DRILLING

ASSESSMENT REPORT

ON THE

KLIYUL PROPERTY

LATITUDE: 56° 30'N LONGITUDE: 126° 08'W

JUNE 1993

Author: D.G. Gill (Project Geologist)

Operator: Noranda Exploration Company, Limited
(No Personal Liability)

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DRAWINGS

1.0 INTRODUCTION

During the period between February 1 and March 9, 1993, Noranda Exploration Company, Ltd. and Midnight Sun Drilling Company, Ltd. of Whitehorse, Y.T. conducted a 6 hole, 560 meter reserve circulation drill programme on the Kliyul Property to test both magnetic highs and coincident copper-gold soil anomalies associated with a Cu-Fe-Au skarn zone which has had limited drill testing by both Sumac Mines Ltd. (1974) and Kennco/Vital Pacific Resources Ltd. (1981).

Prior to the actual fieldwork, computer integrated maps using all historic geochemical (soils) and geophysical (mag, I.P., resistivity) survey data were generated by Noranda. The integrated magnetic data revealed that the historic drilling was concentrated on the northern flank of one of several magnetic highs which constitute a larger zone of high magnetic susceptibility measuring 450 m x 350 m. Examination of the old drill core and drill logs confirms that the higher grade copper and gold values are associated with the higher magnetite content. Based on this information the 1993 drill programme concentrated on the area surrounding the main skarn zone to delineate the extent of the known mineralization, on areas of high magnetic susceptibility within the 450 m x 350 m magnetic anomaly which were previously untested and upon untested coincident copper-gold soil anomalies occurring immediately to the east of the large magnetic high.

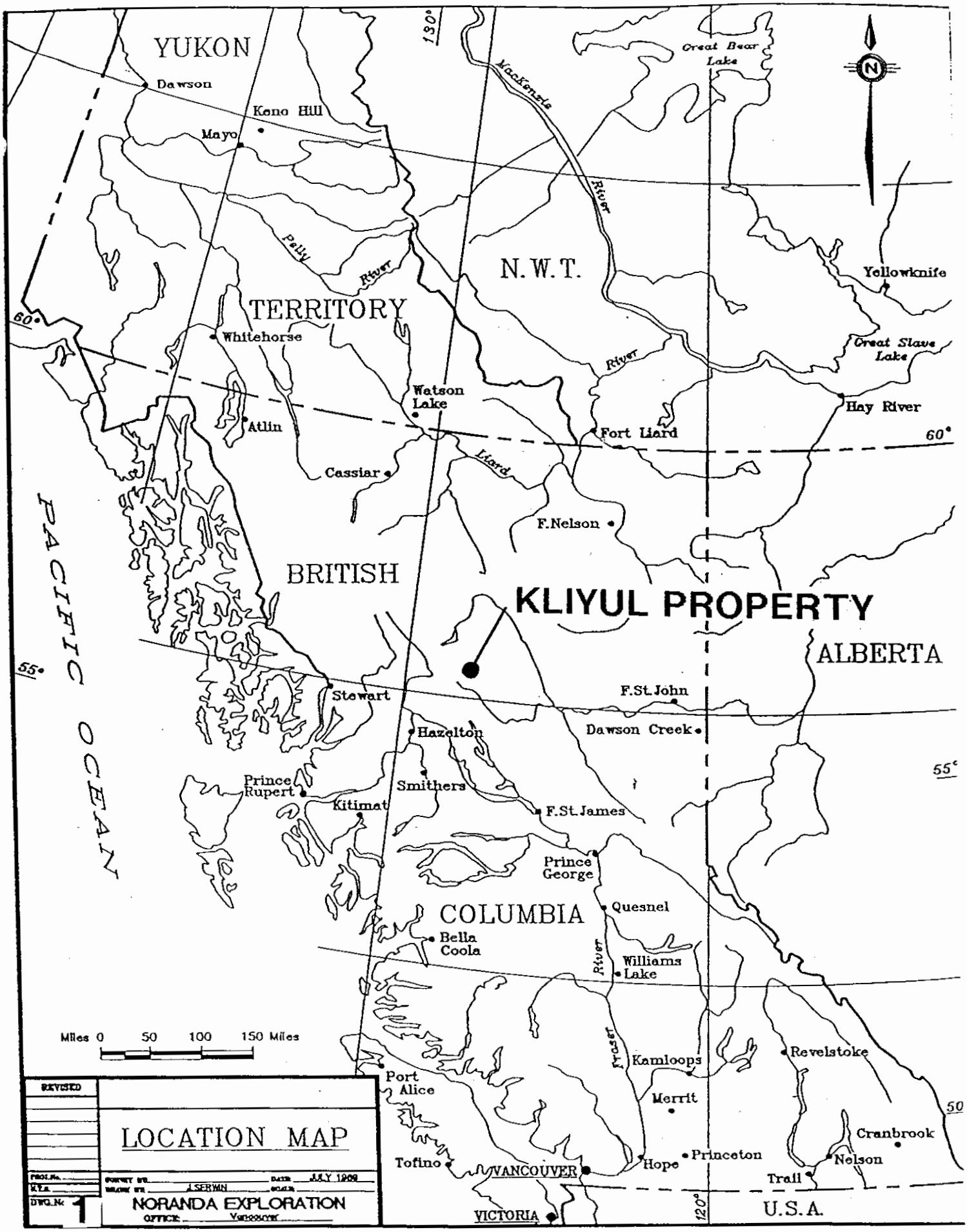
1.1 Location and Access

The Kliyul property 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 both helicopter based at the Osilinka Logging Camp and along an old cat trail which follows the Asitka River valley to the west of the property and connects with the Omineca Mining Road approximately 8 kms west of Johanson Lake (refer to Drawing 1 for a rough location of the property).

1.2 Topography and Physiography

The Kliyul property is situated above treeline with elevations ranging from 5600 to 7000 feet. The claims straddle an east-northeast trending glacial valley which is drained to the east and northeast by Lay Creek and to the southeast and southwest by tributaries at the headwaters of Kliyul Creek.


YUKON
TERRITORY
N.W.T.
BRITISH
COLUMBIA
ALBERTA
PACIFIC OCEAN
KLIYUL PROPERTY
Dawson
Keno Hill
Mayo
Whitehorse
Atlin
Watson Lake
Cassiar
Stewart
Hazelton
Smithers
Prince Rupert
Kitimat
F.St.James
F.St.John
Dawson Creek
Fort Liard
F.Nelson
Yellowknife
Great Bear Lake
Great Slave Lake
Hay River
Prince George
Quesnel
Bella Coola
Williams Lake
Kamloops
Revelstoke
Merrit
Port Alice
Tofino
VANCOUVER
Hope
Princeton
Cranbrook
Nelson
Trail
VICTORIA
U.S.A.
Mackenzie River
Liard River
Peel River
Fraser River
130°
120°
60°
55°
50
Miles 0 50 100 150 Miles
REVISED
LOCATION MAP
SURVEY BY
DRAWN BY J.SERWIN
DATE JULY 1988
SCALE
PROJ.No.
W.P.#
DWG.No. 1
NORANDA EXPLORATION
OFFICE Vancouver

Slopes to a maximum of 45° occur in the northern portion of the property along an east-west trending ridge whereas the southwestern part of the claim group covers a gently sloping, wide, marshy valley floor. The southeastern area of the property is dominated by two northwesterly trending ridges with moderate to steep relief.

1.3 History

Below is a brief outline of documented work performed on the property in chronological order.

1970-1972: Original property 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.

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

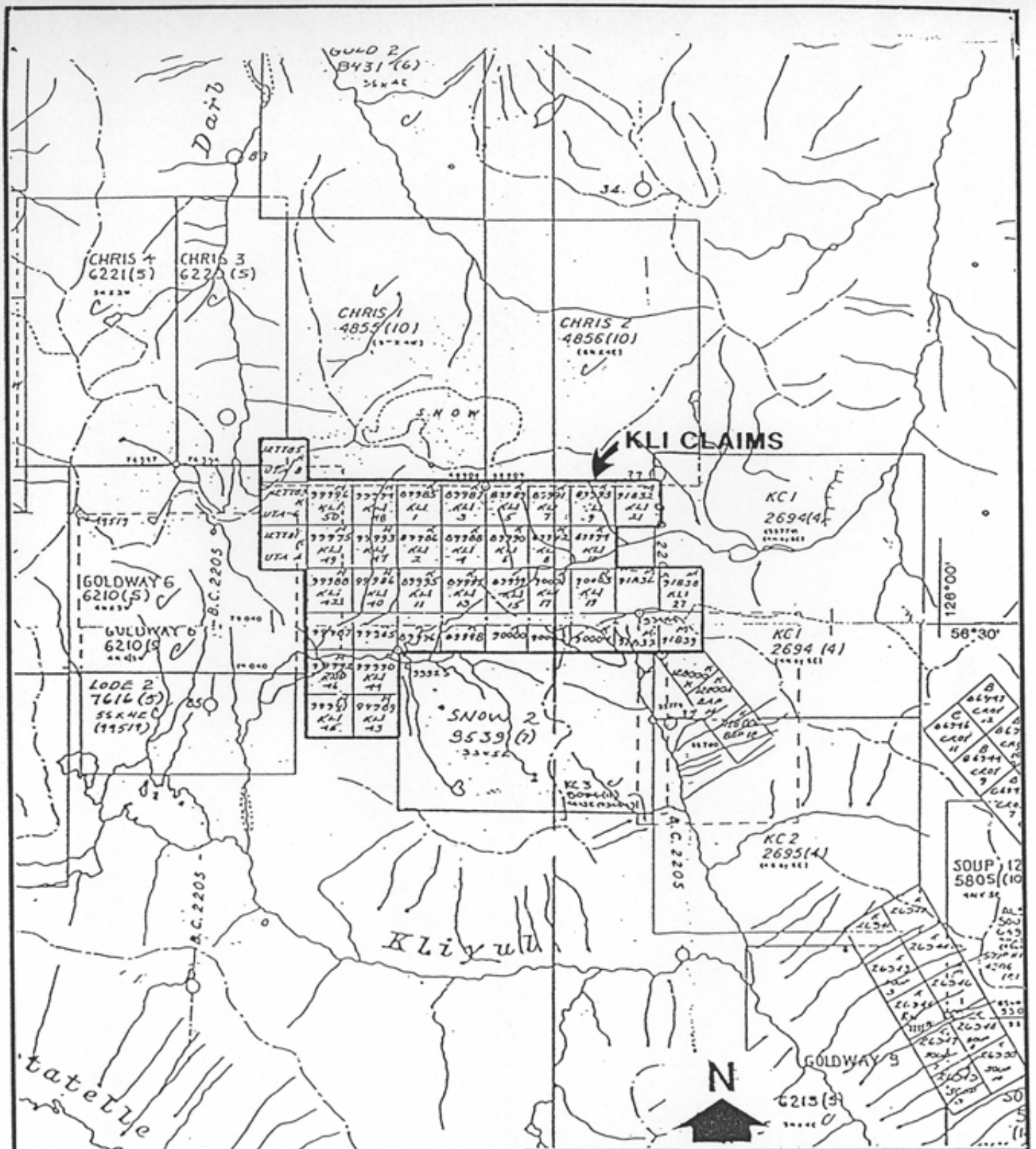
1974: Sumac Mines drilled 6 'BQ' holes to test the West and East Zone copper soil anomalies and 5 'BQ' holes into the magnetic high. The latter drill holes intersected magnetite-copper-gold mineralization within a well fractured, sericite, chlorite, epidote, carbonate, quartz, pyrite skarn hosted by 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.

1981: Kennco and Vital Pacific drilled 4 more holes into the central skarn zone all in a southerly direction. Results on this programme were less than favourable.

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

1990: Placer Dome conducted linecutting, magnetometer and VLF-EM surveying, soil and rock sampling and prospecting 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 conducted 1:5,000 geological mapping concentrating on alteration assemblages as well as rock and minor soil sampling.



REVISED	KLIYUL
	CLAIM LOCATION
PROJ.No.	SURVEY BY: DATE: JAN., 1993
N.T.S. 94 D/8+9	DRAWN BY: DGG SCALE: 1:50,000
DWG. No. 2	NORANDA EXPLORATION
	OFFICE: VANCOUVER

VANCAL 11927

1.4 Claims

The Kliyul property is comprised of 40 two-post mineral claims (Drawing 2) owned by Kennco Explorations (Western) Ltd. (50%) and by Vital Pacific Resources Ltd. (50%).

Claim Name	Record Number	Units	Record Date	Anniversary Date
KLI 1	245065	1	Aug. 10, 1970	Aug. 10, 1997
KLI 2	245066	1	Aug. 10, 1970	Aug. 10, 1997
KLI 3	245067	1	Aug. 10, 1970	Aug. 10, 1997
KLI 4	245068	1	Aug. 10, 1970	Aug. 10, 1997
KLI 5	245069	1	Aug. 10, 1970	Aug. 10, 1997
KLI 6	245070	1	Aug. 10, 1970	Aug. 10, 1997
KLI 7	245071	1	Aug. 10, 1970	Aug. 10, 1997
KLI 8	245072	1	Aug. 10, 1970	Aug. 10, 1997
KLI 9	245073	1	Aug. 10, 1970	Aug. 10, 1997
KLI 10	245074	1	Aug. 10, 1970	Aug. 10, 1997
KLI 11	245075	1	Aug. 10, 1970	Aug. 10, 1997
KLI 12	245076	1	Aug. 10, 1970	Aug. 10, 1997
KLI 13	245077	1	Aug. 10, 1970	Aug. 10, 1997
KLI 14	245078	1	Aug. 10, 1970	Aug. 10. 1997
KLI 15	245079	1	Aug. 10, 1970	Aug. 10, 1997
KLI 16	245080	1	Aug. 10, 1970	Aug. 10, 1997
KLI 17	245081	1	Aug. 10, 1970	Aug. 10, 1997
KLI 18	245082	1	Aug. 10, 1970	Aug. 10, 1997
KLI 19	245083	1	Aug. 10, 1970	Aug. 10, 1997
KLI 20	245084	1	Aug. 10, 1970	Aug. 10, 1997
KLI 21	245155	1	Sep. 11, 1970	Sep. 11, 1997
KLI 25	245156	1	Sep. 11, 1970	Sep. 11, 1997
KLI 26	245157	1	Sep. 11, 1970	Sep. 11, 1997
KLI 27	245158	1	Sep. 11, 1970	Sep. 11, 1997
KLI 28	245159	1	Sep. 11, 1970	Sep. 11, 1997
KLI 39	245682	1	Jul. 12, 1971	Jul. 12, 1997
KLI 40	245383	1	Jul. 12, 1971	Jul. 12, 1997
KLI 41	245384	1	Jul. 12, 1971	Jul. 12, 1997
KLI 42	245385	1	Jul. 12, 1971	Jul. 12, 1997
KLI 43	245386	1	Jul. 12, 1971	Jul. 12, 1997
KLI 44	245387	1	Jul. 12, 1971	Jul. 12, 1997
KLI 45	245388	1	Jul. 12, 1971	Jul. 12, 1997
KLI 46	245389	1	Jul. 12, 1971	Jul. 12, 1997
KLI 47	245390	1	Jul. 12, 1971	Jul. 12, 1997
KLI 48	245391	1	Jul. 12, 1971	Jul. 12, 1997
KLI 49	245392	1	Jul. 12, 1971	Jul. 12, 1997
KLI 50	245393	1	Jul. 12, 1971	Jul. 12, 1997
UTA 4	245777	1	Aug. 29, 1973	Aug. 29, 1997
UTA 6	245778	1	Aug. 29, 1973	Aug. 29, 1997
UTA 8	245779	1	Aug. 29, 1973	Aug. 29, 1997

Although work done described in this report was conducted on the Kli 13 & 15 claims several different groupings of surrounding claims have been made in order to fulfil assessment requirements for each claim within each group. In addition several two-post claims were staked in order to keep all claims within such groupings contiguous.

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

1.5 Economic Potential

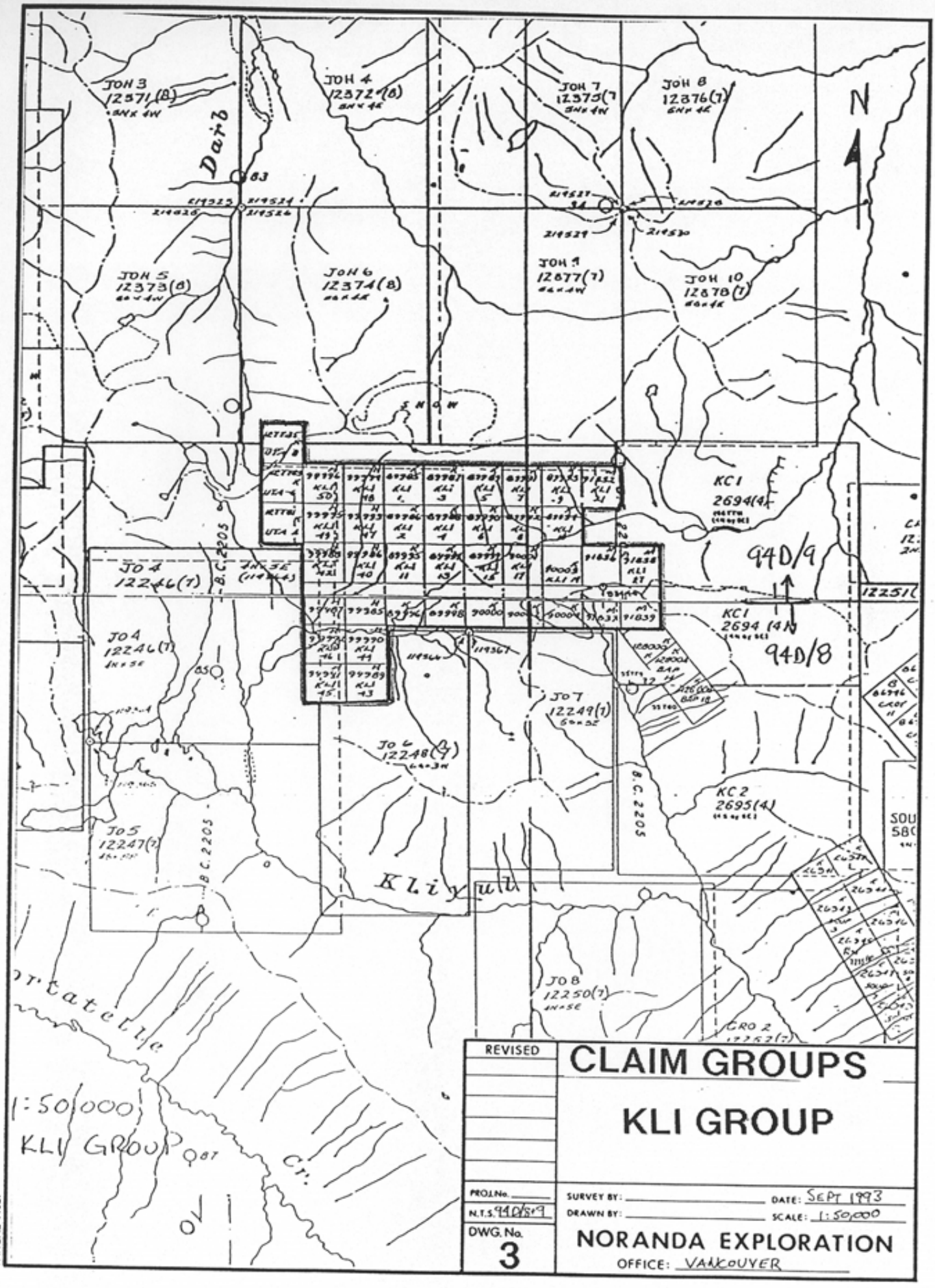
Historical drilling on the Kliyul property by Sumac Mines Ltd. and Kennco/Vital Pacific in 1974 and 1981 has outlined a Cu-Fe-Au skarn zone estimated to contain 2.5 million tons of 0.3% Cu and 1.03 gpt Au which is situated on the northern flank of one of several magnetic highs which constitute a larger zone of high magnetic susceptibility measuring 450 m x 350 m. Previous examination of the old drill core and drill logs suggests that the higher grade copper and gold values are associated with higher magnetite content. Based on this information the potential for increasing the tonnage of the Cu-Fe-Au skarn zone is considered excellent.

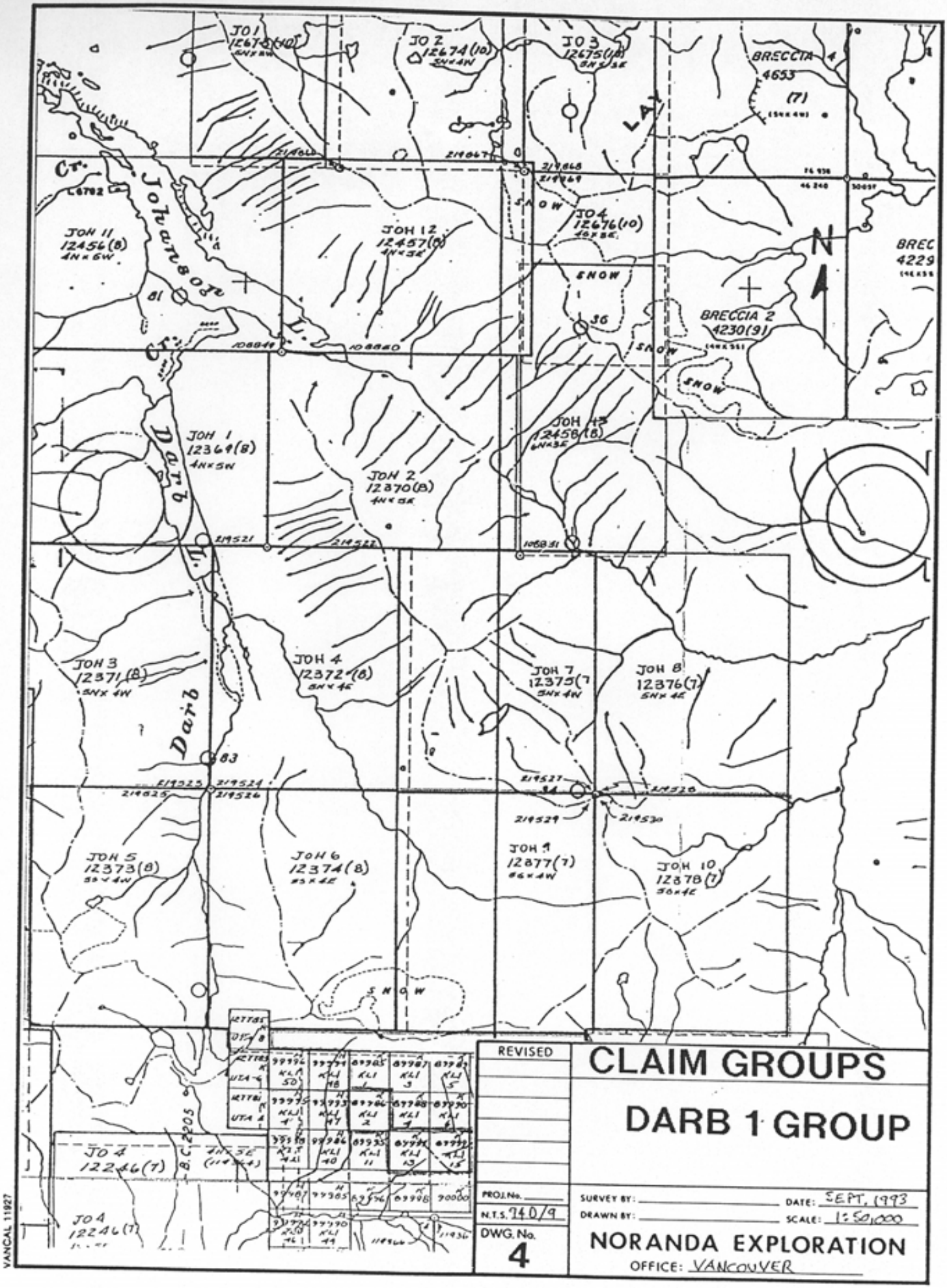
1.6 Survey Control

The surveying of drill hole collars during this programme was conducted utilizing Placer Dome's 1990 metrically chained and slope corrected grid for control. This grid was also used by Noranda field personnel during the 1992 mapping programme.

1.7 Sampling

Sampling of the reverse circulation chips was done at 2.0 m intervals. All samples were sent to Noranda Exploration laboratory at Unit #1, 7550-76th Street, Delta, B.C. A total of 254 samples were analyzed by ICP (30 element) and geochem-ed for gold. Refer to Appendix II for a more detailed description of rotary drilling sampling techniques and Appendix I for descriptions on laboratory analytical techniques.


JOH 3
12371(8)
JOH 4
12372(8)
JOH 7
12375(7)
JOH 8
12376(7)
JOH 5
12373(8)
JOH 6
12374(8)
JOH 9
12377(7)
JOH 10
12378(7)
N
KC1
2694(4)
94D/9
94D/8
KC1
2694(4)
JO4
12246(7)
JO4
12246(7)
JO7
12249(7)
JO6
12248(7)
KC2
2695(4)
JO5
12247(7)
B.C. 2205
Kliyul
JO8
12250(7)
1:50,000
KLI GROUP
REVISED
CLAIM GROUPS
KLI GROUP
PROJ.No.
N.T.S. 94D/8/9
DWG. No.
3
SURVEY BY:
DRAWN BY:
DATE: SEPT 1993
SCALE: 1:50,000
NORANDA EXPLORATION
OFFICE: VANCOUVER
VANCAL 11927



REVISED

CLAIM GROUPS

DARB 1 GROUP

PROJ. No. _____

N.T.S. 94O/9

DWG. No. 4

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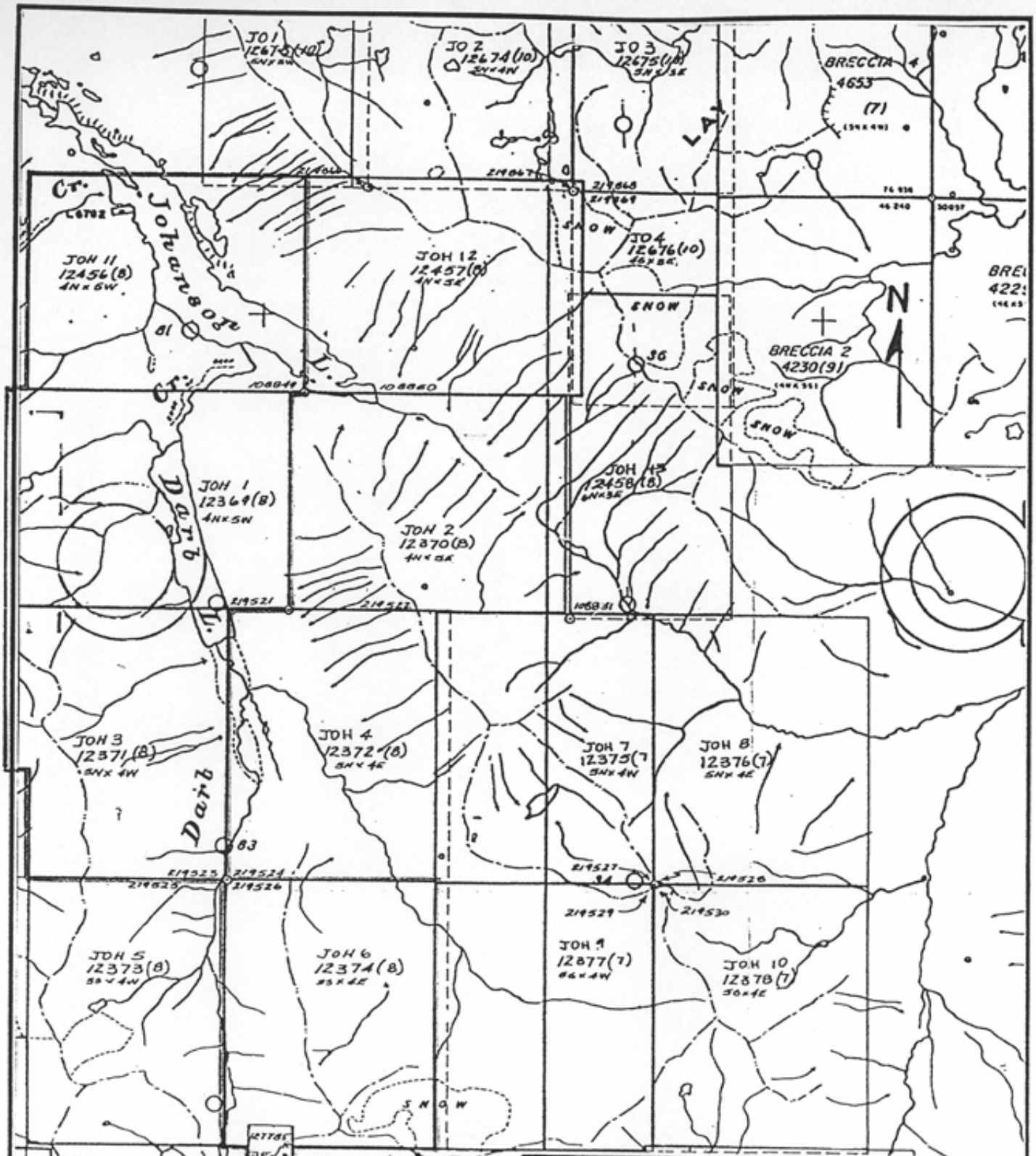
DRAWN BY: _____ SCALE: 1:50,000

NORANDA EXPLORATION

OFFICE: VANCOUVER

VANCAL 11927



REVISED	
PROJ.No.	
N.T.S. 94 O/9	
DWG. No. 5	

CLAIM GROUPS

DARB 2 GROUP

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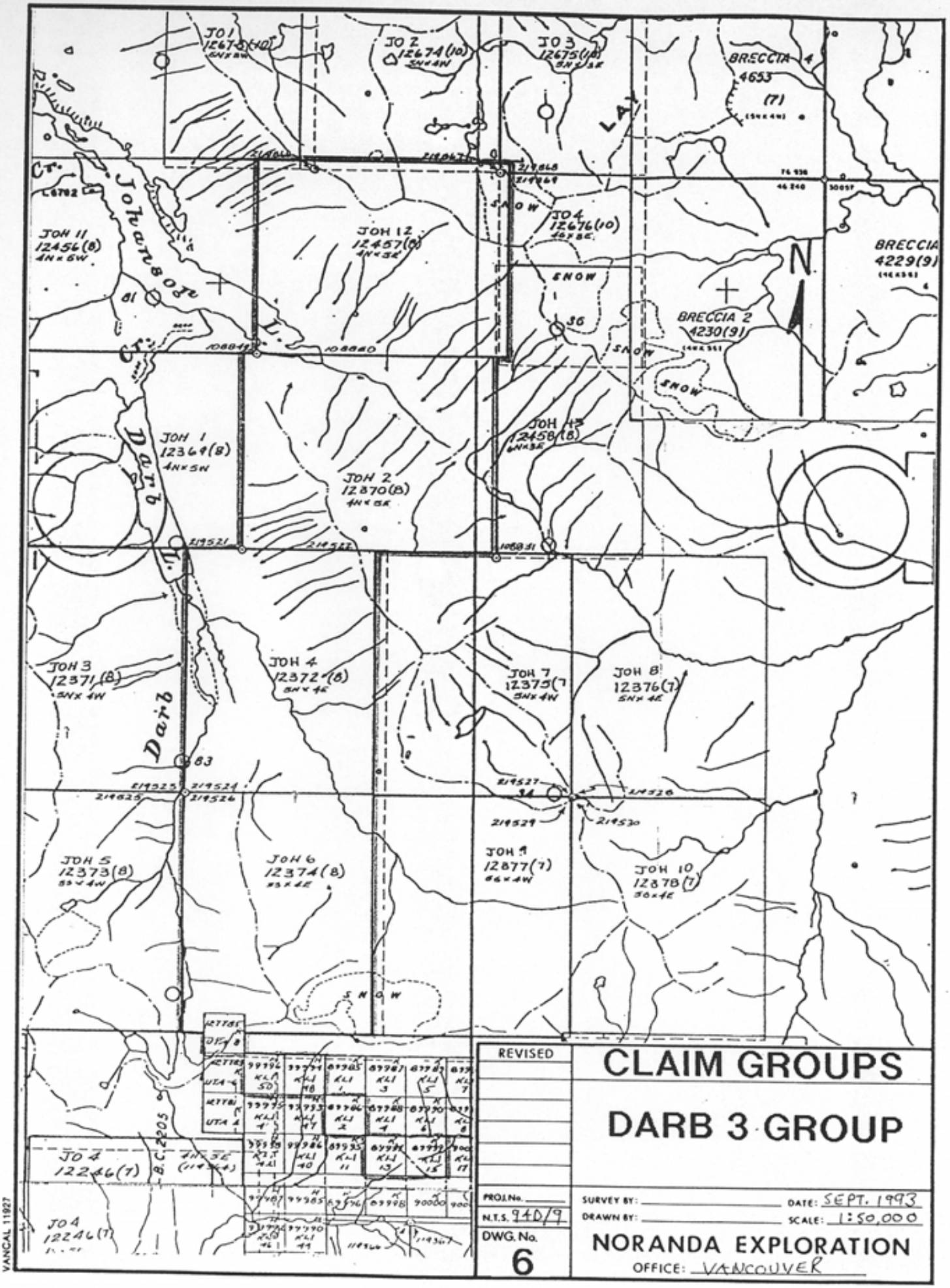
DRAWN BY: _____ SCALE: 1:50,000

NORANDA EXPLORATION

OFFICE: VANCOUVER

VANCAL 11927



CLAIM GROUPS

DARB 3 GROUP

REVISED

PROJ.No.

N.T.S. 94D/9

DWG. No. 6

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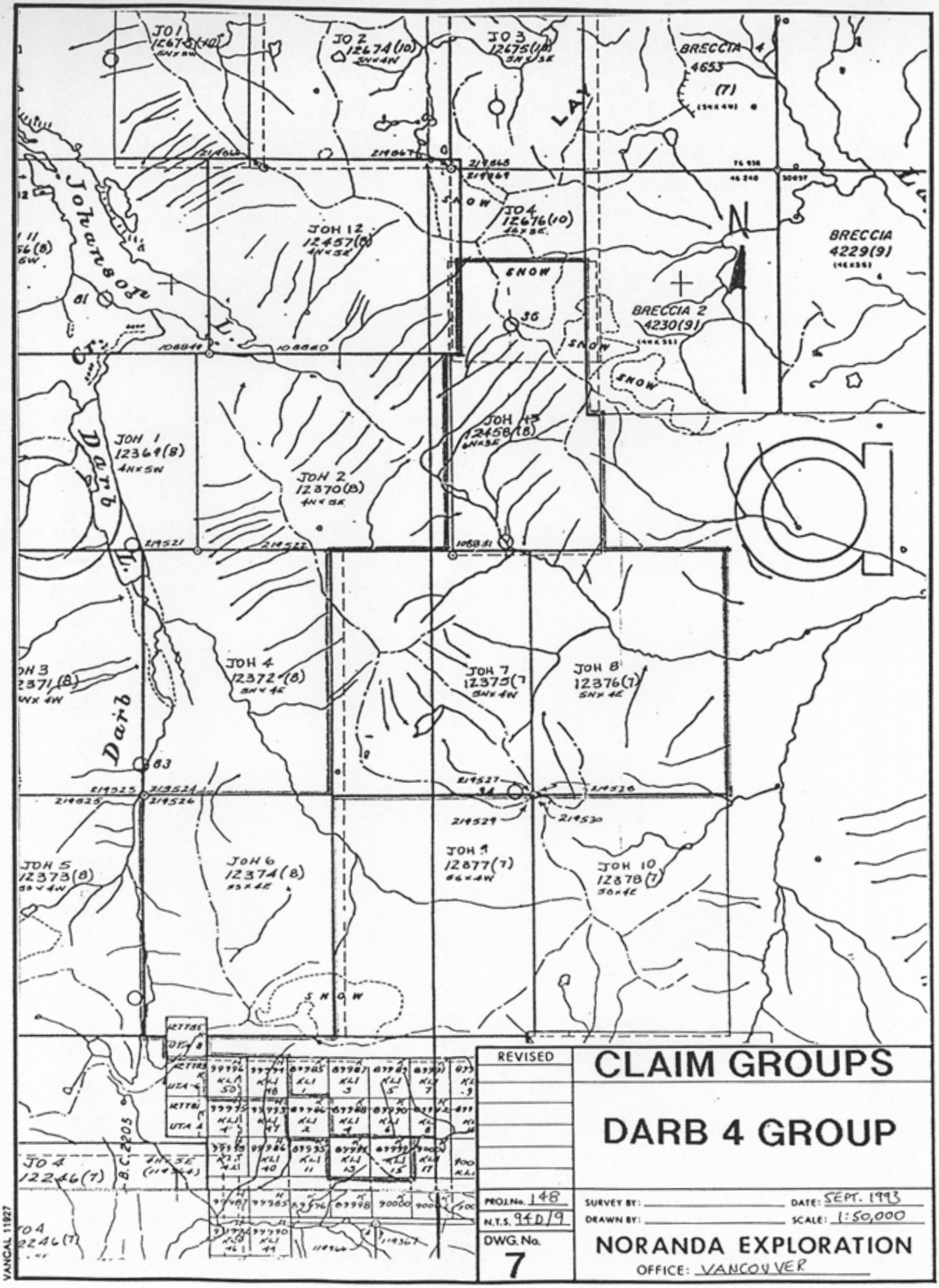
NORANDA EXPLORATION

OFFICE: VANCOUVER

VANCAL 11927



REVISED	
PROJ. No.	148
N.T.S.	94D/9
DWG. No.	7

CLAIM GROUPS

DARB 4 GROUP

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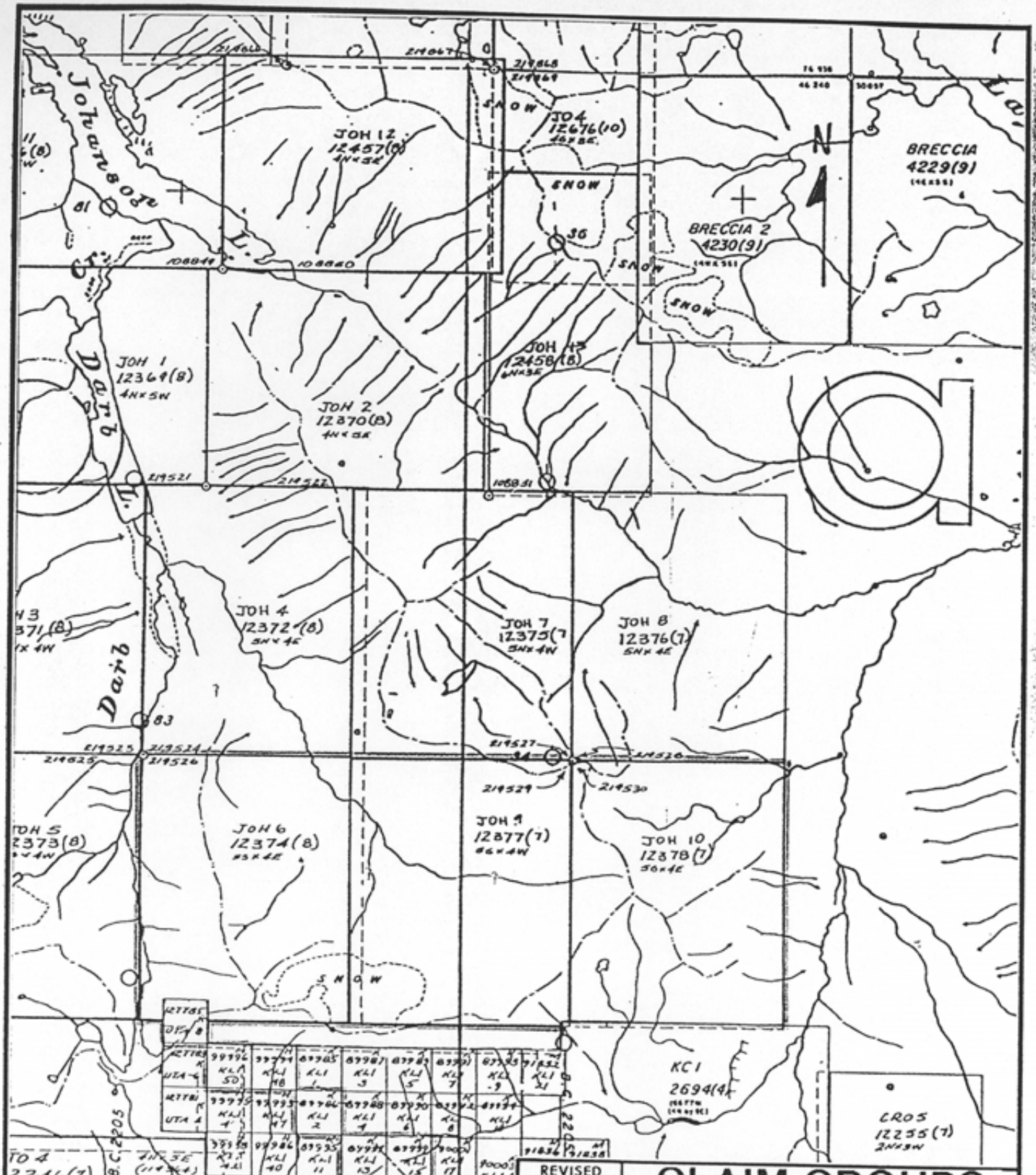
DRAWN BY: _____ SCALE: 1:50,000

NORANDA EXPLORATION

OFFICE: VANCOUVER

VANCAL 11927



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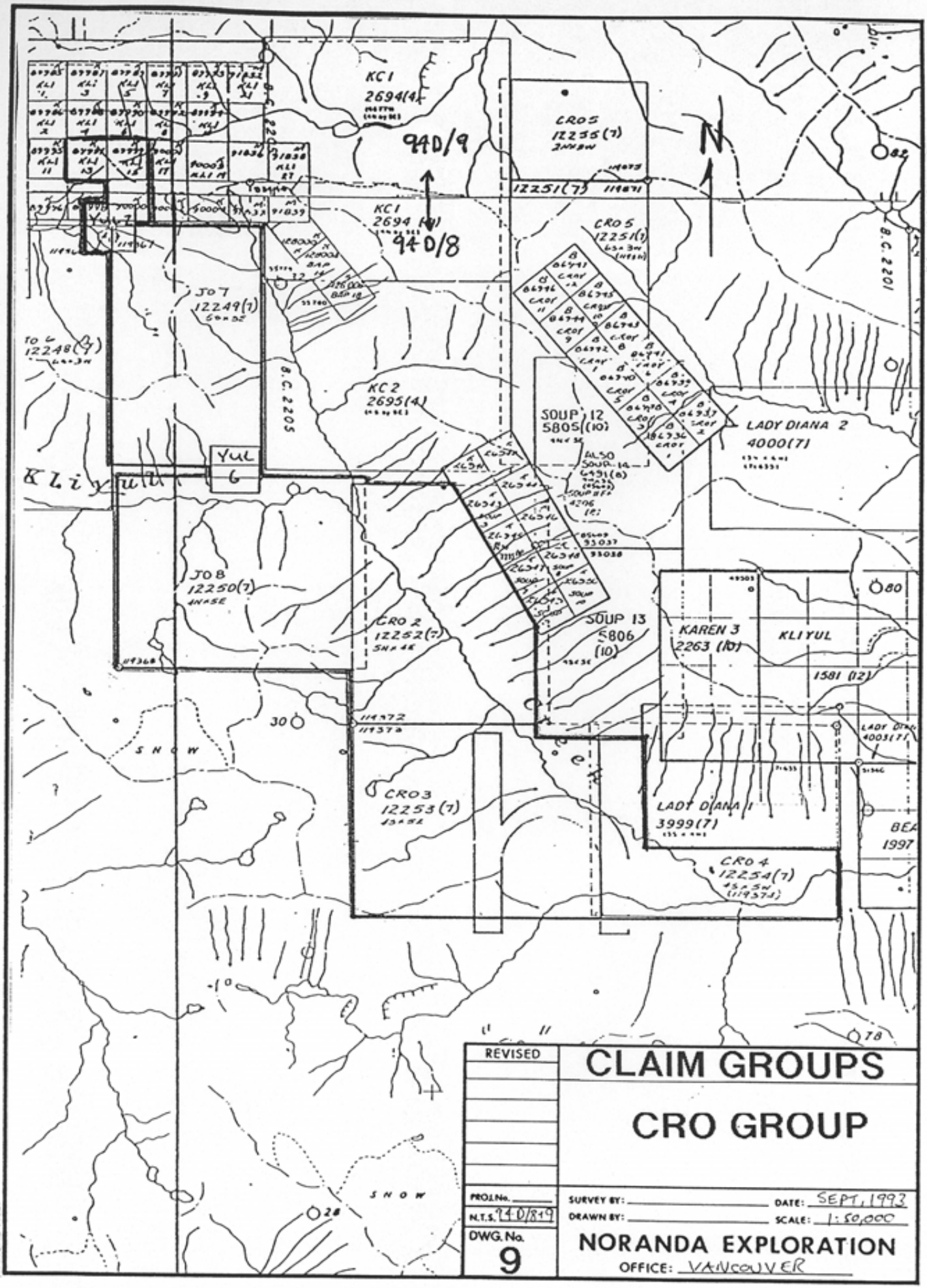
	OFFICE: VANCOUVER

VANCAL 11927



REVISED	CLAIM GROUPS
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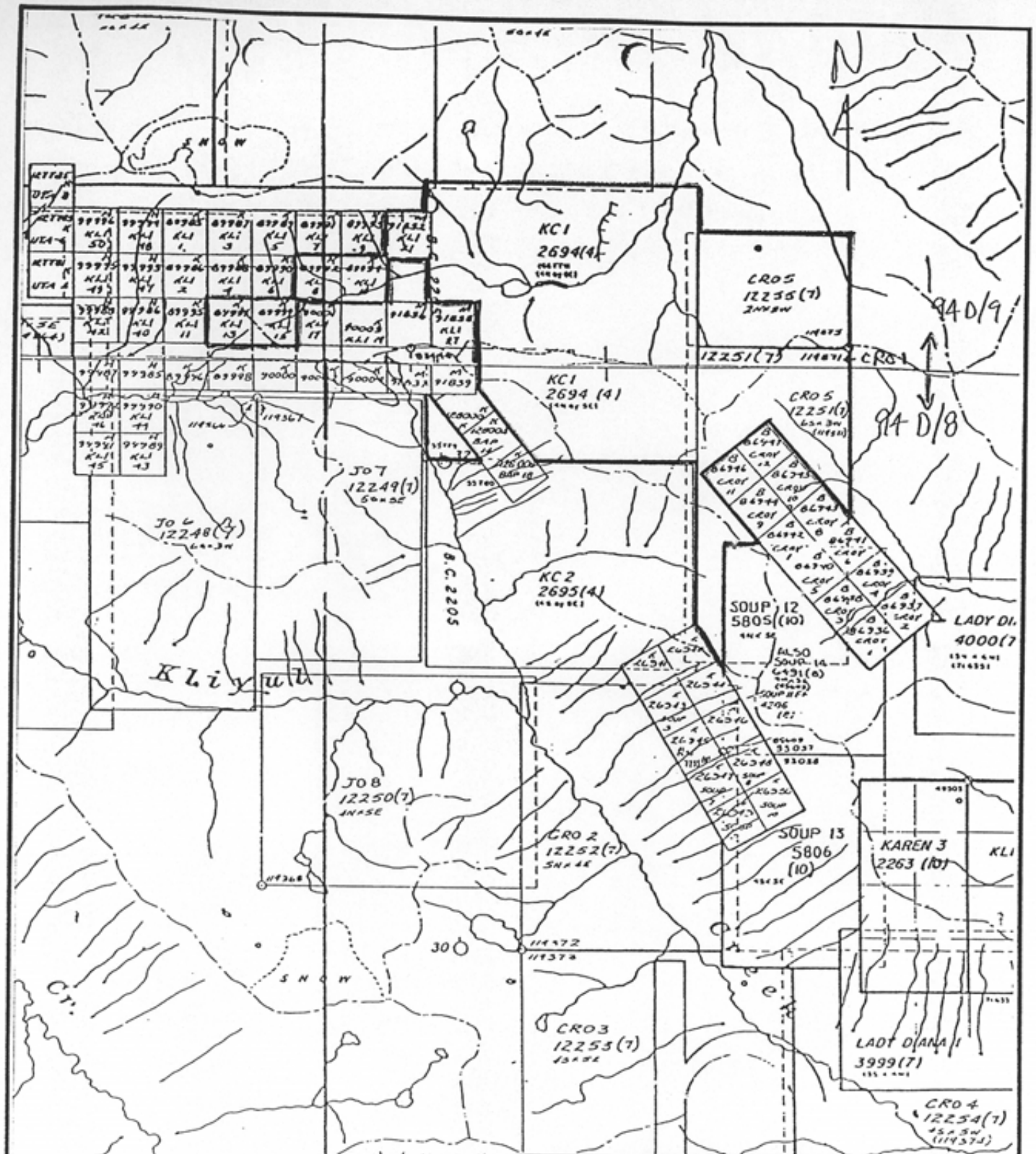
N.T.S. 94D/8/9	DRAWN BY: _____ SCALE: 1:50,000
DWG. No. 9	NORANDA EXPLORATION
	OFFICE: VANCOUVER

VANCAL 11927



REVISED	CLAIM GROUPS
	CRO 2 GROUP
PROJ.No.	SURVEY BY: DATE: SEPT. 1993
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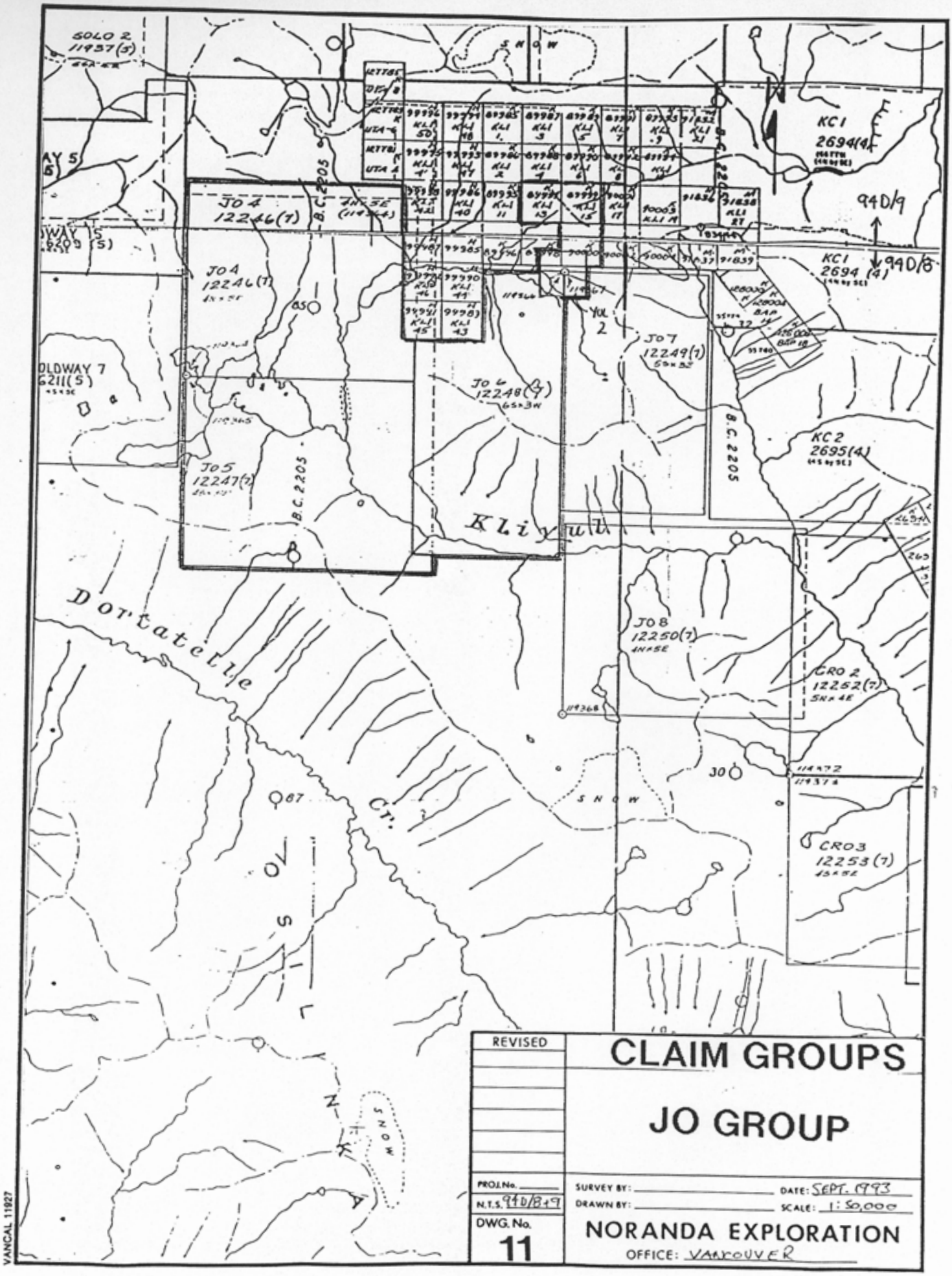
	OFFICE: VANCOUVER

VANCAL 11927



REVISED	CLAIM GROUPS
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DWG. No. 11	NORANDA EXPLORATION
	OFFICE: VANCOUVER

VANCAL 11927

2.0 GEOLOGY (See Drawing 13)

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.

The 1992 programme completed by Noranda included the confirmation of geological mapping completed by BP Minerals in 1984 (Assessment Report #13258) as well as mapping alteration assemblages.

The mapping programme confirmed the fact that the majority of the Kliyul property is underlain by mainly propylitized andesitic tuffs and flows of (Unit 1) the Takla Group which also includes a section of calcareous andesite tuffs and agglomerates (Unit 8) containing large chunks of limestone up to 30 cms in length. Minor beds of black pyritic shales and limestones (Units 7 & 6) are also found within the major volcanic pile. Field observations reveal that these units strike in a north-northwest direction and dip mainly to the west and locally eastward. Intrusive activity found on the property is confined to small plugs and dykes of diorite to gabbro composition (Unit 5) and a large listwanite dyke (Unit 10) which is observed in both the southeast and northwest corners of the claim block.

Several large gossanous areas occur throughout the claim block and can be attributed to pyrite and silica (Unit 9), sericite (Unit 4) and a combination of quartz-sericite-clay-pyrite (Unit 3) altered zones ranging in intensity from weak to intense. All gossanous zones appear to be related to large structural breaks which are delineated by the presence of deeply incised gulleys, alignment of creeks and lakes, patches of ferrocrete (Unit 2) and large dykes, i.e. listwanite. These structural breaks appear to generally trend east-west, north-south and east-southeast-west-northwest.

The largest of these gossans is the quartz-sericite-kaolinite-pyrite (up to 15%) zone located in the southeast corner of the claim block which extends to the southeast onto ground held by Golden Rule Resources (BAP claims). This area is underlain by foliated andesitic tuffs and a large number of radiating diorite dykes and precious to base metal rich quartz veins. This gossan is exposed for at least 200 metres vertically, 300-400 metres in width and over a kilometre in length. Although very minor copper mineralization (malachite, chalcopyrite) was observed in this area the widespread alteration and occurrence of radiating dykes and quartz veins may suggest that this exposed section is the surface manifestation of a buried intrusive body which may contain porphyry

DARB LAKE

LAY CK.

KLIYUL CLAIMS

KLIYUL CK.

SOUP CLAIMS

DORATELLE CK.

REGIONAL GEOLOGY

KLIYUL CREEK AREA

0 1 2 3 4 5 KMS

SCALE 1:50,000

LEGEND

INTRUSIVES

4 DIORITE, MONZONITE, SYENITE

3 ULTRAMAFIC ROCKS (PYROXENITE)

TAKLA VOLCANICS (UP. TRIASSIC)

2 ANDESITES

1 SEDIMENTS (ss, arg, lst.)

12

★ OCCURRENCES

or epithermal type mineralization. To the southeast this large gossan is covered by talus slopes of the East Kliyul Creek canyon and is offset to the south by a small northeast trending fault. Northward the zone appears to become more sericite altered before intersecting a large east-west trending fault (paralleling Lay Creek and marked by the presence of ferrocrete outcrop) which offsets the zone approximately 3.2 kms to the west where it is exposed again in the northwest corner of the property. (This offset is also confirmed by the similar westward movement of the calcareous andesitic tuff and agglomerate unit and possibly the large listwanite dyke).

Other zones of weak to intense pyrite-silica alteration were also observed to occur along north-south trending fracture sets and overlying & adjacent to, east-west trending fault zones such as those roughly paralleling Lay Creek in the centre of the claim block and along the base of the slope south of 'Andesite Ridge' in the north-central portion of the property.

Field observations of the Kli skarn zone were limited to only one outcrop located on Line 2800E, 2055N due to the large amount of drift cover in the centre of the large east-west glacial valley although the calcareous andesitic tuff and agglomerate unit is seen to lie directly on strike 500 meters to the south.

3.0 PRESENTATION OF DRILL HOLE DATA

Drilling parameters of Noranda's 1993 programme are listed in the table below. Refer to Drawings 14-21 for plans and sections of all holes. Sections are in bar graph form showing copper and gold results for each sample interval (2.0 meters).

HOLE #	TOTAL LENGTH (meters)	COORDINATES EAST	COORDINATES NORTH	AZIMUTH (True)	DIP	DATE COLLARED	DATE COMPLETED
RC-KL-93-1	88.0	2805	1730	0°	-50°	Feb 20/93	Feb 21/93
RC-KL-93-2	112.0	3150	1900	0°	-50°	Feb 22/93	Feb 23/93
RC-KL-93-3	60.0	3132	1992	033°	-50°	Feb 23/93	Feb 24/93
RC-KL-93-4	120.0	2790	1937	050°	-50°	Feb 24/93	Feb 25/93
RC-KL-93-5	100.0	2654	1931	060°	-50°	Feb 25/93	Feb 26/93
RC-KL-93-6	80.0	2715	1880	060°	-50°	Feb 26/93	Feb 27/93

3.1 Synopsis of Drill Holes

RC-KL-93-1

This hole was drilled to test the southern most lobe of high magnetic susceptibility with associated elevated copper, gold geochemistry. The hole encountered silica-chlorite, silica & calc-silicate altered andesites containing fine grained, disseminated and fracture filled pyrite and magnetite and very little copper mineralization. Between 84-88 m problems were encountered with a large fault zone which also appears to mark the beginning of a magnetite-silica skarn zone. This is reflected in the increase in gold values seen between 82 and 88 m at the end of hole RC-KL-93-1.

RC-KL-93-2

RC-KL-93-2 was drilled to test a zone of coincident anomalous copper-gold soil geochemistry outside of the main zone of high magnetics. As in RC-KL-93-1 this hole drilled through a series of silica, silica-chlorite and calc-silicate altered andesites with varying amounts of pyrite (1-4%), magnetite (trace to 4%) and chalcopyrite (trace to 1%). No significant skarn mineralization or alteration was intersected. However, the zone between 6 & 34 m returned 0.27 gpt Au, 0.28% Cu from siliceously altered andesites containing a moderate amount of quartz-calcite stringers as did the interval between 62 m and 112 m (0.47 gpt Au, 0.16% Cu) which also revealed an increase in quartz-calcite stringers and a rough increase in magnetite.

The results obtained and alteration observed in this hole suggest that this area, although elevated in copper-gold, is peripheral to the main area of mineralization 300 metres to the west.

RC-KL-93-3

This hole was drilled to test the same coincident copper-gold soil geochemistry anomaly as RC-KL-93-2 but approximately 100 metres to the north where siliceous, carbonate and chlorite altered andesites were cored. No significant skarn mineralization was encountered in this hole although elevated copper-gold results were returned from areas containing slightly more disseminated and veined magnetite as well as increased quartz-calcite veining. As in RC-KL-93-2 the results from this hole suggest this area is peripheral to the main mineralized zone and that the surface geochem signature may be a result of the combination of eastward transport and/or an increase in quartz-calcite veining in this vicinity.

RC-KL-93-4

RC-KL-93-4 was drilled to test the eastern extension of the Kliyul skarn zone as defined by KL-74-5, 6 and 13. The hole encountered an intercalated series of calc-silicate, chlorite-carbonate and silica, chlorite, magnetite altered andesite package which revealed high copper and gold values associated with an increase of disseminated magnetite, pervasive silica alteration and an increase in quartz-calcite veining as seen between 30-120 m which returned 0.75 gpt Au, 0.29% Cu including 20 meters (68-88 m) of 2.10 gpt Au and 0.51% Cu.

RC-KL-93-5

This hole was collared approximately 50 m southwest of KL-74-07 to test the western extension of the Kliyul skarn zone underlain by high magnetics. Calc-silicate altered andesites, limestone breccia (agglomerate) and magnetite (silica) skarn zones were the rock types most frequently encountered. Several small quartz-sericite altered (& sheared?) zones were also intersected which reflects the amount of faulting present in this vicinity. The best results in this hole were from 12-74 m (1.28 gpt Au, 0.26% Cu) including an interval between 50-74 m containing 2.4 gpt Au, 0.24% Cu where calc-silicate altered andesites and a magnetite-silica skarn zone were encountered. Higher grade gold values appear to be associated with an increase in magnetite as is the case in all other mineralized holes.

RC-KL-93-6

RC-KL-93-6 was collared approximately 90 metres southeast of RC-KL-93-5 in order to test for the southern extension of mineralization encountered previously in holes 74-7 and 8 and RC-KL-93-5 assuming that the mineralization was striking approximately 157° and dipping steeply to the west as revealed by a 3 point structural interpretation. However, no significant mineralization was intercepted at the projected depth.

The majority of this hole intercepted calc-silicate and chlorite-carbonate altered andesites which contained much less magnetite than other well mineralized holes in this area. Only the interval between 52 and 80 metres revealed an increase in magnetite to 4-5% where 0.21% Cu and 0.21 gpt Au were returned.

4.0 CONCLUSIONS

The 1993 reverse circulation drilling programme on the Kliyul property has extended the known skarn mineralization to the west (RC-KL-93-5), southeast (RC-KL-93-4) and to depth in the south (RC-KL-93-6 and perhaps RC-KL-93-1) and has returned enough encouraging copper and gold results to warrant further drilling.

A review of a section at 060° azimuth incorporating holes KL-93-5, KL-74-7, KL-74-5, KL-81-16 and KL-81-17 and projecting KL-74-6 and 13 onto this section suggests that the mineralized zone may strike roughly east-west. It should be mentioned that the zone does not appear in holes KL-81-16 or 17 but this may be due in part to resampling of the core by BP Minerals in 1984 and lack of assay data from assessment files. If this same zone is represented by the intersections returned in RC-KL-93-4 and the bottoms of RC-KL-93-6 (& perhaps RC-KL-93-1) this implies a moderate dip of the zone to the south.

The mineralized zone encountered at depth in hole KL-74-08 may in fact represent a second, parallel mineralized zone not intersected in any of the other holes.

If this scenario is correct than it would support the fact that hole KL-81-18 would have drilled under the first zone and hole KL-81-19 would have undercut the second zone intersected in KL-74-8.

A drilling programme involving holes collared between RC-KL-93-5 and 6 at 2675E, 1900N, another to the southwest of RC-KL-93-4 at 2850E, 1930N and another near the collar of KL-81-18 and 2740E, 2000N, all trending northward would test this theory sufficiently and add tonnage to the existing mineralization if proven correct.

REFERENCES

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

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

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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 #13258: Geology, Geochem on the Kli Claims, B.P. Minerals, 1984.

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APPENDIX I

LABORATORY ANALYTICAL TECHNIQUES

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

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

Preparation of Samples:

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

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

Analysis of Samples:

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

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

Elements Requiring Specific Decomposition Method:

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

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

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

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

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

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

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

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

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

LOWEST VALUES REPORTED IN PPM:

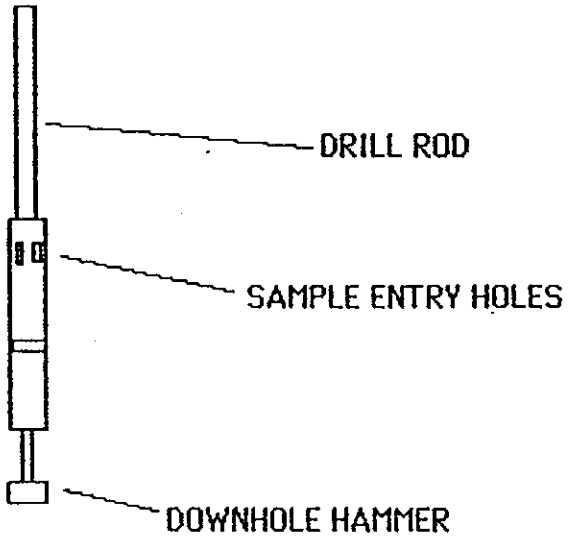
Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

APPENDIX II

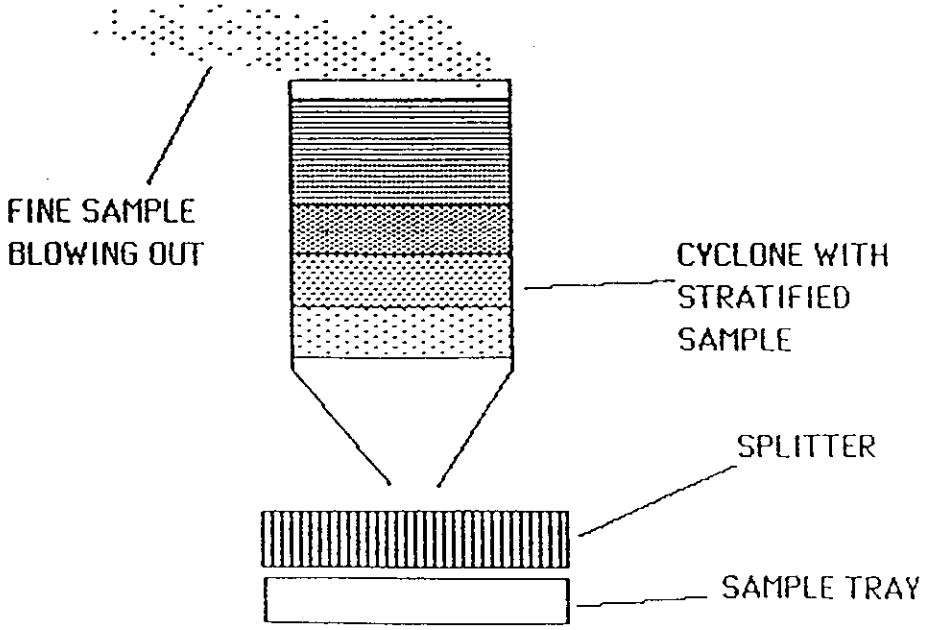
ROTARY DRILLING
SAMPLING TECHNIQUES

NORANDA EXPLORATION
ROTARY DRILLING SAMPLING TECHNIQUES
BLACK PINE PROPERTY, IDAHO

Drill in use is a down hole hammer, rotary drill. Some 60% of the material from the hole is lost to "blow-by" at the bottom of the hole. The remaining 40% is taken up the drill pipe.



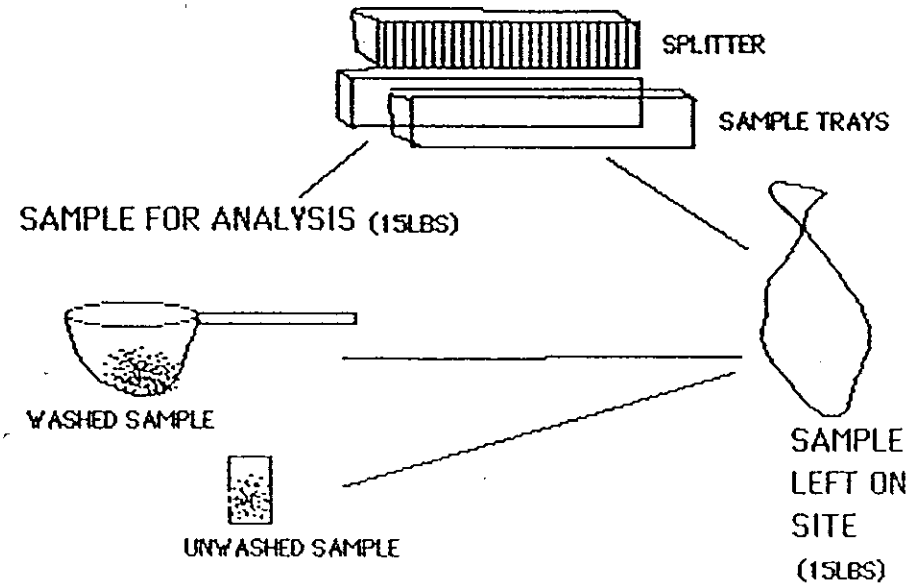
The sample comes out of the drill pipe into the cyclone where the fines are "condensed" along with the chips. Some estimate of the amount of fines lost can be made by the amount of material coming out of the top of the cyclone. Within the cyclone, the sample ends up stratified, with the top of the hole in the bottom of the cyclone.



If necessary the extremely fine dust can be also collected, though it takes a great amount of effort. It may be justified if the drilling is for economic evaluation purposes and there is evidence that the gold content is higher in the fines.

The sample is first split below the cyclone, where the retained volume is adjusted to get the necessary sample size (about 30lbs). The samples are taken every 5ft, which is estimated by the driller watching the rods go down.

The sample is then split a second time into two 15lb samples, one of which is left on site and the other is sent for analysis. The sample left on site is probably useless after a few months due to deterioration of the bag and loss of the writing on the bag.



Two scoops are taken out of the reject bag. One is put as is into a chip tray and is labelled as an unwashed sample. The second is put into a kitchen sieve and dipped into a pail of water to produce a washed chip sample. This is retained in a second chip tray.

The unwashed sample gives information about colour of sample (which reflects oxidation, carbon content, quartz or calcite content, etc.), clay content, etc. The washed sample is used to study the chips for lithiological logging. Small amounts of the unwashed sample may be used at a later date, if the original sample is lost, for geochemical studies (alteration haloes, arsenic content, etc.)

APPENDIX III

REVERSE CIRCULATION DRILL LOGS

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-1
Collar Eastings: 2805.00
Collar Northings: 1730.00
Collar Elevation: 1753.00

Collar Inclination: -50.00
Grid Bearing: 0.00
Final Depth: 88.00 metres

Logged by: GRC
Date: MAR 9/93
Down-hole Survey:

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuIL	Au gmtL	Ag gmtL	CuIS	Au gmtS	Ag gmtS
0	4	OVERBURDEN									
4	22	SILIC-CHLORITE ALT ANDESITE	4.00	6.00	2.00				0.012	0.005	0.200
		Slightly calcareous.	8.00	10.00	2.00				0.015	0.005	0.200
		Trace to 1% pyrite, trace magnetite.	12.00	14.00	2.00				0.005	0.005	0.200
			16.00	18.00	2.00				0.016	0.005	0.201
			20.00	22.00	2.00				0.190	0.190	0.200
22	30	SILICEOUS ANDESITE	24.00	26.00	2.00				0.086	0.050	0.200
		1-2% pyrite, trace magnetite,	28.00	30.00	2.00				0.090	0.070	0.200
		trace chalcopyrite.									
30	50	CALC-SIL ALT ANDESITE	30.00	32.00	2.00	0.185	0.110	0.200			
		Moderately calcareous.	32.00	34.00	2.00				0.074	0.100	0.200
		1-2% pyrite, trace to 1% magnetite.	34.00	36.00	2.00	0.174	0.140	0.400			
			36.00	38.00	2.00				0.206	0.150	0.200
			38.00	40.00	2.00	0.163	0.130	0.800			
			40.00	42.00	2.00				0.142	0.130	0.200
			42.00	44.00	2.00	0.184	0.090	0.200			
			44.00	46.00	2.00				0.116	0.060	0.200
			46.00	48.00	2.00	0.100	0.070	0.200			
			48.00	50.00	2.00				0.176	0.140	0.200
50	58	CALCAREOUS ANDESITE	50.00	52.00	2.00	0.097	0.070	0.200			
		Strongly calcareous.	52.00	54.00	2.00				0.154	0.120	0.200
		1-2% pyrite, trace - 1% magnetite.	54.00	56.00	2.00	0.082	0.090	0.200			
			56.00	58.00	2.00				0.093	0.060	0.200
58	82	CHLORITE-SILIC ALT ANDESITE	60.00	62.00	2.00				0.091	0.030	0.200
		Slightly calcareous.	64.00	66.00	2.00				0.070	0.040	0.200
		3% pyrite, <1-2% magnetite.	68.00	70.00	2.00				0.158	0.060	0.200
		Magnetite increases where silica	72.00	74.00	2.00				0.173	0.120	0.200
		flooding intensifies.	76.00	78.00	2.00				0.077	0.080	0.200
		74-76 Calcite stringers.	78.00	80.00	2.00	0.094	0.050	0.400			
			80.00	82.00	2.00	?			0.185	0.120	0.200
82	88	MAGNETITE SKARN	82.00	84.00	2.00	0.221	0.270	0.400			
		Major increase in magnetite	84.00	86.00	2.00				0.139	0.300	0.200

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-1

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuÎL	Au gmtL	Ag gmtL	CuÎS	Au gmtS	Ag gmtS
		content as well as carbonate. 10-12% magnetite, 3% pyrite. 84-88 Fault zone. Open space - rods squeezed - abandon hole.	86,00	88,00	2,00						

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-2
Collar Eastings: 3150.00
Collar Northings: 1900.00
Collar Elevation: 1743.00
Grid: METRIC

Collar Inclination: -50.00
Grid Bearing: 0.00
Final Depth: 112.00 metres
Reverse Circulation

Logged by: GRC
Date: MAR 9/93
Down-hole Survey:
Midnight Sun Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuEL	Au gmtL	Ag gmtL	CuES	Au gmtS	Ag gmtS
0	6	OVERBURDEN									
6	18	SILICEOUS ANDESITE	6.00	8.00	2.00	0.127	0.100	0.400	0.128	0.150	0.200
		Non to slightly calcareous.	8.00	10.00	2.00	0.169	0.160	0.400			
		1-2% py, 1-2% magnetite.	10.00	12.00	2.00	0.362	0.190	0.400	0.358	0.230	0.200
			12.00	14.00	2.00	0.375	0.260	0.400			
			14.00	16.00	2.00	0.407	0.210	0.800	0.478	0.300	1.400
			16.00	18.00	2.00	0.246	0.130	0.200			
18	32	SILICEOUS ANDESITE	18.00	20.00	2.00	0.309	0.280	0.400	0.277	0.180	0.200
		Noncalcareous.	20.00	22.00	2.00	0.387	0.460	1.600			
		2-3% py, 4% magnetite.	22.00	24.00	2.00	0.408	0.610	0.800	0.375	0.670	0.200
		30-32 Quartz stringers.	24.00	26.00	2.00	0.276	0.220	0.800			
			26.00	28.00	2.00	0.269	0.250	0.400	0.304	0.250	0.400
			28.00	30.00	2.00	0.262	0.230	0.200			
			30.00	32.00	2.00	0.257	0.360	1.600	0.185	0.160	0.400
32	40	CALC-SIL ALT. ANDESITE	32.00	34.00	2.00	0.100	0.240	1.200	0.096	0.220	0.200
		Moderately calcareous.	34.00	36.00	2.00				0.077	0.210	0.200
		2-3% py, 1-2% magnetite, trace chalcopyrite.	36.00	38.00	2.00				0.107	0.080	0.200
		38-40 Quartz stringers.	38.00	40.00	2.00				0.067	0.040	0.200
40	54	SILICEOUS ANDESITE	40.00	42.00	2.00				0.147	0.110	0.200
		Slightly calcareous.	42.00	44.00	2.00				0.101	0.070	0.200
		3% pyrite, trace - 2% magnetite.	44.00	46.00	2.00				0.129	0.080	0.200
		40-48 Quartz stringers.	46.00	48.00	2.00				0.177	0.060	0.200
			48.00	50.00	2.00				0.090	0.030	0.200
			50.00	52.00	2.00				0.094	0.060	0.200
			52.00	54.00	2.00				0.089	0.100	0.200
54	74	SILICA-CHLORITE ALT. ANDESITE	54.00	56.00	2.00				0.095	0.150	0.200
		Moderately calcareous.	56.00	58.00	2.00				0.078	0.070	0.200
		Slight increase in epidote.	58.00	60.00	2.00				0.735	0.090	0.200
		3% pyrite, trace to 1% magnetite,	60.00	62.00	2.00				0.099	0.050	0.200
		trace to 1% chalcopyrite.	62.00	64.00	2.00				0.228	0.170	0.800
			64.00	66.00	2.00				0.139	0.120	0.200

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-2

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuSL	Au gmtL	Ag gmtL	CuSS	Au gmtS	Ag gmtS
			66.00	68.00	2.00				0.251	0.240	0.200
			68.00	70.00	2.00				0.194	0.180	0.200
			70.00	72.00	2.00				0.176	0.280	0.400
			72.00	74.00	2.00				0.166	5.800	12.400
74	86	CALC-SIL ALT. ANDESITE	74.00	76.00	2.00				0.156	1.200	6.000
		Moderately calcareous. Increase	76.00	78.00	2.00				0.147	0.250	0.200
		in magnetite content.	78.00	80.00	2.00				0.157	0.270	0.200
		3-4% pyrite, 6-8% magnetite,	80.00	82.00	2.00				0.124	0.280	0.400
		trace to 1% chalcopyrite.	82.00	84.00	2.00		NIL		0.145	0.310	0.200
		82-86 10% magnetite & quartz stringers.	84.00	86.00	2.00				0.111	0.170	0.800
86	92	SILICEOUS ANDESITE	86.00	88.00	2.00	0.028	0.030	0.200			
		Slightly - moderately calcareous.	88.00	90.00	2.00	0.047	0.160	0.400			
		2% pyrite, 2% magnetite.	90.00	92.00	2.00	0.074	0.140	0.200			
92	112	SILICA-CHLORITE ALT. ANDESITE	92.00	94.00	2.00	0.087	0.120	1.600			
		Slightly calcareous. Increase in	94.00	96.00	2.00	0.154	0.230	0.400			
		chloritized mafics and fractures.	96.00	98.00	2.00	0.124	0.160	0.200			
		1-3% pyrite, 1-2% magnetite.	98.00	100.00	2.00	0.109	0.080	0.200			
		92-96 Quartz stringers.	100.00	102.00	2.00	0.139	0.230	0.200	0.138	0.150	0.200
		96-108 Quartz stringers.	102.00	104.00	2.00	0.230	0.320	0.200	0.254	0.380	0.400
		E.O.H.	104.00	106.00	2.00	0.133	0.230	0.200	0.129	0.180	0.200
			106.00	108.00	2.00	0.168	0.200	0.200	0.159	0.240	0.400
			108.00	110.00	2.00	0.165	0.180	0.200	0.134	0.180	0.200
			110.00	112.00	2.00	0.153	0.220	0.200	0.157	0.180	0.400

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-3
Collar Eastings: 3132.00
Collar Northings: 1992.00
Collar Elevation: 1735.00
Grid: METRIC

Collar Inclination: -50.00
Grid Bearing: 33.00
Final Depth: 60.00 metres
Reverse Circulation

Logged by: GRC
Date: MAR 9/93
Down-hole Survey:
Midnight Sun Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuEL	Au gmtL	Ag gmtL	CuES	Au gmtS	Ag gmtS
0	8	OVERBURDEN									
8	14	SILICEOUS ANDESITE	8.00	10.00	2.00	0.383	2.300	1.200	0.310	1.600	1.200
		Fine grained, silica flooded.	10.00	12.00	2.00	0.178	0.200	0.400	0.178	0.370	0.800
		Slightly calcareous.	12.00	14.00	2.00	0.193	0.800	0.200	0.068	0.310	0.200
		2-3% pyrite.									
14	34	CALC-SIL ALT ANDESITE	14.00	16.00	2.00				0.066	0.050	0.200
		Moderately calcareous.	16.00	18.00	2.00				0.053	0.060	0.400
		2% pyrite, 1-2% magnetite.	18.00	20.00	2.00				0.107	0.060	0.400
		14-16 Sericitic fractures.	20.00	22.00	2.00				0.065	0.030	0.400
		16-18 Quartz stringers.	22.00	24.00	2.00				0.095	0.040	0.200
		22-24 Quartz stringers.	24.00	26.00	2.00				0.090	0.060	0.400
		26-28 Quartz stringers.	26.00	28.00	2.00				0.128	0.060	0.400
			28.00	30.00	2.00				0.061	0.040	0.400
			30.00	32.00	2.00				0.095	0.100	1.200
			32.00	34.00	2.00				0.087	0.050	0.800
34	42	CALCAREOUS ANDESITE	34.00	36.00	2.00				0.070	0.060	0.400
		Strongly calcareous.	36.00	38.00	2.00				0.054	0.040	0.800
		2% pyrite, trace magnetite.	38.00	40.00	2.00				0.102	0.060	0.400
			40.00	42.00	2.00	0.087	0.100	0.200	0.085	0.140	0.800
42	60	SILICA-CHLORITE ALT ANDESITE	42.00	44.00	2.00	0.117	0.160	0.200	0.115	0.100	0.800
		Slightly calcareous.	44.00	46.00	2.00	0.211	0.150	0.400	0.212	0.200	1.200
		1-2% pyrite, 1% magnetite, trace	46.00	48.00	2.00	0.145	0.360	0.200	0.155	0.280	0.800
		chalcopyrite.	48.00	50.00	2.00				0.043	0.050	0.400
		42-44 Quartz stringers.	50.00	52.00	2.00	0.063	0.050	0.200	0.066	0.050	0.400
		46-48 Quartz stringers.	52.00	54.00	2.00	0.132	0.140	0.200	0.132	0.170	0.800
		50-52 Quartz stringers.	54.00	56.00	2.00	0.117	0.070	0.200	0.131	0.080	0.400
		58-60 Quartz stringers.	56.00	58.00	2.00	0.156	0.100	0.400	0.073	0.040	0.400

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-4
Collar Eastings: 2790.00
Collar Northings: 1937.00
Collar Elevation: 1737.00
Grid: METRIC

Collar Inclination: -50.00
Grid Bearing: 50.00
Final Depth: 120.00 metres
Recerse Circulation

Logged by: GRC
Date: MAR 9/93
Down-hole Survey:
Midnight Sun Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuIL	Au gmtL	Ag gmtL	CuIS	Au gmtS	Ag gmtS
0	10	OVERBURDEN									
10	22	CALC-SIL ALT ANDESITE	10.00	12.00	2.00	0.053	0.050	0.400	0.060	0.040	0.400
		Strongly calcareous.	12.00	14.00	2.00	0.023	0.020	0.400	0.032	0.010	0.400
		1-2% pyrite, 3% magnetite, trace chalcopyrite.	14.00	16.00	2.00	0.040	0.010	0.400	0.050	0.010	0.800
		10-12 Quartz stringers.	16.00	18.00	2.00	0.196	0.070	1.600	0.345	0.130	3.200
		18-22 Quartz stringers.	18.00	20.00	2.00	0.378	0.200	0.400	0.477	0.280	4.800
		16-22 *Trace to 1% chalcopyrite.*	20.00	22.00	2.00	0.261	0.130	3.200	0.223	0.120	2.800
22	32	SKARNED ANDESITE	22.00	24.00	2.00	0.113	0.090	1.600	0.099	0.030	1.200
		Strongly calcareous. Increase in	24.00	26.00	2.00	0.078	0.050	0.800	0.052	0.020	0.800
		magnetite, chlorite & epidote.	26.00	28.00	2.00	0.048	0.020	0.400	0.053	0.040	1.200
		1-2% pyrite, 4-5% magnetite.	28.00	30.00	2.00	0.049	0.040	1.200	0.081	0.080	1.200
		30-32 Quartz stringers.	30.00	32.00	2.00	0.087	0.070	1.200	0.109	0.110	1.600
32	40	CHLORITE-CARB ALT ANDESITE	32.00	34.00	2.00	0.200	0.110	1.600	0.164	0.180	2.400
		Increase in chlorite content.	34.00	36.00	2.00	0.157	0.140	2.400	0.139	0.130	2.000
		2% pyrite, 1% magnetite, trace chalcopyrite.	36.00	38.00	2.00	0.139	0.120	2.000	0.337	0.240	4.000
			38.00	40.00	2.00	0.413	0.240	5.600	0.178	0.180	2.800
40	50	INTENSE CALC-SIL ALT ANDESITE	40.00	42.00	2.00	0.159	0.180	2.800	0.050	0.100	1.200
		Extremely flooded to very pale green color.	42.00	44.00	2.00				0.200	0.240	2.800
		2% pyrite.	44.00	46.00	2.00	0.162	0.170	2.800	0.268	0.540	4.000
			46.00	48.00	2.00	0.296	0.520	4.800	0.225	0.240	1.200
			48.00	50.00	2.00	0.179	0.370	3.200	0.239	0.380	3.200
50	120	SKARNED ANDESITE	50.00	52.00	2.00	0.242	0.330	3.600	0.291	0.340	2.800
		Dark green, dense, fine grained, magnetite and chlorite	52.00	54.00	2.00	0.244	0.320	2.800	0.481	0.620	3.600
		rich andesite.	54.00	56.00	2.00	0.483	0.670	3.400	0.446	0.510	5.200
		Slightly calcareous.	56.00	58.00	2.00	0.300	0.270	2.400	0.354	0.320	2.400
		1-3% pyrite, 8-10% magnetite, trace to 1% chalcopyrite.	58.00	60.00	2.00	0.292	0.280	2.400	0.401	0.410	2.800
		70-76 Increase in pyrite to 5%.	60.00	62.00	2.00	0.446	0.520	2.800	0.551	0.780	3.200
		62-90, Quartz stringers.	62.00	64.00	2.00	0.244	0.340	1.600	0.266	0.350	1.600
		100-102 Quartz-sericite altered zone.	64.00	66.00	2.00	0.183	0.130	1.200	0.329	0.220	1.600
		116-118 Quartz-sericite altered zone.	66.00	68.00	2.00	0.157	0.200	1.200	0.186	0.290	1.200
			68.00	70.00	2.00	0.527	1.000	4.800	0.405	1.600	2.800

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-4

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuXL	Au gmtL	Ag gmtL	CuXS	Au gmtS	Ag gmtS
			70.00	72.00	2.00	0.700	2.700	4.800	0.849	5.600	6.000
			72.00	74.00	2.00	0.799	2.900	6.000	0.879	3.200	6.400
			74.00	76.00	2.00	0.444	1.200	2.400	0.499	1.300	3.200
			76.00	78.00	2.00	0.696	2.000	6.800	0.476	1.210	4.000
			78.00	80.00	2.00	0.305	0.700	2.000	0.266	0.850	2.000
			80.00	82.00	2.00	0.551	2.200	3.200	0.432	1.800	2.000
			82.00	84.00	2.00	0.185	0.650	0.800	0.191	0.660	1.200
			84.00	86.00	2.00	0.258	0.800	1.600	0.565	3.500	3.200
			86.00	88.00	2.00	0.520	2.300	2.400	0.576	1.500	5.600
			88.00	90.00	2.00	0.294	0.570	2.400	0.299	0.540	2.800
			90.00	92.00	2.00	0.195	0.190	1.200	0.207	0.270	2.000
			92.00	94.00	2.00	0.276	0.310	1.600	0.516	0.980	4.400
			94.00	96.00	2.00	0.241	0.430	1.600	0.256	0.410	2.000
			96.00	98.00	2.00	0.177	0.270	1.200	0.194	0.460	2.000
			98.00	100.00	2.00	0.201	0.320	2.400	0.182	0.300	2.000
			100.00	102.00	2.00	0.204	0.400	3.600	0.186	0.410	4.400
			102.00	104.00	2.00	0.075	0.110	0.400	0.081	0.120	1.200
			104.00	106.00	2.00	0.120	0.140	0.400	0.109	0.120	0.400
			106.00	108.00	2.00	0.233	0.340	1.600	0.166	0.230	1.200
			108.00	110.00	2.00	0.116	0.160	0.400	0.218	0.730	1.600
			110.00	112.00	2.00	0.133	0.140	0.400	0.124	0.120	0.800
			112.00	114.00	2.00	0.214	0.280	0.400	0.194	0.430	1.200
			114.00	116.00	2.00	0.138	0.140	0.400	0.090	0.080	0.800
			116.00	118.00	2.00	0.252	0.250	1.200	0.096	0.310	2.000
			118.00	120.00	2.00	0.204	0.260	1.600	0.225	0.380	2.000

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-5
Collar Eastings: 2655.00
Collar Northings: 1930.00
Collar Elevation: 1737.00
Grid: METRIC

Collar Inclination: -50.00
Grid Bearing: 60.00
Final Depth: 100.00 metres
Reverse Circulation

Logged by: GRC
Date: MAR 9/93
Down-hole Survey:
Midnight Sun Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuIL	Au gmtL	Ag gmtL	CuIS	Au gmtS	Ag gmtS
0	12	OVERBURDEN									
12	22	CALC-SIL ALT ANDESITE	12.00	14.00	2.00						
		Strongly calcareous.	14.00	16.00	2.00	0.137	0.180	0.400	0.172	0.180	1.200
		2-3% pyrite, 7-8% magnetite, trace to	16.00	18.00	2.00	0.399	0.570	2.800			
		1% chalcopyrite.	18.00	20.00	2.00	0.485	0.860	10.800	0.461	0.300	22.400
			20.00	22.00	2.00	0.324	0.670	4.000	0.354	0.640	4.800
22	32	LIMESTONE BRECCIA	22.00	24.00	2.00	0.200	0.650	2.000	0.214	0.490	2.400
		Limestone clasts within andesitic matrix.	24.00	26.00	2.00	0.135	0.180	0.400	0.154	0.240	1.200
		Strongly calcareous.	26.00	28.00	2.00	0.081	0.100	0.400	0.061	0.100	1.200
		1-2% pyrite, 4% magnetite, trace chalcopyrite.	28.00	30.00	2.00	0.235	0.350	2.000	0.208	0.360	2.400
			30.00	32.00	2.00	0.278	0.400	2.400	0.231	0.360	2.400
32	44	CALC-SIL ALT ANDESITE	32.00	34.00	2.00	0.368	0.430	2.400	0.384	0.430	2.800
		Strongly calcareous.	34.00	36.00	2.00	0.184	0.250	0.800	0.185	0.250	1.600
		1% pyrite, 5-7% magnetite, trace to	36.00	38.00	2.00	0.552	0.680	7.200	0.868	0.940	9.200
		1% chalcopyrite.	38.00	40.00	2.00	0.297	0.900	8.800	0.269	0.810	8.400
			40.00	42.00	2.00	0.265	0.630	6.400	0.252	0.820	4.000
			42.00	44.00	2.00	0.245	0.840	3.600	0.086	1.100	4.800
44	48	QUARTZ/CALCITE VEIN STOCKWORK	44.00	46.00	2.00	0.157	0.630	3.200	0.120	0.810	5.200
		50-60% quartz/calcite vein material	46.00	48.00	2.00	0.117	1.200	6.400	0.295	0.650	5.600
		in andesite host.									
		2-3% pyrite, 3-4% magnetite.									
48	62	CALC-SIL ALT ANDESITE	48.00	50.00	2.00	0.274	0.810	6.000	0.172	0.450	2.800
		Strongly calcareous. Increase in	50.00	52.00	2.00	0.195	0.630	3.200	0.283	1.000	4.000
		magnetite. Quartz-calcite stringers throughout.	52.00	54.00	2.00	0.245	1.500	3.600	0.303	1.300	4.000
		2-3% pyrite, 8-10% magnetite, trace to	54.00	56.00	2.00	0.229	1.200	2.800	0.277	1.100	3.600
		<1% chalcopyrite.	56.00	58.00	2.00	0.240	1.600	4.000	0.273	2.400	5.200
			58.00	60.00	2.00	0.227	2.400	4.800	0.222	2.000	5.600
			60.00	62.00	2.00	0.154	1.700	3.600	0.127	2.000	6.400
62	70	MAGNETITE SKARN	62.00	64.00	2.00	0.276	8.200	6.800	0.240	8.200	7.200
		Fine grained silica & magnetite flood zone.	64.00	66.00	2.00	0.465	3.400	4.000	0.398	3.000	4.000
		4% pyrite, 20-30% magnetite, <1 to 2%	66.00	68.00	2.00	0.616	4.100	6.000	0.535	4.600	6.000

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-5

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuIL	Au gmtL	Ag gmtL	CuIS	Au gmtS	Ag gmtS
		chalcopyrite.	68.00	70.00	2.00	0.179	0.080	0.800	0.120	0.490	1.600
		Moderately calcareous.									
70	72	QUARTZ-SERICITE ALT ZONE	70.00	72.00	2.00	0.087	2.000	2.000	0.088	1.600	3.200
		Slightly calcareous with quartz, calcite stringers.									
		2% pyrite, 3-4% magnetite.									
72	76	CALC-SIL ALT ANDESITE	72.00	74.00	2.00	0.057	1.500	3.600	0.057	1.300	4.800
		Quartz, calcite stringers throughout.	74.00	76.00	2.00	0.025	0.220	0.200	0.024	0.160	1.200
		2% pyrite, 2% magnetite.									
76	78	QUARTZ-SERICITE ALT ZONE	76.00	78.00	2.00	0.024	0.260	0.200	0.028	0.240	0.400
		Same as 70-72 m.									
		2% pyrite, 1-2% magnetite.									
78	100	CALC-SIL ALT ANDESITE	78.00	80.00	2.00	0.024	0.060	0.200	0.021	0.070	0.200
		Slightly to moderately calcareous.	80.00	82.00	2.00	0.031	0.060	0.200	0.034	0.080	0.400
		1-2% pyrite, trace to 2% magnetite.	82.00	84.00	2.00	0.076	0.250	0.800	0.082	0.350	1.200
		82-84 Quartz-sericite altered zone.	84.00	86.00	2.00	0.021	0.110	0.200	0.014	0.080	0.200
		88-90 Quartz-sericite altered zone.	86.00	88.00	2.00	0.750	2.400	6.000	0.827	1.500	6.000
			88.00	90.00	2.00	0.039	0.280	1.600	0.036	0.230	0.800
			90.00	92.00	2.00	0.029	0.120	0.800	0.061	0.140	0.800
			92.00	94.00	2.00	0.015	0.050	0.200	0.013	0.050	0.200
			94.00	96.00	2.00	0.036	0.190	1.200	0.046	0.180	0.800
			96.00	98.00	2.00	0.077	0.310	2.800	0.087	0.240	2.400
			98.00	100.00	2.00	0.022	0.140	1.200	0.022	0.180	0.400

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-6
Collar Eastings: 2727.00
Collar Northings: 1880.00
Collar Elevation: 1737.00
Grid: METRIC

Collar Inclination: -50.00
Grid Bearing: 60.00
Final Depth: 80.00 metres
Reverse Circulation

Logged by: GRC
Date: MAR 10/93
Down-hole Survey:
Midnight Sun Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuIL	Au gmtL	Ag gmtL	CuIS	Au gmtS	Ag gmtS
0	12	OVERBURDEN									
12	42	CALC-SIL ALT ANDESITE	12.00	14.00	2.00				0.024	0.070	0.200
		Strongly calcareous.	14.00	16.00	2.00				0.027	0.020	0.200
		1-2% pyrite, trace to 1% magnetite.	16.00	18.00	2.00						
		12-20 Hematite stained fractures,	18.00	20.00	2.00				0.068	0.010	0.200
		3% magnetite (fault?).	20.00	22.00	2.00				0.010	0.010	0.200
			22.00	24.00	2.00				0.052	0.050	0.400
			24.00	26.00	2.00				0.034	0.030	0.400
			26.00	28.00	2.00				0.045	0.040	0.200
			28.00	30.00	2.00				0.053	0.050	0.400
			30.00	32.00	2.00				0.044	0.040	0.400
			32.00	34.00	2.00				0.037	0.040	0.200
			34.00	36.00	2.00				0.025	0.030	0.400
			36.00	38.00	2.00				0.099	0.090	0.400
			38.00	40.00	2.00				0.029	0.030	0.200
			40.00	42.00	2.00				0.067	0.050	0.400
42	50	ALTERED ANDESITE	42.00	44.00	2.00				0.039	0.030	0.200
		Chlorite, sericite increases.	44.00	46.00	2.00				0.075	0.110	0.800
		Slightly calcareous.	46.00	48.00	2.00				0.045	0.120	0.400
		3% pyrite, trace magnetite.	48.00	50.00	2.00				0.075	0.030	0.800
50	56	CALC-SILIC ALT ANDESITE	50.00	52.00	2.00				0.070	0.080	0.400
		Increase in pervasive carbonate.	52.00	54.00	2.00				0.110	0.070	1.600
		Moderately to strongly calcareous.	54.00	56.00	2.00	0.235	0.110	2.400	0.220	0.100	1.600
		2% pyrite, trace magnetite, trace chalcopyrite.									
		50-52 Quartz, calcite stringers.									
56	62	CHLORITIZED ANDESITE	56.00	58.00	2.00	0.314	0.150	2.800	0.303	0.130	1.600
		Darker green, denser, increase in	58.00	60.00	2.00	0.282	0.200	3.200	0.259	0.170	2.400
		magnetite content.	60.00	62.00	2.00	0.191	0.180	1.600	0.189	0.130	1.200
		Slightly to moderately calcareous.									
		2% pyrite, 2-3% magnetite, trace chalcopyrite.									
62	70	QUARTZ-SERICITE ALT ZONE	62.00	64.00	2.00				0.150	0.240	2.400

NORANDA EXPLORATION CO. LTD.

DIAMOND DRILL LOG

PROPERTY: KLIYUL
HOLE No.: KL93-6

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	CuEL	Au gmtL	Ag gmtL	CuES	Au gmtS	Ag gmtS
		Moderately calcareous.	64.00	66.00	2.00	0.181	0.480	4.000	0.223	0.550	4.800
		4-5% pyrite, 1-2% magnetite.	66.00	68.00	2.00	0.217	0.300	2.400	0.323	0.340	2.400
		66-68 Less altered, <1% cpy.	68.00	70.00	2.00	0.118	0.200	2.000	0.176	0.260	1.600
70	80	CHLORITIZED ANDESITE	70.00	72.00	2.00	0.095	0.120	1.600	0.122	0.130	0.800
		Slightly calcareous.	72.00	74.00	2.00	0.201	0.210	1.200	0.235	0.190	1.200
		2-3% pyrite, 4-5% magnetite, trace chalcopyrite.	74.00	76.00	2.00	0.169	0.190	1.200	0.193	0.180	1.200
			76.00	78.00	2.00	0.247	0.240	2.400	0.221	0.190	1.600
			78.00	80.00	2.00	0.319	0.320	2.400	0.274	0.270	2.000

APPENDIX IV

SAMPLE DESCRIPTIONS/ASSAY SHEETS

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 118

LAB REPORT # _____

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

DATE Feb 20/93.

PROJECT Kinoc Rc-KL-93-1

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)								SAMPLED BY
70252	4-6 meters		CORE CHIPS	2.0								
70253	6-8		↓	↓								
70254	8-10											
70255	10-12											
70256	12-14											
70257	14-16											
70258	16-18											
70259	18-20											
70260	20-22											
70261	22-24											
70262	24-26											
70263	26-28											
70264	28-30											
70265	30-32											
70266	32-34											
70267	34-36											
70268	36-38											
70269	38-40											
70270	40-42											
70271	42-44											
70272	44-46											
70273	46-48											
70274	48-50											
70275	50-52											
70276	52-54 V		↓	↓								

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 148

LAB REPORT # _____

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

DATE Feb 20/93

PROJECT Kemess Rc-KC-93-1

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)								SAMPLED BY
70277	54-56 meters		CORE CHIPS	2.0								
70278	56-58											
70279	58-60											
70280	60-67											
70281	62-64											
70282	64-66											
70283	66-68											
70284	68-70											
70285	70-72											
70286	72-74											
70287	74-76											
70288	76-78											
70289	78-80											
70290	80-82											
70291	82-84											
70292	84-86											
70273	86-88 E.O.H.			2.0								

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 148

LAB REPORT # _____

N.T.S. 94D/5+9

DATE Feb 22/93

PROJECT KLINOC RC-KC-93-2

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)								SAMPLED BY
70297	6-8 meters		CHIPS	2.0m								
70298	8-10											
70299	10-12											
70300	12-14											
70301	14-16											
70302	16-18											
70303	18-20											
70304	20-22											
70305	22-24											
70306	24-26											
70307	26-28											
70308	28-30											
70309	30-32											
70310	32-34											
70311	34-36											
70312	36-38											
70313	38-40											
70314	40-42											
70315	42-44											
70316	44-46											
70317	46-48											
70318	48-50											
70319	50-52											
70320	52-54											
70321	54-56											

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 148

LAB REPORT # _____

N.T.S. 94D/8E9

DATE Feb 22/93

PROJECT Kliyul RC-KC-93-2

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)								SAMPLED BY
70322	56-58 metres		CORE CHIPS	2.0m								
70323	58-60											
70324	60-62											
70325	62-64											
70326	64-66											
70327	66-68											
70328	68-70											
70329	70-72											
70330	72-74											
70331	74-76											
70332	76-78											
70333	78-80											
70334	80-82											
70335	82-84											
70336	84-86											
70337	86-88											
70338	88-90											
70339	90-92											
70340	92-94											
70341	94-96											
70342	96-98			"								
70343	98-100											
70344	100-102											
70345	102-104											
70346	104-106		↓	↓								

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 148

LAB REPORT # _____

N.T.S. 94D/ET9

DATE Feb 23/93

PROJECT Kliyul RC-KL-93-7

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)								SAMPLED BY
70397	106-108 meters		core chips	2.0								
70398	108-110 ↓		↓	↓								
70399	110-112 ↓ E.O.H.											

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/ 1/2

PROPERTY KLIYUL RC-KL-93-3

DATE Feb 24/94

ROCK SAMPLE REPORT

PROJECT 148

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
							ICP (30 element) + Au					
70352	8-10 m.		CORE CHIPS	2.0m								
70353	10-12 m											
70354	12-14 m											
70355	14-16 m											
70356	16-18 m											
70357	18-20 m											
70358	20-22 m											
70359	22-24 m											
70360	24-26 m											
70361	26-28 m											
70362	28-30 m											
70363	30-32 m											
70364	32-34 m											
70365	34-36 m											
70366	36-38 m											
70367	38-40 m											
70368	40-42 m											
70369	42-44 m											
70370	44-46 m											
70371	46-48 m											
70372	48-50 m											
70373	50-52 m											
70374	52-54 m											

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/

PROPERTY Kliyul RC-KL-93-3

DATE Feb 24/93

PROJECT 148

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
						ICP(30) + Au						
70375	54-56m		core chip	2.0m								
70376	56-58m		↓	↓								
70377	55-60 m		↓	↓								

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/9 1/3

PROPERTY KLIYUL Rc-KL-93-4

DATE Feb 25/93

ROCK SAMPLE REPORT

PROJECT 198

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
						ICP(30		+ Au				
70378	10-12 m		CORE CHIPS	2.0 m								
70379	12-14 m											
70380	14-16 m											
70351	16-18 m											
70352	18-20 m											
70383	20-22 m											
70384	22-24 m											
70385	24-26 m											
70386	26-28 m											
70387	28-30 m											
70388	30-32 m											
70389	32-34 m											
70390	34-36 m											
70391	36-38 m											
70392	38-40 m											
70393	40-42 m											
70394	42-44 m											
70395	44-46 m											
70396	46-48 m											
70397	48-50 m											
70398	50-52 m											
70399	52-54 m											
70400	54-56 m											

G = GEOCHEM A = ASSAY

A

2/3

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/9

PROPERTY KLIYUL RC-KL-93-4

DATE Feb 25/93

ROCK SAMPLE REPORT

PROJECT 148

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
							ICP (30) + Au					
70401	56 - 58 m		core chips	2.0m								
70402	58 - 60 m											
70403	60 - 62 m											
70404	62 - 64 m											
70405	64 - 66 m											
70406	66 - 68 m											
70407	68 - 70 m											
70408	70 - 72 m											
70410	72 - 74 m											
70411	74 - 76 m											
70412	76 - 78 m											
70413	78 - 80 m											
70414	80 - 82 m											
70415	82 - 84 m											
70416	84 - 86 m											
70417	86 - 88 m											
70418	88 - 90 m											
70419	90 - 92 m											
70420	92 - 94 m											
70421	94 - 96 m											
70422	96 - 98 m											
70423	98 - 100 m											
70424	100 - 102 m											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/9

PROPERTY ILLIYUL RC-IL-93-4

DATE Feb 25/93

ROCK SAMPLE REPORT

PROJECT 148

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
						ICP(30)		+ Au				
70425	102 - 104 m		core chips	2.0m								
70426	104 - 106 m											
70427	106 - 108 m											
70428	108 - 110 m											
70429	110 - 112 m											
70430	112 - 114 m											
70431	114 - 116 m											
70432	116 - 118 m											
70433	118 - 120 m											

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94D/9. 1/2

PROPERTY RC-KL-93-5 KLIYUC.

DATE Feb 26/93

ROCK SAMPLE REPORT

PROJECT 148

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH (m)	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
						ICP(30) + Au.						
70435	12 - 14 m.		CORE CHIPS	2.0								
36	14 - 16											
37	16 - 18											
38	18 - 20											
39	20 - 22											
70440	22 - 24											
41	24 - 26											
42	26 - 28											
43	28 - 30											
44	30 - 32											
45	32 - 34											
46	34 - 36											
47	36 - 38											
48	38 - 40											
49	40 - 42											
70450	42 - 44											
51	44 - 46											
52	46 - 48											
53	48 - 50											
54	50 - 52											
55	52 - 54											
56	54 - 56											
70457	56 - 58 m.											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 940/9 2/2

PROPERTY KLIYUL RC-KL-93-5

DATE FEB 26/93

ROCK SAMPLE REPORT

PROJECT 198.

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH (m)	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
						ICP (30) + Au						
70458	58-60 m.		CORE CHIPS	2.0								
59	60 - 62											
70460	62 - 64											
61	64 - 66											
62	66 - 68											
63	68 - 70											
64	70 - 72											
65	72 - 74											
66	74 - 76											
67	76 - 78											
68	78 - 80											
69	80 - 82											
70470	82 - 84											
71	84 - 86											
72	86 - 88											
73	88 - 90											
74	90 - 92											
75	92 - 94											
76	94 - 96											
77	96 - 98											
70478	98 - 100m.											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 148

LAB REPORT # _____

N.T.S. 94O/6+9

DATE Feb 27/93

PROJECT KLINUL RC-KL-93-6

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)								SAMPLED BY
70482	12-14 meters		CHIPS	2.0								
70483	14-16		↓	↓								
70484	16-18											
70485	18-20											
70486	20-22											
70487	22-24											
70488	24-26											
70489	26-28											
70490	28-30											
70491	30-32											
70492	32-34											
70493	34-36											
70494	36-38											
70495	38-40											
70496	40-42											
70497	42-44											
70498	44-46											
70499	46-48											
70500	48-50											
70501	50-52											
70502	52-54											
70503	54-56											
70504	56-58											
70505	58-60											
70506	60-62 ↓		↓	↓								

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 148

LAB REPORT # _____

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

DATE Feb-27/93

PROJECT KLIYUL RC-KL-93-6

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)								SAMPLED BY
70507	62-64 metals		CHIP CHIP	2.0m								
70508	64-66											
70509	66-68											
70510	68-70											
70511	70-72											
70512	72-74											
70513	74-76											
70514	76-78											
70515	78-80	E.O.H.										

NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL – 148 Geol.: G.G Date received: MAR. 11 LAB CODE: 9303–016
Material: 159 RC (Bulk Samples) Sheet: 1 of 4 Date completed: MAR. 21
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. 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
	70265	110	0.2	4.44	2	337	0.4	5	1.61	0.2	52	15	22	1051	5.05	1.00	16	13	1.06	298	1	0.09	3	0.11	2	125	0.06	93	41
	70267	140	0.4	5.44	2	304	0.4	7	2.56	0.2	58	21	18	1741	5.41	1.13	15	17	1.58	558	4	0.11	8	0.09	2	141	0.10	156	61
	70269	130	0.8	6.16	5	401	0.4	5	2.14	0.2	53	27	13	1634	5.22	1.57	14	18	1.95	660	2	0.12	7	0.09	2	89	0.12	172	62
	70271	90	0.2	5.70	2	262	0.4	8	2.85	0.2	57	18	14	1039	5.09	0.95	13	19	2.04	626	3	0.10	8	0.08	2	132	0.12	171	62
	70273	70	0.2	5.58	2	206	0.4	9	3.07	0.2	56	28	56	1000	6.08	0.54	14	20	2.55	639	4	0.08	29	0.09	2	169	0.27	197	66
	70275	70	0.2	6.03	5	215	0.4	9	3.17	0.2	60	25	40	966	5.81	0.71	15	21	3.01	721	2	0.08	25	0.09	2	146	0.27	200	65
	70277	80	0.2	6.07	2	299	0.5	10	2.35	0.2	55	26	51	815	5.92	1.15	13	22	2.61	730	4	0.07	18	0.08	2	120	0.17	168	74
	70289	50	0.4	4.21	2	266	0.3	5	1.75	0.2	45	18	27	939	4.18	0.81	11	12	1.33	432	3	0.09	7	0.08	2	141	0.19	135	44
	70291	270	0.4	5.21	2	395	0.8	5	2.44	0.3	65	31	22	2212	5.44	1.30	17	18	1.63	570	8	0.09	8	0.09	2	124	0.29	187	74
	70297	100	0.4	4.78	4	600	0.6	5	1.25	0.2	48	16	30	1269	4.48	1.36	13	18	1.58	665	3	0.10	17	0.10	5	194	0.31	163	75
	70298	160	0.4	5.63	2	506	0.5	5	1.03	0.2	43	12	15	1687	4.67	1.81	13	19	1.72	551	3	0.08	10	0.09	2	91	0.34	158	67
	70299	180	0.4	5.49	2	280	0.4	5	0.86	0.2	39	14	11	3619	6.04	1.40	11	25	1.99	377	1	0.08	5	0.10	2	63	0.28	164	47
	70300	260	0.4	6.09	3	338	0.4	5	1.54	0.2	49	14	12	3754	6.61	1.81	14	19	1.40	584	3	0.09	6	0.10	2	101	0.26	193	57
	70301	210	0.8	5.52	2	350	0.4	5	1.24	0.2	47	17	11	4070	5.52	1.56	14	20	1.54	507	3	0.09	5	0.10	2	111	0.18	165	54
	70302	130	0.2	4.84	2	361	0.4	5	0.66	0.2	37	15	20	2456	4.88	1.51	13	17	1.34	309	4	0.09	6	0.10	2	59	0.13	144	49
	70303	280	0.4	4.36	2	298	0.4	5	1.16	0.2	44	14	16	3089	4.67	1.10	12	18	1.37	305	2	0.09	7	0.10	2	116	0.18	150	41
	70304	460	1.6	3.95	2	281	0.4	5	1.38	0.2	46	13	20	3867	6.53	0.92	13	16	1.11	365	2	0.09	6	0.09	2	152	0.20	168	43
	70305	610	0.8	4.42	3	313	0.4	5	1.74	0.2	54	13	21	4083	5.03	1.01	15	17	1.30	482	2	0.08	7	0.10	2	170	0.22	150	51
	70306	220	0.8	3.72	2	301	0.9	5	1.05	0.5	59	19	24	2763	6.31	0.96	20	21	1.17	385	35	0.09	7	0.09	9	99	0.23	211	54
	70307	250	0.4	3.86	2	339	0.4	5	1.06	0.2	44	14	15	2692	6.14	1.08	13	14	1.08	321	3	0.08	4	0.10	2	112	0.17	155	44
	70308	230	0.2	4.02	2	353	0.5	5	1.57	0.3	56	15	23	2624	5.69	0.75	14	18	1.54	523	3	0.09	13	0.11	4	209	0.23	156	62
	70309	300	1.6	3.82	2	355	0.5	6	1.60	1.1	60	15	15	2574	5.53	1.02	16	16	1.32	576	45	0.09	5	0.12	7	97	0.11	164	71
	70310	240	1.2	5.05	2	479	0.5	7	2.05	0.2	58	22	15	1003	5.79	1.29	15	21	1.65	598	8	0.11	6	0.10	20	90	0.08	178	78
	70337	30	0.2	3.88	2	722	0.7	5	2.64	0.2	70	11	14	278	4.22	1.28	19	12	1.02	812	1	0.09	5	0.12	2	165	0.13	107	71
	70338	160	0.4	3.53	3	730	0.6	5	2.31	0.2	70	15	20	470	4.63	1.06	19	12	0.98	786	3	0.11	6	0.12	3	191	0.18	117	70
	70339	140	0.2	4.53	2	605	0.4	7	0.87	0.2	39	27	13	743	5.26	1.44	12	14	1.40	462	5	0.09	5	0.08	2	90	0.14	128	76
	70340	120	1.6	4.74	2	480	0.4	5	1.18	0.2	42	22	12	866	5.42	1.44	11	16	1.51	395	7	0.08	5	0.07	2	86	0.10	167	62
	70341	230	0.4	4.85	2	392	0.4	6	1.01	0.2	41	22	12	1542	5.53	1.41	12	18	1.54	329	4	0.08	5	0.07	3	47	0.07	150	50
	70342	160	0.2	5.21	3	444	1.1	8	1.03	0.5	57	33	21	1241	5.66	1.59	18	26	1.55	318	5	0.11	11	0.08	8	42	0.06	179	53
	70343	80	0.2	5.04	2	445	0.4	5	0.99	0.2	44	29	14	1090	5.35	1.47	13	20	1.64	378	4	0.11	6	0.08	2	32	0.07	172	56
	70344	230	0.2	4.63	2	346	0.4	6	0.93	0.2	44	27	13	1389	5.67	1.31	13	19	1.63	323	7	0.10	5	0.07	2	36	0.07	147	47
	70345	320	0.2	4.68	2	339	0.4	6	0.94	0.2	42	27	16	2296	5.35	1.34	12	19	1.79	356	19	0.10	7	0.07	2	28	0.06	145	50
	70346	230	0.2	5.01	2	326	0.3	6	1.33	0.2	49	36	11	1327	5.81	1.23	13	19	1.67	355	6	0.10	5	0.08	2	94	0.07	162	47
	70347	200	0.2	4.61	4	309	0.3	9	1.51	0.2	54	34	14	1682	5.88	0.99	13	19	1.60	400	5	0.11	5	0.09	2	134	0.07	159	50
	70348	180	0.2	5.06	3	384	0.4	8	1.85	0.2	56	27	10	1649	5.58	1.17	14	17	1.59	445	3	0.11	6	0.09	2	147	0.10	159	56

09/16/93 09:50 NORANDA DELTA 604 940 8055 03

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
8	70349	220	0.2	4.36	2	285	0.4	8	1.86	0.2	56	32	14	1530	6.04	0.85	14	17	1.46	404	16	0.10	5	0.09	2	151	0.08	148	53
9	70352	2300	1.2	4.71	4	258	0.4	8	1.51	0.2	46	41	12	3829	5.73	1.20	11	23	1.51	703	10	0.12	7	0.09	4	34	0.06	161	54
10	70353	200	0.4	4.86	2	281	0.4	8	0.95	0.2	41	28	16	1781	5.09	1.41	11	21	1.59	484	5	0.12	6	0.09	2	27	0.05	169	46
11	70354	800	0.2	5.19	2	312	1.0	7	0.58	0.2	53	30	18	1934	4.97	1.42	19	29	1.91	338	7	0.12	9	0.09	50	27	0.06	153	39
12	70368	100	0.2	5.22	2	307	0.4	5	1.31	0.2	44	20	14	869	4.61	1.44	12	23	1.72	484	2	0.12	6	0.10	2	42	0.09	183	45
13	70369	160	0.2	5.50	2	302	0.4	5	1.19	0.2	45	21	15	1170	5.35	1.52	12	23	1.79	428	4	0.13	6	0.11	2	43	0.08	188	40
14	70370	150	0.4	6.17	2	395	0.4	5	0.81	0.2	38	20	12	2111	5.28	2.18	12	16	1.39	268	3	0.12	6	0.09	2	35	0.12	177	29
15	70371	260	0.2	5.21	2	416	0.4	5	1.00	0.2	40	20	11	1451	4.58	1.56	11	18	1.72	414	3	0.09	6	0.08	2	51	0.23	150	41
16	70373	50	0.2	4.83	2	398	0.5	5	1.94	0.2	60	16	12	633	5.69	1.11	17	18	1.52	560	2	0.09	6	0.11	2	178	0.26	168	48
17	70374	140	0.2	5.47	2	442	0.4	5	1.13	0.2	46	28	12	1321	5.99	1.78	13	16	1.50	261	3	0.10	6	0.09	2	61	0.24	172	31
18	70375	70	0.2	4.90	2	341	0.3	5	1.21	0.2	43	28	13	1171	5.03	1.27	10	19	1.68	247	12	0.10	6	0.10	2	88	0.25	189	31
1	70376	100	0.4	4.51	2	274	0.8	6	1.35	0.4	51	25	21	1560	5.16	1.00	16	22	1.57	376	6	0.09	7	0.10	3	98	0.19	161	43
2	70377	60	0.4	4.06	4	248	0.3	6	1.39	0.2	42	18	14	872	5.32	0.80	12	18	1.44	255	2	0.09	4	0.10	2	107	0.19	142	30
3	70378	50	0.4	4.59	6	576	0.5	6	1.63	0.2	49	17	16	534	5.52	1.40	14	19	2.11	1174	2	0.07	9	0.09	3	38	0.30	162	159
4	70379	20	0.4	5.52	14	685	0.5	9	2.14	0.3	55	23	31	232	5.49	1.80	15	20	2.48	1377	8	0.08	24	0.11	7	41	0.33	167	212
5	70380	10	0.4	3.99	10	475	0.4	5	2.02	0.5	52	20	32	400	5.94	1.08	13	16	1.88	1092	4	0.09	19	0.09	5	78	0.34	163	232
6	70381	70	1.6	5.02	4	644	0.4	6	2.01	1.0	51	21	22	1961	5.84	1.62	13	16	1.48	1393	2	0.08	19	0.10	7	100	0.38	181	326
7	70382	200	4.0	5.70	10	729	0.4	6	2.13	2.2	53	16	10	3778	5.38	2.11	14	14	1.17	1490	20	0.07	6	0.10	9	96	0.34	140	480
8	70383	130	3.2	5.84	12	670	0.6	6	2.52	1.4	55	19	14	2606	5.03	2.53	13	15	1.29	1608	11	0.06	9	0.09	8	35	0.22	135	252
9	70384	90	1.6	5.94	5	626	0.6	9	2.53	0.8	55	16	10	1133	5.17	2.28	14	17	1.56	1698	4	0.07	6	0.09	6	72	0.26	155	309
0	70385	50	0.8	5.08	7	444	0.4	5	2.04	0.4	54	18	12	781	6.43	1.56	14	17	1.51	1504	4	0.08	6	0.10	8	102	0.39	182	372
1	70386	20	0.4	5.32	6	230	0.9	5	5.16	0.4	72	33	40	483	7.85	0.71	16	33	2.96	2330	3	0.05	22	0.11	8	107	0.49	321	322
2	70387	40	1.2	4.60	11	220	0.6	6	6.36	0.2	67	36	165	490	6.81	0.70	13	26	3.34	2148	2	0.05	83	0.10	3	73	0.25	233	287
3	70388	70	1.2	4.90	14	475	0.7	6	5.18	0.3	65	29	97	869	6.11	1.43	13	23	2.60	1836	7	0.06	42	0.09	7	62	0.16	183	250
4	70389	110	1.6	5.10	16	568	0.7	5	4.02	0.2	58	26	46	996	6.10	1.63	13	23	2.65	1657	4	0.06	25	0.10	10	45	0.12	172	215
5	70390	140	2.4	6.21	16	646	0.8	7	3.54	0.2	62	23	41	1565	6.26	2.12	14	25	2.84	1647	3	0.07	25	0.10	5	34	0.11	181	226
6	70391	120	2.0	5.20	14	348	0.7	8	6.76	0.2	70	36	158	1390	6.04	1.39	14	25	3.19	2457	2	0.05	77	0.09	6	53	0.08	171	249
7	70392	240	5.6	4.61	9	379	0.6	5	4.53	0.8	63	29	88	4134	6.05	1.36	14	21	2.43	1769	4	0.06	46	0.09	9	46	0.15	160	250
8	70393	180	2.8	4.51	8	314	0.6	5	5.98	0.2	68	29	164	1585	4.92	1.40	12	20	2.39	1839	4	0.05	80	0.08	9	42	0.08	149	237
9	70395	170	2.8	4.79	14	411	0.6	5	4.87	0.2	65	17	35	1615	3.92	2.08	12	13	0.91	1596	7	0.07	19	0.08	3	35	0.14	125	155
0	70396	520	4.8	5.76	14	415	0.5	5	1.74	0.2	49	17	18	2955	4.87	2.50	11	13	0.94	1019	11	0.07	9	0.08	5	28	0.19	130	120
1	70397	370	3.2	5.03	11	362	0.9	5	4.02	0.2	72	21	20	1787	4.23	2.20	18	16	0.67	1459	16	0.07	9	0.08	8	43	0.19	129	91
2	70398	330	3.6	6.04	10	510	0.6	7	3.03	0.2	60	17	15	2421	5.22	2.70	12	14	1.00	1211	6	0.07	10	0.10	7	35	0.17	155	132
3	70399	320	2.8	5.06	7	461	0.5	5	2.40	0.2	55	14	12	2437	5.45	2.13	12	15	1.14	964	4	0.07	7	0.09	3	39	0.24	154	187
4	70400	670	3.4	4.50	9	403	0.4	10	2.01	0.2	55	18	17	4026	6.88	1.48	13	18	1.48	811	3	0.08	8	0.09	4	81	0.31	173	284
5	70401	270	2.4	4.68	6	468	0.4	5	2.27	0.2	57	18	12	3000	7.15	1.64	13	14	1.14	867	2	0.08	7	0.09	4	120	0.34	183	223
6	70402	280	2.4	5.73	5	563	0.4	5	1.88	0.2	53	17	10	2920	7.62	2.18	13	16	1.38	1066	1	0.08	8	0.10	5	99	0.38	186	226
7	70403	520	2.8	4.08	2	883	0.4	5	1.63	0.2	50	15	13	4462	5.59	1.63	12	12	0.91	518	2	0.09	7	0.09	3	62	0.30	164	186
8	70404	340	1.6	4.35	2	1418	0.4	5	1.11	0.2	41	14	11	2435	6.78	1.71	11	12	0.94	521	1	0.09	5	0.09	2	75	0.32	175	201
9	70405	170	1.2	4.16	7	766	0.4	8	1.40	0.2	46	16	17	1827	6.81	1.24	12	16	1.35	718	1	0.09	6	0.09	3	101	0.32	180	215
0	70406	200	1.2	3.56	3	658	0.3	5	1.17	0.2	40	13	14	1567	6.41	1.19	10	13	1.06	572	1	0.08	5	0.09	2	72	0.30	170	204
1	70407	3000	4.8	3.59	2	432	0.6	5	1.50	0.7	51	23	20	5268	7.26	1.28	14	14	0.84	696	2	0.08	7	0.13	7	69	0.22	136	210
2	70408	2700	4.8	3.74	4	596	0.4	5	1.27	0.3	42	29	18	7002	7.84	1.36	11	10	0.68	540	1	0.08	7	0.10	7	78	0.18	136	199
3	70410	2900	6.0	4.00	7	716	0.4	6	1.05	0.2	40	30	16	7991	9.85	1.57	10	10	0.71	656	2	0.08	6	0.11	5	59	0.23	156	209
4	70411	1200	2.4	3.63	6	559	0.3	5	1.26	0.2	40	15	16	4440	8.22	1.27	10	11	0.80	702	2	0.09	4	0.11	3	62	0.27	155	186

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	70412	2000	6.8	4.25	24	874	0.4	5	1.40	0.5	49	27	15	6956	9.77	1.58	13	10	0.80	850	3	0.08	5	0.10	24	79	0.26	148	226
86	70413	700	2.0	4.39	4	1133	0.4	5	1.31	0.2	47	15	12	3045	7.66	1.56	12	12	1.05	977	1	0.09	7	0.10	6	92	0.34	178	206
87	70414	2200	3.2	3.65	2	722	0.4	5	1.26	1.7	42	14	15	5508	8.55	1.38	11	11	0.84	767	2	0.09	4	0.11	2	47	0.26	176	478
88	70415	650	0.8	3.93	2	952	0.6	5	2.31	0.2	63	11	10	1848	5.44	1.69	15	10	0.74	865	1	0.08	4	0.10	2	68	0.17	122	137
89	70416	800	1.6	4.03	4	1032	0.4	5	1.28	0.2	43	16	13	2583	7.29	1.70	11	10	0.78	637	1	0.08	4	0.09	3	45	0.29	161	135
90	70417	2300	2.4	3.45	2	921	0.4	5	1.01	0.2	38	12	17	5201	6.56	1.41	11	9	0.71	505	1	0.07	4	0.09	2	41	0.26	141	112
91	70418	570	2.4	5.34	6	1104	1.0	7	2.12	0.2	63	27	16	2942	7.52	2.30	17	16	0.96	753	2	0.08	10	0.10	16	75	0.29	181	145
92	70419	190	1.2	6.96	3	1389	0.7	5	2.54	0.2	63	17	7	1951	7.04	3.21	14	14	0.96	829	1	0.08	9	0.11	6	62	0.34	194	116
93	70420	310	1.6	5.32	3	778	0.6	5	2.21	0.2	53	19	12	2762	9.89	2.06	13	19	1.19	994	1	0.07	7	0.11	6	49	0.22	185	154
94	70421	430	1.6	4.70	2	851	0.6	10	2.47	0.2	65	16	13	2410	5.99	1.93	14	15	1.14	771	1	0.08	8	0.11	5	56	0.19	161	131
95	70422	270	1.2	4.70	3	595	0.6	6	2.01	0.2	51	16	12	1765	7.78	1.71	13	20	1.58	995	1	0.09	5	0.11	4	37	0.16	165	158
96	70423	320	2.4	5.03	3	786	0.5	5	2.06	0.2	48	17	11	2013	6.33	2.23	13	14	1.14	945	5	0.07	7	0.09	8	30	0.13	148	115
97	70424	400	3.6	5.33	13	1085	0.5	5	1.26	0.2	45	22	10	2036	6.95	2.47	13	13	0.92	623	2	0.08	8	0.09	7	29	0.13	145	115
98	70425	110	0.4	3.43	2	1099	0.4	5	1.04	0.2	39	13	12	752	6.12	1.41	11	12	0.92	467	1	0.09	5	0.08	2	30	0.16	156	112
101	70426	140	0.4	3.69	5	1312	0.7	5	1.06	0.2	45	18	18	1203	7.99	1.41	15	15	0.98	563	2	0.10	6	0.10	2	67	0.29	153	124
102	70427	340	1.6	4.22	2	988	0.5	5	1.05	0.2	40	16	12	2327	6.50	1.66	12	13	1.05	536	1	0.09	4	0.09	2	58	0.30	184	155
103	70428	160	0.4	3.98	2	929	0.4	6	0.95	0.2	37	13	13	1155	6.21	1.58	12	12	1.03	497	1	0.09	5	0.09	2	56	0.30	186	125
104	70429	140	0.4	3.65	2	880	0.4	5	1.04	0.2	38	15	11	1331	6.10	1.34	10	11	0.97	484	1	0.09	5	0.09	2	70	0.29	181	110
105	70430	280	0.4	3.47	3	909	0.4	5	1.00	0.2	38	17	13	2137	7.02	1.20	12	12	1.01	498	1	0.09	5	0.09	2	77	0.29	197	135
106	70431	140	0.4	3.29	2	849	0.3	5	1.04	0.2	36	14	13	1380	6.40	1.22	11	11	0.87	452	1	0.10	5	0.09	2	79	0.29	181	122
107	70432	250	1.2	3.92	2	923	0.4	5	1.03	0.2	41	18	11	2516	6.56	1.75	13	9	0.67	414	2	0.10	4	0.09	2	54	0.33	198	128
108	70433	260	1.6	4.70	4	603	0.4	5	2.06	0.2	55	25	11	2044	7.95	1.76	15	11	0.82	708	3	0.09	7	0.09	6	153	0.32	190	149
109	70436	180	0.4	4.17	2	618	0.4	5	1.39	1.1	44	15	13	1366	5.29	1.40	11	24	1.06	534	2	0.09	6	0.09	4	29	0.16	155	360
110	70437	570	2.8	3.18	4	514	0.4	8	1.88	1.7	52	16	17	3994	8.00	1.13	12	20	0.79	659	2	0.11	5	0.09	4	15	0.05	179	383
111	70438	860	10.8	3.09	6	375	1.1	6	2.06	4.3	62	23	31	4051	8.67	1.12	17	25	1.04	775	8	0.10	8	0.09	9	17	0.04	208	399
112	70439	670	4.0	2.23	2	216	0.5	9	2.21	3.1	46	16	19	3238	7.42	0.65	11	21	1.08	916	3	0.10	5	0.08	2	17	0.04	142	596
113	70440	650	2.0	3.46	5	458	0.7	5	3.20	0.4	60	13	20	2004	5.96	1.64	12	9	1.02	1041	5	0.10	8	0.09	3	50	0.07	135	153
114	70441	180	0.4	3.70	2	362	0.7	5	2.67	0.4	57	18	13	1351	5.62	1.49	13	19	1.33	755	6	0.10	6	0.09	2	28	0.06	160	192
115	70442	100	0.4	4.39	4	421	0.9	5	3.68	0.3	59	18	20	806	5.65	1.88	13	16	1.63	1101	3	0.10	10	0.10	4	56	0.07	170	155
116	70443	350	2.0	4.10	4	446	0.9	6	2.68	0.4	56	17	16	2350	6.83	1.78	12	14	1.20	815	3	0.10	4	0.10	3	39	0.09	156	191
117	70444	400	2.4	3.02	6	356	0.7	5	2.26	0.9	51	13	17	2780	5.80	1.31	11	12	0.98	791	3	0.10	2	0.09	2	32	0.07	138	223
118	70445	430	2.4	2.66	3	295	0.4	6	1.70	4.3	46	16	17	3675	6.14	0.74	11	24	1.27	774	3	0.09	4	0.09	5	18	0.04	138	747
119	70446	250	0.8	3.27	2	322	0.5	5	1.91	0.4	48	14	16	1844	5.68	0.92	12	28	1.28	724	3	0.09	4	0.10	3	18	0.04	142	305
120	70447	680	7.2	3.43	7	344	0.5	6	2.32	1.4	52	18	20	5523	5.48	1.16	11	22	0.92	716	3	0.09	5	0.08	12	22	0.04	121	369
121	70448 S	900	8.8	3.20	5	286	0.8	12	2.80	0.8	60	18	26	2974	5.12	1.09	14	22	0.93	953	3	0.09	7	0.07	86	27	0.03	101	272
122	70449 S	630	6.4	4.03	3	315	0.6	5	3.81	1.9	57	19	24	2649	6.51	1.39	11	24	0.90	1125	2	0.10	7	0.08	31	38	0.03	135	427
123	70450 S	840	3.6	3.54	7	265	0.5	5	3.30	0.4	53	17	15	2448	8.08	1.44	11	14	0.54	1077	1	0.09	4	0.08	6	31	0.04	128	294
124	70451 S	630	3.2	3.56	8	256	0.5	5	4.10	0.2	55	18	14	1574	7.14	1.45	10	14	0.49	1143	2	0.09	4	0.07	12	30	0.03	113	204
125	70452 S	1200	6.4	3.59	4	380	0.6	6	3.84	0.5	56	19	19	1167	5.35	1.55	10	11	0.90	1355	2	0.10	9	0.07	34	37	0.03	114	159
126	70453 S	810	6.0	2.76	7	317	0.5	6	2.76	0.8	53	17	24	2740	5.84	1.09	10	13	0.76	958	3	0.08	7	0.07	40	28	0.02	98	236
127	70454 S	630	3.2	3.14	2	317	0.5	5	2.95	0.4	51	14	20	1946	5.78	1.26	10	13	0.85	1105	2	0.08	7	0.07	13	30	0.03	108	191
128	70455 S	1500	3.6	3.18	6	219	0.5	9	3.14	0.2	52	18	22	2451	8.35	1.03	11	22	0.95	1140	1	0.07	6	0.09	13	30	0.03	136	227
129	70456 S	1200	2.8	2.72	2	156	0.4	8	2.34	0.2	44	19	34	2293	11.10	0.86	10	20	0.76	1040	1	0.05	6	0.06	6	22	0.02	133	169
130	70458 S	1600	4.0	3.00	9	286	0.5	5	3.24	0.2	51	21	36	2402	4.81	1.34	9	10	0.38	988	3	0.05	8	0.05	5	27	0.02	76	87
131	70459 S	2400	4.8	4.00	2	419	0.9	5	2.95	0.2	57	27	39	2265	4.52	1.75	14	15	0.46	865	4	0.06	10	0.05	15	34	0.02	81	78

T.	SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn	9303-010
9.	No.	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	Pg. 4 of 4
2	70460 S	1700	3.6	4.83	2	563	0.7	5	3.37	0.2	59	23	25	1540	5.73	2.20	13	12	0.50	1031	4	0.07	9	0.08	12	37	0.04	84	74	
3	70461 S	8200	6.8	2.83	2	236	0.5	6	3.04	0.2	48	24	35	2757	9.90	1.05	11	16	0.71	1162	3	0.06	6	0.04	15	35	0.02	91	153	
4	70462	3400	4.0	1.52	2	117	0.3	5	1.17	0.2	29	20	54	4646	13.63	0.47	8	13	0.56	794	1	0.06	1	0.04	2	14	0.02	120	159	
5	70463	4100	6.0	0.82	2	81	0.3	5	0.67	0.2	14	18	73	6161	15.61	0.25	7	8	0.32	534	1	0.05	3	0.03	2	10	0.02	128	107	
6	70464	80	0.8	1.71	2	229	0.3	5	1.12	0.2	26	10	60	1792	8.80	0.71	8	8	0.44	560	2	0.07	3	0.04	2	17	0.03	122	95	
7	70465	2000	2.0	2.98	2	393	0.5	5	1.79	0.2	35	14	51	872	6.07	1.33	7	8	0.54	665	2	0.07	5	0.04	10	26	0.02	110	104	
8	70466	1500	3.6	3.66	2	540	0.7	5	1.86	8.5	43	12	37	569	4.62	1.53	10	12	0.62	587	2	0.07	6	0.06	117	26	0.02	101	786	
9	70467	220	0.2	2.84	3	583	0.5	5	1.78	0.5	47	10	36	250	3.77	0.97	12	19	0.79	497	1	0.08	7	0.08	20	32	0.02	70	147	
0	70468	260	0.2	3.95	2	777	0.6	5	1.88	0.2	54	11	29	241	3.68	1.55	13	18	0.81	586	3	0.08	7	0.08	9	29	0.03	80	106	
1	70469	60	0.2	4.13	2	526	0.8	5	2.08	0.3	54	13	29	235	3.24	1.41	14	25	0.89	633	4	0.09	8	0.08	2	34	0.04	73	148	
2	70470	60	0.2	5.35	2	612	0.6	5	2.51	0.2	55	11	19	308	3.32	2.08	12	21	0.91	852	1	0.10	7	0.09	2	31	0.05	73	119	
3	70471	250	0.8	4.69	2	574	0.6	5	2.84	0.2	55	12	16	757	3.25	2.21	11	7	0.60	719	2	0.08	7	0.08	7	30	0.05	67	100	
4	70472	110	0.2	4.87	2	429	0.8	9	5.26	0.2	64	15	53	214	4.66	1.82	11	25	1.89	1413	2	0.08	26	0.09	3	56	0.05	123	159	
5	70473	2400	6.0	4.31	2	418	0.7	9	4.22	0.3	57	19	104	7498	6.93	1.43	13	29	2.29	1434	2	0.06	35	0.10	2	52	0.04	139	198	
6	70474	280	1.6	4.59	2	701	0.7	5	2.88	0.2	55	13	15	392	4.38	2.19	12	8	0.92	928	3	0.08	9	0.09	7	38	0.05	88	83	
7	70475	120	0.8	3.94	2	667	0.6	5	2.21	0.2	49	9	20	290	3.65	1.76	11	11	0.82	646	2	0.08	9	0.08	2	31	0.04	72	95	
8	70476	50	0.2	4.08	2	876	0.5	5	2.01	0.2	52	10	18	145	3.18	1.92	11	8	0.64	486	1	0.08	8	0.08	2	25	0.05	65	78	
1	70477	190	1.2	3.89	2	776	0.9	5	1.98	0.2	57	16	23	357	3.47	1.79	16	12	0.59	522	6	0.08	6	0.08	9	23	0.05	75	81	
2	70478	310	2.8	3.68	2	545	0.7	5	1.73	0.2	41	10	22	771	5.37	1.75	11	7	0.55	482	4	0.08	4	0.07	3	25	0.06	91	78	
3	70479	140	1.2	4.02	5	667	0.6	5	1.61	0.2	42	13	27	219	6.05	1.81	11	8	0.46	359	2	0.09	2	0.09	2	22	0.05	79	68	
4	70503	110	2.4	3.81	3	226	0.4	5	3.56	0.4	63	23	68	2352	5.25	0.69	16	17	2.33	954	3	0.07	33	0.09	4	57	0.10	152	133	
5	70504	150	2.8	4.44	4	525	0.4	6	1.76	0.2	55	14	16	3138	4.93	1.27	15	14	1.19	673	2	0.08	5	0.10	3	95	0.28	169	138	
6	70505	200	3.2	3.70	2	438	0.4	5	1.73	0.6	50	13	15	2822	4.79	1.08	13	12	0.99	612	3	0.07	4	0.09	2	87	0.27	154	146	
7	70506	180	1.6	3.74	2	519	0.4	5	1.68	0.2	51	12	16	1907	4.66	1.22	13	9	0.84	520	3	0.07	4	0.09	3	88	0.26	138	114	
8	70508	480	4.0	4.39	12	522	0.4	5	1.31	0.2	42	28	20	1810	6.19	1.95	12	7	0.55	533	7	0.06	5	0.07	2	41	0.17	111	60	
9	70509	300	2.4	3.90	7	409	0.4	5	2.50	0.2	62	12	22	2167	4.92	1.30	14	11	1.08	994	66	0.07	5	0.08	2	63	0.21	128	99	
0	70510	200	2.0	3.77	2	806	0.4	5	1.14	0.2	44	9	21	1180	2.99	1.76	11	7	0.60	379	9	0.06	4	0.08	2	23	0.12	128	42	
1	70511	120	1.6	2.97	2	628	0.3	5	0.86	0.2	32	10	18	951	3.78	1.12	10	8	0.79	435	4	0.07	5	0.08	2	36	0.19	136	70	
2	70512	210	1.2	3.31	2	576	0.3	5	1.06	0.2	40	13	16	2005	4.35	1.23	12	9	0.82	435	4	0.07	7	0.08	2	69	0.23	139	73	
3	70513	190	1.2	3.73	2	560	0.3	5	1.23	0.2	44	12	14	1692	4.91	1.28	13	10	0.98	626	3	0.07	7	0.08	2	87	0.24	136	76	
4	70514	240	2.4	4.00	4	720	0.4	6	1.44	0.2	49	15	14	2465	4.90	1.30	15	11	1.14	645	4	0.09	7	0.09	2	127	0.28	164	79	
5	70515	320	2.4	3.72	3	696	0.4	5	1.13	0.2	46	14	15	3185	4.59	1.40	12	9	0.98	446	4	0.09	7	0.08	2	91	0.26	150	76	

NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL – 148 Geol.: G.G Date received: MAR. 04 LAB CODE: 9303–011
Material: 33 RC (LARGE SAMPLES) Sheet: 1 of 1 Date completed: MAR. 15
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
1	70311	130	1.4	4.11	2	321	0.4	5	1.45	0.5	42	16	18	708	4.39	1.08	11	17	1.38	335	3	0.10	6	0.07	8	42	0.06	143	55
4	70312	100	0.4	4.22	2	307	0.4	5	1.51	0.2	47	25	21	1016	4.82	0.95	14	17	1.62	327	5	0.10	7	0.07	4	88	0.12	160	53
5	70313	70	0.2	4.14	2	320	0.3	5	1.56	0.2	46	27	14	715	4.92	0.93	13	15	1.52	363	7	0.09	7	0.07	2	99	0.14	156	52
6	70314	110	0.2	3.99	2	269	0.3	5	1.69	0.2	50	20	16	1285	5.27	0.68	14	16	1.55	310	4	0.10	8	0.08	2	122	0.11	171	51
7	70315	200	0.2	3.98	2	324	0.3	5	1.36	0.2	42	21	16	1156	5.77	0.87	14	15	1.42	296	4	0.10	7	0.07	2	88	0.09	161	51
8	70316	140	0.4	3.79	2	294	0.3	5	1.36	0.3	46	26	14	1291	5.48	0.80	13	15	1.40	213	9	0.09	7	0.07	2	95	0.08	169	44
9	70317	60	0.2	3.89	2	426	0.3	5	1.25	0.2	43	20	13	893	3.74	1.12	12	15	1.44	164	7	0.11	7	0.07	2	41	0.07	162	35
10	70318	60	0.2	3.86	7	294	0.3	5	1.35	0.2	42	19	17	765	4.31	0.82	11	16	1.54	264	5	0.10	7	0.08	2	91	0.09	138	44
11	70319	100	0.4	5.03	2	371	0.4	5	1.39	0.2	39	20	9	1125	4.31	1.46	12	15	1.58	324	3	0.10	7	0.09	2	71	0.12	139	54
12	70320	110	0.4	5.10	4	337	0.4	5	1.72	0.2	41	18	13	1176	4.64	1.31	13	15	1.63	323	5	0.10	7	0.09	2	108	0.12	148	60
13	70321	150	0.8	4.56	2	282	0.3	5	0.93	0.2	30	14	11	915	4.24	1.31	9	14	1.66	272	3	0.10	8	0.07	2	45	0.13	163	47
14	70322	90	0.4	6.20	2	394	0.5	5	2.15	0.2	50	19	14	835	5.54	1.83	13	17	1.82	540	2	0.10	11	0.09	2	82	0.25	205	62
15	70323	100	0.4	5.41	2	382	0.4	5	2.20	0.2	51	21	8	1301	5.76	1.51	13	17	2.04	661	11	0.09	6	0.10	2	90	0.31	207	71
16	70324	80	0.2	4.42	2	349	0.4	5	1.75	0.2	44	30	11	1016	5.64	1.41	11	14	1.57	489	34	0.10	8	0.09	2	48	0.12	149	59
17	70325	180	0.8	5.07	2	317	0.4	5	1.20	0.2	37	33	10	2062	5.27	1.55	11	18	1.65	371	8	0.11	8	0.08	4	33	0.09	154	46
18	70326	130	0.2	5.38	2	271	0.3	5	1.05	0.2	39	26	12	1574	5.91	1.39	13	20	2.19	333	5	0.11	9	0.08	2	52	0.23	197	45
19	70327	210	0.4	5.46	2	297	0.4	5	1.29	0.2	44	33	11	2442	6.26	1.51	13	17	2.01	407	7	0.09	7	0.08	4	68	0.24	160	49
20	70328	130	0.8	5.17	3	273	0.4	5	0.93	0.2	38	25	12	1910	4.35	1.56	12	17	2.19	314	7	0.10	8	0.08	2	31	0.15	179	45
21	70329	100	0.8	5.54	4	346	0.6	5	1.43	0.2	36	30	11	1623	4.81	1.86	13	17	1.99	446	5	0.09	8	0.08	2	27	0.15	175	62
22	70330	4000	8.8	4.85	2	816	0.7	5	1.54	0.5	34	38	13	1767	6.10	1.73	11	14	1.84	475	21	0.10	9	0.09	2	20	0.13	200	76
23	70331	1700	6.4	5.55	4	459	0.7	5	2.20	3.3	45	39	13	1769	6.42	2.06	13	15	1.70	458	25	0.10	9	0.08	129	36	0.10	189	101
24	70332	240	0.4	5.95	2	421	0.4	5	1.44	0.2	42	32	10	1891	7.28	1.68	16	20	2.14	457	10	0.10	10	0.09	2	56	0.13	195	65
25	70333	420	0.8	4.70	3	423	0.4	5	1.39	0.2	45	27	15	1693	6.99	1.36	15	17	1.73	310	8	0.11	9	0.08	6	43	0.11	182	54
26	70334	360	0.4	3.94	2	404	0.4	5	1.27	0.2	38	32	14	1279	6.27	1.15	14	16	1.53	295	9	0.09	8	0.07	4	25	0.06	149	44
27	70335	360	1.2	3.95	2	348	0.4	5	1.28	0.2	37	29	12	1559	7.32	1.12	12	17	1.51	312	6	0.10	6	0.08	2	26	0.06	150	56
28	70336	220	2.0	3.96	2	398	0.5	5	1.51	0.2	47	19	13	1435	5.61	1.38	13	13	1.20	347	5	0.11	5	0.09	3	29	0.06	121	60
29	70337	60	0.2	4.25	2	797	0.8	5	3.14	0.2	81	12	10	255	4.26	1.46	23	13	1.06	928	2	0.09	6	0.14	5	197	0.13	108	74
30	70338	170	0.4	3.75	2	774	0.6	5	1.82	0.2	62	21	16	668	4.81	1.24	18	12	0.98	670	2	0.10	8	0.11	4	149	0.15	117	65
31	70339	210	0.4	4.15	2	575	0.4	5	0.91	0.2	33	28	11	808	5.21	1.29	11	13	1.35	483	5	0.10	6	0.09	2	86	0.16	115	76
32	70340	140	0.8	5.13	2	516	0.4	5	1.22	0.2	37	23	7	992	6.16	1.49	10	17	1.61	441	7	0.09	8	0.08	5	106	0.11	163	66
33	70341	270	0.8	5.70	2	455	0.4	5	1.24	0.2	41	28	9	1827	6.59	1.65	13	19	1.78	388	3	0.10	10	0.09	3	61	0.08	175	55
34	70342	180	0.2	4.87	2	409	0.4	5	0.91	0.2	34	22	8	1210	4.95	1.49	10	17	1.47	255	3	0.11	6	0.07	2	36	0.07	159	41
35	70343	110	0.4	5.03	2	422	0.4	5	1.03	0.2	38	28	8	1233	5.63	1.41	11	19	1.72	393	4	0.11	9	0.09	2	34	0.07	171	54

for G.P/S.

NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: KLIYUL – 148 Geol.: G.G Date received: FEB. 26 LAB CODE: 9303–001
Material: SMALL 55 RC Sheet: 1 of 2 Date completed: MAR. 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.

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
KL–93–1	4 – 6	5	0.2	5.35	6	318	0.5	5	3.22	0.2	63	24	62	122	6.17	0.65	12	24	2.33	1198	2	0.15	39	0.09	2	167	0.33	219	86
	8 – 10	5	0.2	6.47	4	801	0.6	6	2.64	0.2	63	12	13	145	4.08	2.05	15	12	1.32	1254	2	0.09	9	0.10	2	160	0.33	147	93
	12 – 14	5	0.2	4.50	2	1291	1.0	5	3.44	0.2	84	12	27	50	4.32	1.50	26	12	1.50	938	1	0.09	22	0.13	7	358	0.37	141	76
	16 – 18	5	0.2	4.21	2	869	0.9	5	3.74	0.2	80	14	31	159	4.30	0.93	22	12	1.51	963	1	0.10	21	0.13	6	417	0.27	137	78
	20 – 22	190	0.2	7.42	2	745	0.6	6	2.20	0.2	64	16	11	1899	5.11	2.26	14	13	1.50	531	1	0.11	5	0.11	3	159	0.26	137	51
	24 – 26	50	0.2	5.39	2	443	0.4	5	1.58	0.2	64	19	15	860	4.81	1.54	17	12	1.23	301	3	0.11	3	0.11	2	110	0.12	104	35
	28 – 30	70	0.2	5.41	2	402	0.4	7	1.47	0.2	60	17	14	900	4.85	1.61	16	12	1.14	315	3	0.11	4	0.11	2	94	0.10	105	31
	32 – 34	100	0.2	4.72	2	348	0.4	5	1.78	0.2	61	15	14	736	5.34	1.15	15	12	1.04	353	1	0.09	5	0.11	2	116	0.06	104	38
	36 – 38	150	0.2	6.49	2	292	0.5	9	2.69	0.3	61	28	12	2056	5.66	1.25	15	21	2.21	801	5	0.12	9	0.08	4	137	0.16	186	71
	40 – 42	130	0.2	6.63	2	381	0.5	7	2.82	0.4	60	27	22	1415	5.12	1.66	13	19	2.39	627	3	0.13	18	0.08	4	75	0.08	175	62
	44 – 46	60	0.2	6.48	2	312	0.4	8	4.03	0.2	65	25	10	1162	5.77	0.93	15	18	2.12	635	3	0.12	10	0.08	3	196	0.21	199	55
	48 – 50	140	0.2	6.28	2	268	0.4	6	2.93	0.4	61	21	18	1758	5.95	0.87	14	19	2.35	475	2	0.11	14	0.09	3	190	0.20	207	52
	52 – 54	120	0.2	7.46	3	590	0.5	9	2.66	0.6	61	31	13	1535	5.96	1.74	15	16	2.21	653	5	0.12	13	0.09	2	157	0.26	189	56
	56 – 58	60	0.2	6.79	2	330	0.5	5	1.73	0.2	52	33	26	927	7.19	1.28	12	22	2.93	675	7	0.10	18	0.08	2	80	0.13	209	65
	60 – 62	30	0.2	6.13	2	348	0.4	9	1.69	0.3	54	30	14	911	5.42	1.40	14	17	2.19	515	14	0.12	11	0.09	3	107	0.13	182	48
	64 – 66	40	0.2	5.41	3	381	0.4	5	1.81	0.4	57	34	17	701	5.44	1.25	14	14	1.66	540	7	0.11	12	0.08	2	130	0.14	175	50
	68 – 70	60	0.2	5.64	2	298	0.4	8	1.45	0.3	54	48	14	1583	6.10	1.18	13	15	2.06	502	19	0.11	12	0.08	2	111	0.18	268	50
	72 – 74	120	0.2	5.89	2	326	0.4	5	2.27	0.4	58	32	16	1734	4.75	1.42	14	14	1.75	520	8	0.15	11	0.07	3	123	0.18	179	49
	76 – 78	80	0.2	4.14	2	279	0.3	5	1.58	0.2	52	13	19	773	3.21	1.02	12	11	1.14	373	3	0.11	8	0.06	2	107	0.12	127	34
	80 – 82	120	0.2	5.08	2	234	0.4	5	3.00	0.2	65	22	13	1848	4.95	0.63	14	14	1.61	451	6	0.10	6	0.09	2	221	0.26	181	49
KL–93–1	84 – 86	300	0.2	3.58	3	337	0.4	5	2.47	0.2	57	21	20	1393	5.49	0.93	13	12	1.49	488	217	0.10	4	0.07	2	58	0.15	154	58
KL–93–2	6 – 8	150	0.2	5.63	2	661	0.6	5	1.40	0.2	58	16	23	1281	4.69	1.65	14	19	1.75	701	9	0.12	15	0.11	14	166	0.33	187	73
	10 – 12	230	0.2	5.84	2	304	0.4	5	0.88	0.3	48	16	9	3579	5.92	1.51	12	24	2.04	369	2	0.10	5	0.09	2	66	0.30	168	44
	14 – 16	300	1.4	6.28	2	386	0.6	8	1.10	0.4	53	17	9	4780	5.15	1.97	13	20	1.57	519	4	0.10	5	0.10	5	92	0.19	164	52
	18 – 20	180	0.2	4.86	2	329	0.4	7	1.26	0.2	54	18	13	2774	4.64	1.23	14	18	1.48	286	2	0.10	6	0.11	4	128	0.20	156	38
	22 – 24	670	0.2	4.93	4	338	0.4	5	1.93	0.2	69	13	15	3753	5.70	1.09	18	18	1.42	541	2	0.09	5	0.10	2	193	0.22	175	52
	26 – 28	250	0.4	4.32	3	378	0.4	8	1.18	0.3	55	14	16	3044	6.02	1.13	13	16	1.32	364	4	0.08	3	0.11	2	126	0.19	172	49
	30 – 32	160	0.4	4.46	8	493	0.6	11	2.35	0.8	78	14	15	1848	5.24	1.27	20	17	1.32	729	18	0.10	6	0.13	8	146	0.11	154	74
	32 – 34	220	0.2	4.71	2	494	0.5	5	1.91	0.3	58	19	16	956	4.82	1.26	15	18	1.42	557	8	0.11	7	0.09	29	93	0.09	157	70
	34 – 36	110	0.2	4.21	2	328	0.4	5	1.40	1.2	49	17	15	766	4.60	1.06	12	17	1.40	342	7	0.11	5	0.07	6	45	0.07	147	56
	36 – 38	80	0.2	4.27	2	308	0.4	5	1.55	0.2	54	25	15	1068	4.77	0.93	13	17	1.62	317	7	0.09	6	0.07	4	88	0.11	158	48
	38 – 40	40	0.2	4.39	2	351	0.3	5	1.51	0.2	52	34	17	667	4.95	1.06	14	15	1.52	358	8	0.10	7	0.07	4	87	0.13	156	51
	40 – 42	110	0.2	4.26	2	301	0.3	5	1.66	0.2	57	28	14	1468	5.33	0.77	14	17	1.62	330	7	0.11	7	0.08	2	123	0.12	168	55
	42 – 44	70	0.2	4.08	2	320	0.3	5	1.28	0.2	53	27	18	1012	5.91	0.88	13	16	1.51	277	6	0.11	6	0.07	2	84	0.09	165	47
KL–93–2	44 – 46	80	0.2	4.23	2	327	0.3	5	1.45	0.2	55	29	16	1286	6.00	0.89	14	16	1.54	234	9	0.12	6	0.08	2	101	0.09	183	43

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	KL-93-2	46 – 48	60	0.2	4.63	2	491	0.4	5	1.54	0.2	51	26	18	1167	4.62	1.27	13	16	1.57	192	12	0.14	6	0.08	2	61	0.09	186	37
39		48 – 50	30	0.2	4.26	2	340	0.3	6	1.43	0.2	50	24	18	897	4.49	0.92	13	16	1.60	270	10	0.12	6	0.08	2	94	0.09	150	45
40		50 – 52	60	0.2	5.10	2	380	0.4	5	1.29	0.2	45	19	19	935	3.99	1.51	11	15	1.58	310	7	0.11	6	0.09	4	60	0.11	132	46
41		52 – 54	100	0.2	5.21	2	352	0.4	5	1.51	0.2	52	17	16	885	4.72	1.34	15	17	1.62	335	4	0.11	8	0.09	4	97	0.13	155	59
42		54 – 56	150	0.2	5.12	2	313	0.4	5	1.06	0.4	47	17	14	945	4.79	1.48	11	16	1.76	292	5	0.12	6	0.07	4	48	0.15	177	44
43		56 – 58	70	0.2	6.39	7	331	0.5	5	2.81	0.4	62	24	19	783	5.98	1.58	14	20	2.11	658	3	0.09	14	0.09	3	103	0.29	233	62
44		58 – 60	90	0.2	5.45	7	380	0.4	5	2.09	0.3	62	26	38	1352	5.85	1.55	14	17	1.95	622	9	0.11	8	0.10	5	83	0.30	208	74
45		60 – 62	50	0.2	4.22	7	312	0.4	5	1.75	0.2	58	31	16	987	5.20	1.28	13	15	1.54	481	29	0.10	7	0.09	6	51	0.13	149	53
46		62 – 64	170	0.8	5.05	2	307	0.4	5	1.05	0.5	52	37	13	2278	4.99	1.51	14	18	1.64	354	10	0.12	9	0.08	6	31	0.09	155	45
47		64 – 66	120	0.2	5.20	3	257	0.3	5	1.03	0.4	48	24	13	1390	5.61	1.32	13	20	2.05	325	4	0.12	8	0.08	2	48	0.19	198	40
48		66 – 68	240	0.2	5.06	5	278	0.3	5	1.17	0.2	53	40	13	2508	5.64	1.41	14	16	1.79	352	10	0.09	8	0.06	4	60	0.20	141	39
51		68 – 70	180	0.2	5.23	2	288	0.4	5	0.87	0.2	48	36	14	1943	4.42	1.60	13	16	2.01	288	6	0.11	9	0.07	4	34	0.16	160	38
52		70 – 72	280	0.4	5.06	2	268	0.4	5	1.29	0.3	48	31	12	1761	4.45	1.52	11	16	2.02	399	7	0.11	9	0.07	4	26	0.13	168	49
53		72 – 74	5800	12.4	4.99	2	800	0.6	5	1.44	0.5	50	40	14	1658	6.34	1.60	12	15	2.08	552	38	0.12	9	0.08	3	24	0.17	180	67
54		74 – 76	1200	6.0	5.52	2	384	0.6	5	1.97	4.2	55	31	12	1563	5.44	1.94	12	15	1.79	451	24	0.11	10	0.07	93	34	0.11	181	108
55		76 – 78	250	0.2	5.51	2	396	0.4	5	1.30	0.2	54	25	10	1443	6.12	1.58	14	18	1.92	407	12	0.11	9	0.08	2	49	0.12	175	51
56		78 – 80	270	0.2	3.68	2	364	0.3	5	1.08	0.2	49	24	15	1568	6.08	1.07	12	13	1.31	225	8	0.12	8	0.06	4	31	0.09	152	39
57		80 – 82	280	0.4	4.17	2	437	0.4	5	1.21	0.2	53	30	15	1237	5.79	1.23	14	16	1.55	288	11	0.12	9	0.07	3	25	0.07	151	43
58		82 – 84	310	0.2	4.04	2	300	0.4	5	1.13	0.2	53	25	12	1447	7.66	1.09	12	17	1.56	321	4	0.10	7	0.08	2	24	0.06	159	56
59	KL-93-2	84 – 86	170	0.8	3.90	3	385	0.5	5	1.50	0.3	54	20	14	1110	4.99	1.27	13	13	1.26	367	6	0.11	6	0.09	5	32	0.06	117	58

APPENDIX V

STATEMENT OF COSTS

NORANDA EXPLORATION COMPANY, LIMITED
STATEMENT OF COSTS

PROJECT: KLIYUL DATE: MARCH, 1993

TYPE OF REPORT: DRILLING

a) Wages:
No. of Mandays : 77
Rate per Manday: $219.11
Dates From : February 1 - March 9, 1993
Total Wages : 77 x $219.11 $ 16,871.47

b) Food & Accommodations:
No. of Mandays : 77
Rate per Manday: $53.43
Dates From : February 1 - March 9, 1993
Total Costs : 77 x $53.43 $ 4,114.11

c) Transportation:
No. of Mandays : 77
Rate per Manday: $71.01
Dates From : February 1 - March 9, 1993
Total Costs : 77 x $71.01 $ 5,467.77

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: 254 samples x $13.80 (See attached schedule)	$ 3,505.20
f)	Cost of preparation of Report:	
	Author : 2 mandays x $247/manday	$ 494.00
	Drafting: 1 manday x $247/manday	$ 247.00
	Typing : 1 manday x $120/manday	$ 120.00
g)	Other:	
	Contractor:	
	<u>Pacific Western Helicopters Ltd.</u>:	
	13.9 hrs x $750/hr including fuel and oil	$ 10,425.00
	<u>Midnight Sun Drilling Ltd.</u>:	
	560 meters of reverse circulation drilling at $112.21/meter	$ 62,837.29
	<u>Payco Contracting Ltd.</u>:	
	65 hours of cat time at $110/hour and 18 hours of Lowbed hauling at $100/hour.	$ 8,950.00
	<u>Tenaki Enterprises Ltd.</u>:	
	56 hours of cat time at $135/hour	$ 7,560.00
	<u>Sonic Concrete & Aggregate Ltd.</u>:	
	32 hours of Lowbed hauling at $100/hour	$ 3,200.00
	TOTAL COST	**$123,791.84**
h)	Unit Costs for Drilling	
	No. of Mandays: 77	
	No. of Units : 560 meters	
	Unit Costs : $221.06/meter	
	Total Cost : 560 meters x $221.06	$123,791.84

NORANDA EXPLORATION COMPANY, LIMITED
(CORDILLERA DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: KLIYUL

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
ICP (30 Element) + Geochem Au	254	#13.80/sample	$3,505.20

APPENDIX VI

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS
****

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

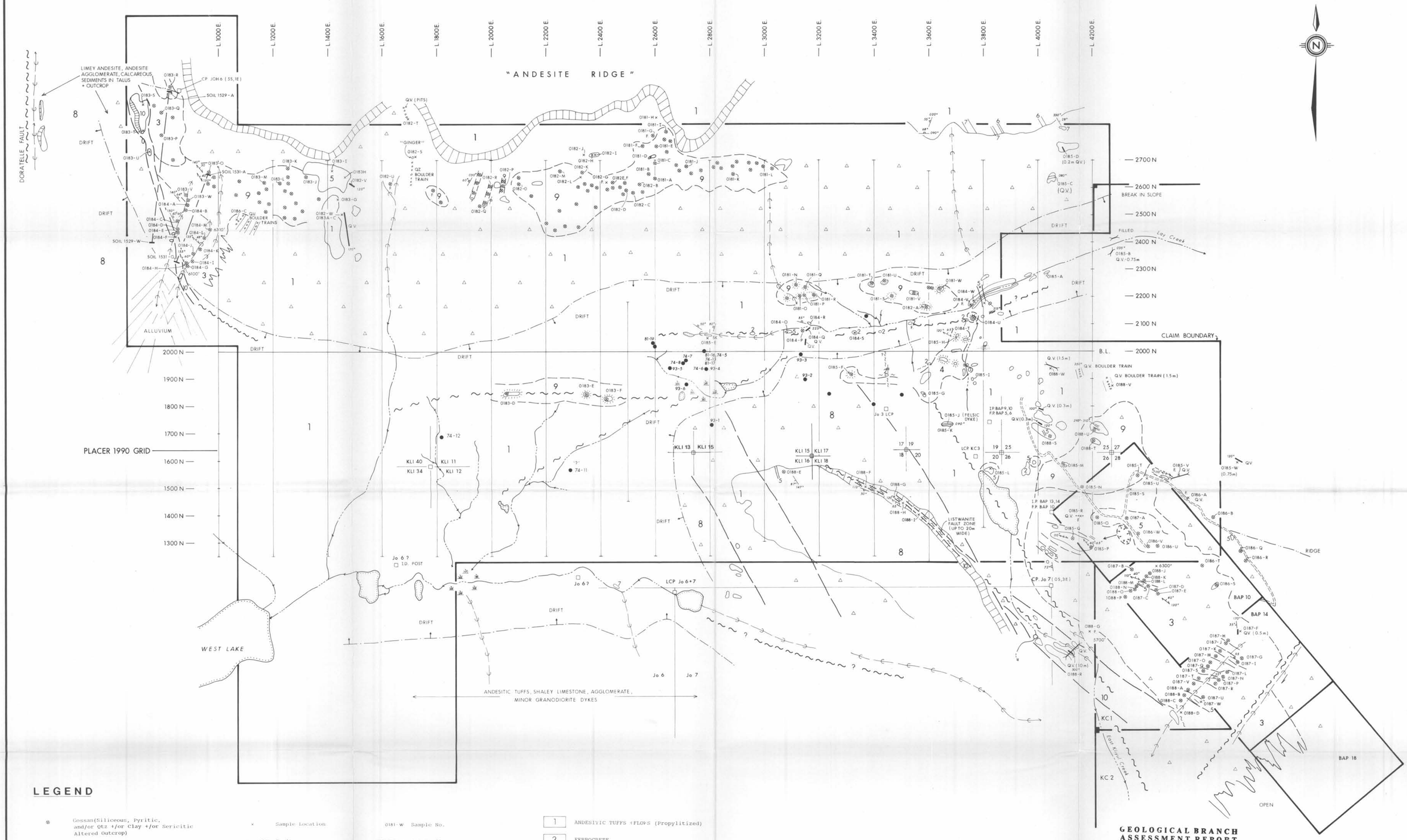
I am a geologist residing at 5442 - 7th Avenue, Delta, B.C.

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, 1979 and a permanent employee since November, 1987.

D. Graham Gill



LEGEND

- Gossan (Siliceous, Pyritic, and/or Qtz +/or Clay +/or Sericitic Altered Outcrop)
- F — Float
- Post
- Creek
- Gulley
- Swamp
- Lake / Pond
- Cliff
- DDH PAD
- Sample Location
- Fault
- Fault Orientation
- Fracture
- Bedding
- Foliation
- Hummock (Subcrop)
- Quartz Vein
- Outcrop
- SK — Skarn
- 0181-W — Sample No.
- Cat Trail
- Talus
- Scree
- Depression
- Noranda Soil Line (25m Sample Interval)
- Cliff / Bluff

1. ANDESITIC TUFFS + FLOWS (Propylitized)
2. FERROCRETE
3. QTZ - SERICITE - CLAY - PYRITE ALTN.
4. MAINLY SERICITE ALTN.
5. DIORITE, QTZ DIORITE, GABBRO
6. LIMESTONE
7. BLACK, PYRITIC SHALES, ARGILLITES LOCALLY CALCAREOUS
8. CALCAREOUS ANDESITE TUFF / AGGLOMERATE
9. MODERATE - INTENSE PYRITE/SILICA ALTERATION
10. LISTWANITE

SCALE 1:5,000

Metres 100 50 0 100 200 300 400 Metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

REVISED	KLIYUL
	GEOLOGY
PROJ. No.	SURVEY BY: G.G. DATE: SEPT /1992
N.T.S.	DRAWN BY: J Serwin SCALE: 1:5,000
DWG. No. 13	NORANDA EXPLORATION
	OFFICE: VANCOUVER

2200N
2100N
2000N
1900N
1800N
1700N

2500E
2600E
2700E
2800E
2900E
3000E
3100E
3200E
3300E

KL81-19
KL81-18
KL81-17
KL74-13
KL74-6
KL81-16
KL74-5
KL74-8
KL74-7
KL93-5
KL93-4
KL93-3
KL93-2
KL93-6
KL74-14
KL74-4
KL93-1

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

KLIYUL

DRILL HOLE LOCATION

Cu 1cm = 0.25%

SCALE: 1/1000

14

DATE: FEB/92

NORANDA EXPLORATION COMPANY LIMITED (NPL)

2500E 2600E 2700E 2800E 2900E 3000E 3100E 3200E 3300E

2200N

2100N

2000N

1900N

1800N

1700N

KL81-19

KL81-18

KL74-13
KL74-6
KL81-17
KL81-16
KL74-5

KL74-8
KL74-7

KL93-5

KL93-4

KL93-3

KL93-2

KL93-6

KL74-14
KL74-3

KL93-1

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

KLIYUL

DRILL HOLE LOCATION

Au 1cm = 1gmt

15

SCALE 1/1000

DATE FEB/92

NORANDA EXPLORATION COMPANY LIMITED (NPL)

1850N 1900N 1950N 2000N 2050N 2100N 2150N

1775 1750 1700 1650 1600

KL93-5
Overburden
Calcareous Sediments
Limestone Breccia
Calcareous Sediments
Skarn/Sediments
Magnetite Skarn
Altered Andesite
185.00 m. KL93-5

KL74-7
Overburden
Andesite
Mt Skarn
Phyllite
Mt Skarn
Phyllite
Andesite
Phyllite
Andesite Tuff
Tuff
Andes/Dac Ash Tuff
Gabbro
107.29 m. KL74-7
Xtal/Lithic Tuff
Andesite Feld Ppy
Andesite
Andesite Xtal Tuff
Andesite Tuff
Andesite Tuff
Fault
Andesite Tuff
Xtal Tuff
Andesite Tuff
Andesite Feld Ppy
Andesite Tuff
163.46 m. KL81-16

KL74-13
KL74-6
KL74-5
KL81-17
KL81-16
Overburden
Andesite Feld Ppy
Andesite, 3-Xtal Tuff
Andesite
Andesite
Phyllite
Andesite/Dacite
Andesite Feld Ppy
Andesite
78.94 m. KL74-5
Andesite Tuff
Andesite Feld Ppy
Andesite
Phyllite
Andesite
Andesite Tuff
Phyllite
Andesite Tuff
Tuff
Andesite Feld Ppy
Andesite
Andesite Xtal Tuff
Andesite Tuff
Andesite Tuff
Andesite Tuff
Fault
Andesite Tuff
Xtal Tuff
Andesite Tuff
Andesite Feld Ppy
Andesite Tuff

Overburden
Andesite
Andesite
Andesite Feld Ppy
Altered Andesite
Mt Skarn
Andesite Feld Ppy
Andesite dyke
Andesite
Mt Skarn
Tuff
Andesite
Andesite Tuff
Andesite
Diorite ?
Andesite Feld Ppy
Andes/Diorite Feld Ppy
54.46 m. KL81-17
68.58 m. KL74-13
Tuff
Andesite
88.26 m. KL74-6

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

KLIYUL PROPERTY

SECTION 1840N (LOOKING NW)

Cu 1cm = 0.25%

Scale 1:500 16 May 2, 1991

NORANDA EXPLORATION COMPANY LIMITED (NPL)

1850N 1900N 1950N 2000N 2050N 2100N 2150N

1775

1750

1700

1650

1600

KL93-5
Overburden
Calcareous Sediments
Limestone Breccia
Calcareous Sediments
Skarn/Sediments
Magnetite Skarn
Altered Andesite

KL74-7
Overburden
Andesite
Mt Skarn
Phyllite
Mt Skarn
Phyllite
Andesite
Phyllite
Andesite
Phyllite
Andesite Tuff
Skarn
Andesite Tuff
Tuff
Andes/Dac Ash Tuff
Gabbro
Xtal/Lithic Tuff
Andesite Feld Ppy
Andesite
Andesite Xtal Tuff
Andesite Tuff
Andesite Tuff
Fault
Andesite Tuff
Xtal Tuff
Andesite Tuff
Andesite Feld Ppy
Andesite Tuff

KL81-17
KL81-16
KL74-13
KL74-6
KL74-5
Overburden
Overburden
Overburden
Andesite
Andesite
Andesite Feld Ppy
Andesite Feld Ppy
Andesite
Andesite
Skarn
Altered Andesite
Mt Skarn
Andesite Feld Ppy
Andesite dyke
Andesite
Andesite
Mt Skarn
Tuff
Andesite
Andesite Tuff
Mt Skarn
Andesite/Dacite
Diorite ?
Andesite Feld Ppy
Andes/Diorite Feld Ppy
Andesite Feld Ppy
Andesite
Andesite Tuff
Andesite
Andesite
Tuff
Andesite

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

KLIYUL PROPERTY

SECTION 1840N (LOOKING NW)

Au 1cm = 0.5gmt

Scale 1:500 17 May 2, 1991

NORANDA EXPLORATION COMPANY LIMITED (NPL)

1750N 1800N 1850N 1900N 1950N 2000N 2050N

1775 1750 1700 1650 1600

KL92-1
Overburden
Andesite Tuff
Chl Andesite
Siliceous Andesite
Calcareous Sediments
Chl Andesite
Calcareous Seds - Chl And
Calcareous Sediments
9860 n
KL92-1

KL93-6
Overburden
Calcareous Sediments
Chl Andesite
Qtz-Ser Altered Zone
Chl Andesite
9580 n
KL93-6

KL93-4
Overburden
Andesite, 3-4% mt
Very Calcareous Sediments
Skarn/Sediments
Very Calcareous Sediments
Mt Skarn
Andesite
7694 n
KL74-6
Skarn/Sediments
9280 n
KL93-4

KL81-17
KL74-13
KL74-6
Overburden
Overburden
Andesite
Andesite Feld Ppy
Andesite
Altered Andesite
Andesite
Tuff
Andesite
Andesite
Andesite Tuff
Diorite ?
Andesite Feld Ppy
Andes/Diorite Feld Ppy
9460 n
KL81-17
8878 n
KL74-13

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

KLIYUL PROPERTY

SECTION 2780E
(LOOKING WEST)

Cu 1cm = 0.25%

Scale 1:500 18 May 2, 1991

NORANDA EXPLORATION COMPANY LIMITED (NPL)

1750N 1800N 1850N 1900N 1950N 2000N 2050N

1775

1750

1700

1650

1600

KL93-1
Overburden
Andesite Tuff
Chl Andesite
Siliceous Andesite
Calcareous Sediments
Chl Andesite
Calcareous Seds - Chl And
Calcareous Sediments
9620 n.
KL93-1

KL93-6
Overburden
Calcareous Sediments
Chl Andesite
Qtz-Ser Altered Zone
Chl Andesite
8560 n.
KL93-6

KL93-4
Overburden
Andesite, 3-4% mt
Very Calcareous Sediments
Skarn/Sediments
Very Calcareous Sediments
Mt Skarn
Andesite
7824 n.
KL74-6
Skarn/Sediments
10560 n.
KL93-4

KL74-13
KL74-6
KL81-12
Overburden
Overburden
Overburden
Andesite
Andesite Feld Ppy
Andesite
Altered Andesite
Andesite Feld Ppy
Andesite
Tuff
Andesite
Andesite
Andesite Tuff
Diorite ?
Andesite Feld Ppy
Andes/Diorite Feld Ppy
6838 n.
KL74-13
5468 n.
KL81-17

1750N 1800N 1850N 1900N 1950N 2000N 2050N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

KLIYUL PROPERTY

SECTION 2780E

(LOOKING WEST)

Au 1cm = 0.5gmt

Scale 1:500 19 May 2, 1991

NORANDA EXPLORATION COMPANY LIMITED (NPL)

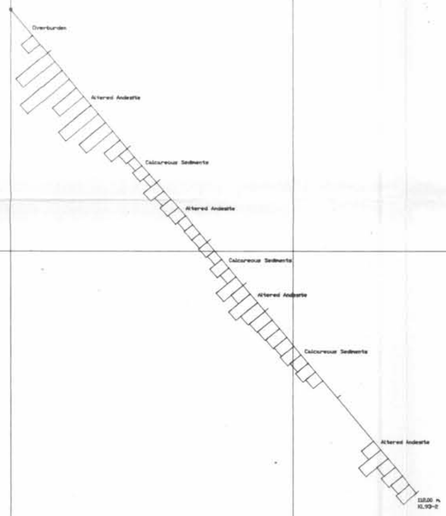
1800N 1850N 1900N 1950N 2000N 2050N 2100N 2150N

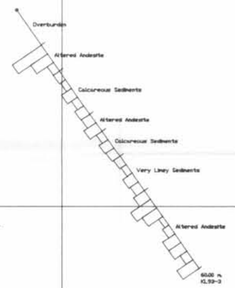
0E

1825

1800

1750





1700

1650

1600

1800N 1850N 1900N 1950N 2000N 2050N 2100N 2150N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

REVISED	KLIYUL
	SECTION 3150E (LOOKING WEST) Cu 1 cm.= 0.25%
PROJ.No. 148	SURVEY BY: G.G. DATE: SEPT./93
47 N. 94GD	DRAWN BY: G.G. SCALE: 1:500
DWG.No. 20	NORANDA EXPLORATION OFFICE: Vancouver

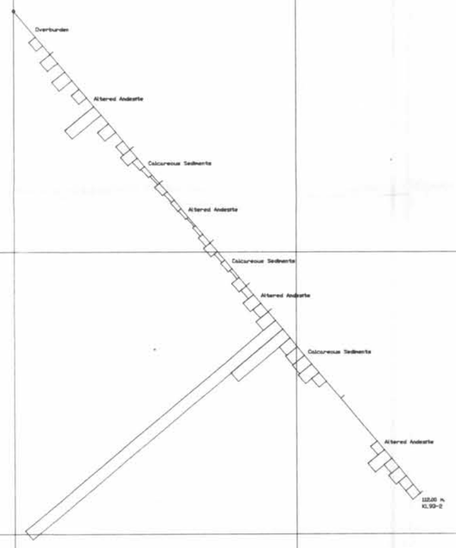
1850N 1875N 1900N 1925N 1950N 2000N 2025N 2050N 2075N 2100N 2125N 2150N

0E

1825

1800

1750



1700

1650

1600

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,033

REVISED	KLIYUL
	SECTION 3150E (LOOKING WEST) Au 1 cm.=0.5 gmt
PROJ.No. 148	SURVEY BY: G.G. DATED: SEPT./93
N.T.S. 94C/D	DRAWN BY: G.G. SCALE: 1:500
DWG.No. 21	NORANDA EXPLORATION OFFICE: Vancouver

1850N 1875N 1900N 1925N 1950N 2000N 2025N 2050N 2075N 2100N 2125N 2150N