPRETATION

The Kliyul Skarn Zone (L2600E to L3200E and 1600N to 2100N) is well delineated by a strong magnetic signature of up to 500 nT above background. This magnetic high correlates with an increase in magnetite in the skarn mineralization. This Main Zone is truncated on its north side by a regional E-W break. Southwest trending Listwanite dykes, Gabbros and Pyroxenites, abutting the south side of the Main Kliyul Skarn Zone also exhibit intense magnetic signatures. Immediately to the northeast of the Main Skarn Zone lies a second area of skarn mineralization characterized by several localized magnetic highs. The magnetic response displayed by the Main Zone indicates a shallow dip to the southwest.

North of the Kliyul Main Zone and coincident with a topographic high ridge a further area of intense magnetization is seen. The bulk of the lithologies mapped on this ridge are of the Takla Group. A good correlation is observed between intense magnetic highs and augite porphyry.

Discrete anomalies can also be identified where altered monzonite/diorite, undivided flows/tuffs and clastic metasediments have been mapped. Anomalous gold geochemistry shows a good coincidence with areas of intense magnetic highs. North of the ridge on, the Morraine Grid, two distinct magnetic zones have been identified. The southernmost shows an excellent correlation with melanocratic diorite. Little is known of the northernmost magnetic trend. This area should receive thorough geological mapping and complete soil coverage. The magnetic highs mapped by the three lines of the Recce Grid appear to be caused by melanocratic diorite and augite porphyry.

RECOMMENDATIONS

Ground magnetic surveys work well in defining the skarn mineralization as well as the intrusive rocks. The only available IP/Resistivity was collected by Kennco on east-west lines, separated by 800 feet, over the Kliyul Main Zone. Although not the ideal direction the IP/Resistivity does tend to map the skarn mineralization.

Ground magnetic coverage should be extended to connect the Morraine and Recce Grids to the Main Grid. In areas with coincident magnetic highs and anomalous geochemistry IP/Resistivity surveys should be performed. The aeromagnetic survey has identified several other magnetic highs. They should receive reconnaissance ground magnetic surveys as well as soil sampling and geological mapping.

6.0 CONCLUSIONS

The geological, geochemical, geophysical and trenching programmes conducted on the Kliyul area in 1993 combined with historically data compilation have led to the following conclusions.

1. Mapping has revealed that the stratigraphy of the project area includes a relatively flat lying sediment/limestone horizon which acts as host to the skarn mineralization and occurs directly beneath an unconformable augite porphyry flow/flow breccia unit.

2. Geochemical surveying and compilation of historic geochemical results has revealed 3 large coincident Cu-Au zones associated with Jura-Cretaceous aged diorites/monzonites within Takla Group rocks. These anomalous zones are also coincident with both vertical gradient magnetics and weight percent magnetite highs returned from the helicopter-borne magnetic, electromagnetic, radiometric and VLF-EM survey.

3. Trenching of the Kliyul property has revealed near surface skarn mineralization in the area of drilling on the Kliyul claims and to the east in an area of high magnetic susceptibility previously untested. Trenching results have also confirmed the northwest-southeast trend to the altered monzonite and subsequent diorite intrusions in the vicinity of the skarn zone and that some of the mineralization within the intrusives may be in part porphyry related.

4. Ground geophysical surveying has revealed an open-ended, high magnetic susceptibility anomaly to the north of the east-west trending ridge separating the Joh & Kliyul properties in the vicinity of known skarn mineralization.

Further follow-up work in the form of detailed mapping, sampling and ground magnetic surveying over the areas containing the 3 large Cu-Au soil enriched areas is highly recommended. Particular attention should be placed on stratigraphy during the mapping programme.

A diamond drilling programme is recommended to further delineate the Kliyul Main skarn zone to the southwest and in the area of newly discovered skarn mineralization centered at line 3400E, 2150N. Additional drilling of the other prospective zones should be considered when the remaining Stage II exploration work has been completed.

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 witb 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

SOIL GEOCHEMICAL RESULTS

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.:	KLIYUL - 148	**Geol.:** T.W.	**Date received:** JULY 16	**LAB CODE:** 9307-023
Material:	5 Silts, 402 Soils, 1 Moss & 29 Rx	**Sheet:** 1 of 10	**Date completed:** JULY 26	

Remarks: * Sample screened @ -35 MESH (0.5 mm)
¤ Organic, & 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	200E-000S	60	0.2	4.89	9	214	0.4	5	1.38	0.3	40	17	33	123	5.14	0.30	11	24	1.88	641	1	0.07	31	0.10	2	69	0.30	190	87
4	50	15	0.2	4.71	6	229	0.4	5	1.71	0.3	39	16	31	78	4.86	0.33	10	22	1.89	754	1	0.08	28	0.10	2	76	0.31	190	97
5	100	5	0.2	3.30	6	93	0.3	5	2.35	0.3	42	8	44	22	3.44	0.20	10	9	1.44	551	1	0.14	25	0.13	2	78	0.37	142	52
6	150	25	0.2	3.23	40	222	0.4	15	0.98	1.9	40	25	37	136	10.63	0.25	12	17	1.26	652	32	0.06	37	0.07	4	49	0.21	161	81
7	200E-200S	45	0.2	4.30	8	200	0.4	5	1.17	0.2	40	14	36	143	4.43	0.30	11	21	1.45	481	2	0.06	28	0.11	2	62	0.29	167	102
8	200E-250S	5	0.2	3.33	11	258	0.3	5	1.72	0.4	39	15	66	92	4.07	0.34	9	11	1.97	525	1	0.12	39	0.14	2	25	0.34	131	64
9	300	25	0.2	4.58	12	210	0.3	5	2.19	0.6	41	17	25	89	4.62	0.33	10	15	1.73	855	1	0.09	24	0.09	2	97	0.29	177	77
10	350	5	0.2	3.89	13	135	0.3	5	1.95	0.5	39	11	24	42	3.96	0.24	9	12	1.47	631	1	0.10	18	0.11	2	69	0.28	159	79
11	400	10	0.2	4.20	13	157	0.3	5	2.46	0.4	38	15	31	57	4.19	0.25	10	14	1.69	671	1	0.09	25	0.08	2	113	0.29	174	69
12	200E-450S	5	0.2	4.09	13	159	0.3	5	2.20	0.6	40	18	25	92	4.57	0.25	10	16	1.97	643	1	0.12	26	0.10	2	119	0.34	185	71
13	200E-500S	5	0.2	4.37	10	111	0.3	5	2.64	0.6	40	16	24	50	4.47	0.17	10	13	1.84	662	1	0.14	24	0.09	2	89	0.34	178	70
14	550	5	0.2	2.90	14	153	0.2	5	1.62	0.6	37	14	21	55	4.11	0.24	9	10	1.61	614	1	0.15	19	0.15	2	45	0.29	154	65
15	600	5	0.2	3.40	12	112	0.3	5	2.47	0.6	40	18	16	57	4.47	0.16	10	16	1.86	746	2	0.16	20	0.16	2	58	0.33	155	109
16	650	10	0.2	3.72	13	249	0.3	5	1.31	0.5	41	11	38	27	3.85	0.44	11	14	1.37	537	1	0.08	23	0.13	4	72	0.29	171	82
17	200E-700S	110	0.2	4.48	18	245	0.4	5	1.65	0.8	43	19	33	100	4.73	0.37	11	18	1.88	713	1	0.10	33	0.10	4	77	0.27	185	87
18	200E-750S	5	0.2	4.14	14	220	0.3	5	2.64	0.7	41	16	20	41	4.49	0.28	10	13	1.85	705	1	0.14	20	0.13	2	101	0.30	179	72
19	800	5	0.2	3.52	15	76	0.3	5	2.22	0.7	36	23	35	120	4.67	0.47	10	18	2.07	794	1	0.08	35	0.12	4	221	0.32	190	80
20	850	5	0.2	3.99	16	152	0.4	6	2.58	0.7	38	16	25	76	4.42	0.22	11	15	1.81	680	1	0.13	20	0.12	3	95	0.30	180	83
21	900	5	0.2	4.45	10	150	0.3	5	3.00	0.6	41	20	27	82	5.18	0.19	12	19	1.78	802	1	0.12	24	0.12	2	114	0.42	189	100
22	200E-950S	5	0.2	5.31	7	316	0.4	5	2.55	0.6	40	23	29	107	5.70	0.51	11	21	2.53	1125	1	0.12	33	0.12	2	120	0.30	217	91
23	200E-1000S	5	0.2	5.04	11	211	0.4	5	3.42	0.7	39	22	32	115	5.41	0.28	12	17	2.16	965	1	0.14	34	0.12	2	139	0.40	203	91
24	1050	10	0.2	4.97	11	162	0.9	5	3.29	0.8	55	22	38	114	5.89	0.22	16	23	1.94	1156	1	0.13	40	0.15	2	138	0.47	211	132
25	1100	5	0.2	5.19	9	200	0.4	5	4.11	0.6	36	24	18	90	5.65	0.24	11	17	1.84	973	1	0.08	29	0.13	2	178	0.44	231	90
26	1150	5	0.2	4.94	8	124	0.4	5	4.17	0.6	37	20	16	73	5.39	0.20	11	15	1.69	877	1	0.10	27	0.11	2	177	0.46	227	89
27	200E-1200S	5	0.2	4.31	9	175	0.3	5	3.51	0.5	38	18	15	48	5.11	0.16	10	13	1.30	1153	1	0.08	21	0.19	2	149	0.52	235	84
28	200E-1250S	5	0.2	5.14	13	176	0.4	5	4.18	0.8	38	23	39	100	5.66	0.28	11	20	1.87	1219	1	0.11	46	0.13	2	185	0.51	224	97
29	1300	5	0.2	3.57	13	137	0.2	5	3.35	0.6	39	12	41	21	3.91	0.21	11	8	1.29	550	1	0.09	28	0.13	2	137	0.49	186	58
30	1350	5	0.2	4.19	14	114	0.4	5	2.39	0.5	48	17	16	52	5.13	0.20	13	15	1.50	999	1	0.09	15	0.22	4	88	0.42	179	97
31	1400	5	0.2	3.61	6	177	0.3	5	2.25	1.0	36	20	39	69	4.86	0.25	10	15	1.95	803	1	0.14	30	0.20	2	75	0.31	166	103
32	200E-1450S	5	0.2	4.31	2	159	0.5	5	2.07	0.3	39	17	33	71	4.84	0.22	11	16	2.09	750	1	0.14	32	0.17	2	69	0.31	158	77
33	200E-1500S	30	0.2	4.77	2	157	0.5	5	2.41	0.2	41	17	29	79	5.08	0.27	11	15	1.99	782	1	0.16	28	0.15	2	94	0.34	174	87
34	200E-1550S	10	0.2	8.17	2	38	1.0	5	6.66	0.2	22	21	8	210	3.52	0.14	4	8	1.03	571	1	0.06	17	0.11	2	226	0.16	115	47
35	200E-50N	10	0.2	5.02	2	398	0.4	5	1.63	0.2	42	18	40	293	5.18	0.28	11	15	1.50	583	2	0.10	31	0.13	2	58	0.41	148	85
36	100	10	0.2	3.85	2	220	0.3	5	1.93	0.2	36	8	31	97	4.73	0.41	8	16	1.58	582	2	0.10	20	0.15	2	70	0.39	160	78
37	200E-150N	15	0.2	4.43	4	231	0.4	5	1.69	0.3	41	27	28	69	5.02	0.29	10	20	1.60	2312	11	0.08	24	0.18	2	73	0.27	176	93

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	200E-200N	25	0.2	4.98	13	184	0.4	5	1.38	0.3	38	15	45	61	4.80	0.25	9	20	1.70	622	2	0.06	34	0.09	2	67	0.28	176	82
39	250	35	0.2	4.94	2	203	0.4	5	1.34	0.2	39	13	32	70	4.75	0.31	10	17	1.68	646	1	0.07	25	0.12	2	67	0.27	169	83
40	300	20	0.2	4.73	6	188	0.3	5	1.57	0.2	38	13	40	50	4.64	0.31	9	15	1.55	613	1	0.07	25	0.11	2	80	0.26	180	73
41	350	40	0.2	4.58	15	240	0.3	5	1.15	0.5	37	17	44	75	4.80	0.35	12	19	1.62	666	1	0.05	32	0.09	2	76	0.24	193	73
42	200E-400N	80	0.2	3.86	8	206	0.3	5	1.47	0.4	39	15	43	86	4.43	0.31	11	16	1.56	534	1	0.06	30	0.09	2	82	0.24	177	70
43	200E-450N	15	0.2	4.44	8	199	0.4	5	1.62	0.5	41	15	38	60	4.96	0.25	12	20	1.88	608	1	0.06	28	0.13	2	85	0.32	194	80
44	500	30	0.2	4.83	10	206	0.4	5	1.31	0.5	40	20	43	107	5.52	0.30	12	23	2.48	698	1	0.05	44	0.11	2	71	0.32	217	89
45	550	10	0.2	3.27	9	230	0.3	5	1.72	0.4	45	13	20	74	4.06	0.24	12	27	1.69	615	2	0.08	24	0.09	2	90	0.34	173	85
46	600	85	0.2	5.00	5	260	0.3	5	2.34	0.6	40	18	32	109	5.08	0.32	10	18	2.03	878	1	0.10	35	0.09	5	96	0.30	188	87
47	200E-650N	50	0.2	4.62	9	189	0.3	5	1.50	0.5	40	18	47	98	4.88	0.27	10	18	2.15	639	1	0.06	42	0.09	2	86	0.27	205	79
48	200E-700N	35	0.2	4.98	15	202	0.4	5	1.49	0.7	42	24	51	114	5.47	0.30	12	19	2.37	859	1	0.06	51	0.08	3	87	0.28	219	83
51	750	130	0.2	4.06	15	225	0.4	5	1.04	0.4	37	15	48	50	5.52	0.36	11	18	1.37	528	1	0.06	30	0.11	5	65	0.23	181	74
52	850	25	0.2	3.56	6	114	0.2	5	2.24	0.3	36	10	142	67	4.07	0.17	7	11	0.95	390	1	0.05	68	0.08	2	89	0.34	120	53
53	900	165	0.2	4.59	13	221	0.4	5	1.35	0.4	41	17	29	88	5.30	0.35	11	19	1.58	759	1	0.09	23	0.10	2	62	0.27	175	74
54	200E-950N	10	0.2	4.10	9	191	0.3	5	1.20	0.3	39	11	30	30	4.46	0.32	10	15	1.17	464	1	0.06	17	0.12	3	70	0.28	179	58
55	200E-1000N	20	0.2	4.46	6	234	0.4	5	1.18	0.4	37	13	28	44	5.24	0.36	10	15	1.21	580	1	0.06	19	0.18	2	64	0.27	169	67
56	1050	10	0.2	4.86	8	241	0.3	5	1.96	0.2	41	13	26	68	5.32	0.25	9	14	1.58	634	1	0.08	21	0.15	2	99	0.32	191	60
57	1100	20	0.2	4.44	9	208	0.3	5	1.71	0.4	40	12	39	53	5.02	0.25	10	13	1.40	528	1	0.08	19	0.13	2	79	0.30	179	58
58	1150 •	5	0.2	4.15	5	121	0.4	5	1.54	0.4	47	11	140	47	3.86	0.26	14	14	1.87	477	1	0.12	66	0.22	2	51	0.26	114	53
59	200E-1200N	15	0.2	4.48	8	318	0.3	5	1.70	0.3	36	8	28	36	3.86	0.33	9	11	1.17	516	1	0.06	19	0.20	2	99	0.28	139	50
60	200E-1250N	40	0.2	3.50	10	195	0.3	5	0.48	0.4	25	9	32	42	3.67	0.29	8	17	0.94	779	1	0.04	15	0.17	3	37	0.19	132	72
61	1300	50	0.2	5.14	22	366	0.4	5	0.69	0.3	35	27	35	88	5.90	0.47	12	28	1.58	1205	1	0.07	31	0.10	5	57	0.19	191	100
62	1350	35	0.2	4.56	11	300	0.4	5	0.58	0.2	32	15	31	51	5.71	0.39	10	22	1.32	1086	1	0.06	22	0.14	4	46	0.21	182	88
63	1400	5	0.2	3.90	2	161	0.3	5	0.59	0.2	30	8	41	37	3.74	0.26	9	17	1.40	445	1	0.05	21	0.13	2	31	0.27	165	66
64	200E-1450N	5	0.2	3.70	2	299	0.2	5	1.49	0.2	38	5	5	40	3.63	0.40	9	10	1.01	586	1	0.02	5	0.13	2	77	0.33	142	47
65	200E-1500N	5	0.2	3.83	2	124	0.4	5	0.83	0.2	36	4	20	57	2.12	0.22	10	9	0.57	243	1	0.06	9	0.24	3	44	0.18	74	35
66	400E-2500N	10	0.2	4.96	4	211	0.3	5	1.76	0.3	43	15	23	73	5.08	0.31	11	16	1.69	885	1	0.10	20	0.11	2	74	0.25	162	99
67	2550	5	0.2	5.70	10	288	0.4	5	1.73	0.5	43	22	31	213	5.56	0.41	11	20	2.29	1169	1	0.10	40	0.11	2	75	0.29	183	126
68	2600	5	0.2	4.29	8	97	0.4	5	0.82	0.3	39	12	43	51	4.29	0.25	11	13	1.27	822	1	0.06	20	0.17	2	45	0.28	178	76
69	400E-2650N •	5	0.2	0.61	15	83	0.3	5	3.46	0.7	24	3	18	88	0.34	0.11	5	4	0.17	307	1	0.02	12	0.16	2	62	0.02	29	53
70	400E-2700N	5	0.2	6.01	18	207	0.6	5	1.13	0.5	33	17	42	180	4.48	1.04	11	17	1.57	1393	1	0.05	34	0.23	6	45	0.32	234	106
71	2750	5	0.2	5.38	7	144	0.4	5	1.25	0.4	38	28	49	253	5.83	0.23	11	20	2.40	1167	1	0.07	41	0.13	2	62	0.28	192	95
72	2850 •	5	0.2	3.35	2	29	0.4	5	0.62	0.4	26	43	20	175	6.00	0.07	7	7	0.88	1846	4	0.03	35	0.17	5	30	0.24	130	80
73	400E-2900N •	10	0.2	2.94	27	163	0.3	5	1.80	0.5	35	13	27	123	2.83	0.41	7	10	0.98	330	1	0.05	26	0.21	2	112	0.12	83	74
74	600W-100N	5	0.2	4.36	2	182	0.4	5	1.26	0.2	39	18	38	118	5.58	0.20	11	26	2.04	582	1	0.07	29	0.13	2	53	0.30	243	85
75	600W-150N	20	0.2	4.53	3	222	0.4	5	1.17	0.2	38	16	44	89	5.04	0.30	12	24	1.69	562	2	0.05	30	0.13	2	62	0.25	192	81
76	194 •	6500	0.2	4.30	5	224	0.3	5	1.56	0.2	40	19	51	63	5.15	0.35	11	20	2.14	784	1	0.06	37	0.06	2	88	0.23	202	89
77	200	30	0.2	4.49	10	259	0.4	5	1.05	0.3	35	18	38	79	5.16	0.38	11	22	1.86	827	1	0.06	35	0.07	2	62	0.24	183	93
78	250	10	0.2	4.45	10	172	0.3	5	1.59	0.2	39	18	54	92	5.05	0.22	11	19	2.21	593	1	0.04	42	0.07	2	94	0.30	199	81
79	600W-300N	55	0.2	4.78	12	243	0.5	5	1.04	0.2	39	17	48	81	5.25	0.36	11	18	1.66	634	1	0.05	34	0.10	2	66	0.23	190	83
80	600W-350N	20	0.2	4.55	11	225	0.4	5	1.29	0.3	40	19	61	97	4.90	0.36	11	18	1.82	713	1	0.06	38	0.08	2	76	0.24	195	77
81	400	15	0.2	4.64	4	149	0.5	5	0.85	0.3	54	14	57	69	4.71	0.26	20	20	1.23	495	1	0.05	28	0.18	3	54	0.25	150	78
82	450	30	0.2	4.18	2	218	0.3	5	0.65	0.2	31	13	71	40	4.75	0.37	10	15	1.54	1209	1	0.04	32	0.14	2	51	0.26	201	80
83	500	180	0.2	4.91	10	187	0.4	5	0.89	0.2	34	19	60	69	5.55	0.26	10	21	1.75	908	1	0.04	35	0.12	2	59	0.28	203	80
84	600W-550N	25	0.2	4.16	8	188	0.4	5	0.71	0.2	34	10	47	36	4.63	0.26	10	13	1.17	509	1	0.04	19	0.18	2	56	0.25	202	65

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	600W-600N	5	0.2	4.47	5	216	0.4	5	0.70	0.4	33	14	64	51	4.85	0.32	9	17	1.58	631	1	0.04	30	0.16	2	52	0.26	186	73
86	650	440	0.2	3.91	4	193	0.3	5	0.72	0.2	33	10	41	38	4.55	0.30	10	17	1.20	635	1	0.05	18	0.16	2	55	0.23	182	69
87	700	30	0.2	4.34	8	217	0.4	5	1.00	0.2	36	16	46	85	4.82	0.31	9	19	1.44	1026	1	0.05	30	0.13	2	65	0.22	177	79
88	750	530	0.2	4.20	8	221	0.4	5	0.89	0.2	36	13	45	60	4.58	0.34	10	18	1.32	521	1	0.06	24	0.13	2	58	0.23	178	71
89	600W-850N	15	0.2	3.49	6	120	0.5	5	0.82	0.5	32	17	39	60	5.22	0.13	9	30	1.98	1341	1	0.09	25	0.13	2	21	0.33	208	89
90	600W-900N	15	0.2	4.05	5	74	0.4	5	0.46	0.3	22	16	23	68	4.95	0.11	6	31	2.13	961	1	0.06	24	0.14	2	14	0.24	189	72
91	950	25	0.2	4.11	4	158	0.5	5	0.72	0.4	31	17	51	80	5.16	0.18	10	30	1.86	817	1	0.04	27	0.15	2	42	0.25	197	95
92	1000	20	0.2	4.55	5	273	0.4	5	1.15	0.4	37	21	36	125	5.50	0.36	10	33	2.06	964	1	0.09	32	0.08	2	52	0.24	197	93
93	1050	35	0.2	3.99	7	186	0.3	5	0.63	0.4	30	14	39	48	5.03	0.32	8	21	1.38	1242	1	0.05	20	0.17	2	42	0.22	176	99
94	600W-1100N	10	0.2	3.48	4	179	0.2	5	0.71	0.2	30	9	37	32	3.74	0.26	8	14	1.00	591	1	0.05	.15	0.19	2	38	0.26	150	63
95	600W-1150N	10	0.2	4.25	2	169	0.3	5	1.17	0.4	37	16	16	69	5.69	0.44	9	29	1.74	817	1	0.10	13	0.10	2	28	0.34	182	96
96	1200	25	0.2	3.95	8	156	0.3	5	0.56	0.5	31	16	20	79	5.69	0.33	9	33	1.85	858	1	0.06	14	0.10	2	17	0.29	167	105
97	1250	45	0.2	5.28	3	200	0.4	5	0.54	0.5	35	18	36	94	5.80	0.42	12	32	2.27	1015	1	0.09	32	0.12	2	20	0.28	206	114
98	1300	25	0.2	5.10	6	247	0.4	5	0.89	0.3	36	19	32	95	5.96	0.47	11	34	2.29	1442	1	0.10	34	0.12	2	30	0.27	198	125
101	600W-1350N	120	0.2	5.09	18	257	0.3	5	1.06	0.3	41	24	26	105	6.40	0.47	14	37	2.05	1727	1	0.22	32	0.10	2	46	0.22	179	98
102	600W-1400N	25	0.2	4.46	2	221	0.3	5	0.55	0.2	31	20	37	90	5.34	0.47	10	29	2.24	1182	1	0.06	33	0.09	2	25	0.19	177	103
103	1450	35	0.2	4.68	2	276	0.3	5	0.77	0.2	37	22	40	99	5.83	0.54	11	28	2.14	1440	1	0.11	38	0.09	2	29	0.21	195	107
104	600W-1482N	40	0.2	4.66	2	260	0.3	5	0.96	0.2	40	21	39	92	5.79	0.57	12	28	2.01	1327	1	0.14	41	0.09	2	39	0.24	185	100
105	600E-850N	45	0.2	4.26	5	219	0.4	5	1.40	0.2	41	16	39	40	5.30	0.31	11	22	1.48	526	2	0.06	24	0.12	2	78	0.26	199	77
106	600E-900N	100	0.2	4.86	2	126	0.5	5	1.74	0.2	41	16	25	153	4.69	0.20	10	19	1.44	673	1	0.07	19	0.12	2	84	0.28	154	76
107	600E-950N	105	0.2	3.85	4	182	0.4	5	1.35	0.2	38	15	32	98	5.46	0.26	9	16	1.37	739	2	0.07	20	0.16	2	67	0.30	185	78
108	1000	20	0.2	4.19	2	168	0.3	5	1.56	0.2	41	9	40	33	4.09	0.26	10	15	1.31	544	1	0.07	25	0.15	2	81	0.32	157	72
109	1050	130	0.2	4.03	3	234	0.5	5	1.50	0.2	45	11	37	39	4.64	0.34	12	19	1.30	497	2	0.07	21	0.13	2	77	0.25	152	80
110	1100	25	0.2	5.38	2	183	0.5	5	1.87	0.2	44	18	39	81	5.11	0.32	10	18	1.81	823	1	0.09	29	0.10	2	95	0.28	165	91
111	600E-1150N	80	0.2	4.14	16	224	0.4	5	1.62	0.6	50	18	34	127	5.42	0.30	15	24	1.44	599	1	0.07	26	0.11	4	84	0.24	171	99
112	600E-1200N •	160	0.2	4.62	15	279	0.4	5	0.83	0.4	39	19	32	76	5.04	0.36	11	22	1.40	1006	1	0.07	25	0.10	3	56	0.17	161	86
113	1250	160	0.2	4.34	11	278	0.4	5	0.76	0.2	38	14	38	50	4.81	0.39	11	21	1.32	526	1	0.07	23	0.11	4	57	0.17	173	75
114	1300	75	0.2	4.12	12	269	0.4	5	0.80	0.4	39	13	38	40	4.58	0.38	11	19	1.22	619	1	0.06	21	0.12	5	58	0.19	170	67
115	1350	50	0.2	4.70	10	193	0.4	5	1.25	0.3	43	13	35	88	4.93	0.27	12	18	1.45	637	1	0.06	23	0.19	4	90	0.26	175	85
116	600E-1400N	70	0.2	4.44	12	259	0.4	5	1.13	0.5	43	21	37	108	5.14	0.36	12	18	1.44	1197	1	0.07	26	0.13	2	75	0.24	177	87
117	600E-1450N	40	0.2	4.79	7	316	0.4	5	0.87	0.4	39	14	48	59	4.89	0.47	12	23	1.53	505	1	0.07	28	0.11	4	60	0.20	187	88
118	1500	35	0.2	4.85	7	268	0.4	5	0.79	0.4	34	13	40	61	4.81	0.39	11	20	1.33	822	2	0.06	23	0.15	5	50	0.22	169	98
119	1550	20	0.2	4.62	5	164	0.4	5	0.55	0.3	32	9	32	51	3.99	0.24	10	14	0.84	854	1	0.05	13	0.18	6	33	0.21	129	64
120	1600	35	0.2	5.35	9	274	0.5	5	0.80	0.6	32	20	35	104	5.18	0.34	11	23	1.62	1057	1	0.05	30	0.12	9	46	0.22	170	87
121	600E-1650N	1630	0.2	4.38	6	202	0.3	5	0.64	0.4	33	11	35	58	4.37	0.24	10	16	0.94	978	2	0.04	15	0.19	2	41	0.23	143	74
122	600E-1700N	20	0.2	4.88	5	273	0.4	5	0.82	0.2	33	17	30	79	5.27	0.29	9	24	1.57	1266	1	0.06	24	0.16	2	47	0.26	185	91
123	1750	40	0.2	4.83	7	312	0.4	5	0.76	0.2	34	19	33	81	5.58	0.40	10	25	1.73	1297	1	0.06	27	0.13	2	50	0.24	199	97
124	1800 •	100	0.2	4.49	16	394	0.4	5	0.76	0.2	31	19	37	82	5.42	0.57	9	24	1.80	874	1	0.08	31	0.08	2	46	0.14	196	95
125	1850	15	0.2	5.92	2	243	0.4	5	1.07	0.2	38	15	42	83	5.44	0.34	9	19	1.47	777	1	0.06	24	0.18	2	63	0.27	168	103
126	600E-1900N	150	0.2	5.21	2	219	0.5	5	0.85	0.2	43	12	43	52	5.15	0.37	13	21	1.52	624	1	0.08	25	0.14	2	48	0.26	158	96
127	600E-1950N	130	0.2	4.71	19	447	0.5	5	0.65	0.2	34	22	45	93	5.91	0.53	10	23	1.70	919	1	0.07	34	0.09	5	52	0.17	201	103
128	2000	40	0.2	4.76	2	206	0.4	5	1.47	0.3	46	18	31	82	4.88	0.41	12	21	1.83	838	1	0.09	28	0.10	2	61	0.22	161	98
129	2050	20	0.2	4.69	2	164	0.5	5	1.14	0.2	39	12	37	54	4.37	0.27	10	15	1.21	621	1	0.07	18	0.14	2	54	0.27	146	69
130	2100	10	0.2	5.09	2	157	0.3	5	1.07	0.2	37	11	34	58	4.36	0.22	8	14	1.25	645	1	0.06	18	0.14	2	46	0.22	130	76
131	600E-2150N	20	0.2	5.13	2	208	0.4	5	1.31	0.3	44	15	40	73	5.02	0.36	12	21	1.62	760	2	0.09	25	0.11	2	68	0.26	162	103

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	600E-2200N	40	0.2	5.57	2	271	0.5	5	1.32	0.2	48	20	37	171	5.29	0.46	13	22	1.83	927	2	0.11	35	0.09	2	73	0.22	165	111
133	2250	25	0.2	5.21	2	235	0.4	5	1.20	0.2	43	11	39	117	4.59	0.49	12	19	1.41	608	2	0.11	29	0.15	2	78	0.24	153	92
134	2300	155	0.2	6.50	6	453	0.6	5	0.78	0.4	40	36	14	747	8.56	0.86	13	24	1.66	2109	17	0.32	25	0.16	7	105	0.10	154	179
135	2350	140	0.2	6.34	10	471	0.5	7	0.71	0.7	42	52	16	714	8.56	0.87	14	25	1.68	2869	15	0.31	34	0.16	9	98	0.10	153	196
136	600E-2400N	105	0.2	5.33	5	401	0.7	5	0.71	0.9	40	43	106	490	7.06	0.75	14	33	2.93	2223	5	0.29	154	0.17	2	88	0.09	130	164
137	600E-2450N	10	0.2	4.69	15	173	0.4	5	1.36	0.3	39	14	54	54	4.68	0.17	9	13	1.08	1776	1	0.04	24	0.21	2	75	0.34	158	82
138	600E-2500N	10	0.2	5.47	7	148	0.4	5	1.32	0.2	43	20	62	77	5.96	0.31	11	16	1.84	1184	1	0.06	37	0.20	2	100	0.39	184	112
139	800N-200E	25	0.2	3.96	3	263	0.3	5	2.40	0.3	38	26	62	472	5.77	0.33	8	23	2.13	851	6	0.06	49	0.09	2	86	0.45	237	102
140	600E	30	0.2	4.38	8	209	0.5	5	1.48	0.2	43	20	51	110	5.15	0.31	11	17	1.44	794	1	0.06	30	0.15	2	81	0.24	173	68
141	800N-200W	30	0.2	4.34	2	199	0.8	5	0.69	0.2	45	12	27	79	5.44	0.27	19	30	1.53	618	1	0.06	17	0.14	3	36	0.29	202	76
142	800N-600W	25	0.2	5.25	21	167	0.5	5	0.88	0.2	35	17	43	83	5.56	0.22	10	23	1.47	683	1	0.04	28	0.11	2	57	0.24	171	80
143	1000	20	0.2	4.71	2	286	0.3	5	0.92	0.3	34	18	24	102	5.49	0.38	9	41	2.24	1430	1	0.06	25	0.10	2	39	0.25	175	129
144	1400	15	0.2	4.37	2	214	0.5	5	0.70	0.2	36	15	41	61	5.20	0.25	12	29	1.64	511	1	0.04	26	0.12	2	47	0.28	195	100
145	1800	25	0.2	4.36	4	414	0.4	5	1.36	0.2	39	16	45	65	5.24	0.47	11	31	1.65	675	1	0.06	29	0.17	2	63	0.24	197	130
146	800N-2200W	240	0.6	4.87	8	549	0.5	7	0.55	0.2	35	19	37	117	6.19	0.72	12	31	1.42	852	1	0.07	30	0.15	5	57	0.17	230	101
147	800N-2400W	170	0.8	4.41	24	670	0.8	5	0.29	0.3	32	23	52	119	6.11	0.76	11	23	1.13	1167	1	0.08	38	0.10	9	47	0.13	224	109
148	800N-2500W	70	0.2	2.99	25	472	1.4	6	0.22	0.4	30	20	34	83	5.89	0.48	11	12	0.47	2105	1	0.05	21	0.14	10	86	0.08	156	115
151	1400E-50S	5	0.2	4.89	3	113	0.4	5	1.65	0.3	35	25	35	140	6.23	0.19	9	20	2.76	1117	1	0.03	38	0.11	2	51	0.48	254	125
152	100	5	0.2	4.89	12	108	0.4	5	1.95	0.3	41	25	60	210	5.43	0.18	10	18	2.38	1394	1	0.03	49	0.13	2	76	0.39	195	97
153	1400E-150S	5	0.2	4.89	2	110	0.3	5	2.38	0.2	38	19	41	55	5.25	0.16	10	14	1.89	1689	1	0.03	29	0.20	2	110	0.46	210	90
154	1400E-200S	5	0.2	5.80	2	81	0.3	5	2.25	0.2	30	32	183	148	6.03	0.09	6	18	2.65	1586	1	0.03	96	0.15	2	67	0.49	208	117
155	250	20	0.2	6.67	2	116	0.4	5	2.42	0.3	34	33	131	188	6.29	0.19	8	18	3.40	1576	1	0.03	105	0.10	2	87	0.48	211	106
156	300	15	0.2	5.27	2	110	0.5	5	2.45	0.2	39	17	66	108	5.31	0.20	10	16	1.89	897	1	0.04	43	0.18	2	91	0.41	191	93
157	350	5	0.2	5.61	2	171	0.4	5	1.90	0.2	41	21	43	91	5.06	0.27	10	15	1.90	919	1	0.05	40	0.10	2	99	0.36	177	83
158	1400E-400S	5	0.2	5.51	11	122	0.4	5	2.61	0.2	41	18	50	79	4.97	0.23	9	15	1.92	806	1	0.04	41	0.10	2	99	0.37	176	101
159	1400E-450S	20	0.2	4.87	35	120	0.5	5	2.35	0.2	40	16	47	72	4.68	0.23	10	15	1.67	914	1	0.04	33	0.20	2	86	0.33	166	108
160	500	5	0.2	4.83	14	152	0.4	5	2.17	0.2	40	15	49	75	4.78	0.25	9	15	1.64	830	1	0.04	36	0.16	2	91	0.33	169	80
161	550	5	0.2	4.62	77	118	0.5	5	2.57	0.4	44	13	39	73	4.49	0.22	9	14	1.09	596	1	0.04	24	0.16	2	98	0.31	138	91
162	600	5	0.2	5.81	37	69	0.4	5	2.75	0.4	37	20	63	78	6.14	0.10	8	14	1.80	1155	2	0.03	55	0.13	2	99	0.41	145	121
163	1400E-650S	5	0.2	4.71	3	82	0.4	5	2.17	0.7	40	58	22	103	7.63	0.09	9	8	0.67	1816	4	0.03	45	0.24	2	76	0.31	126	147
164	1400E-700S	10	0.2	5.36	7	146	0.3	5	2.51	0.4	40	15	29	91	5.34	0.23	10	13	1.43	804	2	0.04	35	0.13	2	115	0.38	174	113
165	750	5	0.2	4.69	23	138	0.3	5	2.15	0.7	39	23	38	79	4.68	0.25	9	12	1.59	1381	2	0.05	28	0.15	2	112	0.23	158	106
166	800	5	0.4	5.43	16	119	0.3	5	1.34	0.6	35	20	42	97	5.65	0.18	7	13	1.54	829	1	0.07	29	0.14	2	108	0.24	176	96
167	850	5	0.2	5.34	3	107	0.3	5	1.59	0.3	40	10	36	34	4.28	0.19	9	13	1.35	663	1	0.06	20	0.12	2	100	0.36	181	84
168	1400E-900S	5	0.2	5.75	26	136	0.3	5	1.74	0.5	39	25	39	139	5.69	0.29	10	16	2.10	1098	1	0.06	42	0.09	2	132	0.23	192	104
169	1400E-950S	5	0.2	5.79	10	131	0.3	5	1.82	0.3	39	15	37	73	4.97	0.27	9	15	1.89	623	1	0.07	30	0.12	2	119	0.25	179	94
170	1000	5	0.2	5.58	2	95	0.2	5	2.47	0.3	42	12	31	33	5.11	0.19	9	11	1.47	641	1	0.06	21	0.07	2	107	0.44	238	71
171	1050	10	0.2	4.69	2	90	0.3	5	2.73	0.2	38	6	27	19	4.16	0.17	9	9	0.96	492	1	0.04	14	0.10	2	118	0.67	287	52
172	1100	5	0.2	5.77	2	88	0.4	5	2.58	0.2	40	19	34	56	4.93	0.15	10	13	1.72	960	1	0.06	27	0.08	2	103	0.40	199	74
173	1400E-1150S	5	0.2	5.69	2	81	0.3	5	2.60	0.2	37	19	32	102	5.50	0.13	8	12	2.05	920	1	0.06	30	0.08	2	98	0.45	220	75
174	1400E-000N	5	0.2	5.11	2	124	0.4	5	1.48	0.2	41	18	34	100	5.99	0.19	10	17	1.89	871	2	0.05	36	0.14	2	62	0.47	201	99
175	50	5	0.2	5.57	2	83	0.3	5	1.88	0.2	36	28	155	104	6.03	0.11	9	20	3.06	1084	1	0.04	117	0.12	2	81	0.46	219	107
176	100	5	0.2	4.88	4	104	0.4	5	2.06	0.3	54	20	81	109	5.11	0.15	18	18	2.67	824	1	0.04	64	0.16	2	114	0.42	176	99
177	150	5	0.2	5.76	2	166	0.4	5	1.97	0.2	44	22	41	119	5.72	0.29	11	18	2.24	1104	1	0.06	43	0.14	2	110	0.42	205	106
178	1400E-200N	5	0.2	5.75	2	194	0.4	5	1.71	0.2	36	22	58	110	5.72	0.30	9	16	2.38	1197	1	0.05	56	0.15	2	102	0.40	197	91

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
179	1400E-250N	5	0.2	5.92	2	204	0.3	5	1.32	0.2	34	15	45	78	5.62	0.32	9	15	1.77	752	1	0.06	31	0.13	2	79	0.34	179	88
180	300	5	0.2	5.40	3	201	0.4	5	1.86	0.2	39	18	33	87	5.22	0.36	11	15	1.84	925	1	0.07	31	0.12	2	106	0.35	188	93
181	350	5	0.2	5.14	2	197	0.3	5	1.61	0.2	40	19	42	72	5.18	0.32	11	17	1.98	1004	1	0.06	35	0.13	2	95	0.36	186	96
182	400	5	0.2	4.42	2	168	0.3	5	1.50	0.2	40	12	40	50	4.71	0.25	10	17	1.75	716	1	0.04	29	0.11	2	71	0.40	184	80
183	1400E-450N	10	0.2	4.86	2	154	0.3	5	2.02	0.2	40	12	29	46	4.87	0.24	9	14	1.80	642	1	0.05	22	0.12	2	104	0.44	210	75
184	1400E-500N	5	0.2	6.83	2	233	0.4	5	2.99	0.2	37	31	70	242	6.25	0.20	8	22	3.30	1860	1	0.03	56	0.14	2	202	0.53	269	122
185	550	10	0.2	6.03	2	102	0.4	5	1.32	0.2	35	26	90	105	6.08	0.15	8	23	3.17	969	1	0.04	62	0.10	2	58	0.48	231	84
186	600	5	0.2	5.29	11	284	0.9	5	1.41	0.2	46	9	56	126	4.09	0.39	11	21	1.00	497	1	0.05	26	0.21	3	99	0.37	136	118
187	650	5	0.2	4.22	2	117	0.7	5	0.62	0.2	44	7	33	42	4.03	0.18	15	14	0.66	415	2	0.08	13	0.13	4	44	0.26	110	73
188	1400E-700N	5	0.2	5.23	2	112	0.3	5	2.16	0.2	37	11	29	47	4.56	0.16	9	13	1.75	655	2	0.04	21	0.13	2	95	0.46	217	74
189	1400E-750N	5	0.2	5.82	2	93	0.4	5	2.08	0.4	37	20	45	85	5.58	0.14	10	18	2.36	1071	1	0.03	32	0.16	2	89	0.50	262	89
190	800	50	0.2	5.12	2	219	0.4	5	1.97	0.2	36	21	38	95	5.48	0.31	10	17	2.06	1088	1	0.08	32	0.12	2	102	0.33	202	95
191	850	5	0.2	4.44	2	153	0.3	5	1.61	0.3	39	17	48	100	4.90	0.20	11	18	1.91	727	1	0.05	25	0.11	2	69	0.36	197	82
192	900	75	0.2	4.45	6	142	0.4	5	1.61	0.3	43	15	37	56	4.40	0.23	12	17	1.62	561	1	0.07	29	0.10	2	89	0.26	168	86
193	1400E-950N	15	0.2	4.03	5	183	0.3	5	1.55	0.3	40	12	35	33	4.33	0.32	11	15	1.39	727	1	0.07	22	0.14	3	74	0.26	163	103
194	1400E-1000N	35	0.2	4.53	2	143	0.4	5	1.55	0.2	41	16	31	68	4.85	0.23	11	17	1.91	637	1	0.09	28	0.11	2	72	0.30	165	94
195	1050	20	0.2	4.74	13	161	0.4	5	1.93	0.3	41	16	35	138	4.60	0.29	10	15	1.96	783	1	0.07	37	0.11	2	100	0.29	166	147
196	1100	60	0.2	4.81	8	176	0.4	5	2.02	0.4	48	19	29	99	4.84	0.35	11	14	1.81	899	1	0.08	33	0.10	2	99	0.28	170	99
197	1150	25	0.2	4.37	5	175	0.3	5	1.53	0.3	43	9	32	41	3.78	0.30	11	13	1.22	493	1	0.06	17	0.14	4	89	0.27	153	71
198	1400E-1200N	65	0.2	3.93	7	218	0.4	5	1.20	0.3	40	13	38	43	4.61	0.35	11	15	1.32	507	1	0.06	24	0.12	4	72	0.23	173	72
201	1400E-1250N	30	0.2	4.24	3	195	0.4	5	1.19	0.2	42	13	44	60	4.26	0.29	12	15	1.29	451	1	0.06	22	0.13	4	71	0.24	156	67
202	1300	20	0.2	4.83	2	151	0.4	5	1.32	0.2	36	12	50	60	4.21	0.25	9	16	1.47	521	1	0.05	27	0.13	2	69	0.28	160	74
203	1400E-1350N	40	0.2	5.24	2	174	0.3	5	1.39	0.3	37	11	46	68	4.75	0.35	9	14	1.42	579	2	0.07	26	0.14	2	79	0.27	159	82
204	1400W=100S	45	0.2	5.12	9	247	0.4	5	1.16	0.3	38	16	27	87	5.09	0.33	10	19	1.52	785	1	0.06	23	0.10	2	60	0.27	170	82
205	1400W-150S	30	0.2	4.48	21	204	0.3	5	1.49	0.3	40	20	34	97	5.00	0.30	11	16	1.62	972	1	0.06	32	0.09	2	80	0.24	180	78
206	1400W-200S	15	0.2	4.98	6	198	0.3	5	1.15	0.3	38	13	34	52	5.37	0.33	10	24	1.55	599	1	0.05	23	0.12	2	64	0.26	206	96
207	250	10	0.2	5.05	5	231	0.4	5	1.68	0.2	41	16	32	91	4.54	0.31	10	16	1.51	733	1	0.07	27	0.11	2	78	0.23	164	78
208	300	15	0.2	4.88	3	174	0.4	5	1.53	0.3	42	13	27	67	5.02	0.27	10	21	1.46	647	2	0.07	22	0.09	4	82	0.30	172	78
209	350	50	0.2	4.78	2	256	0.5	5	1.89	0.3	45	12	28	60	4.56	0.27	10	16	1.34	632	1	0.07	24	0.10	2	87	0.31	159	74
210	1400W-400S	15	0.2	6.23	28	669	0.4	5	0.80	0.6	35	24	70	154	5.94	0.55	11	27	2.38	872	1	0.16	56	0.08	3	41	0.28	275	124
211	1400W-450S	5	0.4	5.26	2	555	0.3	5	0.96	0.4	36	23	57	94	5.60	0.56	12	42	2.64	1198	1	0.17	40	0.06	2	74	0.28	254	86
212	500	20	0.2	4.82	2	196	0.3	5	1.75	0.2	41	12	32	49	4.56	0.28	11	13	1.46	684	1	0.07	18	0.10	2	83	0.31	168	69
213	550	10	0.2	4.54	5	158	0.3	5	1.07	0.2	37	20	54	108	5.09	0.17	10	24	1.87	769	2	0.05	38	0.09	2	44	0.27	238	85
214	600	10	0.2	4.77	2	173	0.3	5	1.01	0.2	36	9	37	45	4.69	0.14	10	24	1.24	476	1	0.05	18	0.10	2	49	0.29	168	63
215	1400W-650S	45	0.4	4.20	2	708	0.3	5	0.87	0.4	40	31	57	253	6.64	0.48	14	37	2.74	1927	1	0.05	61	0.07	2	27	0.35	289	112
216	1400W-700S	10	0.2	4.37	2	139	0.3	5	2.75	0.2	43	16	30	57	4.55	0.14	10	13	1.81	703	1	0.14	25	0.07	2	84	0.29	175	61
217	750	10	0.2	4.76	2	127	0.3	5	2.46	0.2	42	12	31	28	4.64	0.20	10	13	1.64	630	1	0.10	22	0.08	2	99	0.32	181	66
218	800	5	0.2	4.95	2	122	0.3	5	2.28	0.2	42	15	35	51	4.63	0.19	10	14	1.76	723	1	0.11	26	0.10	2	80	0.32	176	71
219	850	5	0.2	4.27	2	131	0.3	5	2.39	0.2	45	15	31	38	4.84	0.17	11	20	2.00	683	1	0.11	25	0.10	2	81	0.33	180	93
220	1400W-900S	10	0.2	4.38	2	140	0.3	5	2.01	0.2	42	15	40	44	5.04	0.20	10	17	1.78	757	1	0.10	26	0.10	2	64	0.31	193	73
221	1400W-50N	15	0.2	4.50	5	208	0.5	5	1.02	0.2	43	17	52	71	5.15	0.26	12	25	1.78	644	1	0.05	32	0.09	2	64	0.27	190	77
222	100	80	0.2	4.86	6	190	0.4	5	1.15	0.2	36	20	44	80	4.98	0.28	10	18	1.59	817	1	0.05	31	0.10	2	73	0.25	186	74
223	200	590	0.2	4.60	4	248	0.4	5	1.24	0.2	35	15	54	65	5.55	0.21	10	23	1.69	562	1	0.04	33	0.12	2	73	0.29	197	78
224	250	30	0.6	4.66	3	520	0.7	5	0.84	0.2	43	21	55	184	7.37	0.52	17	27	0.95	1386	3	0.03	30	0.24	3	34	0.20	234	105
225	1400W-300N	10	0.2	4.32	2	178	0.2	5	2.10	0.2	43	18	40	53	5.66	0.19	12	32	2.50	822	1	0.14	34	0.10	2	56	0.37	252	80

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
226	1400W-350N	30	0.2	4.79	2	224	0.3	5	0.22	0.2	25	11	37	135	5.79	0.28	9	30	1.93	747	1	0.04	23	0.10	2	16	0.29	281	109
227	400	25	0.2	4.69	37	171	0.4	5	0.88	0.2	37	26	46	95	5.95	0.24	10	26	1.91	1167	2	0.04	34	0.12	3	54	0.28	210	91
228	450	15	0.2	4.34	4	313	0.4	5	0.89	0.2	41	16	48	40	5.70	0.33	12	20	1.81	794	1	0.05	35	0.09	3	59	0.28	245	86
229	500	45	0.2	4.13	2	216	0.3	5	0.88	0.2	37	8	43	31	3.76	0.33	10	16	1.19	351	1	0.05	19	0.16	3	61	0.26	169	54
230	1400W-550N	35	0.2	4.84	4	220	0.4	5	1.29	0.2	37	24	48	116	5.94	0.33	11	26	2.27	1240	1	0.08	47	0.10	2	64	0.24	210	86
231	1400W-600N	50	0.2	4.63	13	268	0.4	5	0.98	0.3	40	23	51	118	5.47	0.39	13	24	1.87	943	1	0.06	39	0.09	5	64	0.25	204	84
232	650	40	0.2	4.58	9	256	0.5	5	0.81	0.2	41	20	48	92	5.51	0.40	12	25	1.83	1116	1	0.06	42	0.12	2	52	0.24	198	98
233	1400W-700N	35	0.2	4.55	7	261	0.5	5	0.95	0.2	39	16	45	55	4.95	0.41	11	20	1.61	606	1	0.06	33	0.10	4	64	0.23	181	81
234	1700E-200S •	5	0.2	4.70	2	66	0.2	5	3.26	0.5	43	19	12	72	5.46	0.10	11	11	1.80	1275	1	0.03	18	0.10	2	219	0.37	173	105
235	1700E-250S	10	0.2	5.37	9	223	0.4	5	2.19	0.4	47	25	19	126	5.60	0.41	13	14	1.73	1600	1	0.05	22	0.13	2	153	0.30	155	109
236	1700E-350S	5	0.2	5.21	17	114	0.3	5	3.42	0.3	44	19	21	89	5.29	0.20	11	13	1.68	1099	1	0.03	22	0.09	2	222	0.34	194	80
237	400	10	0.2	4.72	14	160	0.3	5	2.63	0.5	44	23	36	122	5.24	0.27	12	14	2.01	1367	1	0.04	32	0.16	2	157	0.30	170	115
238	450	5	0.2	5.52	12	110	0.3	5	2.34	0.3	46	20	40	101	5.14	0.19	11	15	1.91	977	1	0.04	36	0.10	2	173	0.31	197	83
239	500	15	0.2	4.96	26	288	0.3	7	1.45	0.9	46	34	39	191	7.20	0.48	14	15	1.85	1590	6	0.05	61	0.13	4	136	0.37	223	155
240	1700E-550S	10	0.2	3.40	39	71	0.2	9	2.05	0.6	45	45	24	149	8.66	0.13	10	11	1.35	1762	4	0.03	31	0.13	2	57	0.40	188	124
241	1700E-650S	15	0.2	5.12	2	170	0.3	5	2.13	0.4	43	48	61	134	7.13	0.31	11	13	1.57	2710	2	0.04	105	0.18	2	81	0.33	180	116
242	700	5	0.2	5.74	8	168	0.5	5	2.17	0.2	43	22	47	107	5.96	0.24	10	13	1.71	1330	1	0.04	40	0.16	2	119	0.41	182	100
243	750	5	0.2	4.83	8	306	0.4	5	1.96	0.4	43	47	59	112	7.30	0.47	11	9	1.02	2519	6	0.03	52	0.17	2	109	0.38	152	143
244	800	5	0.2	4.97	2	252	0.4	5	1.28	0.2	43	28	19	106	8.05	0.42	11	14	1.19	1653	7	0.05	24	0.17	2	127	0.43	143	118
245	1700E-850S	5	0.2	5.12	21	69	0.2	5	2.11	0.7	39	67	63	173	9.96	0.07	9	14	2.65	1843	4	0.03	127	0.15	2	107	0.43	248	91
246	1700E-900S	5	0.2	6.43	2	160	0.3	5	1.59	0.2	37	15	43	61	5.47	0.16	8	12	1.52	672	2	0.04	39	0.13	2	113	0.32	156	76
247	950	5	0.2	3.92	5	189	0.3	5	1.82	0.2	44	16	27	55	5.06	0.22	13	17	1.81	1028	2	0.04	23	0.13	2	102	0.40	170	110
248	1700E-1000S	5	0.2	5.08	2	99	0.3	5	2.13	0.2	41	26	19	107	5.70	0.10	8	14	1.56	1334	1	0.04	24	0.14	2	148	0.46	196	92
251	2200W-50S	25	0.2	4.59	15	270	0.4	5	1.37	0.2	43	19	43	108	5.11	0.40	13	21	1.95	768	1	0.06	38	0.07	2	87	0.24	199	83
252	2200W-100S	30	0.2	5.01	6	262	0.4	5	1.79	0.2	43	19	39	108	5.49	0.35	12	20	2.24	800	1	0.07	39	0.09	2	106	0.28	219	93
253	2200W-150S	170	0.6	4.58	2	219	0.5	5	1.53	0.2	47	21	26	123	6.42	0.32	12	28	1.78	966	1	0.06	25	0.11	2	64	0.37	238	106
254	200	20	0.2	5.42	2	278	0.4	5	1.66	0.2	40	22	27	94	5.67	0.34	10	19	1.65	901	1	0.09	27	0.10	2	72	0.27	170	87
255	300	40	0.2	4.51	2	247	0.4	5	2.05	0.2	47	16	25	79	5.10	0.34	12	21	1.59	940	1	0.08	25	0.11	2	93	0.30	161	85
256	350	95	0.2	4.76	2	199	0.5	5	0.59	0.2	31	45	206	104	8.57	0.26	9	21	1.45	1377	1	0.04	78	0.13	2	21	0.17	235	105
257	2200W-400S	40	0.2	4.56	2	237	0.2	5	0.65	0.2	29	22	23	63	5.89	0.16	9	32	1.78	869	1	0.13	18	0.13	2	26	0.29	186	89
258	2200W-450S	10	0.2	5.25	2	447	0.3	5	0.62	0.2	36	12	5	37	5.43	0.60	11	31	1.65	787	1	0.17	4	0.07	2	29	0.32	173	75
259	500	55	0.2	3.81	2	513	0.5	5	0.28	0.2	20	23	16	43	6.27	0.40	8	25	1.64	818	1	0.04	14	0.07	2	14	0.33	181	93
260	550	10	0.2	4.06	2	269	0.2	5	0.76	0.2	25	21	16	52	5.33	0.29	7	43	1.96	772	1	0.10	16	0.06	2	23	0.30	168	77
261	650	20	0.2	4.64	5	227	0.3	5	1.87	0.2	40	17	26	70	5.00	0.27	10	19	1.64	843	1	0.07	19	0.09	2	84	0.29	173	77
262	2200W-700S	35	0.2	4.80	2	276	0.3	5	2.33	0.2	39	17	22	90	4.89	0.41	9	13	1.78	974	1	0.09	21	0.08	2	104	0.29	176	71
263	2200W-750S	20	0.2	2.94	2	186	0.2	5	0.19	0.2	21	20	19	49	5.00	0.14	6	17	1.06	678	1	0.05	13	0.06	2	7	0.25	152	49
264	800	35	0.2	4.16	9	197	0.3	5	2.06	0.2	40	11	25	46	4.60	0.24	9	19	1.51	651	1	0.08	16	0.10	2	79	0.31	166	74
265	850	15	0.2	4.31	2	194	0.3	5	1.70	0.2	38	11	26	40	4.62	0.25	9	15	1.47	656	1	0.08	18	0.11	2	75	0.30	167	75
266	900	10	0.2	4.51	2	184	0.3	5	2.22	0.2	37	15	27	65	4.69	0.25	8	16	1.83	781	1	0.09	23	0.07	2	90	0.30	178	75
267	2200W-950S	10	0.2	4.56	4	181	0.3	5	2.36	0.2	42	18	30	66	4.91	0.26	9	18	1.85	920	1	0.10	36	0.08	2	92	0.30	177	84
268	2200W-1000S	20	0.2	3.82	2	335	0.3	5	0.98	0.2	34	17	20	54	5.50	0.23	9	24	1.36	1304	1	0.06	13	0.16	2	29	0.29	179	97
269	1050	10	0.2	4.75	9	183	0.3	5	2.60	0.2	36	18	35	84	5.01	0.25	9	17	2.01	875	1	0.12	31	0.08	2	90	0.31	192	69
270	1100	20	0.8	5.74	2	891	0.5	5	0.46	0.2	34	43	177	187	8.34	0.31	16	45	3.43	1610	1	0.03	103	0.12	2	27	0.23	404	121
271	1200	10	0.2	3.43	7	314	0.3	5	0.62	0.4	33	31	22	314	6.39	0.35	13	29	1.79	1125	1	0.02	23	0.08	2	16	0.29	287	93
272	2200W-1250S	5	0.2	4.58	7	182	0.3	5	1.67	0.2	41	12	40	64	4.72	0.31	11	18	1.52	584	1	0.08	24	0.13	2	71	0.29	193	69

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
273	2200W-1300S	55	0.2	3.89	3	191	0.6	5	0.61	0.3	28	22	28	94	6.21	0.12	10	26	2.08	1037	1	0.03	21	0.12	2	39	0.33	295	96
274	1350	5	0.2	4.27	4	603	0.8	5	0.56	0.2	27	19	9	120	5.70	0.32	9	29	1.94	1086	1	0.03	13	0.13	2	55	0.40	232	90
275	1400	5	0.2	4.37	2	308	0.3	5	1.44	0.2	38	17	27	51	5.24	0.23	10	25	1.94	1063	1	0.07	20	0.12	2	58	0.31	198	104
276	1450	5	0.2	4.30	2	159	0.3	5	1.97	0.2	43	11	29	42	4.38	0.20	11	15	1.39	574	1	0.11	16	0.12	2	76	0.37	176	58
277	2200W-1500S	5	0.2	5.35	2	223	0.3	5	0.36	0.2	28	22	26	61	6.20	0.27	10	38	3.65	688	1	0.02	30	0.10	2	13	0.43	279	89
278	2200W-000N	25	0.2	4.90	10	234	0.4	5	1.35	0.2	43	20	38	92	5.10	0.33	11	19	1.79	740	1	0.06	35	0.10	2	82	0.24	194	84
279	50	75	0.2	4.58	6	256	0.4	5	1.29	0.3	41	18	42	105	5.51	0.30	12	26	1.90	1294	1	0.05	35	0.12	2	77	0.26	198	112
280	100 •	5	0.2	3.98	4	192	0.3	5	1.72	0.2	42	16	32	43	4.75	0.28	11	20	1.95	777	1	0.06	29	0.05	2	106	0.21	191	79
281	250	50	0.2	4.65	11	290	0.3	5	1.07	0.2	37	22	48	127	5.52	0.38	12	30	1.95	885	2	0.06	43	0.08	2	59	0.22	193	104
282	2200W-300N	60	0.4	4.36	6	283	0.3	5	1.16	0.2	35	17	41	107	5.38	0.32	10	27	1.93	621	1	0.06	38	0.07	2	62	0.23	188	88
283	2200W-350N	45	0.2	4.02	7	275	0.3	5	1.16	0.2	36	18	45	98	5.08	0.30	10	25	1.79	850	2	0.06	37	0.09	2	58	0.21	176	94
284	400	35	0.4	4.16	8	292	0.3	5	1.20	0.2	37	18	52	88	5.09	0.31	10	26	1.66	716	1	0.05	35	0.12	2	65	0.23	183	95
285	450	50	0.2	4.04	4	284	0.4	5	0.90	0.2	32	15	59	72	4.93	0.35	9	20	1.66	609	1	0.04	37	0.13	2	60	0.22	187	92
286	500	40	0.2	3.89	8	258	0.3	5	1.24	0.2	36	17	42	98	4.94	0.27	10	27	1.75	740	1	0.06	33	0.07	2	63	0.21	176	87
287	2200W-550N	145	0.2	3.54	11	322	0.4	5	0.99	0.2	35	16	46	92	5.03	0.40	10	21	1.58	963	2	0.05	35	0.07	4	59	0.19	166	82
288	2200W-600N	30	0.4	3.80	10	291	0.3	5	1.12	0.2	37	14	48	62	4.64	0.36	10	22	1.51	592	2	0.05	27	0.09	3	65	0.20	169	102
289	650	125	0.6	3.46	30	396	0.4	5	0.92	0.2	37	22	51	124	5.54	0.52	11	24	1.34	1108	2	0.06	33	0.11	4	64	0.12	171	103
290	700	35	0.2	3.27	12	354	0.3	5	0.42	0.2	29	22	44	72	4.85	0.47	8	18	0.91	2475	2	0.04	19	0.20	5	44	0.11	173	82
291	750	10	0.2	4.35	3	252	0.4	5	1.34	0.2	36	21	33	96	5.03	0.33	11	29	2.15	952	1	0.07	31	0.06	2	74	0.21	201	74
292	2200W-850N	130	0.4	4.55	16	469	0.5	5	0.68	0.2	33	18	42	123	6.23	0.62	13	29	1.52	564	1	0.06	31	0.13	3	68	0.14	215	103
293	2200W-900N	85	0.2	4.30	14	440	0.4	5	0.53	0.2	32	19	35	127	5.83	0.53	12	28	1.52	873	1	0.05	31	0.10	2	55	0.14	203	101
294	950	130	0.2	4.24	18	409	0.4	5	0.42	0.2	32	22	39	138	5.95	0.52	12	28	1.59	1052	1	0.05	34	0.10	2	53	0.15	202	101
295	1000	190	0.8	3.69	28	446	0.5	5	0.47	0.2	32	25	50	130	6.10	0.47	12	24	1.34	1139	1	0.05	40	0.11	3	46	0.12	192	107
296	1050	210	1.0	3.56	35	497	0.5	5	0.42	0.4	34	27	49	152	6.53	0.60	14	23	1.09	1645	1	0.06	43	0.11	3	43	0.10	177	115
297	2200W-1100N	400	0.2	3.33	31	519	0.4	5	0.43	0.2	34	35	45	142	6.44	0.43	12	24	1.27	1458	1	0.05	44	0.07	2	48	0.11	172	108
298	2950N-4300E	470	0.2	4.45	8	331	0.4	5	1.55	0.2	42	23	47	183	4.92	0.36	11	16	1.67	1120	1	0.08	29	0.14	4	144	0.30	167	87
3	4350	175	0.2	5.32	13	317	0.4	5	1.96	0.3	37	27	45	164	5.48	0.40	12	19	2.05	1122	1	0.11	33	0.16	4	164	0.35	192	101
4	4400	110	0.2	5.25	13	311	0.5	5	2.23	0.5	40	37	46	276	5.75	0.46	13	21	2.42	1337	1	0.12	37	0.12	3	215	0.33	201	95
5	4450	65	0.2	6.06	2	513	0.5	5	1.49	0.3	41	25	39	130	5.04	0.78	14	17	1.72	1245	1	0.10	27	0.12	6	150	0.24	161	98
6	2950N-4550E	30	0.2	4.24	2	296	0.3	5	1.41	0.2	39	5	21	20	3.00	0.69	13	10	0.90	552	1	0.06	8	0.11	10	91	0.38	160	63
7	2950N-4600E •	20	0.2	5.10	2	289	0.5	5	1.38	0.3	36	25	29	114	5.36	0.83	11	25	2.38	1077	1	0.06	27	0.10	4	107	0.30	220	90
8	4700	590	0.2	5.24	6	1290	0.7	6	1.18	0.5	46	22	27	64	5.72	0.92	17	19	1.32	1834	1	0.06	20	0.17	27	91	0.27	182	132
9	4750 •	30	0.2	3.21	2	329	0.3	5	0.71	0.2	30	4	25	18	1.95	0.49	10	7	0.45	269	1	0.05	7	0.13	7	59	0.20	106	40
10	4800	10	0.2	4.70	7	146	0.5	5	0.69	0.4	30	15	42	47	4.23	0.31	10	15	0.96	592	1	0.03	17	0.22	2	33	0.29	143	111
11	2950N-4850E	40	0.2	5.03	11	289	0.6	5	1.35	0.2	42	21	57	71	4.54	0.41	19	20	1.16	686	1	0.06	23	0.14	4	99	0.28	148	81
12	2950N-4900E	10	0.2	5.13	6	182	0.6	5	0.82	0.2	43	11	32	56	4.75	0.27	17	13	0.95	675	1	0.07	16	0.16	2	58	0.28	117	80
13	4950	65	0.2	4.46	4	239	0.4	5	1.55	0.2	40	13	49	58	4.31	0.50	15	14	1.17	606	1	0.07	18	0.16	3	112	0.28	143	84
14	5050	50	0.2	4.09	2	243	0.4	5	1.86	0.2	36	14	33	67	4.40	0.41	11	14	1.35	764	1	0.06	20	0.16	2	108	0.27	143	112
15	5100	1900	0.2	5.45	2	130	0.5	5	1.55	0.2	38	12	53	66	4.55	0.23	13	13	1.08	531	1	0.05	23	0.16	5	110	0.32	147	68
16	2950N-5150E •	20	0.2	4.03	6	212	0.3	5	1.87	0.3	37	23	27	113	5.04	0.46	13	15	2.02	1051	1	0.06	30	0.09	4	136	0.30	190	91
17	2950N-5200E	35	0.2	5.42	5	306	0.5	5	1.72	0.2	40	25	39	170	5.21	0.50	13	17	2.00	1028	1	0.09	31	0.13	3	115	0.32	183	97
18	5250	80	0.2	5.35	16	288	0.5	11	1.36	0.8	43	51	26	400	9.90	0.96	16	14	2.09	3186	12	0.06	37	0.13	8	83	0.23	428	148
19	5300	30	0.2	5.25	5	268	0.5	5	1.75	0.2	41	19	38	109	5.27	0.45	13	16	1.68	868	1	0.08	25	0.16	5	113	0.33	192	96
20	5350	55	0.2	5.44	10	313	0.5	5	1.74	0.2	41	25	41	153	5.31	0.48	15	17	1.72	1273	1	0.08	27	0.19	6	124	0.29	170	116
21	2950N-5450E	30	0.2	4.83	15	218	0.5	6	1.34	0.3	38	20	49	66	4.70	0.33	18	19	1.09	568	1	0.05	21	0.15	4	96	0.30	167	71

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
22	2950N-5500E •	10	0.2	4.69	13	165	0.4	5	1.14	0.3	36	12	35	58	4.64	0.34	14	12	0.98	599	1	0.06	16	0.15	5	81	0.32	157	67
23	5550	40	0.2	5.79	7	182	0.4	5	2.52	0.3	34	21	27	113	5.96	0.36	11	18	2.23	636	1	0.05	25	0.12	3	163	0.47	247	67
24	5600	10	0.2	4.35	5	155	0.3	5	1.43	0.2	33	10	31	50	3.83	0.30	11	10	1.12	476	1	0.05	17	0.16	4	105	0.37	157	61
25	5650	15	0.2	3.83	14	179	0.4	5	1.17	0.4	32	13	31	75	5.62	0.30	11	13	1.32	542	3	0.06	23	0.20	6	81	0.38	195	87
26	2950N-5700E	60	0.2	3.80	13	145	0.4	5	1.31	0.2	34	11	33	51	3.48	0.29	12	9	0.78	352	1	0.04	11	0.19	3	141	0.35	161	43
27	2950N-5750E	50	0.2	4.56	17	216	0.3	7	1.66	0.5	35	17	24	131	4.91	0.25	11	11	1.26	643	1	0.06	16	0.22	4	120	0.32	173	61
28	5800	65	0.2	4.10	13	208	0.4	5	1.40	0.2	34	12	35	78	4.25	0.31	11	10	0.97	455	1	0.05	16	0.20	6	106	0.30	156	53
29	5850	100	0.4	5.12	25	277	0.4	12	2.46	0.4	39	52	29	659	6.76	0.44	14	14	2.14	1163	7	0.08	34	0.13	22	203	0.38	249	82
30	5900	55	0.2	5.09	18	290	0.4	11	2.00	0.5	40	42	26	510	6.39	0.48	13	16	2.25	1261	4	0.07	30	0.14	17	162	0.39	244	88
31	2950N-5950E	20	0.2	4.95	2	235	0.5	5	2.06	0.5	40	37	29	342	5.96	0.39	17	21	1.97	1213	4	0.07	25	0.17	4	161	0.41	242	96
32	2950N-6100E	15	0.2	3.10	2	256	0.2	5	1.69	0.2	31	2	16	11	2.37	0.43	9	5	0.34	233	1	0.05	5	0.09	2	154	0.55	176	27
33	6150	10	0.2	3.27	2	171	0.3	5	1.35	0.2	31	8	16	24	3.74	0.33	11	8	0.84	401	2	0.04	8	0.12	2	119	0.41	177	48
34	2950E-6200N	10	0.2	3.82	2	202	0.3	5	1.71	0.2	33	8	20	30	4.48	0.40	11	10	0.90	410	1	0.06	11	0.11	2	127	0.44	221	44
35	4650E-1950N •	210	0.6	4.06	2	363	0.4	5	1.34	0.4	33	25	31	151	5.93	0.64	12	15	2.26	1773	1	0.04	21	0.11	6	101	0.28	201	101
36	4650E-2000N •	170	0.2	3.95	2	333	0.4	5	1.34	0.2	31	23	26	121	5.50	0.61	11	15	2.26	1689	1	0.04	22	0.11	4	97	0.28	192	99
37	4650E-2050N	175	0.6	4.52	2	420	0.5	5	1.53	0.3	34	27	36	192	5.75	0.59	12	17	2.59	2724	2	0.04	29	0.12	8	89	0.28	200	117
38	2200	145	0.2	4.95	4	468	0.5	5	1.65	0.4	37	24	23	181	5.55	0.72	13	17	2.08	2131	1	0.07	25	0.12	14	110	0.25	178	141
39	2250	140	0.2	5.75	2	464	0.5	5	1.32	0.4	33	25	25	184	6.05	0.85	12	17	1.89	1771	1	0.07	20	0.16	26	94	0.25	176	155
40	2300	70	0.2	5.37	2	331	0.5	5	1.37	0.2	34	20	27	491	4.85	0.57	12	15	1.46	792	3	0.08	19	0.15	12	94	0.23	140	136
41	4650E-2350N	15	0.2	4.82	5	395	0.5	5	1.39	0.2	42	17	36	95	5.79	0.60	18	21	1.21	741	4	0.07	18	0.18	51	107	0.33	184	113
42	4650E-2400N	55	0.2	5.11	12	331	0.5	5	1.78	0.2	37	23	35	101	5.36	0.57	13	21	1.90	1758	1	0.08	27	0.17	7	135	0.31	188	139
43	2450 •	20	0.2	4.18	2	316	0.3	5	1.40	0.2	32	15	30	49	4.63	0.57	11	14	1.39	1374	1	0.07	18	0.17	3	104	0.29	173	89
44	2500	35	0.2	4.49	2	436	0.5	5	2.16	0.2	38	19	40	91	4.97	0.44	14	16	1.69	866	1	0.09	24	0.11	3	157	0.29	176	84
45	2550	15	0.2	3.34	3	444	0.4	5	1.50	0.2	33	9	31	33	3.15	0.35	11	13	1.01	498	1	0.13	17	0.25	3	97	0.25	109	69
46	4650E-2600N	15	0.2	3.35	2	438	0.3	5	2.08	0.2	38	9	43	10	3.23	0.39	13	10	1.10	513	1	0.05	19	0.10	4	142	0.37	137	54
47	4650E-2650N	5	0.2	2.71	2	112	0.2	5	0.82	0.2	27	6	15	10	2.70	0.21	9	7	1.01	477	1	0.04	6	0.11	2	39	0.31	104	63
48	2700	1400	0.2	3.51	2	226	0.4	5	0.98	0.2	39	8	29	28	4.65	0.35	15	11	0.87	614	1	0.07	11	0.16	5	69	0.37	143	86
51	2750 •	20	0.2	3.67	5	407	0.4	5	1.43	0.4	37	21	35	56	4.36	0.42	17	19	1.23	1321	2	0.06	19	0.23	2	93	0.30	155	103
52	2800	50	0.2	4.33	4	246	0.6	5	1.27	0.2	33	14	35	62	4.34	0.34	11	14	1.11	718	1	0.05	19	0.18	7	83	0.25	131	75
53	4650E-2850N	5	0.2	5.48	4	505	0.7	5	1.14	0.2	35	17	41	95	4.92	0.53	15	22	1.65	1038	1	0.06	26	0.30	5	89	0.29	173	121
54	4650E-2900N	15	0.2	5.67	2	497	0.3	5	1.58	0.2	35	14	27	64	5.07	0.68	12	13	1.17	976	1	0.08	15	0.17	8	119	0.26	169	91
55	4650E-2950N	75	0.2	4.40	2	351	0.3	5	1.21	0.2	36	9	26	39	3.81	0.60	13	10	0.95	934	1	0.07	13	0.18	6	100	0.28	155	66
56	5000E-1850N	80	0.6	6.29	2	682	0.7	6	1.35	0.3	39	28	32	236	5.90	0.99	15	21	2.46	3587	1	0.06	37	0.13	11	145	0.23	181	113
57	1950	110	0.2	5.73	3	514	0.5	5	2.10	0.4	39	28	22	244	5.49	0.86	13	18	2.09	2285	1	0.08	30	0.12	11	169	0.26	177	122
58	5000E-2000N	250	0.2	5.61	4	483	0.6	5	1.76	0.5	40	27	35	193	5.59	0.84	13	18	2.04	1941	1	0.07	35	0.13	15	141	0.26	176	135
59	5000E-2050N	80	0.2	5.45	5	543	0.6	7	1.97	0.4	40	32	65	199	5.83	0.72	14	19	2.36	3181	1	0.06	77	0.13	10	176	0.26	188	118
60	2350 •	810	0.6	4.60	8	618	0.4	9	1.49	0.2	36	15	27	182	6.88	0.82	12	12	1.38	768	3	0.09	14	0.16	87	130	0.25	149	107
61	2400	70	0.2	5.22	4	595	0.5	5	1.70	0.2	44	22	40	127	5.37	0.50	20	25	1.67	893	1	0.08	24	0.15	17	133	0.31	182	115
62	2450	60	0.2	5.94	2	1847	0.7	5	1.38	0.2	47	26	24	107	5.57	1.05	19	18	1.67	1459	1	0.08	24	0.17	11	127	0.26	163	107
63	5000E-2500N	45	0.2	6.28	2	791	0.5	5	1.54	0.2	42	15	28	81	5.18	0.78	15	18	1.66	790	1	0.09	20	0.11	7	123	0.26	166	98
64	5000E-2550N	25	0.2	5.70	2	274	0.5	5	1.27	0.2	35	17	37	94	6.36	0.46	12	16	1.18	1076	1	0.06	22	0.18	3	82	0.26	153	104
65	2600	110	0.2	5.83	2	245	0.5	5	2.01	0.2	40	15	39	58	5.13	0.39	14	13	1.26	652	1	0.08	17	0.16	3	129	0.32	170	74
66	2650	60	0.2	4.85	21	235	0.8	5	2.33	0.2	51	24	47	282	5.66	0.44	18	22	1.34	1060	4	0.11	24	0.21	3	130	0.30	177	105
67	2700	60	0.2	5.24	5	230	0.5	5	2.07	0.2	39	18	52	108	5.80	0.35	13	16	1.49	718	3	0.08	21	0.16	2	118	0.35	183	108
68	5000E-2750N	35	0.2	5.77	2	175	0.4	5	1.44	0.2	37	14	44	57	5.27	0.32	12	12	1.27	703	1	0.07	18	0.16	3	89	0.32	168	84

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
69	5000E-2800N	20	0.8	5.14	2	174	0.4	5	0.95	0.2	29	10	33	60	4.86	0.22	10	11	0.92	442	1	0.04	15	0.19	2	62	0.25	135	69
70	2850	25	0.2	5.01	2	169	0.4	5	1.00	0.2	35	22	51	97	6.07	0.33	12	17	2.84	742	1	0.05	32	0.12	2	62	0.42	251	82
71	2900	110	0.2	5.37	4	294	0.5	6	1.88	0.2	44	25	63	94	5.50	0.51	21	22	1.56	912	1	0.08	30	0.15	3	139	0.33	186	103
72	5000E-2950N	40	0.2	5.35	2	284	0.5	5	1.55	0.2	35	18	41	112	5.08	0.43	13	15	1.41	872	1	0.07	22	0.14	2	106	0.28	155	95
73	5400E-2000N *	15	0.2	5.48	2	182	0.4	5	2.34	0.2	34	39	24	295	6.83	0.37	12	21	3.22	1345	1	0.13	46	0.12	2	165	0.34	218	121
74	5400E-2100N	40	0.2	6.03	8	260	0.5	5	2.35	0.2	36	38	30	421	6.45	0.48	14	18	2.27	1259	1	0.13	49	0.14	9	144	0.40	212	143
75	2150	40	0.2	5.77	10	274	0.5	5	2.00	0.2	37	40	30	380	6.61	0.50	14	18	2.26	1378	1	0.12	46	0.17	10	142	0.36	209	138
76	2200	25	0.2	5.29	70	222	0.4	8	1.75	0.2	40	50	22	206	8.06	0.33	15	17	2.02	2109	42	0.08	29	0.12	8	116	0.39	250	102
77	2250	55	0.2	4.49	9	276	0.3	5	2.27	0.2	40	22	21	160	4.81	0.51	15	12	1.36	801	2	0.08	20	0.10	4	152	0.26	159	92
78	5400E-2300N	90	0.2	4.95	2	307	0.5	5	1.45	0.2	38	15	33	179	5.42	0.53	14	14	1.29	801	9	0.07	22	0.16	29	107	0.29	148	104
79	5400E-2350N	60	0.2	5.58	446	218	0.4	6	2.14	0.2	36	29	22	265	5.92	0.33	13	10	1.05	851	2	0.05	19	0.17	2	154	0.27	158	60
80	2400	40	0.2	4.56	12	239	0.5	5	2.14	0.2	41	23	36	154	5.04	0.45	14	13	1.39	1124	2	0.08	23	0.17	3	132	0.29	156	97
81	2450	30	0.2	4.95	5	188	0.5	5	1.47	0.2	43	23	49	112	4.30	0.32	20	19	0.99	697	1	0.06	21	0.18	3	94	0.27	137	78
82	2500	60	0.2	6.06	2	313	0.4	5	2.05	0.2	40	22	36	146	5.36	0.51	13	14	1.44	857	1	0.07	23	0.14	5	144	0.27	160	77
83	5400E-2550N	50	0.2	5.73	4	445	0.4	5	2.10	0.2	42	30	25	245	5.94	0.75	15	17	1.87	1219	1	0.11	29	0.12	8	136	0.31	192	120
84	5400E-2600N	55	0.2	5.39	2	418	0.5	5	2.26	0.2	43	30	37	189	5.78	0.75	15	15	1.69	1154	1	0.09	25	0.12	6	167	0.29	183	97
85	2650	45	0.2	6.50	2	237	0.6	5	1.63	0.2	40	25	42	128	5.51	0.35	15	15	1.58	1264	1	0.08	24	0.20	4	95	0.28	156	102
86	2700	10	0.2	4.55	2	196	0.4	5	1.39	0.2	38	10	38	37	4.28	0.35	13	12	1.12	699	1	0.06	19	0.19	2	93	0.32	144	75
87	2750 *	40	0.2	5.66	2	166	0.4	5	1.18	0.2	35	13	27	68	5.13	0.28	11	10	0.95	469	1	0.06	15	0.17	5	72	0.23	134	71
88	5400E-2800N	30	0.2	4.77	2	218	0.4	5	1.40	0.2	37	16	24	68	4.92	0.39	12	13	1.22	1648	1	0.06	17	0.20	5	100	0.31	167	84
89	5400E-2850N	65	0.2	5.11	2	291	0.5	5	1.53	0.2	37	18	37	129	4.67	0.42	12	14	1.35	921	1	0.07	21	0.14	6	108	0.27	150	81
90	2900	130	0.2	5.31	3	252	0.5	7	1.87	0.2	41	23	56	172	6.17	0.43	14	15	1.51	959	2	0.07	24	0.22	5	124	0.32	187	101
91	5400E-2950N	10	0.2	4.16	2	179	0.5	5	1.54	0.2	37	11	68	39	4.01	0.29	14	13	1.15	650	1	0.05	31	0.13	3	119	0.35	159	65
92	5800E-2150N	40	0.2	5.60	7	261	0.6	5	1.73	0.2	39	68	30	707	7.40	0.43	14	20	2.26	1529	6	0.07	47	0.11	8	137	0.35	217	104
93	5800E-2200N	45	0.2	6.08	2	288	0.5	5	1.31	0.2	32	50	27	794	7.18	0.46	12	19	2.69	1305	3	0.05	33	0.13	2	136	0.36	229	85
94	5800E-2250N	30	0.6	6.29	2	324	0.6	5	1.51	0.2	34	36	33	852	7.12	0.48	13	21	2.84	963	5	0.07	48	0.17	3	151	0.32	208	114
95	2300	5	0.2	6.55	2	249	0.4	5	3.76	0.2	31	23	55	104	4.91	0.22	11	10	2.35	899	1	0.13	66	0.11	2	556	0.40	164	72
96	2350	25	0.2	4.89	2	343	0.3	5	1.92	0.2	35	11	19	71	4.27	0.40	12	9	0.98	619	1	0.08	14	0.16	3	204	0.32	159	67
97	2400	60	0.4	5.20	2	332	0.4	5	2.79	0.2	44	46	17	1008	7.41	0.61	16	16	2.13	1215	7	0.07	27	0.17	4	218	0.45	233	87
98	5800E-2450N	50	0.4	4.98	2	234	0.3	5	3.06	0.2	38	52	20	752	6.55	0.43	13	12	1.61	916	4	0.09	27	0.13	2	194	0.35	210	72
101	5800E-2500N	20	0.2	5.65	2	147	0.5	5	1.80	0.2	34	21	24	423	5.78	0.23	12	10	0.99	544	3	0.06	16	0.18	3	106	0.26	169	55
102	2550	15	0.2	4.66	3	159	0.4	5	1.66	0.2	42	13	19	275	4.50	0.31	16	12	1.17	543	2	0.09	17	0.19	2	100	0.31	151	65
103	2600	35	0.2	4.70	6	207	0.3	5	1.82	0.2	41	15	26	113	4.94	0.38	14	12	1.34	689	1	0.09	19	0.17	4	116	0.33	169	73
104	2650	25	0.2	4.62	3	193	0.5	5	1.88	0.2	37	28	31	332	5.54	0.31	13	23	2.43	922	1	0.07	50	0.18	2	82	0.40	216	94
105	5800E-2700N	30	0.2	5.19	2	300	0.4	7	1.98	0.2	42	24	24	203	6.35	0.53	15	18	2.15	930	1	0.07	24	0.12	3	140	0.40	228	89
106	5800E-2750N	20	0.2	4.81	2	258	0.4	5	1.87	0.2	42	22	17	142	5.57	0.50	15	17	2.11	1032	1	0.06	20	0.17	3	148	0.44	253	72
107	2800	30	0.2	4.92	5	425	0.4	10	1.78	0.2	45	30	16	387	6.77	0.77	17	17	2.65	1327	1	0.05	22	0.16	3	144	0.46	257	97
108	2850	330	1.0	4.29	12	169	0.3	14	2.29	0.2	40	29	19	808	8.46	0.24	13	9	1.20	857	75	0.04	21	0.23	16	217	0.32	209	58
109	5800E-2900N	55	0.2	4.55	6	254	0.4	6	1.71	0.2	40	27	25	340	5.16	0.38	14	15	1.63	846	4	0.06	28	0.16	6	139	0.33	184	84
110	6200E-2000N	70	0.4	4.54	6	160	0.4	7	2.12	0.4	43	41	44	402	6.32	0.27	14	15	2.40	1519	1	0.05	39	0.12	10	161	0.39	232	101
111	6200E-2050N	35	0.2	4.37	2	235	0.5	5	1.88	0.2	39	21	51	155	5.03	0.37	15	18	1.51	741	1	0.06	26	0.11	3	159	0.34	191	79
112	2100 *	10	0.2	5.44	2	179	0.5	5	2.06	0.3	35	41	34	324	6.76	0.27	12	21	3.20	1384	1	0.09	47	0.13	22	177	0.36	226	178
113	2150 *	75	0.2	3.58	2	237	0.3	5	1.10	0.2	32	20	24	139	4.86	0.42	11	11	1.37	761	2	0.04	14	0.14	2	75	0.35	227	66
114	2200	25	0.2	4.27	2	237	0.3	5	1.36	0.2	40	5	30	31	3.32	0.48	13	11	0.85	312	2	0.05	11	0.15	6	123	0.43	189	46
115	6200E-2250N	5	0.2	4.05	2	218	0.2	5	1.99	0.2	41	9	30	25	3.73	0.40	13	9	1.36	436	8	0.06	32	0.10	5	153	0.53	213	46

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
6200E-2300N	5	0.2	4.55	2	534	0.4	5	1.78	0.2	46	6	16	16	3.61	0.65	15	9	0.94	472	1	0.05	8	0.10	7	301	0.55	191	52
2350	10	0.2	4.83	2	276	0.4	5	2.38	0.3	43	14	30	67	5.04	0.40	14	19	1.58	1061	4	0.08	21	0.16	3	135	0.38	196	142
2400	10	0.2	4.23	2	187	0.2	5	2.73	0.2	42	9	19	13	3.59	0.41	13	8	1.05	412	1	0.08	12	0.08	4	158	0.50	205	38
2450	20	0.2	4.92	2	243	0.3	5	2.39	0.2	42	27	37	176	6.35	0.33	14	16	2.40	1007	3	0.08	34	0.11	7	181	0.45	262	90
6200E-2500N	5	0.2	4.47	2	200	0.9	6	1.28	0.3	41	20	32	462	4.46	0.34	21	15	1.35	1675	13	0.06	19	0.32	5	74	0.28	163	94
6200E-2550N	160	0.2	4.46	2	297	0.4	5	1.08	0.2	38	14	26	39	5.12	0.55	15	11	1.23	701	2	0.06	12	0.11	4	90	0.38	253	67
2600	40	0.2	4.18	2	212	0.2	5	2.27	0.2	39	5	22	11	3.07	0.41	11	7	0.81	412	1	0.05	9	0.07	6	152	0.55	220	31
2650	40	0.2	4.83	2	326	0.5	5	1.50	0.2	38	14	21	104	5.09	0.46	12	16	1.80	747	1	0.05	15	0.19	2	123	0.38	203	83
2700	500	0.2	4.41	2	450	0.4	5	0.57	0.2	32	14	16	18	6.41	0.86	14	11	1.64	902	1	0.04	11	0.12	8	48	0.35	297	65
6200E-2750N	10	0.2	4.55	2	333	0.4	5	1.14	0.2	36	18	13	203	7.88	0.64	13	17	2.62	1172	1	0.03	17	0.23	2	78	0.59	307	89
6200E-2800N	15	0.2	4.32	2	151	0.3	5	1.17	0.2	31	11	21	168	5.19	0.25	9	8	0.97	487	1	0.04	11	0.14	2	94	0.28	166	50
2900 *	60	0.2	2.95	2	203	0.4	5	1.22	0.4	35	39	16	363	3.39	0.30	12	9	0.89	2823	14	0.04	14	0.28	3	80	0.25	119	74
6200E-2950N	10	0.2	3.91	2	190	0.3	5	1.84	0.2	39	13	15	152	3.96	0.38	12	12	1.27	482	10	0.05	12	0.12	2	140	0.43	177	60

IGNORE

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL - 148 | Geol.:T.W. | Date received: JULY 26 | LAB CODE: 9307-031
Material: 268 Soils | Sheet: 1 of 7 | Date completed: AUG. 04
Remarks: * Sample screened @ -35 MESH (0.5 mm)
Organic, & 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.

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
1400W-850N	10	0.2	4.77	2	264	0.3	5	1.20	0.2	37	17	31	68	5.77	0.27	11	35	1.85	748	1	0.06	24	0.14	2	54	0.34	252	105
1400W-900N silt	30	0.2	5.54	6	375	0.3	5	1.40	0.2	40	22	21	118	5.81	0.81	11	46	2.08	1115	1	0.16	24	0.08	2	56	0.30	206	116
950	10	0.2	4.79	6	191	0.4	5	0.93	0.2	38	18	33	81	5.63	0.24	12	41	1.97	742	1	0.07	26	0.15	2	40	0.28	213	107
1000	15	0.2	3.80	10	242	0.4	5	0.78	0.2	34	13	43	46	4.66	0.34	10	19	1.20	877	1	0.06	20	0.17	2	50	0.21	183	77
1400W-1050N	40	0.2	4.78	15	334	0.5	5	0.68	0.2	35	15	36	61	5.29	0.40	11	25	1.29	703	1	0.07	21	0.15	5	54	0.21	190	101
1400W-1100N	70	0.2	4.56	27	321	0.5	5	0.84	0.2	33	19	46	76	5.58	0.33	11	27	1.42	833	2	0.05	27	0.19	6	51	0.23	204	98
1150	170	0.2	3.74	20	412	0.4	5	0.66	0.2	29	18	67	58	5.33	0.38	11	20	1.36	1842	1	0.06	28	0.21	6	51	0.20	226	105
1200	35	0.2	4.34	19	298	0.5	5	0.67	0.2	33	22	43	93	5.50	0.40	12	27	1.90	1333	1	0.06	32	0.13	2	47	0.24	209	118
1250	5	0.2	5.24	4	462	0.4	5	1.47	0.2	38	14	6	42	4.85	1.22	11	27	1.22	3527	1	0.13	5	0.14	2	46	0.24	108	97
1400W-1300N	10	0.2	5.07	4	317	0.3	5	1.02	0.2	38	22	31	113	6.05	0.42	13	34	2.30	1521	1	0.06	28	0.12	2	63	0.30	228	110
1400W-1350N	10	0.2	7.37	6	579	0.5	5	1.03	0.2	40	25	20	118	6.76	0.81	13	45	2.88	1803	1	0.08	33	0.15	2	48	0.31	232	129
1400	5	0.2	5.44	3	178	0.4	5	0.91	0.2	36	22	36	98	5.82	0.28	11	33	2.29	1324	1	0.08	29	0.16	2	50	0.29	229	109
1450	10	0.2	4.24	2	156	0.3	5	1.57	0.2	37	13	24	42	5.00	0.18	10	21	1.59	906	1	0.06	15	0.16	2	56	0.26	157	100
1500	20	0.2	5.23	4	214	0.4	5	1.38	0.2	41	24	41	108	5.89	0.32	12	32	2.56	1109	1	0.08	37	0.13	2	58	0.28	226	97
1400W-1550N	5	0.2	5.37	2	204	0.4	5	1.36	0.2	41	25	41	112	5.75	0.34	12	31	2.43	1262	1	0.08	34	0.13	2	54	0.27	219	94
1400W-1600N	5	0.2	4.19	5	279	0.2	5	1.45	0.3	40	26	23	212	6.19	0.24	12	26	2.27	1448	1	0.13	27	0.10	2	33	0.32	241	107
1650	5	0.2	5.28	3	217	0.4	5	1.37	0.2	41	24	40	116	5.67	0.41	13	27	2.47	1032	1	0.09	33	0.13	2	45	0.25	193	105
1700	65	0.2	4.94	2	213	0.4	5	1.02	0.3	42	22	41	117	5.31	0.40	14	24	2.09	1180	1	0.09	32	0.12	2	36	0.23	180	90
1750	5	0.2	5.10	6	214	0.7	5	0.77	0.3	43	23	32	99	5.61	0.40	15	28	2.01	1231	1	0.07	26	0.14	2	30	0.28	179	105
1400W-1800N	10	0.2	4.30	51	216	0.2	5	0.72	0.3	36	23	28	107	6.07	0.29	12	19	1.77	1182	5	0.05	26	0.12	2	36	0.34	285	181
1400W-1850N	5	0.2	4.43	5	185	0.2	5	0.33	0.3	30	20	18	95	6.16	0.35	11	23	1.87	1459	1	0.05	14	0.12	2	13	0.29	170	149
1900	30	0.2	3.81	6	338	0.2	5	0.52	0.2	31	11	13	47	4.37	0.50	10	21	1.14	1100	1	0.04	10	0.10	2	24	0.21	90	109
1950	25	0.2	4.42	8	438	0.2	5	1.06	0.4	36	21	23	171	5.89	0.54	10	27	2.16	1558	1	0.07	24	0.10	2	36	0.28	152	118
2000	10	0.2	5.30	11	215	0.7	5	0.62	0.5	53	23	76	118	6.07	0.51	22	25	1.74	1349	1	0.07	58	0.20	32	43	0.26	153	189
1400W-2050N	10	0.2	5.33	7	289	0.7	5	1.36	0.2	49	23	25	124	6.34	0.50	18	28	2.17	1191	1	0.10	23	0.16	2	59	0.32	204	135
1400W-2100N	10	0.2	5.23	7	357	0.4	5	1.60	0.2	44	23	27	152	6.42	0.60	15	29	2.20	1374	1	0.09	26	0.11	2	64	0.30	198	144
1450W-2100N	10	0.2	6.86	9	437	0.5	5	0.66	0.3	31	27	52	199	6.87	1.10	16	36	2.51	1535	1	0.05	39	0.14	2	30	0.19	260	112
1500W-2150N	10	0.2	6.57	7	192	0.4	5	1.88	0.2	35	35	70	139	6.40	0.28	13	39	3.88	1501	1	0.06	90	0.12	2	88	0.35	238	113
2200	15	0.2	5.98	9	324	0.6	5	1.00	0.4	44	27	42	250	6.11	0.62	18	44	2.32	2047	1	0.06	37	0.15	3	44	0.22	244	113
1500W-2250N	5	0.2	4.80	3	302	0.4	5	0.68	0.2	31	31	89	156	6.51	0.20	12	35	2.94	1734	1	0.04	48	0.17	2	37	0.24	282	102
1500W-2300N	5	0.2	6.02	3	216	0.3	5	1.63	0.3	36	34	55	114	6.58	0.41	12	49	3.70	1233	1	0.04	59	0.08	2	75	0.29	276	100
2350	10	0.2	4.68	11	475	1.5	5	1.11	0.2	70	21	30	133	5.84	0.58	30	41	1.80	1533	1	0.09	27	0.09	2	47	0.24	181	142
2400	15	0.2	5.44	7	244	0.4	5	0.79	0.2	37	29	60	160	6.14	0.51	13	36	2.56	1469	1	0.06	46	0.12	2	41	0.23	224	127
2450	10	0.2	6.15	4	462	0.3	5	1.05	0.2	33	33	52	146	6.76	0.28	11	56	3.33	1294	1	0.04	46	0.12	7	39	0.37	297	109
1500W-2500N	10	0.2	5.08	10	396	0.3	5	0.98	0.4	32	28	74	121	5.96	0.42	11	47	2.88	1721	1	0.05	51	0.10	2	47	0.25	201	109

12/08 GP

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
1500W-2550N	30	0.2	6.68	7	407	0.5	5	0.79	0.3	38	35	47	260	6.61	0.72	14	49	3.14	2142	1	0.05	47	0.11	2	33	0.18	271	105
2600	25	0.2	6.03	3	313	0.4	5	0.62	0.2	34	30	83	105	6.24	0.47	14	49	3.63	1022	1	0.04	66	0.10	2	29	0.26	258	103
2650	10	0.2	5.66	6	284	0.4	5	0.79	0.3	35	31	61	183	6.34	0.46	13	49	3.53	1246	1	0.04	57	0.09	2	37	0.27	273	101
2750	30	0.2	5.65	10	469	0.7	5	0.87	0.3	39	28	48	129	6.55	0.76	15	43	2.56	1666	1	0.07	50	0.11	9	39	0.24	243	119
1500W-2800N	70	0.2	4.58	10	397	0.3	5	0.86	0.2	33	28	46	120	5.93	0.48	12	35	2.29	1233	1	0.06	45	0.08	2	48	0.22	227	97
1500W-2850N	75	0.2	4.84	16	420	0.4	5	0.57	0.2	33	26	41	126	5.89	0.53	13	31	2.01	1206	1	0.05	40	0.07	5	35	0.21	210	107
2900	25	0.2	5.80	24	638	0.9	5	0.33	0.2	37	26	60	42	4.99	1.46	16	27	1.57	1576	1	0.09	91	0.08	15	18	0.09	108	105
2950	15	0.2	4.03	6	553	0.3	5	0.61	0.2	34	17	23	101	5.10	0.50	12	37	1.67	1294	1	0.04	22	0.08	2	64	0.25	177	92
1500W-3000N	25	0.2	4.47	3	497	0.3	5	1.01	0.2	38	25	28	141	5.88	0.62	13	45	2.37	1257	1	0.08	32	0.08	2	47	0.29	261	93
1550W-3025N	55	0.2	4.65	17	632	0.4	5	0.55	0.2	32	33	71	152	6.39	0.64	13	33	1.96	1365	1	0.06	58	0.10	6	22	0.19	236	117
2100N-1500W	5	0.2	6.83	2	273	0.3	5	0.08	0.2	19	28	18	92	6.15	0.57	7	47	2.90	1488	1	0.35	22	0.07	2	50	0.07	261	80
1550	5	0.2	6.06	3	396	0.5	5	0.98	0.2	39	31	51	306	6.79	0.54	15	39	2.88	1648	1	0.06	44	0.13	2	33	0.28	298	118
1600	5	0.2	6.40	2	601	0.6	5	0.32	0.2	30	40	139	166	7.42	0.78	13	80	3.19	2346	1	0.05	111	0.11	2	16	0.07	296	111
1650 •	5	0.2	7.94	2	241	0.5	5	0.44	0.2	37	40	32	186	8.45	0.59	14	48	1.03	1694	1	0.05	58	0.10	2	63	0.12	375	111
2100N-1700W	10	0.2	5.72	2	194	0.3	5	1.42	0.2	36	31	46	216	6.63	0.15	11	37	3.10	1352	1	0.06	47	0.14	2	91	0.29	263	122
2100N-1750W •	140	0.4	3.22	31	647	0.3	5	0.26	0.2	29	22	30	114	5.41	0.69	11	19	1.11	1281	1	0.06	23	0.08	2	16	0.15	205	88
1800	15	0.2	4.16	11	250	0.2	5	1.05	0.3	35	27	35	192	5.74	0.14	11	27	2.33	1560	1	0.03	36	0.09	2	132	0.27	242	103
1850	435	1.4	3.78	46	908	0.3	5	0.63	0.7	37	52	94	273	7.74	0.57	14	26	1.48	1523	2	0.10	80	0.09	10	35	0.21	252	135
1900	340	1.4	4.08	20	582	0.4	5	0.65	0.5	36	36	73	190	7.62	0.77	13	23	1.54	1027	4	0.11	64	0.09	4	29	0.24	301	146
2100N-1950W	175	1.4	4.26	13	636	0.4	5	0.92	0.4	34	42	66	214	8.03	0.77	13	22	1.56	1430	1	0.19	68	0.09	3	37	0.26	259	139
2100N-2050W	240	0.2	5.44	7	653	0.4	5	0.70	0.2	29	33	39	196	7.17	0.77	13	28	2.11	1583	1	0.07	46	0.09	2	38	0.20	227	105
2100	80	0.2	5.04	11	306	0.4	5	1.26	0.2	37	27	52	106	5.39	0.38	13	23	2.17	1179	1	0.08	47	0.08	2	64	0.21	188	82
2150	40	0.2	5.30	10	329	0.3	5	0.97	0.2	35	29	37	115	6.39	0.44	13	32	2.39	1170	1	0.08	42	0.08	2	54	0.26	223	110
2200	25	0.2	4.85	10	246	0.4	5	0.52	0.2	29	19	41	66	5.25	0.34	10	26	1.64	1034	1	0.04	28	0.13	2	37	0.21	200	95
2100N-2300W	215	0.4	4.46	25	566	0.7	5	0.40	0.3	31	30	57	130	6.96	0.81	13	25	1.51	1253	1	0.05	52	0.10	41	31	0.22	229	149
2100N-2350W	95	0.4	4.38	25	562	0.7	5	0.31	0.5	32	22	49	101	6.46	0.86	13	21	1.21	815	1	0.05	40	0.10	41	22	0.23	193	152
2400	60	0.2	4.43	17	468	0.8	5	0.28	0.2	30	14	60	69	5.57	0.61	12	22	1.08	608	1	0.05	30	0.14	21	25	0.22	207	140
2450	75	0.2	4.17	13	487	0.7	5	0.35	0.3	32	19	48	83	6.44	0.69	14	24	1.30	798	1	0.05	31	0.15	33	27	0.25	205	160
2500	160	1.6	4.76	35	674	1.1	5	0.73	0.7	39	27	58	104	7.00	0.90	15	26	1.61	1674	3	0.06	51	0.13	84	37	0.25	200	216
2100N-2550W	35	0.2	4.62	18	436	0.3	5	0.86	0.3	31	29	44	120	5.76	0.53	12	30	2.12	1412	1	0.06	41	0.08	4	49	0.18	222	91
2100N-2600W	140	1.8	3.98	31	544	0.9	5	0.52	0.9	33	28	77	112	6.71	0.75	14	23	1.56	1532	2	0.05	59	0.12	102	27	0.25	194	198
2600N-700E •	80	0.4	5.26	2	365	1.1	5	0.80	0.2	35	40	174	790	6.23	0.88	14	36	2.99	1235	4	0.27	209	0.16	2	81	0.08	136	113
750	95	0.2	4.67	3	299	1.1	5	0.89	0.2	34	54	289	910	6.62	0.77	13	34	3.81	1376	4	0.19	305	0.18	2	101	0.08	133	96
800	15	0.2	3.45	6	491	1.2	5	2.83	0.3	33	42	319	170	5.15	0.68	11	33	6.20	1065	1	0.07	419	0.17	2	89	0.11	65	77
2600N-850E	185	0.2	6.31	20	512	0.5	5	0.18	0.2	25	44	7	72	10.03	1.55	10	18	1.09	1538	14	0.26	11	0.17	2	42	0.05	129	122
2600N-900E	30	0.2	7.97	2	575	0.4	5	0.12	0.2	24	7	4	53	3.19	1.40	10	29	1.24	292	2	0.74	4	0.07	2	98	0.06	173	67
950	145	0.2	7.23	32	490	0.5	5	0.27	1.0	34	57	11	275	8.30	1.01	11	31	1.54	3310	21	0.37	18	0.20	17	77	0.06	177	266
1000	100	0.2	6.63	5	483	0.7	5	0.65	0.4	37	43	26	219	7.16	0.86	13	24	1.42	3294	16	0.19	38	0.23	15	71	0.15	165	210
1050	90	0.4	6.41	2	451	0.6	5	1.37	0.2	38	40	19	246	6.09	0.82	11	21	1.66	2932	13	0.10	27	0.13	24	153	0.20	158	164
2600N-1100E •	215	0.8	5.79	3	327	0.4	5	0.98	0.2	36	54	9	296	6.58	0.94	10	14	1.52	1744	17	0.06	14	0.13	7	63	0.20	163	146
2600N-1150E	10	0.2	5.28	2	180	0.3	5	0.44	0.2	30	10	23	66	7.80	0.42	11	10	1.71	627	13	0.04	10	0.17	2	49	0.21	185	78
1200	75	0.2	4.52	10	179	0.4	5	1.16	0.2	35	16	20	142	7.88	0.49	11	13	1.55	718	6	0.05	11	0.15	2	95	0.25	183	107
1250	100	0.2	5.14	2	283	0.3	5	0.91	0.2	35	25	13	126	7.63	0.74	11	13	1.67	1273	17	0.05	12	0.14	2	101	0.29	194	103
1300	30	0.2	5.39	2	486	0.5	5	0.76	0.2	36	18	13	84	6.11	0.65	13	21	1.65	993	24	0.06	10	0.16	2	60	0.30	173	103
2600N-1350E	30	0.2	4.33	2	185	0.2	5	0.98	0.2	34	12	11	107	6.11	0.43	9	11	1.52	775	9	0.04	7	0.17	2	74	0.33	182	72

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
2600N-1400E	150	0.2	3.29	5	225	0.2	5	0.51	0.2	25	7	8	87	6.35	0.75	7	10	1.73	806	1	0.03	5	0.10	2	27	0.33	177	74
1450	105	0.2	5.98	2	699	0.6	5	0.88	0.2	43	33	18	188	5.97	1.00	16	19	1.63	1716	22	0.07	21	0.16	12	81	0.23	152	136
1500	90	0.4	3.95	5	384	0.2	5	0.98	0.2	34	17	10	92	7.21	0.87	9	11	1.67	905	4	0.09	8	0.12	2	66	0.32	174	75
1550	195	0.2	4.77	6	304	0.3	5	1.54	0.2	35	20	11	174	7.96	0.63	11	11	1.56	1036	5	0.07	9	0.15	2	118	0.29	167	85
2600N-1600E	105	0.2	5.21	3	342	0.3	5	1.23	0.2	33	15	15	194	5.78	0.50	11	12	1.49	869	3	0.06	10	0.13	2	68	0.26	157	114
2600N-1650E	75	0.2	5.53	7	324	0.4	5	1.17	0.3	29	27	15	293	5.33	0.58	10	20	2.40	1335	1	0.05	18	0.13	2	62	0.29	178	155
1700	75	0.6	5.99	2	261	0.5	5	2.61	0.2	41	24	12	370	5.15	0.39	12	11	1.00	986	7	0.05	10	0.16	2	306	0.22	141	68
1750	750	1.4	3.60	5	357	0.3	5	0.73	0.2	36	32	10	176	5.09	0.33	13	11	1.25	2184	6	0.06	10	0.12	9	156	0.16	101	68
1800	80	0.4	4.40	2	418	0.3	5	1.02	0.2	34	16	13	121	5.21	0.55	10	11	1.38	1043	9	0.05	9	0.13	2	76	0.29	148	84
2600N-1900E	135	0.2	4.19	2	509	0.2	5	0.55	0.2	29	9	8	22	6.08	1.16	10	13	1.91	927	3	0.05	6	0.10	2	132	0.34	192	80
2600N-2000E	45	0.2	4.31	4	454	0.2	5	0.98	0.2	36	11	10	139	7.41	0.58	11	12	1.67	796	1	0.05	11	0.18	2	165	0.25	171	79
2050	90	0.2	6.84	2	445	0.5	5	0.63	0.2	27	23	15	255	4.80	0.55	9	19	2.04	1768	1	0.05	15	0.17	2	75	0.23	145	125
2100	570	0.6	4.90	6	425	0.4	5	1.76	0.2	42	30	44	264	5.83	0.74	12	16	1.74	1979	1	0.06	21	0.13	2	176	0.25	167	143
2350	55	0.2	6.04	9	389	0.5	5	1.79	0.2	41	36	27	189	5.59	0.74	13	21	2.26	1782	1	0.06	49	0.15	2	155	0.28	150	133
2600N-2500E	40	0.2	5.92	4	475	0.6	5	0.93	0.2	28	29	43	203	5.09	0.53	11	21	2.34	1403	1	0.04	43	0.17	2	98	0.23	143	119
2600N-2550E	70	0.2	5.74	2	374	0.4	5	1.31	0.2	36	43	33	145	4.78	0.39	11	13	1.14	1063	1	0.05	34	0.15	2	184	0.20	122	87
2600	30	0.2	6.17	2	456	0.5	5	0.88	0.2	35	20	28	144	5.12	0.53	12	15	1.21	825	2	0.10	24	0.23	2	132	0.18	113	79
2650	45	0.2	5.88	2	500	0.5	5	1.16	0.2	41	22	27	172	5.92	0.65	14	17	1.28	986	1	0.12	22	0.19	3	123	0.22	139	87
2600N-2700E	50	0.4	6.40	3	520	0.5	5	1.25	0.2	38	24	35	157	5.87	0.64	12	20	1.26	861	1	0.17	21	0.20	3	144	0.18	152	80
2600E-3250N	50	0.4	5.34	5	231	0.4	5	2.52	0.2	38	40	24	302	5.87	0.54	11	19	2.20	1539	1	0.08	26	0.12	2	191	0.34	171	110
2600E-3300N	100	0.2	4.98	12	193	0.4	5	2.79	0.2	36	40	28	315	6.10	0.49	11	18	2.15	1434	1	0.10	28	0.12	2	207	0.36	183	106
3400	80	0.2	4.28	9	230	0.3	5	3.16	0.2	35	35	22	357	6.11	0.49	12	16	2.11	1264	1	0.16	27	0.11	2	191	0.38	188	121
3500	360	0.6	4.27	14	174	0.3	5	3.66	0.2	32	34	26	387	6.47	0.42	11	14	1.88	1327	1	0.16	25	0.11	2	170	0.36	174	87
2600E-3550N	160	0.8	4.69	12	224	0.4	5	2.62	0.2	35	42	23	296	5.97	0.48	12	17	2.06	1174	1	0.11	26	0.11	2	195	0.35	166	89
2700N-2700E	5	0.2	4.56	5	152	0.6	5	2.41	0.3	40	22	72	48	3.96	0.30	13	22	2.36	1033	1	0.03	47	0.10	2	157	0.26	113	131
2700N-2800E	10	0.2	6.29	2	275	0.7	5	3.46	0.2	32	12	13	78	2.96	0.63	9	14	1.27	924	1	0.03	16	0.13	2	235	0.19	117	61
2850	40	0.2	4.51	4	256	0.5	5	1.45	0.2	39	16	42	113	4.39	0.30	11	15	1.49	881	1	0.05	26	0.20	2	118	0.28	135	87
2900	30	0.4	4.80	50	301	0.6	5	1.74	0.5	48	28	55	185	5.16	0.50	16	18	1.68	1426	1	0.10	37	0.16	3	164	0.31	159	134
2950	55	0.2	5.49	25	459	0.7	5	1.32	0.6	52	35	48	448	5.66	0.78	19	23	2.25	2957	1	0.06	42	0.16	12	114	0.30	177	138
2700N-3000E	35	0.2	5.43	5	238	0.6	5	1.83	0.2	39	22	62	174	5.09	0.40	12	19	2.05	1094	1	0.05	35	0.15	2	152	0.32	157	96
2700N-3050E	10	0.2	2.27	16	178	0.5	5	15.56	0.2	9	29	26	103	2.56	0.22	4	13	1.09	3292	2	0.09	22	0.09	2	133	0.16	151	68
3150	95	1.0	5.50	104	489	0.6	5	1.55	2.5	46	66	50	213	4.91	0.93	18	20	1.68	1364	4	0.08	98	0.26	75	118	0.30	368	285
3200	330	1.0	5.46	85	270	0.7	5	1.69	0.9	50	37	43	479	5.74	0.60	17	22	2.08	2150	1	0.05	38	0.17	66	144	0.31	182	162
3250	35	0.4	5.17	20	256	0.9	5	1.48	0.5	56	20	44	181	4.91	0.50	20	22	1.80	1243	1	0.07	32	0.20	15	115	0.30	172	135
2700N-3300E	20	0.2	5.23	13	258	0.8	5	1.52	0.4	39	20	46	109	4.67	0.54	13	19	1.50	1528	1	0.04	28	0.28	16	130	0.30	163	113
2700N-3350E	90	0.4	5.29	14	249	0.6	5	2.31	0.4	43	21	47	207	5.03	0.58	14	18	1.79	1231	1	0.11	35	0.17	7	176	0.34	183	134
3400	100	0.6	5.85	19	335	0.7	5	1.37	0.7	40	24	44	230	5.39	0.64	13	20	1.82	1981	1	0.05	36	0.21	6	106	0.33	175	184
3450	75	0.2	5.86	3	302	0.7	5	1.79	0.2	41	26	45	313	5.79	0.71	12	22	2.29	1469	1	0.06	41	0.16	2	123	0.34	176	121
3500	25	0.2	5.90	2	405	0.5	5	0.75	0.2	37	15	28	96	6.39	0.61	12	13	0.87	734	1	0.17	16	0.22	2	88	0.16	111	70
2700N-3550E	250	0.8	5.90	29	332	0.6	5	2.03	0.5	42	25	29	202	5.65	0.55	15	17	1.72	1238	1	0.14	31	0.17	4	208	0.36	179	134
2700N-3600E	45	0.2	5.88	23	266	0.6	5	1.23	0.6	35	22	39	115	5.14	0.58	13	23	1.79	1615	1	0.07	30	0.27	9	99	0.38	212	122
3650	45	0.2	5.30	14	396	0.5	5	1.31	0.2	36	19	45	106	5.62	0.71	13	17	1.49	1000	1	0.06	25	0.22	3	105	0.25	157	77
3700	30	0.2	5.01	16	312	0.6	5	1.57	0.4	35	26	37	136	4.97	0.53	11	15	1.37	1377	1	0.06	27	0.24	6	110	0.27	134	106
3750	70	0.2	5.45	13	323	0.7	5	1.73	0.2	40	27	49	220	5.30	0.73	15	18	1.82	1549	1	0.06	33	0.17	7	130	0.27	154	128
2700N-3850E	60	0.2	5.01	11	321	0.7	5	1.54	0.2	39	25	43	165	4.70	0.43	12	18	1.79	1116	1	0.08	32	0.16	2	165	0.27	142	96

T. .	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
2	2700N-3900E	30	0.6	6.45	16	349	0.7	5	1.43	0.2	48	40	29	195	5.79	0.42	14	13	1.11	1129	1	0.08	38	0.19	4	268	0.24	112	140
3	3950	50	0.2	5.63	5	421	0.5	5	1.71	0.2	42	23	45	144	5.16	0.61	13	16	1.69	1029	1	0.10	31	0.13	2	174	0.24	153	94
4	4000	20	0.4	4.70	16	315	0.4	5	1.46	0.4	41	28	31	173	4.66	0.29	11	13	1.29	1084	1	0.12	30	0.17	2	183	0.29	145	117
5	4050	160	0.2	5.66	71	369	0.5	5	1.71	0.2	43	23	42	158	5.11	0.53	13	15	1.47	1002	2	0.09	28	0.15	2	155	0.24	149	115
6	2700N-4100E	55	0.2	5.58	7	381	0.5	5	2.12	0.2	41	26	61	182	5.50	0.51	12	18	2.20	1233	1	0.12	46	0.14	2	231	0.32	176	103
7	2700N-4150E	80	0.6	5.28	36	298	0.5	5	1.93	0.2	39	39	29	172	5.45	0.40	12	15	1.47	1612	1	0.09	31	0.16	2	194	0.27	140	108
8	2700N-4200E	1700	2.6	5.73	21	321	0.4	5	1.76	0.2	39	38	35	356	5.23	0.48	11	15	1.52	1297	1	0.10	42	0.14	3	150	0.27	144	119
9	3100N-3600E	200	0.4	5.23	2	363	0.5	5	2.21	0.2	41	36	39	390	5.55	0.50	12	20	2.35	1420	1	0.11	32	0.12	2	255	0.31	180	113
0	3650	75	0.4	6.04	2	306	0.6	5	2.21	0.2	39	31	35	305	5.17	0.44	11	20	2.36	1446	1	0.11	32	0.15	2	227	0.32	174	113
1	3100N-3700E	270	0.2	4.56	4	274	0.6	5	1.75	0.2	39	26	44	189	5.44	0.38	13	19	2.17	1064	1	0.08	25	0.12	2	189	0.32	183	90
2	3100N-3750E	65	0.6	5.40	2	297	0.5	5	1.73	0.2	40	21	40	197	4.99	0.36	13	19	1.96	958	1	0.10	25	0.20	2	163	0.33	172	94
3	3800	90	0.2	5.78	2	230	0.5	5	2.10	0.2	40	28	53	206	5.45	0.36	12	23	2.65	1242	1	0.09	37	0.15	5	208	0.33	194	109
4	5400	25	0.2	4.95	2	264	0.4	5	1.64	1.0	33	35	37	220	5.83	0.25	9	14	2.53	1901	1	0.04	30	0.16	8	96	0.34	195	158
5	5450	70	0.4	5.06	6	361	0.4	5	1.81	0.2	41	26	31	187	5.63	0.52	11	15	1.75	1041	1	0.09	24	0.11	6	134	0.29	169	100
6	3100N-5500E	85	0.4	5.87	4	423	0.5	5	1.77	0.2	41	30	28	203	5.80	0.71	12	15	1.71	1127	2	0.10	25	0.12	4	143	0.26	173	98
7	3150N-700E	300	1.2	5.70	3	346	0.8	5	0.32	0.5	36	43	49	1258	8.08	1.63	16	22	0.94	1435	12	0.17	85	0.16	4	40	0.06	137	187
8	750	280	1.4	5.33	2	421	1.0	5	0.22	0.5	30	49	77	1236	7.92	1.82	13	19	0.87	1655	11	0.14	129	0.14	3	27	0.04	141	170
1	800 •	200	1.0	5.19	10	304	0.8	5	0.08	0.3	30	35	30	608	8.07	1.63	13	20	0.62	1469	13	0.16	37	0.15	6	23	0.03	114	250
2	850	80	0.4	6.87	2	434	0.6	5	0.32	0.5	31	34	27	176	6.86	1.36	12	36	1.09	2206	4	0.39	35	0.15	33	55	0.06	161	273
3	3150N-900E	65	0.4	6.87	2	446	0.6	5	0.76	0.9	42	27	28	204	6.13	1.48	13	33	1.52	2048	1	0.19	32	0.13	40	60	0.14	185	289
4	3150N-950E	130	0.2	5.98	2	275	0.5	5	1.60	0.2	41	32	14	165	5.66	1.17	11	25	1.84	2036	1	0.07	24	0.09	18	85	0.18	166	156
5	1000	360	0.4	5.43	2	233	0.4	5	1.81	0.8	40	29	10	175	5.46	1.00	10	24	1.73	1935	1	0.08	16	0.10	45	88	0.21	160	221
6	3575	560	0.6	4.82	4	314	0.4	5	2.20	0.2	41	35	37	279	5.40	0.49	11	19	2.22	1148	1	0.10	29	0.13	2	220	0.32	181	102
7	3850	75	0.4	4.08	4	308	0.4	5	1.55	0.2	43	38	26	325	5.00	0.48	12	16	1.66	820	1	0.08	22	0.12	8	168	0.29	153	63
8	3150N-3900E •	250	0.4	3.90	2	220	0.3	5	1.77	0.2	41	27	24	260	4.70	0.51	11	16	1.76	689	1	0.08	22	0.12	7	132	0.26	162	77
9	3150N-3950E	100	0.2	3.88	4	250	0.4	5	1.17	0.2	40	27	31	313	4.90	0.37	13	14	1.39	518	1	0.08	22	0.15	2	126	0.28	147	62
0	4000	25	0.2	3.73	3	289	0.4	5	0.66	0.2	34	17	27	109	3.19	0.26	10	11	0.84	844	1	0.05	12	0.26	2	75	0.23	106	57
1	4050	15	0.2	4.93	2	206	0.5	5	1.56	0.2	44	14	55	127	4.17	0.32	18	12	1.30	406	1	0.11	18	0.30	2	112	0.41	150	61
2	5150	30	0.4	5.65	6	314	0.4	5	1.99	0.2	35	29	26	382	5.70	0.37	10	14	1.48	1025	4	0.08	21	0.16	2	148	0.33	183	105
3	3150N-5200E	50	0.6	5.23	3	289	0.4	5	1.74	0.2	34	43	31	389	7.69	0.38	10	15	2.36	1605	14	0.05	31	0.12	2	223	0.45	279	102
4	3150N-5250E	280	0.6	5.48	2	336	0.5	5	1.71	0.2	37	35	32	353	6.70	0.44	11	19	2.21	1402	1	0.06	27	0.14	13	147	0.38	231	103
5	5300	30	0.4	4.38	2	244	0.4	5	2.22	0.2	38	9	22	131	4.89	0.45	10	12	1.16	959	2	0.06	11	0.25	2	105	0.31	192	70
6	5350	60	0.2	4.26	2	221	0.3	5	1.61	0.2	34	8	25	55	4.96	0.40	9	10	1.01	618	2	0.06	10	0.18	2	96	0.33	173	62
7	5400	40	0.4	5.94	2	316	0.5	5	1.71	0.2	35	28	34	231	6.66	0.37	10	17	2.51	1322	1	0.06	29	0.15	2	133	0.37	217	116
8	3150N-5550E	210	0.2	4.36	2	272	0.4	5	1.86	0.2	39	11	44	67	5.14	0.42	11	11	1.03	661	1	0.06	16	0.19	2	123	0.33	174	62
9	3175N-5600E	10	0.2	5.08	2	215	0.3	5	2.39	0.2	38	17	18	87	5.86	0.25	9	14	1.83	873	1	0.06	15	0.11	2	193	0.48	237	73
0	5650	110	0.8	4.59	2	1073	0.4	5	2.14	0.2	37	42	20	393	7.03	0.48	9	16	2.56	1748	1	0.06	24	0.08	5	106	0.37	246	103
1	5700	110	0.6	5.52	3	372	0.6	5	1.72	0.2	42	40	27	319	6.75	0.54	13	18	2.35	1689	1	0.08	32	0.13	17	137	0.38	248	118
2	5750	60	0.8	5.45	2	277	0.5	5	1.82	0.2	38	39	40	467	7.18	0.43	12	17	2.85	1692	1	0.06	42	0.14	8	147	0.40	246	147
3	3175N-5800E	45	1.0	4.79	2	291	0.4	5	2.37	0.2	41	37	40	324	6.93	0.48	13	15	2.86	1439	1	0.05	37	0.14	2	193	0.45	247	134
4	3175N-5850E	30	1.2	5.13	2	272	0.4	5	2.00	0.2	39	28	35	201	6.32	0.40	12	15	2.37	1529	1	0.07	29	0.17	2	191	0.44	248	121
5	5950	35	0.4	5.24	2	322	0.4	5	1.41	0.2	32	23	38	195	5.39	0.50	10	17	1.85	1008	1	0.08	27	0.16	2	103	0.29	181	105
6	6000	40	0.6	4.76	6	315	0.4	5	1.61	0.2	34	26	28	190	5.38	0.48	11	15	1.76	1172	1	0.07	24	0.15	2	112	0.30	183	101
7	6050	25	0.2	5.81	2	166	0.5	5	1.50	0.2	29	22	29	205	6.00	0.25	10	15	1.89	828	1	0.05	19	0.15	2	83	0.39	229	83
8	3175N-6100E	20	0.2	3.32	2	173	0.2	5	1.29	0.2	33	5	23	24	3.27	0.39	11	7	0.65	324	1	0.06	7	0.12	3	104	0.48	186	43

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
3200N-4650E	30	0.2	3.66	3	168	0.3	5	0.68	0.2	25	6	28	37	2.99	0.23	9	7	0.61	284	1	0.05	9	0.20	2	53	0.27	108	39
4700	30	0.2	5.18	2	575	0.5	5	1.10	0.2	39	19	34	139	4.93	0.59	17	20	1.66	1088	1	0.07	21	0.20	4	159	0.33	185	86
4750	65	0.4	4.59	4	284	0.7	5	2.12	0.3	40	28	37	99	5.96	0.22	12	17	1.56	1943	1	0.06	20	0.29	2	233	0.40	229	91
4800	130	0.4	4.15	4	214	0.4	5	1.42	0.2	38	16	44	112	4.52	0.35	12	18	1.27	833	1	0.06	22	0.18	2	135	0.29	158	126
3200N-4900E *	20	0.4	4.11	3	233	0.4	5	2.50	0.2	42	15	11	77	3.97	0.40	12	11	1.13	1062	1	0.05	11	0.13	2	267	0.28	145	73
3200N-4950E *	350	0.4	4.13	4	246	0.4	5	1.44	0.3	42	29	25	197	5.20	0.45	13	16	1.76	1798	8	0.06	24	0.15	6	147	0.27	192	112
5000	10	0.6	5.39	2	149	0.4	5	2.60	0.2	43	35	12	279	6.40	0.17	11	7	0.68	1126	1	0.08	12	0.22	2	357	0.20	113	76
3200N-5200E	5	0.2	4.70	3	285	0.4	5	1.71	0.2	33	30	41	383	6.41	0.47	11	13	3.28	1484	1	0.04	45	0.13	2	126	0.48	287	98
3300N-3400E	390	0.6	5.12	3	247	0.4	5	2.64	0.2	34	74	65	326	6.56	0.30	12	20	2.91	1424	1	0.09	55	0.11	2	296	0.29	196	100
3300N-3650E	150	1.0	5.78	2	453	0.7	5	1.70	0.2	54	45	32	824	5.64	0.60	23	25	2.02	884	1	0.07	34	0.17	15	292	0.30	165	121
3300N-4400E	50	0.2	4.28	2	636	0.7	5	0.80	0.2	50	11	15	44	3.65	0.59	21	15	0.98	767	1	0.05	12	0.17	9	111	0.23	103	73
4400 DUP?	70	0.2	5.03	2	329	0.7	5	1.06	0.2	40	25	42	191	5.26	0.88	18	20	1.95	1302	1	0.07	24	0.15	3	103	0.20	179	85
4450	220	0.2	5.07	5	333	0.6	5	1.71	0.2	39	27	51	134	4.50	0.27	12	15	1.36	1052	1	0.08	24	0.16	2	142	0.25	151	86
4550	55	0.2	3.22	2	233	0.4	5	0.67	0.2	28	5	24	33	2.08	0.43	9	6	0.44	303	1	0.04	8	0.22	2	71	0.18	76	63
3300N-4600E	45	0.2	4.20	2	284	0.3	5	0.88	0.2	32	8	32	55	2.83	0.29	10	9	0.71	412	1	0.05	12	0.20	2	78	0.23	100	56
3350N-550E	15	0.2	6.04	32	199	0.4	5	2.42	0.2	37	48	36	240	6.39	0.30	10	21	2.28	1203	1	0.07	77	0.10	2	129	0.35	205	125
600	30	0.2	6.27	11	239	0.6	5	1.98	0.2	38	28	59	215	5.82	0.64	11	25	2.00	1169	2	0.09	59	0.14	2	152	0.24	177	105
650	25	0.2	6.29	8	235	0.6	5	2.12	0.2	36	28	39	168	5.36	0.63	11	21	1.78	1366	1	0.10	48	0.14	2	141	0.22	170	110
700	70	0.6	7.91	20	327	0.6	5	1.93	0.5	35	56	11	449	6.09	0.99	11	23	2.12	1331	4	0.11	35	0.11	2	99	0.21	170	141
3350N-750E	220	0.4	5.92	6	373	0.5	5	0.18	0.2	25	13	20	486	5.76	1.22	12	28	0.97	432	28	0.21	17	0.15	5	38	0.08	155	74
3350N-950E	210	0.2	5.36	2	383	0.6	5	2.17	0.2	38	32	18	313	5.59	0.64	12	21	1.83	1162	1	0.10	24	0.12	2	146	0.26	160	92
1000	30	0.4	5.80	2	442	0.5	5	2.18	0.2	37	34	15	235	5.58	0.68	11	20	1.96	1279	1	0.09	25	0.12	2	145	0.26	163	97
1050	20	0.2	5.52	2	323	0.4	5	1.89	0.2	37	66	11	414	5.90	0.65	11	17	1.81	1548	1	0.07	20	0.12	2	135	0.27	162	91
2450	880	1.0	3.97	13	237	0.5	5	4.31	0.2	37	124	28	1750	8.54	0.43	14	11	1.15	1932	10	0.07	46	0.22	2	167	0.27	151	109
3350N-2500E	320	0.8	3.96	7	209	0.4	5	4.86	0.2	36	61	34	764	8.38	0.49	12	12	1.36	1291	6	0.09	41	0.14	2	175	0.29	188	84
3350N-2550E *	1120	1.0	4.14	2	246	0.4	5	2.80	0.2	35	33	49	272	5.70	0.65	11	14	1.78	1009	2	0.09	27	0.12	2	206	0.32	161	65
2600	120	0.2	4.18	10	214	0.3	5	3.00	0.2	32	34	19	327	5.96	0.49	10	15	1.91	1178	1	0.13	27	0.11	2	205	0.36	179	87
2650	60	0.4	4.80	2	214	0.4	5	2.77	0.2	31	46	18	306	6.13	0.51	10	16	2.13	1122	1	0.12	22	0.11	2	213	0.35	172	83
2650 DUP?	90	0.2	4.72	3	233	0.3	5	3.17	0.2	28	31	28	206	5.74	0.63	10	17	2.31	1149	1	0.16	31	0.10	2	191	0.38	175	80
3350N-2700E	30	0.2	4.51	2	216	0.4	5	2.57	0.2	33	37	17	171	5.85	0.53	13	15	1.90	1026	1	0.11	18	0.11	2	222	0.34	164	84
3350N-2750E	110	0.4	4.40	4	141	0.5	5	3.03	0.2	35	48	20	361	6.85	0.34	11	14	1.82	983	1	0.13	21	0.11	2	223	0.40	206	63
2800	225	0.2	4.72	3	162	0.3	5	2.55	0.2	35	63	19	287	7.07	0.49	9	17	1.99	1014	1	0.08	24	0.11	2	201	0.37	200	64
2850	160	0.2	5.91	2	120	0.4	5	2.87	0.2	35	66	31	244	6.83	0.44	10	19	2.37	1063	1	0.08	42	0.12	2	206	0.31	197	61
3000	200	0.4	5.88	2	176	0.5	5	2.41	0.2	36	61	20	656	7.04	0.38	11	21	2.46	1079	1	0.08	32	0.15	2	199	0.34	199	65
3350N-3050E	40	0.2	6.39	2	84	0.5	5	3.43	0.2	32	88	15	623	6.71	0.25	10	21	2.28	896	1	0.08	34	0.11	2	223	0.36	182	58
3350N-3100E	100	0.2	5.73	2	307	0.4	5	3.20	0.2	34	30	13	313	5.46	0.25	10	16	2.06	730	1	0.10	19	0.11	2	223	0.40	181	53
3150	930	0.8	5.24	2	174	0.4	5	2.95	0.2	36	41	23	382	6.03	0.36	10	18	2.33	890	1	0.10	25	0.10	6	250	0.37	210	62
3200	230	0.6	4.59	2	189	0.5	5	2.83	0.2	42	39	21	345	5.47	0.38	13	17	1.92	864	1	0.10	22	0.11	2	283	0.32	167	63
3250	390	0.6	4.72	2	327	0.4	5	2.36	0.2	41	47	24	806	5.72	0.57	12	17	2.09	1096	1	0.08	23	0.10	2	200	0.29	180	61
3350N-3300E	180	0.2	4.13	2	128	0.4	5	2.59	0.2	45	26	11	256	5.57	0.40	12	17	1.68	830	1	0.07	9	0.16	2	213	0.38	182	56
3350N-3350E	150	0.2	4.31	7	185	0.5	5	2.77	0.2	43	41	24	268	5.95	0.35	14	18	1.88	901	1	0.09	20	0.12	2	208	0.35	200	62
3400	190	0.2	4.85	5	241	0.5	5	2.25	0.2	39	76	61	309	6.21	0.34	12	21	2.85	1555	1	0.08	53	0.10	2	254	0.26	180	93
3450 *	30	0.2	5.32	2	372	0.6	5	3.04	0.2	43	22	11	199	3.86	0.53	14	15	1.65	680	1	0.08	16	0.10	2	251	0.22	125	62
3500	50	0.2	4.39	5	253	0.5	5	2.26	0.2	54	32	15	247	4.56	0.50	19	15	1.42	895	1	0.06	17	0.12	32	341	0.24	137	90
3350N-3600E	250	0.4	5.62	7	499	1.0	5	2.01	0.2	70	35	20	244	4.97	0.81	31	32	1.97	1080	1	0.05	25	0.13	18	388	0.33	151	103

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
3350N-3650E •	20	0.2	2.48	3	226	0.4	5	0.90	0.2	41	11	13	30	2.78	0.41	13	13	0.90	802	1	0.05	11	0.07	2	121	0.20	84	62
3400E-3250N	230	0.2	5.07	11	268	0.5	5	2.46	0.2	40	80	63	318	6.48	0.33	13	21	2.86	1491	1	0.09	53	0.10	2	279	0.26	188	97
3450N-2450E	1130	1.2	3.89	18	333	0.5	5	1.92	0.2	45	122	28	1364	12.75	0.59	22	12	1.22	1094	21	0.06	33	0.19	2	132	0.28	176	75
3550N-2450E	140	0.2	5.28	6	397	0.8	5	2.59	0.2	43	374	20	859	7.28	0.53	17	21	1.81	2115	2	0.06	48	0.15	2	169	0.26	152	84
3550N-2500E	670	0.8	4.22	14	278	0.5	5	2.71	0.4	41	99	49	1388	8.79	0.54	17	14	1.55	1778	9	0.07	47	0.18	5	141	0.28	164	107
3550N-2550E	130	0.2	3.88	6	235	0.5	5	2.77	0.2	40	27	32	228	5.36	0.62	13	16	1.83	1013	2	0.11	24	0.12	2	156	0.33	171	70
2700	130	0.2	4.30	2	160	0.3	5	2.98	0.2	34	47	22	446	6.50	0.43	10	15	2.00	1038	1	0.14	22	0.10	2	210	0.40	202	61
2750 •	320	0.6	5.31	2	138	0.4	5	2.89	0.2	36	49	22	250	6.65	0.48	11	18	2.17	1121	1	0.08	28	0.11	5	213	0.34	209	79
3550N-2850E	130	0.2	5.04	2	234	0.4	5	1.65	0.2	40	54	20	869	7.75	0.42	12	18	1.88	844	4	0.06	24	0.19	2	241	0.33	179	55
4450N-4350E	25	0.2	4.30	2	811	0.4	5	1.70	0.2	35	23	25	166	4.38	0.22	9	14	2.00	832	1	0.08	27	0.20	2	205	0.30	124	78
4450N-4400E	10	0.4	2.74	2	183	0.3	5	1.19	0.2	26	28	20	182	4.39	0.21	7	11	1.49	816	1	0.09	15	0.15	2	48	0.36	141	82
4450	15	0.6	2.41	2	131	0.2	5	0.79	0.2	25	9	23	66	3.31	0.24	8	6	0.83	347	1	0.06	11	0.13	2	57	0.40	126	43
4500	75	0.2	3.15	2	228	0.4	5	1.38	0.2	43	13	23	77	4.18	0.30	16	11	1.12	602	1	0.08	15	0.14	2	142	0.29	121	73
4550	90	0.2	5.91	2	171	0.6	5	2.90	0.2	33	73	62	233	7.56	0.24	12	18	2.64	1383	1	0.07	79	0.16	2	366	0.36	209	111
4450N-4600E	160	0.4	5.61	2	120	0.5	5	3.56	0.2	28	53	57	187	8.17	0.13	10	12	1.99	865	1	0.08	69	0.19	2	471	0.35	215	79
4450N-4650E	110	0.2	5.52	2	88	0.8	5	4.65	0.2	28	81	72	172	6.84	0.11	9	11	1.72	1014	1	0.07	72	0.12	2	646	0.30	215	77
4450N-4750E	10	0.2	6.74	2	280	0.6	5	1.56	0.2	36	50	62	326	7.82	0.28	13	33	4.72	2371	2	0.03	67	0.12	2	131	0.40	257	97
4600N-4400E •	45	0.2	4.67	2	455	0.4	5	2.90	0.2	31	37	29	192	5.65	0.28	9	14	2.17	1084	1	0.11	28	0.16	6	235	0.30	171	86
4450	150	0.2	4.00	2	154	0.5	5	3.07	0.2	33	57	51	231	6.66	0.18	10	9	1.77	1803	7	0.10	36	0.12	2	335	0.33	167	64
4600N-4500E	30	0.2	5.71	2	81	0.6	5	3.71	0.2	27	71	49	396	6.70	0.13	8	18	3.29	1430	1	0.10	84	0.13	2	385	0.38	196	87
4600N-4550E	150	0.2	5.38	2	103	0.6	5	3.81	0.2	30	38	29	162	6.58	0.16	10	15	2.64	2075	2	0.06	36	0.10	2	451	0.42	233	74
4600N-4600E	145	0.2	5.32	2	94	0.6	5	4.31	0.2	27	41	31	162	6.63	0.14	9	14	2.57	2407	2	0.08	36	0.09	2	430	0.40	233	78
4650E-3000N	35	0.2	4.63	2	355	0.3	5	1.32	0.2	33	9	31	40	4.43	0.53	10	11	1.15	726	1	0.07	16	0.16	2	109	0.30	152	87
3050	85	0.2	4.85	6	299	0.7	5	1.50	0.2	42	20	43	138	4.78	0.47	15	18	1.60	993	1	0.07	29	0.17	2	106	0.30	158	99
4650E-3100N	65	0.2	5.53	9	361	0.5	5	1.58	0.2	43	21	59	122	5.43	0.54	15	16	1.56	952	1	0.09	29	0.19	2	134	0.29	155	101
4650E-3150N	60	0.2	4.53	4	469	0.5	5	1.28	0.2	42	15	36	91	4.38	0.47	14	14	1.39	825	1	0.07	22	0.14	2	102	0.26	141	81
3250	80	0.2	5.52	105	573	0.6	5	1.73	0.2	43	27	52	136	5.81	0.62	15	18	1.83	1133	1	0.10	37	0.16	2	148	0.27	156	98
3350	35	0.2	2.94	3	311	0.5	5	1.09	0.2	42	17	19	73	3.28	0.30	13	11	0.76	1303	1	0.05	9	0.22	2	334	0.20	99	67
3400	30	0.2	4.63	3	444	1.2	5	0.81	0.2	61	52	26	622	5.25	0.52	31	24	1.09	1780	3	0.05	37	0.20	2	126	0.21	117	102
4650E-3500N	20	0.2	3.31	4	380	0.9	5	1.38	0.2	41	11	21	46	3.26	0.40	16	11	0.66	1471	2	0.05	10	0.48	8	323	0.22	105	69
4650E-3550N	20	0.2	3.72	8	234	1.5	5	0.55	0.2	72	7	24	33	4.29	0.30	37	14	0.55	461	1	0.13	12	0.14	6	108	0.25	78	97
3600	30	0.2	3.97	3	387	0.8	5	0.95	0.2	38	13	29	57	4.19	0.55	15	14	1.01	1250	1	0.05	15	0.22	5	153	0.27	135	80
3650	10	0.2	5.17	4	682	1.0	5	0.95	0.2	60	16	26	90	4.59	0.93	31	19	1.57	1818	1	0.05	21	0.19	11	389	0.26	141	120
3700	10	0.2	4.49	4	248	0.9	5	0.88	0.2	58	10	29	44	3.69	0.44	27	15	0.80	524	1	0.07	15	0.22	4	175	0.22	111	84
4650E-3750N	10	0.2	2.76	2	388	0.2	5	0.59	0.2	21	11	5	162	5.51	0.61	7	9	1.75	596	1	0.03	4	0.17	2	302	0.41	200	63
4650E-3800N	15	0.2	3.64	4	305	0.4	5	1.55	0.2	41	13	27	124	4.38	0.46	13	12	1.37	627	1	0.10	19	0.16	2	174	0.32	145	73
3850	260	0.2	5.80	2	503	1.4	5	1.29	0.2	44	83	25	1609	7.67	0.45	15	25	1.91	1611	2	0.05	29	0.19	6	564	0.33	203	78
3900	35	0.2	4.51	2	859	0.8	5	1.16	0.2	63	15	23	116	4.40	0.62	27	21	1.21	932	1	0.07	19	0.15	10	213	0.28	131	96
3950	10	0.2	4.40	2	241	0.4	5	2.26	0.2	40	16	25	126	4.98	0.49	13	15	1.65	662	1	0.12	21	0.15	2	159	0.35	172	87
4650E-4000N	10	0.2	4.68	2	160	0.4	5	3.22	0.2	37	24	18	283	5.58	0.27	12	11	1.50	613	1	0.11	17	0.18	2	240	0.41	201	60
4650E-4050N	10	0.2	4.68	2	207	0.3	5	2.53	0.2	33	21	25	272	5.07	0.25	10	11	1.72	582	2	0.10	22	0.16	2	190	0.40	158	59
4100	10	0.2	4.44	2	252	0.5	5	2.73	0.2	40	18	26	140	4.67	0.36	14	12	1.60	653	1	0.11	20	0.14	2	288	0.36	162	71
4150	95	0.2	5.08	3	286	0.6	5	3.21	0.2	37	37	28	258	5.22	0.30	13	12	1.58	783	1	0.10	27	0.14	2	433	0.32	171	72
4200	15	0.2	6.36	2	302	1.0	5	1.44	0.2	51	57	26	705	7.48	0.80	19	21	2.81	2168	1	0.06	31	0.14	7	176	0.39	361	97
4650E-4250N	30	0.6	5.30	2	351	0.5	5	3.34	0.2	37	62	27	383	5.99	0.27	10	13	1.95	1119	1	0.13	32	0.13	2	360	0.35	184	134

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
4650E–4600N	15	0.2	6.19	2	61	0.7	5	3.41	0.2	34	41	45	195	7.61	0.16	10	26	4.17	1398	1	0.05	47	0.09	2	430	0.51	285	106
4700E–4300N •	15	0.2	4.46	4	155	0.4	5	3.28	0.2	32	33	25	307	5.38	0.24	10	11	1.66	781	1	0.10	31	0.14	2	399	0.32	176	72
4350 •	60	0.4	5.51	2	124	0.6	5	5.11	0.2	20	76	24	726	7.42	0.18	9	10	1.69	1059	1	0.09	41	0.11	2	610	0.34	209	65
4400 •	40	0.2	6.01	2	116	0.6	5	3.92	0.2	27	38	32	487	7.65	0.27	11	18	2.85	1262	1	0.05	38	0.12	2	472	0.35	231	84
4700E–4450N •	35	0.2	4.94	2	60	0.5	5	4.20	0.2	24	35	49	193	6.35	0.10	9	12	2.37	887	1	0.07	53	0.10	2	529	0.29	205	76
4700E–4500N •	30	0.2	6.10	2	84	0.8	5	5.15	0.2	15	62	53	696	5.67	0.12	7	11	2.14	1056	1	0.10	65	0.11	2	567	0.30	192	69
4550 •	5	0.2	5.46	2	128	0.6	5	2.58	0.2	27	36	51	123	6.32	0.42	11	31	3.44	1405	1	0.04	37	0.11	2	149	0.42	228	95
4700E–4600N	5	0.2	6.40	2	158	0.6	5	1.80	0.2	26	32	37	181	6.37	0.76	10	28	3.26	1577	1	0.03	35	0.09	2	107	0.56	276	96
4800N–4250E	5	0.2	4.90	2	478	0.8	5	1.62	0.2	40	20	27	111	4.43	0.44	15	20	1.90	809	1	0.09	22	0.14	2	139	0.28	136	76
4800N–4300E	10	0.4	3.84	2	256	0.4	5	1.17	0.2	30	18	27	245	4.12	0.26	10	13	1.41	625	4	0.07	20	0.20	2	120	0.29	126	74
4800N–4350E	10	0.4	4.03	2	387	0.3	5	1.96	0.2	35	31	24	365	6.01	0.41	11	12	1.90	712	6	0.09	23	0.14	2	202	0.36	171	69
4800N–4450E	20	0.2	4.45	2	211	0.3	5	2.88	0.2	31	47	26	443	6.91	0.25	9	9	1.77	863	17	0.11	24	0.14	2	251	0.39	188	68

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL (DARB LK.) – 148 **Geol.:** R.W. **Date received:** JULY 28 **LAB CODE:** 9308–001
Material: 187 Soils & 52 Rx **Sheet:** 1 of 6 **Date completed:** AUG. 06
Remarks: * Sample screened @ –35 MESH (0.5 mm)
■ Organic, & 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	1000W–300N	5	0.8	4.84	16	234	0.3	5	0.86	0.6	30	24	26	89	6.27	0.32	12	33	2.66	826	1	0.05	29	0.11	3	37	0.39	273	116
4	350	10	0.4	4.52	15	227	0.4	5	0.96	0.3	30	26	41	103	5.40	0.29	11	28	1.84	1342	1	0.04	33	0.21	4	63	0.28	188	104
5	400	40	0.4	4.96	11	258	0.4	5	1.05	0.5	32	21	30	108	5.81	0.32	11	34	2.28	857	1	0.06	32	0.12	5	67	0.30	204	120
6	450	10	0.2	4.25	16	277	0.3	5	1.04	0.6	32	18	54	83	6.19	0.30	11	17	1.71	760	1	0.05	34	0.13	8	70	0.31	245	79
7	1000W–500N	20	0.2	4.72	16	290	0.4	5	1.32	0.7	34	25	39	92	5.70	0.47	12	27	2.04	1098	1	0.07	36	0.08	6	73	0.28	199	94
8	1000W–600N	45	0.6	3.94	21	204	0.3	5	0.90	0.5	29	16	48	99	4.97	0.27	10	18	1.64	606	1	0.04	29	0.17	5	68	0.29	201	78
9	650	10	0.4	4.30	14	261	0.4	5	0.93	0.8	31	20	51	59	5.26	0.37	11	24	1.82	1333	1	0.05	33	0.16	7	60	0.26	202	97
10	700	30	0.2	4.30	13	215	0.4	5	0.84	0.8	31	21	46	53	5.66	0.30	12	23	1.66	1751	1	0.05	28	0.23	9	58	0.27	204	107
11	750	5	0.2	3.55	2	599	0.3	5	0.21	0.3	21	7	9	18	2.60	0.81	10	11	0.44	1228	1	0.05	6	0.21	2	26	0.21	91	57
12	1000W–800N	10	0.2	4.65	7	285	0.3	5	1.14	0.8	34	24	31	97	5.78	0.45	12	41	2.28	1244	1	0.11	29	0.10	5	52	0.31	210	138
13	1000W–850N	5	0.2	4.10	6	223	0.4	5	0.79	0.6	31	17	33	46	5.26	0.29	11	35	1.78	1152	1	0.05	23	0.22	6	50	0.28	195	169
14	900	5	0.2	4.11	4	208	0.3	5	0.66	0.8	30	14	32	52	4.96	0.30	11	28	1.67	770	1	0.05	22	0.17	4	38	0.27	187	108
15	950	5	0.2	3.59	5	136	0.2	5	0.68	0.7	28	17	16	42	4.53	0.11	10	34	1.50	697	1	0.04	13	0.10	2	59	0.26	161	88
16	1000	40	0.2	4.88	17	221	0.7	5	0.88	0.8	34	18	37	64	5.42	0.29	12	32	1.67	648	1	0.07	28	0.11	8	61	0.24	193	97
17	1000W–1050N	110	0.2	5.67	7	232	0.4	5	0.39	0.9	33	23	30	91	5.60	0.41	11	37	1.90	1394	1	0.05	31	0.10	3	21	0.27	179	99
18	1000W–1100N	55	0.2	4.45	10	284	0.2	5	0.50	0.9	27	20	19	80	5.56	0.46	11	37	1.93	1051	1	0.07	24	0.06	4	23	0.30	167	96
19	1150	5	0.2	4.44	9	247	0.3	5	0.77	0.8	31	19	24	94	5.22	0.30	11	39	2.16	1205	1	0.06	25	0.10	5	43	0.27	168	126
20	1200	5	0.4	4.67	9	290	0.3	5	1.10	1.0	32	22	25	105	5.42	0.43	11	40	2.27	1453	1	0.10	26	0.10	6	51	0.27	187	130
21	1250	10	0.6	5.31	6	270	0.4	5	0.77	0.5	29	21	23	123	5.82	0.30	13	50	2.43	1052	1	0.05	26	0.10	2	44	0.29	181	143
22	1000W–1300N	50	0.2	5.71	7	278	0.3	5	0.60	0.3	25	18	23	102	6.08	0.41	9	45	2.20	1657	1	0.12	19	0.12	2	27	0.33	174	124
23	1000W–1350N	15	0.2	4.19	3	194	0.2	5	0.81	0.4	29	18	17	140	5.73	0.30	11	38	2.12	1071	1	0.05	20	0.10	2	42	0.32	201	92
24	1400	20	0.2	4.66	4	282	0.2	5	1.08	0.3	28	12	10	54	4.91	0.50	9	38	1.59	878	1	0.09	9	0.11	2	50	0.27	125	124
25	1450	15	0.2	4.20	5	363	0.2	5	0.70	1.7	31	30	24	254	6.50	0.41	13	44	3.20	1454	1	0.06	37	0.09	2	20	0.37	320	300
26	1500	10	0.2	4.21	3	148	0.3	5	1.05	0.6	40	20	33	121	5.53	0.23	15	36	2.14	926	1	0.07	30	0.16	4	109	0.32	237	105
27	1000W–1550N	10	0.2	3.63	6	271	0.2	5	0.93	0.9	39	21	26	103	5.61	0.38	16	30	2.27	1582	1	0.06	29	0.11	5	80	0.29	228	123
28	1000W–1600N	20	0.2	5.17	10	376	0.3	5	0.95	0.7	31	25	33	127	5.85	0.58	11	46	2.89	1310	1	0.06	34	0.10	3	45	0.24	188	161
29	1650	15	0.2	4.50	6	305	0.3	5	1.12	1.1	34	25	40	111	5.94	0.53	12	39	2.59	1425	1	0.07	35	0.09	4	52	0.26	205	138
30	1800	20	0.2	4.61	8	349	0.3	5	1.29	0.9	34	21	17	95	5.23	0.64	11	34	2.05	2577	1	0.05	18	0.09	3	74	0.25	148	126
31	1950	20	0.2	4.46	11	257	0.4	5	1.84	1.0	39	28	32	110	6.51	0.41	15	36	2.44	1139	1	0.09	29	0.09	8	125	0.32	258	105
32	1000W–2000N	5	0.2	4.70	2	368	0.3	5	1.61	0.7	38	23	20	122	5.69	0.49	14	33	2.35	1178	1	0.07	25	0.09	2	148	0.32	211	118
33	1000W–2100N	5	0.2	4.91	7	381	0.5	5	1.65	0.6	45	21	27	126	5.56	0.52	19	29	2.15	1067	1	0.08	29	0.09	6	142	0.32	213	126
34	2150	60	0.2	4.62	2	476	0.3	5	1.03	0.7	38	20	22	101	5.56	0.59	15	26	2.07	1085	1	0.09	23	0.08	2	87	0.31	186	128
35	2250	5	0.2	4.93	11	360	0.4	5	1.67	0.8	43	25	31	145	5.79	0.49	17	26	2.62	1168	1	0.09	38	0.09	7	106	0.30	209	141
36	2300	5	0.2	5.40	12	370	0.4	5	1.90	0.8	42	31	36	153	6.12	0.47	16	24	2.54	1240	1	0.12	49	0.09	7	97	0.32	220	159
37	1000W–2400N	5	0.2	5.33	13	315	0.4	5	2.14	0.8	41	26	28	153	5.97	0.45	15	25	2.41	1235	1	0.13	33	0.10	6	98	0.31	183	121

13/08 GP

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	1000W-2450N	20	0.2	5.11	5	433	0.3	5	1.30	1.0	43	21	30	113	5.49	0.54	16	23	1.85	1401	1	0.06	29	0.09	10	120	0.29	173	130
39	3000E-100S	5	0.2	4.84	15	259	0.5	5	3.30	0.9	35	19	24	79	5.05	0.56	14	16	1.97	1661	1	0.05	21	0.24	20	165	0.34	137	124
40	150	5	0.2	6.10	26	277	0.5	5	1.69	0.8	45	23	30	74	5.95	0.53	14	17	1.84	1272	1	0.06	22	0.16	8	169	0.39	161	102
41	250	5	0.2	5.37	12	256	0.6	5	1.71	0.5	42	22	28	97	5.18	0.53	17	20	1.61	955	1	0.08	24	0.15	4	189	0.34	158	125
42	3000E-350S	5	0.2	6.44	11	293	0.5	5	1.70	0.4	40	43	15	140	5.66	0.48	14	17	1.96	1486	1	0.07	18	0.12	2	182	0.26	154	100
43	3000E-500S	5	0.2	7.31	65	576	0.6	5	1.70	0.5	35	58	74	125	5.95	0.95	12	25	3.63	1656	1	0.06	100	0.11	2	311	0.44	240	95
44	550	5	0.2	6.05	10	275	0.4	5	2.13	0.5	37	26	23	109	5.61	0.49	14	17	1.86	835	1	0.13	29	0.13	2	287	0.28	210	116
45	600	5	0.2	5.24	15	268	0.4	5	2.40	0.6	39	30	22	108	5.46	0.43	14	15	1.69	1091	1	0.07	27	0.11	4	329	0.31	177	100
46	650	5	0.2	6.77	13	256	0.4	5	1.13	0.9	35	26	17	84	5.73	0.53	13	17	2.02	1072	1	0.22	25	0.12	2	139	0.13	186	119
47	3000E-700S	5	0.2	6.28	16	365	0.4	5	2.44	0.6	39	25	19	84	5.32	0.63	16	15	1.82	1135	2	0.08	26	0.13	2	511	0.33	216	113
48	3000E-750S	30	0.2	6.14	18	317	0.4	5	2.55	1.0	35	29	18	95	5.62	0.55	14	13	1.93	1259	1	0.09	25	0.12	2	385	0.34	197	117
51	3000E-50N	5	0.2	5.80	9	271	0.7	5	1.56	0.6	44	21	31	94	5.37	0.40	17	17	1.65	988	1	0.06	23	0.13	2	165	0.35	149	89
52	100	5	0.2	6.24	9	156	0.4	5	3.63	0.5	29	26	21	117	5.34	0.18	14	12	1.50	1473	1	0.04	39	0.12	2	349	0.37	238	83
53	150	5	0.2	5.44	7	163	0.4	5	2.02	0.4	35	15	31	49	5.17	0.22	13	12	1.46	588	1	0.05	19	0.20	2	264	0.47	209	82
54	3000E-200N	5	1.2	5.46	10	198	0.3	5	3.02	1.5	33	78	18	271	9.81	0.30	14	11	1.85	2677	1	0.03	53	0.15	11	428	0.42	246	113
55	3000E-250N	5	0.2	6.51	14	258	0.5	5	2.44	0.8	37	32	29	99	6.24	0.34	13	16	2.17	1216	1	0.06	37	0.16	2	299	0.41	217	119
56	300	5	0.2	6.02	13	249	0.4	5	1.91	0.7	38	25	30	63	5.96	0.40	13	18	2.22	1097	1	0.06	26	0.18	2	242	0.44	202	132
57	350	5	0.2	5.30	9	201	0.4	5	2.63	1.0	33	30	39	121	6.12	0.35	14	20	2.38	1065	1	0.05	37	0.14	5	416	0.40	223	91
58	400	5	0.2	5.96	18	225	0.4	5	2.08	1.0	34	38	43	131	6.60	0.30	12	20	2.70	1313	1	0.05	50	0.12	3	358	0.40	221	102
59	3000E-450N	5	0.2	5.27	17	258	0.3	5	2.61	0.9	32	27	30	112	5.59	0.34	12	16	2.20	993	1	0.05	37	0.12	4	292	0.35	194	107
60	3000E-500N	5	0.2	5.19	12	173	0.4	5	2.11	0.7	33	26	32	53	5.28	0.23	11	14	1.88	1426	1	0.04	21	0.24	4	254	0.47	174	102
61	550	5	0.2	5.25	2	162	0.4	5	2.29	0.3	27	16	36	42	4.87	0.24	11	14	1.66	738	1	0.05	21	0.16	2	190	0.42	185	78
62	600	5	0.4	4.95	2	172	0.3	5	1.92	0.3	29	15	38	36	4.70	0.30	9	13	1.58	800	1	0.05	22	0.18	2	201	0.45	192	74
63	650	5	0.2	5.58	2	217	0.4	5	2.28	0.3	31	24	33	100	5.68	0.33	11	20	2.06	1149	1	0.07	31	0.13	2	158	0.38	212	98
64	3000E-700N	10	0.2	4.83	2	226	0.3	5	1.69	0.3	31	19	28	52	5.46	0.32	11	23	1.94	839	1	0.06	25	0.11	2	104	0.36	211	97
65	3000E-750N	370	0.2	5.05	2	138	0.3	5	1.56	0.3	32	17	34	36	5.59	0.27	10	24	1.74	762	1	0.06	20	0.13	2	111	0.39	226	97
66	800	5	0.2	5.99	4	184	0.4	5	2.39	0.4	31	27	26	69	5.77	0.37	11	17	1.85	1411	1	0.05	30	0.16	2	224	0.38	192	94
67	850	5	0.2	5.63	2	269	0.3	5	2.41	0.3	31	16	26	63	5.29	0.45	10	14	1.55	868	1	0.07	25	0.12	2	162	0.39	196	91
68	900	35	0.2	5.45	4	167	0.5	5	2.64	0.4	34	19	27	68	5.09	0.30	13	15	1.71	927	1	0.06	25	0.16	2	202	0.39	189	106
69	3000E-950N	5	0.2	5.15	4	170	0.3	5	2.50	0.3	30	17	32	54	4.61	0.30	10	13	1.74	798	1	0.05	27	0.12	2	228	0.35	181	73
70	3000E-1000N	5	0.4	5.18	2	167	0.3	5	2.73	0.3	31	19	27	60	4.92	0.31	11	13	1.69	887	1	0.07	26	0.11	4	174	0.36	196	83
71	1050	10	0.2	4.72	9	215	0.4	5	2.75	0.7	34	19	30	77	4.72	0.36	14	15	1.49	816	1	0.07	23	0.09	2	161	0.30	194	70
72	1100	30	0.2	4.81	7	188	0.3	5	2.74	0.3	34	19	33	71	4.69	0.34	12	12	1.53	841	1	0.07	24	0.09	2	170	0.32	188	70
73	1150	35	0.2	5.38	17	207	0.6	5	2.43	0.4	39	15	36	108	4.82	0.36	16	17	1.59	771	1	0.07	26	0.24	2	127	0.30	172	98
74	3000E-1200N	10	0.2	5.13	4	146	0.3	5	2.13	0.3	36	10	34	31	4.46	0.26	12	12	1.23	563	1	0.06	18	0.12	3	126	0.41	181	69
75	3000E-1250N	10	0.2	5.57	4	201	0.4	5	1.83	0.5	40	20	36	88	5.77	0.37	15	30	1.85	830	1	0.07	28	0.14	4	122	0.36	228	106
76	8400E-10400N	180	0.4	5.92	18	232	0.4	5	2.28	0.8	39	32	38	227	6.19	0.48	16	37	3.11	1363	1	0.15	68	0.11	32	79	0.30	227	123
77	10500	35	0.4	5.91	13	203	0.4	5	2.28	0.7	40	32	42	193	6.35	0.30	15	29	3.03	1220	1	0.15	53	0.14	19	89	0.35	227	123
78	10600	430	0.2	5.46	16	126	0.4	5	2.59	0.8	43	28	41	151	5.88	0.25	16	25	2.80	1081	1	0.16	48	0.11	9	79	0.32	223	104
79	8400E-10700N	55	0.2	5.44	12	155	0.3	5	2.63	0.8	37	30	36	143	6.11	0.27	14	24	2.96	1103	1	0.16	45	0.12	7	106	0.33	232	104
80	8400E-10800N	35	0.4	6.55	13	301	0.4	5	2.20	1.2	39	33	33	238	6.63	0.56	15	31	3.23	1504	1	0.14	49	0.12	41	113	0.31	243	157
81	10900	45	0.2	5.33	10	196	0.4	5	1.69	0.7	36	31	45	140	6.10	0.32	14	25	2.92	1234	1	0.11	40	0.08	12	85	0.23	224	97
82	11000	85	0.2	5.03	8	252	0.2	5	1.35	0.3	34	27	20	161	6.05	0.34	13	38	2.80	1061	1	0.14	32	0.09	9	38	0.38	223	102
83	11100	30	0.2	4.92	3	186	0.3	5	2.13	0.7	32	23	39	87	5.61	0.24	12	22	2.66	1037	1	0.15	39	0.11	10	61	0.30	196	98
84	8400E-11200N	25	0.2	5.75	4	209	0.3	5	1.51	0.3	35	28	29	189	6.19	0.28	13	32	3.22	953	1	0.12	47	0.12	8	48	0.36	220	110

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	8400E-11300N	25	0.4	5.53	7	210	0.4	5	1.76	0.5	41	26	30	211	5.76	0.28	15	28	2.93	1030	1	0.12	44	0.12	3	67	0.32	212	113
86	11400	20	0.2	4.99	4	180	0.3	5	2.05	0.4	35	23	35	109	5.45	0.24	13	19	2.49	908	1	0.14	35	0.12	2	97	0.29	196	89
87	11500	25	0.4	5.74	6	248	0.3	5	1.96	0.6	31	29	27	180	5.86	0.20	10	31	3.24	941	1	0.12	43	0.10	10	81	0.32	201	105
88	11600	160	0.4	4.13	2	322	0.3	5	1.01	0.4	33	17	23	52	4.73	0.31	12	16	1.91	925	1	0.10	22	0.16	9	83	0.25	160	91
89	8400E-11700N	130	0.2	4.43	33	290	0.3	5	1.21	0.5	37	20	20	34	5.94	0.45	12	29	2.58	1211	1	0.13	26	0.12	4	32	0.41	207	86
90	8400E-13200N	15	0.2	4.78	5	164	0.3	5	2.24	0.6	33	28	21	186	5.95	0.21	12	15	2.19	989	1	0.16	27	0.11	3	73	0.36	192	83
91	13300	30	0.4	4.49	8	145	0.4	5	1.85	0.4	33	22	25	159	5.82	0.26	12	14	1.74	741	3	0.12	20	0.13	3	68	0.32	172	75
92	13400	50	0.2	4.88	2	89	0.3	5	1.43	0.2	28	12	32	64	5.51	0.11	9	10	1.35	517	1	0.09	19	0.11	2	57	0.31	182	57
93	13500	60	0.4	4.54	2	125	0.3	5	2.00	0.2	31	18	24	108	5.40	0.17	10	11	1.66	889	1	0.13	21	0.11	2	81	0.31	182	70
94	8400E-13600N	30	0.2	4.09	2	214	0.3	5	1.68	0.2	30	22	16	331	5.60	0.23	10	14	1.74	918	1	0.10	21	0.15	2	74	0.31	183	95
95	8400E-13700N	40	0.2	4.53	3	313	0.3	5	1.71	0.5	34	29	15	240	5.67	0.47	12	15	1.77	1059	3	0.11	28	0.09	2	102	0.31	196	116
96	13800	20	0.4	4.25	4	178	0.3	5	1.38	0.2	29	16	15	152	4.45	0.18	9	10	1.08	711	4	0.08	17	0.15	2	77	0.27	135	75
97	13900	20	0.2	4.38	8	249	0.4	5	1.97	0.5	37	39	16	228	5.71	0.26	14	14	1.61	1313	5	0.10	33	0.10	2	124	0.33	221	124
98	14000	170	0.2	5.57	2	152	0.3	5	1.19	0.2	29	14	19	114	4.46	0.23	9	9	1.13	778	2	0.07	14	0.16	2	54	0.25	130	81
101	8400E-14100N	10	0.2	4.02	5	181	0.5	5	1.13	0.5	34	16	24	107	3.98	0.20	14	12	0.92	858	2	0.07	14	0.22	2	69	0.26	132	66
102	8400E-14200N	30	0.2	4.61	6	267	0.3	5	1.99	0.2	37	22	20	218	6.38	0.31	14	12	1.82	936	6	0.12	20	0.11	2	107	0.37	212	86
103	14300	15	0.2	4.77	2	237	0.3	5	2.02	0.3	33	17	22	154	5.11	0.25	12	11	1.59	861	1	0.12	18	0.21	2	115	0.33	194	77
104	14400	150	0.2	7.51	2	369	0.4	5	2.82	0.4	28	40	31	258	7.67	0.32	11	26	4.49	1226	1	0.22	49	0.08	2	175	0.46	377	90
105	14500	20	0.2	6.07	2	189	0.3	5	2.70	0.2	30	22	26	193	6.22	0.14	11	15	2.33	713	1	0.18	26	0.10	2	133	0.38	244	76
106	8400E-14600N	10	0.2	4.47	6	126	0.3	5	3.83	0.7	21	47	22	89	8.93	0.15	10	12	3.23	1091	1	0.27	40	0.09	4	142	0.54	416	94
107	8400E-14700N	30	0.2	4.33	2	174	0.3	5	3.31	0.8	25	37	36	91	7.67	0.20	10	14	3.03	1142	1	0.27	40	0.10	15	118	0.50	371	85
108	14800	10	0.2	4.44	8	115	0.3	5	3.39	0.3	25	29	52	162	5.94	0.17	10	14	2.79	775	1	0.26	43	0.13	2	127	0.37	242	76
109	8400E-14900N	10	0.2	3.79	14	89	0.3	5	3.30	0.5	25	33	84	106	6.56	0.15	10	12	3.03	800	1	0.29	63	0.10	2	112	0.38	276	67
110	8500E-13200N	15	0.2	4.78	3	186	0.3	5	1.38	0.4	37	26	17	251	6.05	0.33	13	14	1.71	922	1	0.10	15	0.13	2	47	0.35	184	84
111	8600E-13700N	100	0.2	4.66	7	151	0.4	5	2.47	0.5	32	58	27	517	6.32	0.26	13	20	2.06	965	6	0.18	30	0.08	2	92	0.32	209	95
112	8600E-13800N	140	0.6	5.25	4	245	0.3	5	2.31	0.3	30	28	15	505	7.31	0.40	11	13	1.98	793	2	0.11	20	0.11	2	129	0.37	224	78
113	13900	85	0.4	7.10	2	107	0.3	5	2.20	0.2	28	21	16	305	7.05	0.15	9	12	1.74	637	2	0.12	16	0.11	2	82	0.31	217	72
114	14000	45	0.2	4.79	2	199	0.3	5	1.95	0.2	31	21	16	225	5.54	0.18	10	11	1.65	677	3	0.12	15	0.09	2	96	0.29	150	68
115	14100	15	0.2	5.01	2	149	0.3	5	1.49	0.2	29	10	16	164	4.75	0.09	9	9	0.98	456	2	0.07	11	0.11	2	72	0.23	117	52
116	8600E-14200N	20	0.2	5.18	2	227	0.3	5	1.50	0.3	32	9	12	161	5.71	0.30	11	10	1.53	631	2	0.07	10	0.12	2	88	0.28	126	55
117	8600E-14300N	20	0.2	5.57	2	115	0.4	5	1.19	0.2	35	14	21	103	4.53	0.17	12	10	1.10	641	1	0.10	15	0.12	2	55	0.24	130	75
118	14400	15	0.4	4.28	2	147	0.3	5	1.72	0.2	33	8	19	100	5.59	0.13	10	7	1.17	554	6	0.11	13	0.13	2	73	0.36	224	67
119	14500	200	0.2	3.64	2	585	0.2	5	1.52	0.4	33	40	12	342	6.68	0.36	11	10	1.70	1024	11	0.09	16	0.09	2	135	0.32	171	76
120	8600E-14600N	50	0.2	5.46	2	172	0.4	5	2.41	0.3	32	33	24	265	6.18	0.17	12	14	2.13	1167	1	0.20	25	0.14	2	116	0.37	245	77
121	8800E-11000N	15	0.4	3.30	7	313	0.3	5	1.35	0.7	38	8	15	174	5.89	0.45	15	11	1.51	706	2	0.07	9	0.12	3	61	0.28	111	64
122	8800E-11100N	30	0.2	5.29	9	191	0.4	5	1.45	0.3	35	24	34	241	5.40	0.21	12	24	2.17	1161	1	0.10	31	0.14	7	80	0.27	185	83
123	11200	35	0.2	5.01	7	173	0.3	5	1.97	0.3	37	22	34	128	5.20	0.27	14	20	2.25	1064	1	0.13	32	0.14	5	93	0.27	186	85
124	11300	45	0.2	5.51	3	330	0.4	5	1.46	0.8	38	43	26	347	6.48	0.52	15	25	2.55	1281	1	0.10	39	0.12	13	76	0.31	187	103
125	11400	35	0.2	5.97	9	247	0.4	5	2.69	0.5	31	26	23	164	5.54	0.37	13	26	2.77	1048	1	0.16	38	0.09	3	150	0.32	202	89
126	8800E-11500N	210	0.2	5.54	10	333	0.3	5	2.09	0.5	35	26	18	131	6.12	0.49	13	26	2.61	1232	1	0.17	27	0.09	10	104	0.32	214	108
127	8800E-11600N	80	0.2	5.35	7	307	0.3	5	2.52	0.6	33	25	20	126	5.59	0.41	13	24	2.61	1190	1	0.15	31	0.08	16	114	0.26	187	98
128	11700	115	0.2	5.65	5	223	0.4	5	1.80	0.4	39	31	30	196	5.46	0.36	15	19	2.01	1004	1	0.12	29	0.13	5	104	0.25	173	84
129	11800	110	0.2	5.89	17	304	0.3	5	0.98	0.2	32	18	19	148	5.33	0.54	11	16	1.36	746	1	0.15	15	0.20	2	143	0.14	166	59
130	11900	75	0.4	6.18	19	227	0.5	5	2.35	0.4	35	41	22	343	5.92	0.35	13	20	2.05	1296	1	0.10	32	0.18	4	166	0.26	163	87
131	8800E-12000N	125	0.2	5.80	2	167	0.4	5	2.54	0.3	30	27	24	125	5.33	0.26	13	16	2.01	1176	1	0.11	23	0.13	2	119	0.30	187	70

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	8800E-12200N	80	0.4	5.00	2	188	0.3	5	2.53	0.2	29	51	18	307	7.99	0.23	10	13	2.14	1036	21	0.13	22	0.13	3	234	0.30	187	66
133	12300	20	0.2	5.24	2	244	0.3	5	2.18	0.3	28	33	22	219	5.67	0.35	10	26	2.90	1058	1	0.13	37	0.09	2	105	0.31	180	94
134	12400	30	0.2	5.56	2	224	0.4	5	1.44	0.5	29	31	26	376	5.48	0.27	9	21	2.50	895	1	0.08	34	0.14	2	70	0.30	164	78
135	12600	130	0.2	5.91	2	160	0.3	5	3.54	0.2	22	36	12	298	5.64	0.26	9	16	2.40	917	1	0.14	23	0.08	2	185	0.32	202	66
136	8800E-12700N	110	0.2	4.79	2	222	0.3	5	2.23	0.2	30	30	17	252	5.63	0.39	11	16	2.39	924	2	0.12	25	0.09	2	122	0.31	183	70
137	8800E-12800N	45	0.2	4.78	2	215	0.3	5	2.15	0.2	31	30	20	234	5.75	0.31	11	17	2.40	890	2	0.13	28	0.08	2	99	0.31	196	71
138	12900	10	0.2	3.88	3	154	0.3	5	1.18	0.2	29	15	20	171	3.87	0.17	9	10	1.15	487	2	0.08	15	0.18	2	72	0.22	107	61
139	13000	70	0.2	4.81	4	196	0.3	5	2.71	0.3	30	29	15	259	6.16	0.39	11	13	1.84	1220	1	0.13	18	0.10	2	164	0.29	188	78
140	13100	10	0.2	4.92	2	156	0.3	5	3.03	0.3	27	25	21	145	5.74	0.18	11	12	2.01	852	2	0.14	21	0.09	2	130	0.32	197	70
141	8800E-13200N	15	0.2	5.93	2	126	0.4	5	2.05	0.2	30	17	26	101	5.53	0.13	11	10	1.28	608	3	0.10	15	0.12	2	92	0.26	160	52
142	8800E-13300N	5	0.2	5.88	2	88	0.3	5	1.92	0.2	28	15	22	90	5.20	0.12	10	10	1.46	624	1	0.10	15	0.11	2	68	0.27	160	64
143	13400	35	0.2	5.17	2	144	0.4	5	2.85	0.2	28	24	24	160	5.51	0.25	11	16	2.03	900	3	0.13	22	0.11	2	111	0.32	188	83
144	13500	40	0.2	5.10	2	100	0.4	5	2.13	0.2	33	37	23	321	5.79	0.16	12	16	1.67	711	4	0.13	21	0.14	2	65	0.31	175	98
145	13600	10	0.2	4.01	2	79	0.2	5	1.86	0.2	32	10	20	43	4.86	0.15	11	8	1.29	586	1	0.12	13	0.08	2	61	0.32	174	61
146	8800E-13700N	10	0.2	4.25	2	93	0.3	5	2.33	0.2	36	38	20	131	5.51	0.19	14	16	1.63	1133	11	0.13	17	0.10	2	87	0.38	196	101
147	8900E-12000N	110	0.2	5.44	2	175	0.5	5	2.32	0.2	40	20	30	305	5.34	0.28	16	23	2.21	774	1	0.15	34	0.15	2	108	0.30	183	78
148	12100	35	0.2	5.52	2	236	0.4	5	1.92	0.2	36	21	26	139	5.11	0.41	13	17	1.96	852	1	0.11	25	0.15	2	117	0.29	180	77
151	12200	40	0.2	6.10	2	283	0.6	5	2.04	0.4	42	45	41	372	6.70	0.54	17	22	2.66	1903	1	0.10	39	0.14	2	134	0.27	225	88
152	12300	20	0.2	5.07	2	111	0.4	5	2.96	0.2	32	27	35	263	5.78	0.25	13	17	2.38	895	2	0.16	32	0.07	2	124	0.32	207	72
153	8900E-12400N	35	0.2	5.04	2	219	0.4	5	2.81	0.2	34	38	31	258	6.39	0.34	12	14	2.22	1082	1	0.15	33	0.09	2	138	0.30	184	69
154	8900E-12500N	30	0.2	5.34	2	176	0.3	5	2.63	0.2	33	27	26	166	5.86	0.18	12	13	2.14	826	1	0.16	28	0.12	2	101	0.35	184	69
155	12600	110	0.2	5.11	2	199	0.3	5	2.53	0.2	31	23	19	235	5.28	0.24	11	16	2.26	722	1	0.13	22	0.10	2	122	0.33	184	72
156	12700	35	0.2	4.57	2	308	0.3	5	1.90	0.2	32	41	18	322	5.54	0.34	11	15	1.93	1004	4	0.11	19	0.11	2	112	0.29	161	74
157	12800	20	0.2	5.64	2	148	0.3	5	2.72	0.2	32	23	22	150	5.38	0.20	12	13	2.00	875	1	0.13	22	0.11	2	121	0.31	176	64
158	8900E-12900N	20	0.2	6.93	2	216	0.5	5	3.05	0.2	31	32	25	240	6.20	0.39	12	23	2.52	1090	1	0.18	28	0.10	2	137	0.36	220	76
159	8900E-13000N	35	0.2	5.82	2	233	0.3	5	1.73	0.2	34	19	28	150	5.44	0.30	11	14	1.51	817	2	0.09	19	0.17	2	110	0.29	174	67
160	13100	40	0.2	4.95	2	122	0.3	5	3.08	0.3	30	26	27	182	5.60	0.19	11	14	2.16	868	2	0.15	24	0.08	2	122	0.33	192	69
161	13200	35	0.2	4.59	2	107	0.2	5	2.46	0.2	29	16	20	79	5.21	0.14	10	9	1.52	717	1	0.12	16	0.13	2	103	0.33	180	56
162	13300	45	0.2	5.74	2	125	0.3	5	2.51	0.2	29	22	15	248	6.97	0.15	10	10	1.49	757	11	0.10	13	0.11	2	91	0.27	156	65
163	8900E-13400N	780	0.2	2.93	2	52	0.2	5	1.87	0.2	31	5	19	57	3.94	0.10	10	4	0.57	363	4	0.06	8	0.10	2	110	0.37	185	37
164	8900E-13500N	15	0.2	3.95	2	163	0.2	5	2.55	0.2	31	8	19	78	7.70	0.26	11	8	1.43	774	3	0.12	13	0.15	3	106	0.40	212	79
165	13610	10	0.2	6.17	2	83	0.3	5	1.99	0.2	30	11	13	96	5.98	0.09	9	10	1.51	667	3	0.13	10	0.08	2	52	0.32	176	61
166	13700	15	0.2	5.73	2	103	0.3	5	2.10	0.2	31	13	21	65	5.42	0.13	10	8	1.26	645	1	0.10	14	0.10	2	88	0.29	165	68
167	13800	15	0.2	4.51	2	63	0.2	5	1.80	0.2	29	8	22	41	6.02	0.13	9	9	1.38	528	1	0.09	12	0.09	2	68	0.40	230	64
168	8900E-13900N	45	0.4	6.18	2	90	0.3	5	2.25	0.2	30	15	22	82	5.86	0.12	10	10	1.30	582	1	0.10	15	0.10	2	119	0.31	184	64
169	8900E-14000N	180	1.0	4.61	136	24	0.5	10	3.60	0.2	30	76	26	880	11.28	0.05	17	7	0.68	1074	37	0.03	36	0.16	22	270	0.18	627	83
170	9000E-11000N	20	0.2	4.71	2	149	0.3	5	1.85	0.2	33	19	27	142	5.42	0.24	11	14	1.81	762	1	0.12	19	0.12	2	61	0.27	161	69
171	11100	50	0.2	3.64	2	393	0.3	5	1.55	0.2	41	7	8	121	4.97	0.44	15	11	1.20	511	5	0.07	7	0.14	2	66	0.34	115	45
172	11200	15	0.2	5.50	2	154	0.3	5	1.75	0.2	35	20	37	138	5.51	0.25	13	18	2.03	702	1	0.12	28	0.11	2	72	0.27	202	77
173	9000E-11300N	25	0.2	6.54	2	149	0.4	5	2.06	0.2	32	27	25	167	5.83	0.28	11	20	2.50	802	1	0.19	31	0.12	2	95	0.29	232	88
174	9000E-11400N	65	0.2	5.10	2	184	0.3	5	1.93	0.2	35	22	34	134	5.27	0.24	12	17	2.12	1025	1	0.12	28	0.14	4	86	0.27	180	83
175	11500	70	0.2	4.84	2	186	0.3	5	1.52	0.2	34	18	31	110	4.65	0.30	11	18	1.84	908	1	0.10	26	0.16	4	76	0.25	164	90
176	11600	190	0.2	5.27	5	208	0.3	5	1.87	0.2	36	23	37	115	5.43	0.29	12	21	2.42	845	1	0.12	36	0.10	6	88	0.28	191	92
177	11700	140	0.2	5.34	4	189	0.3	5	2.01	0.2	37	23	38	109	5.51	0.19	12	20	2.31	765	1	0.12	34	0.09	6	94	0.30	187	81
178	9000E-11800N	260	0.2	4.87	4	187	0.3	5	2.10	0.3	35	24	31	143	5.40	0.25	12	18	2.23	937	1	0.13	32	0.11	2	87	0.30	187	80

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
179	9000E-11900N	70	0.2	5.07	2	167	0.3	5	2.63	0.3	33	27	23	127	5.88	0.31	11	15	2.22	1075	1	0.14	25	0.09	2	141	0.30	197	75
180	12000	30	0.2	5.33	2	156	0.4	5	2.06	0.3	35	23	26	118	5.06	0.21	11	12	1.70	765	1	0.10	21	0.10	2	98	0.24	164	69
181	12100	15	0.2	3.99	2	171	0.3	5	1.84	0.3	33	19	23	126	5.14	0.29	12	12	1.83	792	2	0.14	19	0.11	2	81	0.35	179	75
182	12200	10	0.2	5.52	2	202	0.3	5	2.50	0.2	33	23	24	142	6.17	0.27	12	15	2.05	853	4	0.15	26	0.12	2	112	0.36	209	81
183	9000E-12300N	15	0.2	4.57	2	171	0.3	5	2.37	0.2	33	17	18	151	5.57	0.24	12	12	1.80	733	1	0.15	20	0.13	2	116	0.38	206	73
184	9000E-12400N	10	0.2	5.00	2	169	0.3	5	2.29	0.2	33	18	28	86	5.65	0.17	11	12	1.84	1065	1	0.13	25	0.12	2	105	0.35	188	67
185	12500	5	0.2	7.10	2	113	0.4	5	1.50	0.2	29	13	29	77	4.59	0.10	9	8	1.16	502	1	0.08	17	0.13	2	62	0.24	130	53
186	12600	10	0.4	5.18	2	129	0.4	5	2.64	0.2	31	25	21	135	5.68	0.20	11	17	1.81	651	4	0.14	25	0.16	2	92	0.33	165	76
187	12700	75	0.2	5.23	2	252	0.3	5	2.40	0.2	32	30	20	253	6.02	0.36	11	18	2.53	931	2	0.14	25	0.09	2	139	0.34	197	71
188	9000E-12800N	15	0.2	4.93	2	206	0.3	5	2.33	0.2	32	17	20	171	5.59	0.25	11	11	1.86	782	1	0.13	20	0.10	2	96	0.33	179	73
189	9000E-12900N	10	0.2	5.16	2	196	0.3	5	2.97	0.2	30	21	25	151	5.92	0.27	12	12	2.08	849	1	0.14	23	0.10	2	128	0.35	208	75
190	13000	35	0.2	4.83	2	231	0.3	5	2.58	0.2	31	20	24	140	5.82	0.30	12	11	1.93	959	2	0.14	23	0.10	2	100	0.32	192	96
191	13100	60	0.2	5.17	2	173	0.4	5	2.78	0.2	32	18	23	147	5.63	0.26	15	13	1.74	861	2	0.12	20	0.12	2	131	0.35	195	85
192	9000E-13200N	10	0.2	4.34	2	253	0.2	5	2.36	0.2	32	10	20	90	5.10	0.34	14	8	1.51	832	6	0.09	11	0.10	2	156	0.35	227	75

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL PITS – 148 | Geol.:T.W. | Date received: AUG. 27 | LAB CODE: 9309–005
Material: 282 Soils | Sheet: 1 of 7 | Date completed: SEP. 14
Remarks: * Sample screened @ –35 MESH (0.5 mm)
Organic, Δ Humus, $ 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, Ca, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

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
	2000W–600N	15	1.0	4.53	25	333	0.3	5	0.97	0.2	33	23	68	119	6.32	0.26	11	47	2.23	1082	1	0.05	35	0.15	2	61	0.27	224	108
	650	10	0.2	5.86	20	233	0.3	5	0.64	0.3	27	52	426	113	7.92	0.09	10	58	5.78	1891	1	0.02	259	0.15	2	16	0.21	253	95
	700	10	0.2	5.51	11	218	1.5	5	0.60	0.2	20	17	21	19	7.38	0.71	4	61	2.77	2581	1	0.04	13	0.08	6	20	0.44	247	84
	750	60	0.2	5.02	18	345	0.4	5	1.24	0.2	38	19	52	89	5.65	0.43	11	25	1.81	708	1	0.06	35	0.10	3	77	0.21	185	77
	2000W–800N	25	0.2	4.70	16	335	0.5	5	1.15	0.2	40	20	54	62	6.03	0.44	12	26	1.80	848	1	0.06	34	0.15	5	70	0.23	190	95
	2000W–850N	110	1.0	5.20	32	637	0.6	5	1.10	0.2	39	26	61	145	7.19	0.86	14	34	1.67	962	1	0.10	41	0.15	10	72	0.16	252	115
	900	190	0.6	5.17	32	599	0.6	5	0.45	0.2	34	20	59	120	7.11	0.84	15	29	1.31	730	1	0.10	37	0.18	6	54	0.15	232	114
0	950	30	0.4	5.76	26	311	0.5	5	1.23	0.3	45	22	46	167	7.25	0.42	16	39	2.13	1019	1	0.07	32	0.29	6	68	0.30	249	137
1	1000	120	0.4	3.88	44	344	0.4	5	0.40	0.3	28	20	85	121	5.73	0.43	13	27	1.46	732	1	0.06	37	0.11	4	39	0.13	200	109
2	2000W–1050N	60	0.2	5.22	20	254	0.3	5	0.37	0.6	26	24	100	109	6.02	0.30	11	34	2.43	1453	1	0.05	41	0.17	4	21	0.20	248	96
3	2000W–1100N	200	0.4	3.44	61	369	0.4	5	0.38	0.5	27	32	75	155	5.99	0.48	12	27	1.47	1170	1	0.05	48	0.07	4	39	0.11	202	106
4	1150	220	0.2	3.36	64	364	0.4	5	0.33	0.5	28	29	77	134	5.76	0.48	12	26	1.48	960	1	0.05	47	0.07	6	38	0.11	201	104
5	1200	310	1.0	3.59	79	426	0.4	5	0.53	0.4	33	32	76	139	6.16	0.53	13	27	1.46	1347	1	0.05	45	0.10	5	44	0.14	210	117
6	2000W–1250N	290	1.2	3.68	72	443	0.5	5	0.66	0.4	36	28	88	162	6.27	0.52	14	26	1.29	996	1	0.06	48	0.11	8	48	0.12	224	120
7	2200W–1200N	190	0.8	3.51	50	525	0.5	5	0.47	0.5	35	29	88	135	6.12	0.55	13	21	1.15	1166	1	0.07	48	0.11	12	52	0.11	198	124
8	2200W–1250N	310	1.2	3.53	60	523	0.5	5	0.39	0.6	34	39	87	163	7.00	0.54	14	23	1.36	1427	2	0.09	61	0.08	10	63	0.11	217	133
9	2400W–600N	65	0.6	4.12	25	345	0.5	5	1.34	0.6	45	21	50	88	5.22	0.44	14	35	1.88	1054	1	0.07	35	0.10	7	106	0.19	194	119
0	650	40	0.2	2.57	19	443	0.5	5	1.17	0.8	38	14	39	45	3.31	0.52	9	14	0.84	1389	2	0.05	18	0.19	8	94	0.09	130	109
1	700	75	0.4	2.69	17	375	0.5	5	0.27	0.2	20	19	73	86	5.17	0.39	10	15	0.86	1299	1	0.04	27	0.13	5	40	0.08	155	98
2	2400W–750N	100	1.0	3.83	16	480	0.5	5	0.30	0.2	21	16	68	73	5.17	0.52	9	21	1.10	911	1	0.05	26	0.13	2	43	0.10	186	95
3	2400W–850N	80	0.6	3.12	19	393	0.5	5	0.51	0.2	26	14	60	62	5.05	0.42	10	18	1.02	586	1	0.04	24	0.12	2	47	0.12	167	111
4	900	95	0.6	1.87	19	509	0.6	5	1.20	0.2	34	20	57	92	4.64	0.37	10	13	0.97	1773	1	0.03	32	0.12	5	57	0.11	133	128
5	950	90	0.6	2.87	17	449	0.5	5	0.39	0.2	27	21	43	83	5.78	0.43	10	20	1.18	1312	1	0.03	25	0.08	4	27	0.17	166	113
6	1000	120	0.4	3.43	41	417	0.3	5	0.74	0.6	33	28	86	128	5.95	0.35	11	23	1.95	1160	1	0.04	48	0.07	2	60	0.18	219	114
7	2400W–1050N	250	0.8	3.30	59	536	0.5	5	0.36	0.2	32	25	65	125	6.59	0.50	14	19	0.99	1364	2	0.06	42	0.12	5	41	0.12	175	131
8	2400W–1100N	220	1.0	4.09	23	484	0.4	5	0.44	0.2	32	29	37	150	6.25	0.61	13	28	1.44	1289	1	0.06	35	0.09	6	58	0.13	207	110
9	1150	195	1.2	4.09	33	510	0.4	5	0.58	0.5	34	33	52	145	6.61	0.59	13	27	1.51	1486	1	0.06	43	0.09	4	62	0.13	220	125
0	1200	250	1.0	3.23	50	397	0.4	5	1.35	0.6	40	28	61	145	5.08	0.44	12	30	1.00	1174	1	0.07	42	0.13	5	51	0.08	162	120
1	1250	340	1.0	3.12	34	347	0.4	5	0.50	0.2	33	49	55	169	7.12	0.39	13	22	1.30	1720	1	0.04	50	0.07	2	63	0.09	176	110
2	2400W–1300N	400	0.8	3.68	20	443	0.4	5	0.59	0.4	33	37	42	167	7.04	0.51	13	27	1.43	1957	1	0.06	37	0.08	2	64	0.11	187	128
3	2400W–1350N	200	1.2	3.18	10	459	0.4	5	0.52	0.5	35	32	37	157	7.19	0.49	13	21	0.95	2441	1	0.08	32	0.13	2	56	0.10	164	151
4	2500W–3150N	2130	2.8	3.73	14	174	0.4	5	2.74	0.7	49	150	88	2278	10.23	0.43	17	13	1.44	2089	25	0.05	61	0.14	42	161	0.21	155	134
5	3200	2250	1.8	3.31	15	216	0.4	5	2.87	0.7	47	89	55	1535	10.63	0.44	16	12	1.24	1420	9	0.06	44	0.18	6	158	0.24	157	83
6	3250	1400	1.2	3.12	12	162	0.3	5	3.43	0.4	45	60	37	949	9.33	0.45	15	11	1.10	1126	3	0.07	33	0.13	2	149	0.25	162	65
7	2500W–3300N	680	1.0	3.46	15	182	0.3	5	3.87	0.4	43	60	35	922	8.54	0.48	15	12	1.26	1210	5	0.08	36	0.14	2	163	0.27	173	72

15/09 GP

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
	2500W-3350N	370	0.6	3.55	14	183	0.4	5	4.45	0.4	43	62	51	740	8.09	0.47	14	13	1.36	1331	5	0.08	45	0.13	4	172	0.25	173	78
	3400	510	1.6	3.42	14	190	0.4	5	4.04	0.5	44	56	46	858	8.31	0.50	15	12	1.24	1185	6	0.07	36	0.13	7	160	0.26	155	81
	3450	630	1.0	3.39	17	181	0.4	5	4.10	0.5	45	54	49	767	8.31	0.50	16	11	1.17	1145	5	0.07	36	0.13	6	166	0.27	156	75
	2500W-3500N	340	1.0	4.28	17	254	0.5	5	3.79	0.8	41	59	52	857	6.16	0.67	11	16	1.90	2062	6	0.06	50	0.13	59	148	0.25	160	138
	2900E-3150N	350	0.4	6.31	11	154	0.5	5	3.51	0.3	42	47	13	497	6.30	0.41	11	24	2.41	1687	1	0.04	23	0.10	20	240	0.32	207	88
	2900E-3200N	250	0.4	6.03	10	113	0.4	5	3.73	0.2	43	45	10	172	6.83	0.46	12	17	1.83	1084	1	0.06	22	0.13	2	225	0.40	216	52
	3250	310	0.4	5.80	16	114	0.4	5	3.82	0.4	42	52	13	232	6.52	0.38	11	17	1.99	1152	1	0.07	24	0.12	2	278	0.38	207	59
	3300	70	0.2	4.98	11	79	0.4	5	3.20	0.2	42	60	41	217	6.33	0.36	11	17	2.53	1016	1	0.10	54	0.11	2	215	0.31	185	56
	3350	270	0.2	4.30	11	96	0.3	5	3.02	0.3	44	50	53	280	6.29	0.33	12	16	2.67	874	1	0.13	65	0.11	2	255	0.31	181	66
	2900E-3400N	130	0.2	4.14	11	168	0.3	5	2.88	0.2	46	43	33	408	5.57	0.40	11	14	1.97	806	1	0.15	31	0.10	2	306	0.30	168	57
	2900E-3450N	160	0.4	4.76	13	259	0.4	5	1.47	0.2	48	39	28	714	6.36	0.41	15	18	1.80	756	2	0.08	33	0.19	6	173	0.28	165	70
	2900E-3500N	150	0.2	4.37	9	260	0.3	5	1.42	0.2	40	43	20	934	6.42	0.51	12	14	1.76	844	1	0.05	20	0.12	2	181	0.30	202	50
	4400E-1750N	230	1.6	5.80	15	573	0.5	5	1.64	0.7	50	39	11	345	7.64	0.94	15	15	1.27	2826	3	0.08	12	0.21	27	252	0.25	191	196
	1800	110	0.8	5.75	16	709	0.5	5	0.75	0.6	43	21	13	167	7.63	1.35	16	14	1.30	2104	4	0.11	15	0.22	38	132	0.21	173	238
	4400E-1850N	85	1.4	5.85	20	701	0.5	5	1.19	1.3	48	26	11	167	6.81	1.22	15	16	1.59	2425	3	0.09	16	0.17	70	155	0.23	172	259
	4400E-1900N	100	1.0	5.76	22	697	0.5	5	1.21	1.1	47	24	11	163	6.67	1.25	15	16	1.66	2200	4	0.09	16	0.16	66	155	0.23	178	251
	1950	140	0.8	5.40	21	550	0.4	5	1.60	1.5	50	25	22	154	6.30	0.96	16	18	1.85	2150	4	0.07	20	0.13	49	144	0.27	185	266
	2050	70	0.4	6.16	20	594	0.5	5	1.42	0.7	49	23	18	175	6.61	1.02	15	20	2.05	1983	4	0.08	22	0.16	45	114	0.28	194	278
	2100	100	0.2	6.43	26	589	0.6	5	0.96	0.7	40	25	15	190	6.25	1.14	12	19	2.04	2869	4	0.08	21	0.18	39	78	0.24	185	263
	4400E-2150N	15	0.2	5.35	21	335	0.3	5	1.95	0.3	50	16	19	64	5.31	0.64	13	14	1.50	1270	1	0.07	15	0.11	10	214	0.27	187	97
	4400E-2200N	80	0.2	5.08	22	369	0.3	5	1.89	0.5	52	17	19	107	5.47	0.65	14	14	1.39	1164	2	0.08	17	0.16	12	154	0.27	167	112
	2250	120	0.4	6.59	9	633	0.5	5	1.14	0.8	38	23	25	208	6.49	1.19	12	20	2.00	2126	4	0.08	21	0.17	53	102	0.26	183	301
	2300	160	0.4	4.61	12	278	0.3	5	1.89	0.5	46	22	31	200	5.97	0.56	12	13	1.38	1268	2	0.06	16	0.14	11	135	0.25	166	117
	2350	75	0.2	4.45	5	207	0.3	5	1.19	0.2	40	6	29	48	5.73	0.36	11	9	1.00	660	2	0.05	10	0.18	15	82	0.32	158	78
	4400E-2400N	270	0.8	5.21	15	265	0.6	5	1.60	0.7	47	35	92	292	6.13	0.48	13	18	2.26	2465	2	0.07	48	0.21	19	88	0.22	159	179
	4400E-2450N	50	0.4	4.94	7	201	0.3	5	1.48	0.4	44	9	47	29	3.78	0.41	11	10	1.04	548	1	0.06	18	0.19	5	100	0.36	144	73
	2500	5	0.6	4.76	12	203	0.4	5	1.49	0.5	44	14	44	60	4.73	0.41	12	12	1.23	1129	2	0.06	18	0.20	3	103	0.34	157	91
	2550	110	0.2	4.49	63	173	0.5	5	1.46	0.4	47	17	32	62	5.06	0.34	14	19	1.69	1177	2	0.07	19	0.16	3	79	0.32	179	121
	2600	30	0.2	4.43	22	187	0.3	5	1.60	0.4	44	12	37	78	4.09	0.34	11	11	1.17	646	1	0.07	19	0.19	2	102	0.26	134	85
	4400E-2650N	270	0.2	4.81	69	247	0.7	5	1.65	0.2	47	19	41	109	4.93	0.45	12	19	1.62	1417	2	0.07	29	0.26	6	108	0.28	173	127
	4400E-2700N	110	0.2	5.31	23	406	0.6	5	1.58	0.5	48	25	49	180	5.14	0.54	13	18	2.04	1546	1	0.09	40	0.15	8	179	0.27	165	102
	2750	60	0.2	5.00	16	321	0.7	5	1.45	0.2	42	22	57	154	4.90	0.46	12	18	1.78	1314	1	0.08	37	0.15	4	158	0.26	157	104
	2800	200	0.2	4.95	8	550	0.5	5	1.96	0.2	47	26	45	212	5.32	0.54	13	19	2.20	1482	1	0.11	37	0.12	5	230	0.30	177	99
	2850	320	1.0	5.55	9	926	0.6	5	1.53	0.4	51	24	38	220	5.54	0.74	15	20	2.15	1906	1	0.09	32	0.15	6	206	0.26	174	102
	4400E-2900N	110	0.2	4.45	15	292	0.4	5	2.19	0.3	48	27	56	200	5.29	0.44	13	17	2.26	1263	1	0.12	42	0.12	3	190	0.33	176	96
5	4400E-2950N	35	0.2	4.99	12	354	0.4	5	1.84	0.4	46	28	53	191	5.34	0.46	12	17	1.92	1474	1	0.09	33	0.16	5	171	0.33	184	101
5	3000	30	0.2	4.95	13	402	0.5	5	1.67	0.3	46	22	42	129	4.94	0.45	13	17	1.61	1538	1	0.08	29	0.20	10	167	0.32	176	102
7	3050	25	0.2	4.95	7	370	0.5	5	1.50	0.4	52	28	29	246	4.49	0.49	15	23	1.91	1249	1	0.08	25	0.16	7	337	0.29	167	93
8	4400E-3150N	170	0.6	6.32	8	1330	3.1	5	0.41	0.2	62	19	10	54	7.08	2.07	30	18	0.90	2294	1	0.07	20	0.18	17	37	0.08	125	190
9	5600E-2150N	10	0.2	4.70	10	180	0.3	5	1.01	0.2	37	11	36	79	4.48	0.28	9	10	0.95	606	2	0.05	18	0.20	6	76	0.26	127	80
0	5600E-2200N	25	0.2	4.78	18	235	0.3	5	2.41	0.3	47	25	36	189	5.30	0.34	12	14	1.90	895	2	0.09	31	0.12	4	179	0.35	184	99
1	2250	20	0.2	4.79	9	362	0.3	5	2.06	0.3	42	16	28	105	4.52	0.45	12	12	1.43	939	1	0.08	21	0.14	3	239	0.28	160	87
2	2300	10	0.2	4.00	7	211	0.3	5	1.78	0.3	42	18	23	146	3.86	0.33	11	9	1.17	917	1	0.08	18	0.14	2	127	0.25	137	76
3	2350	70	0.2	5.21	11	218	0.3	5	2.16	0.3	45	19	25	203	5.05	0.35	13	12	1.49	781	2	0.09	22	0.15	2	134	0.33	172	78
4	5600E-2400N	40	0.2	5.22	14	281	0.3	5	2.43	0.3	49	28	22	388	5.54	0.48	14	13	1.76	1011	2	0.10	25	0.15	5	181	0.33	190	90

	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	
	5600E-2450N	35	0.2	5.16	13	232	0.3	5	2.46	0.2	49	13	23	389	5.79	0.39	13	11	1.41	738	3	0.08	18	0.15	2	166	0.36	187	74	Crcy
	2500	20	1.0	2.55	2	164	0.2	5	1.31	0.2	38	3	21	30	1.88	0.31	10	4	0.27	240	1	0.04	6	0.19	4	110	0.23	93	31	
	2550 •	10	0.2	4.69	7	201	0.3	5	2.91	0.2	47	19	16	163	5.02	0.45	14	13	1.77	879	1	0.10	24	0.12	6	171	0.34	195	80	
	2600	200	0.2	3.91	8	177	0.2	5	1.96	0.2	46	10	27	55	4.26	0.36	13	8	0.99	517	1	0.08	15	0.11	5	130	0.39	188	58	
	5600E-2650N	10	0.6	2.67	3	117	0.2	5	1.72	0.2	43	3	19	28	2.87	0.23	11	5	0.68	333	1	0.06	9	0.17	3	89	0.45	172	35	
	5600E-2700N	20	0.2	6.27	20	115	0.4	5	0.71	0.3	29	10	28	60	3.74	0.16	8	8	0.70	560	1	0.04	13	0.23	3	43	0.16	94	71	
	2750	60	0.2	3.73	2	194	0.2	5	1.63	0.2	42	7	34	25	3.66	0.40	11	8	0.71	552	1	0.06	11	0.14	2	138	0.42	184	56	
	2800	260	0.2	4.08	2	211	0.3	5	1.88	0.2	45	9	32	72	4.09	0.41	12	9	1.04	560	1	0.06	14	0.20	2	145	0.38	156	66	
	2850	10	0.2	4.16	2	149	0.3	5	1.12	0.2	36	6	34	64	3.64	0.31	9	8	0.76	456	1	0.04	13	0.17	2	89	0.32	129	53	
	5600E-2900N	20	0.2	3.41	3	210	0.3	5	1.45	0.2	40	9	33	43	3.85	0.40	10	8	0.91	604	1	0.05	17	0.23	2	113	0.30	142	59	
	5600E-2950N	20	0.2	4.10	2	244	0.4	5	1.30	0.2	40	13	23	78	4.77	0.47	10	11	1.27	732	2	0.05	16	0.18	7	108	0.31	169	84	
	3000	15	0.4	4.45	6	243	0.3	5	1.43	0.2	41	14	24	95	4.88	0.39	10	12	1.47	773	2	0.06	19	0.15	2	116	0.30	163	95	Joh
	3050	35	0.2	4.86	5	342	0.3	5	1.44	0.3	42	9	36	62	4.70	0.52	11	10	1.06	706	1	0.08	16	0.17	4	129	0.31	190	76	
	3100	5	0.2	3.70	6	347	0.3	5	1.66	0.2	41	21	35	89	5.63	0.31	10	12	1.88	1134	1	0.06	23	0.22	3	130	0.36	232	106	
	5600E-3150N	1200	0.2	3.95	2	247	0.3	5	1.52	0.8	37	13	36	62	5.15	0.29	10	13	1.36	1076	1	0.05	18	0.27	2	103	0.39	171	123	
	6000E-2000N	20	0.2	5.77	3	309	0.5	5	1.51	0.2	42	36	43	334	7.15	0.41	13	21	3.05	1649	2	0.06	55	0.13	7	139	0.40	230	130	Crcy
	2050 A	10	0.2	1.80	2	173	0.2	5	1.46	0.4	33	6	20	30	1.91	0.27	7	4	0.37	447	1	0.04	8	0.17	3	103	0.24	107	74	
	2100	40	0.2	5.75	15	319	0.5	5	1.92	0.4	49	37	33	421	6.26	0.63	14	21	2.19	1276	2	0.09	52	0.13	9	145	0.35	200	132	
	2150	15	0.2	5.95	10	319	0.5	5	1.78	0.7	40	60	34	694	7.90	0.40	12	22	3.30	1526	6	0.07	66	0.14	10	184	0.32	204	123	
	6000E-2200N	20	0.2	5.11	10	279	0.5	5	1.70	0.4	42	43	32	554	6.65	0.43	11	17	2.08	2298	12	0.07	40	0.20	12	138	0.30	187	116	
	6000E-2250N	5	0.2	2.80	2	121	0.2	5	1.04	0.4	30	8	144	50	2.79	0.31	8	9	1.41	302	1	0.04	84	0.18	2	102	0.32	121	47	
	2300	5	0.2	4.01	3	103	0.2	5	2.11	0.4	44	13	32	125	5.35	0.22	10	8	1.45	527	2	0.08	21	0.11	2	131	0.52	233	49	
	2350	15	0.2	4.50	5	228	0.4	5	2.33	0.6	50	21	29	441	4.93	0.40	15	14	1.42	875	8	0.07	23	0.15	6	163	0.37	176	80	
	2400	20	1.6	4.64	8	246	0.5	5	1.95	0.9	48	20	25	444	4.36	0.46	15	15	1.40	656	5	0.07	28	0.14	7	143	0.36	165	94	
	6000E-2450N	15	0.2	4.25	3	176	0.2	5	1.67	0.2	42	9	30	36	4.68	0.31	12	10	1.08	632	1	0.06	14	0.17	2	140	0.43	183	55	
	6000E-2500N	250	0.2	3.58	2	178	0.2	5	1.61	0.4	43	6	21	25	4.26	0.36	11	7	0.82	411	2	0.05	10	0.15	2	146	0.47	185	44	
	2550	90	0.2	3.34	2	267	0.2	5	1.14	0.2	41	18	20	69	5.38	0.47	11	8	0.89	1484	10	0.05	11	0.19	9	121	0.40	236	76	
	2600	15	0.2	4.54	8	190	0.5	5	1.83	0.2	49	15	25	249	4.96	0.36	16	18	1.44	900	6	0.07	19	0.29	2	124	0.33	172	87	
	2650	5	0.2	3.32	2	136	0.2	5	2.15	0.2	46	5	22	27	3.82	0.30	12	7	0.86	417	3	0.07	12	0.14	2	147	0.44	173	47	
	6000E-2700N	15	0.2	4.30	6	309	0.4	5	1.99	0.5	51	22	17	163	5.86	0.58	15	17	2.32	1124	2	0.06	20	0.18	2	159	0.46	241	91	
	6000E-2750N	5	0.2	3.52	2	182	0.2	5	2.00	0.4	47	8	17	32	3.69	0.30	12	8	1.18	402	2	0.06	13	0.10	4	182	0.56	204	45	
	2800	5	0.2	4.38	5	213	0.3	5	1.67	0.5	49	13	20	121	5.14	0.36	13	15	1.59	1281	9	0.04	16	0.18	4	163	0.54	244	84	
	3000	30	0.2	2.61	2	194	0.2	5	1.94	0.4	46	2	19	18	1.81	0.31	11	5	0.32	248	4	0.05	6	0.10	8	132	0.37	125	33	Joh
	3050	15	0.2	4.40	7	176	0.3	5	1.67	0.7	44	11	44	59	5.47	0.33	12	12	1.23	528	2	0.06	21	0.12	4	123	0.37	181	63	
	6000E-3100N	15	0.2	2.41	2	157	0.2	5	0.96	0.2	30	7	29	71	2.69	0.25	8	6	0.65	318	1	0.05	11	0.19	2	99	0.22	109	42	
2	6000E-3150N	15	0.2	6.02	8	309	0.5	5	1.16	0.4	38	35	43	290	6.63	0.44	12	21	2.69	1541	1	0.06	36	0.18	14	103	0.35	212	144	
3	3200	150	0.2	3.75	2	227	0.3	5	1.19	0.2	35	21	36	139	5.07	0.38	10	11	1.54	1775	1	0.05	21	0.22	3	115	0.33	184	81	
4	3250	60	0.4	5.21	8	304	0.4	5	2.07	0.2	47	31	39	537	7.07	0.49	13	15	2.05	1389	3	0.07	31	0.15	2	164	0.36	217	104	
5	6000B-3300N	30	0.2	5.14	3	274	0.4	5	1.86	0.2	46	29	43	240	6.26	0.36	12	15	2.16	1582	2	0.06	28	0.15	8	159	0.38	223	110	
6	10000E-10000N	5	0.2	5.54	9	316	0.3	5	1.77	0.7	44	19	50	76	5.90	0.40	12	18	1.72	957	2	0.06	33	0.11	2	210	0.40	225	98	Crcy
7	10000E-10050N	5	0.6	5.40	7	285	0.4	5	1.95	0.6	44	26	68	68	6.17	0.30	12	17	1.73	2168	2	0.05	35	0.16	2	232	0.48	241	115	
8	10100	5	0.4	5.39	3	224	0.2	5	2.68	0.2	46	7	23	36	4.54	0.38	12	7	0.74	492	2	0.04	14	0.10	2	250	0.45	243	71	
9	10150	5	0.2	5.15	4	148	0.3	5	1.90	0.2	42	12	58	40	6.55	0.28	10	13	1.36	584	1	0.04	26	0.08	2	160	0.58	276	77	
0	10200	5	0.4	6.56	9	253	0.6	5	1.67	0.2	46	23	81	82	7.13	0.54	16	35	2.15	1159	2	0.04	57	0.12	3	154	0.33	275	112	
1	10000E-10250N	5	0.2	5.37	6	213	0.3	5	1.91	0.2	43	10	46	43	5.50	0.30	12	15	1.18	578	1	0.05	22	0.12	2	184	0.42	209	79	

	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
	10000E-10300N	5	0.2	4.90	26	354	0.7	5	2.14	0.5	52	15	46	59	5.10	0.39	15	34	1.16	2128	2	0.05	21	0.19	2	180	0.32	216	156
	10350	5	0.4	5.31	6	188	0.4	5	2.08	0.6	49	31	21	43	6.05	0.28	12	13	0.94	1844	1	0.03	14	0.19	2	276	0.45	218	119
	10400 s!	5	0.2	4.88	9	106	1.3	5	1.03	0.5	37	35	393	84	5.58	0.20	13	50	4.15	477	1	0.02	352	0.15	2	74	0.25	131	84
	10450	10	0.8	5.97	2	343	1.9	5	1.12	0.3	41	11	19	67	4.84	0.95	12	11	0.71	823	1	0.04	15	0.15	15	141	0.25	203	71
	10000E-10500N	5	0.4	5.77	10	189	0.3	5	2.47	0.6	46	15	48	67	6.05	0.27	12	14	1.82	742	1	0.05	28	0.11	2	228	0.45	221	92
	10000E-10550N	5	0.4	5.72	78	414	0.4	5	2.30	1.3	51	27	55	166	6.00	0.57	17	25	1.86	1362	4	0.06	51	0.18	3	293	0.34	290	180
	10600	5	0.2	5.31	19	200	0.3	5	2.72	0.5	52	22	39	101	5.30	0.33	14	14	1.77	1084	1	0.06	33	0.13	2	202	0.40	201	95
	10650	5	0.2	5.44	15	359	0.3	5	2.04	0.5	48	19	44	73	6.57	0.44	14	14	1.65	1004	3	0.05	32	0.13	3	389	0.42	283	158
	10691	5	0.2	4.93	22	188	0.3	5	2.99	0.6	48	21	47	79	5.10	0.33	13	14	1.94	1085	2	0.04	37	0.11	2	226	0.35	203	116
	10000E-10700N	5	0.2	4.52	2	156	0.2	5	2.33	0.2	42	14	40	72	5.15	0.27	11	12	1.29	790	1	0.05	24	0.08	2	156	0.36	176	75
2	10000E-10750N	5	0.2	4.85	10	210	0.2	5	1.72	0.2	41	9	38	45	6.84	0.34	10	10	1.04	806	5	0.03	22	0.13	2	153	0.60	226	90
3	10800	5	0.2	4.79	51	163	0.2	5	1.79	0.2	41	13	50	61	5.78	0.31	9	11	1.27	763	2	0.03	30	0.11	2	135	0.47	196	82
4	10850	5	0.6	4.05	9	59	0.3	5	5.78	0.2	36	83	23	437	10.32	0.10	10	13	1.60	1458	4	0.03	83	0.10	2	186	0.33	167	129
5	10900	5	0.2	4.66	9	262	0.3	5	2.20	0.2	42	20	34	90	5.77	0.37	11	12	1.30	1898	3	0.05	29	0.20	2	168	0.40	176	99
6	10000E-10950N	5	0.2	6.29	4	176	0.3	5	1.77	0.2	39	16	32	77	5.97	0.30	9	13	1.23	664	1	0.04	26	0.12	2	151	0.36	162	75
7	10000E-11000N	5	0.2	4.93	4	146	0.3	5	2.49	0.2	43	29	31	91	5.63	0.28	11	12	1.27	1856	2	0.04	27	0.19	2	222	0.34	177	136
8	11050	5	0.2	5.45	3	187	0.2	5	2.07	0.2	40	9	35	45	5.81	0.32	9	12	1.23	654	1	0.05	20	0.10	2	158	0.49	202	79
1	10000E-11100N	5	0.2	5.37	5	162	0.2	5	2.18	0.2	42	11	41	56	4.98	0.29	11	14	1.43	683	1	0.05	26	0.08	2	172	0.43	203	67
2	10100E-10200N	5	0.2	4.35	4	144	0.2	5	2.26	0.2	43	6	23	26	5.21	0.23	12	8	0.92	503	2	0.04	15	0.12	2	192	0.49	227	58
3	10100E-10250N	5	0.2	5.89	14	111	0.6	5	1.53	0.4	40	18	83	119	6.96	0.20	14	21	3.49	773	1	0.04	70	0.08	2	109	0.40	246	87
4	10100E-10300N	5	0.2	5.31	9	162	0.3	5	1.73	0.4	40	13	34	107	7.08	0.27	11	14	1.45	593	3	0.08	22	0.11	2	169	0.35	180	69
5	10350	5	0.2	6.14	5	180	0.3	5	1.91	0.5	43	9	22	141	6.86	0.23	12	12	1.19	529	7	0.06	15	0.09	2	169	0.34	164	59
6	10400	20	0.2	5.93	6	149	0.4	5	1.67	0.2	40	17	25	153	6.90	0.28	12	15	1.21	638	3	0.08	20	0.11	2	145	0.24	161	60
7	10450	5	0.2	4.21	6	296	0.3	5	1.90	0.2	48	8	20	74	3.98	0.36	13	7	0.51	632	6	0.06	12	0.14	3	278	0.34	188	59
8	10100E-10500N	5	0.2	4.05	12	172	0.2	5	1.42	0.2	41	6	35	28	5.47	0.30	12	8	0.79	437	3	0.05	15	0.12	5	151	0.52	262	70
9	10100E-10550N	5	0.2	4.80	37	283	0.5	5	2.52	0.6	44	16	51	124	4.67	0.41	13	26	1.43	614	3	0.05	40	0.11	4	225	0.28	216	118
0	10600	5	0.2	4.40	32	224	0.3	5	2.37	0.5	46	22	56	116	4.92	0.35	13	17	1.39	1303	6	0.05	32	0.16	5	187	0.33	220	104
1	10650	5	0.2	4.94	18	224	0.3	5	2.88	0.3	43	23	50	169	5.38	0.38	11	17	1.80	1257	1	0.05	42	0.12	2	232	0.35	208	116
2	10700	5	0.2	5.19	11	138	0.3	5	2.78	0.2	43	21	66	95	5.84	0.22	10	17	1.87	930	1	0.04	49	0.13	2	173	0.40	190	96
3	10100E-10750N	5	0.2	5.12	7	284	0.3	5	2.21	0.8	45	27	43	64	6.15	0.35	13	15	1.89	1330	2	0.05	34	0.15	2	296	0.43	251	166
4	10100E-10800N	5	0.2	4.37	77	138	0.4	5	3.18	0.2	43	22	36	531	5.55	0.24	11	15	1.32	1138	1	0.03	29	0.27	2	250	0.30	178	78
5	10100E-10850N	5	0.2	5.46	2	145	0.3	5	2.90	0.2	44	14	16	35	6.02	0.27	11	10	1.39	983	1	0.03	14	0.17	2	275	0.51	194	87
6	3700E-1550N	5	0.2	4.25	2	169	0.3	5	1.88	0.2	46	11	20	41	3.90	0.35	11	9	0.55	1015	3	0.05	11	0.20	2	225	0.33	148	61
7	1650	150	0.2	5.84	2	245	0.3	5	1.81	0.2	47	19	31	180	5.51	0.54	12	17	1.55	910	1	0.10	28	0.13	2	139	0.28	167	87
8	3700E-1750N	140	0.4	5.50	2	322	0.3	5	1.51	0.2	45	9	25	143	7.44	0.85	13	13	1.22	645	1	0.08	16	0.27	2	107	0.32	184	70
59	3700E-1850N	200	0.2	5.70	2	286	0.3	5	1.83	0.2	46	22	26	202	6.07	0.62	13	14	1.57	1007	1	0.10	22	0.13	2	116	0.27	170	83
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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APPENDIX III

ROCK GEOCHEMICAL DESCRIPTIONS/ASSAY SHEETS

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** T.W. **Date received:** SEP. 17 **LAB CODE:** 9309–033
Material: 59 Rx **Sheet:** 1 of 2 **Date completed:** OCT. 05
Remarks: * Sample screened @ –35 MESH (0.5 mm)
¤ Organic, & Humus, $ 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. 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
6	389 – A	20	0.2	5.12	2	232	0.2	7	0.89	0.2	36	16	21	161	5.28	0.70	9	15	2.68	728	1	0.25	8	0.05	3	69	0.30	196	204
7	B	530	0.4	3.23	16	189	0.3	5	1.04	0.2	45	17	85	389	22.65	1.00	9	5	0.56	439	1	0.04	15	0.10	14	80	0.19	184	56
8	C	10	0.2	6.77	2	51	0.3	8	5.92	0.2	77	37	18	288	6.15	0.08	12	15	2.42	1359	1	0.08	13	0.09	3	373	0.38	233	127
1	D	5	0.2	1.74	2	456	0.8	5	0.40	0.3	28	14	57	27	4.04	0.52	11	18	0.96	806	1	0.09	26	0.18	2	27	0.04	188	96
2	F	320	0.2	0.06	2	4	0.2	5	0.01	0.2	5	1	341	24	1.21	0.01	1	1	0.01	27	469	0.01	2	0.01	2	1	0.01	4	3
3	G	5	0.2	4.31	2	1252	0.4	5	1.39	0.2	71	9	35	40	4.31	1.59	23	8	1.05	863	1	0.08	7	0.15	2	209	0.21	118	67
4	H	20	0.2	2.51	2	213	0.2	5	1.44	0.2	45	23	41	90	6.25	0.81	8	10	1.63	727	1	0.14	10	0.07	2	44	0.30	174	56
5	I	310	0.2	4.39	18	997	0.2	5	0.89	0.2	28	24	38	346	6.66	1.60	5	6	0.65	454	2	0.06	9	0.05	14	14	0.17	149	52
6	J	990	4.8	1.08	52	11	0.2	5	0.32	0.2	28	72	95	2750	17.54	0.05	11	2	0.49	460	1	0.01	10	0.04	2	4	0.02	33	74
8	K	6700	14.4	0.11	2	2	0.2	5	0.01	0.2	5	5	384	329	5.80	0.01	1	1	0.01	37	29	0.01	4	0.01	2	1	0.01	5	6
9	L	30	9.2	4.04	2	268	0.2	5	2.43	0.2	55	8	39	116	4.42	0.85	10	10	1.41	761	1	0.10	6	0.07	2	122	0.24	112	55
0	M	5700	0.2	0.42	2	30	0.2	5	0.05	0.2	7	10	238	2145	7.84	0.10	2	1	0.22	115	1	0.05	5	0.02	15	3	0.05	56	16
1	N	5	0.2	5.64	2	664	0.2	5	0.90	0.2	42	14	27	53	5.98	2.07	12	12	1.10	811	1	0.10	5	0.11	11	113	0.25	188	98
2	O	5	0.2	3.80	2	161	0.2	5	3.01	0.2	62	12	23	9	4.16	0.86	12	11	1.34	954	1	0.10	7	0.07	2	95	0.26	153	55
3	P	40	0.2	3.35	2	81	0.2	5	5.50	0.2	70	8	24	80	4.19	0.56	9	7	0.61	1513	1	0.13	6	0.08	2	123	0.35	179	52
4	Q	2000	8.8	1.68	4	94	0.2	7	4.44	0.2	70	439	27	11000	10.55	0.21	13	6	0.36	979	6	0.02	16	0.06	4	117	0.07	67	36
5	R	10	0.2	5.81	2	500	0.2	5	1.32	0.2	47	11	31	88	5.84	1.89	11	11	1.65	1488	1	0.10	13	0.06	21	62	0.38	228	186
6	S	5	0.2	3.40	2	576	0.3	5	2.06	0.2	82	8	24	31	2.57	1.08	28	11	0.87	499	1	0.11	9	0.09	8	70	0.14	69	62
7	T	8300	8.0	1.82	2	519	0.2	5	0.03	0.2	16	4	204	250	14.09	0.81	6	2	0.17	258	5	0.04	3	0.08	11	5	0.06	106	203
8	U	20	0.2	2.54	2	398	0.3	5	0.16	0.2	22	6	131	56	2.76	0.59	8	15	0.55	150	1	0.08	5	0.07	130	17	0.01	55	131
9	V	50	0.2	4.77	2	1031	0.6	8	0.37	1.2	46	35	36	15000	4.13	1.32	16	12	1.49	933	1	0.11	9	0.11	3	24	0.05	124	199
0	389 – W	40	0.8	3.75	2	850	0.3	5	0.87	0.2	44	13	30	2907	3.34	0.87	11	10	0.98	825	1	0.14	9	0.07	2	86	0.06	90	135
1	390 – A	5	0.2	2.43	2	749	1.5	5	1.80	0.3	46	8	22	46	2.45	1.38	11	6	0.60	597	1	0.09	12	0.12	2	104	0.03	135	45
2	B	5	0.2	5.19	2	160	0.2	5	3.10	0.2	54	25	14	52	6.53	0.33	7	20	2.26	1084	1	0.11	11	0.06	2	372	0.40	179	82
3	C	5	0.2	2.03	10	22	0.3	5	17.47	0.2	51	12	21	31	2.73	0.08	1	9	0.79	754	2	0.13	11	0.10	2	386	0.27	94	36
4	O	5	0.2	5.15	2	108	0.2	5	4.53	0.2	59	21	37	42	4.93	0.31	7	9	0.97	464	1	0.30	21	0.07	2	255	0.49	112	44
5	E	5	0.2	1.96	2	327	1.0	5	2.28	0.2	56	15	52	186	4.11	0.67	13	21	1.56	643	1	0.12	34	0.17	9	104	0.05	183	61
6	G	5	0.2	6.65	2	13	0.2	5	8.09	0.2	65	20	16	89	4.64	0.04	5	10	1.28	783	1	0.07	12	0.06	2	174	0.33	177	48
7	H	5	0.2	1.74	40	19	0.6	5	7.64	0.2	74	24	33	566	23.55	0.04	10	5	0.50	2531	4	0.03	55	0.10	17	41	0.07	59	118
8	I	5	0.2	5.43	2	507	0.3	5	3.65	0.2	58	27	21	201	5.77	0.74	10	36	2.07	1424	1	0.38	13	0.08	2	118	0.09	177	123
9	J	5	0.2	3.58	2	70	0.2	5	2.39	0.2	50	23	43	28	6.79	0.45	8	8	1.28	422	1	0.31	12	0.04	2	89	0.26	172	27
0	K	5	0.2	7.25	2	195	0.3	5	4.67	0.2	62	18	35	124	4.93	0.97	10	18	1.78	1020	1	0.37	11	0.10	5	69	0.31	146	83
1	L	5	0.2	2.48	2	232	0.2	5	0.33	0.2	26	17	69	16	5.96	0.70	10	11	1.63	370	1	0.12	9	0.07	2	21	0.12	166	43
2	M	5	0.2	1.40	2	74	0.2	5	0.47	0.2	29	13	58	14	6.08	0.29	9	6	1.55	240	1	0.18	6	0.06	2	20	0.17	154	57
3	390 – N	40	0.2	5.63	2	600	0.2	5	0.92	0.4	43	4	44	109	3.52	1.40	13	14	1.76	637	1	0.17	12	0.08	9	126	0.16	124	212

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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
4	390 – O	5	0.2	5.93	2	419	0.3	5	1.39	0.2	44	15	52	29	4.88	0.90	10	21	1.60	633	1	0.48	10	0.18	3	181	0.09	143	61
5	P	5	0.2	2.66	2	282	0.4	5	2.06	0.2	60	16	114	29	3.81	0.14	14	9	2.40	692	3	0.26	56	0.11	6	185	0.27	136	69
6	Q	5	0.2	4.98	2	637	0.3	5	3.12	0.2	68	14	28	50	5.27	0.92	13	11	1.08	929	1	0.16	8	0.11	2	224	0.27	155	79
7	R	5	0.4	2.61	2	305	0.2	5	0.65	0.2	36	14	47	53	5.64	0.44	11	13	1.28	400	1	0.12	7	0.12	2	60	0.17	149	81
8	S	5	0.2	3.25	6	320	0.3	5	2.98	0.2	67	14	100	64	5.24	0.61	14	11	1.38	644	1	0.16	34	0.14	3	206	0.30	115	68
9	T	5	0.2	3.39	2	168	0.2	5	2.47	0.2	55	16	31	138	4.91	0.58	10	11	1.37	871	1	0.22	8	0.07	2	97	0.31	159	68
0	U	5	0.2	2.68	4	270	0.3	5	2.59	0.2	83	10	62	36	3.77	0.80	22	13	1.22	841	1	0.09	26	0.11	7	192	0.31	106	67
1	V	10	0.2	4.59	2	423	0.3	7	2.44	0.5	58	10	23	59	3.27	1.05	11	11	1.15	923	1	0.09	8	0.12	2	227	0.23	139	54
2	390 – W	5	0.2	6.78	2	768	0.3	6	0.42	0.2	31	12	27	45	3.53	1.52	9	26	0.72	156	1	0.53	10	0.10	2	108	0.06	143	19
3	392 – A	5	0.2	4.32	8	1289	1.0	5	3.29	0.9	75	35	122	30	5.86	2.50	18	57	4.72	801	1	0.19	171	0.35	6	493	0.35	209	69
4	B	5	0.2	2.39	7	183	1.0	5	1.69	0.5	59	16	105	63	4.04	1.48	15	30	1.92	566	1	0.16	64	0.28	4	285	0.27	189	53
5	C	5	0.2	2.35	7	223	0.7	5	2.11	0.2	65	13	35	113	4.25	0.95	15	20	1.15	582	1	0.09	24	0.22	4	465	0.28	191	58
6	D	5	0.2	0.16	2	16	0.2	5	0.08	0.2	9	3	325	46	0.91	0.08	2	2	0.13	237	1	0.03	6	0.02	2	6	0.02	27	7
7	E	5	0.2	6.60	2	318	0.2	8	3.44	0.2	71	16	14	92	7.65	0.62	12	14	2.02	420	1	0.17	10	0.08	4	437	0.56	198	83
8	F	5	0.2	6.65	5	61	0.2	10	5.67	0.4	74	25	22	59	5.76	0.11	9	12	1.89	1024	1	0.16	15	0.07	6	202	0.34	149	74
1	G	5	0.2	6.21	4	75	0.2	8	4.36	0.2	65	30	33	50	6.97	0.14	11	22	2.65	1119	1	0.07	17	0.06	2	299	0.42	242	84
2	H	5	0.2	4.10	5	9	0.3	5	16.16	0.2	65	12	20	40	2.88	0.04	2	9	0.73	815	1	0.05	12	0.06	2	608	0.24	132	31
3	I	5	0.2	2.52	2	15	0.2	5	1.83	0.2	56	16	37	97	5.56	0.05	12	9	1.65	767	1	0.15	11	0.08	2	76	0.58	155	76
4	392 – J	5	0.2	3.64	6	182	0.3	5	12.01	0.2	73	21	31	45	4.09	0.41	4	11	1.21	1705	1	0.21	15	0.06	2	234	0.45	154	56
5	393 – A	90	0.2	4.69	2	554	0.2	5	0.39	0.2	32	3	32	152	2.06	1.55	11	13	1.07	368	5	0.13	3	0.09	2	23	0.15	97	168
6	B	110	0.8	1.83	2	276	0.2	5	0.06	0.2	11	4	176	239	2.02	0.68	5	3	0.20	109	116	0.09	3	0.04	2	4	0.03	69	48
7	393 – C	460	0.2	0.73	2	114	0.2	5	0.02	0.2	8	4	217	32	2.00	0.33	4	1	0.04	71	1447	0.04	2	0.02	2	3	0.01	26	12

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL – 148 | Geol.: T.W. | Date received: OCT. 14 | LAB CODE: 9310–015
Material: 25 Rx | Sheet: 1 of 1 | Date completed: OCT. 26
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
31	393 – D	150	0.2	3.93	13	25	0.3	5	7.92	0.2	63	22	34	304	5.69	0.05	11	12	1.33	1904	1	0.09	20	0.09	2	269	0.46	197	110
32	E	280	0.4	0.46	41	18	0.4	5	23.36	0.2	20	201	29	459	5.69	0.08	1	7	0.28	8432	10	0.03	316	0.03	2	158	0.01	70	29
33	F	100	0.4	5.03	33	20	0.4	5	8.80	0.2	64	21	59	351	7.85	0.07	14	11	1.29	2478	1	0.10	38	0.14	2	240	0.36	204	85
34	G	5	0.2	3.97	8	30	0.2	5	3.67	0.2	56	9	30	48	5.17	0.28	11	9	0.94	696	2	0.08	4	0.14	2	173	0.22	107	43
35	H	30	0.2	2.73	7	97	0.2	5	2.25	0.2	47	20	31	16	4.56	0.56	9	7	0.93	602	1	0.12	6	0.12	2	101	0.30	131	32
36	I	100	0.2	6.48	12	271	0.3	5	3.80	0.2	52	16	13	86	6.67	0.47	9	11	1.85	1221	1	0.06	6	0.10	2	180	0.36	136	90
37	J	30	0.2	6.24	15	28	0.3	5	5.70	0.2	63	14	21	74	6.06	0.07	12	12	1.77	1286	1	0.07	9	0.10	2	312	0.42	177	90
38	K	53000	10.8	0.26	2	21	0.2	6	0.04	0.2	6	1	294	206	2.73	0.10	2	1	0.03	96	3	0.01	3	0.01	2	2	0.01	12	11
39	L	140	2.8	4.50	7	387	0.9	5	1.69	0.2	45	10	60	1963	2.74	2.04	11	4	0.72	286	32	0.11	6	0.08	4	30	0.03	95	30
40	M	5	0.2	3.81	27	246	0.3	5	5.93	1.9	62	24	118	114	5.15	0.58	12	33	2.10	921	3	0.07	44	0.07	2	205	0.06	286	135
41	N	620	0.2	2.26	14	1019	0.3	5	3.60	0.2	48	10	147	35	2.98	0.64	9	11	0.46	702	1	0.13	7	0.04	2	75	0.08	98	33
42	O	20	0.2	4.02	10	619	0.4	5	5.53	0.2	60	22	65	86	4.88	1.33	12	13	1.94	890	1	0.15	34	0.06	2	108	0.09	178	63
43	P	5	0.4	5.79	10	1372	0.4	5	5.43	0.2	63	21	26	101	5.45	2.33	13	17	1.11	897	1	0.13	22	0.10	2	70	0.27	223	72
44	Q	30	1.6	1.06	6	727	0.5	5	2.84	0.7	53	10	178	218	2.13	0.49	9	6	0.81	505	1	0.06	20	0.08	14	109	0.03	117	51
45	R	100	0.8	2.68	7	945	0.8	5	3.63	0.3	61	17	102	84	4.46	1.19	11	8	0.92	833	1	0.10	20	0.05	2	177	0.07	178	47
46	S	5	0.4	4.06	131	567	0.5	5	3.57	2.0	64	28	82	125	6.62	0.78	14	29	2.39	956	19	0.18	55	0.08	4	65	0.06	498	216
47	T	20	0.2	6.66	20	289	0.4	5	3.28	0.6	64	7	35	34	6.25	0.93	15	16	2.74	1463	1	0.08	18	0.07	6	181	0.31	191	116
48	U	5	0.2	7.35	24	151	0.3	5	4.96	0.5	67	15	15	86	5.25	1.06	13	11	2.26	1087	1	0.05	9	0.08	2	161	0.30	198	78
51	V	5	0.2	4.99	24	385	0.8	5	3.06	0.2	57	21	50	23	5.26	2.00	15	17	1.40	841	1	0.06	35	0.19	2	74	0.07	108	114
52	393 – W	130	0.4	4.93	13	195	0.5	5	3.83	0.2	49	39	21	398	10.27	0.30	13	19	2.52	1062	1	0.33	11	0.10	2	136	0.28	182	95
53	394 – A	300	0.2	4.16	6	105	0.3	5	3.57	0.2	54	17	54	97	4.68	0.24	11	10	1.20	594	1	0.41	23	0.08	2	158	0.42	130	80
54	B	5	0.2	2.28	11	290	0.2	5	1.49	0.2	48	14	63	108	4.72	0.48	13	13	1.74	603	1	0.19	28	0.08	2	48	0.35	179	104
55	C	30	0.2	2.66	10	315	0.2	5	0.49	0.2	28	24	44	11	8.40	1.05	7	9	0.87	322	1	0.10	2	0.14	2	17	0.17	158	39
56	D	30	0.2	8.73	2	1755	0.3	5	0.19	0.2	28	1	106	34	3.54	3.59	10	2	0.09	23	1	0.28	5	0.12	2	87	0.08	404	11
57	E	1200	0.2	1.29	3	197	0.2	5	0.03	0.2	12	1	181	32	8.62	0.42	5	4	0.11	89	1	0.06	3	0.03	2	15	0.10	67	17
58	394 – E rpt	–	0.4	1.28	4	195	0.2	5	0.03	0.2	14	1	188	32	8.77	0.42	6	4	0.11	93	1	0.06	4	0.04	2	15	0.11	67	18

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NORANDA EXPLORATION CC ANY, LIMITED

0389

White - Office
Yello ld

B Norex - Delta

PROJECT NO. 148 PROPERTY KLIYUL

N.T.S. 94D/08

RT. NO. 9309-033

59 RX

GRID REFERENCE

DATE Sept 17

SAMPLE REPORT

AMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS Au	Cu		CO-ORDINATES		SAMPLER
A	Bleached pyritic monzonite porphyry 3-5% Py	Grab					1075N	4420E	TW
B	Monzonite? Ser, Sheared Bleached gossan +clay	Grab					925N	4475E	Gray
C	Med gr. microdiorite w epi + tr mal +chl	Grab	massive				725N	4735E	Gray
D	Carbonatized diorite Hb +mt; Limonite	Grab					675N	4600E	Gray
E	Bleached Pyritic + chl diorite; ~~[illegible]~~, ser ~7%	Grab					2025N	1625E	Kli
F	Bull qtz (in trench) 235°/090°. w [illegible] on selvage ~1m wide grab						2190N	1545E	Kli
G	fine grained felsic dyke in fragmental host rock, epi, Py ~3%	Grab					2575N	1480E	Kli
H	Dk-Dk green andesite (biotite-chl) w epi + Py 5%	Grab		~~Hanf~~			2675N	1625E	Kli
J	Irregular shaped py-mt-epi skarn. silic'd locally	Grab					2850N	1465E	Dean
I	Silicified sediment (~~[illegible]~~ clastic) pyritic chl, bio, epi hornfelsed						2850N	1465E	[illegible]
K	Qv with pyrite [illegible] (0.7m) wide in 2m wide	Shear / Fault		Grab			2165N	1410E	Kli
L	Sheared diorite w massive Py lsc blebs + qtz -epi			Grab			2185N	1415E	Kli
M	Sulphidized monzonite porph / dio Bleached gross		5-7% Py	fn diss + [illegible]		Grab	2100N	1365E	Kli
N	Diorite; Bleached, Ser, Kaol wkly sheared, goss min Py sweats + diss.			wk silf	locally <10% Py		2320N	1800E	Kli
~~O~~ P	Calc-silicate hornfels + garnet. mt + epi filled fracs		Grab		RX	93	2950N	1800E	Kli
~~P~~ O	Fl-phyric [illegible], epi filled fracs + wk silf, intense bio		Grab				2680 ~~[illegible]~~	1800E ~~[illegible]~~	Kli
Q	Sheared, Bleached andesite Rusty; epi + 2-3% Py	Grab				4600E	~~[illegible]~~	1440N	?
R	Diorite?/FP. sheared goss, Ser clay + chl		Grab				1350N	4610E	Kli
S	Sheared diorite. carb + epi + cc in fracs Frac		Grab				1100N	4941E	Gray
T	Sheared fn [illegible] w 5-10cm, Qv irregular, goss on Selvages -1r			w/ Bo + chrys [illegible]			4+75N	4500E	Gray
U	Bleached chl diorite, wkly silf, no S=		Grab				6+25N	4800E	Gray
V	Sheared Chloritic diorite, wkly silf w fine	coating	+ diss	mal	1.0m chip		7+00N	4720E	Gray
W	Fels-phyric dio/mon wk pyritic; diss + fine	coating	mal	grab	2.0m chip		7+0N	4720E	Gray

Norex Delta

NORANDA EXPLORATION CO[illegible]ANY, LIMITED

0390

PROJECT NO. ~~1844~~ 148 PROPERTY Klym[illegible] N.T.S. 94D/8

T. NO. GRID REFERENCE DATE Sept 25/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Fe-Carb Felsic Intrusive, light brown	grab					3925E	950N	MLP
~~B~~ C	Laminated Clastic Sed & Agg. carbonate matrix	grab					3725E ~~3925E~~	750N ~~700N~~	DAVE
~~C~~ B	Intrusive Porphyry (Fel/Dior) w mag, rust on fract	grab					3925E	700N	DAVE
D	Felsic / Diorite Dyke 10% dissem py	grab					3725E	765N	DAVE
E	Diorite Kspar Fe Carb Alt. magnetic	grab					4000E	1100N	Gary
F	~~Hornfels Inter Vole dissem~~ No Sample	~~grab~~					~~3900E~~	~~1075N~~	
G	Alt Diorite Serpentine Skarn cal & qtz veins, rusty w py	grab					800E	2360N	Kli
H	Magnetite / Epidote Banded Skarn?	grab					800E	2500N	Kli
I	Py Cpy dissem Diorite - calcite on fractures	grab					800E	2540N	Kli
J	Hornfels Inter Vole. dissem & py stringer	grab					1000E	2800N	Kli
K	Large talus boulder hornfels dissem py	grab					1200E	2220N	Kli
L	Felsic Int, bleached, 20% dissem py ~~Large talus boulder hornfels dissem py~~	grab					1200E	2880N	Kli
M	hornfels meta-sediments dissem py	grab					1200E	2600N	Kli
N	Altered Deeply weathered Fel Int. dissem py, ser. silicified	grab					2575E	2005N	Kli
O	Py bxx, bleach sil, wk mag, fuchsite, fine py	grab					2600E	2510N	Kli
P	Intrusive Frag, garnet in chlorite	grab					2600E	2490N	Kli
Q	Feldspar Porphyry weak epidote	grab					2535E	2650N	Kli
R	Felsic Porphyry 10-15% fine dissem py	grab					2600E	2650N	Kli
S	Dark Diorite & mag dyke	grab					2600E	2900N	Dart
T	Intermediate Dyke - no sulphides	grab					2800E	2990N	Joh
U	Feldspar Porphyry tr py	grab					2800E	2975N	Joh
V	Coarse grained feldspar porphyry, py	grab					2800E	2600N	Kli
W	Pyrite Halo. Felsic Int. fine py	grab					~~2800E~~ 2715	2520N	Kli

0391

White - Office
... - Field

NORANDA EXPLORATION COMPANY, LIMITED

LAB: Norex - Delta
CERT. NO.: 9309-034
24 RX

PROJECT NO.: 183 + 184 PROPERTY: Golden R. / Jo
GRID REFERENCE:

N.T.S.: 94E/8E
DATE: Sept 25, 93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Diorite, Blenched goss, chl; bx	Grab					675N	4725E	Cro Tim/M
B	Blenched dio ~~feld~~ felds-porph, wkly silf, chl	Grab	goss fracs	Proj # 183			680N	4725E	Cro
C	Monzonite feldspar porphyry chl, mal	diss mm fracs	grab				650N	4715E	Cro
D	wkly Blenched dio tr of mal stains, MnO dam, chl	grab					635N	4710E	Cro
E	Gossanous microdiorite, frac (N-S), hem + mal stain	1m chip					3115N	2510E	Joh
F	Dark bio-diorite, with epi + mal + azurite stains		Grab				3115N	2520E	"
G	A4 level microdiorite fracd		Grab				3105N	2525E	"
H	Dark bio-diorite w mt, py, cpy + mal stains in frac		Grab				3100	2580E	
I	Epidote - Garnet - Mal Skarn: w Py + tr Cpy oxidized		Grab				183	184	
J	Massive Mt, mal coated fracs: diss py, cpy local		Grab						
K	Py - Cpy - mt epi - diorite		Grab		Proj. SG 184 9309.034				
L	Py - cpy - Mal, Epi - Diorite - Highly altered		Grab						
M	Massive Mag - py framboidal: epid		Grab		RX				
N	Laminated metasediment w fn Py diss		Grab						
O	Altered country rock: meta sed blenched py		Grab				3115N	2635E	
P	Sheared, bx, carbonated Fragmental, py in grn vol bx		Grab				3115N	2625E	
Q	Microdiorite w 5% diss Py: porphy >10% Py on fracs bx wkly mafic					Grab	3200N	2700E	
R	Felsic Dyke, w 3-5% Py	Grab					3200N	2760E	
S	Fragmental intrusive (Fel) xenolith? epi + goss chip to SE ~5% Py w light shears cc-qtz						3200N	2800E	
~~T~~ U	Fragmental, w py impregnation 3-5%, epi chl intrusive contact						3200N	2860E	
~~U~~ T	Basaltic flow massive, evenly 5-7% Py, chl		grab				3200N	2850E	
V	leucocratic blenched diorite w ~1% cpy epi + mt		Talus				3450N	2700E	
W	Banded mt - epi ± garnet w tr cpy + mal stain		Talus				3550N	2475E	

NORANDA EXPLORATION C(PANY, LIMITED

0392

B Norex Delta

RT. NO.

PROJECT NO. ~~[illegible]~~ 148 PROPERTY Kliyul

GRID REFERENCE

N.T.S. 93 D/8

DATE Sept 25/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Biotite Gabbro magnetic	grab					4200E	990 N	MLC
B	Augite Porphyry - 20% phenos	grab					4200E	960 N	Cry
C	Diorite leucocratic w Kspar, w Epidote	grab					4200E	900 N	Cry
D	Quartz vein (10cm) malachite stain, magnetite	grab					4200E	890 N	Cry
E	Felsic Dyke in Shear Zone po, py	grab					3380E	760 N	DareB
F	Micro-diorite, rusty on fractures	grab					3200E	1270 N	Kli
G	Intermediate Volc calcite lined fractures	grab					3200E	1310 N	Kli
H	Agglomerate Bx calcite + graphite in matrix	grab					3280E	1290 N	Kli
I	Rusty Mafic Dyke strongly magnetic	grab					3360E	1320 N	Kli
J	Agglomerate Rusty, Calcite Stockwork	grab					3200E	1430 N	Kli
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

NORANDA EXPLORATION COMPANY, LIMITED 0393

Row - Field

LAB Norex - Delta

PROJECT NO. 148 PROPERTY KLIYUL

N.T.S. 94D/15C

CERT. NO.

GRID REFERENCE

DATE Sept 26

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Bleached, goss diorite, sheared locally	tr Py	Grab				1620N	3580E	Kli /
B	Subcropping Bull qtz hem stained goss	on sub	nges	Grab			1620N	3575E	" /
C	over two meter wide qv (305/078°S) hem	tr Py	local,	Grab			1625N	3520E	" /
D	Hornfelsic andesite w epi+bio, fine cubic cs Py		Grab				2975N	2750E	Soh /
E	Epi-mt skarn in limy layered seds; ash fall; epi		·Pls wide layers				2975N	2665E	/
F	Qtz-carb veins in sheared andesite py-cpy-epi		1-2% S?				2925N	2560E	/
G	Intermediate dyke pyrite 2-3%. Bleached goss		Grab				3025N	2875E	
H	Bleached andesite/microdiorite, goss >5%	Fel dyke	Grab				3100N	3000E	v
I	sheared light green lithic andesitic Tuff pyritic		Grab				2865N	680E	Kli /
J	Intermediate Vol lithic tuff chl wk sil flooding		Grab				2980N	685E	Kli /
K	sheared intrusive, ser-hem +kaolin w vugy qtz vein (Schist)		Grab	70% qtz			3195N	800E	Soh /
L	Sheared Felsic intrusive w stockwork-qtz, mal stained		old trench waste Dump				3225N	775E	Soh
M	~~[illegible]~~ Silicified sst., qz veinlets, tourmaline-pyrite, 3% Py.		Grab				1029N	2400W	Don T
N	qtz-carb stockwork in wkly silf + carb fn Sed		Grab	< 5% qtz-carb			1125N	2340W	/
O	F.g. sst w qtz stringers, weakly calcareous, qz-carb veins, 3% Py.		Grab				1075N	2400W	
P	sheared wkly silf + carbonatized Sed (sst)						1307N	2400W	
Q	Qtz-carb stringers and sweats, wk hem staining,		tr Py	in carb lpli Tuff			1350N	2155W	
R	Qtz-carb str-zone in wkly fn Seds adjacent to fault/fmc zone						1350N	2105W	
S	fn laminated Sed (sst) w 3-5% po impregnation, wk carb alt. float						1350N	1975W	
T	Bleached, sheared wkly silf-diorite 3-5% Py		Grab				590N	4790E	Cra /
U	ditto						540N	4840E	" /
V	Alt. and., wkly calcareous, wkly magnetic, qz stringers, 2% fgds, local qz flooding		Grab				2710N	3600E	Kli /
W	F.g. sediment, 5% mgd/ff py, rusty W.S.		Grab				2800N	4300E	Cra /

NORANDA EXPLORATIO' 'OMPANY, LIMITED

0394

Bow - Field

LAB ______ PROJECT NO. 148 PROPERTY Kliyul N.T.S. ______

CERT. NO. ______ GRID REFERENCE ______ DATE ______

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Fg sed., slightly skarnified, 1-4% vfg/ff Py		Grab				3180E	2720N	Kli ✓
B	Sediment, rusty WS, 5-15% vfg/ff Py		Grab				3170E	2775N	Dar ✓
C	Alt volc?, 20-30% mgd Py, B-Qz rich, rusty WS		Grab				3200E	2910N	" ✓
D	Silic. volc, weakly magnetic, tr. sulf., maniposite		Grab				2925E	2650N	Kli ✓
E	Skarnified volc tuff, magnetite rich, 3% fg sulf.		Grab				2925E	2650N	" ✓
F									
G									
H									
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

VOID

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL – 148 | Geol.: T.W. | Date received: AUG. 27 | **LAB CODE:** 9309–006

Material: 173 Rx | Sheet: 1 of 5 | Date completed: SEP. 20

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

¤ Organic, & 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
12	383 – A	30	0.2	7.24	102	593	2.8	5	0.81	1.0	154	19	13	44	7.01	2.28	64	39	0.67	1990	2	0.10	23	0.17	92	98	0.30	150	307
13	B	20	0.2	4.80	2	481	0.2	5	1.47	0.2	48	14	42	40	5.16	0.71	11	11	1.63	723	1	0.10	22	0.07	3	242	0.20	171	63
14	C	10	0.2	4.97	5	555	0.3	5	3.90	0.4	65	14	14	23	4.46	0.93	12	10	0.95	1322	1	0.09	7	0.10	5	242	0.32	120	63
15	D	5	0.2	3.87	10	333	0.2	5	1.86	0.6	51	12	13	39	3.79	0.73	10	12	1.39	1130	1	0.13	7	0.09	2	155	0.27	164	70
16	E	5	0.2	4.38	7	520	0.2	5	1.18	0.2	43	13	17	28	4.11	0.75	9	13	1.73	466	8	0.23	6	0.08	4	107	0.16	133	37
17	F	10	0.2	7.39	3	1837	0.2	5	0.77	0.2	32	19	10	12	5.48	2.82	7	11	1.12	486	1	0.19	7	0.10	2	31	0.27	188	54
18	G	30	0.2	2.63	9	428	0.2	5	1.63	0.6	51	14	25	31	5.12	0.81	10	9	1.07	950	1	0.11	5	0.08	2	67	0.35	153	69
19	H	5	0.2	8.08	2	1086	0.4	5	0.58	0.8	35	17	6	32	4.80	3.48	10	9	1.10	700	1	0.06	6	0.09	5	16	0.23	166	82
20	M	90	0.2	3.41	18	131	0.2	5	2.64	0.3	58	21	20	11	4.70	0.53	12	9	1.24	1038	2	0.09	7	0.08	4	99	0.29	149	49
21	S	5	0.2	5.17	15	1620	0.3	5	0.76	0.4	39	12	27	10	4.51	2.01	11	11	1.17	509	5	0.10	6	0.09	2	25	0.26	158	33
22	383 – U	25000	32.0	2.11	5	178	0.2	5	1.01	0.3	40	38	58	20	15.66	0.65	10	3	0.31	424	3	0.06	5	0.06	2	38	0.11	96	18
24	386 – A	40	4.8	8.42	17	10	0.4	5	10.12	13.8	101	33	48	2228	8.60	0.03	17	7	0.56	894	1	0.03	37	0.12	5	570	0.42	314	1215
25	B	5	0.2	7.17	17	33	0.4	5	9.47	0.2	82	10	35	23	8.45	0.06	9	7	1.18	1235	1	0.06	24	0.10	3	487	0.44	245	52
26	C	5	0.2	1.48	2	2035	0.8	5	0.64	0.3	34	5	27	138	1.99	0.70	9	5	0.23	530	1	0.12	8	0.05	2	83	0.04	79	24
27	D	5	0.8	0.65	3	726	1.1	5	0.09	0.2	12	3	156	52	1.23	0.30	3	3	0.07	191	44	0.06	5	0.04	27	27	0.02	40	14
28	E	5	0.2	5.67	15	66	0.2	5	3.57	1.1	69	24	18	51	7.05	0.16	12	21	3.04	1036	1	0.18	11	0.11	5	160	0.82	263	101
29	F	5	0.4	7.21	4	161	0.4	5	0.54	0.7	36	5	16	83	6.18	0.54	12	43	2.45	550	2	0.76	7	0.10	5	182	0.05	195	65
30	G	5	0.2	3.48	15	264	0.2	5	1.81	0.8	65	3	26	25	2.82	0.40	15	10	1.58	375	1	0.14	9	0.08	2	155	0.25	138	37
31	H	5	0.2	2.72	10	72	0.3	5	3.72	0.3	55	5	41	11	1.39	0.11	10	14	1.19	457	2	0.09	12	0.08	4	138	0.24	97	23
32	I	5	0.2	6.44	10	92	0.3	5	7.18	0.2	67	20	77	20	6.77	0.09	8	8	1.12	848	1	0.06	29	0.09	2	328	0.40	229	36
33	J	5	0.2	3.92	2	782	0.2	5	2.55	0.2	54	7	42	12	2.53	0.50	10	9	0.80	738	3	0.12	9	0.07	2	238	0.09	72	43
34	K	5	0.2	4.08	9	35	0.2	5	3.70	0.2	60	11	29	153	4.93	0.07	12	9	1.53	549	4	0.12	23	0.09	2	207	0.34	117	28
35	L	5	0.2	4.07	14	333	0.2	5	3.90	0.5	62	44	33	264	6.49	0.72	12	14	1.97	776	2	0.16	21	0.10	6	175	0.53	247	52
36	M	20	0.2	4.97	7	77	0.3	5	3.99	0.2	60	36	27	65	5.97	0.56	10	16	1.73	771	1	0.11	17	0.11	28	249	0.45	222	82
37	N	50	0.2	3.98	10	73	0.2	5	3.11	0.5	60	7	21	32	6.39	0.39	11	13	1.65	721	2	0.15	11	0.10	17	181	0.55	206	77
38	O	190	0.2	1.34	13	48	0.2	5	4.02	0.2	53	25	69	56	4.00	0.13	8	6	0.89	1190	2	0.14	14	0.08	4	80	0.26	109	30
39	P	5	0.2	4.02	13	77	0.4	5	4.15	0.5	64	23	16	167	7.03	0.47	12	13	2.63	1254	1	0.28	16	0.16	3	227	0.61	305	71
40	Q	40	0.4	3.44	7	93	0.3	5	3.97	0.2	64	52	49	1048	5.04	0.45	12	9	0.79	700	6	0.10	18	0.17	5	189	0.37	149	45
41	R	5	0.2	2.48	13	47	0.3	5	4.18	0.2	64	21	55	300	2.26	0.28	11	6	0.45	579	2	0.10	13	0.15	3	142	0.36	122	20
42	S	80	0.2	3.47	11	190	0.3	5	1.94	0.5	57	51	53	685	4.91	1.20	13	14	1.47	593	2	0.09	24	0.15	3	97	0.24	157	48
43	386 – T	5	0.2	4.70	11	117	0.4	5	4.84	0.3	77	36	35	281	5.17	0.60	15	10	1.32	724	1	0.14	21	0.13	2	340	0.26	136	44
44	387 – A	5	0.2	5.28	5	280	0.2	5	3.01	0.6	68	26	10	61	6.92	0.49	15	22	2.07	1291	1	0.11	5	0.12	7	154	0.31	227	101
45	B	5	0.2	5.10	9	284	0.3	5	4.10	0.6	65	23	13	58	6.72	0.33	13	17	2.43	1254	1	0.14	5	0.09	4	202	0.40	262	86
46	C	5	0.2	3.53	12	95	0.3	5	3.13	0.8	63	27	39	94	6.40	0.35	12	18	2.96	848	1	0.23	28	0.10	2	81	0.40	240	54
47	387 – D	20	0.2	2.74	14	133	0.3	5	2.81	1.3	62	28	62	141	5.65	0.28	13	10	2.70	836	2	0.23	30	0.10	5	58	0.35	190	54

21/09 Vanc

ET. 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
48	387 - E	5	0.2	6.13	5	1028	0.3	5	2.91	0.7	68	18	8	55	5.66	1.81	16	25	1.69	1005	1	0.09	9	0.11	3	107	0.08	173	93
51	4720E-5870N	5	0.2	5.22	16	11	0.4	5	5.40	0.2	73	18	36	4146	5.94	0.05	14	12	1.86	716	1	0.08	23	0.10	3	362	0.52	273	41

NORANDA EXPLORATION C[illegible]PANY, LIMITED 0383

LAB Norex-Delta Bdl PROJECT NO. 148 PROPERTY KLIYUL N.T.S.

CERT. NO. GRID REFERENCE DATE

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Brecciated Andesite, Bleached. Pyrite 3-5%	Rx	Grab				2690E	2550N	TW
B	fine grained andesite, tr Py + mg dyke/sill?		Grab				2500E	2550N	KLI
C	Hornfelsed andesite with cc + epi on fracs		Grab				2400E	2837N	DORT
D	Qtz-epi str. zone, narrow discrete fracs (cm)	composite grab					2200E	2600N	KLI
E	Fractured pyritic Bleached Andesite, dil sh		Grab				2200E	2500N	KLI
F	Silicified Andesite w fn py diss. sheared		Grab				2000E	2675N	KLI
G	fine grained andesite; pyritic wk silf. + Bl 3-5% Py		Grab				2000E	2700N	KLI
H	Carbonatized sheared andesite		Grab				2000E	2665N	KLI
M	wk silf + epi, fn grained Andesite w fn Py diss	Grab					2670N	2000E	
S	Silicified, fractured andesite w fn Py ≤5%	grab					2725N / 1800E (near 255 [illegible])		
U	Semi massive sulphide Py adjacent to Qv (182-7)	Grab							

adjacent to veins

GINGER B
ZONE AREA

0386

NORANDA EXPLORATION COMPANY, LIMITED

LAB ______ PROJECT NO. ______ PROPERTY Golden Rule/[illegible] N.T.S. ______

CERT. NO. ______ GRID REFERENCE Recce Grid DATE Aug. 21/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER Tw/KE
A	Strongly epidotized int(?), chloritic, Mc, 2% vfg Py	o/c	grab				100+15E	102+50N	Croy
B	Chloritic aug. porph, rare d Py, very magnetic, some epidote						100+00E	101+90N	
C	Qz-carb alt. int, no V.S.						100+00E	104+50N	
D	Qz-carb alt. int. w stkwk qz veins (mm-3.5cm) No V.S.						99+90E	104+50N	
E	Bleached sediment, 2% d. magnetite, local 5% vfg d P						99+95E	109+50N	
F	Int./aug porph, weakly sericitic, limonitic, trace oxid sulfides						101+00E	103+65N	
G	Alt. qz monz, trace sulfides, limonitic w.s.						100+85E	102+20N	
H	Altered intrusive, no sulfides,						100+25E	102+40N	
I	Aug porph/int, very wk mag, trace to local 5% fg d Py	o/c	grab				100+15E	102+50N	
J	wkly altered silf, propylitic alted (epi) Qtz-monzonite		grab				100+50E	102+40N	
K	chloritic Augite Porphy w tr of Py		grab				100+30E	102+35N	
L	Hornfelsed augite phyric andesite; epi, tr-2% Py locally etc		grab				L-2900E	3190N	Soh ✓
M	gossan epidotized augite porphyry Py+Po	2m composite chip					L-2900E	3260N	
N	gossanous Pyritic Augite porphyry						2915E	3135N	✓
O	Brec. w siliceous, epi, chl Py+Po; magnetic			MAJOR			2900E	3450N	
P	strongly epidotized andesite locally sheared		grab	GENERAL			2900E	35+25N	✓
Q	micro-dio, Brec, epi tr Py mal coated Brec						2500E	3170N	
R	dk green microdio w diss mal + Azu ? fracs						2510E	3115N	
S	Hornfelsic rock. weekly silf; augite phyric And/lo		grab	Py+Po, Azu-Mal			2505E	3115N	
T	pyritic gossan, rare wk mal stain; 1% diss Py + epi		grab				2490E	3115N	
U									
V									
W									

VOID

Norex-Delta B.C.

NORANDA EXPLORATION COMPANY, LIMITED

0383

PROJECT NO. 148 PROPERTY KLIYUL N.T.S.

NO. GRID REFERENCE DATE

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Brecciated Andesite, Bleached. Pyrite 3-5%	Rx	Grab				2690E	2550N	TW
B	fine grained andesite, tr Py, ing dyke/sill?		Grab				2500E	2550N	KLI
C	Hornfelsed andesite with cc + epi on fracs		Grab				2400E	2837N	DORT
D	Qtz-epi str. zone, narrow discrete fracs (cm)		composite grabs				2200E	2600N	KLI
E	Fractured pyritic Bleached Andesite, del ser		Grab				2200E	2500N	KLI
F	Silicified Andesite w fn py diss. sheared		Grab				2000E	2675N	KLI
G	fine grained andesite; pyritic, wk silf. + Bl 3-5% Py		Grab				2000E	2700N	KLI
H	Carbonatized sheared andesite		Grab				2000E	2665N	KLI
M	wk silf + epi, fn grained Andesite w fn Py diss	Grab					2670N	2000E	
S	Silicified, fractured andesite w fn Py ≤5%	grab					2725N / 1800E (near 255 086 Sud)		
U	Semi massive sulphide Py adjacent to Qtz (182-7)	Grab							

adjacent to veins

GINGER B
ZONE AREA

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** T.W. **Date received:** AUG. 05 **LAB CODE:** 9308 – 008

Material: 26 Rx **Sheet:** 1 of 1 **Date completed:** AUG. 26

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
97	381 – A	20	0.2	3.38	11	260	0.2	5	2.44	0.2	52	17	30	211	6.40	0.85	9	10	2.01	946	6	0.28	5	0.08	2	74	0.36	177	83
98	381 – B	180	2.4	3.45	22	56	0.2	5	3.72	0.2	65	2	59	299	12.38	0.21	15	5	0.43	670	22	0.04	1	0.05	2	154	0.10	104	57

9308 - 033

ET. 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
93	381 – C Float	200	24.4	5.93	12	711	0.3	5	2.84	6.6	55	19	19	4863	4.69	2.22	7	10	0.61	649	5	0.10	9	0.08	4513	67	0.30	177	1059
94	D	10	0.4	1.89	2	66	0.9	5	0.04	0.5	15	1	78	32	0.56	0.81	4	2	0.09	221	5	0.12	2	0.01	51	4	0.02	10	75
95	E	40	0.2	4.40	2	713	0.2	5	0.87	0.2	35	7	22	70	5.83	0.64	9	17	2.46	594	3	0.10	5	0.08	2	92	0.37	215	303
96	381 – N CV	3100	36.4	0.44	2	2112	0.2	5	0.09	0.2	11	7	181	535	2.34	0.16	2	3	0.14	241	10	0.02	27	0.01	76	39	0.01	16	20
97	382 – F 37E/NE30	5	0.2	6.08	2	298	0.3	5	3.06	0.2	64	4	9	44	5.38	0.83	12	11	1.92	1096	2	0.16	3	0.08	2	207	0.37	202	106
98	H	130	0.2	2.86	2	776	0.2	5	0.47	0.2	33	4	18	41	4.41	1.18	10	7	0.80	630	46	0.11	3	0.09	16	34	0.22	88	94
99	K	5	0.2	1.51	2	13	0.2	5	0.22	0.2	29	1	84	65	8.67	0.03	11	16	0.36	206	3	0.03	1	0.04	2	14	0.06	84	35
00	382 – L Float 320SE/224orN	810	10.0	4.05	2	257	0.4	5	3.50	0.2	63	16	104	3728	4.89	0.70	11	12	1.82	917	5	0.15	39	0.15	4	189	0.34	112	105

NORANDA EXPLORATION COMPANY, LIMITED 0381

NOREX-DELTA 66 | PROJECT NO. 148 | PROPERTY KLIYUL | N.T.S. 94D/3

RT. NO. | GRID REFERENCE | DATE August 9?

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Angular float Block, py + po	Float					3200E	2150N	Kli
B	Subangular semi-massive popo, gossan	Float					3200E	2150N	"
B	Quartz (Vein) boulder train. No visible S=	Float?	Subangular				3400E	2130N	"
K	Carbonatized andesite w/ qz-chl + cpy + py impregnation	Float					4200E	2090N	Croy
E	Massive pyritic andesite py 3-5% chl	Rock	Grab				3760E	2010N	Kli
N	Grab from subangular Qv. moss? lim. stain tr. ...				4000E	2150N	Qtz bold train		

	128	−0.5	170	0.2	5.88	2	568	0.4	5	0.71	0.3	26	4	25	251	4.91	1.70	16	34	2.49	806	5	0.11	7	0.09	48	60
KLP	133	−3.0	20	0.2	5.19	2	813	0.3	5	0.89	0.3	28	12	12	86	5.06	2.06	10	19	2.19	646	2	0.09	6	0.12	7	96

GP

0382

NORANDA EXPLORATION COMPANY, LIMITED

LAB ______ PROJECT NO. 148 PROPERTY KLIYUL N.T.S. 94D-

CERT. NO. ______ GRID REFERENCE ______ DATE ______

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
F	Goss Ser schist / altered monzonite: Py + Po	wkly mag [illegible]							
H	Vuggy qtz with tr of cubic py "								
I	Big Boulders of Massive Qv boulders in main CK, in	situ?	Tr Py				L 3900E / 2110N		Kli
J	Angular Boulder of Silt andesite w qtz sweats in CK	tr Py	Float				3610E / 2190N		Kli
K	Magnetite-Epidote Skarn float in CK; strong magnetite [illegible]						3140E /	2270N	Kli
L	Holocrystalline chl andesite w tr magnetite + malachite	Staining		Float	– Area of Frequent [illegible] Float				Kli

	120	– 0.5	170	0.2	5.88	2	568	0.4	5	0.71	0.3	26	4	25	251	4.91	1.70	16	34	2.49	806	5	0.11	7	0.09	48	60	0.18	138	270
31 KLP	133	– 3.0	20	0.2	5.19	2	813	0.3	5	0.89	0.3	28	12	12	86	5.06	2.06	10	19	2.19	646	2	0.09	6	0.12	7	96	0.25	171	147

GP

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** T.W. **Date received:** JULY 26 **LAB CODE:** 9307–031

Material: 67 Rx **Sheet:** 1 of 2 **Date completed:** AUG. 04

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

¤ Organic, & 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
156	378 – A	20	1.2	5.67	2	141	0.3	5	6.07	0.2	52	20	45	511	7.30	0.34	10	7	1.18	728	3	0.12	26	0.10	5	387	0.40	215	110
157	B	5	0.4	4.17	2	1051	0.2	5	0.51	0.2	20	6	35	30	3.64	1.63	6	9	0.92	244	2	0.11	7	0.05	2	59	0.19	128	50
158	C	5	0.2	3.57	9	746	0.2	5	1.02	0.2	32	16	49	36	5.52	1.26	10	13	1.63	905	3	0.21	7	0.08	2	64	0.32	183	75
159	D	280	0.4	3.20	14	1701	11.7	5	0.05	0.2	14	6	117	12	2.31	1.47	8	1	0.11	100	16	0.05	10	0.03	2	85	0.04	55	26
160	E	180	0.8	3.71	19	783	2.2	5	0.74	0.2	29	11	139	11	3.23	1.75	10	2	0.25	403	22	0.05	11	0.04	2	34	0.05	67	30
161	F	5	0.2	3.57	2	1338	1.0	5	2.87	0.2	58	8	81	24	3.06	1.53	21	4	0.62	689	4	0.15	10	0.08	2	95	0.04	80	43
162	G	30	0.2	4.96	4	453	0.9	5	4.37	0.2	49	20	77	71	6.68	1.13	14	36	3.08	895	1	0.22	34	0.09	3	134	0.08	258	121
163	H	5	0.2	3.07	2	957	0.8	5	1.79	0.2	56	7	85	9	2.91	1.22	20	8	0.31	510	4	0.12	10	0.08	2	46	0.05	68	45
164	I	20	0.4	4.40	10	176	0.4	5	3.32	0.2	46	36	112	259	5.79	0.65	12	17	3.17	1117	1	0.23	57	0.11	3	181	0.38	195	80
165	J	10	0.2	3.55	2	56	0.2	5	2.45	0.2	46	15	78	29	4.84	0.50	13	13	1.63	550	1	0.10	26	0.11	2	165	0.44	157	57
166	K	50	0.4	2.17	5	147	0.2	5	1.82	0.2	46	41	57	90	7.51	0.58	11	10	1.23	567	2	0.15	29	0.07	4	108	0.46	183	43
167	L	70	0.4	3.12	5	76	0.2	5	2.65	0.2	47	40	63	24	5.46	0.69	11	12	1.32	444	1	0.15	28	0.10	2	110	0.31	121	33
168	M	60	1.2	3.37	19	12	0.3	5	5.38	0.2	61	34	52	497	22.26	0.09	21	4	0.50	1510	3	0.07	25	0.10	32	117	0.13	105	58
170	N	30	0.4	3.24	19	13	0.3	5	7.64	0.2	57	17	58	228	21.19	0.06	14	5	0.47	2259	2	0.06	18	0.15	29	61	0.20	120	57
172	O	10	0.4	2.60	14	6	0.3	5	13.69	0.2	40	11	92	161	13.64	0.04	6	5	0.17	4245	4	0.04	9	0.09	18	42	0.07	80	27
173	P	5	0.4	2.50	14	42	0.3	5	12.28	0.2	45	11	74	169	10.75	0.17	11	7	0.45	3864	2	0.10	8	0.10	11	59	0.15	98	30
174	——Q	1000	3.2	1.96	36	11	0.6	5	3.83	0.2	55	142	70	6014	17.92	0.11	23	6	0.63	1380	4	0.03	49	0.06	27	60	0.01	90	76
176	R	60	0.2	4.61	2	149	0.4	5	4.42	0.2	51	26	35	693	5.15	0.81	14	11	1.10	829	1	0.11	21	0.14	3	203	0.35	133	32
177	S	60	0.4	3.60	2	131	0.3	5	3.42	0.2	52	44	64	719	5.08	0.65	15	8	0.91	563	2	0.13	22	0.13	3	210	0.38	132	28
178	T	150	0.8	2.32	2	94	0.2	5	2.22	0.2	46	28	63	573	4.29	0.55	12	9	0.94	476	4	0.14	20	0.17	3	119	0.35	130	27
179	U S	100	1.6	4.33	7	8	0.4	5	8.25	0.2	49	68	53	1412	16.15	0.05	9	4	0.22	2213	2	0.04	17	0.09	19	174	0.07	185	42
181	V	120	0.8	4.14	19	38	0.6	5	6.91	0.2	56	13	58	339	19.13	0.13	17	9	0.21	1607	4	0.04	11	0.08	23	170	0.15	112	53
182	378 – W	140	2.8	2.87	13	3	0.4	5	9.64	0.2	46	167	67	985	13.46	0.04	8	4	0.14	2245	1	0.03	28	0.05	12	99	0.03	92	35
184	379 – A	5	0.2	3.56	2	625	0.6	5	0.21	2.5	45	61	66	12000	3.35	1.02	24	12	0.39	1838	4	0.24	16	0.09	3	38	0.05	94	287
185	B	60	0.8	7.18	2	504	0.4	5	0.05	0.2	21	12	23	1798	6.68	1.40	13	44	1.56	402	11	0.49	11	0.11	2	57	0.08	191	180
186	C	80	0.8	7.42	2	482	0.4	5	0.04	0.2	19	6	23	334	6.71	1.28	11	47	1.43	146	11	0.61	10	0.11	3	71	0.07	181	173
187	D	160	0.8	6.77	2	298	0.4	5	2.27	0.2	51	2	21	147	5.95	0.79	14	46	1.88	697	2	0.29	6	0.10	8	230	0.30	161	188
188	E	110	1.2	8.76	2	805	0.4	5	0.08	0.2	32	7	19	402	5.51	2.91	16	38	1.22	294	2	0.36	6	0.10	2	52	0.07	129	88
189	F	40	0.8	6.23	2	218	0.3	5	4.35	0.2	52	10	49	555	6.77	0.75	13	10	1.03	515	5	0.48	10	0.11	2	145	0.45	174	41
190	G	5	0.4	2.63	6	56	0.2	5	2.69	0.4	46	25	99	182	5.83	0.42	12	12	1.84	906	9	0.17	41	0.08	6	113	0.46	181	65
191	H	10	0.2	1.60	10	268	0.5	5	0.20	2.4	36	11	149	7324	1.32	0.60	26	8	0.35	283	8	0.12	9	0.04	6	20	0.09	41	108
192	I	5	0.4	4.21	2	197	0.3	5	3.48	0.5	42	26	80	1939	5.85	0.56	10	14	2.39	743	1	0.32	31	0.09	2	150	0.43	211	58
193	J	2000	8.8	4.37	4	170	0.3	5	2.52	1.2	51	79	28	9804	7.84	0.61	16	22	1.89	670	202	0.09	33	0.19	19	404	0.22	153	88
194	K	130	0.8	2.28	2	202	0.2	5	0.46	0.3	21	14	48	790	5.63	0.76	8	18	1.92	314	2	0.11	8	0.12	2	16	0.34	227	27
195	379 – L	610	5.6	5.17	2	309	0.3	5	3.29	0.4	41	9	46	3991	5.77	1.16	10	21	1.49	1230	6	0.07	12	0.08	2	120	0.38	167	70

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	p.
196	379 – M	60	0.4	3.50	2	400	0.2	5	3.16	0.6	44	50	59	276	7.89	0.78	11	16	3.02	1081	1	0.25	30	0.08	2	94	0.49	218	80
197	N	430	5.2	4.20	3	107	0.3	5	2.22	0.9	39	25	85	3306	7.86	0.63	11	29	3.38	1377	3	0.07	29	0.08	8	37	0.08	255	128
198	O	200	0.4	2.63	8	42	0.2	5	2.06	0.2	37	17	75	118	6.54	0.19	8	8	2.11	513	1	0.15	36	0.07	2	113	0.47	191	42
201	P	5	0.2	3.50	10	90	0.7	5	3.03	0.5	73	16	42	132	4.45	0.15	27	16	1.46	921	1	0.16	11	0.15	4	648	0.41	160	81
202	Q	5	1.2	6.12	7	32	0.7	5	6.10	0.2	73	19	66	320	23.74	0.08	27	12	1.16	1374	5	0.06	34	0.12	32	374	0.24	181	72
204	R	4400	10.4	4.47	5	8	0.6	5	7.56	0.2	60	26	163	13000	13.03	0.03	18	4	0.18	614	6	0.03	51	0.59	11	267	0.24	264	66
205	S	4600	4.8	1.97	19	42	1.2	5	4.92	0.2	55	19	74	794	27.18	0.12	18	9	0.85	1074	80	0.06	91	0.15	49	67	0.07	721	70
206	T	150	1.2	1.99	2	123	0.2	5	3.35	0.2	55	39	77	642	3.04	0.35	14	6	0.38	545	6	0.09	14	0.15	2	127	0.32	108	21
207	U	90	0.4	4.14	2	254	0.4	5	3.14	0.2	48	26	111	366	5.32	0.83	14	14	2.05	1008	1	0.29	50	0.15	2	339	0.36	123	75
208	V	10	0.2	0.10	2	6	0.2	5	0.04	0.2	5	2	364	36	1.45	0.01	1	1	0.08	47	15	0.03	5	0.01	2	3	0.02	24	4
209	379 – W	10	0.4	4.26	2	165	0.2	5	3.83	0.2	42	20	44	214	7.22	0.42	10	10	2.50	1486	1	0.21	21	0.09	2	107	0.55	300	102
210	380 – A	30	0.8	2.83	3	117	0.2	5	2.69	0.2	41	36	58	348	4.20	0.52	9	7	0.45	251	10	0.12	23	0.10	2	206	0.38	109	25
211	B	140	1.2	3.29	13	92	0.3	5	1.08	0.5	37	29	59	437	5.97	0.54	15	22	2.43	481	4	0.09	19	0.13	5	104	0.30	175	41
212	C	20	0.8	3.09	8	226	0.2	5	1.66	0.2	36	20	24	146	6.79	0.97	10	16	2.45	727	1	0.16	7	0.13	2	39	0.53	294	48
213	D	5	0.4	4.67	2	232	0.6	5	4.05	0.2	58	10	42	30	3.97	0.68	20	9	1.16	823	3	0.11	17	0.12	4	633	0.24	103	71
214	E	20	1.2	2.96	9	66	0.2	5	2.77	0.2	41	31	121	28	5.16	0.39	10	9	2.14	552	2	0.14	55	0.09	2	136	0.35	151	45
215	F	2300	4.0	2.96	54	793	0.7	5	0.29	0.2	23	5	117	12	2.87	1.39	10	2	0.14	170	10	0.05	7	0.04	722	23	0.04	57	115
216	G	440	6.4	2.59	7	238	0.2	5	3.08	0.3	43	23	56	3853	5.42	0.57	11	14	2.05	746	5	0.08	24	0.09	12	90	0.27	208	63
217	H	5	0.8	3.56	6	419	0.3	5	2.61	0.2	43	17	49	145	4.45	1.05	11	15	2.13	620	17	0.09	22	0.11	2	122	0.41	220	36
218	I	5	0.8	4.30	3	295	0.3	5	3.79	0.2	51	19	30	411	5.05	0.72	15	13	1.54	598	91	0.09	11	0.14	2	329	0.41	195	33
219	J	5	1.2	4.50	4	374	0.3	5	3.75	0.2	54	22	27	555	5.06	0.96	16	13	1.61	606	9	0.08	11	0.14	5	317	0.40	198	32
220	K	5	1.2	4.17	2	408	0.3	5	3.45	0.2	52	15	29	546	4.50	0.95	15	12	1.42	499	3	0.09	10	0.13	2	309	0.40	176	27
221	L	40	2.4	3.68	12	281	0.5	5	3.04	0.4	48	60	143	1603	7.15	0.58	17	27	3.25	856	26	0.07	58	0.09	5	63	0.36	251	79
222	M	5	0.8	4.23	2	166	0.3	5	3.27	0.2	46	40	119	1106	7.12	0.39	13	21	4.05	978	8	0.09	59	0.09	2	131	0.49	282	51
223	N	5	1.2	4.38	2	171	0.3	5	3.61	0.2	46	39	118	1142	6.59	0.39	12	20	3.80	964	4	0.08	61	0.08	3	215	0.47	267	47
224	O	160	0.8	0.69	8	177	0.3	5	5.06	0.2	42	10	165	85	2.71	0.29	7	4	0.51	779	10	0.07	13	0.04	5	141	0.03	66	47
225	P	130	2.0	1.80	11	403	0.6	5	5.55	0.2	43	38	31	442	6.16	0.82	8	6	1.25	1032	5	0.09	18	0.09	9	201	0.10	97	64
226	Q	20	0.2	3.79	3	201	0.3	5	3.68	0.2	45	41	131	1199	6.64	0.42	12	19	3.34	924	11	0.08	54	0.08	2	168	0.43	250	46
227	R	5	0.2	4.15	7	178	0.3	5	4.07	0.2	44	39	107	1272	5.96	0.41	11	17	3.24	848	15	0.10	54	0.08	2	195	0.45	251	42
228	S	5	0.8	4.04	3	154	0.3	5	3.54	0.2	43	39	128	1070	6.82	0.41	12	22	3.85	919	5	0.08	57	0.08	2	115	0.48	283	50
229	T	5	0.2	3.71	2	117	0.2	5	3.37	0.2	41	20	109	193	5.52	0.40	11	12	2.03	539	4	0.10	43	0.08	2	189	0.43	206	37
230	380 – U	10	0.8	2.83	2	85	0.2	5	2.69	0.2	40	21	138	287	6.64	0.35	10	8	1.14	318	19	0.07	40	0.07	2	188	0.36	160	27

NORANDA EXPLORATION [C]OMPANY, LIMITED — 0378

LAB ________ PROJECT NO. 148 PROPERTY KLIYUL

CERT. NO. ________ GRID REFERENCE ________

67 Ra

SAMPLE REPORT

9307

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINA[TES]		
A	Silicified volc, 10% f.g.d. Py, local ep. alt.						L-5800E	2860	TWC
B	Pyritic andesite (Bleached 5% Py fr	gmb					L-26N	2150E	✓" Joh
C	Pyritic andesite, wkly silf + ser ~10% Py	gmb					L-2600N	2000E	" Jo
D	Qtz-carb vein, irregular in sheared carb zon	~~[illegible]~~	gmb				3160N	4250E	John/
E	Qtz-carb-py vein sub outcrop		gmb				"	"	John
F	Altered granite - carb & Py - ~~faulted~~ contact		gmb				"	"	John
G	Qtz-carb veins + sweats		gmb				3160N	4220E	John"
H	Weakly carb andesite - (along fractures) chl		gmb				3120N	4210E	John"
I	Gossanous, andesite, py wk silf		gmb	[illegible]			L-33[illegible]N	36[illegible]0E	John
J	wkly Sericitic silf andesite fractured		gmb				3325N	3600E	John
K	Andesite with weakly pyritic veinlets + diss Py ± sulph		Talus				3350N	2690E	John
L	Brecciated/fragmental andesite ~15% Py + silf		Talus				3420N	2768E	John
M	magnetite - epidote + hem? mass Skarn	chip	2m chip						"
N	Magnetite - epidote + calc-silicate "	chip	2m ch						"
O	" " "	chip	1.0m						"
P	Calc-sil epi wk magnetite "	chip	1.5m						"
Q	massive magnetite - pyrite ± cpy ± malachite	chip	1.5m						"
R	" " pyrite calc.silicate rock.	chip	2.0m						"
S	" " " " + malachite tr?	chip	2.0m						"
T	Calc. silicate Skarn / hornfels tr of Sulph	Chip	1.0m						"
U	Massive magnetite pyrite epi-chl skarn	gmb							"
V	Epi-chl magnetite, pyrite Skarn	chip	1.0m						"
W	magnetite - pyrite - epidote mass skarn	chip	2.0m						"

(Samples M–W, bracketed:) NEW SKARN SHOWING
For Location
Centered @ L-2645E/3350N
Exposed dimension
11m wide and 25m long

NORANDA EXPLORATI[illegible] COMPANY, LIMITED 0379

LAB ______________________ PROJECT NO. 148 PROPERTY Kliyul

CERT. NO. ______________________ GRID REFERENCE ______________________ DA[illegible]

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		
A	And tuff (?) Mc on surface, no vis. sulf. poorly dvlp. silicic flooding	O/C	Grab	Cu	Au		2660 N	785 E	✓ CE
B	} Similar to "A" but some surfaces show	O/C	2m chip	Cu	Au		2660 N	790 E	✓ K
C	} slickensides	O/C	2m chip	Cu	Au		2660 N	790 E	✓ K
D	Sheared slightly chl. volc. tuff, 2% Py, rusty W.S.	O/C	Grab	Cu	Au		2760 N	800 E	✓
E	Sheared chloritic, sericitic volc., 3%-5% mgd Py	O/C	Grab	Cu	Au		3[illegible]00 N	750 E	✓
F	Silicified tuff, ep-3% Py alt., Py also in frac.	O/C	Grab	Cu	Au		3200 N	1050 E	✓
G	Hornfelsed volc., 1-2% diss Py, Py in frac., rusty WS	Grab/oc	Grab	Cu	Au		4200 N	4500 E	
H	Int., no visible sulfides, malachite on surface	Talus		Cu	Au		3350 N	3580 E	✓
I	Augite porphyritic volc., malachite, rare f.g.d. Py	Talus		Cu	Au		3550 N	3400 E	✓
J	Alt. volc. w stringer carb/silica vein., Malachite, trace f.g. Py	Talus		Cu	Au		3550 N	3650 E	✓
K	Silicified aug. porph. volc., 3% m g d Py	O/C	Grab	Cu	Au		3150 N	3876 E	✓
L	Qz vein (1cm) in calcareous and. vein hosts trace Py, magnetite, malachite	Talus		Cu	Au		3112 N	3585 E	✓
M	Volc., trace dissem. f.g. Py, Py on fractures, pervasive magnetite	Talus		Cu	Au		3110 N	3600 E	✓
N	Volc., poorly dvlp. silica flooding, magnetic, malach., trace Cp, Py	Talus		Cu	Au		3105 N	3590 E	✓
O	Volc., 4-5% mgd. Py and Py in frac., rusty WS	O/C	Grab	{	{		4700 E	4430 N	"
P	Epidotized feldspar porphyry dyke	O/C	Grab	}	}		4700 E	4360 N	"
Q	Magnetite skarn, qz veining, minor diss Py	Talus		Cu	Au		3350 N	2487 E	✓
R	Volc (?) magnetic, minor silica flooding, 7% mgd Py	Talus		{	{		3350 N	2483 E	✓
S	Magnetite skarn, epidote, silica, 3% fgd Py, rare malach.	Talus		}	}		3350 N	2483 E	✓
T	Silicified banded tuff, rare epidote, minor Mc, trace Py	Talus		Cu	Au		3350 N	2450 E	✓
U	Andesite w ep-calc stringers. 2% mgdis. Py, Az on calcite fractures	Talus		Cu	Au		3350 N	2400 E	✓
V	Qz vein in aug. porph. volc., no visible sulfides, rusty WS	Talus		"	"		3200 N	5175 E	
W	Aug. porph. volc., epidote alteration, 2%-3% fgd Py, minor qz veins	Talus		"	"		3175 N	5900 E	

0380

White - Office
Y - Field

NORANDA EXPLORATION COMPANY, LIMITED

LAB ____________ PROJECT NO. 148 PROPERTY KLIYUL N.T.S. 94D/9E

CERT. NO. ____________ GRID REFERENCE ____________ DATE JULY/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Ep. alt. volc. bx, 5% Py assoc w ep, local carb alt.						L-2610E	3950N	Sch
B	Andesite 3-5% S (Py) epi carb veinlets	Talus					3400N	2750E	Sch
C	Andesite mass 2-3% Py	Grab					3400N	2800E	Sch
D	Mod. gr. intrusive syenite / [illegible], chl	grab					L.47E	4450N	Sch
E	Gossan 3-5% Py epi	Talus					4625E	4450N	Sch
F	Carb-qtz (SiO2) flooded sus outcrop?	chip	1.0m				4710E	2950N	Cray
G	Qtz-chl-carb-py vein shear zone	chip	1.0m	same as 376-H			L.5800E	2412N	Cray
H	Propylitized diorite w tr cpy + py intense epidote	chip	2.0m						Cray
I									
J				Showing L.5800E - 5720E / 2415N					
K									
L	sheared, chlzed, carb mal tr cpy + py diorite	chip	2m						
M	" " mal + cpy	"	2m						
N	" " " "		2m						
O	Quartz-carbonate irregular veins discontinuous	Grab					L-2100N	2030E	Kli
P	Silicified carbonatized seds? w tr py	"					"	"	Kli
Q	Same as N		2m						Cray
R	same as Q		2m	Showing L5800E - 5720E / 2415N					
S	Sheared diorite w mal diss + stains py chl-epi		2m						Cray
T	Intrusive margin and wall py-epi vein, bx angle		2m						Cray
U	Gossan pyritic		Grab						Cray
V									
W									

VOID

Total = 21 Samples

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: GOLDEN R / JO – 183 / 184 **Geol.:** T.W. **Date received:** SEP. 25 **LAB CODE:** 9309–034

Material: 23 rx +1 **Sheet:** 1 of 1 **Date completed:** OCT. 05

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

¤ Organic, A 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
119	391 – A	80	0.2	6.41	2	414	0.2	5	2.31	0.3	56	9	27	590	7.99	0.76	10	21	3.30	1444	1	0.07	12	0.06	4	127	0.54	387	181
120	B	80	1.6	4.04	2	574	0.3	5	0.84	0.2	40	8	31	203	3.76	0.77	9	12	0.96	578	1	0.16	6	0.08	2	115	0.04	81	172
121	C	1400	0.2	3.69	2	951	0.4	5	1.34	0.8	48	11	32	2911	2.63	0.91	13	11	0.85	1310	1	0.12	10	0.06	6	93	0.04	68	261
122	D	10	0.2	5.77	2	467	0.4	5	3.15	0.2	70	14	20	316	4.46	0.79	13	17	1.30	1165	1	0.14	10	0.09	2	239	0.07	99	106
123	E	90	0.2	3.16	2	156	0.3	5	2.37	0.2	64	53	52	495	6.17	1.00	11	14	1.32	772	4	0.09	21	0.17	2	91	0.35	149	50
124	F	70	0.2	2.59	7	88	0.3	5	2.73	0.2	64	43	48	672	3.25	0.58	12	9	0.76	820	1	0.10	18	0.16	2	96	0.34	123	35
125	G	230	0.2	4.12	3	79	0.4	5	4.43	0.2	74	46	29	278	6.23	0.52	15	8	0.58	735	2	0.09	21	0.17	2	304	0.34	115	24
126	H	1030	2.4	4.18	2	534	0.2	8	2.07	0.4	69	31	25	3838	8.98	1.68	19	23	2.27	1036	1	0.08	13	0.15	2	117	0.36	211	74
127	I	1030	4.4	2.31	29	8	0.4	5	9.62	0.2	103	50	48	3244	14.30	0.05	31	4	0.25	2321	3	0.04	28	0.09	5	99	0.13	121	42
128	J	55	0.2	0.81	36	55	0.6	5	1.81	4.5	84	34	38	264	31.35	0.10	25	3	0.36	868	5	0.04	39	0.12	44	31	0.04	237	70
130	K	640	1.2	1.00	132	7	0.3	5	13.56	0.2	78	45	54	1453	16.51	0.04	6	5	0.11	3763	4	0.03	9	0.08	6	31	0.02	50	25
131	L	1200	2.8	0.81	92	9	0.4	5	14.67	0.2	61	56	61	6381	15.31	0.03	5	6	0.10	3904	4	0.03	10	0.08	3	15	0.01	44	31
132	M	1010	0.8	1.06	39	30	0.7	5	1.27	2.7	132	244	54	511	30.95	0.10	82	3	0.31	534	23	0.03	71	0.11	45	35	0.04	210	61
134	N	5	0.2	2.03	3	289	0.2	5	2.39	0.2	57	17	117	167	4.51	0.50	14	10	1.02	579	2	0.11	37	0.07	2	62	0.28	126	49
135	G	40	0.2	4.73	4	470	0.3	5	3.80	0.2	60	30	14	181	4.64	1.36	10	19	1.28	907	1	0.11	8	0.13	2	114	0.25	135	53
136	P	50	0.2	4.88	2	266	0.4	5	3.75	0.2	61	37	23	391	5.51	1.17	12	16	1.59	586	1	0.11	25	0.10	2	141	0.37	173	48
137	Q	5	0.2	3.93	2	676	0.2	5	1.78	0.2	53	25	21	102	6.96	1.66	11	21	2.83	903	1	0.24	22	0.09	2	91	0.48	238	74
138	R	210	0.2	4.46	2	188	0.2	8	2.55	0.2	55	56	20	98	6.41	1.07	9	13	1.36	527	1	0.10	6	0.12	2	142	0.29	161	37
139	S	150	0.2	2.77	16	65	0.2	5	2.09	0.2	49	47	55	78	6.52	0.41	9	16	2.19	825	1	0.13	25	0.08	2	83	0.33	165	55
140	T	70	0.2	2.52	3	49	0.2	5	2.06	0.2	56	64	63	27	6.24	0.57	12	11	1.39	530	1	0.12	24	0.09	2	83	0.26	149	36
141	U	40	0.2	1.70	4	88	0.2	5	1.30	0.2	41	39	52	29	4.91	0.52	9	12	1.05	369	2	0.08	16	0.07	2	47	0.28	118	28
142	V S	3600	15.6	2.30	4	59	0.2	13	4.46	0.5	70	705	38	14000	7.98	0.16	20	5	0.33	1019	4	0.02	25	0.05	5	168	0.01	54	39
143	391 – W	1500	2.4	2.34	22	31	0.7	5	4.12	0.4	77	16	150	5207	24.70	0.10	19	4	0.43	1159	7	0.06	59	0.22	20	125	0.12	190	75
145	unmarked	840	1.2	0.77	180	5	0.3	5	14.29	0.2	68	62	63	5311	16.87	0.03	4	5	0.09	4423	4	0.03	12	0.10	4	17	0.01	41	31

06/06 Vanc off

.T. o.	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 9307-023
						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	132	3.90	0.38	12	12	1.27	482	10	0.05	12	0.12	2	140	0.43	177	60
29	376 – A	80	1.2	3.97	17	1913	0.3	34	0.45	0.2	30	48	55	591	6.43	1.77	9	8	0.75	249	8	0.05	14	0.06	2	25	0.21	134	86
30	B s	50	0.4	5.49	11	2407	0.4	8	0.62	0.4	39	45	49	651	6.17	2.36	10	12	1.21	350	4	0.06	15	0.07	5	35	0.26	215	122
31	C	130	6.4	1.34	4	185	0.2	13	3.31	0.5	49	42	110	7552	4.21	0.23	14	11	0.98	485	238	0.07	29	0.07	2	59	0.14	119	39
32	D	10	0.2	3.66	2	129	0.2	6	0.86	0.4	23	9	83	141	3.93	0.14	11	21	3.03	1098	6	0.16	20	0.09	2	63	0.21	138	153
33	E	10	0.2	3.60	7	36	0.2	5	4.25	0.2	51	38	39	710	6.20	0.24	12	4	0.16	456	7	0.10	15	0.13	2	190	0.26	96	42
34	F	10	0.4	5.44	2	129	0.3	6	5.28	0.2	61	20	32	401	6.54	0.39	13	9	1.16	555	3	0.10	16	0.10	2	268	0.43	264	32
35	G	20	0.2	4.49	2	261	0.2	5	3.84	0.2	54	18	29	596	4.17	0.56	12	7	0.74	288	5	0.11	7	0.12	2	246	0.29	146	31
36	H	5500	26.0	0.62	7	32	0.2	13	1.20	0.8	24	18	216	14000	4.02	0.09	6	5	0.55	314	20	0.06	12	0.03	2	15	0.06	59	24
37	I	20	0.2	3.55	2	128	0.2	5	3.49	0.2	47	19	39	232	5.77	0.38	12	10	1.84	566	2	0.18	23	0.12	2	134	0.46	222	36
38	J	5	0.2	3.16	5	11	0.2	5	4.02	0.2	46	37	42	433	4.98	0.12	9	4	0.45	440	2	0.13	28	0.09	2	97	0.41	182	24
39	K	20	0.2	0.60	3	19	0.2	5	0.91	0.2	22	11	181	200	2.19	0.04	11	1	0.09	255	8	0.11	29	0.06	2	41	0.22	56	9
40	L	10	0.2	4.00	38	125	0.2	7	2.59	0.3	34	32	103	145	6.67	0.12	12	49	2.95	926	4	0.11	56	0.06	2	85	0.03	334	138
41	M	10	0.4	4.49	13	75	0.4	12	4.39	0.4	61	31	108	161	6.62	0.39	18	42	2.53	1083	3	0.33	48	0.07	2	66	0.11	264	86
42	N	60	0.2	1.77	23	869	0.5	7	3.67	0.3	54	19	107	40	4.67	0.78	12	17	1.27	847	5	0.11	22	0.05	2	97	0.19	160	67
43	O	190	0.4	5.73	2	1266	0.4	7	1.89	0.6	43	11	18	78	3.54	2.44	13	22	0.79	627	1	0.16	7	0.08	4	44	0.10	119	65
44	P	10	0.2	4.40	63	1407	1.7	10	6.02	0.2	70	24	67	47	4.68	1.76	13	11	2.37	1019	5	0.16	41	0.07	2	183	0.07	186	39
45	Q	100	0.2	2.33	2	202	0.2	5	0.12	0.2	17	10	45	103	5.33	0.47	9	12	0.98	223	2	0.13	4	0.07	2	8	0.08	43	74
46	R	5	0.2	4.59	5	88	0.2	11	2.55	0.2	48	27	109	64	6.14	0.15	13	15	2.29	1035	4	0.09	56	0.07	2	77	0.49	219	97
47	S	5	0.2	3.50	10	395	0.2	5	1.45	0.2	41	17	51	75	6.20	0.50	12	15	1.66	722	5	0.09	11	0.08	2	68	0.57	179	95
48	T	5	0.2	6.21	2	813	0.2	7	1.54	0.2	41	15	27	47	6.91	0.94	13	21	3.07	1286	4	0.08	12	0.09	2	52	0.57	201	118
51	U	5	0.2	5.45	11	24	0.5	5	3.30	0.2	49	23	32	58	6.11	0.05	14	18	2.70	1387	2	0.07	22	0.09	2	95	0.41	159	109
52	V	5	0.2	4.67	2	145	0.2	7	2.82	0.2	43	42	204	97	5.12	0.23	10	10	1.85	851	3	0.07	103	0.05	2	82	0.45	236	71
53	376 – W	5	0.2	4.73	2	884	0.3	8	4.15	0.2	55	22	25	88	5.35	1.77	14	18	1.86	1005	1	0.18	16	0.08	2	72	0.15	214	97
54	377 – A	40	0.2	2.46	45	1317	0.8	7	6.48	0.2	70	19	81	81	4.16	0.67	13	15	1.46	775	3	0.25	28	0.05	3	666	0.06	156	73
55	B	30	0.2	3.67	7	168	0.2	9	2.36	0.7	53	13	34	91	4.82	0.29	13	11	1.27	636	8	0.11	11	0.08	5	135	0.42	173	157
56	C	5	0.2	3.14	21	36	0.2	6	2.15	0.2	49	9	75	138	4.58	0.11	12	13	1.30	547	13	0.09	13	0.07	3	92	0.37	164	71
157	D	5	0.2	5.31	4	41	0.2	11	3.53	0.6	55	13	36	82	5.03	0.11	14	15	1.59	847	8	0.10	9	0.07	7	111	0.49	190	93
158	E	5	0.2	4.10	3	5	0.2	9	3.18	0.2	56	11	16	56	6.22	0.03	12	9	1.66	992	10	0.10	3	0.09	19	61	0.64	212	126
159	377 – F	5	0.2	4.22	2	78	0.2	12	2.17	0.3	44	17	24	57	5.89	0.20	13	15	2.00	897	4	0.09	7	0.08	2	86	0.35	130	152

NORANDA EXPLORATION COMPANY, LIMITED 0376

LAB ______ PROJECT NO. 148 PROPERTY KLIYUL N.T.S. 94D/8E

CERT. NO. ______ GRID REFERENCE KLIYUL-GRID Extn. East & West DATE July, 1993

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS	Au	+ Cu	CO-ORDINATES		SAMPLER
A	QTZ-PY veining, sugary in chloritic And	Talus					BL-2000N	6040E	Cray
B	Stockwork of Py in chloritic And host to A	"					"	"	Cray
C	Monzonite 10-15% 5° Py + Cpy, Mal	Float					2160N	6200E	"
D	coarse andesite flow wk bleached 3-5% Py	Talus					2950N	6000E	Joh
E	chloritic andesite, mass 5% Py, goss on weathd	grab					2900N	5825E	Cray
F	Augite phyric And wk ser, 3-4% Py	grab					2850N	5800E	Cray
G	Monzonite med gr, bleached groundmass chltized And sub outcrop			Py			2825N	5800E	Cray
H	Qtz-chl-~~Cpy~~ veining w cpy impregnation 1-3% + Py			grab			2415N	5800E	Cray
I	Aphanitic Andesite, chl wk epi on fracs tr Py			grab			2200N	5800E	Cray
J	And xl tuff chltic Py ± Po 1-3%			grab			5090E	1850N	Cray
K	goss andesite wkly bleached + silic			grab					?
L	horn felsic and/sed with streaks of Py tr cpy qtz-carb sweats			Talus			2200W	1000N	DORT
M	same as L w qtz-carb sweats/flooding & Py			grab			2200W	1120N	
N	qtz-carb-py veining in hornfelsic host	Talus					2200W	1100N	
O	And tuff?? strongly carb'zd oxidized Rx: oxid Py	Talus					2200W	1060N	
P	carbzed And, diss Py, tr Nickel carb	grab					2200W	755N	
Q	goss, bleached And, Carb. oxide py's tr Ser	grab					L-2200W	1010N	↓
R	med gr augite-fl phyric and, Chl 5-7% Py	grab					L-1400E	660S	DARB
S	ditto	grab					L-1400E	700S	
T	ditto	grab					L-1400E	675S	
U	same as T - chltic and, less sulphides	grab					L-1400E	600S	
V	ditto	grab					L-1700E	650S	↓
W	carbonatized andesite, Py	Talus					2200W	1010N	DORT.

NORANDA EXPLORATION COMPANY, LIMITED 0311

Yellow Field

B ______ PROJECT NO. 148 PROPERTY kliyul N.T.S. 94D/8E

RT. NO. ______ GRID REFERENCE kliyul grid E and W extensions DATE July 1993

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
					Au	Cu			
A	Silicified volc or (sed?), local qz veining, trace fg py	Talus					L800N	2175W	DorT
B	Silicified tuff, 5%-7% fg diss py, py in frac, rusty W.S.	Talus					L400E	2780N	"
C	Similar to "B" but this has 1-2cm wide unmin^z qz veins	Talus					L400E	2745N	"
D	Altered andesite (weakly calcareous), 3-5% fg diss py	Grab					L600E	2850N	"
E	Tuff, rusty W.S., 7% vfg diss py, locally py replaces mafics, weakly magnetic	Grab					L1410E	025N	Dav.b
F	Altered tuff, 3-5% py; py replacing mafics, rare cpy	Grab					L1400E	315S	Dav.b
G									
H									
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

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
0																													
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
0																													
1																													
2																													
3																													
4																													
5																													
6																													
7	388 – A	5	0.2	5.11	11	100	0.3	5	4.44	0.2	73	18	138	90	5.76	0.40	13	9	1.78	816	1	0.24	29	0.10	2	184	0.46	224	62
8	B	5	0.4	4.35	5	369	0.3	5	3.30	0.4	73	16	22	9	4.53	0.59	16	12	1.44	673	1	0.10	12	0.12	3	349	0.32	155	33
9	C	60 (Ck.?)	0.2	4.30	13	404	0.4	5	2.43	0.3	63	18	35	14	5.02	0.71	15	15	1.63	707	1	0.09	14	0.12	2	246	0.32	186	42
2	D	5	0.2	5.12	6	297	0.3	5	4.20	0.2	66	11	22	156	4.97	0.75	11	11	1.63	583	1	0.13	15	0.10	2	227	0.42	240	33
3	388 – E	5	0.2	3.41	6	609	0.3	5	2.00	0.2	59	11	21	15	5.16	1.10	14	11	1.67	821	1	0.11	10	0.13	2	64	0.38	219	50
4	387 – F	5	0.2	5.13	16	223	0.3	5	4.98	0.2	75	25	24	83	7.15	0.46	12	8	2.52	1203	2	0.35	16	0.10	2	185	0.99	298	62
5	G	5	0.2	5.35	7	677	0.3	5	4.32	0.3	72	21	26	84	5.62	0.35	12	11	2.31	820	1	0.23	24	0.11	2	193	0.51	243	51
6	387 – H	5	0.2	5.45	12	56	0.2	5	4.59	0.3	78	12	20	125	6.02	0.36	13	11	1.68	489	1	0.09	23	0.11	2	240	0.61	246	28

Norex (Vancouver)

ERT. NO.

NORANDA EXPLORATION C[illegible]MPANY, LIMITED 0388

White - Office
Y[illegible] - Field

PROJECT NO. 148 PROPERTY Kllyul

GRID REFERENCE

N.T.S. 94D8.

DATE

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER J. Nash
A	Qtz-feldspar-augite porphyry; lg. [illegible] plagioclase [illegible]; 2% py	Grab	<4m				56+00E	73+[illegible]N	CROY
B	Diorite; Magnetic; < 1% py	Grab	—				58+00E	24+00N	"
C	- Diorite - ~~[illegible]~~ & Porphyry; possible contact; tr. py.	Grab	—				58+00E	23+50N	"
D	- Diorite; with [illegible]; epidote in qtz veinlets; 2-5% dis. py.	Grab	—				58+00E	22+85N	" ✓
E	- Diorite; Very Magnetic; tr. py.	Grab	—				60+00E	26+00N	"
F									
G									
H									
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

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
193	726 – A rx	30	0.2	4.70	2	271	0.2	5	3.06	0.8	46	33	40	226	9.05	0.63	13	12	1.66	1251	9	0.34	8	0.09	27	88	0.47	147	244
194	B	5	0.2	3.19	4	39	0.2	5	2.64	0.7	48	25	46	40	7.56	0.15	14	11	2.56	793	3	0.22	31	0.09	32	89	0.32	211	287
195	C	5	0.2	3.91	4	173	0.2	5	4.78	0.2	53	19	68	152	5.70	0.17	15	6	1.09	636	19	0.16	24	0.08	12	197	0.32	171	104
196	D	90	0.4	7.62	2	16	0.4	5	8.30	0.2	54	72	34	181	9.20	0.06	12	13	1.57	819	177	0.16	46	0.07	20	503	0.28	425	74
197	E	5	0.2	6.03	2	205	0.3	5	4.51	0.2	47	29	22	106	7.15	0.55	12	17	2.40	824	6	0.44	11	0.07	12	226	0.50	257	75
198	F	20	0.2	3.80	5	30	0.3	5	4.72	0.2	50	7	33	73	5.91	0.11	14	7	1.16	789	19	0.17	8	0.08	14	241	0.32	284	72
201	G	5	0.2	3.25	8	143	0.4	5	3.96	0.5	59	16	82	35	4.14	0.20	25	9	0.71	519	10	0.10	22	0.06	9	174	0.28	352	45
202	H	5	0.2	4.50	4	206	0.2	5	3.95	0.2	43	17	30	58	6.45	0.50	11	11	1.90	785	2	0.16	12	0.07	11	183	0.28	165	79
203	I	5	0.2	4.26	2	1148	0.2	5	0.49	0.2	25	11	30	167	8.96	1.60	10	12	1.90	1022	2	0.06	7	0.08	8	21	0.29	169	99
204	J	5	0.2	4.78	2	17	0.6	5	6.43	0.2	54	15	49	60	4.69	0.05	13	8	0.79	749	4	0.09	19	0.06	9	220	0.25	155	48
205	K	5	0.2	4.27	2	134	0.2	5	3.63	0.2	45	12	57	39	7.05	0.21	10	17	2.11	1109	5	0.40	12	0.06	7	76	0.47	230	80
206	L	600	0.4	0.08	64	4	0.2	5	0.07	0.2	5	2	273	24	1.15	0.01	1	1	0.04	96	7	0.01	5	0.01	15	2	0.01	8	22
207	M	30	0.2	4.20	7	50	0.2	5	1.39	0.2	33	19	65	213	12.64	0.10	9	16	1.73	1566	4	0.05	11	0.05	10	37	0.18	104	101
208	N	160	0.4	0.24	23	8	0.2	5	0.08	0.2	9	63	212	80	13.24	0.04	4	1	0.12	133	6	0.01	17	0.02	10	1	0.02	32	24
209	O	30	1.2	3.59	321	48	0.2	5	2.52	0.2	53	30	44	1147	6.00	0.24	14	8	1.36	588	4	0.09	8	0.08	4	80	0.25	133	57
210	P	920	1.6	5.32	5	105	0.3	5	3.79	0.2	40	16	70	1315	8.41	0.23	9	12	2.13	1191	3	0.50	11	0.06	2	73	0.38	230	73
211	Q	4000	14.0	5.78	31	63	0.4	5	4.93	1.4	52	175	88	15000	13.05	0.20	16	15	3.53	1330	7	0.27	54	0.07	11	60	0.30	205	168
213	R	30	0.4	5.33	2	52	0.3	5	5.70	0.2	60	27	39	494	6.62	0.14	18	10	1.47	822	6	0.19	15	0.10	2	313	0.48	198	83
214	S	140	0.2	6.41	229	25	0.3	5	6.65	0.2	56	31	33	416	10.65	0.08	13	10	1.47	718	19	0.14	14	0.08	4	371	0.32	258	55
215	T	140	0.2	7.87	11	12	0.5	5	8.83	0.2	60	32	23	146	10.91	0.05	12	8	1.48	1546	2	0.09	29	0.10	5	758	0.26	225	89
216	U	10	0.4	4.80	5	36	0.3	5	6.44	0.2	56	16	42	40	6.00	0.09	14	4	0.58	667	11	0.11	14	0.10	2	385	0.31	279	33
217	V	20	0.2	2.85	4	41	0.2	5	2.49	0.2	42	54	94	230	9.34	0.14	11	9	1.85	760	8	0.23	23	0.06	5	85	0.22	163	51
218	726 – W	10	0.2	2.35	2	155	0.2	5	0.70	0.2	32	30	108	1031	7.73	0.36	12	10	1.09	392	7	0.09	4	0.05	2	75	0.14	45	30
219	727 – A	440	10.8	5.55	13	11	0.2	5	4.61	0.4	54	18	34	3462	8.46	0.07	15	10	2.11	1110	17	0.15	10	0.11	2	263	0.46	193	109
220	B	10	0.2	2.90	6	19	0.2	5	2.75	0.2	40	13	64	108	5.39	0.08	7	6	1.46	897	20	0.21	12	0.04	2	86	0.40	168	56
221	C	80	1.2	4.20	9	39	0.4	5	4.52	0.2	51	25	50	160	7.67	0.10	16	12	2.46	1144	6	0.29	18	0.07	4	149	0.44	196	70
222	D	140	0.2	5.99	2	70	0.3	5	8.75	0.2	48	32	20	57	6.61	0.28	9	7	0.85	1022	6	0.07	7	0.06	2	338	0.36	274	33
223	E	160	1.2	2.72	14	198	0.2	5	0.93	0.6	30	342	94	766	17.63	0.31	10	10	1.28	697	7	0.03	115	0.07	14	57	0.09	134	88
225	F	20	0.2	5.43	2	37	0.3	5	5.24	0.2	51	10	38	192	7.04	0.12	13	8	1.37	960	3	0.12	14	0.09	2	273	0.31	209	59
226	G	150	0.4	5.43	2	77	0.2	5	2.00	0.4	40	47	44	189	15.04	0.20	11	9	2.55	1498	4	0.16	12	0.07	7	96	0.34	129	94
227	727 – H rx	240	9.6	0.31	62	7	0.2	5	0.04	0.2	5	31	291	715	4.44	0.03	2	1	0.20	91	12	0.02	7	0.02	2	2	0.02	27	15

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
228	727 – I rx	20	0.4	3.46	9	106	0.2	5	4.02	0.2	46	12	84	66	5.96	0.23	16	4	1.13	880	11	0.16	23	0.08	2	192	0.29	271	57
229	J	110	0.8	5.76	4	17	0.3	5	5.92	0.2	56	34	56	230	8.07	0.09	14	9	1.10	1109	6	0.14	7	0.09	2	263	0.35	209	51
230	K	20	0.2	2.12	2	125	0.2	5	0.89	0.2	26	8	114	94	4.16	0.29	7	7	0.71	302	80	0.13	4	0.05	2	91	0.18	44	22
231	L	10	0.2	5.51	9	80	0.4	5	2.71	0.7	49	24	31	203	6.90	0.42	15	25	2.27	766	22	0.16	12	0.06	4	163	0.22	128	50
232	M	20	0.2	2.16	6	442	0.2	5	1.83	0.5	42	11	34	74	5.58	0.62	12	10	1.69	732	3	0.23	9	0.07	5	47	0.36	207	65
233	N	20	0.4	3.38	7	237	0.2	5	4.16	0.2	57	15	71	106	5.21	0.33	17	6	0.85	668	13	0.13	23	0.11	7	286	0.34	451	49
234	O	10	0.2	1.62	5	15	0.2	5	2.00	0.2	51	9	60	44	5.97	0.07	17	5	1.12	925	8	0.24	16	0.10	6	84	0.44	254	58
235	P	5	0.2	4.57	2	95	0.3	5	2.69	0.2	50	15	50	37	5.57	0.42	13	11	1.44	822	3	0.25	9	0.09	3	116	0.29	122	40
236	Q	5	0.4	3.31	2	225	0.2	5	1.02	0.2	39	11	95	29	5.72	0.71	10	9	1.07	547	18	0.20	8	0.08	2	49	0.11	59	24
237	R	20	0.2	4.07	3	54	0.2	5	3.59	0.2	49	13	38	175	7.16	0.17	12	10	2.02	1142	17	0.32	9	0.10	2	79	0.55	185	68
238	T	10	0.2	3.60	18	135	0.2	5	3.52	0.3	51	28	43	157	8.89	0.36	14	13	2.59	1201	2	0.29	30	0.08	8	44	0.43	170	98
239	U	220	0.8	4.87	6	20	0.3	5	6.14	0.2	56	21	37	214	7.66	0.10	11	7	1.60	1107	2	0.18	18	0.14	2	189	0.45	185	50
240	V	70	1.2	5.51	24	10	0.3	5	6.01	0.2	56	30	59	139	7.80	0.04	12	7	0.87	792	3	0.05	18	0.06	3	382	0.17	151	50
241	727 – W	40	0.4	2.27	67	14	0.3	5	1.04	0.4	36	47	64	85	8.83	0.02	13	12	1.76	683	12	0.10	14	0.05	8	48	0.38	103	66
242	728 – A	10	0.2	2.82	5	75	0.2	5	2.40	0.2	47	17	49	134	5.64	0.17	13	13	1.74	847	5	0.20	13	0.07	2	137	0.36	213	68
243	B	5	0.2	2.92	2	284	0.2	5	0.31	0.2	22	6	76	16	5.25	0.72	9	7	1.02	574	35	0.08	4	0.05	2	32	0.06	42	25
244	C	5	0.4	4.95	3	950	0.2	5	1.90	0.2	40	16	26	81	6.06	1.13	9	24	1.28	721	2	0.13	6	0.06	2	110	0.54	202	50
245	D	5	1.2	2.76	9	300	0.2	5	3.20	0.3	52	21	53	212	5.94	0.67	15	30	2.25	904	1	0.10	23	0.07	5	67	0.32	283	75
246	E	5	0.2	6.22	2	411	0.2	5	0.51	0.2	26	3	61	24	5.95	1.31	10	24	4.58	476	1	0.06	6	0.08	2	83	0.57	180	58
247	728 – F rx	5	0.2	8.21	2	95	0.5	5	9.99	0.2	59	14	33	22	4.94	0.15	12	10	1.20	1181	2	0.03	10	0.11	2	456	0.43	110	65

White - Office
Yellow - Field

NORANDA EXPLORATION COMPANY, LIMITED 0726

LAB Norex
CERT. NO.

PROJECT NO.
PROPERTY Kliyul (Darb Lake)
GRID REFERENCE Darb Lk Grid

N.T.S. 94D/9
DATE July 19/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Mass variten Feld porphyritic And -> DIOR 3-5% py.	o/c					8800E	13100N	TW
B	Fgm And + chl-qtz-carb veins in shear 5-10% py	o/c					8800E	12900N	TW
C	Rusty pyritic hfs bufos + calc-sil alt'n + Mon Dyke	o/c					8870E	12675N	TW
D	Pyrite rich (10-15%) - feld porph And.	Float					8750E	12500N	TW
E	Calc-sil hfs to wkly skarned and 5-10% py, po	o/c					8810E	12200N	TW
F	F.G. green (arg/mdst) TR-1% Py	o/c					9000E	13100N	RGW
G	" " " " " " (talus)	FLOAT					9000E	12925N	RGW
H	HORNFELSED Volc. Wacke to fg. ANDS 1-2% Py	o/c					8975E	12590N	RGW
I	calc-silicate alt. (skarned) arg/mdst TR-1% Py	o/c					8990E	12590N	RGW
J	" " " " " " " " "	o/c					9025E	12575N	RGW
K	Intrusive gabbro with 1% Py on fractures	FLOAT					9010E	11235N	RGW
L	Qtz vein ~ 1.5m thick, slightly rusty	o/c					8775E	10990N	RGW
M	FG. gabbro 1% py.	FLOAT					8800E	11520N	RGW
N	Diorite skarn zone 1.5m wide with 5cm py band	FLOAT					8775E	11765N	RGW
O	Diorite skarn 1x2m pod. minor malachite + py	o/c					8775E	11775N	RGW
P	DIOR - Qtz-py stock veined 5-10% py + MAG.	o/c					8545E	13190N	TW
Q	DIOR 6-10cm Qtz-chl-py-cpy-bor-mag vein	o/c					8525E	13195N	TW
R	Sulph rich bi-st -> calc-sil hfls, 10-15% py, po	Float					8390E	13650N	TW
S	pyritic calc-sil hfs ? argillites ± px skn vns py, po	o/c					8360E	13760N	TW
T	ditto	o/c					8350E	14210N	TW
U	ditto 10-15% py, po	o/c!					8860E	14600N	TW
V	chl-epid-qtz retrograde vein 15-20% py, po	Float					8500E	14380N	TW
W	ditto + px ~~[illegible]~~ skn	"					8550E	14300N	TW

NORANDA EXPLORATION COMPANY, LIMITED 0727

White - Office
Yellow - Field

LAB ______ PROJECT NO. ______ PROPERTY KIYUL (DARB LAKE) N.T.S. 94D/9

CERT. NO. ______ GRID REFERENCE DARB LK GRID DATE JULY 19

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		
A	Mixed sheared calc-sil hfs argl + Dior 5-10% py, po	O/C					8390E	12355N	T
B	Rusty calc-sil hfs - skarn argl + feldsp porph dyke	O/C					8910E	12830N	T
C	Endoskarned feld. porph dyke 10-15% py	Float					8900E	12590N	T
D	calc-silic hfs - px skarned limy argl 5-10% py	O/C					8920E	12440N	T
E	hfs argl + qtz-chl-py-po-mag stock vns	O/C					8950E	12270N	T
F	green pk calc-sil to px skarn + qtz-carb-mal, ep, sio	O/C					8920E	12140N	T
G	Stock of Qtz-mag-py vns in feldsp porph And.	O/C					8700E	11150N	TV
H	pyritic mn-contd py green argl. 5-10% py	Float					8400E	10450N	Th
I	hfsd pyritic argillite, dissem mn vns	O/C					8900E	13485N	TV
J	Diorite/Gabbro 1% Py minor Qtz-carb veinlets	FLOAT					8575E	13820N	RG
K	FG Diorite/Gabbro qtz + 1% Py	FLOAT					8610E	14215N	
L	Diorite, coarse grained 1% Py, Po	FLOAT					8590E	14290N	
M	Hornfelsed fg. arg, minor Py	O/C					8590E	14470N	"
N	" " " "	O/C					8620E	14440N	"
O	Hornfelsed sediment (arg?) with Py + Po + minor Qtz	O/C					8520E	14220N	"
P	" " " " " " "	O/C					8530E	14190N	"
Q	Diorite with qtz + magnetite, Yel-brn alt.	O/C					8510E	13990N	"
R	DIOR - qtz-epid-chl-py stock vns 5-10% py	O/C					8800E	13650N	TW
S	~ N/S ~								
T	Sheared DIOR → And + hfs seds, stock qtz py vns	O/C					8750E	13270N	TW
U	DIOR - mass py-chl-qtz vns	O/C					8925E	13775N	TW
V	ditto vns in sheared DIOR	O/C					8950E	13830N	TW
W	Qtz-py veins in calc-sil → px skarned seds	O/C					8940E	13[illegible]N	T[illegible]

White - Office
Yellow - Field

NORANDA EXPLORATION COMPANY, LIMITED 0728

LAB ______

CERT. NO. ______

PROJECT NO. ______ PROPERTY KLIUYL (DARB LAKE) N.T.S. 94D/9

GRID REFERENCE DARB LK GRID A [illegible] B; MAIN GRID E→ DATE July 14/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Mass py-[illegible] Dior dyke	O/c					9000E	1400N ✓	TW
B	py [illegible] Diorite	Float					8875E	1405N ✓	[illegible]
C	[illegible] volcaniclastic sed.	O/c					~1000W	1360N ✓	TW
D	qtz-[illegible] andesite [illegible]	O/c			MAIN		~1000W	1450N ✓	TW
E	Fs porphyry [illegible], rusty, py [illegible]	O/c			GRID		3000E	1175N	RGW ✓
F	Sandy lst, banded dk brn + red, [illegible] py	O/c					3000E	200N	RGW ✓
G									
H									
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

NORANDA DELTA LABORATORY
Geochemical Analysis

K11

Project Name & No.: KLIYUL – 148 **Geol.:** C.S. **Date received:** NOV. 01 **LAB CODE:** 9311–010
Material: 11 Rx **Sheet:** 1 of 1 **Date completed:** NOV. 10
Remarks: * Sample screened @ –35 MESH (0.5 mm)
¤ Organic, & 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. lo.	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	1678 – A	10	0.2	3.91	5	260	0.2	5	1.55	0.2	54	9	28	86	3.25	0.69	13	8	1.79	560	1	0.15	6	0.06	2	86	0.25	147	91
4	B	5	0.2	3.70	2	376	0.4	5	2.25	0.2	76	10	23	2587	4.42	0.48	19	9	0.99	787	1	0.10	6	0.15	2	399	0.26	107	93
5	C	20	0.2	3.76	8	18	0.5	20	5.60	1.3	64	34	36	2781	19.99	0.04	16	14	1.03	4006	1	0.03	24	0.10	2	91	0.10	89	179
7	D	40	0.2	3.53	14	18	0.4	14	8.96	2.8	59	7	24	716	13.68	0.03	9	6	0.59	2475	2	0.03	22	0.10	2	147	0.15	96	423
3	E	80	1.2	2.50	19	11	0.4	5	8.88	0.2	56	15	31	1573	15.51	0.04	8	7	0.57	3477	2	0.03	12	0.08	2	56	0.07	61	108
1	F	5	0.2	5.97	2	247	0.6	5	1.94	0.5	63	18	29	996	2.92	0.65	16	22	1.29	1049	1	0.42	11	0.09	2	200	0.03	113	55
2	G	5	0.2	5.11	2	230	0.2	5	4.07	0.2	71	8	40	41	3.26	0.49	10	6	0.29	324	1	0.10	6	0.08	2	643	0.22	92	37
3	H	5	0.2	5.97	2	47	0.3	5	5.71	0.2	84	10	20	28	4.84	0.13	12	10	1.13	999	1	0.08	5	0.14	2	190	0.38	136	69
4	1678 – I	5	0.2	0.62	4	1003	0.3	7	2.31	0.2	54	11	41	132	2.93	0.26	10	5	0.98	478	2	0.14	28	0.13	2	115	0.03	81	27
5	1679 – A	1740	5.6	0.49	2	90	0.2	5	0.11	0.2	11	2	196	299	2.53	0.19	3	2	0.07	59	354	0.06	3	0.03	2	15	0.04	15	11
6	1679 – B	30	0.2	7.99	2	950	0.4	5	0.10	0.2	20	1	8	29	2.64	2.05	5	12	0.27	98	5	0.73	3	0.05	10	110	0.06	119	46

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** C.S. **Date received:** NOV. 08 **LAB CODE:** 9311–019

Material: 22 Rx **Sheet:** 1 of 1 **Date completed:** NOV. 16

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. 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
	1679 – C	450	13.2	2.63	27	115	0.3	5	0.29	1.0	19	32	136	5572	4.65	1.02	4	8	0.35	272	9	0.09	13	0.05	2	5	0.02	61	68
	D	40	2.4	0.35	47	16	0.2	5	0.49	0.2	23	4	476	964	1.01	0.18	3	2	0.06	139	4	0.01	8	0.01	10	6	0.01	18	10
	E	20	2.8	4.57	4	23	0.4	5	.6.93	0.2	93	13	43	5102	4.99	0.09	9	11	0.97	922	11	0.17	16	0.08	2	510	0.34	189	50
	F	100	2.8	5.56	10	287	0.6	5	8.50	0.5	95	27	26	4895	6.66	0.72	10	30	1.94	1300	4	0.06	25	0.08	4	377	0.33	247	98
	G	150	8.4	3.11	11	14	0.7	5	7.41	0.2	93	14	43	14000	6.83	0.06	10	10	0.47	1997	18	0.09	15	0.10	2	227	0.22	251	62
0	H	450	2.8	2.03	14	7	0.6	5	2.62	0.5	64	204	40	3241	27.74	0.05	16	4	0.22	695	5	0.03	34	0.10	8	76	0.04	135	67
1	I s	280	2.8	3.29	11	14	0.5	5	5.00	0.2	71	121	52	2961	14.93	0.07	16	7	0.35	1228	1	0.05	21	0.06	2	136	0.02	83	51
3	J s	510	0.4	0.62	19	70	0.7	5	0.46	0.2	21	463	51	1178	33.45	0.12	12	2	0.33	370	17	0.03	185	0.08	9	9	0.02	120	56
5	K	5	0.2	0.19	24	15	0.6	5	1.19	0.4	40	16	33	52	36.88	0.07	14	3	0.07	508	7	0.02	52	0.11	20	5	0.01	201	59
7	L	680	3.2	7.19	3	14	0.4	5	11.51	0.2	88	17	6	4534	7.52	0.05	9	6	0.18	1465	35	0.04	11	0.14	2	345	0.27	144	48
8	M s	10600	8.8	1.68	54	4	0.4	5	15.27	0.2	68	149	56	8064	15.20	0.04	4	6	0.09	3693	77	0.04	33	0.14	2	62	0.02	74	72
0	N	1300	4.0	7.40	2	9	0.3	5	9.47	0.2	94	145	27	3542	8.10	0.05	16	7	0.81	1178	5	0.04	23	0.09	2	273	0.04	105	34
1	O	130	0.8	3.32	5	20	0.6	5	4.74	0.2	74	116	52	1625	26.28	0.08	19	7	0.22	929	24	0.04	33	0.11	2	134	0.09	157	57
3	P	1200	4.0	2.09	9	9	0.8	5	3.32	0.3	63	38	60	4609	31.77	0.05	16	3	0.18	899	44	0.04	30	0.12	11	113	0.10	174	100
5	Q	1730	6.4	0.20	22	11	0.9	5	6.58	0.2	74	21	45	13000	30.07	0.04	12	4	0.15	894	9	0.03	47	0.09	3	23	0.01	177	78
7	R	170	1.2	3.31	11	2672	0.5	5	8.99	0.2	89	22	115	742	5.00	1.66	9	8	1.85	2040	4	0.05	31	0.08	2	208	0.05	137	93
8	S	850	1.2	1.21	23	41	0.7	5	1.59	0.3	167	424	55	1397	34.33	0.08	108	3	0.16	469	15	0.03	45	0.10	22	50	0.04	130	56
0	T ¤	570	5.2	1.31	9	4	0.7	5	3.05	0.2	57	1093	61	7104	17.29	0.04	10	4	0.21	678	171	0.03	36	0.06	2	51	0.01	85	84
1	U	4100	8.0	1.95	17	19	1.1	5	3.09	0.2	74	60	36	8304	30.66	0.05	29	5	0.15	708	36	0.03	43	0.13	10	89	0.13	211	86
3	V	870	9.2	4.34	6	22	0.4	5	12.34	0.2	67	61	29	8216	12.51	0.04	7	5	0.18	1834	38	0.04	11	0.11	2	181	0.18	172	73
5	1679 – W	880	1.2	0.29	26	20	0.6	5	0.85	1.9	34	29	33	13000	35.55	0.04	16	2	0.14	1052	33	0.02	58	0.11	25	7	0.01	181	78
7	1680 – A	20	0.8	1.05	17	21	0.5	5	4.44	0.2	59	24	60	1646	28.02	0.09	13	4	0.16	765	4	0.03	30	0.10	5	51	0.05	94	52

17/11

1678

NORANDA EXPLORATION COMPANY, LIMITED

White - Office / - Field

LAB Norex

CERT. NO.

PROJECT NO. 148 PROPERTY Kliyul

GRID REFERENCE W. Grid Extension

N.T.S.

DATE Oct 24/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS 30 element ICP + Au			CO-ORDINATES		SAMPLER
A	Sil. maf volcanic, 2-3% Py, weak seg.ey texture	Composite grabs					± 10+00E,	24+00 N	C. Schulze
B	Porphyritic maf. flow, wk sheared, mod azurite	↓					8+90 E,	24+50 N	✓
C	(Magnetite-bearing skarn, wk. sil, tr Cpy.	↓					8+60 E,	25+60 N	✓
D	mod. mal, wk azurite, up to 10% Mag; +2-3%	↓					"	"	✓
E	Qz stringers forming mod. stockwork	↓					"	"	✓
F	(talus) Weak sil. por. flow; wk arg alt, loc. mal (skarn?)	↓					8+40E	25+50 N	✓
G	Sil. volc (basalt?) - poss skarn, 2-3% Py + Po	Grab					37+0 E	9+45 N	✓
H	Sil. volc., total skarn, mod. dev Qz stwork, 2-3% Po + Py	↓					3485 E	5+72 N	✓
I	Sil. weak exoskarn in lap. tuff, 5% Qz-hem stwork	↓	carb alt				3200 E	12+25 N	✓
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

[redacted]

AB N/OREX

ERT. NO.

NORANDA EXPLORATION MPANY, LIMITED 1679

White - Office
- Field

PROJECT NO. 148 **PROPERTY** ISLI YUL **N.T.S.**

GRID REFERENCE MAIN GRID / Moraine Grid **DATE** Oct 29/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS 30 elem	I.C.P.	+ Au	CO-ORDINATES		SAMPLER
A	Prox. float: Q.Vein + sil. volc - grey-white, 5% G. tr Cpy (mal)	Grab	–				L21+00E	23+00N	C. Schulze
B	sil. volc (tuff?) - strong sil; strong lim, mod ser.	"	–				L21+00E	24+35N	✓
C	Talus: Q.V, fract, 1-2% Cpy, tr Py, mod. malachite	"					L35+00E	14+88N	✓
D	Prox talus: Q.V, weak foliated, Cpy, tr Py al. foliation	"					L34+50E	15+20N	
E	Sil. lapilli tuff, Qz stringers, 1-2% Cpy, mod mal.	"					L34+00E	15+40N	✓
F	Weak skarn dev. in maf volc: Q. stringers + veins + Cpy	"					L34+10E	15+35N	✓
G	Mafic Volcanic exoskarn, some epid, gar. dev, 2+% Py	Grab					L34+00E	15+40N	
H	Mag bearing skarn: 50% Mag, 10-15% Py, 1-2% Cpy, mal.	Grab	PACIFIC SUGAR + SKARN			MORAINE	L 9935E	10000N	✓
I	Mag bearing skarn ~ 20% Py/Po, disseminated	"				GRID	10000E	9935N	✓
J	Magnetite skarn (50% mag), tr Cpy, 7-8% mag	Comp. Grab					10000E	10100N	✓
K	Almost pure magnetite, tr Py, Cpy	Grab					10000E	10031N	✓
L	Mag. bearing skarn, 3% diss. + frac rel Cpy, 5% mag	"					10000E	10060N	✓
M	Similar to L (diff. boulder), 4-5% mag, 3% Cpy						"	"	
N	Skarn, 1-2% Magnetite, 1-2% Cpy, 7-8% Py	Comp Grab					10008E	10095N	✓
O	Skarn, 10-15% Mag al. fract + interstitial, 2% Cpy	Comp Grab					10012E	10100N	
P	Magnetite bear. skarn (20% Mag) 4% Cpy al. sil	Grab					9830E	9860N	
Q	Skarn, 25% Mag, 5% Cpy al. silica stringers	"					9870E	9925N	
R	Skarn - carbonate + Qz str comprise 30%, ~1% Cpy, tr Py	"					10095E	10200N	✓
S	Skarn, 85% Mag; 7-8% Py, locally 2-3% Cpy	Comp Grab					10048E	10200N	✓
T	Skarn, 60% Mag, 15% Py, 5% Cpy assoc. Qz	Grab					9820E	9800N	✓
U	Skarn, 50-60% Mag, 1-2% Cpy, strong Az + Mal.	"					9865E	10030N	✓
V	Skarn, green, 2-3% Mag, 2% Cpy + strong mal/az pres.	Comp. Grab					10125E	10090N	✓
W	Skarn, >60% Mag, 1-2% Cpy, strong az/malachite	Grab					"	"	

[redacted]

NORANDA EXPLORATION C MPANY, LIMITED 1680

White - Office
Y - Field

...orex

PROJECT NO. 148 PROPERTY Sliyul N.T.S. ____

...NO. ____ GRID REFERENCE Moraine Grid DATE Nov 4/93

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
				30 ele	m. ICP	+ Au			
A	Skarn: Qz stringers + 15% Mag, 3-4% Cpy, 2-3% Py ('Pacific Sugar' Skarn)	Grab	–				10060E	10130N	C. Schulze
B									
C									
D									
E									
F									
G									
H									
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

APPENDIX IV

PIT ROCK/SOIL DESCRIPTIONS/ASSAY SHEETS

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

B = SOILS
C = ROCKS & CHIPS

PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 001	2600	1750	B		2.5	
KLP 001	2600	1750	C		4.0	Feldspar phyric andesite/diorite. Pyrite on fractures.
KLP 002	2600	1800	B		1.0	
KLP 002	2600	1800	B		2.5	
KLP 002	2600	1800	C		3.5	Gravels of feldspar phyric andesite composition.
KLP 003	2600	1850	B		2.0	
KLP 003	2600	1850	B		3.0	
KLP 003	2600	1850	B		4.0	
KLP 003	2600	1850	C		4.0	
KLP 004	2600	1900	B		2.0	
KLP 004	2600	1900	B		4.0	
KLP 005	2600	1950	B		1.5	
KLP 005	2600	1950	B		3.5	
KLP 006	2600	2000	B		1.0	
KLP 006	2600	2000	C		2.5	Bleached andesite. Clay, sericite alteration. Trace pyrite.
KLP 007	2600	2040	B		1.5	
KLP 007	2600	2040	C		2.5	Silicified, sericitic, pyritic, bleached andesite with disseminations and blebs of 5-10% pyrite.
KLP 008	2600	2100	B		2.0	
KLP 008	2600	2100	B		5.0	
KLP 009	2600	2150	B		2.0	
KLP 009	2600	2150	B		4.25	
KLP 010	2600	2200	B		1.0	
KLP 010	2600	2200	B		5.0	
KLP 010	2600	2200	C		5.0	Pyritic, feldspar phyric andesite with epidote-quartz-pyrite. Disseminated pyrite.
KLP 011	2800	2200	B		1.5	
KLP 011	2800	2200	B		5.0	
KLP 012	2800	2150	B		1.5	
KLP 012	2800	2150	B		3.5	
KLP 013	2800	2100	B		2.0	
KLP 013	2800	2100	B		3.0	
KLP 014	2800	2045	C		1.5	Sericite, clay altered, bleached andesite. Weakly magnetic.
KLP 015	2800	2000	C		4.5	Mineralized andesite/fine grained diorite. Stockwork of rusty fractures. Magnetic.
KLP 016	2800	1950	B		2.0	
KLP 016	2800	1950	C		3.3	Dark, hematitic andesite. Weakly silicified. Epidote-quartz veinlets. Trace cpy.
KLP 017	2800	1900	B		2.0	
KLP 017	2800	1900	B		3.3	
KLP 018	2800	1860	B		2.0	
KLP 018	2800	1860	B		4.7	
KLP 019	2800	1770	B		2.0	
KLP 019	2800	1770	B		3.5	
KLP 020	2800	1740	B		2.0	
KLP 020	2800	1740	B		4.5	
KLP 020	2800	1740	C		5.3	Ferrocrete/gossanous, clay altered, magnetic bleached rock.
KLP 021	2800	1700	B		2.0	
KLP 021	2800	1700	B		4.5	
KLP 021	2800	1700	C		5.5	Weakly carbonatized andesitic tuff.
KLP 022	2800	1650	B		2.0	
KLP 022	2800	1650	B		5.2	
KLP 023	3000	1700	B		2.0	
KLP 023	3000	1700	B		5.5	
KLP 023	3000	1700	C		5.7	Epidotized & silcified angular boulders? Minor malachite on fractures.
KLP 024	3000	1750	C		1.5	Clay, sericite altered felsic intrusive and andesite (bleached).
KLP 024	3000	1750	C		1.8	Very clay-rich (altered), malachite stained rocks.
KLP 025	3000	1800	C		2.0	Highly fractured, clay altered, soft rock.

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 025	3000	1800	C		2.5	Clay altered andesite/intrusive. 1% malachite.
KLP 025	3000	1800	C		3.0	Loose rock at bottom of trench. Hematitic & clay altered. Trace malachite.
KLP 026	3000	1850	B		2.0	
KLP 026	3000	1850	C		5.0	Light green, clay fault gouge. Trace pyrite.
KLP 027	3000	1900	B		2.0	
KLP 027	3000	1900	B		3.0	
KLP 028	3000	1950	B		2.0	
KLP 028	3000	1950	B		5.5	
KLP 028	3000	1950	C		5.6	Weakly carbonatized, chloritic andesite. Trace pyrite.
KLP 029	3000	2000	B		2.0	
KLP 029	3000	2000	B		6.0	
KLP 030	3000	2030	B		3.0	
KLP 030	3000	2030	C		4.5	Ferrocrete and intensely bleached, argillically altered andesite.
KLP 031	3000	2070	C		1.5	Quartz vein (090/40S) & quartz stockwork in sericite-pyrite schist.
KLP 031	3000	2070	C		2.0	Sericite-pyrite schist (090/50N). Gossanous & clay rich.
KLP 032	3000	2100	B		2.0	
KLP 032	3000	2100	B		3.8	
KLP 032	3000	2100	C		4.0	Feldspar phyric andesite. Epidote on fractures. Trace pyrite.
KLP 033	3000	2150	B		2.0	
KLP 033	3000	2150	B		3.5	
KLP 033	3000	2150	C		3.7	Pyritic andesite. Angular talus blocks.
KLP 034	3000	2200	B		2.0	
KLP 034	3000	2200	B		5.2	
KLP 035	3200	2200	B		2.0	
KLP 035	3200	2200	C		2.8	Bleached, sericite, clay, gossaned andesite. Talus?
KLP 036	3200	2150	B		2.0	
KLP 036	3200	2150	C		3.2	Chert/quartzite. Trace pyrite.
KLP 037	3200	2100	C		1.5	Sheared, bleached, sericite-clay altered rock. Remnant pyrite crystals.
KLP 038	3200	2065	C		1.5	Gossanous, chloritic, pyritic andesite.
KLP 039	3200	2000	B		2.0	
KLP 039	3200	2000	B		3.0	
KLP 040	3200	1950	B		2.0	
KLP 040	3200	1950	B		3.4	
KLP 040	3200	1950	C		2.0	Greenish-grey andesite crystal tuff. Subcrop.
KLP 041	3200	1900	B		2.0	
KLP 041	3200	1900	B		5.3	
KLP 041	3200	1900	C		5.5	Weakly silicified andesite. Trace pyrite. Bedrock/talus?
KLP 042	3200	1840	B		2.0	
KLP 042	3200	1840	B		4.5	
KLP 042	3200	1840	C		5.5	
KLP 043	3200	1800	B		2.0	
KLP 043	3200	1800	C		3.0	Manganese stained microdiorite dyke/sill. Quartz stockwork & sweats. Tr malachite, cpy on fracs.
KLP 044	3200	1760	B		2.0	
KLP 044	3200	1760	B		6.0	
KLP 044	3200	1760	C		6.0	Boulders of manganese stained, weakly magnetic dyke rock.
KLP 045	3200	1720	B		1.0	
KLP 045	3200	1720	C		1.0	Boulders of sericite/pyrite schist. Bedded & disseminated pyrite.
KLP 046	3200	1660	B		2.0	
KLP 046	3200	1660	B		5.0	
KLP 046	3200	1660	C		6.5	Angular blocks of sericite, chlorite, pyrite schist. Hematite coated. Trace malachite.
KLP 047	3400	1970	B		1.0	
KLP 047	3400	1970	C		-	
KLP 048	3400	2050	B		2.0	
KLP 049	3300	2055	C		2.0	Pyritic, bleached, well fractured andesite. 5-7% pyrite.
KLP 050	3300	2070	C		1.5	Chloritic andesite. Weathered feldspars. Fine grained magnetite & trace pyrite.

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 051	3390	2095	B		2.0	
KLP 051	3390	2095	B		3.0	
KLP 051	3390	2095	C		3.3	Bleached, weathered, clay, sericite, pyrite altered andesite.
KLP 052	3400	2150	B		2.0	
KLP 052	3400	2150	B		4.0	
KLP 052	3400	2150	C		4.2	Ferrocrete; weathered andesite (magnetic).
KLP 053	3400	2200	B		2.0	
KLP 053	3400	2200	B		3.0	
KLP 054	3400	2250	B		2.0	
KLP 054	3400	2250	B		3.6	
KLP 054	3400	2250	C		3.8	Foliated, chloritic andesite. Rare quartz-carbonate veinlets & pyrite.
KLP 055	3600	2250	B		2.0	
KLP 055	3600	2250	B		4.0	
KLP 055	3600	2250	C		4.6	Massive pyritic, chloritic andesite. Minor epidote on fractures. Weakly silicified. 5-10% py.
KLP 056	3580	2180	B		2.0	
KLP 056	3580	2180	B		3.5	
KLP 057	3610	2140	C		1.8	Massive pyritic, chloritic andesite with epidote +/- pyrite on fractures.
KLP 058	3575	2100	B		1.0	
KLP 058	3575	2100	B		1.5	
KLP 058	3575	2100	C		2.5	Fault gouge. Epidote, carbonate & pyrite.
KLP 059	3600	2050	B		2.0	
KLP 060	3600	2000	B		2.0	
KLP 060	3600	2000	C		3.0	
KLP 061	3800	2000	C		0.3	Massive, fractured, blocky andesite with epidote veinlets & veined/disseminated pyrite.
KLP 062	3800	2050	C		0.3	As above. 1-2% pyrite.
KLP 063	3800	2100	C		1.0	Highly fractured, bleached, rusty andesite.
KLP 064	3800	2150	B		2.0	
KLP 064	3800	2150	C		3.0	Andesite with blebs & disseminations of pyrite & arsenopyrite?
KLP 065	3800	2260	B		2.0	
KLP 065	3800	2260	C		3.0	
KLP 066	3785	2300	B		1.5	
KLP 066	3785	2300	C		1.8	Strongly epidotized (blebs & veinlets) andesite. Hornfelsed & weak carbonate alteration.
KLP 067	4000	2395	B		2.5	
KLP 068	4200	2440	C		0.5	Same as KLP-66-1.8. Trace pyrite.
KLP 069	4200	2300	B		2.0	
KLP 069	4200	2300	C		2.5	Massive, dark green andesite with epidote filled fractures.
KLP 070	4200	2245	B		2.0	
KLP 070	4200	2245	B		3.5	
KLP 070	4200	2245	C		3.6	Dark green, massive andesite.
KLP 071	4200	2200	B		2.0	
KLP 071	4200	2200	B		3.5	
KLP 072	4200	2100	B		1.5	
KLP 072	4200	2100	B		2.5	
KLP 072	4200	2100	C		2.8	Quartz vein material in hornfelsed andesite with cpy on fractures.
KLP 073	4000	2000	B		2.0	
KLP 073	4000	2000	C		2.6	Chloritized, epidotized blocky andesite subcrop. Trace -2% pyrite.
KLP 074	4000	2050	B		2.0	
KLP 074	4000	2050	B		4.5	
KLP 074	4000	2050	C		4.6	Massive dioritic sill/dyke. Hornfelsed & epidote altered feldspars.
KLP 075	4000	2110	B		2.0	
KLP 075	4000	2110	C		3.0	Chloritic, well fractured andesite, weakly carbonatized with cubic pyrite.
KLP 076	4000	2150	C		0.7	Massive, hematite stained quartz vein with trace py, cpy in carbonatized andesite.
KLP 076	4000	2150	C		0.7	Pyritic, silicified, calcareous, epidotized, fractured andesite. Trace - 3% pyrite.
KLP 077	4000	2200	B		2.0	
KLP 077	4000	2200	C		2.8	Subcrop of silicified, epidotized andesite with trace pyrite.

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 078	3900	2200	B		2.0	
KLP 078	3900	2200	C		4.2	Subcrop of carbonatized andesitic blocks with silica rich fractures. 2-3% pyrite.
KLP 079 (381-O)	3900	2140	C	0.5		Clay rich fault gouge (green-grey) plus unaltered andesite.
KLP 079 (381-P)	3900	2140	C	0.75		Gossaned, clay altered, well fractured volcanic adjacent to bull quartz vein.
KLP 079 (381-Q)	3900	2140	C	1.0		Highly crushed quartz vein material. Weak manganese, hematite staining.
KLP 079 (381-R)	3900	2140	C	1.0		Same as KLP-79 (381-P).
KLP 079 (381-S)	3900	2140	C	1.5		Well fractured, green-grey fault gouge.
KLP 079 (381-T)	3900	2140	C	2.0		Gossanous andesite. Trace epidote.
KLP 080	3900	2100	C		0.6	Dark green, chloritic andesite with rusty fractures.
KLP 081	3900	2050	B		2.0	
KLP 081	3900	2050	C		4.0	Angular boulders of chloritic andesite. Trace pyrite & epidote on fractures.
KLP 082	3900	2000	B		2.0	
KLP 082	3900	2000	C		3.6	Massive, dark green, hornfelsed andesite. Epidote & 1-2% pyrite on fractures.
KLP 083 (381-U)	3900	1970	C	0.6		Fine grained, dark green, chloritic andesite. Well fractured.
KLP 083 (381-V)	3900	1970	C	1.4		Manganese - iron stained fault gouge with quartz-carbonate stringers.
KLP 083 (381-W)	3900	1970	C	1.2		Hematite stained massive quartz vein. Trace pyrite.
KLP 083 (382-A)	3900	1970	C	1.4		Highly fractured, chloritic andesite. Trace - 2% pyrite.
KLP 083 (382-B)	3900	1970	C	1.2		Intensely fractured, chloritic, manganese stained andesite.
KLP 083 (382-C)	3900	1970	C	1.0		Intensely fractured, chloritic andesite.
KLP 083 (382-D)	3900	1970	C	1.0		Massive quartz-carbonate vein. Hematite, manganese, pyrite.
KLP 083 (382-E)	3900	1970	C	1.6		Manganese stained, dark green, chloritic andesite. Moderate - well fractured.
KLP 084 (381-F)	4000	1950	C	0.5		Highly fractured andesite, manganese stained. Fault gouge present.
KLP 084 (381-G)	4000	1950	C	1.0		Highly fractured andesite. Bleached, gossanous, minor quartz.
KLP 084 (381-H)	4000	1950	C	1.0		Hematite, manganese stained massive quartz vein. Trace sulfides.
KLP 084 (381-I)	4000	1950	C	1.0		Hematite, manganese stained massive bull quartz vein material.
KLP 084 (381-J)	4000	1950	C	1.0		Siliceous, pyritic, foliated andesite. Disseminated & veined pyrite (parallel to foliation).
KLP 084 (381-K)	4000	1950	C	1.0		Manganese, clay rich fault gouge with minor quartz vein material.
KLP 084 (381-L)	4000	1950	C	0.7		Manganese stained, fractured (clay coated) andesite.
KLP 084 (381-M)	4000	1950	C	0.5		Chloritic andesite. Minor quartz healed breccia. Manganese stained.
KLP 085	3700	2000	B		2.0	
KLP 086	3700	1900	B		1.0	
KLP 086	3700	1900	C		1.5	Bleached pyrite andesite/altered intrusive.
KLP 087	3700	1800	B		2.0	
KLP 087	3700	1800	B		3.5	
KLP 088	3700	1700	B		2.0	
KLP 088	3700	1700	C		1.8	Bleached, gossaned, altered intrusive/monzonite. 2-3% pyrite.
KLP 089	3700	1600	C		2.0	Bleached, gossaned, altered intrusive/monzonite. 2-3% pyrite.
KLP 090	3700	1550	B		2.5	
KLP 090	3700	1550	C		4.1	Sericite, clay, altered monzonite. Gossanous.
KLP 091	3700	1500	C		-	Sericite, clay, altered monzonite. Gossanous.
KLP 092	3500	1600	C		1.5	Pyritic, gossaned altered monzonite. Moderate-well fractured.
KLP 093	3500	1650	B		2.0	
KLP 093	3500	1650	C		3.0	Altered monzonite with trace pyrite. Epidote/pyrite seams observed.
KLP 094	3500	1700	C		1.5	Gossanous monzonite with sericite/hematite stained fractures.
KLP 095	3500	1750	C		3.2	Chloritic feldspar porphyry dyke. Chlorite, sericite on fractures. Trace malachite.
KLP 096	3500	1800	B		2.0	
KLP 096	3500	1800	C		2.5	Fractured intrusive (monzonite)/andesite. Clay, sericite on fractures. Trace py +/- cpy.
KLP 097	3500	1850	B		2.0	
KLP 097	3500	1850	C		2.5	Same as KLP-95-3.2.
KLP 098	3500	1900	B		2.0	
KLP 099	3525	1950	C		3.0	Fine grained, locally silicified andesite rubble. Locally pyritic to 3%. Epidote noted.
KLP 100	3500	2000	B		2.0	
KLP 101	3500	2120	C		2.0	Chloritic, epidotized dark green andesite. Trace magnetite.
KLP 102	3500	2150	B		2.0	
KLP 102	3500	2150	B		3.5	

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 103	3500	2200	B		2.0	
KLP 103	3500	2200	B		3.0	
KLP 104	3500	2250	B		2.5	
KLP 105	3500	2300	B		2.5	
KLP 105	3500	2300	C		3.0	Angular rubble of dark green, massive andesite with epidote, chlorite & quartz-carbonate sweats.
KLP 106	3700	2300	C		1.5	Dark green, hornfelsed andesite. Strong epidotization of feldspar phenocrysts.
KLP 107	3700	2250	B		1.5	
KLP 107	3700	2250	C		1.5	Chloritic andesite with epidote-carbonate on fractures. Trace - 2% pyrite locally.
KLP 108	3700	2200	B		2.0	
KLP 108	3700	2200	C		2.5	Angular boulders of epidotized andesite.
KLP 109	3700	2150	B		1.5	
KLP 110	3650	2080	C		2.0	Angular boulders? of epidotized andesite. Weakly bleached.
KLP 111	3300	2250	B		3.0	
KLP 111	3300	2250	C		6.0	Highly altered pyritic andesite/intrusive?
KLP 112	3300	2200	C		1.5	Mineralized, dark green andesite with abundant magnetite, trace py, malachite.
KLP 113	3300	2150	B		2.0	
KLP 113	3300	2150	C		2.5	Chloritic andesite with magnetite-epidote skarning. Trace malachite.
KLP 114	3300	2100	B		2.0	
KLP 115	3300	1950	B		3.5	
KLP 115	3300	1950	C		0.3	Clay, sericite altered monzonite. Well fractured. 5-7% pyrite locally.
KLP 116	3300	1900	C		1.5	Strong clay altered, grey, bleached monzonite.
KLP 117	3300	1850	B		2.0	
KLP 117	3300	1850	B		4.0	
KLP 118	3300	1800	C		2.0	Hematite steined massive quartz material. Trace pyrite.
KLP 118	3300	1800	C		5.5	Chloritic diorite/monzonite with epidote on fractures, trace pyrite, weakly magnetic.
KLP 119	3300	1750	B		1.5	
KLP 119	3300	1750	C		5.6	Weakly silicified, epidotized monzonite with fine grained pyrite and minor manganese.
KLP 120	3300	1700	C		5.0	Weakly silicified, epidotized monzonite with fine grained pyrite and minor manganese.
KLP 121	3100	1700	B		2.0	
KLP 121	3100	1700	B		6.0	
KLP 121	3100	1700	C		5.0	Quartz-carbonate-pyrite stockwork in altered monzonite/andesite.
KLP 122	3100	1750	B		2.0	
KLP 122	3100	1750	C		5.0	Epidote-pyrite stockwork in altered intrusive/chloritic andesite.
KLP 122	3100	1750	C		6.5	Chloritic, propylitized, massive monzonite/diorite.
KLP 123	3100	1800	B		2.0	
KLP 123	3100	1800	B		3.0	
KLP 123	3100	1800	C		5.0	Malachite stained, moderate epidotization of monzonite/diorite.
KLP 124	3100	1850	B		2.5	
KLP 124	3100	1850	B		5.5	
KLP 124	3100	1850	C		5.6	Malachite, azurite (trace) on mineralized andesite/altered monzonite gravels.
KLP 125	3100	1900	B		2.0	
KLP 125	3100	1900	B		3.0	
KLP 126	3085	1950	B		2.0	
KLP 126	3085	1950	B		3.0	
KLP 127	3100	2010	C		1.5	Bleached andesite/monzonite with chlorite, epidote, magnetite.
KLP 128	3100	2080	C		0.3	Bleached, pyritic andesite. Sericitic, gossanous 3-5% py.
KLP 129	3100	2120	B		2.0	
KLP 130	3100	2170	B		2.0	
KLP 130	3100	2170	B		3.8	
KLP 131	3100	2215	B		2.5	
KLP 132	3100	2250	B		4.0	
KLP 132	3100	2250	B		?	
KLP 133	3135	2215	C		3.0	Same as KLP-128. Clay altered.
KLP 134	3200	2215	C		3.0	Same as KLP-128. Clay altered. 5-7% pyrite.
KLP 135	3100	2300	B		5.0	

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 136	3000	2250	B		2.0	
KLP 137	2900	2250	B		2.5	
KLP 138	2900	2150	B		2.5	
KLP 139	2900	2100	B		3.0	
KLP 140 (382-M)	2890	2050	C	1.0		Altered andesite/diorite/monzonite with magnetite, epidote, chlorite.
KLP 140 (382-N)	2890	2050	C	1.0		Bleached, gossanous fracture zone with magnetite, epidote, sericite.
KLP 140 (382-O)	2890	2050	C	1.0		Altered andesite/diorite with magnetite, epidote, chlorite.
KLP 140 (382-P)	2890	2050	C	1.0		Gossanous fracture zone with epidote, chlorite.
KLP 140 (382-Q)	2890	2050	C	1.0		Altered andesite/diorite. Magnetite-epidote-chlorite.
KLP 141 (382-R)	2900	2010	C	1.0		Fault gouge. Magnetite, epidote, chlorite.
KLP 141 (382-S)	2900	2010	C	1.0		Chlorite, clay, epidote, magnetite altered zone.
KLP 141 (382-T)	2900	2010	C	1.0		Gossan with malachite, chlorite, manganese.
KLP 141 (382-U)	2900	2010	C	1.0		Fault brecciated carbonatized sediments/fine grained, chloritic andesites.
KLP 142	2900	1950	B		2.5	
KLP 142	2900	1950	C		5.5	Epidote, magnetite, hematite altered volcanic/intrusive.
KLP 143	2900	1900	B		4.5	
KLP 143	2900	1900	C		4.6	Angular gravel of magnetite, chlorite altered material.
KLP 144	2900	1850	C		2.0	Highly fractured zone of hematite, chlorite, malachite, magnetite mineralization.
KLP 145	2900	1800	C		2.5	Altered monzonite. Bleached, sericite, clay, magnetite.
KLP 146	2900	1780	C		4.7	Mineralized magnetite, sericite, clay altered gravels.
KLP 147	2900	1700	C		4.0	Fault zone. Manganese stained diorite. Malachite on fractures.
KLP 147	2900	1700	C		5.7	Chloritic diorite/gabbro? Fresh (no mineralization).
KLP 148	2900	1650	B		5.0	
KLP 149	2700	1750	B		3.0	
KLP 149	2700	1750	C		6.0	Propylitized andesite boulders with chalcopyrite & magnetite.
KLP 149	2700	1750	C		6.5	Mafic dyke rock. Weakly magnetic, strongly epidotized on fractures.
KLP 150	2700	1800	B		2.0	
KLP 150	2700	1800	B		4.0	
KLP 150	2700	1800	C		4.5	Angular, mineralized gravels. Chlorite, magnetite, epidote.
KLP 151	2700	1860	B		3.5	
KLP 152	2700	1940	B		2.4	
KLP 152	2700	1940	C		2.5	Chloritized andesite/diorite with pyrite, epidote, trace malachite, chalcopyrite.
KLP 153	2700	1965	B		2.0	
KLP 153	2700	1965	B		3.5	
KLP 153	2700	1965	C		3.4	Massive hornfelsed andesite. 25% manganese, locally 2-3% cpy.
KLP 154	2700	2010	C		1.0	Propylitized, fractured andesite with minor manganese, epidote.
KLP 155	2700	2050	C		0.3	Argillic, sericitic, chloritic, manganese altered volcanic/intrusive?
KLP 156	2700	2095	C		5.8	Intense sericite, clay altered rock. Bleached. Mariposite?
KLP 157	2715	2150	B		3.0	
KLP 158	2690	2200	B		2.5	
KLP 159	2700	2250	B		3.0	
KLP 160	2700	2300	B		6.0	
KLP 161	2700	2350	B		4.0	
KLP 162	2700	2400	B		2.0	
KLP 163	2700	2450	B		4.0	
KLP 164	2700	2500	B		3.0	
KLP 165	2400	2550	C		1.5	Fine grained, grey-green andesite sill/dyke? Weakly magnetic.
KLP 166	2400	2600	C		1.0	Fine grained, grey-green andesite with pyritic fractures & weakly magnetic.
KLP 167	2400	2650	B		7.0	
KLP 168	2000	2600	C		0.5	Pyritic augite porphyry.
KLP 169	2000	2500	C		1.0	Fractured augite porphyry; manganese, calcite coatings. Weakly magnetic.
KLP 170	1720	2450	C		0.5	Massive, fractured augite, feldspar, hornblende porphyry.
KLP 171	1720	2550	C		0.5	As above. Epidotized. 3-5% pyrite.
KLP 172	1720	2600	C		0.3	Pyritic andesite. Epidote. Trace pyrite.
KLP 173 (383-I)	1720	2650	C	2.0		Highly fractured zone (fault) with quartz stringers and minor magnetite.

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 173 (383-J)	1720	2650	C	2.0		Highly fractured zone (fault) with quartz stringers and minor magnetite.
KLP 173 (383-K)	1720	2650	C	2.0		Highly fractured zone (fault) with quartz stringers and minor magnetite.
KLP 173 (383-L)	1720	2650	C	2.0		
KLP 174 (383-N)	1720	2700	C	2.0		Gossanous, clay altered, fractured, manganese stained rock.
KLP 174 (383-O)	1720	2700	C	2.0		Gossanous, clay altered, fractured, manganese stained rock.
KLP 174 (383-P)	1720	2700	C	2.0		Gossanous volcanic? with quartz, pyrite veins & cpy.
KLP 174 (383-Q)	1720	2700	C	2.0		Quartz (30%) flooded andesite.
KLP 174 (383-R)	1720	2700	C	2.0		Clay, manganese, carbonate altered andesite/fault gouge.
KLP 175 (383-T)	1720	2750	C	?		Fault gouge described above.
KLP 176	2850	1800	C		4.0	Weathered volcanic? Chlorite & magnetite altered.
KLP 177 (383-V)	1710	2810	C	0.7		Massive quartz-carbonate vein with pyrite.
KLP 177 (383-W)	1710	2810	C			Silicified, carbonatized andesite adjacent to veins in above sample.
KLP 177 (384-A)	1710	2810				Missing sample?
KLP 178	1200	2700	C		2.0	Green, grey, locally epidotized, hornfelsic andesite.
KLP 179	1200	2675	C		1.0	Fine grained, gossanous, chloritic, pyrite andesite. Sheared.
KLP 180	1200	2650	C		1.5	Bleached, gossanous, pyritic andesite. Weak silicification & sericite. 3-5% pyrite.
KLP 181	1200	2600	C		2.5	Gossanous, fine grained, andesite with pyrite filled fractures.
KLP 182	1200	2550	C		0.5	Massive augite porphyry. Trace pyrite.
KLP 183	1200	2500	C		0.5	Massive augite porphyry. Trace pyrite.
KLP 184	1200	2450	C		1.5	Altered microdiorite. Locally fractured.
KLP 185	1200	2400	C		1.0	Chloritic, sericitic, weakly silicified andesite. 10% pyrite.
KLP 186	1200	2350	C		3.0	Altered augite porphyry/diorite. Trace - 2% pyrite. Rusty & bleached.
KLP 187	1200	2300	C		2.5	Massive, dark green, chloritic andesite. 3-5% pyrite.
KLP 188	1200	2250	C		1.5	As above with pyrite stringers. Rusty.
KLP 189	1200	2200	C		5.5	Bleached augite porphyritic andesite. 2-3% pyrite.
KLP 190	1000	2300	C		6.0	Argillically altered, gossanous, hornfelsic andesite.
KLP 191	1000	2350	C		3.5	Bleached, gossanous andesite. 2-3% pyrite & minor sericite.
KLP 192	1000	2400	C		2.0	Soft, bleached, clay, sericite, pyrite altered, oxidized volcanic/intrusive?
KLP 193	1000	2450	C		1.0	Sericite, pyrite, gossanous volcanic/intrusive. Locally to 20% fine grained disseminated pyrite.
KLP 194	1000	2500	C		1.5	Sheared carbonate, chlorite altered microdiorite.
KLP 195	1000	2550	C		1.0	Chlorite, epidote altered diorite (fine grained) with manganese fractures and trace - 3% sulfides.
KLP 196	1000	2600	C		1.5	Carbonatized andesite with limonitic fault zone.
KLP 197	1000	2650	C		5.5	Hornfelsic andesite. Siliceous, trace epidote.
KLP 198	1000	2700	C		4.0	Hornfelsic andesite. Weakly calcareous.
KLP 199	1000	2750	B		3.0	
KLP 200	775	2950	C		2.0	Strongly sheared carbonate, sericite, pyrite schist. Clay altered.
KLP 201	775	2950	C		2.0	Strongly sheared carbonate, sericite, pyrite schist. Clay altered.
KLP 202	775	2900	C		2.0	Strongly sheared carbonate, sericite, pyrite schist. Clay altered.
KLP 203	775	2850	B		3.0	
KLP 204	775	2800	C		1.0	Gossanous sericite, pyrite, schist.
KLP 205	775	2750	C		2.0	Sericite, carbonate, pyrite altered andesite.
KLP 206	775	2700	C		2.0	Bleached, gossanous, sericite, hematite +/- pyrite, limonite, carbonate altered volcanic.
KLP 207	775	2650	C		5.0	Malachite/azurite stained, magnetic, gossanous volcanic/intrusive?
KLP 208	775	2650	C		1.0	Malachite/azurite stained, magnetic, gossanous volcanic/intrusive?
KLP 209	775	2600	C		0.5	Well sheared, oxidized, clay, manganese altered gossanous volcanic/intrusive?
KLP 210	775	2550	C		?	Green clay, manganese, quartz flooded fault gouge.
KLP 211	775	2500	B		2.5	
KLP 211	775	2500	C		0.5	Carbonatized, gossanous andesite. Locally to 15% fine grained, pyrite.
KLP 212	775	2450	C		1.5	Mylonitic fault zone with quartz-carbonate boudins. Talc.
KLP 213	1600	2000	C		1.0	Massive, chloritic andesite/diorite. Local, weak manganese, pyrite, epidote flooding.
KLP 214	1800	1600	C		2.5	Quartz-hornblende felsic intrusive (quartz monzonite)?
KLP 215	1800	1550	B		2.0	
KLP 215	1800	1550	C		2.5	Brown, black graphitic shale. Trace pyrite +/- malachite.
KLP 216	1800	1500	C		4.0	Graphitic shale.
KLP 217	1800	1450	C		4.0	Graphitic shale.

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 218	1800	1400	C		5.5	Graphitic shale. Trace pyrite.
KLP 219	1800	1350	C		4.0	Tuffaceous sediment (sandstone) with quartz stringers.
KLP 220	2000	1300	C		4.0	Tuffaceous sediment. Weakly silicified. Trace - 3% pyrite. Quartz stringers with trace py, cpy.
KLP 221	2000	1350	C		3.5	Graphitic shale, bleached, with pyrite seams.
KLP 222	2000	1400	B		6.0	
KLP 223	2000	1450	B		6.0	
KLP 224	2000	1500	C		3.5	Tuffaceous sediment. Weak silicification, local epidote, 3-5% pyrite.
KLP 225	2850	1770	C		4.5	Bleached sericitic, pyritic andesite/altered intrusive.
KLP 226	2850	1750	C		2.5	Sericitic intrusive/andesite with minor malachite stained fractures.
KLP 227	2850	1720	C		5.0	Sericitic intrusive/andesite with minor malachite stained fractures.
KLP 228	3050	1700	C		7.0	Quartz monzonite? Chloritic. Trace, disseminated pyrite.
KLP 229	3050	1750	C		5.0	Pervasive propylitic alteration of monzonite. 5-7% pyrite.
KLP 230	3050	1800	C		5.0	Chloritic, epidotized altered monzonite/andesite.
KLP 231	3990	1635	C		1.5	F.g. quartz-feldspar porphyry. Sheared, chloritic. 15-20% disseminated & fracture filled py.
KLP 232	4035	1610	C		2.5	F.g. quartz-feldspar porphyry. Strongly sheared. 5% disseminated & fracture filled pyrite.
KLP 233	4040	1550	B		5.5	
KLP 234	4040	1500	C		2.0	Fine grained, quartz-feldspar porphyry. Sheared & very weathered. 10-15% disseminated pyrite.
KLP 235	4040	1450	C		2.5	As above. 2% dissemminated pyrite.
KLP 236	4040	1400	C		2.5	As above. 2% disseminated pyrite.
KLP 237	4040	1350	C		1.5	Fine grained, quartz-feldspar porphyry. Well sheared, sericitic. 1% disseminated pyrite.
KLP 238	4040	1300	C		1.5	Fine grained, quartz-feldspar porphyry. Fractured & weathered. <1% pyrite.
KLP 239	4020	1250	C		5.5	Fine grained, quartz-feldspar porphyry. Fractured & weathered. <1% pyrite.
KLP 240	4010	1200	C		4.0	Quartz-feldspar porphyry. Weakly sheared. Minor sericite. 1% disseminated pyrite.
KLP 240	4010	1200	C		4.2	Quartz-feldspar porphyry. Strongly sheared & intense sericite. 5-10% disseminated pyrite.
KLP 241	4010	1150	C		1.0	Quartz-feldspar porphyry. Weak shearing, <1% disseminated pyrite. Malachite on fractures.
KLP 242	4010	1125	C		1.0	Fine-grained quartz-feldspar porphyry. Sheared with 10-20% disseminated & fracture filled pyrite.
KLP 243	4010	1100	C		1.5	Medium-f.g. quartz-feldspar porphyry. Weak sericitic alteration. 5% disseminated py, tr malachite.
KLP 244	4010	1050	C		3.0	Gabbro with talc. Magnetic.
KLP 245	4060	1075	C		1.0	Medium-fine grained quartz-feldspar porphyry. 2-5% fine grained, disseminated pyrite.
KLP 246	4060	1125	C		1.1	Coarse grained quartz-feldspar porphyry. Silicified & sheared. 20% dissem. & fracture filled py.
KLP 247	4100	1175	B		2.5	
KLP 247	4100	1175	B		6.0	
KLP 248	4100	1225	B		4.5	
KLP 248	4100	1225	B		6.5	
KLP 249	4175	1275	C		1.5	Quartz-feldspar porphyry. Bleached, sheared, sericitic. 10-15% disseminated pyrite.
KLP 250	4175	1325	C		1.0	Well sheared, sericitic quartz-feldspar porphyry; bleached. Trace pyrite.
KLP 251	4175	1375	B		3.0	
KLP 252	4200	1425	B		5.5	
KLP 253	4220	700	C		4.0	Sheared, fine grained, quartz-feldspar porphyry.
KLP 254	4230	700	C		4.5	Sheared, finge grained, quartz-feldspar porphyry. 20-25% disseminated pyrite.
KLP 255	4255	700	B		5.5	
KLP 256	4280	700	B		5.0	
KLP 257	4305	700	B		5.0	
KLP 258	4200	2050	C		4.5	Chloritic quartz-feldspar porphyry. Trace pyrite.
KLP 259	4200	2000	C		1.5	Quartz-feldspar +/- augite porphyry. Chloritic, epidotized. <1% pyrite.
KLP 260	4200	1950	C		4.0	Chloritic quartz-feldspar porphyry. Trace pyrite.
KLP 261	4200	1900	C		3.0	As above. <1% pyrite.
KLP 262	4200	1850	C		4.5	Qtz-feldspar porphyry/silicified tuff. Chloritic, hematitic. 15-20% fine-medium grained, diss. py.
KLP 263	5600	2200	B		6.5	
KLP 264	5600	2250	B		6.0	
KLP 265	5600	2300	C		3.0	Quartz-feldspar-augite porphyry. Minor epidote. 2% pyrite.
KLP 266	5600	2390	C		3.5	Quartz-feldspar +/- augite porphyry. Diorite? Magnetic.
KLP 267	5600	2460	C		2.5	Quartz-feldspar porphyry +/- augite/hornblende. Minor epidote. Traces pyrite.
KLP 268	5600	2500	C		4.5	Quartz-feldspar-augite porphyry. Locally magnetic. 2% pyrite in fractures.
KLP 269	5600	2535	C		0.5	Quartz-feldspar porphyry +/- augite. Trace pyrite.

KLIYUL PROPERTY - PIT & TRENCH SAMPLE DESCRIPTIONS

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PIT #/ SAMPLE #	LOCATION EAST	NORTH	TYPE	WIDTH (Metres	DEPTH Metres)	DESCRIPTION
KLP 270	5585	2610	C		4.0	Quartz-feldspar porphyry. Very dark green - black. Trace pyrite.
KLP 271	5600	2650	C		5.5	Qtz-feldspar porphyry +/- coarse augite phenocyrsts. Dark green-black. <1% fine grained, diss. py.
KLP 272	5600	2700	C		5.0	Fine grained, quartz-feldspar-augite porphyry. Epidote surrounds phenocrysts. Magnetic. Tr py.
KLP 273	5645	2770	B		6.0	
KLP 274	5600	2800	C		5.0	Quartz-feldspar porphyry. Minor epidote; +/- coarse grained augite phenocrysts. Magnetic. Tr py.
KLP 275	5600	2850	C		2.0	Coarse grained porphyry. Chloritic. 2-5% pyrite.
KLP 276	5600	2900	C		1.0	C.g. porphyry. Moderate epidote rimming qtz-feldspar phenocrysts 5-10% f.g. diss. py. Float.
KLP 276	5600	2900	C		7.0	Fine grained quartz-feldspar porphyry +/- augite. Weakly magnetic. 1-2% fracture filled pyrite.
KLP 276	5600	2900	C		7.0	Diorite. Minor epidote associated with secondary quartz. Magnetic. Trace pyrite.
KLP 277	5600	2950	C		6.0	Volcanic tuff, weakly brecciated, quartz sweats +/- carbonate. Minor magnetite. <1% pyrite.
KLP 278	5600	3000	C		3.5	
KLP 279	5800	2600	C		5.5	
KLP 280	5800	2545	C		3.5	Diorite. Minor epidote associated with quartz. Magnetic. Trace pyrite.
KLP 281	5800	2500	C		1.0	Quartz (porphyry) diorite. Black-dark green. Magnetic, 1% pyrite. Quartz & epidote.
KLP 282	5820	2450	C		1.5	Quartz-feldspar porphyry. Quartz sweats & epidote. Magnetic. 1-2% disseminated pyrite.
KLP 283	6000	2645	C		2.5	Diorite. 5% coarse grained pyrite.
KLP 284	6000	2500	C		4.5	Diorite. Minor epidote/quartz sweats. Very magnetic. <1% pyrite.
KLP 285	6000	2460	C		2.0	Sheared diorite, chloritic. Trace pyrite.
KLP 286	6000	2400	C		4.0	?
KLP 287	6000	2350	C		2.5	?
KLP 288	6000	2300	C		1.5	?

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL – 148 | **Geol.:** T.W. | **Date received:** AUG. 17 | **LAB CODE:** 9308–033

Material: 54 Rx | **Sheet:** 1 of 2 | **Date completed:** SEP. 02

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. 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	
45	KLP 60 – 3.0	10	0.2	6.03	2	747	0.2	5	0.23	0.2	16	1	6	23	4.52	2.19	7	7	0.82	171	3	0.19	2	0.11	2	62	0.18	190	54	Kli 9
46	61 – 0.3 Rx	5	0.2	6.38	2	179	0.3	5	5.12	0.2	58	6	9	18	6.08	0.49	10	17	2.18	1547	3	0.10	6	0.08	4	194	0.40	228	133	
47	62 – 0.3 Rx	20	0.2	4.23	2	358	0.3	5	2.03	0.2	50	3	11	37	6.65	0.45	12	15	2.17	1107	1	0.11	6	0.08	8	206	0.39	228	154	Kli 10
48	63 – 1.0 Rx	20	0.2	4.46	2	767	0.3	5	0.75	0.3	33	6	44	44	4.55	1.46	11	14	2.06	644	4	0.10	16	0.09	6	83	0.21	140	111	
51	64 – 3.0 Rx	5	0.4	4.86	2	707	0.4	5	1.73	0.3	49	24	20	92	5.12	1.25	14	37	2.55	1073	2	0.14	10	0.08	20	48	0.08	201	74	
52	[illegible]	10	0.2	7.06	2	45	0.3	5	6.23	0.2	76	34	14	87	6.97	0.10	10	17	2.55	1621	2	0.09	12	0.08	5	360	0.51	387	126	
53	KLP79 381 – F dup.	30	0.2	7.50	2	878	0.4	5	0.69	0.2	35	28	11	108	6.60	2.18	12	43	2.28	1856	1	0.15	13	0.10	4	36	0.09	242	202	Darb 2
54	KLP79 381 – O	20	0.2	6.49	2	491	0.4	5	1.44	0.8	48	26	12	88	6.75	1.17	14	51	2.78	1709	1	0.13	12	0.10	12	72	0.11	241	199	
55	KLP79 381 – Q	220	2.0	4.47	2	596	0.4	5	0.04	0.2	13	16	62	40	3.69	1.88	6	4	0.24	863	6	0.09	9	0.05	10	11	0.05	112	56	
56	KLP79 381 – R	70	1.2	2.92	2	405	0.3	5	0.04	0.2	14	9	87	24	2.36	1.20	5	5	0.25	663	14	0.06	7	0.04	5	7	0.02	81	105	
57	KLP79 381 – S	40	0.2	7.61	2	1067	0.5	5	0.54	0.7	32	21	11	56	6.03	2.95	11	25	1.85	2052	4	0.09	11	0.10	4	17	0.09	230	400	
58	KLP79 381 – T	20	0.2	6.45	2	841	0.3	5	2.09	0.2	60	17	12	58	6.09	1.34	12	29	2.47	2480	6	0.09	8	0.09	50	128	0.32	202	422	
59	KLP84 381 – F	40	8.4	4.66	2	868	0.6	5	0.42	0.4	42	18	18	109	4.94	1.84	14	18	1.34	1908	27	0.10	21	0.20	8	12	0.07	197	209	Kli 25
60	KLP84 381 – G	1500	3.2	2.72	2	359	0.3	5	0.05	0.2	11	7	89	23	2.51	1.22	3	5	0.21	389	574	0.03	6	0.03	16	6	0.04	85	25	
61	KLP84 381 – H	980	1.6	0.78	2	127	0.2	5	0.08	0.2	5	9	189	15	1.79	0.31	3	4	0.12	556	246	0.03	8	0.02	19	4	0.01	29	25	
62	KLP84 381 – I	360	1.4	0.65	2	92	0.2	5	0.09	0.2	5	5	207	19	1.30	0.19	1	3	0.11	533	184	0.03	4	0.02	172	5	0.01	20	16	
63	KLP84 381 – J	1400	1.2	2.06	2	351	0.2	5	0.07	0.2	5	16	104	19	4.96	0.86	4	5	0.51	592	50	0.08	7	0.04	11	3	0.03	92	36	
4	KLP84 381 – K	260	0.4	0.61	2	66	0.2	5	0.08	0.2	5	6	157	16	2.01	0.17	1	1	0.10	395	57	0.05	3	0.02	2	5	0.02	20	16	
5	KLP84 381 – L	620	0.4	4.10	2	788	0.3	5	0.08	0.2	5	18	22	58	4.59	1.43	5	15	1.73	1721	1	0.11	7	0.06	2	6	0.07	171	107	
6	KLP84 381 – M	5	0.2	5.48	2	210	0.3	5	3.76	0.2	53	19	12	31	6.01	0.35	9	21	2.59	2316	1	0.10	7	0.07	6	242	0.36	215	163	
7	KLP 86 – 0.6 Rx	5	0.2	7.38	2	1038	0.3	5	0.48	0.2	17	4	10	22	5.91	2.81	7	11	1.65	327	1	0.11	4	0.09	2	49	0.34	192	88	Kli 19
8	88 – 2.0 Rx	5	0.2	5.74	2	538	0.4	5	0.22	0.2	26	5	12	150	3.75	1.24	12	27	1.84	237	2	0.25	3	0.08	2	73	0.05	127	44	
9	89 – 2.0 Rx	5	0.2	7.47	2	215	0.6	5	0.12	0.2	21	13	10	118	5.17	1.53	9	36	2.17	190	2	0.60	3	0.10	3	97	0.05	148	49	Kli 20
0	90 – 4.0 Rx	5	0.2	6.15	2	296	0.4	5	0.14	0.2	15	4	10	158	4.42	0.88	5	27	1.58	208	2	0.68	2	0.09	2	104	0.06	135	62	
1	91 – 1.5 Rx	580	0.2	6.39	2	329	0.5	5	0.12	0.3	16	6	12	56	4.60	1.71	10	15	1.58	254	16	0.35	3	0.10	2	53	0.06	144	49	
2	92 – 1.5 Rx	60	0.2	4.63	2	209	0.2	5	2.56	0.3	38	8	11	104	4.67	0.48	13	12	1.61	307	4	0.11	4	0.08	2	198	0.12	158	42	
3	120 – 5.0 Rx	30	0.2	5.82	2	602	0.4	5	1.76	0.2	39	8	16	75	3.17	1.47	17	13	1.12	890	3	0.19	6	0.10	2	121	0.07	77	77	
4	121 – 4.0 Rx	30	0.2	3.86	4	226	0.7	5	12.85	0.2	65	20	27	1110	4.95	0.86	8	20	1.37	1822	35	0.10	17	0.08	2	267	0.03	158	57	Kli 17
5	122 – 5.0 Rx	30	0.2	4.65	2	114	0.3	5	3.22	0.2	43	6	12	106	5.32	0.43	12	15	2.06	1209	4	0.12	5	0.08	5	201	0.34	184	95	
6	122 – 6.05 Rx	10	0.2	5.57	2	695	0.4	5	3.95	0.3	51	10	13	45	3.99	1.06	16	13	1.10	1061	2	0.13	8	0.10	7	236	0.16	116	61	
7	123 – 5.5 Rx	20	0.2	5.27	2	1058	0.7	5	2.26	0.3	63	13	15	731	4.96	1.60	25	14	1.28	1168	2	0.12	8	0.18	9	423	0.31	133	111	
3	124 – 5.6 Rx	410	0.2	6.12	2	391	0.3	5	0.43	0.2	5	16	9	2990	6.00	1.85	11	16	1.24	412	8	0.16	6	0.10	3	38	0.07	198	51	
[illegible]	127 – 1.5 Rx	60	0.2	5.67	12	461	0.4	5	1.87	0.7	37	24	68	70	7.67	0.70	15	26	3.69	1087	6	0.06	35	0.10	16	149	0.34	259	364	Kli 8
[illegible]	128 – 0.3 Rx	170	0.2	5.88	2	568	0.4	5	0.71	0.3	26	4	25	251	4.91	1.70	16	34	2.49	806	5	0.11	7	0.09	48	60	0.18	138	270	
1	KLP 133 – 3.0 Rx	20	0.2	5.19	2	813	0.3	5	0.89	0.3	28	12	12	86	5.06	2.06	10	19	2.19	646	2	0.09	6	0.12	7	96	0.25	171	147	

17/07 GP

9306-033 Pg. 2 of 2

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	
282	KLP 134 – 3.0 Rx	5	0.2	4.72	2	585	0.3	5	0.81	0.2	28	15	9	49	5.56	1.09	9	17	1.99	726	1	0.12	4	0.10	2	137	0.20	129	89	Kli6
283	KLP140 382 – M 1.0m	60	0.2	5.57	2	628	0.3	5	2.13	0.2	49	13	10	213	5.27	1.40	11	14	1.77	596	2	0.09	8	0.10	8	176	0.25	145	250	
284	KLP140 382 – N 1.0m	190	0.4	6.30	2	1130	0.4	5	1.14	0.2	35	9	15	547	5.75	2.34	10	12	1.46	550	6	0.08	9	0.09	7	113	0.28	137	208	
285	KLP140 382 – O 1.0m	60	0.4	6.15	2	782	0.4	5	1.51	0.2	45	11	13	186	4.65	2.16	13	14	1.73	435	2	0.09	11	0.11	8	124	0.26	110	168	
286	KLP140 382 – P 1.0m	620	0.2	6.59	2	951	0.4	5	0.51	0.2	26	10	11	463	4.71	2.87	10	13	1.19	493	7	0.07	8	0.10	10	54	0.23	128	152	
287	KLP140 382 – Q 1.0m	100	0.2	5.45	2	924	0.3	5	1.46	0.2	45	9	22	263	4.37	2.00	11	14	1.39	362	4	0.10	12	0.09	27	114	0.22	110	179	
288	KLP141 382 – R 1.0m	60	0.2	5.17	2	693	0.3	5	0.20	0.3	20	12	24	119	5.41	1.85	9	21	2.24	337	5	0.07	16	0.09	109	14	0.14	148	366	
289	KLP141 382 – S 1.0m	180	4.0	5.52	2	322	0.7	5	0.55	1.6	23	24	293	215	5.81	1.74	9	23	2.79	343	5	0.04	105	0.11	253	27	0.07	220	650	
290	KLP141 382 – T 1.0m	130	1.2	4.43	4	254	0.9	5	1.91	5.9	43	47	304	1659	6.15	1.54	10	19	2.67	1323	6	0.04	121	0.14	179	23	0.05	181	1088	
291	KLP141 382 – U 1.0m	50	0.2	6.12	2	422	1.2	5	0.79	3.1	29	48	147	2443	6.26	2.31	9	20	2.29	614	6	0.05	93	0.13	116	19	0.08	200	1085	
292	Rx KLP 142 – 5.5	80	0.2	4.47	2	610	0.2	5	1.04	0.2	36	13	13	450	9.86	1.54	8	18	1.63	835	2	0.09	4	0.09	2	81	0.32	183	300	Kli5

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
170	KLP [illegible] – 2.0 Soil	140	0.6	4.73	9	437	0.3	5	1.80	0.2	48	28	23	758	7.47	0.81	14	17	1.45	869	4	0.10	19	0.14	9	141	0.28	173	130
171	[illegible] – 3.0 Soil	90	0.2	4.33	9	319	0.3	5	2.05	0.2	48	36	24	1003	6.53	0.70	14	14	1.28	982	4	0.09	19	0.10	8	140	0.22	160	154
172	[illegible] – 2.0 Soil	220	2.0	4.62	15	415	0.3	5	1.43	0.2	43	21	19	499	8.61	0.89	14	14	1.50	824	15	0.11	18	0.17	8	126	0.30	179	111
173	KLP 40 – 3.4 Soil	180	1.2	4.65	10	317	0.3	5	1.21	0.2	49	42	13	1086	7.15	0.95	17	14	1.47	1027	17	0.08	14	0.15	5	106	0.23	157	74
174	KLP 41 – 2.0 Soil	200	0.4	4.60	17	284	0.3	5	1.49	0.4	46	31	19	1112	7.82	0.68	14	14	1.37	917	3	0.12	20	0.14	2	112	0.19	168	99
175	41 – 5.3 Soil	110	0.2	4.71	12	316	0.3	5	1.48	0.2	46	25	17	951	6.64	0.78	13	14	1.48	844	6	0.09	17	0.13	4	114	0.22	165	82
176	42 – 2.0 Soil	40	0.2	4.82	9	255	0.3	5	1.85	0.2	49	19	20	436	5.49	0.56	13	14	1.41	961	1	0.10	20	0.12	2	121	0.24	165	85
177	42 – 4.5 Soil	120	0.4	4.54	8	486	0.5	5	1.48	0.6	55	51	13	2699	5.73	0.80	17	15	1.38	2721	11	0.08	15	0.14	8	132	0.14	135	125
178	KLP 43 – 2.0 Soil	350	0.6	4.31	8	371	0.4	5	1.36	0.4	48	32	21	1957	7.21	0.81	15	15	1.38	1697	11	0.11	20	0.11	4	94	0.17	146	198

K; 17

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	Notes
79	KLP 44 – 2.0 Soil	150	0.2	4.76	9	309	0.3	5	1.44	0.4	48	29	17	686	6.50	0.71	14	17	1.52	1155	7	0.18	20	0.10	4	109	0.15	157	113	Kli 17
80	44 – 6.0 Soil	80	0.2	4.35	8	310	0.3	5	1.51	0.6	49	30	19	652	6.51	0.67	14	15	1.37	1467	14	0.14	23	0.10	5	107	0.15	151	149	
81	45 – 1.0 Soil	90	0.2	6.37	8	430	0.4	5	0.43	0.2	30	28	12	430	7.86	1.23	14	20	1.61	1035	6	0.29	15	0.16	6	81	0.07	163	163	
82	46 – 2.0 Soil	20	0.2	5.49	6	336	0.5	5	3.84	0.2	43	32	47	317	6.14	0.76	13	21	2.09	1334	2	0.17	70	0.10	2	116	0.19	185	91	
83	KLP 46 – 5.0 Soil	280	0.2	6.58	2	596	0.6	5	0.90	0.6	46	44	11	1011	8.31	1.44	17	22	1.69	2081	9	0.27	21	0.13	10	84	0.08	162	149	
84	KLP 47 – 1.0 Soil	180	0.6	5.44	9	385	0.3	5	1.63	0.2	50	12	15	162	6.94	1.00	15	13	1.31	822	10	0.09	13	0.14	18	145	0.31	174	136	
85	48 – 2.0 Soil	55	0.2	6.13	11	443	0.3	5	2.00	0.2	50	10	15	98	7.00	1.39	14	12	1.37	691	11	0.10	15	0.10	8	174	0.52	201	88	Kli 8
86	51 – 2.0 Soil	160	0.8	4.63	5	422	0.4	5	1.45	0.2	48	13	23	727	8.90	1.04	15	12	1.10	616	10	0.09	14	0.15	46	127	0.23	161	197	
87	51 – 3.0 Soil	220	0.4	4.97	9	437	0.5	5	0.79	0.2	40	8	20	1193	11.53	1.32	14	14	1.06	373	17	0.09	12	0.19	67	65	0.14	153	231	
88	KLP 52 – 2.0 Soil	130	1.0	4.45	11	420	0.3	5	1.80	0.2	51	9	24	181	7.72	0.85	15	11	1.24	699	7	0.12	15	0.14	89	193	0.34	174	128	
89	KLP 52 – 4.0 Soil	180	1.8	4.46	13	402	0.3	5	1.69	0.2	49	9	30	243	8.49	0.84	15	12	1.26	723	7	0.10	14	0.21	75	157	0.25	169	153	
90	53 – 2.0 Soil	170	1.6	4.89	10	518	0.3	5	2.06	0.2	52	14	32	348	7.67	0.87	15	13	1.46	810	6	0.10	17	0.14	28	183	0.28	180	134	
91	53 – 3.0 Soil	70	0.2	5.41	5	444	0.3	5	2.08	0.2	53	11	23	202	7.01	0.93	16	14	1.42	874	5	0.07	14	0.14	44	184	0.24	157	130	
92	54 – 2.0 Soil	80	1.0	5.13	8	462	0.6	5	0.91	0.5	39	50	53	224	9.13	0.88	14	16	1.35	1578	4	0.10	33	0.17	50	87	0.14	153	133	
93	KLP 54 – 3.6 Soil	40	0.2	4.85	6	621	0.5	5	0.68	2.3	36	43	33	217	10.21	0.96	14	18	1.46	2162	3	0.11	40	0.18	51	57	0.09	133	165	
94	KLP 55 – 2.0 Soil	65	0.4	5.34	11	539	0.4	5	1.25	1.2	45	35	15	206	10.04	1.03	15	16	1.89	1471	5	0.06	16	0.13	124	87	0.25	156	632	Kli 10
95	55 – 4.0 Soil	65	0.6	4.99	11	661	0.3	5	0.85	2.2	40	33	10	158	10.90	1.32	15	17	2.19	1585	7	0.05	11	0.13	122	54	0.24	130	466	
96	56 – 2.0 Soil	110	0.2	4.65	9	466	0.3	5	1.82	0.2	51	11	27	176	6.65	0.82	15	13	1.35	694	5	0.10	15	0.14	32	180	0.29	171	118	
97	56 – 3.5 Soil	170	0.2	4.63	11	475	0.3	5	1.68	0.2	50	13	32	224	6.79	0.79	15	14	1.37	721	5	0.09	15	0.14	30	157	0.28	165	159	
98	KLP 58 – 1.0 Soil	100	0.2	4.93	13	428	0.4	5	1.75	0.2	52	16	26	156	6.59	0.84	16	14	1.31	699	4	0.09	19	0.15	24	169	0.27	162	115	
01	KLP 58 – 1.5 Soil	75	0.2	5.41	9	329	0.4	5	1.39	0.2	45	42	25	223	8.22	0.70	13	16	1.25	984	3	0.08	18	0.14	12	135	0.25	150	127	
02	59 – 2.0 Soil	160	0.2	5.27	4	428	0.3	5	1.38	0.2	47	6	23	78	6.66	1.10	14	11	1.17	533	4	0.11	12	0.10	8	131	0.30	177	90	
03	60 – 2.0 Soil	45	0.2	5.96	3	589	0.3	5	0.98	0.2	44	7	8	108	5.46	1.65	14	12	1.24	493	4	0.14	10	0.15	5	152	0.25	182	80	Kli 19
04	64 – 2.0 Soil	60	0.2	4.35	12	511	0.3	5	1.73	1.1	50	15	16	208	8.38	0.81	15	15	1.47	1210	20	0.07	16	0.15	25	134	0.29	167	241	Kli 10
05	KLP 65 – 2.0 Soil	70	0.2	4.99	16	414	0.4	5	2.10	1.5	53	29	25	251	7.27	0.80	15	15	1.72	1468	2	0.09	23	0.13	152	146	0.28	174	388	"
6	KLP 66 – 1.5 Soil	75	0.2	5.74	14	298	0.5	5	2.07	0.4	54	33	26	191	7.41	0.76	16	18	2.05	1463	3	0.09	22	0.13	54	154	0.32	194	216	Kli 10
7	67 – 2.5 Soil	40	0.2	5.42	9	534	0.4	5	2.67	0.2	55	23	22	143	6.03	0.80	16	15	1.75	1405	1	0.10	21	0.13	13	204	0.29	180	121	Darb 2
8	69 – 2.0 Soil	100	0.2	5.21	13	388	0.4	5	2.59	0.5	56	30	30	223	7.00	0.73	16	15	1.66	1365	3	0.09	22	0.12	17	161	0.30	193	157	Kc 1
9	70 – 2.0 Soil	60	0.2	5.26	11	383	0.4	5	2.63	0.2	57	28	22	227	6.47	0.80	15	15	1.65	1594	1	0.09	18	0.12	18	215	0.27	182	137	
0	KLP 70 – 3.5 Soil	100	0.2	5.77	11	462	0.4	5	2.53	0.3	54	24	20	194	6.06	0.87	15	18	2.13	1781	2	0.09	20	0.11	18	200	0.30	207	144	
1	KLP 71 – 2.0 Soil	95	0.2	4.74	6	370	0.4	5	2.12	0.8	48	35	29	359	7.25	0.69	15	16	1.75	1941	2	0.08	21	0.12	19	145	0.25	175	245	
2	71 – 3.5 Soil	130	0.2	4.86	11	437	0.4	5	2.00	0.8	49	29	29	263	6.68	0.84	15	16	1.54	1766	3	0.10	20	0.11	20	141	0.23	170	160	
3	72 – 1.5 Soil	55	0.2	5.75	12	410	0.4	5	2.05	1.3	48	27	17	209	6.42	0.85	14	18	2.09	1747	1	0.08	20	0.12	78	137	0.30	192	273	
4	72 – 2.5 Soil	75	0.2	5.69	16	330	0.4	5	2.15	2.0	47	28	18	215	6.31	0.84	14	18	2.15	1693	1	0.08	20	0.11	48	135	0.31	190	331	
5	KLP 73 – 2.0 Soil	35	0.2	5.03	10	1178	0.3	5	1.85	0.2	47	22	14	129	6.64	1.22	14	14	1.93	1315	7	0.07	13	0.14	26	150	0.36	162	142	Kli 25
6	KLP 74 – 2.0 Soil	120	0.2	5.67	18	1844	0.3	5	0.47	0.5	39	2	7	56	9.02	2.84	17	16	2.95	855	1	0.07	8	0.12	37	108	0.41	204	144	
7	74 – 4.5 Soil	180	0.2	5.04	24	1332	0.3	5	1.46	1.1	47	20	12	152	8.08	1.43	14	15	2.37	1746	20	0.07	14	0.16	71	146	0.42	213	341	
8	75 – 2.0 Soil	230	0.2	5.27	12	477	0.5	5	1.47	2.5	48	61	23	457	7.56	0.84	15	19	1.58	2146	13	0.08	27	0.14	42	107	0.24	167	464	Darb 2
9	77 – 2.0 Soil	380	0.2	5.05	14	505	0.5	5	1.49	5.1	49	43	79	356	7.95	1.04	15	18	1.35	2962	9	0.10	56	0.16	24	111	0.19	175	736	
0	KLP 78 – 2.0 Soil	120	0.2	5.33	22	494	0.4	5	1.60	2.6	48	58	48	327	8.68	0.85	16	23	1.89	3768	6	0.07	35	0.16	127	117	0.22	185	412	
1	KLP 81 – 2.0 Soil	70	0.2	4.80	2	1201	0.3	5	1.84	0.2	42	12	12	100	6.58	1.28	12	18	1.95	1238	8	0.07	11	0.10	12	139	0.37	179	194	Kli 25
2	82 – 2.0 Soil	60	0.2	4.75	9	547	0.3	5	1.86	0.2	44	34	32	260	7.78	0.89	13	16	2.71	1908	4	0.06	28	0.18	2	119	0.45	223	145	"
3	85 – 2.0 Soil	130	0.2	5.25	2	869	0.2	5	0.69	0.2	36	1	8	47	5.09	1.54	12	9	1.09	281	3	0.11	6	0.06	5	85	0.59	193	67	Kli 19
4	86 – 1.0 Soil	130	0.2	5.70	7	388	0.3	5	1.24	0.2	43	7	18	93	6.08	1.10	14	10	1.07	452	3	0.08	14	0.16	3	100	0.38	175	70	
5	KLP 87 – 2.0 Soil	85	0.2	4.88	8	350	0.3	5	2.00	0.5	49	28	25	322	6.19	0.73	13	15	1.68	1271	2	0.11	26	0.12	10	142	0.26	178	132	

?.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	Notes
26	KLP 87 – 3.5 Soil	95	0.2	5.21	4	331	0.4	5	1.78	0.4	48	26	21	290	7.09	0.87	16	16	1.68	1029	5	0.12	22	0.14	10	132	0.25	170	144	Kli 19
27	88 – 2.0 Soil	110	0.8	5.38	12	425	0.5	5	1.61	0.7	49	31	25	562	7.00	0.90	15	17	1.63	1277	9	0.12	24	0.16	23	124	0.22	170	141	
28	90 – 2.5 Soil	90	0.2	6.14	4	510	0.4	5	1.32	0.4	46	30	21	582	7.28	1.14	15	18	1.77	1198	7	0.19	24	0.15	6	121	0.20	179	125	Kli 20
29	93 – 2.0 Soil	150	0.2	5.40	7	497	0.4	5	1.74	0.2	49	26	28	516	6.14	1.02	14	16	1.66	1109	3	0.11	23	0.14	8	145	0.23	174	124	Kli 19
30	KLP 96 – 2.0 Soil	90	0.8	5.16	4	294	0.4	5	2.13	0.6	49	28	29	2104	6.25	0.64	14	16	1.78	1174	6	0.10	28	0.11	2	136	0.26	185	121	
31	KLP 97 – 2.0 Soil	130	0.2	4.94	2	371	0.4	5	1.26	0.2	47	26	13	806	5.45	0.88	15	15	1.24	1151	5	0.09	12	0.12	2	106	0.15	143	91	
32	98 – 2.0 Soil	80	0.2	5.09	11	326	0.3	5	1.56	0.2	46	15	21	785	6.60	0.77	14	15	1.38	760	4	0.09	19	0.13	2	125	0.25	166	115	
33	100 – 2.0 Soil	100	0.6	5.81	10	461	0.4	5	1.31	0.2	46	8	8	176	6.82	1.47	13	12	0.97	493	6	0.12	9	0.09	22	143	0.38	165	128	
34	102 – 2.0 Soil	120	0.8	4.43	8	811	0.3	5	1.57	0.7	44	13	29	796	7.80	1.08	14	14	1.87	786	8	0.08	17	0.13	48	153	0.34	194	242	Kli 10
35	KLP 102 – 3.5 Soil	120	0.4	4.98	15	519	0.4	5	1.79	1.4	49	35	24	514	8.47	0.82	15	16	1.71	987	5	0.08	22	0.15	75	153	0.27	175	689	11
36	KLP 103 – 2.0 Soil	130	1.4	4.99	5	515	0.3	5	1.76	0.2	49	11	29	134	6.99	0.86	15	12	1.40	820	5	0.10	18	0.15	121	170	0.30	178	147	
37	103 – 3.0 Soil	90	0.6	4.90	8	444	0.4	5	1.73	0.3	50	13	31	192	6.67	0.75	14	13	1.50	852	3	0.09	20	0.14	101	147	0.27	162	298	
38	104 – 2.5 Soil	30	0.4	5.23	17	453	0.4	5	2.13	0.4	53	31	16	252	12.09	0.76	18	15	1.68	881	10	0.06	13	0.16	82	165	0.25	183	256	
39	105 – 2.5 Soil	15	0.2	8.59	2	682	0.6	5	0.90	0.2	41	29	9	162	5.36	1.52	14	29	1.70	874	1	0.58	16	0.12	2	146	0.08	174	56	
40	KLP 107 – 1.5 Soil	70	0.2	5.99	13	385	0.4	5	2.23	1.6	49	38	18	216	7.70	0.88	14	18	1.99	2402	3	0.07	21	0.12	69	135	0.31	192	518	
41	KLP 108 – 2.0 Soil	65	0.2	4.39	8	424	0.4	5	1.73	1.4	44	40	29	378	6.49	0.67	14	13	1.31	1382	3	0.07	23	0.13	43	145	0.25	153	375	
42	109 – 1.5 Soil	90	0.2	4.87	13	476	0.3	5	1.46	0.9	43	30	19	256	6.40	0.72	13	13	1.62	2118	5	0.06	17	0.14	35	120	0.30	164	252	
43	111 [illegible] Soil	15	0.2	4.81	5	511	0.3	5	1.03	0.2	37	12	15	93	8.56	0.79	13	16	1.81	876	6	0.08	12	0.19	23	126	0.21	143	102	Kli 8
44	113 – 2.0 Soil	100	0.4	5.14	9	416	0.4	5	1.66	0.2	47	16	26	1134	6.30	0.73	15	14	1.47	949	4	0.09	20	0.15	20	137	0.28	157	162	
45	KLP 114 – 2.0 Soil	420	0.2	4.09	3	262	0.3	5	2.09	0.2	47	13	22	226	5.17	0.51	13	9	1.12	762	2	0.07	14	0.10	7	141	0.22	151	93	
46	KLP 115 – 3.5 Soil	310	0.8	4.40	5	387	0.3	5	1.88	0.2	48	9	17	465	5.55	0.81	14	11	1.13	666	6	0.08	12	0.10	198	155	0.23	154	140	Kli 17
47	117 – 2.0 Soil	200	0.6	4.84	2	347	0.4	5	1.68	0.2	48	20	13	1542	5.65	0.88	15	13	1.35	933	5	0.09	14	0.11	5	128	0.20	151	68	
48	117 – 4.0 Soil	280	1.4	5.15	2	345	0.3	5	1.16	0.2	46	15	15	2198	7.19	1.02	15	15	1.55	562	10	0.08	14	0.15	5	101	0.20	159	80	
51	119 – 1.5 Soil	190	0.2	5.73	2	426	0.4	5	0.68	0.3	36	29	15	424	7.34	1.13	15	17	1.42	1485	5	0.22	19	0.15	8	83	0.10	145	259	
52	KLP 121 – 2.1 Soil	170	1.0	5.68	13	424	0.4	5	1.49	0.2	47	24	15	932	7.24	1.24	15	17	1.45	946	5	0.11	18	0.14	9	108	0.20	171	190	
53	KLP 121 – 6.0 Soil	240	0.2	5.62	6	425	0.4	6	1.10	0.6	45	44	17	1000	8.41	0.88	17	19	1.76	2142	17	0.27	28	0.12	7	105	0.09	159	150	
54	122 – 2.0 Soil	130	0.2	5.07	10	293	0.4	5	1.94	0.2	49	30	13	1022	8.41	0.71	15	15	1.53	1269	7	0.10	16	0.13	4	138	0.24	172	118	
55	123 – 2.0 Soil	85	0.2	5.12	12	294	0.4	5	1.95	0.3	50	31	28	748	7.08	0.60	15	18	1.85	1273	2	0.11	31	0.12	4	124	0.26	192	107	
56	123 – 3.0 Soil	420	1.2	4.87	8	328	0.3	5	1.67	0.2	52	45	18	1970	6.85	0.80	18	12	1.33	874	10	0.10	16	0.13	6	138	0.19	166	116	
57	KLP 124 – 2.5 Soil	170	0.2	5.06	13	334	0.4	5	2.07	0.3	51	29	21	1553	6.15	0.67	15	15	1.56	1237	3	0.10	22	0.11	5	123	0.23	174	99	
58	KLP 124 – 5.5 Soil	470	0.8	5.13	7	307	0.3	5	1.07	0.2	55	16	10	2774	7.15	1.23	20	13	1.13	534	10	0.10	13	0.11	4	83	0.12	150	102	
59	125 – 2.0 Soil	65	0.2	5.72	12	512	0.4	5	1.94	0.3	54	23	27	945	6.32	0.87	16	18	1.81	1023	4	0.11	24	0.12	14	142	0.27	180	148	
60	125 – 3.0 Soil	100	0.2	4.79	10	370	0.3	5	1.94	0.5	52	25	33	1739	6.22	0.76	16	15	1.54	1040	5	0.10	20	0.11	11	129	0.24	173	129	
61	126 – 2.0 Soil	200	1.2	4.57	20	367	0.3	7	1.71	0.5	49	20	30	318	7.50	0.82	15	13	1.32	832	5	0.10	17	0.15	15	156	0.27	170	126	
62	KLP 126 – 3.0 Soil	1700	0.4	4.87	30	316	0.4	10	1.67	0.7	54	67	27	1923	8.85	0.73	16	15	1.29	2142	28	0.08	21	0.11	10	121	0.21	149	163	
63	KLP 129 – 2.0 Soil	70	0.2	5.13	8	418	0.3	5	1.65	0.4	49	20	27	295	6.11	0.70	14	14	1.71	992	3	0.08	22	0.14	25	129	0.27	165	138	Kli 8
64	130 – 2.0 Soil	150	0.8	4.89	18	592	0.3	8	2.00	0.3	54	13	43	252	6.52	0.92	17	15	1.79	808	7	0.09	22	0.12	20	204	0.29	181	171	
65	130 – 3.8 Soil	70	0.6	4.69	12	509	0.3	6	1.81	0.5	56	38	32	239	6.12	0.95	19	19	2.24	988	16	0.08	17	0.11	31	193	0.31	192	211	
66	131 – 2.5 Soil	65	0.2	5.57	15	789	0.3	5	0.95	0.3	40	6	12	212	5.74	1.85	12	13	1.45	588	6	0.07	11	0.11	16	110	0.26	168	128	
67	KLP 132 – ? Soil	45	0.2	4.66	11	411	0.3	12	1.66	0.3	54	7	11	188	12.35	0.94	18	13	1.39	579	12	0.04	11	0.17	22	193	0.24	175	124	
68	KLP 132 – 4.0 Soil	70	0.2	5.73	16	475	0.4	5	1.89	0.5	50	28	34	215	6.76	0.78	15	15	1.67	1138	3	0.08	25	0.13	12	167	0.26	167	149	
69	135 – 5.0 Soil	60	0.2	5.71	13	452	0.4	6	1.77	0.4	54	26	42	152	6.35	0.77	17	17	1.70	1368	2	0.09	28	0.14	14	155	0.26	165	102	
70	136 – 2.0 Soil	130	0.2	5.25	10	372	0.4	5	2.16	0.5	52	30	34	275	6.46	0.62	15	14	1.59	1190	2	0.10	24	0.12	12	159	0.26	174	123	Kli 6
71	137 – 2.5 Soil	45	0.2	5.50	5	377	0.4	5	2.12	0.2	49	28	51	258	6.26	0.68	14	17	2.09	1271	2	0.07	29	0.15	12	167	0.30	193	230	
72	KLP 138 – 2.5 Soil	55	0.2	5.21	2	398	0.4	5	1.77	0.2	49	22	35	292	5.35	0.70	14	14	1.70	932	2	0.07	24	0.11	9	150	0.24	164	123	

.T. o.	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	9309-005 Pg. 7 of 7
'3	KLP 139 – 3.0 Soil	90	0.2	4.73	2	552	0.3	5	1.81	0.2	47	12	30	173	5.37	0.72	14	12	1.64	739	2	0.06	18	0.11	23	171	0.24	161	111	Kli 6
'4	142 – 2.5 Soil	95	0.2	4.97	10	382	0.3	5	1.70	0.2	47	15	29	442	6.32	0.76	14	12	1.31	788	3	0.11	15	0.14	5	129	0.23	166	103	Kli 15
'5	143 – 4.5 Soil	100	0.2	4.64	7	298	0.3	5	2.23	0.3	50	39	35	1864	6.50	0.58	13	14	1.53	1109	3	0.10	21	0.12	3	143	0.28	180	378	
'6	148 – 5.0 Soil	40	0.2	4.67	8	266	0.3	5	2.19	0.2	50	26	36	225	5.92	0.47	13	17	1.69	1360	2	0.17	27	0.09	2	135	0.24	183	94	
7	KLP 149 – 3.0 Soil	700	0.2	5.46	4	301	0.4	5	1.76	0.2	56	36	15	2059	7.96	0.85	17	15	1.72	990	5	0.10	21	0.16	2	158	0.21	187	108	
8	KLP 150 – 2.0 Soil	400	0.2	5.32	5	312	0.4	5	2.03	0.2	51	24	19	563	6.46	0.62	14	14	1.54	878	4	0.11	18	0.13	2	146	0.24	176	102	
9	150 – 4.0 Soil	190	0.2	5.75	9	279	0.5	5	1.69	0.2	51	57	16	1022	7.40	0.76	14	14	1.39	1204	7	0.17	17	0.14	2	129	0.17	172	108	
0	151 – 3.5 Soil	230	0.2	5.02	6	265	0.3	5	2.37	0.3	52	55	36	373	6.45	0.55	14	14	1.45	1446	4	0.11	21	0.12	2	150	0.25	177	164	
:1	152 – 2.5 Rock	120	0.6	4.79	8	507	0.3	5	1.33	0.2	44	18	26	2393	7.83	0.81	14	12	1.37	905	5	0.14	17	0.14	7	134	0.32	170	110	
:2	KLP 153 – 2.0 Soil	45	0.2	4.93	6	588	0.3	5	1.35	0.2	46	7	19	148	6.82	1.19	14	10	1.19	531	5	0.11	14	0.12	5	165	0.28	171	77	
3	KLP 153 – 3.5 Soil	110	0.2	4.92	11	375	0.3	5	1.91	0.2	51	11	26	478	6.57	0.77	15	12	1.40	727	2	0.10	17	0.12	6	155	0.26	171	104	
4	157 – 3.0 Soil	40	0.2	5.60	2	494	0.4	5	1.81	0.2	50	22	29	137	5.56	0.79	14	16	1.62	1184	2	0.11	22	0.12	7	158	0.24	162	98	Kli 6
5	158 – 2.5 Soil	60	0.2	5.50	3	487	0.4	5	1.83	0.2	50	20	27	157	5.72	0.79	14	16	1.80	1102	2	0.11	22	0.12	7	162	0.25	162	101	
6	159 2cm soil	65	0.2	5.31	11	355	0.4	5	2.47	0.2	52	34	29	201	6.33	0.70	14	16	1.68	1457	3	0.11	31	0.12	2	169	0.27	170	114	
7	KLP 160 – 6.0 Soil	30	0.2	5.80	13	461	0.4	5	1.72	0.2	54	37	29	201	5.90	0.64	17	18	2.11	1517	2	0.08	23	0.12	9	176	0.25	158	111	
8	KLP 161 – 4.0 Soil	40	0.2	6.55	2	618	0.4	5	1.64	0.2	49	32	27	147	5.80	0.95	14	18	1.69	1236	1	0.16	25	0.14	5	186	0.22	160	93	
9	162 – 2.0 Soil	35	0.2	6.62	3	729	0.4	5	1.31	0.2	44	19	21	137	5.57	1.03	13	19	1.48	877	1	0.20	19	0.15	7	166	0.21	155	76	Kli 5
0	163 – 4.0 Soil	35	0.2	6.11	3	598	0.4	5	1.72	0.2	50	26	43	158	5.75	0.88	14	18	1.74	1133	1	0.12	29	0.14	2	167	0.23	153	90	
1	164 – 3.0 Soil	30	0.2	5.61	2	556	0.4	5	1.88	0.2	48	27	40	135	5.58	0.89	13	16	1.70	1028	1	0.10	31	0.14	2	164	0.26	161	84	
2	KLP 167 – 1.0 Soil	95	0.2	4.83	13	439	0.4	5	2.35	0.7	54	23	88	165	5.58	0.79	16	17	2.02	1556	2	0.08	55	0.19	11	187	0.31	194	171	Kli 3
3	KLP 211 – 2.5 Soil	170	0.2	7.05	2	576	0.6	5	0.34	0.2	36	35	7	1162	5.90	1.51	22	16	1.29	1707	29	0.37	13	0.15	2	83	0.07	140	119	UTA 6
4	KLP 215 – 2.0 Soil	30	0.2	5.38	7	340	0.4	5	2.04	0.2	48	28	22	187	6.41	0.55	13	14	1.60	1270	3	0.08	34	0.12	2	152	0.29	167	140	Kli 40

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	
48	387 – E	5	0.2	6.13	5	1028	0.3	5	2.91	0.7	68	18	8	55	5.66	1.81	16	25	1.69	1005	1	0.09	9	0.11	3	107	0.08	173	93	
51	4720E–5870N	5	0.2	5.22	16	11	0.4	5	5.40	0.2	73	18	36	4146	5.94	0.05	14	12	1.86	716	1	0.08	23	0.10	3	362	0.52	273	41	
52	KLP 37–1.5 Rx	5	0.2	6.41	2	538	0.6	5	0.10	0.2	20	3	14	135	4.89	2.48	9	12	0.63	99	1	0.16	2	0.09	22	21	0.05	120	92	Kli 8
53	38–1.5 Rx	10	0.2	4.72	10	334	0.3	5	1.50	0.4	53	17	14	187	5.61	0.85	13	23	1.68	819	1	0.07	8	0.09	12	96	0.24	154	246	"
54	40–2.0 [redacted] Rx	5	0.4	6.21	6	597	0.3	5	0.91	0.2	40	6	8	35	4.09	2.36	11	10	1.19	444	1	0.08	4	0.07	2	100	0.25	182	57	Kli 17
55	41–5.5 Rx	60	0.2	4.83	7	406	0.2	5	1.45	0.2	49	10	13	139	4.68	0.97	12	13	1.69	473	6	0.12	5	0.08	2	136	0.22	157	55	
56	42–4.7 Rx	5	0.2	4.01	5	1023	0.6	5	0.57	0.3	54	13	19	263	4.72	1.26	20	12	1.21	1026	1	0.09	7	0.16	2	46	0.05	103	93	
57	43–3.0 Rx	20	0.2	4.39	5	1155	0.6	5	2.34	0.8	69	8	12	322	3.24	1.80	18	11	0.95	966	1	0.09	6	0.12	2	87	0.06	103	79	
58	45–1.5 Rx	150	0.4	3.60	2	288	0.2	5	0.12	0.3	19	8	32	132	14.88	0.83	8	6	0.43	144	40	0.30	2	0.07	2	53	0.05	104	41	
59	[redacted]–3.0	40	0.2	4.63	10	440	0.2	5	0.76	0.4	38	8	14	92	4.88	1.16	10	11	1.44	480	1	0.16	4	0.07	3	80	0.16	148	87	
60	46–6.5 Rx	60	0.2	4.70	6	532	0.3	5	0.25	0.3	32	14	18	374	3.31	1.14	13	17	1.49	546	1	0.21	7	0.09	2	39	0.04	140	94	
61	47–1.6 Rx	40	0.8	5.60	10	270	0.3	5	1.06	0.6	39	5	11	68	6.04	1.31	10	16	1.60	579	2	0.07	5	0.08	2	76	0.26	215	51	
62	50–1.5 Rx	40	0.2	4.69	5	368	0.2	5	0.69	0.7	35	13	24	143	5.65	0.98	11	19	1.66	589	1	0.09	10	0.10	3	68	0.11	124	150	Kli 8
63	51–3.3 Rx	30	0.4	6.81	2	616	0.4	5	0.25	1.4	26	21	34	423	4.90	2.32	9	22	1.49	189	4	0.12	17	0.10	30	22	0.07	157	163	
64	52–4.2 Rx	340	2.4	4.14	18	241	0.3	5	2.04	1.3	51	16	25	1321	7.85	0.49	11	18	1.93	1263	2	0.16	12	0.09	13	136	0.23	159	243	
65	54–4.0 Rx	30	0.8	3.70	18	180	0.7	5	6.86	1.0	67	39	323	117	5.83	1.00	10	23	4.06	2251	2	0.11	88	0.09	6	81	0.04	187	100	
66	55–4.6 Rx	5	0.2	3.85	10	862	0.2	5	1.02	0.8	40	9	14	20	4.76	1.59	11	14	1.91	1447	1	0.10	6	0.07	7	43	0.26	163	153	Kli 10
67	57–1.8 Rx	40	0.8	4.11	19	492	0.2	5	2.23	1.1	56	12	15	80	5.14	0.73	11	12	1.82	1699	1	0.08	7	0.07	10	133	0.30	166	151	
68	[redacted]	30	0.2	5.53	6	481	0.3	5	0.89	3.1	38	19	16	516	5.62	1.30	9	9	1.09	352	2	0.09	8	0.11	4	70	0.18	143	343	
69	66–1.8 Rx	5	0.4	5.35	17	109	0.3	5	5.24	0.5	73	14	16	39	5.02	0.26	12	11	1.22	1295	1	0.07	7	0.10	7	321	0.33	229	53	
70	68–0.5 Rx	5	0.2	6.53	13	421	0.3	5	3.97	1.1	64	20	12	48	5.36	1.19	12	15	1.88	1002	1	0.13	12	0.09	3	176	0.33	175	84	KC 1
71	69–2.5 Rx	5	0.2	4.96	23	158	0.3	5	3.22	1.1	65	28	14	18	7.05	0.33	15	21	2.85	1202	1	0.09	8	0.08	5	130	0.42	283	88	KC 1
72	70–3.8 Rx	5	0.2	4.78	16	295	0.3	5	3.75	0.8	66	28	12	12	6.89	0.56	13	16	2.60	1283	1	0.10	9	0.08	5	154	0.39	270	91	
73	72–2.8 Soil	10	0.4	5.71	26	871	0.3	5	1.80	0.6	53	24	24	24	5.88	2.07	11	13	1.30	666	3	0.08	14	0.09	214	115	0.33	212	97	
74	73–2.6 Rx	5	0.2	5.21	21	393	0.3	5	3.79	0.9	68	12	12	28	5.50	0.50	14	14	1.97	1506	1	0.08	8	0.10	23	210	0.39	185	151	Kli 25
75	74–4.6 Rx	5	0.2	5.09	30	1102	0.4	5	3.29	1.1	71	21	22	35	6.42	1.16	15	16	2.22	3304	3	0.13	10	0.11	33	194	0.40	200	230	Kli 25
76	75–3.0 Rx	5	0.2	3.79	20	737	0.3	5	1.70	1.5	56	21	20	43	5.98	0.75	14	22	2.33	2575	1	0.08	9	0.08	14	124	0.37	187	216	Carb 2
77	76–0.7	5	3.2	0.68	3	1246	0.2	5	0.06	0.2	6	7	231	19	1.48	0.25	2	4	0.20	246	14	0.02	16	0.02	44	21	0.02	22	28	"
78	Rx 76–0.7 B	10	0.2	4.66	19	1504	0.4	5	1.06	1.3	48	16	18	20	4.99	1.34	12	27	1.98	1813	1	0.10	11	0.08	18	41	0.05	168	275	"
79	77–2.8 Rx	5	0.2	3.31	19	332	0.2	5	5.01	1.8	71	14	36	72	3.97	0.34	11	28	1.27	1797	1	0.07	9	0.06	33	147	0.11	146	205	"
80	78–4.2 Rx	5	0.2	5.74	28	634	0.5	5	2.06	0.8	56	21	16	40	5.08	2.00	11	24	1.74	1349	1	0.08	10	0.08	7	28	0.05	179	119	"
81	80–0.6 Rx	5	0.4	4.61	9	415	0.3	5	1.22	1.3	48	23	97	112	5.13	1.01	13	17	2.66	1544	2	0.06	56	0.09	8	128	0.31	166	234	"
82	81–4.0 Rx	140	0.2	3.89	10	761	0.3	5	2.59	1.1	58	13	16	49	5.58	0.53	12	17	1.79	1442	6	0.08	8	0.07	12	166	0.29	158	156	Kli 25
83	KLP 82–3.6 Rx	5	0.2	3.59	21	768	0.2	5	2.34	0.7	60	18	15	15	5.35	0.76	12	11	2.00	1382	1	0.08	8	0.08	5	125	0.40	190	137	Kli 25
84	KLP83 381–U	60	0.4	4.90	5	789	0.3	5	0.53	0.4	31	18	11	26	5.52	1.33	11	31	2.58	1474	1	0.08	9	0.07	6	27	0.11	188	176	
85	V (chips)	1100	2.4	2.54	8	563	0.2	5	0.07	0.3	15	12	40	19	4.85	0.88	6	8	0.95	1009	13	0.07	5	0.05	4	4	0.04	108	70	
86	381 – W	490	2.0	4.54	3	1092	0.3	5	0.06	0.8	14	10	22	101	4.69	1.90	7	11	1.23	627	38	0.06	6	0.06	10	7	0.07	146	90	
87	382 – A	5	0.2	4.60	11	590	0.3	5	0.65	0.8	33	18	10	107	5.80	0.94	11	25	2.34	1421	1	0.07	8	0.07	3	42	0.08	172	206	
88	B	20	0.2	4.44	8	604	0.4	5	0.49	0.7	36	22	42	41	5.53	1.12	13	22	2.43	1540	2	0.05	20	0.12	6	14	0.06	135	238	
89	C	220	0.4	3.16	7	392	0.3	5	0.43	1.0	31	11	42	38	3.24	1.05	12	13	1.32	1412	67	0.06	10	0.08	12	15	0.04	107	123	
90	D (chips)	180	0.4	1.69	5	243	0.2	5	0.05	0.3	11	6	91	76	2.73	0.59	5	6	0.46	427	107	0.06	4	0.04	5	3	0.02	65	58	
91	E	30	0.8	3.35	8	311	0.3	5	0.37	0.6	30	18	13	132	6.55	0.46	12	23	2.44	1738	3	0.08	8	0.09	18	13	0.07	195	184	
92	G	20	0.4	4.34	2	223	0.3	5	1.77	0.2	53	8	22	83	3.56	0.43	12	14	1.47	294	1	0.19	5	0.08	2	151	0.04	115	49	
93	I	1200	3.6	0.29	3	25	0.2	5	0.03	0.2	5	1	160	481	0.84	0.09	1	1	0.05	62	2	0.02	3	0.01	2	3	0.01	11	4	
94	[redacted] 382–J	20	0.2	2.68	9	447	0.3	5	2.36	0.2	57	12	37	29	3.03	0.72	11	8	1.25	504	1	0.08	13	0.07	2	52	0.20	83	59	

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	
95	KLP 93–3.0 Rx	10	0.2	2.76	2	375	0.2	5	0.47	0.3	33	3	37	124	1.84	0.70	9	7	0.71	133	3	0.17	3	0.08	2	44	0.07	54	24	Kli 19
96	94–1.5 Rx	20	0.2	4.11	2	549	0.3	5	0.35	0.4	36	5	15	162	3.46	1.28	13	13	1.18	412	1	0.10	3	0.11	2	39	0.06	83	168	
97	95–3.2 Rx	50	0.8	3.96	5	382	0.3	5	0.74	0.2	50	10	15	475	4.73	0.90	16	21	1.15	440	1	0.12	4	0.13	2	39	0.04	92	77	
98	96–2.5 Rx	500	1.4	4.25	2	258	0.2	5	1.68	0.5	60	10	13	1453	3.76	0.83	14	13	1.45	444	6	0.09	6	0.12	2	123	0.19	91	54	
101	97–2.5 Rx	5	0.2	3.88	10	1161	0.7	5	1.63	0.9	72	13	24	149	4.33	1.04	23	14	1.07	924	1	0.09	8	0.15	4	316	0.23	106	103	
102	99–3.0 Rx	10	0.2	5.00	8	142	0.2	5	3.30	0.3	66	20	24	88	5.63	0.53	13	11	1.88	1098	1	0.16	13	0.09	2	167	0.23	179	72	
103	[redacted]382H	60	0.2	1.12	2	311	0.2	5	0.25	1.0	22	5	32	41	1.45	0.47	7	2	0.09	488	1	0.14	5	0.11	2	9	0.03	42	103	Kli 10
104	101–2.0 Rx	30	0.2	4.47	2	1181	0.4	5	0.67	0.5	40	8	17	87	4.55	1.63	12	13	1.41	481	1	0.09	7	0.09	2	65	0.22	112	193	
105	105–3.0 Rx	5	0.2	4.79	15	79	0.4	5	7.33	0.4	76	31	96	117	6.05	0.13	12	23	3.69	1354	1	0.04	39	0.12	3	118	0.18	211	86	
106	106–1.5 Rx	20	0.2	5.06	16	500	0.3	5	2.97	0.6	60	25	12	27	6.24	0.74	12	19	2.81	1769	1	0.10	11	0.07	6	151	0.41	240	146	
107	107–1.8 Rx	5	0.2	6.08	10	330	0.3	5	3.31	0.7	61	21	9	11	5.58	1.20	11	20	2.35	2078	1	0.14	10	0.07	15	93	0.33	183	115	
108	108–2.2 Rx	5	0.2	5.32	17	130	0.3	5	3.48	0.6	60	22	25	34	5.66	0.21	12	24	2.97	2243	1	0.08	12	0.07	12	208	0.26	197	129	
109	110–2.0 Rx	10	0.2	4.32	10	309	0.3	5	3.01	0.6	57	15	37	92	4.23	0.34	12	11	1.76	790	1	0.09	24	0.08	3	219	0.22	133	56	
110	111–6.0 Rx	30	0.2	4.53	5	693	0.2	5	0.77	1.0	38	14	11	67	2.77	0.77	12	20	2.62	1542	1	0.11	9	0.10	8	44	0.19	166	115	Kli 8
111	112–1.5 Rx	420	2.4	4.01	2	701	0.4	5	0.45	0.9	25	19	76	946	8.08	0.76	11	20	2.49	1598	2	0.06	27	0.09	7	32	0.27	149	288	
112	113–2.5 Rx	70	1.2	5.30	9	362	0.3	5	2.70	0.9	59	12	12	247	6.04	1.23	13	15	1.79	1783	2	0.08	8	0.10	18	140	0.32	181	251	
113	115–0.3 Rx	5	0.2	3.57	2	80	0.2	5	0.59	0.3	35	9	26	170	4.36	0.32	12	20	2.07	373	1	0.16	4	0.09	2	57	0.05	138	38	Kli 17
114	116–1.5 Rx	40	0.4	5.33	2	796	0.2	5	0.45	0.2	30	5	12	80	5.32	1.44	12	14	1.72	360	7	0.09	4	0.05	2	50	0.09	212	54	
115	118–2.0 Rx	390	1.6	0.14	2	49	0.2	5	0.03	0.3	5	2	266	86	1.52	0.03	2	1	0.03	65	90	0.02	3	0.01	2	3	0.01	11	5	
116	118–5.5 Rx	70	0.2	5.41	2	288	0.3	5	2.91	0.8	62	11	14	179	5.73	0.69	13	13	1.80	765	3	0.07	6	0.11	2	249	0.28	190	79	
117	119–5.6 Rx	5	0.2	3.15	9	156	0.2	5	1.99	0.2	57	6	29	48	2.98	0.24	14	11	1.00	537	2	0.13	6	0.08	2	136	0.10	70	39	
118	143–4.6 Rx	5	0.2	4.64	7	270	0.3	5	2.39	1.0	58	13	35	271	5.20	0.59	12	14	1.91	961	1	0.12	17	0.10	3	148	0.27	154	148	Kli 15
119	144–2.0 Rx	210	2.0	5.57	2	571	0.3	5	0.59	0.2	31	22	12	2017	6.00	1.35	11	19	1.97	1720	1	0.07	6	0.08	4	37	0.08	154	176	
120	145–2.4 Rx	160	0.2	3.00	2	280	0.2	5	0.32	0.2	31	13	16	128	8.28	0.81	12	8	0.64	382	1	0.10	4	0.08	2	48	0.05	173	55	
121	146–4.7 Rx	50	0.4	5.50	16	391	0.3	5	1.07	0.5	43	14	12	223	5.42	1.52	12	11	1.11	631	2	0.11	6	0.09	2	77	0.10	151	58	
122	147–4.0 Rx	5	0.4	4.71	10	850	0.7	5	1.10	0.6	67	23	27	1695	4.32	1.18	25	14	1.44	1017	1	0.10	19	0.15	4	49	0.06	124	83	
123	147–5.7 Rx	5	0.2	4.30	15	1090	0.6	5	2.01	0.8	81	15	27	190	4.35	1.14	24	12	1.53	915	1	0.09	22	0.14	7	192	0.28	132	85	
124	149–6.0 Rx	40	0.2	5.12	19	101	0.3	5	3.71	0.9	75	17	45	652	5.95	0.19	16	11	2.09	868	1	0.08	24	0.10	7	233	0.25	200	80	
125	149–6.5 Rx	5	0.2	5.73	19	185	0.3	5	3.60	1.3	76	16	15	493	7.12	0.25	17	17	1.96	706	1	0.08	7	0.11	9	200	0.12	181	61	
126	150–4.5 Rx	70	0.2	6.56	14	401	0.3	8	1.20	0.7	55	20	19	301	5.83	1.27	14	17	1.95	593	1	0.26	12	0.10	14	93	0.09	186	80	
127	152–2.4 soil	120	0.2	3.30	12	355	0.3	10	0.68	1.2	45	13	37	1120	10.90	0.80	13	15	1.08	684	1	0.09	7	0.10	6	41	0.14	128	252	
128	153–3.4 Rx	2700	7.2	0.46	5	50	0.2	20	0.04	1.4	18	23	135	8948	20.12	0.13	9	3	0.17	232	6	0.03	7	0.06	5	4	0.01	73	92	
130	154–1.0 Rx	260	2.0	3.21	13	383	0.2	5	0.84	0.8	40	8	31	168	5.00	1.03	12	9	1.21	601	1	0.09	7	0.11	57	63	0.22	93	235	Kli 6
131	155–0.3 Rx	5	0.2	4.57	2	602	0.4	5	0.18	0.2	19	4	29	42	3.39	1.84	8	9	0.84	187	7	0.08	8	0.05	6	22	0.16	104	95	
132	156–5.8 Rx	100	9.2	6.26	3	2115	0.5	5	0.10	21.0	26	4	22	226	3.34	2.58	11	7	0.35	195	2	0.16	5	0.11	1525	21	0.07	119	2435	
133	165–1.5 Rx	5	0.2	6.30	2	507	0.4	5	1.38	0.2	54	16	36	71	5.07	0.46	13	21	2.90	822	1	0.09	30	0.10	9	284	0.21	170	87	Kli 3
134	166 Rx	5	0.2	5.23	2	409	0.3	5	1.79	0.4	59	20	38	74	5.57	0.43	13	18	2.49	1023	1	0.26	27	0.10	6	343	0.21	142	221	"
135	168–0.5 Rx	5	0.2	7.59	2	804	0.4	5	0.93	0.2	49	9	8	41	5.44	1.65	13	21	2.20	1154	1	0.09	7	0.10	7	182	0.29	159	121	Kli 1
136	169–1.0 Rx	5	0.2	4.59	12	414	0.3	5	2.08	0.4	68	14	17	35	4.93	0.53	15	16	1.71	1253	2	0.12	7	0.09	11	151	0.20	140	90	
137	170–0.5 Rx	5	0.2	3.37	7	274	0.2	5	1.63	0.5	57	14	17	20	4.68	0.59	14	13	1.62	1279	1	0.16	7	0.08	5	116	0.25	132	75	
138	171–0.5 Rx	5	0.2	3.94	12	208	0.2	5	2.56	0.2	64	11	15	85	5.51	0.61	14	12	1.78	1043	3	0.15	6	0.11	4	138	0.37	265	67	Kli 18
139	172–0.3 Rx	5	0.2	3.74	6	305	0.2	5	1.69	0.3	55	10	21	101	5.40	1.10	13	13	1.92	1135	3	0.12	10	0.09	6	73	0.36	164	62	
140	KLP173 383–1	480	0.4	1.74	4	246	0.2	5	0.22	0.2	22	8	20	26	4.08	0.62	9	6	0.90	1037	1	0.10	4	0.07	3	20	0.19	121	24	
141	J	790	1.6	0.88	7	81	0.2	5	0.10	0.2	16	9	29	16	3.38	0.18	8	4	0.61	1132	5	0.12	4	0.05	2	7	0.10	53	16	
142	KLP173 383–K	570	0.8	1.19	2	87	0.2	5	0.28	0.2	21	5	16	15	4.86	0.23	8	4	0.94	995	8	0.12	2	0.09	2	16	0.16	107	25	

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	Cs 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	Notes
143	KLP173 383–L	70	0.2	2.71	6	228	0.2	5	0.93	0.2	38	4	14	28	5.48	0.75	10	8	1.49	936	1	0.15	5	0.09	2	48	0.32	447	54	Kli 48
144	KLP174 383–N	60	0.2	3.62	3	257	0.2	5	1.74	0.2	50	7	17	43	4.71	0.92	10	10	1.25	819	1	0.10	7	0.11	4	125	0.32	184	54	Kli 48
145	O	80	0.2	2.69	5	278	0.2	5	1.10	0.2	44	6	20	51	4.41	1.09	11	10	1.05	728	2	0.12	4	0.11	2	58	0.32	164	56	
146	P	13000	15.2	0.47	3	33	0.2	5	0.13	0.3	17	3	99	19	3.42	0.10	5	2	0.23	294	9	0.11	2	0.06	2	9	0.08	32	11	
147	Q	3800	5.2	1.42	3	148	0.2	5	0.31	0.2	23	3	72	33	4.04	0.40	8	3	0.47	336	18	0.08	3	0.06	6	6	0.09	109	14	
148	R	510	0.4	1.82	8	207	0.2	5	0.72	0.5	38	2	18	27	5.04	0.57	10	7	1.15	639	1	0.12	3	0.09	2	45	0.31	121	36	
151	KLP175 383–T	500	0.8	2.24	6	217	0.2	5	0.67	0.2	34	10	32	83	5.67	0.48	10	8	1.12	750	30	0.09	5	0.07	8	55	0.20	133	40	Yol 11
152	176–4.0	260	2.0	4.29	2	341	0.2	5	0.90	0.2	42	18	16	1105	6.16	1.04	11	10	1.25	711	5	0.09	7	0.09	2	95	0.22	160	86	Kli 15
153	177–383V	7900	14.0	1.86	11	362	0.3	5	9.97	0.2	78	8	45	61	3.61	0.88	8	5	0.30	2094	4	0.04	6	0.05	2	159	0.03	118	22	Yol 11
154	177–383W	700	2.0	2.73	4	329	0.3	5	4.55	0.2	69	11	18	71	3.77	1.23	10	5	0.34	1139	2	0.09	7	0.12	2	17	0.04	137	54	
155	190–6.0m	20	0.2	5.13	2	164	0.3	5	3.49	0.6	64	26	34	79	5.79	0.41	11	14	1.83	1077	1	0.29	19	0.11	2	247	0.33	184	89	UTA 6
156	191–3.5m	50	0.4	7.30	4	609	0.3	5	1.14	0.3	46	7	8	73	5.61	2.05	11	10	1.91	927	3	0.10	6	0.09	2	65	0.25	174	138	
157	192–2.0m	20	0.8	5.24	15	865	0.3	5	1.34	0.7	48	18	33	114	6.81	1.23	11	9	1.64	619	6	0.20	11	0.09	74	97	0.21	147	203	
158	193–1.0m	40	0.2	3.36	10	142	0.2	5	1.23	0.4	41	14	24	28	5.81	0.21	10	13	2.20	827	1	0.14	9	0.08	3	76	0.30	185	79	
159	194–1.5m	20	0.4	5.46	6	428	0.3	5	2.49	1.1	58	14	9	46	4.93	0.99	13	18	1.58	1638	1	0.20	6	0.09	11	95	0.07	147	330	
160	195–1.0m	5	0.2	5.41	10	352	0.3	5	0.99	0.3	40	18	16	49	5.23	0.41	10	31	1.68	1281	3	0.42	6	0.08	19	107	0.05	147	236	
161	196	5	0.2	5.94	2	821	0.3	5	0.59	0.2	33	14	13	40	5.44	1.18	11	39	1.66	1091	1	0.30	4	0.11	2	52	0.08	139	236	
162	197–5.5m	5	0.2	4.94	2	217	0.2	5	2.48	0.2	62	15	21	61	5.70	0.78	12	24	1.58	1416	1	0.13	6	0.09	2	69	0.33	148	106	
163	198–4.0m	10	0.2	6.60	2	601	0.5	5	3.25	0.2	63	14	14	119	5.25	1.57	12	28	1.41	1094	1	0.44	7	0.09	2	68	0.07	137	116	UTA 8
164	199–3.0m	10	0.2	6.56	2	337	0.4	5	2.30	0.2	61	19	24	65	6.07	1.34	13	26	2.00	1507	1	0.14	10	0.10	23	65	0.29	173	142	
165	200	340	1.2	4.16	2	354	0.3	5	0.43	0.2	35	7	35	89	6.08	1.20	10	28	1.32	373	4	0.20	5	0.07	19	13	0.10	161	177	
166	201–2.0m	40	0.2	1.73	12	195	0.3	5	4.62	0.2	60	19	36	29	2.63	0.55	11	13	1.32	1457	3	0.13	15	0.07	2	36	0.03	61	105	
167	202	5	0.2	6.20	3	569	0.4	5	2.04	0.2	58	12	10	21	4.35	1.06	13	34	0.87	1244	1	0.68	6	0.09	2	111	0.06	120	163	
168	203–2.0m	10	0.2	5.70	2	1959	0.4	5	0.12	0.2	26	41	14	125	4.20	1.24	12	30	1.04	2322	1	0.20	9	0.06	2	35	0.05	95	223	
169	204	210	0.2	7.47	2	405	0.4	5	0.06	0.2	26	2	13	138	6.78	1.69	13	37	1.20	323	24	0.49	2	0.13	3	64	0.05	152	176	
170	205–2.0m	90	0.2	3.20	2	1442	0.5	5	2.26	0.2	54	14	36	52	3.49	1.19	13	15	0.43	894	2	0.11	7	0.08	2	27	0.03	88	119	
171	206	50	0.2	6.26	2	534	0.4	5	0.05	0.2	20	9	12	330	6.50	1.70	11	42	1.56	243	3	0.25	4	0.10	2	32	0.05	190	319	
172	207	5	0.2	3.30	2	692	0.5	5	0.71	1.7	41	25	27	3821	3.19	0.93	12	14	0.67	823	1	0.18	10	0.09	2	32	0.05	92	177	
173	208	20	0.2	6.56	2	291	0.4	5	0.03	0.2	24	3	12	356	6.35	0.97	11	32	1.27	239	1	0.72	2	0.08	4	83	0.07	148	186	
174	209–0.5	5	0.2	6.17	11	378	0.4	5	1.48	0.3	55	19	10	393	5.89	0.64	13	35	2.14	1746	1	0.31	9	0.09	4	139	0.08	151	179	UTA 6
175	210	5	0.2	4.30	10	572	0.4	5	2.13	0.2	72	13	51	42	4.63	0.65	18	42	2.02	812	3	0.21	13	0.10	5	69	0.08	131	111	
176	211–0.5	10	0.2	5.58	10	40	0.3	5	3.65	0.2	74	46	55	636	8.52	0.12	15	15	2.76	1729	6	0.06	40	0.09	8	339	0.24	209	79	
177	212–1.5	5	0.2	2.16	26	985	0.7	5	4.72	0.2	83	29	453	59	4.50	0.58	18	30	5.12	1359	2	0.05	301	0.17	10	184	0.07	91	78	
178	213–1.0	5	0.2	3.98	16	672	0.3	5	2.38	0.2	72	15	22	69	5.30	0.98	15	13	1.80	1426	3	0.12	7	0.11	6	154	0.36	140	169	Kli 47
179	214–2.5	5	0.2	0.93	5	324	0.2	5	0.39	0.2	50	3	44	12	0.97	0.33	19	6	0.23	109	2	0.14	4	0.02	2	37	0.09	20	27	Kli 40
180	215–2.5	5	0.2	4.30	12	422	0.2	5	1.42	0.2	47	11	24	70	4.28	0.67	11	14	1.37	618	8	0.09	7	0.07	2	108	0.40	122	74	
181	219	5	0.2	5.55	2	52	0.4	5	3.50	0.3	63	21	43	87	6.30	0.12	13	16	2.29	1256	2	0.07	24	0.08	2	114	0.47	223	64	Kli 39
182	220–4.0	5	0.2	4.32	2	69	0.2	5	4.11	0.3	62	15	43	188	5.13	0.24	10	13	1.88	1073	1	0.08	26	0.07	2	98	0.38	189	70	Kli 12
183	221–3.5	5	0.2	5.20	3	245	0.3	5	3.38	0.3	68	19	22	97	6.07	0.47	14	18	1.87	925	2	0.07	15	0.09	2	136	0.42	178	104	
184	222	5	2.6	4.72	8	284	0.3	5	2.58	6.1	61	14	41	110	4.86	0.63	12	14	1.65	945	2	0.14	17	0.08	477	138	0.30	172	814	
185	223	5	0.2	4.60	6	266	0.3	5	3.38	0.3	64	15	38	75	5.20	0.59	12	15	1.79	874	1	0.12	19	0.08	2	138	0.27	168	86	
186	224–3.5	5	0.2	6.32	43	189	0.3	5	3.79	0.4	68	26	19	181	6.20	1.05	13	12	2.47	824	1	0.15	11	0.10	2	133	0.28	202	64	
187	225–4.5	30	0.2	7.07	2	372	0.3	5	0.31	0.3	23	12	8	131	5.69	1.83	9	16	2.27	387	15	0.16	4	0.05	2	44	0.08	195	43	Kli 15
188	226–2.5	20	0.2	6.27	2	766	0.4	5	2.31	0.3	68	12	13	1491	4.36	1.54	17	12	1.39	1110	1	0.10	7	0.11	2	137	0.20	132	98	
189	KLP 227–5.0	110	0.4	5.29	2	661	0.5	5	1.20	0.6	62	12	18	552	4.09	1.48	19	11	1.32	770	1	0.10	8	0.14	2	138	0.18	117	71	

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	
190	KLP 228-7.0 Rx	5	0.2	4.00	2	818	0.6	5	2.26	0.3	80	8	24	36	4.27	1.02	20	10	1.00	1023	1	0.08	7	0.15	3	547	0.32	111	88	K(1,17)
191	229-5.0 Rx	5	0.8	4.75	7	502	0.4	5	2.12	0.8	66	12	23	101	3.62	1.14	18	14	1.25	809	1	0.11	8	0.10	2	128	0.26	112	72	
192	KLP 230-5.0 Rx	50	0.2	5.51	5	255	0.3	5	1.47	0.2	54	21	10	286	6.41	0.94	14	25	1.60	1016	1	0.10	6	0.09	2	108	0.11	182	97	

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** JN/SB **Date received:** SEP. 07 **LAB CODE:** 9309–009
Material: 14 Soils & 60 Rx **Sheet:** 1 of 1 **Date completed:** SEP. 16
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 Soils	KLP 233 – 5.5 B	80	0.2	4.75	9	444	0.4	5	1.11	0.2	41	166	24	151	14.00	0.77	14	18	1.08	2644	3	0.10	27	0.24	4	128	0.16	120	201	Kl 26
4	247 – 2.5 B	75	0.2	6.45	14	516	0.4	5	1.16	0.2	42	26	19	203	7.92	0.94	12	17	1.62	1036	2	0.16	15	0.16	3	122	0.27	162	105	So 7
5	247 – 6.0 A	80	0.4	6.01	12	621	0.4	5	2.92	0.4	47	25	11	199	4.72	1.22	13	20	1.81	1072	2	0.23	16	0.08	12	134	0.12	132	128	So 7 DARB
6	248 – 4.5 B	70	0.2	6.05	17	537	0.4	5	1.28	0.2	44	10	22	95	7.60	1.07	12	15	1.77	727	2	0.14	16	0.16	9	126	0.30	185	95	So 7
7	KLP 248 – 6.5 A	65	0.2	6.25	12	638	0.5	5	1.49	0.2	50	30	13	230	4.51	1.14	14	19	1.82	650	2	0.21	22	0.09	6	129	0.14	123	128	So 7
8	KLP 251 – 3.0 B	120	0.2	7.18	17	765	0.6	5	0.13	0.2	30	26	6	250	9.46	1.93	16	13	0.99	1278	3	0.17	10	0.23	11	73	0.09	141	380	Kl 26
9	252 – 5.5 B	190	0.4	7.41	20	890	0.6	5	0.14	0.5	32	28	10	226	9.66	2.00	17	15	1.16	1391	3	0.20	15	0.25	21	77	0.12	149	303	Kl 26
10	255 – 5.5 B	50	0.2	7.15	16	639	0.4	5	0.27	0.2	24	5	11	183	11.42	2.01	11	11	1.41	513	4	0.23	8	0.15	5	73	0.17	199	125	KC 1
11	256 – 5.0 B	150	0.4	6.87	28	493	0.4	5	0.45	0.8	31	12	12	123	8.81	1.42	12	12	1.03	600	7	0.22	11	0.26	14	87	0.18	179	123	KC 1
12	KLP 257 – 5.0 B	100	0.2	6.99	28	654	0.4	5	0.28	0.3	29	6	8	84	8.10	1.78	12	11	1.09	420	5	0.27	9	0.22	12	89	0.13	180	111	KC 1
13	263 – 6.5 A	35	0.2	4.18	24	220	0.3	5	4.06	0.5	52	20	24	169	4.86	0.42	14	13	1.70	934	1	0.11	26	0.10	8	222	0.32	177	83	KC 1
14	264 – 5.0	20	0.2	5.26	23	288	0.3	5	3.64	0.8	51	27	15	256	5.49	0.52	12	15	2.05	951	1	0.13	27	0.11	9	325	0.36	195	103	KC 1
15	273 – 6.0	15	0.2	4.41	21	284	0.4	5	2.64	0.7	56	26	20	173	6.04	0.69	15	17	2.75	994	1	0.06	27	0.13	6	198	0.44	259	67	KC 1
16	KLP 278 – 3.5	60	0.2	5.12	25	326	0.4	5	2.41	0.9	53	41	23	368	6.24	0.55	13	15	2.20	1272	1	0.10	32	0.12	9	189	0.33	201	98	KC 1

279 – MISSING.

21/09 Yave o/f

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** JN/SB **Date received:** SEP. 07 **LAB CODE:** 9309–009
Material: 60 Rx **Sheet:** 1 of 2 **Date completed:** SEP. 20
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.

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	
KLP 216–4.0 Rx	5	0.4	4.45	18	312	0.2	5	1.62	0.4	60	13	24	83	6.32	0.74	14	13	1.19	652	48	0.08	18	0.09	2	198	0.57	220	91	Kli 40
KLP 217–4.0 Rx	5	0.2	5.22	4	380	0.3	5	3.52	0.4	76	18	32	87	5.17	0.53	13	9	0.91	1047	4	0.07	24	0.09	3	251	0.53	226	75	Kli 39
218 5.5 Rx	5	0.2	5.32	6	370	0.2	5	2.50	0.2	70	24	73	72	5.99	1.04	14	16	1.74	945	21	0.09	52	0.07	2	77	0.45	189	89	Kli 39
231–1.5 Rx	60	0.4	5.05	2	660	0.4	5	0.99	0.2	53	11	17	198	5.31	0.85	16	25	1.81	710	1	0.35	7	0.09	2	60	0.06	106	71	Kli 26
232–2.5 "	40	0.2	6.37	2	1080	0.5	5	0.26	0.2	37	18	16	79	6.71	1.52	14	33	1.51	241	1	0.39	8	0.11	6	34	0.07	172	53	Kli 26
234–2.0 "	5	0.2	4.73	9	136	0.2	5	2.55	0.2	66	25	16	41	8.21	0.36	15	12	2.23	1306	1	0.11	8	0.08	2	123	0.34	285	68	Kli 26
235–2.5 "	10	0.2	6.31	8	185	0.6	5	2.06	0.9	62	25	29	97	6.84	0.85	15	24	2.43	1463	1	0.12	20	0.12	5	157	0.13	209	162	↓
236–2.5 "	30	0.2	6.65	2	351	0.4	5	0.08	0.3	21	10	10	63	6.77	0.80	11	26	2.04	613	1	0.49	3	0.11	2	76	0.06	179	90	
237 1.5 Rx	50	0.2	8.46	2	877	0.5	5	0.09	0.2	22	9	13	68	6.22	2.16	12	14	2.07	374	1	0.48	5	0.10	2	80	0.06	207	107	
238–1.5 "	20	0.2	4.76	11	870	0.7	5	1.27	0.6	71	21	17	35	5.66	0.98	22	15	1.04	1127	1	0.25	11	0.15	3	235	0.07	117	162	
243 1.5 m/s	20	0.2	5.74	3	517	0.4	5	1.15	0.4	59	47	18	674	5.71	0.80	16	26	1.62	2848	1	0.30	19	0.10	4	144	0.06	94	78	Jo 7 (Darb)
244 3.0 "	5	0.2	1.75	33	109	0.7	5	3.85	1.5	79	59	903	42	6.15	0.80	19	17	10.41	1058	1	0.03	535	0.23	2	194	0.11	58	51	Jo 7 "
245 1.0 "	5	0.2	5.24	10	146	0.3	5	3.79	0.6	85	19	20	53	5.75	0.29	18	18	2.09	1058	1	0.11	10	0.13	4	328	0.39	191	65	"
246–1.1 "	10	0.2	3.20	13	361	0.2	5	0.78	0.3	41	55	41	64	6.19	0.65	10	10	0.84	500	3	0.20	9	0.07	2	82	0.09	80	77	↓ "
249–1.5 "	5	0.4	5.49	8	782	0.3	5	2.17	0.2	54	11	16	68	5.66	0.75	15	10	1.47	630	1	0.12	9	0.10	4	145	0.25	136	65	Kli 26
250–1.0 Rx	5	0.4	6.57	9	330	0.4	5	0.22	0.8	73	3	14	13	2.04	0.84	18	16	2.52	257	1	0.65	6	0.05	6	100	0.11	154	51	Kli 26
253–4.5 "	5	0.2	5.74	5	101	0.4	5	3.04	0.2	78	27	90	95	6.43	0.26	14	20	2.99	1015	1	0.05	68	0.07	2	146	0.45	212	95	Jo 7
254–~~4.5~~ 5.0 Rx	5	0.4	5.96	12	92	0.3	5	3.56	0.2	33	14	13	70	5.93	0.37	13	13	2.28	1075	1	0.11	6	0.05	5	234	0.33	176	119	Jo 7
258–4.5 "	5	0.2	4.60	2	244	0.3	5	3.24	0.2	59	19	16	56	6.59	0.26	14	16	2.35	1738	1	0.09	9	0.13	2	213	0.41	231	185	Kli 27
259–1.5 "	5	0.4	6.34	2	134	0.3	5	4.99	0.2	36	21	16	67	5.93	0.32	15	17	2.29	1532	1	0.09	13	0.09	4	288	0.35	199	81	Kli 27
260–4.0 "	5	0.2	4.50	2	721	0.6	5	2.44	0.2	74	12	25	27	3.99	1.30	20	22	1.26	764	1	0.09	17	0.12	5	220	0.11	103	66	Kli 27
261–3.0 "	5	0.2	4.85	2	975	0.7	5	2.54	0.2	96	8	17	10	3.78	1.79	32	12	0.98	848	1	0.10	12	0.12	4	435	0.23	98	89	Kli
262–4.5 "	5	0.8	9.22	2	760	0.5	5	3.09	1.0	69	25	7	59	6.84	2.67	14	40	2.82	3339	1	0.09	7	0.10	71	45	0.51	288	410	"
265–3.0 "	5	0.2	4.80	2	287	0.2	5	4.23	0.2	75	14	21	187	5.44	0.43	13	10	1.80	785	2	0.18	13	0.13	2	238	0.43	219	41	Kc1
266–3.5 "	5	0.2	5.10	6	197	0.3	5	4.85	0.2	74	16	32	95	5.16	0.53	11	10	1.62	751	1	0.17	18	0.11	2	218	0.43	238	39	Kc1
267–2.5 "	5	0.2	4.36	2	203	0.3	5	3.99	0.3	69	19	34	100	5.73	0.45	13	11	2.20	906	1	0.23	21	0.11	2	170	0.47	223	52	Kc1
268–4.5 "	5	0.2	4.00	14	195	0.4	5	3.90	0.5	72	21	33	81	5.28	0.50	14	12	1.84	822	1	0.19	19	0.10	3	207	0.43	230	46	Kc1
269–0.5 "	5	0.2	3.96	13	205	0.3	5	4.29	0.2	71	24	78	99	5.86	0.44	13	11	2.71	872	1	0.25	36	0.08	2	163	0.43	216	47	Kc1
270–4.0 "	5	0.2	4.53	20	176	0.2	5	4.27	0.2	69	21	35	102	5.47	0.54	11	13	2.19	769	1	0.16	28	0.07	2	173	0.43	220	45	Kc1
271–5.5 "	5	0.2	4.90	9	240	0.3	5	4.98	0.6	80	22	36	118	6.45	0.66	14	11	2.38	941	1	0.21	28	0.09	2	182	0.52	268	49	Kc1
272–5.0 "	5	0.2	4.19	10	199	0.3	5	3.39	0.3	70	23	101	85	6.05	0.53	14	14	2.99	789	1	0.15	96	0.11	3	156	0.45	239	47	Kc1
274–5.0 "	5	0.4	4.07	10	187	0.3	5	3.73	0.3	80	16	21	30	4.87	0.75	15	9	1.53	494	1	0.11	15	0.13	2	311	0.41	237	25	↓
275–2.0 "	5	0.2	3.40	21	121	0.3	5	3.44	1.0	73	32	40	201	6.21	0.55	15	12	2.35	608	2	0.17	35	0.09	3	111	0.44	205	34	
276–1.0 Rx	5	0.2	3.95	13	83	0.2	5	3.99	0.3	73	43	25	366	6.08	0.26	13	8	1.57	569	6	0.18	14	0.09	2	158	0.42	216	29	
276–7.0 Δ Rx	5	0.2	2.72	13	214	0.2	5	2.33	0.2	65	16	38	171	5.17	0.56	14	10	1.77	604	1	0.13	21	0.09	2	166	0.44	215	33	↓

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	0300-000 Pg. 2 of 2
	276–7.0 B	RX	5	0.4	3.67	7	692	0.3	5	2.49	0.2	72	11	33	52	3.41	1.18	16	8	1.18	619	2	0.10	12	0.09	2	293	0.23	129	35	KC1
	277–6.0	"	5	0.2	4.02	17	200	0.4	5	7.89	0.2	89	18	17	20	5.30	0.88	16	19	2.24	2057	1	0.07	14	0.08	2	104	0.28	208	68	"
	279–5.5	RX	20	0.2	4.44	4	448	0.3	5	3.07	0.3	68	18	32	96	5.13	0.73	15	14	1.73	998	1	0.14	20	0.09	6	158	0.30	171	80	↓
	280–3.5	"	5	0.2	4.68	4	420	0.3	5	3.70	0.2	73	14	20	19	4.63	0.91	14	10	1.23	873	1	0.11	12	0.12	2	350	0.32	164	38	
	281–1.0	"	5	0.2	3.85	2	248	0.3	5	4.02	0.2	67	20	66	88	5.30	0.52	11	8	2.02	723	1	0.22	27	0.09	2	170	0.36	202	38	
	282–1.5	"	5	0.2	4.10	4	236	0.3	5	3.97	0.2	73	16	39	42	4.83	0.53	13	9	1.87	676	1	0.18	20	0.09	3	220	0.39	195	31	KC1
	283–2.5	"	5	0.2	3.30	7	1040	0.4	5	3.81	0.2	75	10	15	8	3.33	1.79	15	11	0.94	981	1	0.12	11	0.13	4	42	0.20	178	31	"
	284–4.5	"	5	0.2	4.83	2	683	0.3	5	1.66	0.3	63	11	13	12	4.36	1.68	15	11	1.40	705	1	0.09	9	0.12	3	153	0.31	165	43	"
	285–2.0	"	5	0.2	3.36	13	189	0.5	5	2.20	0.6	83	18	60	47	4.94	0.33	22	14	2.48	947	1	0.10	60	0.14	6	385	0.37	155	77	"
	286–4.0	"	5	0.2	3.37	9	305	0.3	5	3.18	0.2	73	17	53	30	4.62	0.83	14	9	1.77	633	1	0.15	27	0.09	3	227	0.34	167	36	"
	287–2.5	"	5	0.2	4.15	14	290	0.3	5	4.14	0.6	76	15	42	18	4.77	0.52	13	9	1.59	707	1	0.14	18	0.09	5	265	0.37	210	38	KC1
	KLP 288–1.5	"	5	0.2	4.21	8	189	0.3	5	4.33	0.2	71	23	64	102	5.54	0.47	14	10	2.15	874	1	0.19	28	0.09	2	185	0.42	216	48	↓
	KLM 239–5.5		5	0.2	4.93	2	1080	0.5	5	2.56	0.2	79	9	16	41	4.25	1.09	20	11	1.13	880	1	0.11	6	0.12	2	213	0.28	111	92	K1,26
	240–4.3		5	0.2	5.58	2	508	0.4	5	0.23	0.2	32	2	15	110	4.90	1.35	12	14	1.53	294	1	0.32	4	0.09	2	89	0.07	114	54	307
	240–4.0		5	0.2	4.18	9	359	0.3	5	3.05	0.3	68	10	26	19	3.06	0.47	11	8	1.16	1413	1	0.11	10	0.07	2	180	0.20	105	181	"
	241		5	0.2	4.31	3	1720	0.7	5	2.04	0.4	82	12	30	288	4.09	1.01	22	9	1.64	727	1	0.09	9	0.11	4	341	0.46	124	86	307
	KLM 242–1.0		450	0.2	5.95	10	773	0.3	5	3.24	0.2	68	8	14	192	6.37	1.05	13	10	1.80	1085	2	0.09	6	0.09	3	156	0.33	169	91	307

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** T.W. **Date received:** AUG. 05 **LAB CODE:** 9308–008
Material: 26 Rx **Sheet:** 1 of 1 **Date completed:** AUG. 26
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.

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	
KLP 1 – 4.0 Rx	10	0.2	5.55	2	458	0.5	5	3.20	3.1	55	16	20	278	4.12	1.03	15	11	1.31	1050	2	0.10	6	0.09	2	138	0.20	122	660	Kli 13
2 – 3.5 Rx	60	0.4	6.31	14	386	0.2	5	1.50	0.2	38	4	9	243	5.45	1.29	12	15	2.21	351	2	0.11	4	0.08	2	109	0.23	178	50	"
3 – 4.0 Rx	5	0.4	3.99	33	405	0.2	5	1.14	0.7	35	15	18	350	5.28	0.61	12	16	2.54	1113	2	0.10	5	0.10	2	66	0.21	166	284	"
6 – 2.5 Rx	10	0.2	5.02	93	660	0.2	5	0.77	0.2	31	10	28	77	3.79	1.35	11	14	1.60	388	1	0.10	9	0.04	2	77	0.23	125	225	Kli 4
7 – 2.5 Rx	10	0.2	5.03	17	599	0.2	5	1.07	0.2	40	11	14	60	5.58	1.32	15	13	2.12	352	1	0.13	4	0.08	2	95	0.18	178	69	"
10 – 5.0 Rx	20	0.2	4.23	2	642	0.2	5	2.45	0.2	52	14	23	144	5.12	1.05	11	10	0.93	843	1	0.24	5	0.09	2	164	0.34	153	90	Kli 4
14 – 1.5 Rx	70	0.2	5.25	2	678	0.2	5	1.09	0.2	38	8	31	125	5.59	1.39	14	18	1.93	242	10	0.08	11	0.09	2	135	0.27	170	80	Kli 6
15 – 4.5 Rx	220	3.2	3.20	6	431	0.2	5	0.76	0.2	26	5	23	253	5.48	0.78	8	9	0.78	508	3	0.10	2	0.10	7	84	0.10	67	321	Kli 6
16 – 3.3 Rx	1700	4.0	1.60	5526	191	0.2	25	0.97	3.2	27	11	46	1926	10.98	0.31	6	5	0.51	721	3	0.09	1	0.08	26	74	0.26	124	1043	Kli 15
20 – 5.3 Rx	210	1.2	6.77	2	303	0.2	5	0.81	0.2	29	16	9	1228	5.73	1.60	10	17	2.37	417	15	0.12	4	0.07	2	72	0.10	198	55	Kli 15
21 – 5.5 Rx	5	0.2	4.32	2	542	0.6	5	2.24	0.5	51	13	28	155	2.83	1.05	16	10	0.96	754	3	0.09	7	0.09	2	151	0.24	96	73	
23 – 5.7 Rx	30	0.2	4.75	27	215	0.2	5	2.95	0.4	54	12	18	464	4.81	0.46	12	12	1.66	746	3	0.08	4	0.07	2	194	0.25	150	79	
24 – 1.5 Rx	1200	4.8	4.77	2	290	0.2	5	0.55	0.2	22	29	6	15000	4.77	1.37	8	11	1.39	566	3	0.09	9	0.07	2	43	0.27	176	128	
24 – 1.8 Rx	760	4.4	5.29	2	470	0.2	5	0.39	0.2	21	29	7	9003	6.03	1.73	9	10	1.20	534	3	0.09	6	0.10	2	25	0.20	186	97	
25 – 2.0 Rx	120	1.2	6.08	2	496	0.3	5	2.04	0.2	51	10	20	671	4.40	1.73	14	13	1.43	770	1	0.09	8	0.10	2	108	0.19	111	78	
25 – 2.5 Rx	5	0.2	6.37	16	602	0.3	5	4.85	0.2	82	11	20	555	4.29	1.24	18	13	1.28	1642	3	0.10	7	0.11	5	99	0.27	133	84	
25 – 3.0 Rx	240	1.6	4.36	30	287	0.4	5	0.34	0.2	33	18	15	1504	6.09	0.83	13	28	1.54	679	2	0.12	6	0.08	2	21	0.06	171	84	
26 – 5.0 Rx	5	0.2	7.73	2	613	0.4	5	0.19	0.4	28	12	8	610	5.75	2.79	11	20	1.62	323	15	0.12	3	0.11	4	17	0.06	169	62	
28 – 5.6 Rx	5	0.2	4.65	235	1246	0.7	5	2.61	0.7	86	9	17	144	4.12	1.76	27	17	0.98	861	2	0.11	6	0.14	5	70	0.08	103	108	
30 – 4.5 Rx	60	0.4	5.52	2	542	0.2	5	0.41	0.5	41	3	36	70	2.99	2.01	14	18	2.42	593	4	0.07	9	0.05	31	37	0.23	152	205	Kli 6
31 – 1.5 Rx	230	0.8	1.58	61	262	0.4	5	0.09	0.2	7	26	184	299	2.19	0.65	5	4	0.09	418	27	0.02	4	0.03	20	7	0.02	49	27	Kli 6
31 – 2.0 Rx	30	0.2	5.09	28	2449	0.4	5	0.04	0.2	15	19	11	903	8.56	2.19	9	19	0.66	586	10	0.07	1	0.11	47	17	0.05	112	116	"
32 – 4.0 Rx	70	0.2	5.45	4259	1083	0.6	5	1.66	0.2	60	11	37	203	4.42	2.25	21	14	1.39	703	2	0.07	25	0.13	3	181	0.32	112	105	"
33 – 3.7 Rx	5	0.8	6.62	6	1197	0.3	5	1.37	0.2	41	3	36	137	5.26	2.01	12	18	2.29	453	1	0.10	10	0.05	26	127	0.30	180	213	"
35 – 2.6 Rx	20	0.4	7.37	2	927	0.3	7	1.18	0.2	44	2	11	55	4.87	2.56	14	24	2.40	720	4	0.13	3	0.17	13	134	0.24	172	153	Kli 8
KLP 36 – 3.2 Rx	5	0.8	3.91	63	55	2.2	5	0.14	0.3	24	4	23	56	0.99	1.63	5	2	0.06	762	2	0.11	2	0.01	60	9	0.02	6	75	Kli 8

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: KLIYUL – 148 **Geol.:** T.W. **Date received:** AUG. 05 **LAB CODE:** 9308–008

Material: 54 Soils & 26 Rx **Sheet:** 1 of 2 **Date completed:** AUG. 09

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, On are rarely dissolved completely from geological materials with this acid dissolution method.

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	
Soil KLP 1 – 2.5	130	0.6	5.19	2	219	0.3	5	2.03	0.2	29	29	13	709	7.76	0.53	11	14	1.76	695	13	0.07	13	0.15	2	149	0.28	190	164	Kli 13
Soil 2 – 1.0	60	1.2	7.19	6	312	0.7	5	0.66	0.2	29	10	12	315	8.46	0.50	13	11	0.80	368	4	0.07	10	0.36	106	70	0.18	104	148	
Soil 2 – 2.5	95	0.4	5.04	2	294	0.4	5	1.74	0.2	33	28	15	862	6.19	0.59	12	14	1.46	628	9	0.10	14	0.13	2	143	0.24	169	72	
Soil 3 – 2.0	210	0.2	4.58	5	253	0.3	5	1.96	0.2	32	22	27	171	5.65	0.54	11	12	1.30	755	3	0.10	14	0.11	2	140	0.21	165	77	
Soil 3 – 3.0	210	0.2	4.19	3	240	0.3	5	1.99	0.2	31	18	25	198	5.42	0.49	11	12	1.26	703	3	0.10	13	0.10	2	138	0.21	160	81	
Soil 3 – 4.0	240	0.4	4.20	6	305	0.3	5	1.83	0.2	32	22	27	1168	5.19	0.64	11	14	1.31	755	3	0.08	15	0.10	8	133	0.22	154	164	
Soil 4 – 2.0	60	0.2	4.54	3	283	0.3	5	2.00	0.2	30	20	26	134	5.09	0.54	10	12	1.33	761	2	0.09	16	0.10	2	148	0.23	160	89	
Soil 4 – 4.0	35	0.2	4.13	5	255	0.3	5	1.89	0.3	30	20	30	134	5.31	0.49	10	12	1.25	742	2	0.10	14	0.10	2	131	0.20	155	84	
Soil 5 – 1.5	30	0.2	4.57	4	376	0.4	5	1.47	0.3	33	41	21	191	8.46	0.61	12	15	1.54	990	6	0.10	18	0.16	2	118	0.26	164	129	
Soil 5 – 3.5	50	0.2	4.32	2	476	0.3	5	1.99	0.2	30	19	25	94	6.88	0.58	11	12	1.39	690	3	0.11	15	0.14	2	165	0.27	181	108	
Soil 7 – 1.5	50	0.2	5.50	2	557	0.4	5	1.62	0.2	38	35	24	154	5.48	0.73	13	13	1.23	919	2	0.12	15	0.12	20	176	0.26	156	92	Kli 4
" 8 – 2.0	30	0.2	5.59	2	483	0.4	5	1.90	0.2	34	22	24	144	5.25	0.73	12	16	1.61	900	2	0.10	24	0.12	2	187	0.24	160	106	
" 8 – 5.0	30	0.2	5.07	2	369	0.4	5	2.00	0.2	36	25	31	163	4.91	0.66	13	14	1.47	871	2	0.07	17	0.10	4	179	0.23	168	91	
" 9 – 2.0	85	0.4	5.11	2	283	0.4	5	2.02	0.2	30	28	20	195	5.99	0.60	10	14	1.51	1004	5	0.08	17	0.13	2	151	0.27	169	92	
" 9 – 4.25	40	0.2	5.35	2	306	0.4	5	1.85	0.2	31	36	21	208	5.23	0.58	10	14	1.52	1061	3	0.09	23	0.11	2	135	0.25	161	98	
" 10 – 1.0	60	0.2	5.29	2	319	0.4	5	1.71	0.2	31	24	24	162	5.51	0.59	10	14	1.47	943	2	0.09	20	0.10	2	136	0.25	160	101	
" 10 – 5.0	35	0.2	5.51	2	453	0.4	5	1.89	0.2	32	38	32	183	5.23	0.70	10	16	1.52	1004	4	0.12	29	0.13	2	182	0.21	155	94	
" 11 – 1.5	20	0.2	5.45	2	398	0.4	5	1.21	0.2	28	13	27	104	6.07	0.59	9	14	1.40	646	3	0.09	16	0.12	2	119	0.20	142	88	Kli 6
" 11 – 5.0	50	0.2	5.35	2	359	0.4	5	1.55	0.2	33	17	22	135	5.10	0.56	11	15	1.50	684	2	0.09	18	0.12	2	134	0.23	146	90	"
" 12 – 1.5	25	0.2	5.53	2	358	0.4	5	1.36	0.2	30	16	55	110	5.05	0.64	10	20	1.74	740	2	0.09	64	0.13	2	113	0.26	156	117	
" 12 – 3.5	40	0.2	5.07	2	332	0.3	5	1.82	0.2	31	15	19	118	4.90	0.56	10	17	1.60	731	2	0.08	20	0.11	2	139	0.27	167	103	
" 13 – 2.0	55	0.2	4.92	2	353	0.3	5	1.96	0.2	31	18	29	108	4.89	0.55	10	13	1.42	821	1	0.08	16	0.11	2	153	0.24	159	85	
" 13 – 3.0	50	0.2	5.20	2	428	0.3	5	1.78	0.2	32	19	24	119	4.88	0.67	10	15	1.49	777	1	0.09	17	0.10	2	160	0.23	153	85	
" 16 – 2.0	210	0.4	4.34	2	309	0.3	5	1.88	0.2	31	19	20	648	5.29	0.60	11	13	1.34	799	2	0.09	14	0.10	2	145	0.22	159	104	Kli 15
" 17 – 2.0	95	0.6	4.31	2	381	0.3	5	1.63	0.7	31	11	23	1690	6.38	0.75	11	13	1.21	580	3	0.11	12	0.11	2	161	0.24	160	195	
" 17 – 3.3	250	0.4	4.08	4	335	0.3	5	1.74	0.8	32	12	25	1205	6.20	0.68	12	13	1.23	589	3	0.11	12	0.10	2	148	0.23	168	181	
" 18 – 2.0	40	0.6	4.76	2	317	0.3	5	1.92	0.4	30	29	25	209	5.16	0.62	10	14	1.44	864	1	0.11	16	0.10	2	142	0.22	158	99	
" 18 – 4.7	85	0.4	4.15	3	261	0.3	5	1.93	0.3	33	18	28	365	5.16	0.57	11	13	1.26	679	2	0.09	14	0.09	2	139	0.21	159	129	
" 19 – 2.0	75	0.2	4.27	6	258	0.4	5	1.42	0.3	33	30	21	770	5.80	0.50	11	15	1.36	950	3	0.09	20	0.11	6	104	0.19	144	121	
" 19 – 3.5	270	0.2	4.47	7	243	0.4	5	1.73	0.2	31	59	21	1785	6.16	0.51	12	14	1.39	995	5	0.09	19	0.12	2	117	0.21	157	96	
" 20 – 2.0	90	0.2	4.23	8	189	0.4	5	1.46	0.2	29	38	20	419	7.44	0.43	11	15	1.34	1014	5	0.12	18	0.15	2	106	0.18	151	70	
" 20 – 4.5	75	0.2	4.23	9	221	0.3	5	1.62	0.2	31	46	20	1406	6.38	0.50	12	15	1.45	1004	5	0.10	21	0.12	2	111	0.21	159	78	
" 21 – 2.0	65	0.2	4.46	10	244	0.4	5	1.43	0.2	30	30	25	296	6.23	0.51	10	17	1.54	1082	3	0.12	27	0.11	2	102	0.21	169	85	
" 21 – 4.5	140	0.2	4.63	23	371	0.4	5	1.50	0.2	31	43	11	1672	6.85	0.78	12	14	1.26	926	8	0.12	13	0.13	2	127	0.20	136	76	
" KLP 22 – 2.0	110	0.2	4.17	5	312	0.3	5	1.75	0.4	28	24	26	135	5.01	0.54	10	18	1.74	1036	1	0.10	28	0.08	2	110	0.22	173	89	

23/08 GP

T. 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	
soil KLP 22 – 5.2	55	0.2	4.13	7	265	0.3	5	3.05	0.2	25	23	29	152	4.78	0.48	10	16	1.54	857	1	0.10	24	0.08	2	149	0.24	172	90	kli 15
soil 23 – 2.0	15	0.2	4.34	5	257	0.3	5	2.21	0.2	28	22	29	143	4.85	0.44	10	16	1.68	964	1	0.10	24	0.09	2	127	0.26	174	82	
〃 23 – 5.5	310	0.2	4.82	2	476	0.5	5	1.29	1.0	34	34	18	808	6.06	0.99	12	15	1.32	2087	5	0.13	22	0.12	2	97	0.14	143	237	
〃 26 – 2.0	260	1.6	4.26	11	217	0.4	5	1.80	0.2	35	46	23	6611	6.44	0.56	14	15	1.39	1055	6	0.07	17	0.11	5	130	0.20	156	96	
〃 27 – 2.0	100	0.8	4.61	5	387	0.3	5	1.50	0.2	32	19	19	421	6.23	0.78	11	16	1.53	661	6	0.08	16	0.12	7	126	0.25	159	212	
〃 27 – 3.0	160	0.2	4.38	7	336	0.3	5	1.51	0.2	31	25	21	698	6.14	0.70	11	14	1.41	633	5	0.09	15	0.11	4	119	0.22	154	210	
〃 28 – 2.0	80	0.6	4.29	3	307	0.3	5	1.93	0.2	31	21	23	587	5.58	0.66	11	12	1.31	723	3	0.08	15	0.12	2	134	0.22	160	113	
〃 28 – 5.5	120	0.8	4.51	11	360	0.3	5	1.56	0.7	32	37	18	2025	6.83	0.84	12	14	1.33	982	5	0.09	19	0.12	6	114	0.20	156	208	
〃 29 – 2.0	1630	0.6	4.68	3	336	0.3	5	1.80	0.2	31	22	26	670	5.53	0.61	11	14	1.44	895	3	0.09	17	0.11	5	135	0.23	157	124	kli 6
〃 29 – 6.0	85	0.2	4.64	2	350	0.3	5	1.95	0.2	30	23	20	459	5.51	0.69	11	13	1.41	792	3	0.09	15	0.10	10	148	0.24	162	134	
〃 30 – 3.0	200	0.8	4.39	9	383	0.3	5	1.88	0.2	29	18	23	391	6.78	0.71	12	14	1.45	736	3	0.10	16	0.12	8	154	0.27	176	154	
〃 32 – 2.0	100	0.2	4.54	2	359	0.3	5	2.16	0.2	35	20	27	461	5.57	0.65	13	13	1.31	766	3	0.08	17	0.11	6	171	0.24	166	104	
〃 32 – 3.8	100	0.6	4.54	2	489	0.3	5	2.00	0.2	33	19	28	473	6.59	0.77	13	13	1.35	832	5	0.08	15	0.14	13	187	0.25	163	113	
〃 33 – 2.0	85	0.4	4.66	2	435	0.3	5	2.15	0.2	33	13	33	290	5.26	0.75	13	13	1.76	643	3	0.07	20	0.10	48	218	0.26	176	170	
〃 33 – 3.5	65	0.8	6.02	2	892	0.4	5	1.36	0.2	32	16	17	347	5.01	1.72	12	14	1.52	484	5	0.09	14	0.09	92	146	0.36	166	145	
〃 34 – 2.0	70	0.4	4.78	2	335	0.4	5	2.25	0.2	30	28	32	543	6.30	0.63	12	16	2.03	893	3	0.07	24	0.13	6	165	0.30	196	165	
〃 34 – 5.2	130	0.6	4.97	2	275	0.4	5	2.85	0.2	29	27	37	540	5.85	0.61	12	17	2.46	1098	3	0.07	33	0.16	5	207	0.33	214	208	
〃 35 – 2.0	65	1.0	5.11	2	646	0.3	5	1.41	0.2	32	6	11	104	7.03	1.26	13	16	1.62	620	15	0.18	6	0.15	58	263	0.32	164	132	kli 8
KLP 36 – 2.0 soil	85	0.6	4.66	2	370	0.3	5	2.10	0.2	30	21	28	274	5.59	0.64	11	13	1.41	779	3	0.09	16	0.10	10	159	0.24	165	104	4

APPENDIX V

COMBINED HELICOPTER-BORNE MAGNETIC, ELECTROMAGNETIC, RADIOMETRIC AND VLF-EM SURVEY REPORT

REPORT ON A COMBINED HELICOPTER-BORNE MAGNETIC, ELECTROMAGNETIC RADIOMETRIC AND VLF-EM SURVEY OMENICA AREA PROVINCE OF BRITISH COLUMBIA NTS 94 D/8,9

FOR

NORANDA EXPLORATION COMPANY, LIMITED
SUITE 100, 1285 WEST PENDER STREET
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BY

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September 24, 1993

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Consulting Geophysicist

J9358

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LIST OF MAPS

The survey area is presented in a two sets of numbered maps, South Sheet; J9358-1 and North Sheet; J9358-2, in the following format:

BLACK LINE MAPS: (Scale 1:20,000)

Map No.	Description
1.	BASE MAP; screened topographic base map plus survey area boundary, and UTM grid.
2.	FLIGHT PATH MAP; photo-combination of the base map with flight lines, fiducials and EM anomaly symbols.
3.	COMPILATION / INTERPRETATION MAP; with base map, flight path map and EM anomaly symbols with interpretation .
4.	TOTAL FIELD MAGNETIC CONTOURS; with base map and flight lines.
5.	VERTICAL MAGNETIC GRADIENT CONTOURS; with base map and flight lines.
6.	WEIGHT PERCENT MAGNETITE; with base map and flight lines.
7A.	APPARENT RESISTIVITY CONTOURS; apparent resistivity calculated for the coplanar 850 Hz data, with base map and flight lines.
7B.	APPARENT RESISTIVITY CONTOURS; apparent resistivity calculated for the coaxial 935 Hz data, with base map and flight lines.
7C.	APPARENT RESISTIVITY CONTOURS; apparent resistivity calculated for the coplanar 4,175 Hz data, with base map and flight lines.
7D.	APPARENT RESISTIVITY CONTOURS; apparent resistivity calculated for the coaxial 4,600 Hz data, with base map and flight lines.
7E.	APPARENT RESISTIVITY CONTOURS; apparent resistivity calculated for the coplanar 33,000 Hz data, with base map and flight lines.
8.	VLF-EM TOTAL FIELD CONTOURS; with base map and flight lines.

COLOUR MAPS: (Scale 1:20,000)

MAGNETIC

1. TOTAL FIELD MAGNETICS; with superimposed contours, flight lines and EM anomaly symbols.

2. VERTICAL MAGNETIC GRADIENT; with superimposed contours, flight lines and EM anomaly symbols.

3. WEIGHT PERCENT MAGNETITE; with base map and flight lines.

RESISTIVITY

4A. APPARENT RESISTIVITY; calculated for the coplanar 850 Hz data with superimposed contours, flight lines and EM anomaly symbols.

4B. APPARENT RESISTIVITY; calculated for the coaxial 935 Hz data with superimposed contours, flight lines and EM anomaly symbols.

4C. APPARENT RESISTIVITY; calculated for the coplanar 4,175 Hz data with superimposed contours, flight lines and EM anomaly symbols.

4D. APPARENT RESISTIVITY; calculated for the coaxial 4,600 Hz data with superimposed contours, flight lines and EM anomaly symbols.

4E. APPARENT RESISTIVITY; calculated for the coplanar 33,000 Hz data with superimposed contours, flight lines and EM anomaly symbols.

ELECTROMAGNETIC

5. VLF-EM TOTAL FIELD; with superimposed contours, flight lines, and EM anomaly symbols.

6A. HEM OFFSET PROFILES; coplanar 850 Hz and coaxial 935 Hz data with flight lines and EM anomaly symbols.

6B. HEM OFFSET PROFILES; coplanar 4,175 Hz and coaxial 4,600 Hz data with flight lines and EM anomaly symbols.

6C. HEM OFFSET PROFILES; coplanar 33,000 Hz data with flight lines and EM anomaly symbols.

RADIOMETRIC

7A. URANIUM COUNT with superimposed contours and flight lines.

7B. THORIUM COUNT with superimposed contours and flight lines.

7C. POTASSIUM COUNT with superimposed contours and flight lines.

7D. TOTAL COUNT with superimposed contours and flight lines.

SHADOW DERIVATIVE: (Scale 1:20,000)

8. TOTAL FIELD MAGNETICS SHADOW MAP; one or more of:
   (A) parallel to the flight lines
   (B) perpendicular to the flight lines
   (C) at 45° or 135° to the flight lines

REPORT ON A
COMBINED HELICOPTER-BORNE
MAGNETIC, ELECTROMAGNETIC
RADIOMETRIC AND VLF-EM SURVEY
ONEMICA AREA
PROVINCE OF BRITISH COLUMBIA

1. INTRODUCTION

This report describes an airborne geophysical survey carried out on behalf of Noranda Exploration Company, Limited by Geonex Aerodat Inc. under a contract dated June 21, 1993. Principal geophysical sensors included a five frequency electromagnetic system, a high sensitivity cesium vapour magnetometer, a radiometric system and a two frequency VLF-EM system. Ancillary equipment included a colour video tracking camera, a radar altimeter, a power line monitor and a base station magnetometer.

The survey was carried out over about 90 square kilometres located approximately 195 km. north-northeast of Smithers. Total survey coverage was approximately 350 line kilometres. The flight line spacing was 250 m. The Geonex Aerodat Job Number is J9358.

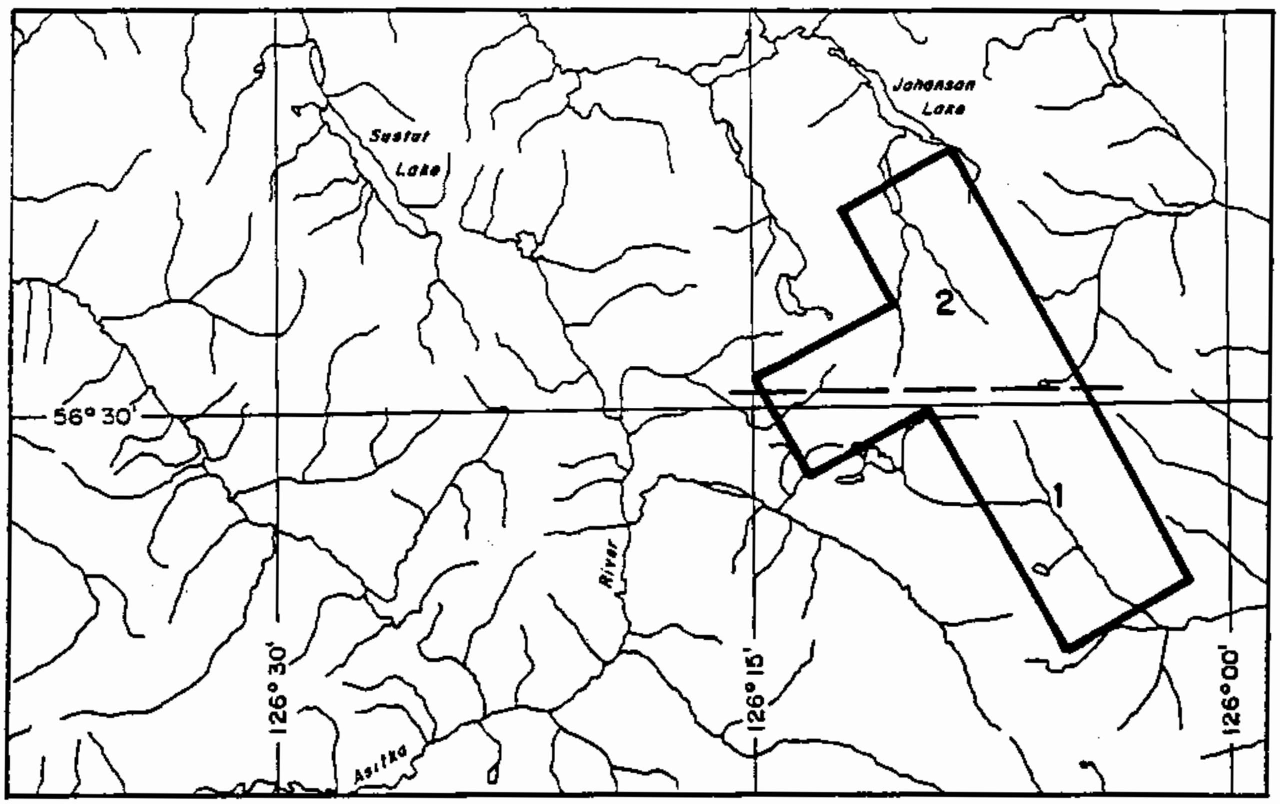
This report describes the survey, the data processing, data presentation and interpretation of the geophysical results. Electromagnetic anomalies have been identified and appear on selected map products as EM anomaly symbols with interpreted source characteristics. Conductive areas of interest are indicated on an interpretation map with designation number or letter. Prominent structural features interpreted from the magnetic results are also indicated. Recommendations concerning areas with favourable geophysical characteristics are made with reference to this compilation/interpretation map.

2. SURVEY AREA

The survey area is located in the Onemica area of northern British Columbia about 230 km. east-northeast of Stewart and 195 km. north-northeast of Smithers just 30 km. south-southeast of Fleet Peak Mountain. Topography is shown on the 1:50,000 scale NTS map sheets 94 D/8 and D/9. Local relief is very rugged. Elevations range from 1,200 to over 2,100 metres above mean sea level.

The survey area is shown in the attached index map which includes local topography and latitude - longitude coordinates. This index map also appears on all black line map products. The flight line direction is north 60° east. Line spacing is 250 metres.

SURVEY AREA



Johanson Lake
Sustut Lake
2
1
56° 30'
River
Asitka
126° 30'
126° 15'
126° 00'

3. SURVEY PROCEDURES

The survey was flown in the period from July 20 to 22, 1993. Principal personnel are listed in Appendix IV. A total of six survey flights were required to complete the project.

The aircraft ground speed was maintained at approximately 60 knots (30 metres per second). The nominal EM sensor height was 30 metres (100 feet), consistent with the safety of the aircraft and crew.

A global positioning system (GPS) consisting of a Trimble TANS GPS receiver plus the Polycorder data logger was used for navigation and flight line control. Differential GPS data is processed in the field on a PC using software supplied by Trimble. One system is installed in the survey helicopter. This involves mounting the receiver antenna on the tail boom. A second system was used as the base station.

The UTM coordinates of survey area corners were taken from the published NTS maps. These coordinates are used to program the navigation system. A test flight was used to confirm that area coverage would be as required.

Thereafter the traverse lines are flown under the guidance of the navigation system. The operator also enters manual fiducials over prominent topographic features as seen on a topographic map. Survey lines which show excessive deviation were re-flown.

The magnetic tie lines were flown using visual navigation in areas of low topographic and magnetic relief. Aircraft position was taken from the navigation system.

Calibration lines are flown at the start, middle (if required) and end of every survey flight. These lines are flown outside of ground effects to record electromagnetic zero levels.

4. DELIVERABLES

The results of the survey are presented in a report plus maps. The report is presented in four copies. White print copies of all black line maps are folded and bound with the report. The colour maps are delivered in four copies. The shadow maps are delivered in two copies. The colour and shadow maps are rolled and delivered in map tube(s).

The black line maps show topography, UTM grid co-ordinates and the survey boundary. A full list of all map types is given at the beginning of this report. A summary is given following:

MAP NO.	DESCRIPTION
	BLACK LINE
1	Base Map
2	Flight Path Map
3	Compilation/Interpretation Map
4	Total Field Magnetic Contours
5	Vertical Magnetic Gradient Contours
6	Weight Percent Magnetite
7A	Apparent Resistivity Contours - 850 Hz
7B	Apparent Resistivity Contours - 935 Hz
7C	Apparent Resistivity Contours - 4,175 Hz
7D	Apparent Resistivity Contours - 4,600 Hz
7E	Apparent Resistivity Contours - 33,000 Hz
8	VLF-EM Total Field Contours
	COLOUR
1	Total Field Magnetics
2	Vertical Magnetic Gradient
3	Weight Percent Magnetite
4A	Apparent Resistivity Contours - 850 Hz
4B	Apparent Resistivity Contours - 935 Hz
4C	Apparent Resistivity Contours - 4,175 Hz
4D	Apparent Resistivity Contours - 4,600 Hz
4E	Apparent Resistivity Contours - 33,000 Hz
5	VLF-EM Total Field
6A	HEM Offset Profiles - 850 Hz and 935 Hz
6B	HEM Offset Profiles - 4,175 Hz and 4,600 Hz
6C	HEM Offset Profiles - 33,000 Hz
7A	Uranium Count Radiometric
7B	Thorium Count Radiometric
7C	Potassium Count Radiometric
7D	Total Count Radiometric
8	Total Field Magnetic Shadow

The processed digital data is organized on 9 track archive tape. Both the profile and the gridded data are saved on tape. A full description of the archive tape(s) is delivered with the tape(s).

All gridded data are also provided on diskettes suitable for displaying on IBM compatible 286 or 386 microcomputers using the Aerodat AXIS (Aerodat Extended Imaging System) or RTI (Real Time Imaging) software package.

All analog records, base station magnetometer records, flight path video tape and original map cronaflexes are delivered with the final presentation.

5. AIRCRAFT AND EQUIPMENT

5.1 Aircraft

A ASTAR helicopter, (C-FXHS), piloted by L. Stanley , owned and operated by Executive Helicopters Ltd, was used for the survey. G. Bissonnete of Geonex Aerodat acted as navigator and equipment operator. Installation of the geophysical and ancillary equipment was carried out by Geonex Aerodat. The survey aircraft was flown at a mean terrain clearance of 60 metres (200 feet).

5.2 Electromagnetic System

The electromagnetic system was an Aerodat 5 frequency system. Two vertical coaxial coil pairs were operated at 935 Hz and 4,600 Hz and three horizontal coplanar coil pairs at 850 Hz 4,175 Hz and 33 kHz. The transmitter-receiver separation was 7 metres. Inphase and quadrature signals were measured simultaneously for the 6 freqnencies with a time constant of 0.1 seconds. The HEM bird was towed 30 metres (100 feet) below the helicopter.

5.3 VLF-EM System

The VLF-EM System was a Herz Totem 2A. This instrument measures the total field and vertical quadrature components of two selected frequencies. The sensor was towed in a bird 10 metres below the helicopter.

VLF transmitters are designated "Line" and "Ortho". The line station is that which is in a direction from the survey area which is ideally normal to the flight line direction. This is the VLF station most often used because of optimal coupling with near vertical conductors running perpendicular to the flight line direction . The ortho station is ideally 90 degrees in azimuth away from the line station.

The transmitters used were:

NAA, Cutler, Maine broadcasting at 24.0 kHz. (ortho)

NLK, Jim Creek, Washington broadcasting at 24.8 kHz. (line)

NSS, Annapolis, Maryland broadcasting at 21.4 kHz. (ortho)

Periodic shutdown of the VLF stations for maintenance occurs on a rotating basis. As a result, for the particular flight days for this survey, two different sets of stations were used for the survey as listed following:

FLIGHT NO.	LINE STATION	ORTHO STATION	LINES SURVEYED
1	NLK (24.8)	NSS (21.4)	22 -30
2 to 6	NLK (24.8)	NAA (24.0)	1 to 21, 31 to 65

5.4 Magnetometer

The magnetometer employed was a Scintrex H8 cesium, optically pumped magnetometer sensor. The sensitivity of this instrument is 0.001 nanoTesla at a 0.2 second sampling rate. The sensor was towed in a bird 15 metres (50 feet) below the helicopter (45 metres (150 feet) above the ground).

5.5 Gamma-Ray Spectrometer

An Exploranium GR-256 spectrometer coupled to 512 cubic inches of crystal sensor was used to record four channels of radiometric data. Spectrum stabilization is based on the 662 KeV peak from Cesium sources planted on the crystals.

The four channels recorded and their energy windows were as follows:

Channel	Window
Total Count (TC)	0.40 to 2.80 MeV
Potassium (K)	1.37 to 1.57 MeV
Uranium (U)	1.66 to 1.86 MeV
Thorium (Th)	2.41 to 2.81 MeV

The four channels of radiometric data were recorded at a 1 second update rate (counts per second - cps). Digital recording resolution is 1 cps.

5.6 Ancillary Systems

Base Station Magnetometer

An IFG-2 proton precession magnetometer was operated at the base of operations (Suskeena Lodge) to record diurnal variations of the earth's magnetic field. The clock of the base station was synchronized with that of the airborne system to facilitate later correlation. Recording resolution was 1 nT. The update rate was 4 seconds.

External magnetic field variations were recorded on a 3" wide paper chart and in digital form. The analog record shows the magnetic field trace plotted on a grid. Each division of the grid (0.25") is equivalent to 1 minute (chart speed) or 5 nT (vertical sensitivity). The date, time and current total field magnetic value are printed every 10 minutes.

Radar Altimeter

A King KRA-10 radar altimeter was used to record terrain clearance. The output from the instrument is a linear function of altitude. The radar altimeter is checked after installation using a line marked off at intervals of 50 feet. A heavy weight is tied onto one end of the line. The helicopter moves up over the weight and the operator notes the radar altimeter reading at the 100, 150, 200 and 250 foot marks.

Tracking Camera

A Panasonic colour video camera was used to record flight path on VHS video tape. The camera was operated in continuous mode. The flight number, 24 hour clock time (to .01 second), and manual fiducial number are encoded on the video tape.

Global Positioning System (GPS)

The Global Positioning System is a U.S. Department of Defense program which will provide world-wide, 24 hour, all weather position determination capability . GPS consists of three segments:

- a constellation of satellites
- ground stations which control the satellites
- a receiver

The receiver takes in coded data from satellites in view and there after works out the range to each satellite. The coded data must therefore include the instantaneous position of the satellite relative to some agreed earth-fixed coordinate system.

The final satellite constellation will consist of 24 satellites with a proportion of the satellites acting as standby spares.

Analog Recorder

A RMS dot matrix recorder was used to display the data during the survey. Record contents are as follows:

Label	Contents	Scale
MAGF	Total Field Magnetics, Fine	2.5 nT/mm
MAGC	Total Field Magnetics, Course	25 nT/mm
VLT	VLF-EM, Total Field, Line Station	2.5% / mm
VLQ	VLF-EM, Vert. Quadrature, Line Station	2.5% / mm
VOT	VLF-EM, Total Field, Ortho Station	2.5% / mm
VOQ	VLF-EM, Vert. Quadrature, Ortho Station	2.5% / mm
CXI1	935 Hz, Coaxial, Inphase	2.5 ppm/mm
CXQ1	935 Hz, Coaxial, Quadrature	2.5 ppm/mm
CXI2	4,600 Hz, Coaxial, Inphase	2.5 ppm/mm
CXQ2	4,600 Hz, Coaxial, Quadrature	2.5 ppm/mm
CPI1	850 Hz, Coplanar, Inphase	5 ppm/mm
CPQ1	850 Hz, Coplanar, Quadrature	5 ppm/mm
CPI2	4,175 Hz, Coplanar, Inphase	10 ppm/mm
CPQ2	4,175 Hz, Coplanar, Quadrature	10 ppm/mm
CPI3	33,000 Hz, Coplanar, Inphase	20 ppm/mm
CPQ3	33,000 Hz, Coplanar, Quadrature	20 ppm/mm
TF	Radiometric - Total Field	10 counts/mm
K	Radiometric - Potassium	5 counts/mm
U	Radiometric - Uranium	2.5 counts/mm
T	Radiometric - Thorium	2.5 counts/mm
RALT	Radar Altimeter	10ft/mm
PWRL	60 Hz Power Line Monitor	-

Data is recorded with positive - up, negative - down. This does not apply to the VLF data as seen on the analog records which is inverted.

The analog zero of the radar altimeter is 5 cm from the top of the analog record. A helicopter terrain clearance of 60 m (200 feet) should therefore be seen some 3 cm from the top of the analog record.

Chart speed is 2 mm/second. The 24 hour clock time is printed every 20 seconds. The total magnetic field value is printed every 30 seconds. The ranges from the radar navigation system are printed every minute.

Vertical lines crossing the record are operator activated manual fiducial markers. The start of any survey line is identified by two closely spaced manual fiducials. The end of any survey line is identified by three closely spaced manual fiducials. Manual fiducials are numbered in order. Every tenth manual fiducial is indicated by its number, printed at the bottom of the record.

Calibration sequences are located at the start and end of each flight and at intermediate times where needed.

Digital Recorder

A DGR-33 data system recorded the digital survey data on magnetic media. Contents and update rates were as follows:

DATA TYPE	RECORDING INTERVAL	RECORDING RESOLUTION
Magnetometer	0.2 s	0.001 nT
VLF-EM (4 Channels)	0.2 s	0.03%
HEM (8 Channels)	0.1 s	
coaxial		0.03 ppm
coplanar-850 Hz/4,175 Hz		0.06 ppm
coplanar -33 kHz		0.125 ppm
Radiometric	0.2 s	1 cps
Position (2 Channels)	0.2 s	0.1 m
Altimeter	0.2 s	0.05 m
Power Line Monitor	0.2 s	-
Manual Fiducial		
Clock Time		

6. DATA PROCESSING AND PRESENTATION

6.1 Base Map

The base map is taken from a photographic enlargement of the NTS topographic maps. A UTM reference grid (grid lines usually every kilometre) and the survey area boundary were added. After registration of the flight path to the topographic base map, topographic detail and the survey boundary are digitized. This digital image of the base map is used as the base for the colour and shadow maps.

6.2 Flight Path Map

Global Positioning System

The GPS receiver takes in coded data from satellites in view and there after works out the range to each satellite. The coded data must therefore include the instantaneous position of the satellite relative to some agreed earth-fixed coordinate system.

A further calculation using ranges to a number of satellites gives the position of the receiver in that coordinate system (eg. UTM, lat/long.). The elevation of the receiver is given with respect to a model ellipsoidal earth.

Normally the receiver must see 4 satellites for a full positional determination (3 space coordinates and time). If the elevation is know in advance, only 3 satellites are needed. These are termed 3D and 2D solutions.

The position of the receiver is updated every second. The accuracy of any 1 second position determination is described by the Circular Error Probability (CEP). 95% of all position determinations will fall with a circle of a certain radius. If the horizontal position accuracy is 25 m CEP for example, 95% of all trials will fall within a circle of 25 m radius centred on the mean. The system may be degraded for civilian use and the autonomous accuracy is then 100 m CEP. This situation is called selective availability (SA). Much of this error (due to principally to satellite position/time errors and atmospheric delays) can be removed using two GPS receivers operating simultaneously. One receiver acting as the base station, is located at a known position. The second remote receiver is in the unknown position. Differential corrections determined for the base station may then be applied to the remote station. Differential positions are accurate to 5 m CEP (for a one second sample). Averaging will reduce this error further.

Flight Path

The flight path is drawn using linear interpolation between x,y positions from the navigation system. These positions are updated every second (or about 1.5.0 mm at a scale of 1:20,000). These positions are expressed as UTM eastings (x) and UTM northings (y).

Occasional dropouts occur when the optimum number of satellites are not available for the GPS to make accurate positional determinations. Interpolation is used to cover short flight path gaps. The navigator's flight path and/or the flight path recovered from the video tape may be stitched in to cover larger gaps. Such gaps may be recognized by the distinct straight line character of the flight path.

The manual fiducials are shown as a small circle and labelled by fiducial number. The 24 hour clock time is shown as a small square, plotted every 30 seconds. Small tick marks are plotted every 2 seconds. Larger tick marks are plotted every 10 seconds. The line and flight numbers are given at the start and end of each survey line.

The flight path map is merged with the base map by matching UTM coordinates from the base maps and the flight path record. The match is confirmed by checking the position of prominent topographic features as recorded by manual fiducial marks or as seen on the flight path video record.

6.3 Electromagnetic Survey Data

The electromagnetic data were recorded digitally at a sample rate of 10 per second with a time constant of 0.1 seconds. A two stage digital filtering process was carried out to reject major sferic events and to reduce system noise.

Local sferic activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major sferic events. The signal to noise ratio was further enhanced by the application of a low pass digital filter. This filter has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 0.25 seconds. This low effective time constant gives minimal profile distortion.

Following the filtering process, a base level correction was made using EM zero levels determined during high altitude calibration sequences. The correction applied is a linear function of time that ensures the corrected amplitude of the various inphase and quadrature components is zero when no conductive or permeable source is present. The filtered and levelled data were used in the determination of apparent resistivity (see below).

6.4 Total Field Magnetics

The aeromagnetic data were corrected for diurnal variations by adjustment with the recorded base station magnetic values. No corrections for regional variations were applied. The corrected profile data were interpolated on to a regular grid using an Akima spline technique. The grid provided the basis for threading the presented contours. The minimum contour interval is 5 nT. A grid cell size of 25 m was used.

6.5 Vertical Magnetic Gradient

The vertical magnetic gradient was calculated from the gridded total field magnetic data. The calculation is based on a 17 x 17 point convolution in the space domain. The results are contoured using a minimum contour interval of 0.1 nT/m. Grid cell sizes are the same as those used in processing the total field data.

6.6 Weight Percent Magnetite

The apparent weight percent magnetite has been calculated from the 4,175 Hz inphase electromagnetic response. The algorithm is based on the electromagnetic response to a non-conducting, magnetically polarizable half-space. The calculation involves a correction to a sensor elevation of 30 m followed by a conversion to weight percent. The elevation correction is based on the exponential fall-off of response amplitude with height. Data collected with a sensor terrain clearance less than 20 m is ignored. As a rule of thumb, a negative inphase response of 1 ppm in either coaxial channel will work out to a percent magnetite by weight of about 0.2%.

The results will be misleading if the source is a near-vertical dyke or intrusion. In such cases, the calculated weight percent magnetite may be too little by a factor of 10 or more.

The calculated apparent percent magnetite data were interpolated on a square grid (25 m grid cell size). The grid provided the basis for threading the presented contours. The minimum contour interval is 1%.

6.7 Apparent Resistivity

The apparent resistivity is calculated by assuming a 200 metre thick conductive layer over resistive bedrock. The computer determines the resistivity that would be consistent with the sensor elevation and recorded inphase and quadrature response amplitudes at the selected frequency. The apparent resistivity profile data was re-interpolated onto a regular grid at a 25 metres true scale interval using an Akima spline technique and contoured using logarithmically arranged contour intervals. The minimum contour interval is 0.1 log(ohm.m).

The highest measurable resistivity is approximately equal to the transmitter frequency. The lower limit on apparent resistivity is rarely reached.

6.8 VLF-EM

The VLF Total Field data from the Line Station is levelled such that a response of less than 0% is seen in non-anomalous regions. The corrected profile data are interpolated onto a regular grid using an Akima spline technique. The grid provided the basis for threading the presented contours. The minimum contour interval is 2%. Grid cell size is 25 m.

6.9 Radiometric Data

The four channels of radiometric data are subject to a four stage data correction process.

The stages are

- low pass filter (seven point Hanning)
- background removal
- terrain clearance correction
- compton stripping correction

The Compton stripping factors used were

alpha	0.277	(Th into U)
beta	0.436	(Th into K)
gamma	0.77	(U into K)
a	0.07	(U into Th)
b	0.00	(K into Th)
g	0.008	(K into U)

where alpha, beta and gamma are the forward stripping coefficients and a, b, g are the backward stripping coefficients. These coefficients are taken in part from the sample checks done at the start of each flight.

The altitude attenuation coefficients used were 0.0072 (TC), 0.0085 (K), 0.0082 (U) and 0.0067 (Th). The units are metres $^{-1}$. These coefficients are taken from GSC publications for similar radiometric systems. Radiometric data were corrected to a mean terrain clearance of 60 m.

The corrected data were interpolated on a square grid (cell size 25m) using an Akima spline technique. The grids provided the basis for threading the presented contours. The minimum contour intervals are 25 cps (TC), 2 cps (K), 1 cps (U) and 1 cps (Th).

7. INTERPRETATION

7.1 Area Geology

The regional geology comprises Triassic and possibly Jurassic age intermediate to mafic volcanic tuffs, agglomerates and lavas enveloping narrow limestone and argillite formations. Minor metasediments and metavolcanics are also present. The whole are is intruded by felsic igneous rocks. The volcanics and associated rocks dip easterly to southerly between 15° to 45°.

7.2 Magnetic Interpretation

The total field magnetic responses reflect major changes in the magnetite content of the underlying rock units. The amplitude of the magnetic responses relative to the regional background help to assist in identifying specific magnetic and non-magnetic units related to, for example, mafic flows or tuffs, mafic to ultramafic intrusives, felsic intrusives, felsic volcanics and/or sediments etc. Obviously, several geological sources can produce the same magnetic response. These ambiguities can be reduced considerably if basic geological information on the area is available to the geophysical interpreter.

In addition to amplitude variations, magnetic patterns related to the geometry of the particular rock unit also help in determining the probable source of the magnetic response. For instance, long narrow magnetic linears usually reflect mafic tuff or flow horizons while semi-circular features with complex magnetic amplitudes may be produced by local plug-like intrusive sources such as pegmatites, carbonatites or kimberlites.

The calculated vertical magnetic gradient assists considerably in mapping weaker magnetic linears that are partially masked by nearby higher amplitude magnetic features. The broad zones of higher magnetic amplitude, however, are severely attenuated in the vertical magnetic gradient results. These higher amplitude zones reflect rock units having magnetic susceptibility signatures. For this reason both the total and gradient magnetic data sets must be evaluated.

Theoretically the zero contour of the magnetic gradient map marks the contacts or limits of large magnetic sources. This applies to wide sources, greater than 50 metres, having simple slab geometries and shallow depth.(See discussion in Appendix I) Thus the gradient map also aids in the more accurate delineation of contacts between differing magnetic rock units.

The cross cutting structures shown on the interpretation map are based on interruptions and discontinuities in the magnetic trends. Generally, sharp folding of magnetic units will produce a magnetic pattern indistinguishable from a fault break. Thus these structures have been designated as fold/fault features.

7.3 Magnetic Survey Results and Conclusions

To facilitate the following discussion of the magnetic results it is suggested that the interpretation map be compared with the total field and vertical gradient magnetic colour contour maps either as overlays or side by side.

The magnetic background is interpreted to be approximately 57,950 nanoTesla (nT). Amplitudes range from about 2,500 nT above background to 350 nT below background. The magnetic anomaly patterns are very complex with rapidly changing amplitudes. Generally, the trend directions of the magnetic units are north-northwest to northwest. The higher amplitude anomalies, greater than 300 nT above background, are indicated on the interpretation map as shaded areas. Almost all of these areas are coincident with topographic highs which are mapped as intermediate volcanics. The best example is seen in the extreme southeast corner of the survey area where there is a four kilometre long northeast striking anomaly greater than 2,000 nT above background. This anomaly reflects a very high magnetite content which produces striking negative in-phase responses on the electromagnetic channels. It is coincident with one of the highest ridges in the area. It could reflect a siliceous iron formation or iron-rich skarn unit rather than a mafic volcanic unit.

Other lower amplitude magnetic trends associated with the higher amplitude areas are designated on the interpretation map as solid lines. These sinuous and intermittent narrow anomalies are more likely to be related to mafic tuffs and flows which are ubiquitous to the area. Northeast striking cross-cutting fold/fault structures have been located on the interpretation map to explain some of the magnetic anomaly displacements and interruptions.

A most obvious north-south striking fault or contact structure is evident in the north central half of the survey block. This structure flanks the west side of a narrow below background magnetic zone that encompasses a complex conductive horizon. Such a signature is typical of a graphitic argillite formation. These designated negative or below background magnetic areas generally flank the east and west sides of the central core of magnetic activity trending through the central north part of the main survey block. In the south half of the block there are three such horizons. They sometimes contain local conductive zones and low amplitude weak magnetic linears which are shown as dashed lines. Sedimentary or felsic volcanic rocks with intercalated narrow mafic tuff or flow horizons may underlay these low amplitude magnetic zones. In areas where there is little conductive activity, such as the south central part of the south survey block and along the east side of the survey boundary, these low amplitude magnetic areas may be mapping felsic intrusive rocks.

7.4 Electromagnetic Anomaly Selection/Interpretation

Usually two sets of stacked colour coded profile maps of one coaxial and one coplanar inphase and quadrature responses are used to select conductive anomalies of interest. Selection of anomalies is based on conductivity as indicated by the inphase to quadrature ratios of the 4,600 Hz coaxial data, anomaly shape, and anomaly profile characteristics relative to coaxial and corresponding coplanar responses.(see discussion and figure in Appendix I)

It is difficult to differentiate between responses associated with the edge effects of flat lying conductors and actual poor conductivity bedrock conductors on the edge of or overlain by flat lying conductors. Poor conductivity bedrock conductors having low dips will also exhibit responses that may be interpreted as surficial overburden conductors. In such cases, where the source of the conductive response appears to be ambiguous, the anomaly is still selected for plotting. In some situations the conductive response has line to line continuity and some magnetic association thus providing possible evidence that the response is related to an actual bedrock source.

The calculation of the depth to the conductive source and its conductivity is based on the 4,600 Hz data using a thin vertical sheet model. The amplitude of the inphase and quadrature responses are used for the calculations which are automatically determined by computer. These data are listed in Appendix II and the depth and conductivity values are shown with each plotted anomaly. Further detailed discussion and illustration of the determination of these values is contained in Appendix I.

The selected anomalies are automatically categorized according to their conductivity and amplitude. The calculation of the conductivity of low amplitude anomalies can be very inaccurate. Therefore, anomalies having amplitudes below a certain level and/or low conductivity value are given a zero rating with the category increasing for increasing conductivity values that are statistically reliable.

7.5 VLF Electromagnetic Survey

This high frequency type of survey, utilizing fixed government communication transmitter stations, tends to detect long strike length and/or surficial poor conductivity sources such as swamps, creeks and rivers. Conductors that are optimum coupled with the primary field will usually predominate over those with other strike directions. In some instances anomalies will be produced by variations in topographic relief.

This appears to be the case for this survey where many of the VLF anomalies that are not coincident with the helicopter EM system conductors are associated with topographic highs. There are some interesting exceptions in the extreme south central part of the survey area. Here, portions of the magnetic linears and areas have a coincident VLF response. These anomalies are on the flanks of topographic highs and can not be explained by topography. Note, also, the spatial relationship of the VLF anomalous and non-anomalous areas to the fault structures that are interpreted exclusively from the magnetic results. The correlations give added credibility to the interpreted fault structures.

7.6 Electromagnetic Survey Results and Conclusions

There are many conductive intercepts scattered haphazardly throughout the survey block. Where line to line continuity of a particular set of conductor intercepts is evident, however, they have been grouped together and designated with a number as previously explained.

Many of the anomalies have poor conductivity and broad multiple peaks without the usual crisp sharp profile peaks associated with vertical conductors. This is to be expected as the source rocks are known to have low dips from 15 to 45 degrees. Nevertheless, some of the designated conductive responses may be produced by conductive overburden.

In addition to the conductive responses, there are very strong negative in-phase responses related to high amplitude magnetic areas. Most of these negative anomalies have no quadrature response and can be attributed solely to high susceptibility material within iron rich rocks. Those anomalies having a quadrature response have been designated as they suggest some conductive material is also present.

The anomaly groupings have been numbered ascending, generally, from southeast to northwest with a total of 25 conductive trends or areas being designated. Anomalies 1, 3 and 4 are conductive/susceptibility responses within three different magnetic environments. Anomaly 1 is flanked by a short magnetic zone on the west and the contact of a low amplitude magnetic area on the east. Anomaly 3 is within the low amplitude area and anomaly 4 is coincident with the extremely high amplitude magnetic zone described previously. The source of these anomalies may be sulphides. They would be a good starting point in the assessment of the importance of these types of responses elsewhere in the survey area.

Anomalies 2, 5A, 5B, 6A, possibly 6B, 8, 19, 21A, 21B and 21C are within the central low amplitude magnetic zone thought to be related to sediments or felsic rocks. They are possibly produced by weakly graphitic/pyritic argillite formations. Anomalies 5A and 6A are long broad anomalous areas which flank interpreted northeast trending fault structures. They may be associated with the fault and/or a fold structure as the strike of the formations are known to be quite variable.

Anomalies 7, 11, 14, 15, 16 and 17 are isolated conductors within areas of low magnetic relief. They are in the same category as the just previously mentioned anomalies. Selective investigation of these anomalies is warranted as they are in a slightly different geophysical environment compared to the other anomalies.

Of more interest, because of their magnetic associations, are anomalies 9, 10, 11, 12, 13, 18, and 20 which are clustered in the west central part of the survey block. Anomaly 12 is a long formational conductive complex while anomalies 9 and 10 cover several short complex conductive areas which may be related to fold structures. With the exception of anomaly 13, a one line response, the conductors lack an exact magnetic correlation and their relationship to the magnetic linears in the area may be only fortuitous. The magnetic and conductive responses in this area may be actually mapping intercalated mafic volcanics and slighily conductive sediments. Anomaly 13 appears to be closely associated with an intrusive magnetic plug-like source. This semi-circular magnetic anomaly especially stands out on the vertical magnetic gradient map.

The remaining conductors, 22, 23, 24 and 25 are isolated features of possible interest. Anomaly 22 is partially coincident with a magnetic linear. Anomalies 23 and 24 are probably related to the same source which has been faulted as indicated on the interpretation map.

7.7 Radiometric Interpretation

The ability to detect natural occurring radiation, whether on the ground or from an airborne platform, depends on a number of factors listed as follows:

Count Time
Measurements or count rate statistics are more reliable the longer the detector is in position over a particular location. Therefore in airborne surveying, traverse speed is an important factor in detecting radiation sources. For this reason STOL aircraft and helicopters are a favoured platform for radiometric surveys.

Detector size
The detector crystal volume and thickness determine the sensitivity of the radiometric system to radiation. For accurate measurement and differentiation of higher energy levels of radiation, a large crystal volume is a pre-requisite.
Distance from Source (Altitude)
The attenuation or absorption of radiation in air, although not a significant factor in ground surveys, is a factor in airborne surveys. Normalization of the radiation amplitude data for altitude variations of the aircraft during the survey is necessary. The attenuation is not significant for large areal sources of radiation but is quite severe for localized point sources.

Overburden Cover
Radiation can be completely masked by one foot of rock or three feet of unconsolidated overburden.

Source Geometry
A large exposed outcrop of slightly radioactive material, such as granite which usually has a high potassium count, will be easily detectable from the air. A small outcrop of highly radioactive material, containing an appreciable amount of pitchblende for instance, may not be detectable unless the sensor passes directly over the outcrop and/or is quite close to it.

Source Characteristics
The type and percentage concentration of radioactive minerals present in the rock will determine radiation amplitudes and therefore the ability of the sensor to measure the radiation.

The above factors must be taken into consideration when evaluating and interpreting radiometric surveys. Variations in radiation amplitudes may only be a factor of overburden cover. As a result, an outcrop map of the survey area is very useful for initial evaluation of radioactive element concentrations.

Shales and felsic intrusives tend to have high potassium and thorium levels. Mafic intrusives, sandstone and especially limestone have concentrations of one half to one tenth of the highest levels. Specific intrusives types, such as pegmatites, can have levels of potassium, uranium and thorium, in the order of three to four times the amounts normally present. Uranium ore can contain concentrations of radioactive minerals one to four orders of magnitude greater than normally encountered.

Thus, interpretation of the source of radioactive anomalies, even when the uranium, thorium and potassium thresholds are separated, can be difficult and ambiguous. In some geological environments, specific rock units have higher or lower uranium/thorium, uranium/potassium, or thorium/potassium ratios. Additional diagnostic information is sometimes available when such ratio maps are generated and compared to known geological parameters.

7.8 Radiometric Survey Results and Conclusions

The radiometric responses for this area are not very anomalous. Most of the responses appear to be mapping geological units. A broad zone of potassium channel reponses covers the east half of the survey block. The zone comprises elevated potassium channel levels with individual bull's eye anomalies scattered throughout. The west boundary of the zone is marked by Darb Lake and Darb Creek on the north sheet and by Kliyul Creek on the south sheet. This zone of high potassium probably reflects felsic volcanics and intrusives.

There is very little thorium or uranium channel responses except in the extreme south east corner of the south sheet. Here a local area of slightly elevated levels are present probably marking a specific geological unit.

8. RECOMMENDATIONS

Local geological information or the ore target model for the survey area was not available to the author although regional geological information was obtained from Geological Survey maps. It is assumed that the main commodity sought is gold as the area contains several gold occurrences. Possible alteration areas and fault structures are usually the primary host environments for hydrothermally related gold mineralization. Thus, the interpreted fault structure zones that cross local conductive areas are recommended for initial investigation. Many of the anomalies fall into this category with the more interesting ones being 1, 2, 3, 5, 6, 7, 16, 17, 18, 20, 23, 24 and 25. Other anomalies with magnetic associations may also be important targets. Conductors 4, 13, 18 and 20 are of this type.

There are no highly anomalous radiometric responses of note. There are, however, local bull's eye potassium anomalies within the eastern elevated potassium zone as well as a local elevated uranium and thorium anomaly in the southeast corner of the area that warrant investigation. These anomalies may reflect local areas of alteration.

Respectfully submitted,

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J9358

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APPENDIX I

GENERAL INTERPRETIVE CONSIDERATIONS

GENERAL INTERPRETIVE CONSIDERATIONS

Electromagnetic

The Aerodat six frequency system utilized two different transmitter-receiver coil geometries. The traditional coaxial coil configuration is operated at three widely separated frequencies. The horizontal coplanar coil configuration is similarly operated at three different frequencies where at least one pair is approximately aligned with one of the coaxial frequencies.

The electromagnetic response measured by the helicopter system is a function of the "electrical" and "geometrical" properties of the conductor. The "electrical" property of a conductor is determined largely by its electrical conductivity, magnetic susceptibility and its size and shape; the "geometrical" property of the response is largely a function of the conductor's shape and orientation with respect to the measuring transmitter and receiver.

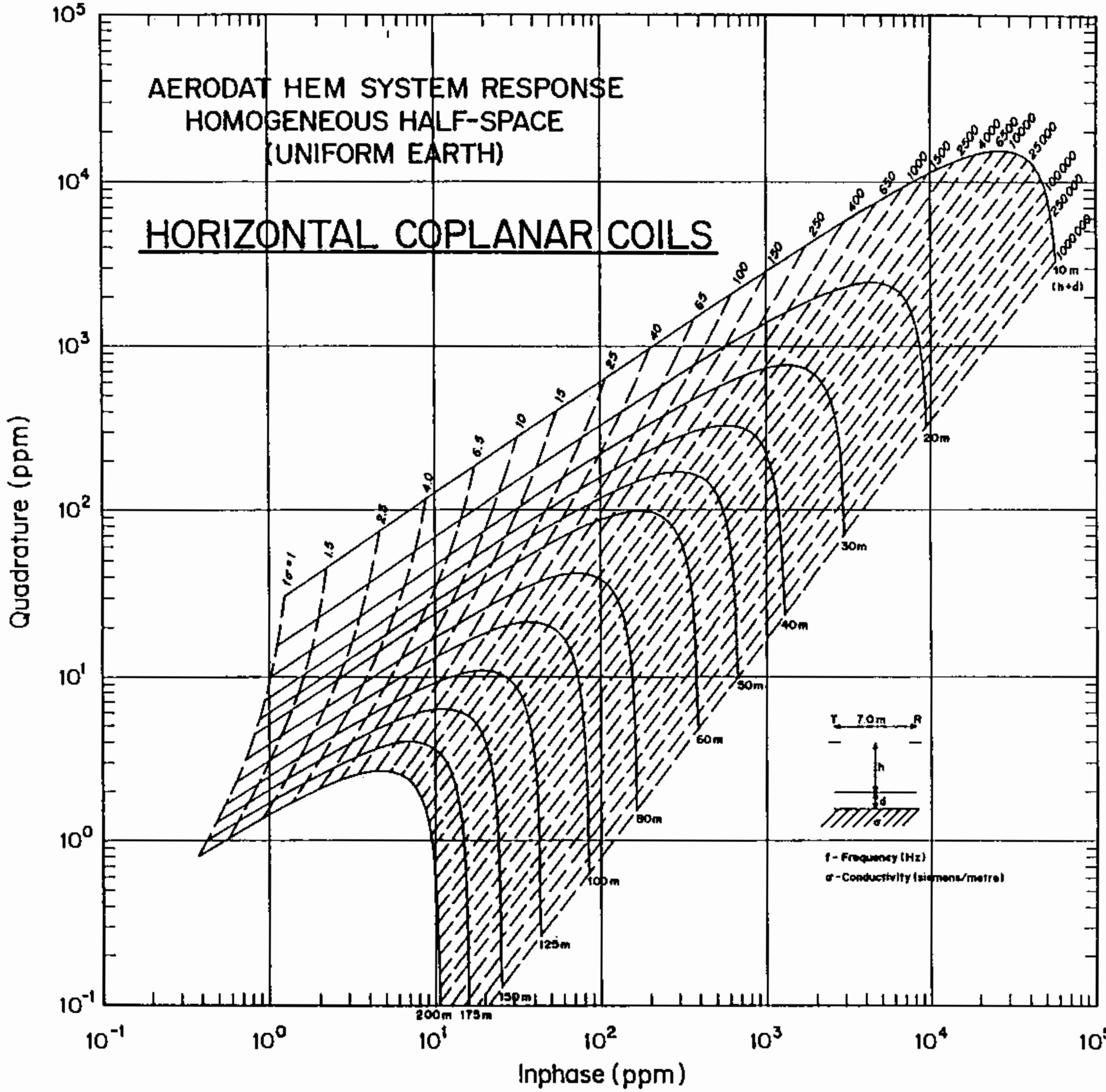
Electrical Considerations

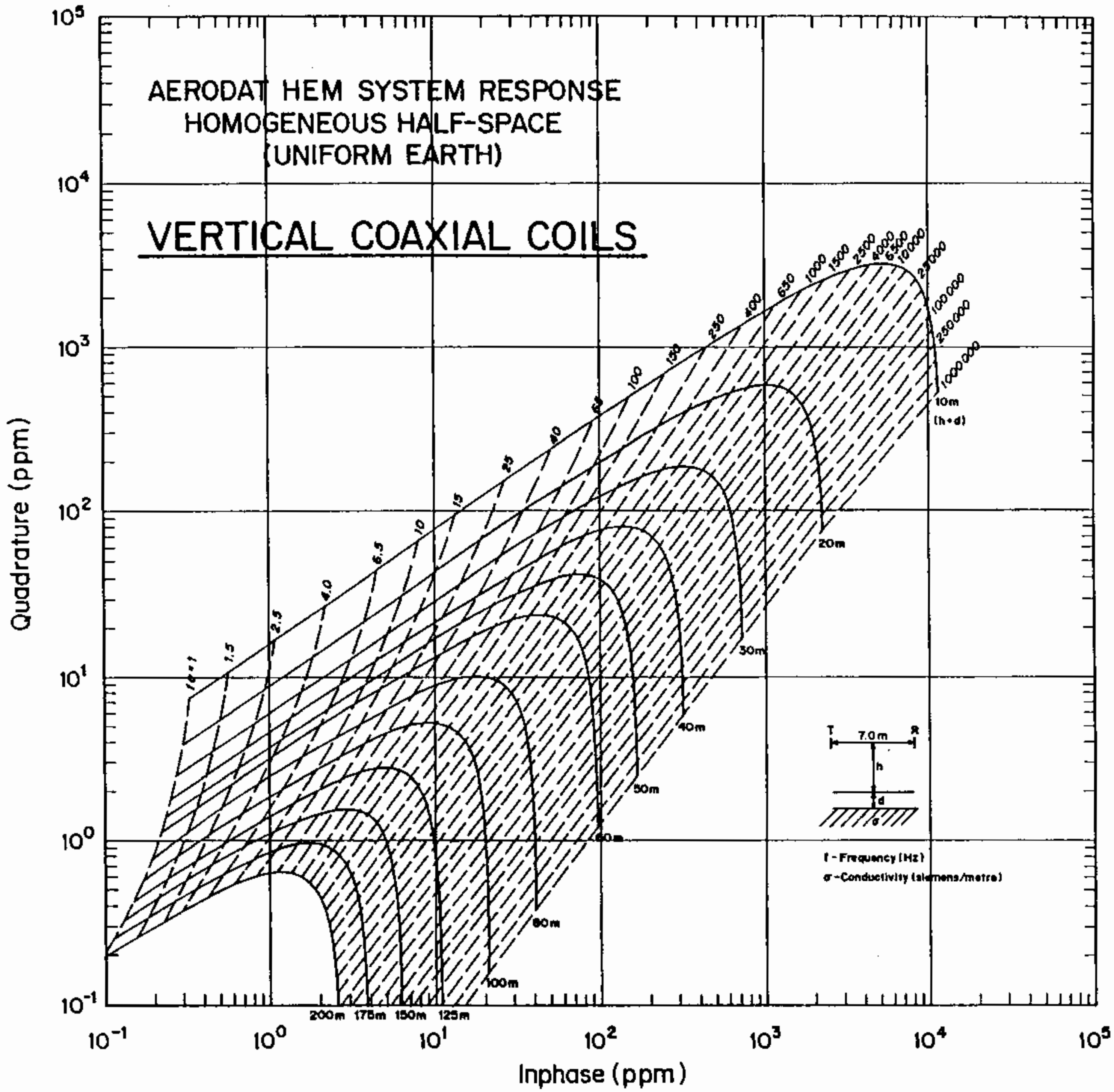
For a given conductive body the measure of its conductivity or conductance is closely related to the measured phase shift between the received and transmitted electromagnetic field. A small phase shift indicates a relatively high conductance, a large phase shift lower conductance. A small phase shift results in a large inphase to quadrature ratio and a large phase shift a low ratio. This relationship is shown quantitatively for a non-magnetic vertical half-plane and half space models on the accompanying phasor diagrams. Other physical models will show the same trend but different quantitative relationships.

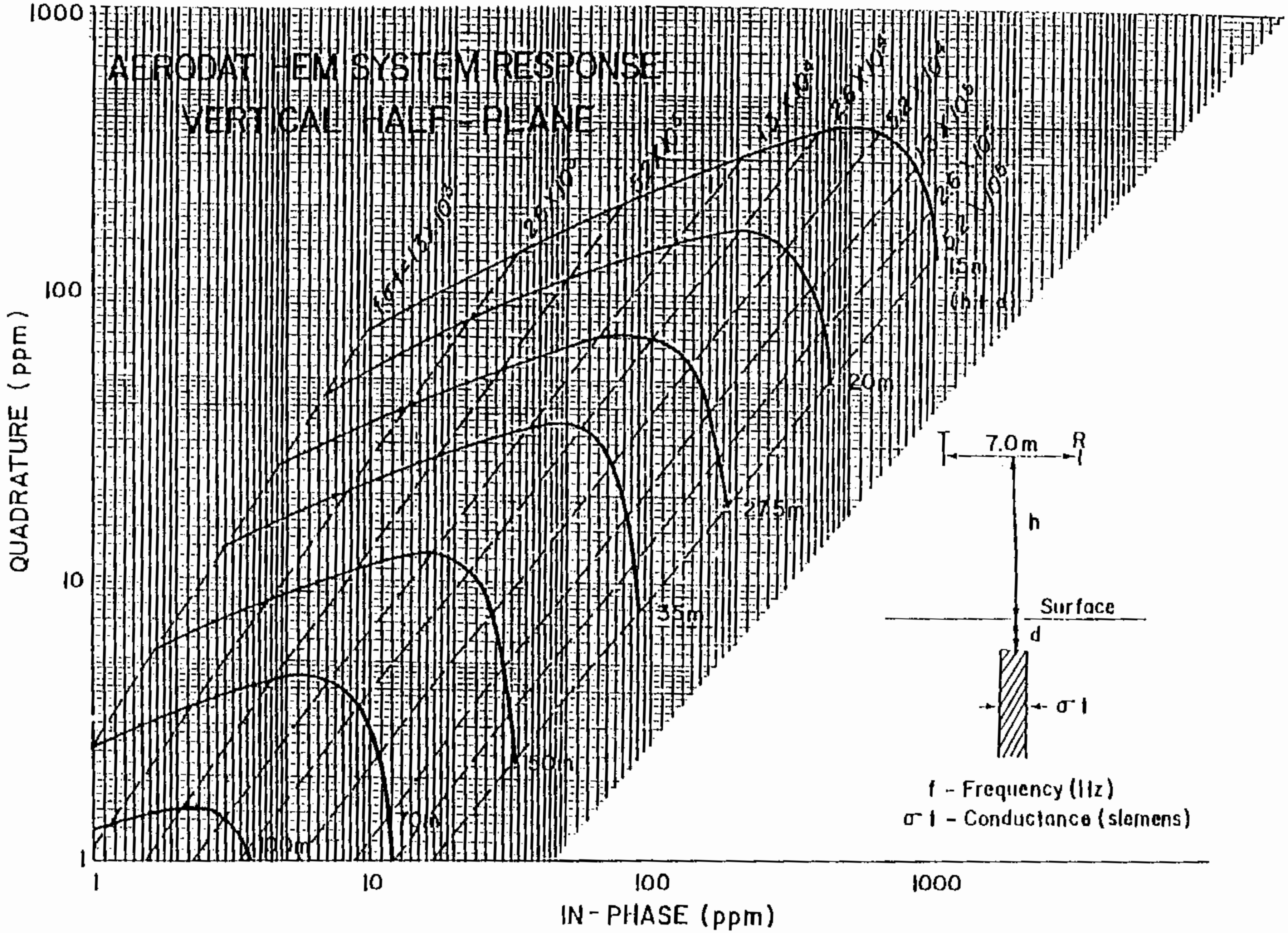
The phasor diagram for the vertical half-plane model, as presented, is for the coaxial coil configuration with the amplitudes in parts per million (ppm) of the primary field as measured at the response peak over the conductor. To assist the interpretation of the survey results the computer is used to identify the apparent conductance and depth at selected anomalies. The results of this calculation are presented in anomaly listings included in the survey report and the conductance and inphase amplitude are presented in symbolized form on the map presentation.

The conductance estimate is most reliable when anomaly amplitudes are large and background resistivities are high. Where the anomaly is of low amplitude and background resistivities are low, the conductance estimates are much less reliable. In such situations, the conductance estimate is often quite low regardless of the true nature of the conductor. This is due to the elevated background response levels in the quadrature channel. In an extreme case, the conductance estimate should be discounted and should not prejudice target selection.

The conductance and depth vales as presented are correct only as far as the model approximates the real geological situation. The actual geological source may be of limited length, have significant dip, may be strongly magnetic. Its conductivity and thickness may vary with depth


AERODAT HEM SYSTEM RESPONSE
HOMOGENEOUS HALF-SPACE
(UNIFORM EARTH)
HORIZONTAL COPLANAR COILS
Quadrature (ppm)
Inphase (ppm)
10m
(h+d)
20m
30m
40m
50m
60m
80m
100m
125m
150m
175m
200m
T
7.0m
R
h
d
σ
f - Frequency (Hz)
σ - Conductivity (siemens/metre)


AERODAT HEM SYSTEM RESPONSE
HOMOGENEOUS HALF-SPACE
(UNIFORM EARTH)
VERTICAL COAXIAL COILS
Quadrature (ppm)
Inphase (ppm)
10m
(h+d)
20m
30m
40m
50m
60m
80m
100m
125m
150m
175m
200m
7.0m
T
R
h
d
f - Frequency (Hz)
σ - Conductivity (siemens/metre)



AERODAT HEM SYSTEM RESPONSE
VERTICAL HALF-PLANE
QUADRATURE (ppm)
IN-PHASE (ppm)
1000
100
10
1
1
10
100
1000
20m
27.5m
35m
50m
70m
100m
15m
7.0m
T
R
h
Surface
d
σ·t
f - Frequency (Hz)
σ·t - Conductance (siemens)

and/or strike and adjacent bodies and overburden may have modified the response. In general the conductance estimate is less affected by these limitations than is the depth estimate, but both should be considered as relative rather than absolute guides to the anomaly's properties.

Conductance in mhos is the reciprocal of resistance in ohms and in the case of narrow slab-like bodies is the product of electrical conductivity and thickness.

The higher ranges of conductance, greater than 2-4 mhos, indicate that a significant fraction of the electrical conduction is electronic rather than electrolytic in nature. Materials that conduct electronically are limited to certain metallic sulphides and to graphite. High conductance anomalies, roughly 10 mhos or greater, are generally limited to massive sulphides or graphites.

Sulphide minerals, with the exception of such ore minerals as sphalerite, cinnabar and stibnite, are good conductors. Sulphides may occur in a disseminated manner that inhibits electrical conduction through the rock mass. In this case the apparent conductance can seriously underrate the quality of the conductor in geological terms. In a similar sense the relatively non-conducting sulphide minerals noted above may be present in significant concentrations in association with minor conductive sulphides, and the electromagnetic response will only relate to the minor associated mineralization. Indicated conductance is also of little direct significance for the identification of gold mineralization. Although gold is highly conductive, it would not be expected to exist in sufficient quantity to create a recognizable anomaly. Minor accessory sulphide mineralization may however provide a useful indirect indication.

In summary, the estimated conductance of a conductor can provide a relatively positive identification of significant sulphide or graphite mineralization. A moderate to low conductance value does not rule out the possibility of significant economic mineralization.

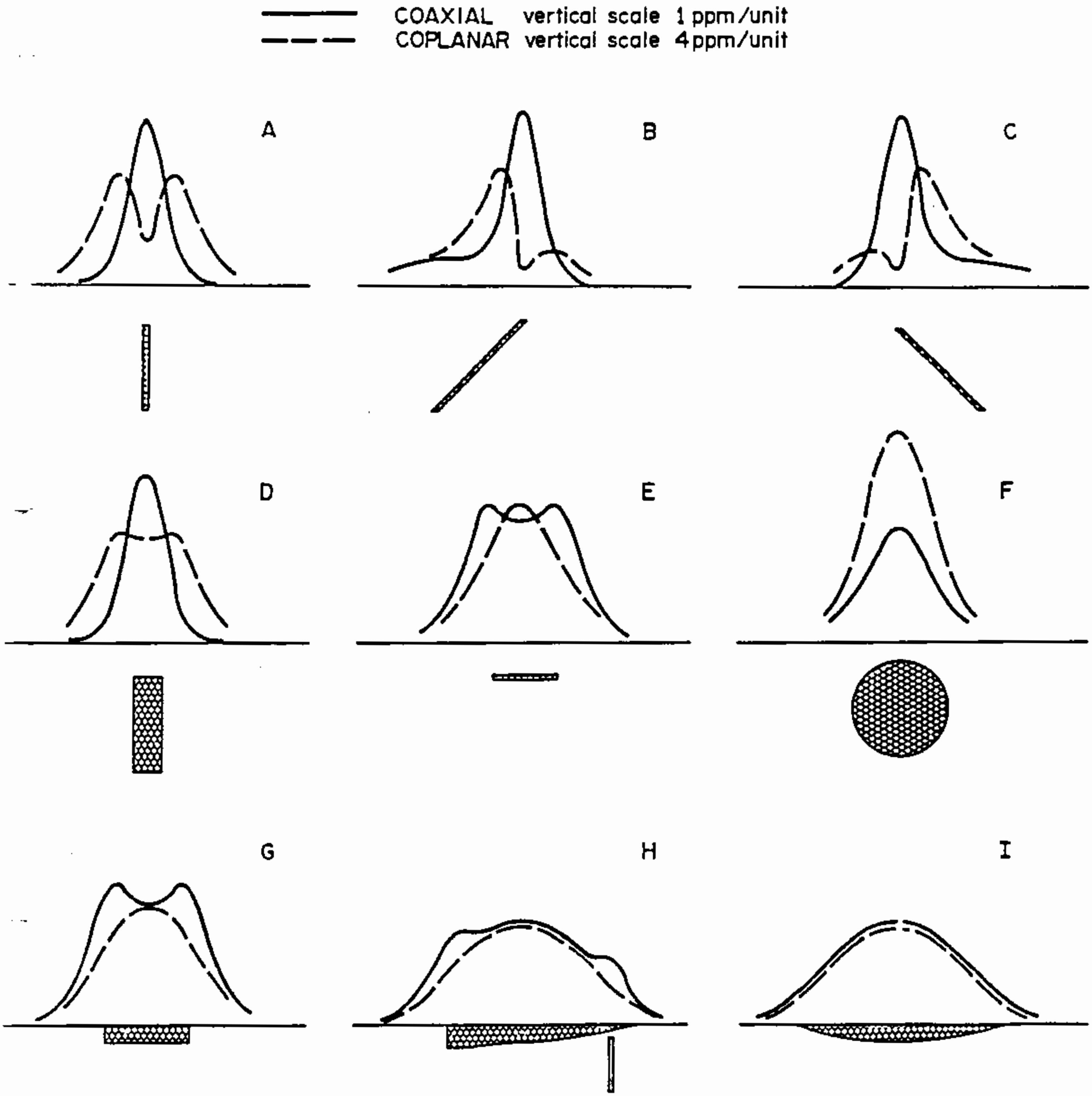
Geometrical Considerations

Geometrical information about the geologic conductor can often be interpreted from the profile shape of the anomaly. The change in shape is primarily related to the change in inductive coupling among the transmitter, the target, and the receiver. The accompanying figure shows a selection of HEM response profile shapes from nine idealized targets. Response profiles are labelled A through I. These labels are used in the discussion which follows.

In the case of a thin, steeply dipping, sheet-like conductor, the coaxial coil pair will yield a near symmetric peak over the conductor. On the other hand, the coplanar coil pair will pass through a null couple relationship and yield a minimum over the conductor, flanked by positive side lobes (Profile A). As the dip of the conductor decrease from vertical, the coaxial anomaly shape changes only slightly, but in the case of the coplanar coil pair the side lobe on the down dip side strengthens relative to that on the up dip side (Profiles B and C).

As the thickness of the conductor increases, induced current flow across the thickness of the

HEM RESPONSE PROFILE SHAPE AS AN INDICATOR OF CONDUCTOR GEOMETRY



conductor becomes relatively significant and complete null coupling with the coplanar coils is no longer possible (Profile D). As a result, the apparent minimum of the coplanar response over the conductor diminishes with increasing thickness, and in the limiting case of a fully 3 dimensional body or a horizontal layer or half-space, the minimum disappears completely.

A horizontal conducting layer such as a horizontal thin sheet or overburden will produce a response in the coaxial and coplanar coils that is a function of altitude (and conductivity if not uniform). The profile shape will be similar in both coil configurations with an amplitude ratio (coplanar:coaxial) of about 4:1* (Profiles E and G).

In the case of a spherical conductor, the induced currents are confined to the volume of the sphere, but not relatively restricted to any arbitrary plane as in the case of a sheet-like form. The response of the coplanar coil pair directly over the sphere may be up to 8* times greater than that of the coaxial pair (Profile F).

In summary, a steeply dipping, sheet-like conductor will display a decrease in the coplanar response coincident with the peak of the coaxial response. The relative strength of this coplanar null is related inversely to the thickness of the conductor. A pronounced null indicates a relatively thin conductor. The dip of such a conductor can be inferred from the relative amplitudes of the side-lobes.

Massive conductors that could be approximated by a conducting sphere will display a simple single peak profile form on both coaxial and coplanar coils, with a ratio between the coplanar to coaxial response amplitudes as high as 8*.

Overburden anomalies often produce broad poorly defined anomaly profiles (Profile I). In most cases, the response of the coplanar coils closely follows that of the coaxial coils with a relative amplitude ration of 4*.

Occasionally, if the edge of an overburden zone is sharply defined with some significant depth extent, an edge effect will occur in the coaxial coils. In the case of a horizontal conductive ring or ribbon, the coaxial response will consist of two peaks, one over each edge; whereas the coplanar coil will yield a single peak (Profile H).

* It should be noted at this point that Aerodat's definition of the measured ppm unit is related to the primary field sensed in the receiving coil without normalization to the maximum coupled (coaxial configuration). If such normalization were applied to the Aerodat units, the amplitude of the coplanar coil pair would be halved.

Magnetics

The Total Field Magnetic Map shows contours of the total magnetic field, uncorrected for regional variation. Whether an EM anomaly with a magnetic correlation is more likely to be caused by a sulphide deposit than one without depends on the type of mineralization. An apparent coincidence between an EM and a magnetic anomaly may be caused by a conductor which is also magnetic, or by a conductor which lies in close proximity to a magnetic body. The majority of conductors which are also magnetic are sulphides containing pyrrhotite and/or magnetite. Conductive and magnetic bodies in close association can be, and often are, graphite and magnetite. It is often very difficult to distinguish between these cases. If the conductor is also magnetic, it will usually produce an EM anomaly whose general pattern resembles that of the magnetics. Depending on the magnetic permeability of the conducting body, the amplitude of the inphase EM anomaly will be weakened, and if the conductivity is also weak, the inphase EM anomaly may even be reversed in sign.

The interpretation of contoured aeromagnetic data is a subject on its own involving an array of methods and attitudes. The interpretation of source characteristics for example from total field results is often based on some numerical modelling scheme. The vertical gradient data is more legible in some aspects however and useful inferences about source characteristics can often be read off the contoured VG map.

The zero contour lines in contoured VG data are often sited as a good approximation to the outline of the top of the magnetic source. This only applies to wide (relative to depth of burial) near vertical sources at high magnetic latitudes. It will give an incorrect interpretation in most other cases.

Theoretical profiles of total field and vertical gradient anomalies from tabular sources at a variety of magnetic inclinations are shown in the attached figure. Sources are 10, 50 and 200 m wide. The source-sensor separation is 50 m. The thin line is the total field profile. The thick line is the vertical gradient profile.

The following comments about source geometry apply to contoured vertical gradient data for magnetic inclinations of 70 to 80°.

Outline

Where the VG anomaly has a single sharp peak, the source may be a thin near-vertical tabular source. It may be represented as a magnetic axis or as a tabular source of measurable width - the choice is one of geological preference.

Where the VG anomaly has a broad, flat or inclined top, the source may be a thick tabular source. It may be represented as a thick body where the width is taken from the zero contour lines if the body dips to magnetic north. If the source appears to be dipping to the south (i.e. the VG anomaly is asymmetric), the zero contours are less reliable indicators of outline. The southern most zero contour line should be ignored and the outline taken from the northern zero contour line and the extent of the anomaly peak width.

Dip

A symmetrical vertical gradient response is produced by a body dipping to magnetic north. An asymmetrical response is produced by a body which is vertical or dipping to the south. For southern dips, the southern most zero contour line may be several hundred meters south of the source.

Depth of Burial

The source-sensor separation is about equal to half of the distance between the zero contour lines for thin near-vertical sources. The estimated depth of burial for such sources is this separation minus 50 m. If a variety of VG anomaly widths are seen in an area, use the narrowest width seen to estimate local depths.

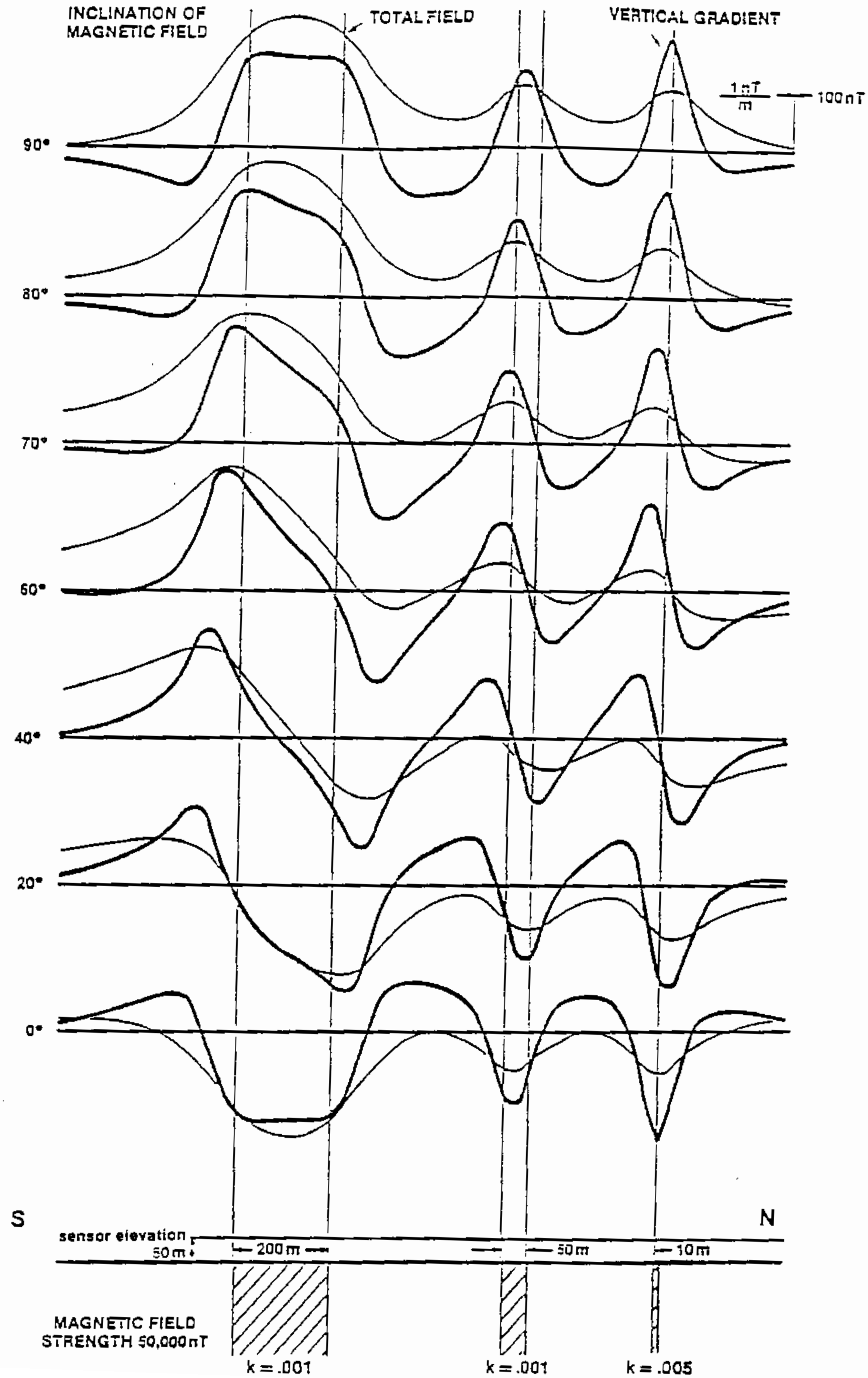
VLF Electromagnetics

The VLF-EM method employs the radiation from powerful military radio transmitters as the primary signals. The magnetic field associated with the primary field is locally horizontal and normal to a line pointing at the transmitter.

The Herz Totem uses three coils in the X, Y, Z configuration to measure the total field and vertical quadrature component from two VLF stations. These stations are designated Line and Ortho. The line station is ideally in a direction from the survey area at right angles to the flight line direction. Conductors normal to the flight line direction point at the line station and are therefore optimally coupled to VLF magnetic fields and in the best situation to gather secondary VLF currents. The ortho station is ideally 90 degrees in azimuth from the line station.

The relatively high frequency of VLF (15-25) kHz provides high response factors for bodies of low conductance. Relatively "disconnected" sulphide ores have been found to produce measurable VLF signals. For the same reason, poor conductors such as sheared contacts, breccia zones, narrow faults, alteration zones and porous flow tops normally produce VLF anomalies. The method can therefore be used effectively for geological mapping. The only relative disadvantage of the method lies in its sensitivity to conductive overburden. In conductive ground to depth of exploration is severely limited.

The effect of strike direction is important in the sense of the relation of the conductor axis relative to the energizing electromagnetic field. A conductor aligned along a radius drawn from a transmitting station will be in a maximum coupled orientation and thereby produce a stronger response than a similar conductor at a different strike angle. Theoretically, it would be possible for a conductor, oriented tangentially to the transmitter to produce no signal. The most obvious effect of the strike angle consideration is that conductors favourably oriented with respect to the transmitter location and also near perpendicular to the flight direction are most clearly rendered and usually dominate the map presentation.



INCLINATION OF MAGNETIC FIELD
TOTAL FIELD
VERTICAL GRADIENT
1 nT / m
100 nT
90°
80°
70°
60°
40°
20°
0°
S
N
sensor elevation 50 m
200 m
50 m
10 m
MAGNETIC FIELD STRENGTH 50,000 nT
k = .001
k = .001
k = .005

The total field anomaly is an indicator of the existence and position of a conductor. The response will be a maximum over the conductor, without any special filtering, and strongly favour the upper edge of the conductor even in the case of a relatively shallow dip.

Conversely a negative total field anomaly is often seen over local resistivity highs. This is because the VLF field produces electrical currents which flow towards (or away from) the transmitter. These currents are gathered into a conductor and are taken from resistive bodies. The VLF system sees the currents gathered into the conductor as a total field high. It sees the relative absence of secondary currents in the resistor as a total field low.

As noted, VLF anomaly trends show a strong bias towards the VLF transmitter. Structure which is normal to this direction may have no associated VLF anomaly but may be seen as a break or interruption in VLF anomalies. If these structures are of particular interest, maps of the ortho station data may be worthwhile.

Conductive overburden will obscure VLF responses from bedrock sources and may produce low amplitude, broad anomalies which reflect variations in the resistivity of thickness of the overburden.

Extreme topographic relief will produce VLF anomalies which may bear no relationship to variations in electrical conductivity. Deep gullies which are too narrow to have been surveyed at a uniform sensor height often show up as VLF total field lows. Sharp ridges show up as total field highs.

The vertical quadrature component over steeply dipping sheet-like conductor will be a cross-over type response with the cross-over closely associated with the upper edge of the conductor.

The response is a cross-over type due to the fact that it is the vertical rather than total field quadrature component that is measured. The response shape is due largely to geometrical rather than conductivity considerations and the distance between the maximum and minimum on either side of the cross-over is related to target depth. For a given target geometry, the larger this distance the greater the depth.

The vertical quadrature component is rarely presented. Experience has shown the total field to be more sensitive to bedrock conductors and less affected by variations in conductive overburden.

APPENDIX II

ANOMALY LISTINGS

NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
3	10010	A	0	-12.5	6.0	0.0	0	22	674503.4	6273156.0
3	10010	B	0	2.9	45.0	0.0	0	23	673421.8	6272508.0
3	10010	C	0	-2.0	14.0	0.0	0	26	673312.8	6272440.5
3	10021	A	0	-4.5	5.8	0.0	0	28	672766.8	6271828.0
3	10021	B	0	-4.6	11.7	0.0	0	31	672959.1	6271950.0
3	10021	C	0	3.8	21.8	0.0	0	32	673357.6	6272239.0
3	10021	D	0	3.5	21.1	0.0	0	30	673425.6	6272280.0
3	10021	E	0	-8.2	6.8	0.0	0	25	673590.5	6272381.0
3	10030	A	0	1.0	9.6	0.0	0	42	673587.6	6272086.5
3	10030	B	0	2.9	12.9	0.0	0	42	673532.3	6272052.0
3	10030	C	0	3.6	11.4	0.1	0	44	673458.0	6272004.0
3	10040	A	0	-48.1	4.8	0.0	0	24	672429.6	6271110.0
3	10040	B	0	-124.5	10.7	0.0	0	21	672501.6	6271162.0
3	10040	C	0	6.9	28.2	0.1	0	34	673506.5	6271708.5
3	10040	D	0	6.7	34.6	0.0	0	28	673623.5	6271778.5
3	10040	E	0	4.4	33.6	0.0	0	26	673669.8	6271807.5
3	10040	F	0	1.5	33.7	0.0	0	25	673721.4	6271840.5
3	10050	A	0	-23.2	3.0	0.0	0	35	675076.0	6272393.0
3	10050	B	0	-1.3	13.4	0.0	0	38	673760.6	6271683.0
3	10050	C	0	3.6	16.7	0.0	0	41	673660.0	6271620.5
3	10050	D	0	3.7	9.5	0.1	0	51	673553.3	6271554.0
3	10060	A	0	4.9	12.7	0.1	0	45	673628.6	6271240.5
3	10060	B	0	0.8	12.6	0.0	0	35	673752.4	6271313.0
3	10060	C	0	-0.5	14.6	0.0	0	31	673835.2	6271359.5
3	10060	D	0	-63.4	4.3	0.0	0	8	675181.9	6272167.5
3	10071	A	0	-0.9	7.3	0.0	0	40	673810.3	6271034.5
3	10071	B	0	1.1	12.3	0.0	0	40	673704.4	6270973.0
3	10080	A	0	1.4	5.4	0.0	0	64	673765.3	6270679.0
3	10080	B	0	-1.9	6.9	0.0	0	34	673919.6	6270783.5
3	10080	C	0	-3.7	6.7	0.0	0	29	674005.8	6270844.0
3	10080	D	0	-8.7	4.8	0.0	0	25	674119.1	6270924.0
3	10081	A	0	-4.4	5.3	0.0	0	33	675985.4	6272054.0
3	10081	B	0	-2.8	12.9	0.0	0	29	676039.4	6272089.5
3	10090	A	0	6.0	21.5	0.1	0	35	673786.8	6270446.0
3	10090	B	0	3.0	13.8	0.0	0	33	673695.3	6270389.0

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
3	10100	A	0	-3.0	6.8	0.0	0	36	673612.3	6270043.5
3	10100	B	0	1.5	8.3	0.0	0	44	673712.7	6270097.5
3	10100	C	0	4.0	13.7	0.1	0	49	673831.2	6270162.0
3	10111	A	0	-3.8	5.1	0.0	0	33	674117.6	6270037.5
3	10111	B	0	2.8	20.8	0.0	0	31	673907.8	6269922.5
3	10111	C	0	0.7	10.1	0.0	0	35	673793.5	6269858.0
3	10120	A	0	2.6	8.1	0.1	0	43	673952.0	6269680.0
3	10120	B	0	2.4	5.0	0.1	15	43	674206.5	6269848.5
3	10130	A	0	-0.8	6.1	0.0	0	29	674785.9	6269880.5
3	10130	B	0	-0.8	6.4	0.0	0	24	674742.4	6269853.5
3	10130	C	0	-0.9	6.4	0.0	0	16	674693.5	6269824.5
3	10130	D	0	-3.7	40.5	0.0	0	16	674252.1	6269567.0
3	10130	E	0	2.3	14.5	0.0	0	31	673965.4	6269377.0
3	10130	F	0	0.3	6.7	0.0	0	38	673831.9	6269285.5
3	10141	A	0	0.7	7.5	0.0	0	48	673821.1	6269060.0
3	10141	B	0	3.8	19.0	0.0	0	30	674005.7	6269159.0
3	10141	C	0	2.0	12.0	0.0	0	33	674123.6	6269222.0
3	10141	D	0	1.9	7.9	0.0	5	35	674195.8	6269262.5
3	10141	E	0	1.4	9.5	0.0	4	28	674291.9	6269319.0
3	10141	F	0	-1.4	5.7	0.0	0	35	675066.1	6269776.5
3	10150	A	0	-11.5	5.1	0.0	0	23	676797.5	6270465.5
3	10150	B	0	1.1	15.2	0.0	0	28	674188.3	6268948.0
3	10150	C	0	3.5	17.9	0.0	0	32	674004.2	6268837.0
3	10150	D	0	1.8	13.3	0.0	0	28	673798.1	6268712.5
2	10160	A	0	-35.4	4.8	0.0	0	17	677056.9	6270395.5
2	10160	B	0	-2.5	16.2	0.0	0	24	674187.9	6268677.0
2	10160	C	0	4.1	16.4	0.0	0	36	674050.2	6268596.5
2	10160	D	0	2.0	5.0	0.1	13	42	673867.6	6268493.5
2	10160	E	0	-41.2	4.0	0.0	0	11	671195.9	6266868.5
2	10160	F	0	0.0	11.9	0.0	0	38	669895.7	6266078.0
2	10160	G	0	-4.3	19.2	0.0	0	17	669824.3	6266024.0
2	10170	A	0	0.1	6.7	0.0	0	32	669980.9	6265791.5
2	10170	B	0	1.6	6.7	0.0	10	32	670096.0	6265868.0
2	10170	D	0	1.0	10.0	0.0	0	41	673871.4	6268180.5
2	10170	E	0	0.7	9.0	0.0	0	26	673955.3	6268230.0
2	10170	C	0	-8.9	6.3	0.0	0	7	670326.3	6266042.0
2	10170	F	0	1.6	17.1	0.0	0	31	674069.3	6268297.5

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
2	10170	G	0	-14.4	4.4	0.0	0	22	675661.0	6269249.0
2	10180	A	0	-6.1	20.2	0.0	0	24	674161.6	6268046.0
2	10180	B	0	2.4	9.2	0.0	0	41	674077.6	6268009.0
2	10180	C	0	1.9	16.5	0.0	0	29	673921.1	6267932.5
2	10180	D	0	0.3	7.6	0.0	0	54	671712.6	6266587.5
2	10180	E	0	0.0	11.4	0.0	0	31	671425.3	6266407.5
2	10180	F	0	-0.6	11.1	0.0	0	34	671346.4	6266357.5
2	10190	A	0	-0.6	25.0	0.0	0	19	673973.2	6267683.0
2	10190	B	0	10.8	23.1	0.3	1	32	674159.2	6267756.0
2	10190	C	0	3.0	9.6	0.1	2	38	674250.4	6267817.5
2	10200	A	0	-2.2	7.2	0.0	0	38	677357.2	6269402.5
2	10200	B	0	3.0	9.7	0.1	0	44	674304.6	6267560.5
2	10200	C	0	8.5	22.2	0.2	0	53	674196.6	6267504.5
2	10200	D	0	6.3	11.9	0.3	2	41	674012.6	6267400.0
2	10200	E	0	-4.0	9.3	0.0	0	18	671572.4	6265902.0
2	10200	F	0	-0.3	12.4	0.0	0	24	671425.8	6265820.5
2	10200	G	0	-1.7	24.1	0.0	0	24	671292.4	6265741.5
2	10200	H	0	-2.4	11.7	0.0	0	23	671042.8	6265591.0
2	10210	A	0	-1.9	39.8	0.0	0	23	673502.6	6266779.5
2	10210	B	0	3.0	31.4	0.0	0	25	673981.0	6267133.5
2	10210	C	0	4.8	21.4	0.0	0	29	674048.4	6267175.5
2	10210	D	0	6.3	13.3	0.2	4	37	674167.6	6267243.0
2	10210	E	0	4.2	11.5	0.1	0	41	674343.5	6267343.0
2	10210	F	0	-2.7	3.6	0.0	0	39	676753.8	6268740.0
2	10210	G	0	-0.8	3.4	0.0	0	51	677491.8	6269174.5
2	10210	H	0	-24.4	7.4	0.0	0	8	677788.1	6269336.0
2	10210	J	0	-32.9	9.7	0.0	0	13	677853.3	6269368.5
1	10220	A	0	-0.7	4.4	0.0	0	37	676974.4	6268626.5
1	10220	B	0	-1.0	5.1	0.0	0	37	676937.0	6268605.0
1	10220	C	0	4.1	52.7	0.0	0	20	674410.0	6267006.0
1	10220	D	0	16.8	39.1	0.4	0	37	674220.8	6266904.0
1	10220	E	0	-94.4	7.7	0.0	0	15	672837.8	6266101.5
1	10220	F	0	-54.8	6.6	0.0	0	20	672718.0	6266026.5
1	10220	G	0	-7.1	5.3	0.0	0	17	670902.3	6264921.0
1	10230	A	0	0.0	5.8	0.0	0	42	673958.0	6266458.0
1	10230	B	0	0.9	3.8	0.0	0	55	674126.4	6266584.5
1	10230	C	0	3.2	5.3	0.2	0	63	674255.4	6266681.0
1	10230	D	0	-70.6	5.9	0.0	0	17	675071.8	6267157.5
1	10230	E	0	-94.5	10.2	0.0	0	22	677939.7	6268878.5

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
1	10240	A	0	4.7	23.3	0.0	1	25	674532.9	6266566.0
1	10240	B	0	7.8	24.8	0.1	0	40	674457.0	6266522.5
1	10240	C	0	6.9	10.2	0.5	6	43	674348.5	6266456.0
1	10240	D	0	13.6	34.6	0.3	0	32	674187.6	6266359.0
1	10240	E	0	22.5	51.0	0.4	0	33	674137.4	6266328.5
1	10240	F	0	5.5	21.0	0.1	0	31	673930.5	6266197.0
1	10240	G	0	1.1	6.2	0.0	0	49	671242.5	6264616.5
1	10240	H	0	1.7	9.2	0.0	0	39	671112.1	6264521.5
1	10240	J	0	-0.4	9.3	0.0	0	27	670753.8	6264267.0
1	10250	A	0	-36.4	6.9	0.0	0	18	672925.8	6265330.0
1	10250	B	0	-1.5	5.0	0.0	0	29	673170.1	6265481.5
1	10250	C	0	6.3	19.7	0.1	0	36	674005.1	6266003.0
1	10250	D	0	2.4	10.9	0.0	0	37	674080.9	6266042.0
1	10250	E	0	2.1	7.4	0.0	8	35	674248.1	6266127.5
1	10250	F	0	2.5	8.5	0.0	6	35	674314.8	6266162.0
1	10250	G	0	7.3	20.9	0.2	0	33	674528.3	6266273.0
1	10250	H	0	5.9	16.8	0.1	0	34	674649.9	6266341.0
1	10250	J	0	3.5	10.7	0.1	6	33	674720.3	6266383.5
1	10250	K	0	-2.0	6.7	0.0	0	25	675035.3	6266574.5
1	10251	A	0	-13.1	26.4	0.0	0	29	678287.9	6268456.0
1	10260	A	0	-26.5	7.2	0.0	0	15	676759.6	6267277.0
1	10260	B	0	-6.3	7.5	0.0	0	31	676654.0	6267207.5
1	10260	C	0	-4.5	3.9	0.0	0	28	676498.5	6267108.5
1	10260	D	0	3.8	8.0	0.2	0	49	674827.8	6266127.5
1	10260	E	0	1.4	6.6	0.0	0	49	674712.3	6266054.0
1	10260	F	0	1.3	11.0	0.0	0	35	674554.0	6265953.0
1	10260	G	0	3.4	9.3	0.1	8	35	674049.1	6265607.0
1	10260	H	0	-1.3	7.0	0.0	0	33	671506.4	6264153.0
1	10260	J	0	0.6	10.4	0.0	0	29	671348.8	6264051.0
1	10260	K	0	-0.1	12.1	0.0	0	25	670999.2	6263866.5
1	10270	A	0	0.5	6.0	0.0	0	31	671642.3	6263928.5
1	10270	B	0	-0.5	6.8	0.0	0	33	673941.4	6265300.0
1	10270	C	0	-1.1	14.2	0.0	0	31	674682.1	6265778.0
1	10270	D	0	3.1	8.7	0.1	4	40	674961.2	6265945.0
1	10271	A	0	-44.9	5.1	0.0	0	11	677747.7	6267524.5
1	10271	B	0	-41.0	4.7	0.0	0	19	677849.4	6267584.5
1	10280	A	0	6.4	11.6	0.3	0	48	675167.5	6265770.5
1	10280	B	0	4.4	7.7	0.3	2	50	675045.4	6265694.5

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
1	10280	C	0	1.3	9.3	0.0	5	27	674224.7	6265186.0
1	10280	D	0	2.3	10.9	0.0	9	25	674113.4	6265118.0
1	10280	E	0	0.9	6.9	0.0	2	32	673976.2	6265035.5
1	10290	A	0	-0.7	8.2	0.0	0	34	672671.4	6263938.5
1	10290	B	0	-7.5	6.3	0.0	0	26	672882.5	6264061.5
1	10290	C	0	-5.6	6.2	0.0	0	32	672962.7	6264109.0
1	10290	D	0	0.2	6.8	0.0	0	36	674026.9	6264770.5
1	10290	E	0	1.8	15.4	0.0	0	36	674279.1	6264930.0
1	10290	F	0	0.6	9.9	0.0	0	41	674419.3	6265015.0
1	10290	G	0	21.8	30.1	0.8	0	37	675316.3	6265554.0
1	10290	H	1	24.1	31.2	1.0	0	40	675409.8	6265610.0
1	10290	J	0	19.3	29.0	0.7	0	40	675480.1	6265652.0
1	10290	K	0	2.3	12.9	0.0	0	35	675993.3	6265940.5
1	10290	M	0	-13.0	3.0	0.0	0	29	677727.3	6266985.0
1	10290	N	0	-14.8	5.4	0.0	0	30	677901.4	6267093.5
1	10300	A	0	0.0	5.1	0.0	0	30	678374.2	6267070.5
1	10300	B	0	2.4	7.1	0.1	13	33	677211.8	6266392.0
1	10300	C	0	3.7	12.2	0.1	3	34	676799.9	6266161.5
1	10300	D	0	-14.6	16.0	0.0	0	34	676416.6	6265946.5
1	10300	E	0	-14.2	17.4	0.0	0	37	676313.4	6265885.5
1	10300	F	0	14.5	23.9	0.5	0	40	675693.1	6265496.5
1	10300	G	0	13.5	27.6	0.4	0	35	675601.3	6265439.0
1	10300	H	0	2.2	13.4	0.0	0	32	674716.2	6264919.5
1	10300	J	0	4.3	20.4	0.0	0	28	674608.1	6264853.0
1	10300	K	0	6.6	28.7	0.1	0	27	674499.4	6264787.0
1	10300	M	0	3.3	14.0	0.0	4	28	674406.3	6264730.0
1	10300	N	0	2.1	6.9	0.0	12	33	674187.4	6264593.5
1	10300	O	0	2.3	9.2	0.0	5	33	674120.5	6264549.5
2	10310	A	0	0.0	5.5	0.0	0	29	678400.4	6266804.5
2	10310	B	0	4.3	25.0	0.0	0	29	677194.9	6266069.0
2	10310	C	0	4.9	29.0	0.0	0	29	677109.1	6266018.0
2	10310	D	0	6.4	28.5	0.1	0	27	676991.6	6265949.5
2	10310	E	0	2.6	8.4	0.0	2	40	675960.6	6265386.0
2	10310	F	0	10.2	16.2	0.5	1	40	675861.4	6265330.0
2	10310	G	0	10.2	15.6	0.5	0	42	675785.0	6265285.5
2	10320	A	0	5.6	10.5	0.3	10	36	675986.5	6265075.5
2	10320	B	0	10.2	17.4	0.4	5	34	676062.1	6265118.5
2	10320	C	1	30.5	38.8	1.1	0	31	676186.3	6265190.0
2	10320	D	0	21.8	29.4	0.9	3	31	676249.6	6265227.0
2	10320	E	0	3.0	15.2	0.0	0	31	676369.6	6265299.0
2	10320	F	0	7.2	25.7	0.1	0	30	676426.6	6265334.0

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
2	10320	G	0	3.9	12.4	0.1	0	44	677312.6	6265855.0
2	10320	H	0	-0.7	8.3	0.0	0	35	678355.2	6266437.0
2	10330	A	0	-3.0	7.6	0.0	0	28	678460.3	6266294.0
2	10330	B	0	-3.4	5.5	0.0	0	37	678376.6	6266245.5
2	10330	C	0	-0.3	12.3	0.0	0	27	677777.5	6265881.5
2	10330	D	0	-4.0	16.2	0.0	0	18	677666.8	6265809.5
2	10330	E	0	5.6	52.9	0.0	0	24	677425.3	6265652.0
2	10330	F	0	5.6	19.3	0.1	0	44	676625.4	6265194.0
2	10330	G	1	37.1	37.0	1.6	1	32	676392.0	6265047.0
2	10330	H	0	18.6	35.8	0.5	0	37	676065.1	6264835.5
2	10330	J	0	26.2	48.8	0.6	0	36	675986.3	6264784.5
2	10330	K	0	17.9	46.5	0.3	0	32	675918.3	6264740.0
2	10330	M	0	17.9	56.8	0.2	0	27	675838.9	6264687.5
2	10330	N	0	16.4	39.0	0.3	0	28	675793.6	6264658.0
2	10330	O	0	-2.1	13.6	0.0	0	24	675512.8	6264479.0
2	10330	P	0	-0.7	17.5	0.0	0	25	675442.1	6264436.5
2	10340	A	0	5.1	17.5	0.1	0	46	675572.9	6264264.5
2	10340	B	0	1.5	24.2	0.0	0	36	675640.7	6264307.5
2	10340	C	0	1.1	12.7	0.0	0	36	675703.9	6264346.5
2	10340	D	0	5.6	12.4	0.2	3	38	675828.8	6264423.0
2	10340	E	0	8.3	17.6	0.3	0	37	675981.3	6264512.0
2	10340	F	0	6.8	15.3	0.2	1	37	676060.4	6264557.5
2	10340	G	0	5.6	18.5	0.1	0	32	676456.6	6264783.5
2	10340	H	1	22.0	25.3	1.1	1	36	676688.0	6264931.5
2	10340	J	0	7.2	14.3	0.3	1	39	676814.7	6265019.0
2	10340	K	0	3.0	12.3	0.0	0	61	677524.7	6265434.0
2	10340	M	0	2.2	23.6	0.0	0	21	677876.8	6265632.5
2	10351	A	0	-57.9	13.4	0.0	0	11	678166.7	6265554.5
2	10351	B	0	2.3	14.1	0.0	0	48	677662.1	6265237.0
2	10351	C	1	14.3	14.7	1.1	4	41	677115.9	6264832.0
2	10351	D	0	16.1	20.3	0.8	6	33	677041.1	6264786.0
2	10351	E	0	3.2	9.5	0.1	11	30	676660.4	6264552.0
2	10351	F	0	3.2	14.6	0.0	5	26	676344.4	6264377.0
2	10351	G	0	1.9	11.6	0.0	3	28	675985.4	6264185.0
2	10351	H	0	7.4	19.4	0.2	0	42	675703.3	6264014.5
2	10351	J	0	8.8	19.0	0.3	0	37	675627.5	6263967.0
2	10360	A	0	1.1	12.3	0.0	0	40	676335.5	6264132.5
2	10360	B	0	2.6	11.9	0.0	0	49	676478.6	6264211.0
2	10362	A	0	0.9	3.7	0.0	18	35	678276.1	6265289.0
2	10362	B	0	0.4	3.6	0.0	11	30	678317.9	6265310.0

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
2	10372	A	0	-15.9	4.1	0.0	0	20	678807.3	6265205.0
2	10373	A	0	7.6	7.8	0.8	10	47	677089.1	6264265.0
2	10374	A	0	0.3	12.6	0.0	0	37	676965.0	6264150.0
2	10374	B	0	0.0	9.9	0.0	0	23	676828.0	6264069.5
2	10374	C	0	2.2	20.3	0.0	0	36	676674.9	6263986.5
2	10374	D	0	3.6	19.8	0.0	0	36	676622.1	6263958.0
2	10374	E	1	29.2	31.5	1.3	0	50	676069.8	6263659.5
4	10400	A	0	1.8	12.5	0.0	7	22	676743.1	6263221.0
4	10400	B	1	5.3	2.8	1.9	0	116	677471.1	6263656.5
4	10400	C	0	3.7	5.1	0.4	8	55	677720.4	6263768.5
6	10410	A	0	4.6	23.5	0.0	2	23	677901.4	6263590.0
6	10410	B	0	4.4	11.4	0.1	18	22	677815.1	6263549.0
6	10410	C	0	3.9	12.1	0.1	21	17	677570.4	6263397.5
6	10410	D	0	6.4	14.5	0.2	5	34	676990.4	6263090.0
6	10410	E	0	4.2	10.0	0.2	12	31	676869.3	6263015.5
6	10410	F	0	5.3	10.1	0.3	0	47	676766.9	6262944.5
6	10420	A	0	1.0	10.2	0.0	0	37	676603.2	6262489.0
6	10420	B	0	0.7	10.0	0.0	0	29	676681.9	6262530.0
6	10420	C	0	1.6	16.9	0.0	0	29	676840.8	6262618.0
6	10420	D	0	2.2	13.6	0.0	0	40	676916.7	6262665.5
6	10420	E	0	9.7	26.7	0.2	0	42	677081.4	6262781.5
6	10420	F	0	7.8	17.4	0.3	3	33	677173.6	6262849.0
6	10420	G	0	4.9	15.2	0.1	0	53	677254.9	6262905.5
6	10420	H	0	1.3	15.8	0.0	0	29	677336.8	6262956.5
6	10420	J	0	3.4	10.9	0.1	16	23	677545.7	6263072.5
6	10420	K	0	-7.8	14.2	0.0	0	28	677891.6	6263284.0
6	10420	M	0	-9.7	12.5	0.0	0	28	677930.1	6263304.0
6	10420	N	0	0.0	12.5	0.0	0	29	678121.3	6263405.5
4	10431	A	0	-14.4	3.9	0.0	0	20	680588.7	6264597.5
4	10440	A	0	9.8	18.4	0.4	4	33	676745.9	6262041.5
4	10440	B	0	11.1	21.7	0.4	2	33	676853.2	6262100.0
4	10440	C	0	0.3	4.1	0.0	0	43	677966.5	6262763.5
4	10440	D	0	-0.2	6.0	0.0	0	33	678090.1	6262841.0
4	10452	A	0	1.9	8.1	0.0	5	34	678071.1	6262539.0
4	10452	B	0	3.4	15.3	0.0	2	29	678005.8	6262500.5
4	10452	C	0	3.7	10.3	0.1	16	25	677909.3	6262444.5

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NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
4	10452	D	0	1.7	11.0	0.0	9	22	677692.4	6262309.0
4	10452	E	0	21.6	42.1	0.5	0	39	677123.6	6261935.0
4	10452	F	0	16.1	27.5	0.5	0	42	677055.8	6261897.0
4	10452	G	0	11.6	20.6	0.4	0	39	676964.3	6261848.0
4	10460	A	0	6.0	7.9	0.5	0	63	677103.4	6261685.0
4	10460	B	0	5.2	10.8	0.2	0	63	677236.0	6261761.5
5	10472	A	0	3.0	9.4	0.1	15	26	677697.8	6261705.5
5	10472	B	0	5.2	18.3	0.1	0	32	677596.4	6261636.0
5	10472	C	0	5.4	24.9	0.0	1	24	677452.6	6261543.5
5	10472	D	0	5.2	29.5	0.0	0	26	677365.1	6261490.0
5	10472	E	0	4.7	20.9	0.0	0	27	677260.1	6261427.5
5	10472	F	0	4.6	9.7	0.2	2	43	677139.7	6261356.5
5	10530	A	0	-849.6	8.7	0.0	0	6	681477.2	6262232.5
5	10530	B	0	-493.3	6.1	0.0	0	17	681439.9	6262202.0
5	10530	C	0	-156.1	2.9	0.0	0	38	681381.4	6262157.0
5	10530	D	0	2.2	6.1	0.1	11	39	679404.9	6261023.5
5	10530	E	0	1.4	7.7	0.0	9	28	678794.6	6260642.5
5	10530	F	0	1.4	8.1	0.0	1	35	678667.6	6260577.5
5	10530	G	0	1.1	6.8	0.0	4	33	678584.8	6260535.5
5	10540	A	0	14.2	54.6	0.1	0	37	678817.1	6260345.5
5	10540	B	0	-2.6	8.8	0.0	0	22	679140.9	6260570.0
5	10540	C	0	-1.9	8.9	0.0	0	23	679272.1	6260659.5
5	10540	D	0	-1.4	11.0	0.0	0	28	679423.0	6260744.0
5	10540	E	0	-0.4	8.0	0.0	0	35	679622.1	6260850.0
5	10540	F	0	-0.1	14.7	0.0	0	22	680674.5	6261452.0
6	10550	A	0	-9.2	4.8	0.0	0	35	680862.8	6261316.5
6	10550	B	0	5.6	19.1	0.1	13	18	679100.0	6260218.0
6	10550	C	0	8.6	26.5	0.2	7	21	679043.5	6260177.0
6	10550	D	0	5.5	24.1	0.0	9	17	678987.0	6260136.5
6	10560	A	0	0.0	8.4	0.0	0	35	679139.6	6259956.5
6	10570	A	0	-305.4	12.2	0.0	0	18	681967.6	6261360.5
6	10570	B	0	1.7	7.8	0.0	5	34	679374.8	6259839.5
6	10570	C	0	1.7	7.2	0.0	4	37	679182.5	6259725.5
6	10580	A	0	0.3	7.2	0.0	0	47	679892.8	6259833.0
6	10581	A	0	-59.7	4.4	0.0	0	12	682036.0	6261108.0
6	10590	A	0	-2.3	6.8	0.0	0	38	680820.6	6260135.5

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NORANDA EXPLORATION COMPANY LTD. (OMENICA AREA, BRITISH COLUMBIA)

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS		
6	10590	B	0	0.0	9.7	0.0	0	47	680668.4	6260037.5
6	10590	C	0	-3.4	8.1	0.0	0	41	680606.1	6259999.5
6	10590	D	0	-2.8	5.8	0.0	0	44	680505.3	6259940.0
6	10600	A	0	-0.2	4.7	0.0	0	34	679534.8	6259069.0
6	10600	B	0	-7.2	4.4	0.0	0	46	680485.6	6259605.0
6	10611	A	0	0.0	5.4	0.0	0	43	681212.4	6259693.5
6	10611	B	0	-3.0	7.4	0.0	0	41	680941.1	6259563.5
6	10621	A	0	-1.0	3.4	0.0	0	50	681265.1	6259490.5
6	10630	A	0	-3.9	9.2	0.0	0	45	681387.4	6259283.5
6	10630	B	0	-3.4	7.4	0.0	0	40	681134.9	6259129.0
6	10651	A	0	0.7	5.1	0.0	0	54	681677.3	6258783.5
6	10652	A	0	0.6	6.2	0.0	0	46	681675.7	6259128.5
6	10652	B	0	-0.4	6.2	0.0	0	33	681895.3	6259269.5

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

APPENDIX III

CERTIFICATE OF QUALIFICATION

I, Roderick W. Woolham of the town of Pickering, Province of Ontario, do hereby certify that:-

1. I am a geophysicist and reside at 1463 Fieldlight Blvd., Pickering, Ontario, L1V 2S3

2. I graduated from the University of Toronto in 1961 with a degree of Bachelor of Applied Science, Engineering Physics, Geophysics Option. I have been practising my profession since graduation.

3. I am a member in good standing of the following organizations: The Association of Professional Engineers of the Province of Ontario (Mining Branch); Society of Exploration Geophysicists; South African Geophysical Association.

4. I have not received, nor do I expect to receive, any interest, directly or indirectly, in the properties or securities of Noranda Exploration Company, Ltd. or any affiliate.

5. The statements contained in this report and the conclusions reached are based upon evaluation and review of maps and information supplied by Geonex Aerodat.

6. I consent to the use of this report in submissions for assessment credits or similar regulatory requirements.

R. W. Woolham, P.Eng.

Pickering, Ontario

September 24, 199[illegible]

REGISTERED PROFESSIONAL ENGINEER
R. W. WOOLHAM
PROVINCE OF ONTARIO

APPENDIX IV

PERSONNEL

FIELD

Flown	July 20 to 21, 1993
Pilot(s)	L. Stanley
Operator(s)	G. Bissonnette

OFFICE

Processing	Pierre Marchand George McDonald
Report	R. W. Woolham

APPENDIX VI

STATEMENT OF COSTS

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL AREA (KLI GROUP)   DATE: FEBRUARY, 1994

TYPE OF REPORT: GEOPHYSICS

a) Wages:
No. of Mandays : 11 mandays
Rate per Manday: $212.50/manday
Dates From : October 19 - November 7, 1993
Total Wages : 11 x $212.50 $ 2,337.50

b) Food & Accommodations:
No. of Mandays : 51 mandays
Rate per Manday: $18.00/manday
Dates From : October 19 - November 7, 1993
Total Costs : 51 x $18.00 $ 918.00

c) Transportation:
No. of Mandays : 51 mandays
Rate per Manday: $14.95/manday
Dates From : October 19 - November 7, 1993
Total Costs : 51 x $14.95 $ 762.47

d) Instrument Rental:
Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

e) Analysis:
(See attached schedule)

f) Cost of preparation of Report: $ 940.00

Author	:	2 mandays x $270.00 = $540.00
Drafting	:	1 manday x $220.00 = $220.00
Typing	:	1 manday x $180.00 = $180.00

g) Other:

Contractor:

Pacific Western Helicopters	
6.25 hours x $725.00/hour (including fuel)	$ 4,531.25
Peter E. Walcott and Associates	
10.5 mandays @ $250.00/manday	$ 2,625.00
10.5 mandays @ $350.00/manday	$ 3,675.00
TOTAL COST	**$15,789.22**

h) Unit Costs for Linecutting:

No. of Mandays	:	11 mandays	
No. of Units	:	27.1 line kms	
Unit Costs	:	$143.17/line km	
Total Cost	:	27.1 x $143.17	$ 3,880.03

i) Unit Costs for Mag:

No. of Mandays	:	40 mandays	
No. of Units	:	27.1 line km	
Unit Costs	:	$439.45/line km	
Total Cost	:	27.1 x $439.45	$11,909.19

GRAND TOTAL $15,789.22

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL (JOH 1 AND JOH 2 GROUPS)

DATE: FEBRUARY 6, 1994

TYPE OF REPORT: PHYSICAL/GEOCHEMICAL

a) Wages:
No. of Mandays : 20 mandays
Rate per Manday: $270.00/manday
Dates From : July 31 - August 21, 1993
Total Wages : 20 x $270.00 — $ 5,400.00

b) Food & Accommodations:
No. of Mandays : 40 mandays
Rate per Manday: $30.37/manday
Dates From : July 31 - August 21, 1993
Total Costs : 40 x $30.37 — $ 1,214.80

c) Transportation:
No. of Mandays : 40 mandays
Rate per Manday: $30.97/manday
Dates From : July 31 - August 21, 1993
Total Costs : 40 x $30.97 — $ 1,238.80

d) Instrument Rental:
Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

e)	Analysis: 234 samples @ $13.80/sample (See attached schedule)	$ 3,229.20
f)	Cost of preparation of Report: Author : 2 mandays x $270.00 = $540.00 Drafting: 1 manday x $220.00 = $220.00 Typing : 1 manday x $180.00 = $180.00	$ 940.00
g)	Other:	
	Contractor:	
	Pacific Western Helicopters 6.1 hours @ $725.00/hour (including fuel)	$ 4,422.50
	Belham Ltd. 134 pits 172 hours @ $148.00/hour	$25,456.00
	TOTAL COST	**$41,631.30**
h)	Unit Costs for Geochem: No. of Mandays: 20 mandays No. of Units : 234 samples Unit Costs : $53.00/sample Total Cost : 234 x $50.00	$12,402.25
i)	Unit Costs for Trenching: No. of Units : 172 hours Unit Costs : $169.94/hour Total Cost : 172 x $169.94	$29,229.05
	GRAND TOTAL	**$41,631.30**

NORANDA EXPLORATION COMPANY, LIMITED
(CORDILLERA DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: KLIYUL (JOH 1 AND JOH 2 GROUPS)

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Element) + Geochem Au	108 Soils (Pits)	$13.80	$1,490.40
	126 Rocks (Pits)	$13.80	$1,738.80
			$3,229.20

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL (KLI-UTA GROUP) DATE: FEBRUARY 6, 1994

TYPE OF REPORT: GEOLOGICAL, GEOCHEMICAL, PHYSICAL

a) Wages:
No. of Mandays : 11 mandays
Rate per Manday: $285.00/manday
Dates From : August 14 - October 8, 1993
Total Wages : 11 x $285.00 $ 3,135.00

b) Food & Accommodations:
No. of Mandays : 16 mandays
Rate per Manday: $30.37/manday
Dates From : August 14 - October 8, 1993
Total Costs : 16 x $30.37 $ 485.92

c) Transportation:
No. of Mandays : 16 mandays
Rate per Manday: $30.97/manday
Dates From : August 14 - October 8, 1993
Total Costs : 16 x $30.97 $ 495.52

d) Instrument Rental:
Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

e)	Analysis: 47 rocks @ $13.80/sample (See attached schedule)	$ 648.60
f)	Cost of preparation of Report: Author : 2 mandays x $270.00/manday = $540.00 Drafting: 1 manday x $220.00/manday = $220.00 Typing : 1 manday x $180.00/manday = $180.00	$ 940.00
g)	Other:	
	Contractor:	
	Pacific Western Helicopters 1.7 hours x $725.00/hour (including fuel)	$ 1,232.50
	Belham Ltd. 25.8 hours x $148.00/hour (20 pits)	$ 3,818.40
	TOTAL COST	**$10,755.94**
h)	Unit Costs for Trenching: No. of Mandays: 5 mandays No. of Units : 25.8 hours Unit Costs : $171.83/hour Total Cost : 25.8 x $171.83	$ 4,433.23
i)	Unit Costs for Geology: No. of Mandays: 8 mandays No. of Units : 8 mandays Unit Costs : $482.12/manday Total Cost : 8 x $482.12	$ 3,856.97
j)	Unit Costs for Geochemistry: No. of Mandays: 3 mandays No. of Units : 47 samples Unit Costs : $52.46/sample Total Cost : 47 x $52.46	$ 2,465.74
	GRAND TOTAL	**$10,755.94**

NORANDA EXPLORATION COMPANY, LIMITED
(CORDILLERA DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: KLIYUL (KLI-UTA GROUP)

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Element) + Geochem Au	17 Rocks (Pits)	$13.80	$234.60
	30 Rocks (Recce)	$13.80	$414.00
			$648.60

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL (CROYDON GROUP) DATE: FEBRUARY 4, 1994

TYPE OF REPORT: GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL & PHYSICAL

a) Wages:
No. of Mandays : 31 mandays
Rate per Manday: $233.26/manday
Dates From : July 20 - November 7, 1993
Total Wages : 31 x $233.26 $ 7,231.06

b) Food & Accommodations:
No. of Mandays : 33 mandays
Rate per Manday: $30.37/manday
Dates From : July 20 - November 7, 1993
Total Costs : 33 x $30.37 $ 1,002.21

c) Transportation:
No. of Mandays : 33 mandays
Rate per Manday: $30.97/manday
Dates From : July 20 - November 7, 1993
Total Costs : 33 x $30.97 $ 1,022.01

d) Instrument Rental:
Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

e) Analysis: 195 soils, 65 rocks @ $13.80 $ 3,588.00
(See attached schedule)

f) Cost of preparation of Report: $ 900.00
Author : 2 mandays x $250/day= $500.00
Drafting: 1 manday x $220/day = $220.00
Typing : 1 manday x $180/day = $180.00

g) Other:

Contractor:

Peter E. Walcott & Associates: 2 mandays @ $350.00 & $250.00 per	$ 600.00
Pacific Western Helicopters: $725/hour including fuel x 5.7 hours	$ 4,132.50
Belham Ltd: 34 pits; $148.00/hr x 44 hrs including mob/demob	$ 6,512.00
Geonex Aerodat Ltd: 35.65 km/415 x $35,150.00	$ 3,019.51
TOTAL COST	**$28,007.29**

h) Unit Costs for Geophysics (Mag)
No. of Mandays: 3 mandays
No. of Units : 3 km
Unit Costs : $464.32/km
Total Cost : 3 x $464.32 — $ 1,392.96

i) Unit Costs for Geophysics (Airborne)
No. of Line Km: 35.65 line km
Unit Costs : $84.70/km
Total Cost : 35.65 x $84.70 — $ 3,019.51

j) Unit Costs for Geology (including pit mapping)
No. of Mandays: 13 mandays
Unit Costs : $486.85/manday
Total Costs : 13 x $486.85 — $ 6,329.05

k) Unit Costs for Geochem
No of Units : 260 samples
Unit Costs : $32.00/sample
Total Cost : 260 x $32.00 — $ 8,319.52

l) Unit Costs for Trenching
No of Units : 44 hours (34 pits)
Unit Costs : $148.00/hour
Total Cost : 44 x $148.00 — $ 6,512.00

m) Unit Costs for Linecutting
No. of Units : 15.5 line km
Unit Cost : $157.05/line km
Total Cost : 15.5 x $157.05 — $ 2,434.25

GRAND TOTAL **$28,007.29**

NORANDA EXPLORATION COMPANY, LIMITED
(CORDILLERA DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: KLIYUL (CROYDON GROUP)

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Elements) + Geochem Au	180 Soils	$13.80	$2,484.00
ICP (30 Elements) + Geochem Au	38 Rocks	$13.80	$ 524.40
ICP (30 Elements) + Geochem Au	15 Test Pit Soils	$13.80	$ 207.00
	27 Test Pit Rocks	$13.80	$ 372.60
			$3,588.00

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL (CRO GROUP)   DATE: FEBRUARY 4, 1994

TYPE OF REPORT: GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL & PHYSICAL

a) Wages:
No. of Mandays : 12 mandays
Rate per Manday: $274.92/manday
Dates From : July 20 - November 7, 1993
Total Wages : 12 x $274.92 $ 3,299.00

b) Food & Accommodations:
No. of Mandays : 13 mandays
Rate per Manday: $30.37/manday
Dates From : July 20 - November 7, 1993
Total Costs : 13 x $30.37 $ 394.81

c) Transportation:
No. of Mandays : 13 mandays
Rate per Manday: $30.97/manday
Dates From : July 20 - November 7, 1993
Total Costs : 13 x $30.97 $ 402.61

d) Instrument Rental:
Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

e) Analysis: 25 rocks, 36 soils $ 841.80
(See attached schedule)

f) Cost of preparation of Report: $ 1,160.00
Author : 2 mandays x $270.00/mday = $540.00
Drafting: 2 mandays x $220.00/mday = $440.00
Typing : 1 manday x $180.00/mday = $180.00

g) Other:

Contractors:

Geonex Aerodat Ltd.
$106.24/415 line km x $35,150 — $ 8,998.40

Pacific Western Helicopters
2 hours @ $725.00/hour (including fuel) — $ 1,450.00

Belham Ltd.
11 pits
$148.00/hour x 14.2 hours — $ 2,101.60

TOTAL COST $18,648.22

h) Unit Costs for Linecutting:
No. of Mandays: 3 mandays
No. of Units : 9.8 line km
Unit Costs : $169.52/line km
Total Cost : 9.8 x $169.52 — $ 1,661.27

i) Unit Costs for Trenching:
No. of Mandays: 1½ mandays
No. of Units : 14.2 hours
Unit Costs : $148.00/hour
Total Cost : 14.2 x $148.00 — $ 2,101.60

j) Unit Costs for Mag:
No. of Mandays: 3 mandays
No. of Units : 8.525 line km
Unit Costs : $202.97/line km
Total Cost : 8.525 x $202.97 — $ 1,730.35

k) Unit Costs for Airborne:
No. of Units : 106 line km
Unit Costs : $84.70/line km
Total Cost : $35,150 x 106.24/415 (total AB flown) — $ 8,998.40

l) Unit Costs for Geology:
No. of Mandays: 4 mandays
No. of Units : 4
Unit Costs : $515.43/manday
Total Cost : 4 x $515.43 — $ 2,061.73

m) Unit Costs for Geochem:
No. of Mandays: 2 mandays
No. of Units : 61 samples
Unit Costs : $34.34/sample
Total Cost : 61 x $34.34 — $ 2,094.87

GRAND TOTAL $18,648.22

NORANDA EXPLORATION COMPANY, LIMITED
(CORDILLERA DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: KLIYUL (CRO GROUP)

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Element) + Geochem Au	10 Pit Rocks	$13.80	$138.00
ICP (30 Element) + Geochem Au	4 Pit Soils	$13.80	$ 55.20
ICP (30 Element) + Geochem Au	32 Recce Soils	$13.80	$441.60
ICP (30 Element) + Geochem Au	15 Recce Rocks	$13.80	$207.00
			$841.80

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL (JO GROUP) DATE: FEBRUARY 6, 1994

TYPE OF REPORT: GEOCHEMICAL, GEOPHYSICAL, PHYSICAL & GEOLOGICAL

a) Wages:
No. of Mandays : 9 mandays
Rate per Manday: $283.33/manday
Dates From : July 13 - August 21, 1993
Total Wages : 9 x $283.33 $ 2,550.00

b) Food & Accommodations:
No. of Mandays : 14 mandays
Rate per Manday: $30.37/manday
Dates From : July 13 - August 21, 1993
Total Costs : 14 x $30.37 $ 425.18

c) Transportation:
No. of Mandays : 14 mandays
Rate per Manday: $30.97/manday
Dates From : July 13 - August 21, 1993
Total Costs : 14 x $30.97 $ 433.58

d) Instrument Rental:
Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

e) Analysis: $ 1,642.20
(See attached schedule)

f) Cost of preparation of Report: $ 940.00
Author : 2 mandays x $270.00 = $540.00
Drafting: 1 manday x $220.00 = $220.00
Typing : 1 manday x $180.00 = $180.00

g) Other:

Contractors:

Pacific Western Helicopters 2.1 hours x $725.00/hour (including fuel)	$ 1,522.50
Geonex Aerodat Ltd.: (Airborne) 27.4 km/415 km x $35,150	$ 2,320.75
Belham Ltd.: (Trenching - 40 pits) 51.5 hours x $148.00/hour	$ 7,622.00
TOTAL COST	**$17,356.21**

h) Units Costs for Geochem:
No. of Mandays: 6 mandays
No. of Units : 119 samples
Unit Costs : $39.01
Total Cost : 119 x $39.01 — $ 4,641.76

i) Unit Costs for Geology:
No. of Mandays: 4 mandays
No. of Units : 4 mandays
Unit Costs : $504.69
Total Cost : 4 x $504.69 — $ 2,018.77

j) Unit Costs for Geophysics (Airborne):
No. of Units : 27.4 line km
Unit Costs : $84.70/km
Total Cost : 27.4 x $84.70 — $ 2,320.75

k) Unit Costs for Trenching (40 pits):
No. of Mandays: 4 mandays
No. of Units : 51.5 hours
Unit Costs : $162.62/hour
Total Cost : 51.5 x $162.62 — $ 8,374.93

GRAND TOTAL $17,356.21

NORANDA EXPLORATION COMPANY, LIMITED
(CORDILLERA DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: KLIYUL (JO GROUP)

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Element) + Geochem Au	33 Soils (Pits)	$13.80	$ 455.40
	36 Rocks (Pits)	$13.80	$ 496.80
	43 Soils (Recce)	$13.80	$ 593.40
	7 Rocks (Recce)	$13.80	$ 96.60
			$1,642.20

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL (GOLDWAY GROUP)   DATE: FEBRUARY 4, 1994

TYPE OF REPORT: GEOCHEMICAL/GEOPHYSICAL

a) Wages:
No. of Mandays : 14 mandays
Rate per Manday: $250.42/manday
Dates From : July 9 - October 4, 1993
Total Wages : 14 x $250.42 $ 3,505.88

b) Food & Accommodations:
No. of Mandays : 14 mandays
Rate per Manday: $30.37/manday
Dates From : July 9 - October 4, 1993
Total Costs : 14 x $30.37 $ 425.18

c) Transportation:
No. of Mandays : 14 mandays
Rate per Manday: $30.97/manday
Dates From : July 9 - October 4, 1993
Total Costs : 14 x $30.97 $ 433.58

d) Instrument Rental:
Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

Type of Instrument:
No. of Mandays :
Rate per Manday:
Dates From :
Total Costs :

e) Analysis: 178 soils and 17 rocks @ 13.80/sample $ 2,691.00
(See attached schedule)

f) Cost of preparation of Report: $ 940.00
Author : 2 mandays @ $270.00/manday = $540.00
Drafting: 1 manday @ $220.00/manday = $220.00
Typing : 1 manday @ $180.00/manday = $180.00

g) Other:

Contractor:

Geonex Aerodat Ltd.
40.2 line km x $35,150.00 $ 3,404.89
415 line km (total)

Pacific Western Helicopters
$725.00/hour (including fuel) x 2.1 hours $ 1,522.50

TOTAL COST $12,923.03

h) Unit Costs for Geochem:
No. of Mandays: 7 mandays
No. of Units : 195 samples
Unit Costs : $31.31/sample
Total Cost : 195 x $31.31 $ 6,104.57

i) Unit Costs for Airborne:
No. of Units : 40.2 line km
Unit Costs : $84.68/line km
Total Cost : 40.2 x $84.68 $ 3,404.03

j) Unit Costs for Linecutting:
No. of Mandays: 7 mandays
No. of Units : 14.25 line km
Unit Costs : $239.61/line km
Total Cost : 14.25 x $239.61 $ 3,414.43

GRAND TOTAL $12,923.03

NORANDA EXPLORATION COMPANY, LIMITED
(CORDILLERA DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: KLIYUL (GOLDWAY GROUP)

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Element) + Geochem Au	178 Soils	$13.80	$2,456.40
ICP (30 Element) + Geochem Au	17 Rocks	$13.80	$ 234.60
			$2,691.00

APPENDIX VII

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 & Geoscientists of British Columbia.

D. Graham Gill, P.Geo.

STATEMENT OF QUALIFICATIONS

I, Kenneth A. Robertson, of the City of Delta, Province of British Columbia, hereby certify that:

1. I am a Professional Geophysicist residing at 7540 Garfield Drive, Delta, B.C. V4C 7L4.

2. I have graduated from the University of Toronto in 1977 with an H.B.Sc. in Geology and Physics.

3. I have worked in mineral exploration since 1975.

4. I have been a permanent employee of Noranda Exploration Company, Limited since February 1984.

5. I am a member in good standing of the Professional Engineers and Geoscientists of British Columbia.

Kenneth A. Robertson, P.Geo.