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ASSESSMENT REPORT  
 ON  
 DIAMOND DRILLING THE L.H. GROUP  
 REX FR.  
 SLOCAN MINING DIVISION  
 82F/14W  
 Lat. 49°54' 53"30" Long. 117°20' 19"56"

9/88

16,665

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

Owner (s) : Andaurex Resources Incorporated, *Noranda Exploration Company, Limited*  
 Operator : Noranda Exploration Company, Limited (no personal liability)  
 Authors : J. Keating (Project Geologist)  
           D. Devin  
           I. Mitchell  
 Date : December 8, 1987

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 VANCOUVER, B.C.

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DRAWINGS

Drawing 1a: Location Map

Drawing 1b: Claim Map

Drawing 2 : Property Geology Map

Drawing 3 : Diamond Drilling Plan (1:1,000)

Drawing 4 : Drill Hole Section LH-86-6 (1:1,000)

1. INTRODUCTION

During the period August 20 - October 4, 1986 Noranda Exploration Company Limited (no personal liability) of 1050 Davie Street, Vancouver, B.C. drilled an N.Q. diamond drill hole (LH-86-6) totaling 284.45 metres on the L.H. property.

This hole, part of an 8 hole programme conducted during 1986, was drilled to test for the depth extension of the old L.H. workings. Poor ground conditions created drilling difficulties which prolonged the hole's completion date.

Two thousand dollars of drilling costs, incurred after October 1, 1986 for hole LH-86-6, are being applied for assessment credit on the Rex Fr. claim of the LH Group. Total drill contractor costs for hole LH-86-6 after September 30th. were \$4,236.50

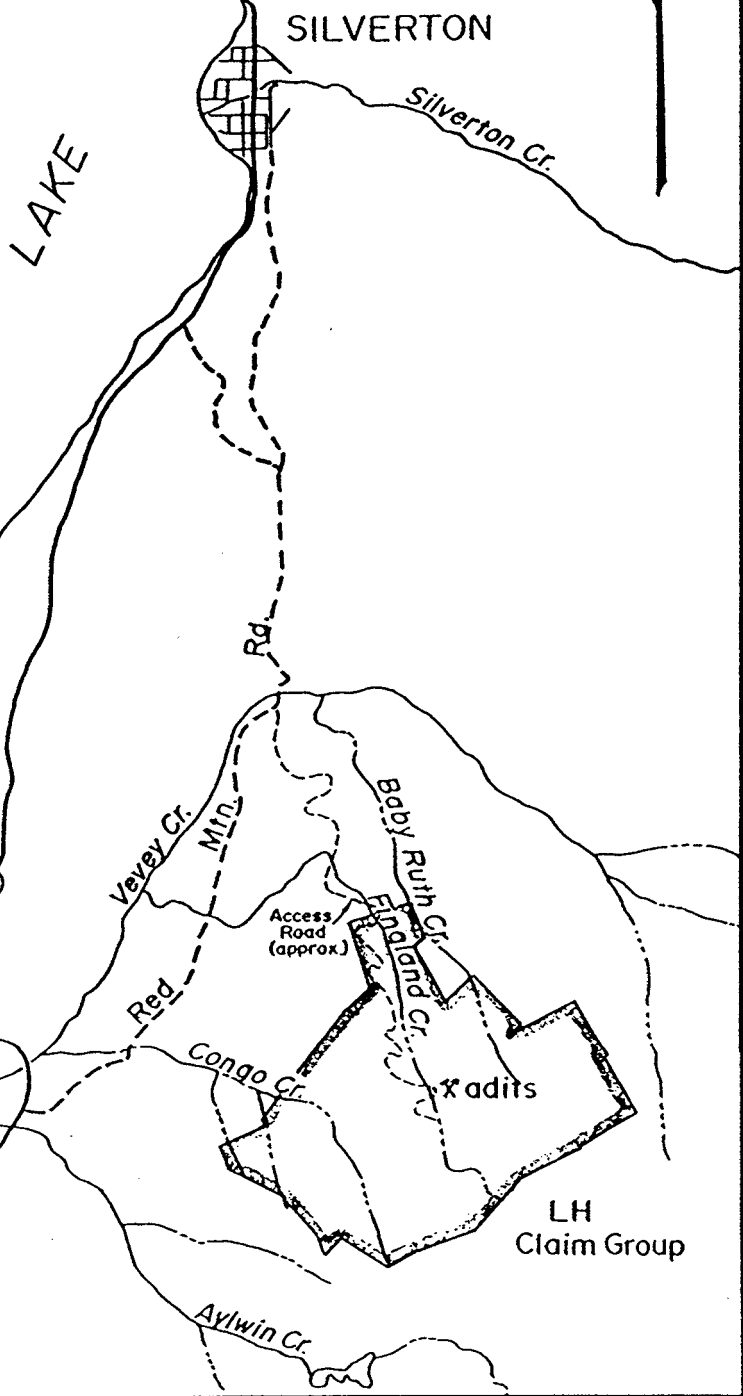
Rainbow Diamond Drilling of Merritt, B.C. were contracted to drill the hole using a Longyear Super 38 diamond drill.

Core is currently being stored at John Anderson's Galena Bay farm, south of Silverton, B.C. on Red Mountain Road.

2. LOCATION AND ACCESS

The L.H. property is located some 7 km south of Silverton, B.C. at longitude 117°20' and latitude 49°54' on N.T.S. map sheet 82F/14, within the Slokan Mining Division.

Access is by 4-wheel drive up Fingland Creek Road off the Red Mountain Road.



Valhalla  
Provincial  
Park

SLOCAN

SILVERTON

Silverton Cr.

Vevey Cr.

Red Mt.

Congo Cr.

Aylwin Cr.

Boyl Ruth Cr.  
England Cr.

Xadits

LH  
Claim Group

REVISED

LH PROJECT 1986

SITE LOCATION MAP

PROJ. No. 0435  
N.T.S. 82 F/14  
DWG. No.  
Figure 1A

SURVEY BY: Can. Dept. E.M&R '81 DATE:  
DRAWN BY: \_\_\_\_\_ SCALE: 1:50,000

NORANDA EXPLORATION  
OFFICE: Vancouver, B.C.

3. TOPOGRAPHY AND VEGETATION

The L.H. property encompasses the headwaters of Fingland and Congo Creeks. Terrain is generally steep with a maximum relief of 3,000 feet and a maximum elevation of 7,000 feet.

Slopes are generally tree covered with thin soil and/or a layer of talus. Avalanche slopes consist of large boulder fields or dense tall alders and/or devils club!

Rock Exposure is generally moderate to good. Steeper sections of the property consist of barren rock or a combination of outcrop and scree slopes.

4. PROPERTY INFORMATION

Table 1 is a list of nineteen contiguous Crown Grants and one fractional mineral claim which form the L.H. property owned by Andaurex Resources Incorporated of Silverton, B.C.

The property is currently under option by Noranda Exploration Company, Limited and Brenda Mines who can jointly earn a 60% interest by fulfilling a work commitment before April 1, 1988.

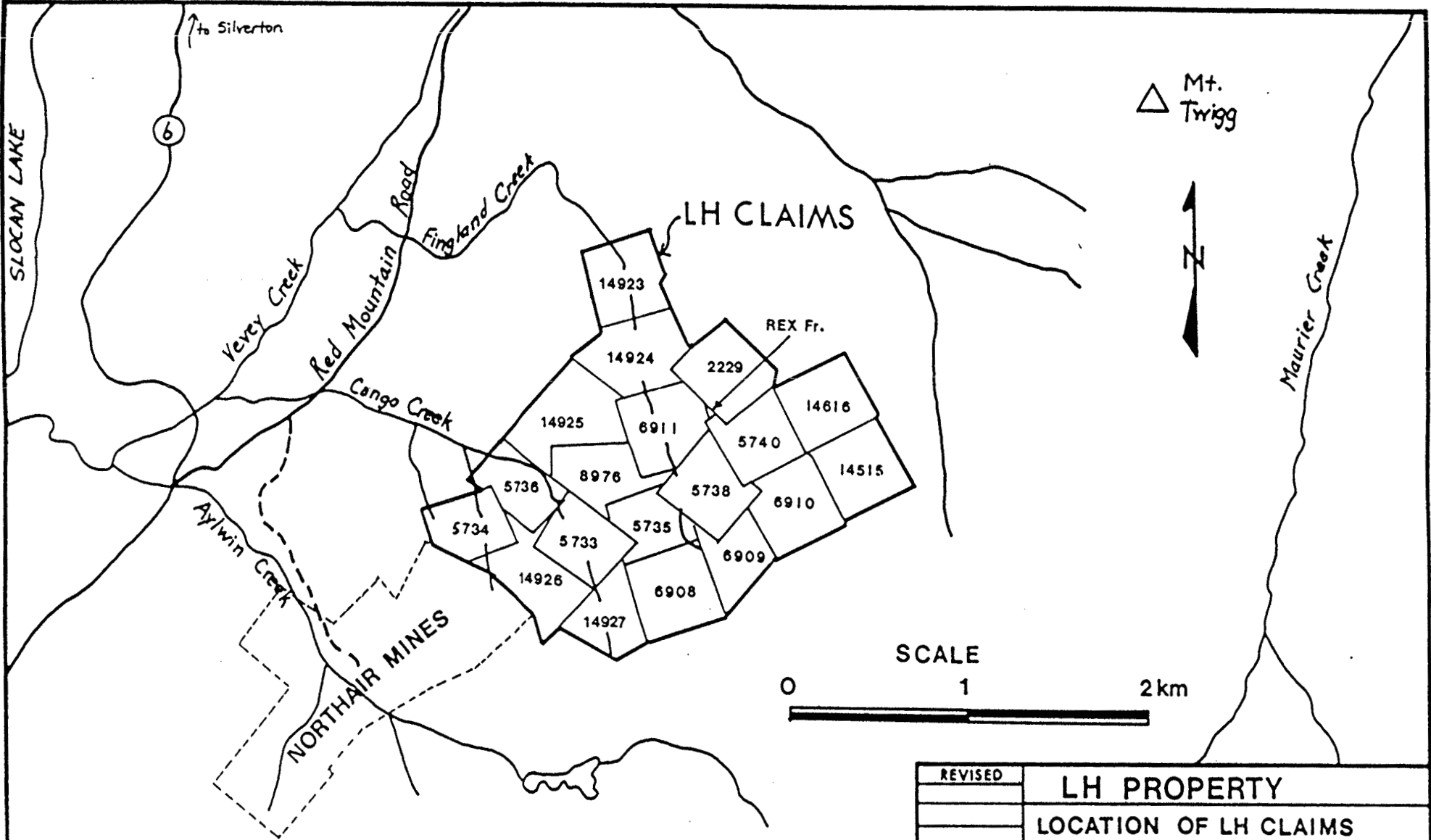
5. PROPERTY HISTORY

Numerous owners and optionors have worked the L.H. property since 1895 and a list of these can be found in Table #2.

6. Property Geology (See Drawing #2)

The property is underlain by a roof pendant of Slocan Group sediments (Unit 1) consisting of immature interbedded sand, silt and shale. The Slocan Group sediments appear to be conformably overlain by Rossland Formation (Unit 2) volcanics consisting largely of a chaotic sequence of intermediate tuffs, lapilli tuffs and agglomerates.

The large volume of pyroclastics as well as their chaotic nature and gradational contact with underlying immature sediments gives rise to a possible volcanogenic island arc type setting. Where a proximal shallow marine or terrestrial volcanic vent would be required in order to produce the volume and size of pyroclastic material present.



REVISED	<b>LH PROPERTY</b>
	<b>LOCATION OF LH CLAIMS</b>
	Shown by Lot Number
PROJ. No. <u>135</u>	SURVEY BY: <u>Alfred Brass</u> , 1982 DATE: _____
M.T.S. <u>82E14</u>	DRAWN BY: <u>KJF</u> SCALE: <u>1:30000</u>
DWG. No. <b>1 B</b>	<b>NORANDA EXPLORATION</b> OFFICE: <u>YANCOUVER</u>

TABLE 1: DESCRIPTION OF LH CLAIMS AND FRACTIONS (FROM FERREIRA 1985)

CROWN - GRANTED CLAIMS AND FRACTIONS

<u>Claim Name</u>	<u>Lot Number</u>	<u>Date Granted</u>
Congo #2	5734	December 23, 1907
Bristol	5735	December 23, 1907
Commander	5736	rev. Cr.,g, Nov. 10/33 December 24, 1907
Harlem Fr.	8976	rev. Cr., *g, Jun 12/35 September 9, 1936
Colfax	14515	C. 1935
Arkoa	14516	C. 1931
Douglas	14923	March 26, 1942
Grief Fr.	14924	March 26, 1942
Pest Fr.	14925	March 26, 1942
Junior Fr.	14926	March 26, 1942
Fred Fr.	14927	March 26, 1942
Baby Ruth	2229	July 18, 1899 rev. Cr. August 1, 1916, *g, October 24, 1917
LH	5738	November 27, 1905
Camden	5739	November 17, 1902
C.B.	5740	November 17, 1902
St. Joe	6908	November 27, 1905
Summit	6909	November 27, 1905
Basin Fr.	6910	November 27, 1905
Harlem	6911	November 27, 1905

\*(rev. Cr. = reverted to Crown)

\*g. = second grant.

Located Claim

<u>Claim Name</u>	<u>Record Number</u>	<u>Record Date</u>
Rex Fr.	2706	September 18, 1981

NOTE: All claims listed above have been grouped together as the LH Group.



TABLE 2: EXPLORATION HISTORY OF THE LH PROPERTY (MODIFIED FROM FERREIRA 1985).

YEAR	ACTIVITY
1895	Original discovery of gold
1911 - 1914	<p>British Columbia Copper Ltd. completed underground development in Tunnels 1 and 2 and establishes reserves of:</p> <p>33,040 tons (29,974 t) @ 0.294 oz/t. (10.08 g/t) Au (positive)</p> <p>18,350 tons (16,647 t) @ 0.159 oz/t. ( 5.45 g/t) Au (probable)</p> <p>51,390 tons (46,621 t) @ 0.246 oz/t. ( 8.43 g/t) Au (total)</p>
1934	Completion of Tunnel 3.
1936	Pacific Mines Petroleum and Development Company diamond drilled 6 holes totalling 250 m from Tunnels 2 and 3.
1939	Shipment of 216.2 tons (196.1 t) from Tunnel 2 yielded 111 oz (3,452 g) Au and 71 oz (2,208 g) Ag
1945	Quebec Gold Mining Corporation (Kenville Gold) diamond drilled 18 holes totalling 460 m from Tunnel 3 and estimate reserves of 60,000 tons (54,432 t) grading 0.25 oz/t (8.57 g/t) Au.
1973	Granby Mining carried out geologic mapping and rock geochemical sampling surveys centred around workings. Attempt to cover other portions of the property hampered by forest fires.
1980	Andaurex Resources upgraded access road to workings and carries out 2 km of soil sampling west of showings.
1981	Hudson Bay Oil & Gas Company Limited optioned the property from Andaurex Resources Inc. Systematic collection of 669 soil samples at 50 m stations on 60 m contour traverses. Geological mapping and collection of rocks, stream sediments and water samples. Road improvement and construction.
1985	Noranda Exploration Company, Limited options the property from Andaurex Resources Inc. Examination of underground workings by Williams (1985), produced calculated total proven and probable reserves at 61,765 tonnes grading 6.27 gm Au/tonne and open at depth.

Surficial examination by Ferreira's (1985) produced a property geology map (scale 1:2500), three grid soil geochemical and one grid I.P/magnetometer surveys, as well as two diamond drill holes which produced a number of narrow disjointed but interesting gold intersections, the best of which was 25.2g Au/tonne over 1.0m.

Surficial rock sampling discovered an intensely altered zone hosted by gabbro which contains 2.5g Au/tonne over 6.3m true width.

Feldspar-hornblende syenite (Unit 3) and gabbro (Unit 5) which underly the south-western portion of the property are believed to be subvolcanic intrusions associated with Rosslund volcanism (Ferriera, 1985). These subvolcanic intrusive phases may be representative of a proximal vent environment mentioned earlier.

Intensely altered rocks (Unit 4) represent irregular shaped zones consisting of pervasive silicification, chloritization, pyrite-pyrrhotite mineralization and local potassic alteration. Ferriera (1985) has grouped this unit with the Rosslund Formation but it's exact age and relationship are still unknown.

Northern and south-eastern portions of the property contain the main bulk of exposed Nelson granodioritic intrusives (Units 6 & 7). These intrusive rocks are host to the Triassic/Jurassic roof pendant and subsequently form the basement of this sedimentary/volcanic pile.

Gold occurrences (L.H. Mine, surface showings, drill hole intersections) are associated with pyrite-pyrrhotite-arsenopyrite mineralization along major shear zones or structures which have been variably silicified, chloritized and/or clay altered.

#### 7. SURVEY CONTROL

Fingland Creek grid established in 1985 by Noranda was used as preliminary control for drill pad and road construction. The exact hole location was surveyed with a transit by J. David Williams, P.Eng., of 310-1225 Cordero Street, Vancouver, B.C.

#### 8. SAMPLING

Sampling was conducted on the basis of lithologies and/or mineralization and/or alteration.

Two hundred and twenty-three samples were fire assayed for g/tonne Au, Ag and geochemically analyzed for Cu, Pb, Zn and Mo. Eighty-one of the above samples were fire assayed for As while 124 were geochemically analyzed and 18 were not tested.

All samples were assayed or analyzed at Bondar Clegg Laboratories in Vancouver, B.C. (laboratory analytical methods can be found in Appendix A).

9. PRESENTATION OF DATA

Drilling parameters are displayed in Table #3. The following list of drawings at a scale of 1:1,000 can be found in the attached map pouches.

<u>Drawing #</u>	<u>Remarks</u>
3	Survey Plan 1986 & 1985 Drilling
4	D.D.H. Section LH-86-6

These were computer drafted by INTEGEX ENGINEERING of 310-1225 Cordero Street, Vancouver, B.C.

The drill hole section has been adjusted for dip test variations. It displays the main lithological units as well as gold fire assays greater than 1.5 g/tonne and their accompanying arsenic assay (%) or geochem (ppm).

Appendix B contains abbreviated drill log summaries for the hole along with gold fire assays greater than 1.5 g/tonne and their accompanying arsenic assay (%) or geochem (ppm).

Appendix C contains the detailed drill logs while Appendix D displays all assay and/or geochem analyses by sample number which can be cross referenced to a sample interval on the accompanying sample interval list.

10. SYNOPSIS OF HOLE LH-86-6

The hole collared and ended within Rossland Fm. (Jurassic) intermediate pyroclastics. See Appendix C for detailed lithological descriptions. Bedding, when discernable, was between 40° and 55° to core axis.

Fracturing, at all angles to core axis, occurs throughout the hole and often contains variable quantities of Py/Po mineralization and/or clay-chlorite-quartz-carbonate infilling.

Narrow granitic to granodioritic dykes occurring throughout the hole, can be in part divided into two sets based on their angle to core axis. One set is at 20-30° to core axis, while the other occurs around 50° to core axis.

TABLE 3

TABLE OF DRILLING PARAMETERS

Hole #	Total Length (m)	Hole Co-Ord (m)	EL. (m)	Az. (True)	Dip (Angle)	Dip Test Depth	Angle	Date Collared	Completed
LH-86-6	284.45	10004.08N - 10264.35E	1785.85	010°	-47°	91.44	-44°	8/20/86	10/4/86

Alteration consists largely of minor to intense silicification with localized calcification and/or chloritization. Silicification can occur over broad intervals and sporadically demonstrates a progressive increase in intensity until all original textures are obliterated. The core at this point appears bleached white and may contain variable quantities of Py, Po, Aspy, along with sporadic brecciated zones and/or calc-silicate/chalcedonic veins.

Intersected at target depth was a 1.4 metre wide quartz vein containing up to 15% combined Aspy and minor Py/Po. Weighted average for a 1.1 metre interval (243.90 - 245.00 m) is 5.25 gm Au/tonne.

Another area of interest in this hole may be a highly silicified zone from 155.42 - 177.98 m which had two disjointed assays running 20.43 gm Au/tonne over 0.43 m and 7.85 gm Au/tonne over 1.29 m (see abbreviated summary of drill logs Appendix B).

#### 11. SUMMARY AND RECOMMENDATIONS

Steepness and terrain dictated the one and only accessible drill site for testing the L.H. workings to depth. This meant having to drill hole LH-86-6 at a sub-parallel angle to the topographical slope, which when combined with deep surficial weathering created unforeseen drilling difficulties thus prolonging the drilling programme.

Significant gold intersections were intimately associated with zones of moderate to intense silicification containing variable sulphide (Py, Po, Aspy) content.

After 1.5 months of drilling, hole LH-86-6 reached it's target depth and intersected a 1.4 metre wide quartz vein containing up to 15% combined Aspy and minor Py/Po. Weighted average for a 1.1 metre interval (243.90 - 245.00 m) is 5.25 gm Au/tonne.

This intersection is too narrow to be of interest at this time, but other zones on the LH property show promise and should be further evaluated by surficial and/or drilling programmes.

#### REFERENCES

- Bradish, L., 1985            Geophysical activities - September, 1985. Memorandum to R. Pemberton, October 9, 1985. Noranda Exploration Company, Limited in-house report.
- Bresee, P., 1982            Report on Geology, Geochemistry, Airborne Geophysics, and Road Preparation, LH Property, Slocan Mining Division, 82F/14. Hudson's Bay Oil and Gas Company Limited in-house report.
- Cairnes, C.E., 1934        Slocan Mining Camp, British Columbia. Geological Survey of Canada Memoir 173, 137 pp.
- Cairnes, C.E., 1935        Descriptions of Properties, Slocan Mining Camp, British Columbia. Geological Survey of Canada, Memoir 184, pp. 66-67.
- Ferreira, K.J.  
Ferreira, W.S.            Report on Field Activities - November, 1985. Noranda Exploration Company, Limited in-house report.
- Little, H.W., 1960        Nelson Map Area, West Half, British Columbia (82F/W1/2). Geological Survey of Canada Memoir 308, 205 pp.
- Williams, J.D., 1985      L.H. Property: Underground Examination and Exploration Potential. Noranda Exploration Company, Limited in-house report.

APPENDIX A  
LABORATORY ANALYTICAL METHODS  
NORANDA/BONDAR CLEGG



# NORANDA

## ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

Revised: 01/86

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984)

### 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 analysis.

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

### 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 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). 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 6X 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 acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.4 g sample is digested with 1.5 mL of 70 % perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

Barium - Ba: 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 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 into the flame of the AA instrument c/w EDL.

Gold - Au: 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

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 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, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01 (10PPB)
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	

2. Geochemical methods (Bondar-Clegg)

All of the analytical methods used by Bondar-Clegg have proven to be dependable and accurate. However, our continuing method development and response to technological advances have altered a few procedures over the years. Listed below are the most common techniques:

Element	Extraction	Method of Analysis
*Cu, *Pb, *Zn, *Mo, *Ag, *Cd, *Ni, *Co, *Mn, *Fe	Lefort Aqua Regia <i>0.5g → 1.5ml HNO<sub>3</sub> / 1ml HCl → 10ml H<sub>2</sub>O</i>	Atomic Absorption
*U	HN03	Fluorimetric
*W 0.2g	Basic Oxidation Fusion	Colourimetric
F 0.2g	Basic Fusion	Citrate Buffer-Specific Ion
Au, Pt, Pd 10.0g	Fire Assay	Atomic Absorption (or gravimetric for assay)
*As 0.1	HCL04 - HN03 Arsine	Colourimetric
Hg	Aqua Regia	Closed Cell, Flameless Atomic Absorption
*Sn, *Sb, *Ba, *Rb, *Sr, Y Zr, *Nb, La, Ce, Ti	<i>~ 5.0g</i>	Energy dispersive XRF
Th, *Se, *Ta, Ga, In		Wavelength dispersive XRF
*Sb (low detection)	HCL - organic extraction	Atomic Absorption
*Bi 1.0g	HN03	Atomic Absorption
*V, *Be, *Li	HCL04 - HN03 - HF	Atomic Absorption
*Cr	Sodium Peroxide Fusion	Atomic Absorption
*Te	HBr - Br + Organic Extraction	Atomic Absorption
Tl	Multi-acid HBr - Br + Organic extraction	Atomic Absorption
B	Basic Fusion	Plasma
Re	Alkali Fusion + Organic Extraction	Atomic Absorption
C		Leco Induction Furnace

\* These elements are now available by plasma; please refer to the price list for clarification.

BONDAR-CLEGG  
ASSAYING PROCEDURES

Au/Ag - Fire Assay

As - A 0.5 gram pulverized sample is digested in  $\text{HNO}_3/\text{HCL}$  and  $\text{KClO}_4$  on a hot plate overnight. After decomposition of the sample, 50% HCL is added to form  $\text{As Cl}_3$ . Arsenic chloride is distilled and the arsenic is determined in the distillate by Titration with KI.

APPENDIX B  
ABBREVIATED DRILL LOG  
SUMMARIES & SIGNIFICANT GOLD ASSAYS

LH PROJECT 1987  
DIAMOND DRILL SUMMARY DATA FILES

NOTE: Units of Distance & Length - [metres]  
 Au units - [gram/tonne]  
 As units - [ppm] if value integral  
           - [ % ] if format n.dd  
 '-' indicates assay value below detection limit  
 '+' indicates assay value above detection limit

FILE: drilldat\LH-86-06.ASY

Sample	From	To	Au	As	In'val	Remarks
76945	155.42	155.85	20.43	1000	+/ 0.43	
66277	161.00	161.91	1.78	1000	+/ 0.91	
66279	162.60	163.17	4.08	1000	+/ 0.57	
66284	166.48	167.77	7.85	1000	+/ 1.29	
66288	170.70	170.76	5.52	1000	+/ 0.06	
24184	226.10	226.25	2.50	0.01	/ 0.15	
24189	231.80	232.90	3.67	0.08	/ 1.10	
24195	238.72	240.19	3.33	0.24	/ 1.47	
24199	243.90	244.10	8.33		/ 0.20	
24200	244.10	244.68	4.56		/ 0.58	
24201	244.68	244.81	6.51		/ 0.13	
24202	244.81	245.00	2.16		/ 0.19	

FILE: drilldat\LH-86-06.GLG

FROM	TO	GEOLOGY	DESCRIPTION
0.00	4.10	OVERBURDEN	intrusive & volcanics
4.10	27.00	LAPILLI TUFF	bio & chlte altn, occ bl, 10% Sx 23.45m
27.00	49.15	AGGLOMERATE	m tuff, bed'g 70/ca, gr dike 47.5 48/ca
49.15	60.00	AGGL & LAPILLI TUFF	gr-dio dike @ 56.8m ?/ca
60.00	62.30	GRANODIORITE DIKE	contacts 25 & 30 /ca
62.30	66.95	XTAL TUFF	feldspar xtal mosaic, gr dike 63.4 38/ca
66.95	67.80	Q-VEIN? & Sx	fractured w/ Sx mosaic, Sx 10/ca
67.80	76.40	XTAL & LAPILLI TUFF	35% Sx 68.78-69.02m ~80/ca
76.40	107.90	TUFFS & AGGLOMERATE	tuff, lap & xtal tuff, m altd zones
107.90	144.06	SIL LAP TUFF & AGGL	upto 15% Sx, Q-vein? 122.41 50/ca
144.06	155.85	LAPILLI TUFF	occ bl, thin Q veins & apy bands
155.85	177.98	SIL LAP TUFF & AGGL	upto 15% Sx (mostly apy)
177.98	212.26	TUFF & LAPILLI TUFF	m aggl, occ sil & chlte altn
212.26	218.83	SIL TUFF & GR VEINS	tuff & lapilli tuff, m aggl, gr 3-50/ca
218.83	221.55	TUFF	fg, bio altn, m chlte altn, bed'g 40/ca
221.55	229.53	ALTERED TUFF	strg-intense sil, upto 10% Sx (popy)
229.53	243.60	SIL TUFF & LAP TUFF	less altd zones, upto 20% Sx, bed 60/ca
243.60	245.00	QUARTZ VEIN	upto 15% Sx, mostly apy, 40-60/ca
245.00	253.60	TUFF	occ bl zones & m lapilli intervals
253.60	261.90	LAPILLI TUFF & AGGL	bedding? 40-50/ca
261.90	284.45	TUFF	m lapilli tuff, bl zone 272.5-273.5m

FILE: drilldat\LH-86-06.SVY

DEPTH	AZIMUTH	DIP	NORTHING	EASTING	ELEVATION	NORTHSEC	EASTSEC
.00	345.00	-47.00	10004.0842	10264.3354	1785.8538	9815.9771	10189.8017
91.44	345.00	-44.00	10065.9844	10247.7493	1720.6416	9871.4753	10221.8436
284.45	345.00	-44.00	10200.0933	10211.8149	1586.5656	9991.7140	10291.2635

APPENDIX C  
DETAILED DIAMOND DRILL HOLE LOGS

NORANDA EXPLORATION COMPANY LTD.

Date Colored Aug. 20, 1986		Date Completed Oct. 4, 1986		Core Size NQ		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No. 82F/14	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 1 of 44	
Lat. 10004N		Elev. 1779.3 m		Dip -47°		RECORDED		CORRECTED		Lat. 10004.08N		Elev. 1779.3 m		Dip -47°	
Dep. 10265E		Length 284.45 m		Bearing 10° True		RECORDED		CORRECTED		Dep. 10264.34E		Length 284.45 m		Bearing 10° True	
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
0	4.1		OVERBURDEN Rubbly, intrusive volcanics							(4.1-5.6) 66321	1.5				
4.1	6.8	70%	LAPILLI TUFF Mottled purple-brn/white to mottled med green/white. Frags. from 1mm to 5mm angular to sub-rounded. Frags. are generally felsic within an intermediate matrix. Pervasive biotite and chlorite alteration. Rusty along fractures. Trace Po/Py finely disseminated. Very poor core competency - Rubbly.			5.9m - Rusty Fr. @ 40°ACA. 5.0m dominant quartz flooded zone with limestone gneissic mafics @ 50°ACA.		Po/Py 1%							
6.8	11.0	50%	LAPILLI TUFF As described 4.3-6.8 m. Rubble					Po/Py 1%		6.7-8.6 66322	1.9				
11.0	12.5	70%	LAPILLI TUFF As described 4.3-6.8 m.			11.4m - Fr. 70° ACA. 11.1 m - Fr. 15°ACA				66323	1.8				
12.5	12.8	30%	LAPILLI TUFF As described 4.3-6.8 m. Rubble.												
12.8	13.5	98%	LAPILLI TUFF As described 4.3-6.8 m. Increase in Po/Py to 2% - disseminated thru-out.			Dominant Fr. @ 70°ACA		Po/Py 2%		74601	0.7				
13.5	13.6		LAPILLI TUFF WITH MINERALIZED FR. Fr. @ 035°ACA. Py follows fracture, then breaks from Fr. & goes parallel to C.A.			Fr. - 35°ACA		Py 5%		74602	.1				



NORANDA EXPLORATION COMPANY LTD.

Date Collected		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 2 of 44		
Lot.		Elev.		Dip		RECORDED		CORRECTED		Lot.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
13.6	14.6	95%	LAPILLI TUFF As described 4.3-6.8 m., but rusty, numerous fractures.			Two dominant Fr. oriented @ 30° and 60°ACA		Po/Py 1%		74603	1.0					
14.6	14.9	70%	LAPILLI TUFF As described 4.3-6.8 m. but highly fractured - very poor core comp.			Mosaic of Fr.		Po/Py 1%								
14.9	21.19	40%	LAPILLI TUFF & TUFF As described 4.3-6.8 m. 14.9 - 15.8m - Moderate core comp. 15.8 - 16.5m - Rubble - semi-rounded 16.5 - 16.8m - Moderate core comp.			19.4 - Fr. 35° ACA. 20.2 - Fr. sub-parallel to C.A. 20.6 Fr 10°ACA		Po/Py 1%		15.4-16.46 66324	1.06					
		10%	16.8 - 19.4m - Rubble - represented by 20 cm of rubble. 19.4 - 21.19m - Highly broken core.							(16.46-19.8) (66325 )3.34 (20.73-21.8) (66326 )1.07						
21.19	22.87	50%	BLEACHED ZONE (TUFF) Pale pistachio green to pale brown. Visible frags. are of tuff size (1.4mm) Bleached. Rusty along fractures with Mn dendrites. Rubbly Core.			Mosaics of Fr. many at 10°ACA		Po/Py Fr. 1%								
22.87	23.45	100%	LAPILLI TUFF As described 4.3-6.8 m.					Po/Py		(21.8-23.45) (66327)						
23.45	23.8	98%	LAPILLI TUFF INCREASED MINERALIZATION: As described 4.3-6.8 m. Increased silicification.			Two dominant Fr. directions @ 30 & 5°ACA		Po/Py 10%		74604	0.35					
23.8	26.2	98%	LAPILLI TUFF As described 4.3-6.8 m. Increased silicification. Numerous 1-2 cm Frags.			25m - Fr.- 10° ACA - rusty.		Po/Py		(25.0-26.2) (66328)	1.2					

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 3 of 44	
Lot.		Elev.		Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip	
Dep.		Length		Bearing						Dep.		Length		Bearing	
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
26.2	26.52	70%	BLEACHED ZONE WITH 1 cm CALCAREOUS Bx ZONE. Pale postachio green. Chlorite alteration, Mn dendrites. Bx. zone (calc-silicate frags.) @ 35°ACA			Bx zone 35°ACA		0		74605	0.32				
26.52	27.0	98%	LAPILLI TUFF As described 4.3-6.8 m.					Po/Py		74606	0.48				
27.0	28.5	85%	AGGLOMERATE Mottled grey/green/white/brown siliceous frags, angular from 0.25cm to 4cm within an intermediate matrix of biotite and chlorite altered frags. av. 1-2mm. Silicified. Contains 1-2% Po/Py finely disseminated thru-out with a trace of finely disseminated Aspy. Mod. comp. core.			Two dominant Fr. directions @ 50°ACA & 12°ACA		1-2% Po/Py Trace Aspy		74607	1.5				
28.5	30.18	98%	AGGLOMERATE As described 27.0-28.5 m. 29.5 - 30.18m - Highly Broken Zone, rubbly.			28.55-Fr-rusty @ 10°ACA. Excellent bedding @ 70°ACA		1-2% Po/Py Trace Aspy		(28.5-30.18) (66329)	1.68				
30.18	32.2	95%	AGGLOMERATE As described 27.0-28.5 m. 31.1 - 31.3m - rubbly, fractured zone. Increased chloritization.			29.1-Fr-20°ACA		Po/Py 1-2%		(30.18-32.2) (66330)	2.02				
32.2	33.54	98%	AGGLOMERATE As described 27.0-28.5 m. 32.2 m - Fr. @ 40°ACA with Py 32.6 m - Fr. with Py @ 70° - highly chloritized. Rusty Fr. @ 25°ACA					2-4% Po/Py		74608	1/34				
			33.18 m - A zone of mosaics - like chlorite/Po/Py contact @ 80°ACA												
			33.4 m - Fr. @ 70°ACA												

**NORANDA EXPLORATION COMPANY LTD.**

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES					
							RECORDED	CORRECTED	RECORDED	CORRECTED					Sheet 4 of 44	
Lat.		Elev.		Dip						Lat.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
33.54	36.59	98%	AGGLOMERATE WITH LAPILLI TUFF. As described 27.0 - 28.5m. Competant core, except for 36.4 to 36.59 m. Silicified.				36.5m-Fr. @ 30° ACA		2-4% Po/Py Tr.Asby		(33.54-35.06) (66331) 1.52m (35.06-36.54) (66332) 1.53 m					
36.59	38.11	98%	AGGLOMERATE As described 27.0 - 28.5 m. Pink potassic alteration. 37.3 - 37.9 m - Zone of increased chloritization.				36.7m-chlorite Fr. with Po/Py @ 28°ACA. 37.1m potassic hairline Fr. @ 65°ACA		2-4% Po/Py Tr.Asby		74609	1.52 m				
38.11	43.29	98%	TUFF WITH INTERBEDDED AGGLOMERATE. As described 27.0 - 28.5 m but with a marked decrease in chloritization from 27.0 - 38.11 m, chloritization is now a darker green & occurs dominantly within fractures - core is no longer as bleached. 38.11 - 38.21 m - rounded rubble - ground core.				37.4m - Fr.-55° ACA. 38.6m - 1cm veinlet @ 40°ACA. 39.0m Fr's - 50°ACA. 39.4m - calc-sil veinlets & Fr's. @ 22°ACA. 38.8m		1-2% Po/Py		(38.11-39.63) (66333) 1.52 m (39.63-40.85) (66334) 1.22 m (40.85-42.07) (66335) 1.22 m (42.07-43.29) (66336) 1.22 m					
43.29	45.09	100%	AGGLOMERATE WITH INTERBEDDED LAPILLI TUFF. As described 27.0 - 28.5 m.				43.29m-Fr.-@ 50° ACA. 44.0m - Fr. @ 38°ACA. 38.1m Fr.- 18°ACA									

DRILL LOG - #1

Date \_\_\_\_\_ Logged By \_\_\_\_\_

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 5 of 44	
Lot.		Elev.		Dip		RECORDED		CORRECTED		Lot.		Elev.		Dip	
Dep.		Length		Bearing		RECORDED		CORRECTED		Dep.		Length		Bearing	
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
43.29	45.09	100%	CONTINUED:			38.2m - calc-sil veinlets 2mm with intense chloritization @ 55°ACA				74610	1.8				
						44.5m - Poss. bedding @ 80°ACA									
45.09	47.26	100%	AGGLOMERATE WITH LAPILLI TUFF. As described 27.0 m - 28.5 m.			45.46m-chlorite veinlet - 3mm @ 55°ACA. 45.6 m Po along Fr. @ 53°ACA. 45.8 m Fr. 55°ACA 47.2m Fr. 50°ACA		Po/Py 2-4%		(45.09-46.19) (66337) (46.19-47.26) (66338)	6.19 1.10 m 1/07 m				
47.26	47.4	50%	RUBBLE CAVED												
47.4	47.5	100%	AGGLOMERATE As described 27.0 - 28.5m.					Po/Py		66339	1.08				
47.5	47.8	50%	GRANODIORITE DYKE Good lower contact @ 48° ACA. Slightly rusty - trace weathered sulphides. Upper contact missing. Top 10 cm rubble.			Contact @ 48°		Trace		66339					
47.8	48.48	98%	AGGLOMERATE WITH LAPILLI TUFF. As described 27.0 - 28.5 m.			47.9m Fr. @ 50° ACA. 48.1m chlorite veinlets @ 28°ACA		Po/Py 1-2%		66339					

DRILL LOG #1

Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES			
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Sheet 6 of 44	
Dep.		Length		Bearing										HOLE No. LH-86-6	
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
48.48	49.15	98%	<u>SILICEOUS AGGLOMERATE/TUFF</u> Mottled green-grey/white As described 27.0 - 28.5 m. but siliceous frags. Averaging 2-3 cm comprise 80% of core. 2-4% Po/Py disseminated.			Numerous fract. @ 55°. One at 10°ACA.	Po/Py		74611	.67					
49.15	50.61	85%	<u>TUFF &amp; LAPILLI TUFF</u> As described 4.3 - 6.8 m. Less siliceous than above.			49.6m Fr. 28° ACA.	1%		66340	1.46					
50.61	56.8	98%	<u>AGGLOMERATE WITH LAPILLI TUFF.</u> As described 27.0 - 28.5 m. Numerous Fractures.			54.5m Fr.- Sub-parallel. 53.8m Fr.- 10°ACA. Numerous Fr's @ 10°ACA. 55.1m Fr.- sub-parallel to C.A. 55.8m 55-95m - Fr.- 55°ACA. 56.6 m quartz flooded Fr. @ 40°ACA	Po/Py 1%		50.61-52.61 66341 52.61-54.5 66342 54.5-55.79 66343 55.79-56.8 66344	2.0m 1.89m 1.29m 1.01m					
56.8	57.0	75%	<u>GRANODIORITE DYKE</u> Ground core - contacts not visible. Medium grained. Lacking mafics.			Traces @ 50°ACA	0		56.8-57.0 66345	0.2m					
57.0	58.5	90%	<u>AGGLOMERATE &amp; LAPILLI TUFF.</u> As described 27.0 - 28.5 m. Badly fractured core. Calc-sil veinlets @ 40-45°ACA.			Numerous Fr's. @ 10-15°ACA	Po/Py		57.0-58.5 66346	1.5m					
58.5	60.0	98%	<u>AGGLOMERATE</u> As described 27.0 - 28.5m. 35°fractures are mineralized more than the 50° ones.			58.6m. Cross-cutting Fr's. @ 50° & 35° in opposite directions.									

DRILL LOG - 11

Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 7 of 44		
Lat.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip		HOLE No.		
Dep.	Length	Bearing						Dep.	Length	Bearing		LH-86-6			
From	To	Recovery	Description				Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
58.5	60.0	98%	CONTINUED:				59.3m Fr.- 40° ACA. 59.6m - Mosaics of mineralized Fr's.	Po/Py 3%		74612	1.5				
60.0	62.3	99%	GRANODIORITE DYKE Good lower contact @ 25° upper @ 30°ACA. White with 5% mafics - dominantly biotite. Felsics - 80% felds. (plag.), 20% quartz. Medium grained. Competent core					Po/Py 1%		66347	2.3				
62.3	63.4	99%	(XTAL <sup>2</sup> :) TUFF Mottled grey/green/white. A mosaic of felsic-feldspar crystals from 1-4mm, sub-rounded, with a small size variance, within a grey-green matrix of biotite-chlorite altered fine grained fragments ( 1mm). Moderate comp. core.					Po/Py Trace 1%		66348	1.1				
63.4	64.94	98%	GRANODIORITE DYKE Good lower contact @ 38° ACA. Upper contact missing. As described 60.0 - 62.3 m.					0		63.4-64.94 66349	1.54m				
64.94	66.22	98%	SILICIFIED INTERMEDIATE XT <sup>2</sup> TUFF. Mottled grey green with 0.5 - 2 mm fsp. xtls set in biotite rich matrix. Biotite altered to chlorite contains sporadic lap. size frags. of same material-finely diss.Py, Po.					1% Po/Py Trace Aspy		30036					
66.22	66.95	100%	HIGHLY SILICIFIED LAP. TUFF. Partially bleached & somewhat cataclastic in appearance. Increase in chloritization of biotite. Py/Po diss. Fr. filled & irregular bands (poss. remnant bedding @ 50° to C.A.)				217.2 contact irregular @ 50° to C.A.	3% Po/Py Trace Aspy		30037					
66.95	67.80	98%	QUARTZ VEIN ? White-grey highly fractured forming a mosaic of massive Po, Py & tr. Aspy veinlets. May be a highly silicified, entirely altered tuff. 221.5-222.2cm wide massive Po/Py vein forming					15-20% Py/Po Trace Aspy		30038					

DHIT 106-81

lower contact of silicified zone or quartz veining A.C.A. 10°

Date \_\_\_\_\_ logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 8 of 44		
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		HOLE No.		
Dep.		Length		Bearing						Dep.		Length		LH-86-6		
From	To	Recovery	Description				Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
67.80	68.78	98%	SILICIFIED INTERMEDIATE XTAL TUFF. Same as 213-217.2. 222.2 - 222.4 - 5 cm wide barren granite dyke. A.C.A. 60°.							30039						
68.78	69.02	98%	SEMI-MASSIVE Py/Po ZONE Highly chloritized. 222.6 - sharp contact which has been offset by fine fractures @ 30° to C.A. Contact appears to have been @ approximately 80° to C.A.					35%	Po/Py Trace	30048						
69.02	70.49	95%	SILICIFIED LAPILLI TUFF Bleached grey-white moderately fr. with mosaic of chloritic or biotite altered to chlorite veinlets often containing Py+Po. 228' - fine chloritic veins @ 60° to C.A. (may represent remnant bedding planes) are X-cut by fine chloritic fractures @ 20° to C.A. 230.3' - 2cm wide zone of 10% Po/Py					1%	Po/Py Trace	30041						
70.49	71.89	98%	SILICIFIED LAPILLI TUFF Same as 226.4 - 231.2 with slight increase in Py/Po content towards 235.8'.					1-2%	Po/Py Trace	30042						
71.89	75.3	98%	XTAL TUFF As described 62.3 - 63.4m. 73.48 - 75.7 m - agglomerate size fragments. 75.2 - chlorite veinlet 3mm wide with parallel quartz flooded zones - total 1cm @ 55°ACA. Cross-cut by an altered fr. @ 15°ACA - opposite direction.				72.1m - Fr. - 15° ACA. 72.6m - Fr. 66°ACA		Po/Py 1-2%	71.89-73.48 66350	1.59 m					
										73.48-75.53 24501	1.82 m					
75.3	76.2	98%	TUFF As described 62.3 - 63.4m, but with only isolated plagioclase xtals. Contains isolated lapilli size frags. 75.5m - calc-sil veinlets 1.5mm wide with 0.25-0.5cm bleached zones on each side @ 15°ACA. Numerous irregular fractures.					Po/Py 1%	75.3-76.2 24502	0.9 m						

DRILL LOG - 81

Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 9 of 44	
Lot.		Elev.		Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.		Elev.		Dip	
Dep.		Length		Bearing						Dep.		Length		Bearing	
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
76.2	76.4	98%	LAPILLI TUFF 4-6mm siliceous frags. within a biotite/chlorite altered groundmass. Cut by 2 parallel calc-sil veinlets @ 10-15°ACA, 2mm each, with parallel but irregular bleached zones. Calc-sil veinlets locally rusty (in patches).				Po/Py 1%		74613	0.2					
76.4	77.75	98%	INTERBEDDED XTAL TUFF & AGGLOMERATES. As described 62.3-63.4 m & 27.0-28.5 m respectively. Contains isolated calc-sil veinlets 1-2 mm, from sub-parallel to 15°ACA. 77.7 m - numerous mineralized Fr's. @ 40°ACA, with one @ 58°.				Po/Py 3-4%		74614	1.35					
77.75	81.5		AGGLOMERATE & LAPILLI TUFF. As described 27.0-28.5m with zones of only lapilli size plag. Fr's. (xtal tuff).			78.0m-possible bedding @ 40° ACA. 78.2m - irregular chlorite veinlet from 2mm-2cm @ 40° ACA. 78.3m Calc-sil veinlet @ 15°ACA. 78.5m clay altered (zeolite?) Fr. @ 70°ACA. 78.7m fracture for 0.4m of core @ 5°ACA. 79.3m calc-sil veinlet @ 15°ACA.									



NORANDA EXPLORATION COMPANY LTD.

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 10 of 44		
Lat.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip		HOLE No. LH-86-6		
Dep.	Length	Bearing						Dep.	Length	Bearing		ASSAYS			
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width			
77.75	81.5		CONTINUED:				79.8m clay altered (zeolite) Fr. @ 50°ACA. 80.4m 0.2-lcm chlorite veinlet @ 30°ACA		Po/Py 1%		74615	1.5			
81.5	83.0		INTERBEDDED TUFF & AGGLOMERATE. As described 27.0 - 28.5 m (agglomerate) & 62.3 - 63.4 m Po/Py dominantly within agglomerate frags.				82.1m Fr. 70° with white alteration. At 4-5 xtal. feldspar?. Zeolite Very slightly calcareous. 82.3m Fr. 35°ACA		Po/Py		74615	1.5			
83.0	86.58	98%	INTERBEDDED LAPILLI TUFF & AGGLOMERATE. As described 27.0 - 28.5 m (agglomerate) & 4.3 - 6.8 m (tuff).				83.6m Fr. @ 80° ACA, with white alteration (as described 81.5-83.0m). 83.9m Fr. rusty 13° ACA. 85m Fr. with felds. alt. 80°ACA same at 30°. 86.2m Fr. @ 33°ACA. 86.4m Fr. 70°ACA		Po/Py 1%		83.0-85.0 24505 85.0-86.58 24506	2.0 m 1.58m			

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 11 of 44	
Lat.		Elev.		Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip	
Dep.		Length		Bearing						Dep.		Length		Bearing	
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
86.58	89.8	98%	INTERBEDDED TUFF & LAPILLI TUFF. As described 62.3 - 63.4 m & 4.3 - 6.8 m. Zone contains numerous fractures with feldspar alteration as described 81.5 - 83.0 m.			86.65m feldspar altered Fr. @ 30°ACA. 86.8m feldspar alter. Fr. @ 70°ACA.		Po/Py 1%		86.58-88.2 24507	1.62 m				
						87.0m calc-sil veinlets @ 70°ACA. 87.3m Fr. 33°ACA. 87.9m Fr. 20°ACA. 88.6m calc-sil veinlet at 80°ACA. 89m calc-sil veinlets @ 55°ACA				88.2-89.8 24508	1.6 m				
89.8	91.45	98%	INTERBEDDED AGGLOMERATE & LAPILLI TUFF. As described 27.0 - 28.5 m & 4.3 - 6.8 m.			90.2m Fr. @ 40°ACA. 90.5m - calc-sil veinlet @ 35°ACA. 90.9m Fr. rusty @ 30°ACA.		Po/Py 2-3%		74616	1.65				

NORANDA EXPLORATION COMPANY LTD.

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES						Sheet 12 of 44	
Lot.		Elev.		Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.		Elev.		Dip		HOLE No.	
Dep.		Length		Bearing						Dep.		Length		Bearing		LH-86-6		
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS					
91.45	93.0	100%	INTERBEDDED LAPILLI TUFF & AGGLOMERATE. As described 4.3 - 6.8 m & 27.0 - 28.5 m. Po/Py 1-3% as dissem. & fracture fillings. Very chloritic-silicified, lesser biotite alteration.				91.6m Fr. @ 60° ACA with a cross-cutting fracture @ 50°		Po/Py 1-3%		74617	1.5						
							in opposite direction. 91.8 Po along Fr. @ 53°ACA - very chloritic.											
							92.1m - 1mm calc-sil veinlet @ 40°ACA.											
							92.2m chloritic Fr's. with minor Po @ 50° ACA. 92.4m Po											
							along chlorite Fr. @ 60°ACA. 92.9m Po along chlorite Fr. @ 45°ACA.											
93.0	94.6	100%	INTERBEDDED LAPILLI TUFF & AGGLOMERATE. As described 4.3 - 6.8 m & 27.0 - 28.5 m. Same as interval above.				93.1m silicified chlorite veinlet @ 54° ACA. 93.5m Fr. @ 20°ACA with a silicified chlorite zone @ 30° in oppo-		Po/Py 1-3%		93.0-94.6 24509	1.6m						
							site direction.											

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES					
Lat.		Elev.		Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip	
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description				Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
93.0	94.6		CONTINUED:				93.9m bleached Fr. @ 70°ACA. 94.3m silicified chlorite zone @ 55°ACA.									
94.6	94.7	100%	GRANODIORITE DYKE 4 cm true width @ 33°ACA				DYKE 33°ACA	Po/Py 1%		24510	0.15					
94.75	99.0	98%	INTERBEDDED AGGLOMERATE & LAPILLI TUFF. As described 27.0 - 28.5 m & 4.3 - 6.8 m. Intense chloritic mineralization & silicification.				Fractures and chloritization runs @ 60°ACA. 97.4m Fr. @ 22°ACA. 97.5m Fr. rusty 66°ACA			94.75-96.75 24511 96.75-98.0 24512 24512 98.0-99.0 24513	2.0 m 1.25 m 1.0 m					
99.0	99.6	70%	BLEACHED ZONE Pale distachio green to pale brown. Pervasive biotite & chlorite alteration. Calcite veinlet 1-2cm wide @ 10°ACA rusty with manganese dembrites. Very finely disseminated Po/Py with close proximity to calcite vein.				Calcite vein @ 10°ACA	Py/Po 1%		74618	0.6 m					
99.6	103.38	98%	LAPILLI TUFF Dark greenish-grey mottled whitish, frags. avg. 2-3mm, but from .5-5mm. Occasional thin (.5mm) calcitic veinlets & chloritic fractures. Fairly homogenous unit.				100.0m sub-parallel @ 103.0° chloritic, calcite alter. in fract. at 32° to C.A.	1-2% Py/Po		99.6-101.0 24514 101.0-102.4 24515	1.0 1.4 m 1.4 m					

Drill LOG - 41

Date \_\_\_\_\_ 102.4-10330  
24516 Logged By \_\_\_\_\_

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 14 of 44		
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		HOLE No.		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
103.38	104.96	80%	<p><b>ALTERED TUFF</b> Chloritized pale greenish to locally reddish-grey locally biotitic. Some highly irregular thin fractures &amp; patches of greyish, calcitic altered tuff with up to 5% Py/Po finely diss. From 104.54m most of core loss in the zone - numerous calcite healed fractures.</p>			<p>104.02m chalced. + clayrich vein at 30° to C.A. At 104.29m prominent calcitic chloritic fract. 72° to C.A. At 104.64m calcitic fract. at 30° to C.A. 104.91m calcedonic vein 2mm wide 72° to C.A. At 104.96m alteration ends abruptly at 68° to C.A.</p>		2%		74619	1.58					
104.96	107.9	95%	<p><b>LAPILLI TUFF</b> As described from to 103.38 m. 107.73 - 93 m is altered as described from 103.38 to 104.96.</p>			<p>At 105.36m fract. at 60° to C.A. Around 105.62m calcite healed thin fracturing at 62° to C.A. At 107.43m bedding is 86° to C.A.</p>				104.96-24517 106.92-107.9 24518	106.92 1.96 m 0.98 m					
107.9	108.0		<p><b>SILICIFIED LAPILLI TUFF WITH AGGLOMERATE.</b> Altered light purplish to greenish grey, with mottled patchy lighter whitish silicification thru-out. Numerous highly chloritic fract. usually irreg. &amp; occas. with Po/Py. 100% Recovery.</p>			<p>Intersecting sulphide rich Fractures at 107.95m. Py at 80° to C.A., Po at 46° to C.A. and 80° to C.A.</p>		10%		74620	0.1 m					

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES			DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 15 of 44				
Lat.	Elev.	Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip	HOLE No.					
Dep.	Length	Bearing					Dep.	Length	Bearing	LH-86-6						
From	To	Recovery	Description				Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
108.0	108.96		SILICIFIED LAPILLI TUFF WITH MINOR AGGLOMERATE. As described for 107.9 - 108.0 but without light alteration chloritic fractures. Very dark green and numerous throughout.					1% Po/Py		24519	0.96 m					
108.96	109.67	98%	SILICIFIED LAPILLI TUFF WITH MINOR AGGLOMERATE. Exactly as described for 108.0 - 108.96 m.					3-4% Po/Py		74621	0.71 m					
109.67	109.86		SILICIFIED LAPILLI TUFF WITH MINOR AGGLOMERATE. exactly as for 108.0-108.96m. Massive sulphide rich fracture 75% Po, 25% Py ½cm wide and numerous irregular hairline ones with same Py/Po				Massive sulph. Py/Po in fract. 70° & 55° to C.A.	3/4 Po 1/4 Py 15%		74622	0.19 m					
109.86	111.5		SILICIFIED LAPILLI TUFF WITH MINOR AGGLOMERATE. Exactly as for 108-108.96 m. Local minor brecciation local intense fracturing as 110.45 m 50° to C.A. also at 17° to C.A. Sulphides dissem. & blotchy often associated with fractures.				At 110.45m much fracturing. Py in fract. at 50° to C.A. +									
							average Po & mainly Po in fract. at 17° to C.A. At 110.68m	3/4 Po 1/4 Py 5%		74623	1.64 m					
							Imm wide massive Py fract.									
111.5	112.76	95%	SILICIFIED AGGLOMERATE & MINOR LAPILLI TUFF. As described from 108-108.96 m, but mainly agglomerate with silicified whitish clasts.				Bedding is 46° to C.A. 111.63 & 111.66m	3%Po 1%Py		74624	1.26 m					
112.76	116.78	95%	SILICIFIED AGGLOMERATE WITH MINOR LAPILLI TUFF. As described from 108-108.96 m. Locally more biotite-chlorite rich.				113.26m Fr. 40° to C.A. 113.4-113.5 granitic vein 10cm wide.									

DRILL LOG - 81

Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 16 of 44		
Lat.		Elev.		Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
112.76	116.78	95%	CONTINUED:				115.64m bedding 47° to C.A. 116.68m thin calcite healed fractures 15° to C.A.		1% Po/Py		74625	1.13m				
116.78	117.91	95%	SILICIFIED AGGLOMERATE & LAPILLI TUFF. As described 108-108.96 m. Much chloritization - especially along fractures. Minor brecciation.				116.78m-117.08m chalcedonic vein at 10° to C.A. with blebs Po/Py									
							117.3m numerous chloritic fract. 30° to C.A. 117.52m: chloritic fract. 74° to C.A. with Po/Py		2% Po/Py Tr. Aspy		74625	1.13m				
117.91	119.25	95%	INTERBEDDED SILICIFIED LAPILLI TUFFS & AGGLOMERATES. As described 108-108.96 sulphides as dissem. blebs of Py-Po-Aspy.				118.62-118.71m granitic vein 42° to C.A. some irreg. chlorite Tr. Aspy.		1-2% Po/Py		24522	1.34m				
119.25	120.73	95%	INTERBEDDED SILICIFIED LAPILLI TUFFS & AGGLOMERATES. As described 108-108.96m. Increasing Aspy in small blebs, often associated with fractures & combined with Po - Py				119.95m bedding is 54° to C.A. For 20cm each side of this is									

DRILL LOG - 81

a chloritic calcite healed fract. Date \_\_\_\_\_ Logged By \_\_\_\_\_

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				
Lot.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Sheet 17 of 44		
Dep.		Length		Bearing										HOLE No. LH-86-6		
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
119.25	120.73	95%	CONTININUED:				0° to C.A. At 120.35m some chloritic fractcs with Po ± Aspy.		3% Po + Aspy 1% Py		76926	1.48 m				
120.73	121.65	98%	SILICIFIED INTERMEDIATE TUFF. Grey-green with biotite altered to chlorite. Aspy occurs as blebs, disseminated & along chlorite fractures with Py & Po A.C.A. of fractures is 10-15°. 398.5-399 - increase in silicification with 2-3% Aspy, Py & Po						1-2% Aspy Po/Py		30043					
121.65	122.41	98%	SILICIFIED INTERMEDIATE TUFF. Mottled green, grey brown, contains 1-2% Lap. size fragments. Biotite alt. to chlorite. Aspy along with Py + Po occurs as blebs & finely disseminated.						1% Aspy Py/Po		30044					
122.41	122.87		QUARTZ? OR HIGHLY SILICIFIED TUFF. Highly fractured with mosaic of Aspy, Po, Py veinlets. Similar to 219.6-222.4. 403 - 1cm wide green finely banded zone paralleling & forming lower contact @ 50° to C.A.						15% Aspy Py/Po		30045					
			401.5 - sharp irregular contact due to offsetting by fractures. May be @ 50° to C.A. Fine bands of Aspy @ 60° to C.A. in the Q.V. are cut by lower contact.													
122.87	124.32	98%	SILICIFIED LAPILLI TUFFS WITH MINOR AGGLOMERATES. Greenish grey mottled to patchy to irregularly banded dark greenish due to chlorite, occasional fracturing core very competent. Slightly carbonaceous.				Contact at 6° to C.A. F.G. tuff lapilli tuff bedding here is 43°. Bedding at 124.04=47° to C.A.		2% Po/Py Tr. Aspy		24523	1.45 m				



**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 18 of 44	
Lot.		Elev.		Dip		RECORDED		CORRECTED		Lot.		Elev.		Dip	
Dep.		Length		Bearing						Dep.		Length		Bearing	
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
124.32	125.63	100%	<p><b>SILICIFIED INTERBEDDED AGGLOMERATE &amp; LAPILLI TUFF.</b>                      From 124.71-124.91m brecciated. Highly silicified &amp; calcareous. Sulphides 8% in this zone (3/4 Po, 1/4 Py) Po+Py equal overall, blotchy &amp; patchy, often tending to parallel chloritic zones in bedding.</p>			Calcite healed fracturing at 37° to C.A. at 125.19m.		5-8% Po/Py		76927	1/31 m				
125.63	126.37	85%	<p><b>SILICIFIED INTERBEDDED MINOR TUFF TO AGGLOMERATE.</b>                      Fractures often rusty, at 125.9m a calcite vug with rosette xtls. at least 5cm across. Core very fract. From 125.91 band of 3-4cm wide calcite healed breccia at 19° to C.A., and another cutting into this one at 3° to C.A. Medium greenish with some darker chloritic zones &amp; thin bands parallel to bedding. Some thin calcite healed fractures &amp; irreg. veins. Somewhat mottled appearance.</p>			Some calcite healed fractures at 5° to C.A. at 125.95m.		2-3% Po/Py +Aspy		76928	0.74 m				
126.37	127.44	80%	<p><b>SILICIFIED TUFF AND MINOR AGGLOMERATE.</b> As described from 125.63-126.37m. Rusty fractures occasionally core very broken 126.83-127.44m. At 127.25m another small calcite vug (may be from 25.91m adjacent in box) core locally altered &amp; very chloritic &amp; light green.</p>			At 126.56m chalcidonic & calcite healed fract. at 32° to C.A.		3-4% Po/Py Aspy		76929	1.07 m				
127.44	128.7	80%	<p><b>SILICIFIED TUFF WITH MINOR LAPILLI TUFF.</b> Medium dark greenish, mottled appearance core broken locally. Some rusty fractures sulphides dissem. &amp; associated with fractures and veins</p>			At 128.34 chalcidonic vein at 52° to C.A.		3-4% Po/Py Aspy		76930	1.26 m				

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No.		N.T.S. No.						
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES								
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Lat.		Elev.		Dip		
Dep.		Length		Bearing										Dep.		Length		Bearing		
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS							
128.7	129.88	98%	SILICIFIED INTERBEDDED TUFFS AND AGGLOMERATES. As described 125.63-126.37m. Some rusty fractures locally. Sulphides disseminated to blotchy, assoc. with fractures.				128.76 chalcedonic vein at 45° to C.A. At 129.01 Po healed		3-4% Po/Py Aspy		76931	1.18 m								
							fracture 65° to C.A. Some calcite veining here at 15° to C.A.													
129.88	131.56	98%	SILICIFIED INTERBEDDED TUFFS, LAPILLI TUFFS AND AGGLOMERATES. As described 125.63-126.37 m. Minor rusty fracturing mostly at 5° to C.A.				At 130.64m calcite vein 33° to C.A. 131.31m lcm wide granitic				76932	1.68 m								
							vein 80° to C.A. bedding 52° to C.A. 131.43m													
							131.9m granitic vein lcm wide 62° to C.A.													
131.56	131.97	100%	GRANITE White with mottled black biotite ± pyroxene. Disseminated Py & some specks molybdenum.						1%Py Trace Mo		76933	0.41 m								
131.97	133.82	100%	SILICIFIED INTERBEDDED TUFFS, LAPILLI TUFFS AND AGGLOMERATES. As described 125.63-126.37m. Sulphides 5% in more silicified zones and usually associated with fractures.				133.05m altered & chloritic vein 35° to C.A. 133.35m qtz.		4% Po/Py 1%		76934	1.85 m								
							calcite healed fract. 46° to C.A.		Aspy.											

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Sheet 20 of 44		
Dep.		Length		Bearing										HOLE No.		
														LH-86-6		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
133.82	135.98	100%	SILICIFIED INTERBEDDED TUFFS LAPILLI TUFFS AND AGGLOMERATES. As described 125.63-126.37m. Granitic vein irregular top contact starts at 134.38m ends at 134.89m where contact is 68° to C.A. Vein 2% Py/Po			At 134.22m chalcidonic vein at 17° to C.A. Bedding/contact as		3% Po/Py Aspy		24524	2.16					
			Between 135.52 & 135.72 lapilli tuff is somewhat silicic altered and chloritic.			135.52 from tuff to lapilli tuff 37° to C.A.										
						Chalcedonic + calcitic vein at 135.72m=36° to C.A.										
135.98	137.0	100%	SILICIFIED LAPILLI TUFFS AND AGGLOMERATES. As described 125.63 - 126.37 m			At 135.35m chalcidonic calcitic vein 29° to C.A.		3%		76935	1.02					
137.0	137.56	100%	SILICIFIED LAPILLI TUFFS & AGGLOMERATES. As described 125.63-126.37m. Chalcedonic veining common as are some sub-parallel fractures at 0-5° to C.A. Healed with chlorite and Po/Py/Aspy.			At 137.22-137.56 are 5 parallel chalcidonic + calcite veins @ 32° to C.A.		5%		76936	0.56					
137.56	143.28	98%	SILICIFIED INTERBEDDED TUFFS & AGGLOMERATES. As described 125.63-126.37m. Same parallel fracturing around 140.4 - here is 25° to C.A. Slight alteration around these (3 main ones).			At 137.73m fracture healed with chlorite + Po/Py at 36° to C.A.		2-4% Po/Py +Aspy		137.56-139.45 24525 139.45-141.45 24526	1.94 m 1.94 m 2.0 m					
143.28	144.06	98%	SILICIFIED & OFTEN ALTERED LAPILLI TUFFS & AGGLOMERATE As described 107.9-108.0m - some unaltered minor sections. As described 125.63-126.37m light green alteration for 1/2cm around fract. which are often chalcidonic and calcitic.			143.66m altera. begins at 38° to C.A. Parallel chalcidonic vein				141.45-143.28 24527 76937	1.83 m 0.78 m					
						143.67m . 143.77m another altered.										

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 21 of 44		
Lat.		Elev.		Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip		HOLE No.
Dep.		Length		Bearing						Dep.		Length		Bearing		LH-86-6
From	To	Recovery	Description			Structure			% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
144.06	144.7	98%	LAPILLI TUFF Mottled gry/brn/white. Comprised of white siliceous angular to sub-rounded frags. from 1mm-5mm, Av. 4mm within a gry/brn. fine grained matrix which has pervasive biotite & to a lesser extent chlorite alteration.			Chalcedonic fr. @ 20° to C.A. - a couple parallel ones past this also.			Po/Py 1%		24528	0.64 m				
144.7	144.82	98%	BLEACHED ZONE As described 144.06-144.7m but bleached to a pale brown/green colour.			Fr's. @ 70° to C.A.			0		24529	0.42 m				
144.82	144.97	40%	BLEACHED ZONE As described 144.7-144.82m (above), but only 40% recovery						0							
144.97	145.12	80%	LAPILLI TUFF As described 144.06-144.7m Ground Core. Last 5cm, bedded Po/Py @ 50° to C.A.													
145.12	145.95	100%	LAPILLI TUFF (SWITCH TO BO CORE. As described 144.06-144.7 m. Contains bedded Po/Py @ 35° ACA. Very comp. core			Beds @ 35° ACA 145.7-calcite veinlet 1-2mm @ 35° ACA			3-4% Po/Py		76938	0.83 m				
145.95	146.0	98%	QUARTZ VEIN WITH Aspy. Quartz veins 3 cm true width @ 50° ACA. 10-15% Aspy over 3 cm. Very comp. core.			Quartz vein @ 50° ACA			Aspy 10-15%		76939	0.05 m				
146.0	147.6	98%	LAPILLI TUFF As described 144.06-144.7m Very comp. core. Finely disseminated Po/Py 1-2%, with bolated specks of Aspy.			Sil. veinlet @ 15° ACA. 147.5m minor chlorite fr. @ 10° ACA.										

DRILL LOG - 81

146.4m - 1mm calc-sil veinlet @ 150°

Date \_\_\_\_\_ Logged By \_\_\_\_\_

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES					
							RECORDED	CORRECTED	RECORDED	CORRECTED					Sheet 22 of 44	
Lot.		Elev.		Dip						Lot.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description				Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
147.7	148.7	98%	LAPILLI TUFF As described 144.06-144.7m Contains 1-3mm irregular chlorite. Fracture with Aspy + Po running sub-parallel to C.A.					Po/Py 1-3% Aspy 2-3%		76941	0.37 m					
148.7	149.57	98%	LAPILLI TUFF As described 144.06-144.7m but with increased silicification & mineralization. Bedded Po/Py.				Bedded Po/Py @ 45°ACA 150.17m Fr. 30° ACA.	Po/Py 2-5% Tr. Aspy		76942	1.5 m					
149.57	153.0	90%	LAPILLI TUFF As described 144.06 - 144.7 m.				150.24m bleached zone with calc- sil veinlets @ 30° ACA.	Po/Py 1%		149.57-151.22 24530 1.65 m 151.22-153.0 24531 1.78 m						
153.0	154.5	98%	LAPILLI TUFF As described 144.06 - 144.7 m.				151.3m - 1-2mm calc-sil vein- lets @ 10°ACA to sub-parallel	Po/Py		76943	1.5 m					
							152.1m - 1-2mm calc-sil vein- lets @ 10°ACA. Also Fr. @ 30°ACA									
							154.0m - 1-2mm calc-sil veinlet @ 25°ACA. 154.2- 1-2mm calc-sil									
							veinlet @ 30°ACA opposite direction from one above.									
154.5	155.42	98%	LAPILLI TUFF As described 144.06 - 144.7 m, but altered & bleached to a pale green to pale brown. Alteration parallels calc-sil veinlets.				Contains numerous 1-3mm calc-sil veinlets @ 40° ACA. Fr's. @ 60° ACA	Po/Py 1%		76944	0.98 m					

DRILL LOG - 81

at same & opposite  
direction of veinlets. \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 23 of 44		
Lat.		Elev.		Dip		RECORDED		CORRECTED		Lat.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
155.42	155.85	100%	LAPILLI TUFF WITH MASSIVE Aspy VEIN. As described 144.06-144.7 m. but with increased alteration. Vein @ 3° to C.A. 3cm true width. Vein comprised of 70% Aspy xtals (frags?) from 1mm to 4mm. Av. 3mm. Zone also contains 5-10% Po/Py as xtal aggregates. Matrix of brown intermediate tuff.			3cm Aspy vein @ 3° ACA		Aspy 70% Po/Py 5-10%		76945	0.43 m					
155.85	156.35	100%	SILICIFIED LAPILLI TUFF WITH MINOR AGGLOMERATE. Very hard mottled whitish overall is purplish to greenish brown-gry. Occasional paler, highly siliceous agglomerate clasts 1-4cm across. Remainder of clasts usually .5-2mm but often to 5-10mm. Much biotite; locally chlorite, occasional thin calcitic and/or chalcedonic. Veinlet 6.5mm. Fractures usually chlorite healed, occasionally with Po/Py or Aspy. Local minor pale alteration,			Fract. 3° to C.A. down length of interval, healed with chlorite + Po/Py & Aspy/		4%Po 1%Py Trace Aspy		76946	0.5 m					
156.35	157.32	100%	SILIC. LAPILLI TUFF WITH MINOR AGGLOMERATE. As described 155.85 to 156.35 m. From 157.19 - granitic vein at 56° to C.A.			Fract. at 156.45 healed with chlorite + Po/Py at 30° to C.A.		4%Po 1%Py Tr. Aspy		76947	0.97 m					
157.32	158.33	100%	SILIC. LAPILLI TUFF WITH MINOR AGGLOMERATE. As described 155.85 to 156.35 m.			57.87m 2mm wide fract. 30° to C.A. Healed with chlorite + massive Aspy & minor Po/Py		2%Po 1%Py 1%Aspy		76948	1.01 m					

NORANDA EXPLORATION COMPANY LTD.

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No.		N.T.S. No.						
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES								
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Lat.		Elev.		Dip		
Dep.		Length		Bearing										Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS								
158.33	158.65	90%	SILIC. LAPILLI TUFF WITH MINOR AGGLOMERATE. As described 155.85 to 156.35m. 158.42 to 158.6m many parallel barren chaledonic veins at 56° to C.A. 158.65-158.8m core altered, soft & pale greenish.			Chlorite/Po healed fract. 0° thru length of sample. Py+Aspy dissem. also.		6%Po 1%Py 1%Aspy		76949	0.32 m									
158.65	159.76	90%	SILIC. LAPILLI TUFF WITH MINOR AGGLOMERATE. As described 155.85 to 156.35m. 158.65 to 158.8 m Core altered, soft, pale greenish to locally purplish.			158.75m-calc-sil vein at 47° to C.A. 159.15m - chlor/Po healed fract. 37° C.A. 159.23m an off-set Po/chlor. healed fract. 32° to C.A. off-set by fract. 47° to C.A.														
159.76	161.0	90%	SILIC. LAPILLI TUFF WITH MINOR AGGLOMERATE. As described 155.85 to 156.35m. Local pale alteration chaledonic veining here 50 & 70° to C.A. at 160.11m.					3%Po 1%Py Tr. Aspy		66276	1.24 m									
161.0	161.91	98%	SILICIFIED INTERBEDDED LAPILLI TUFF & AGGLOMERATE. As described for 155.85-156.35m, but with inter-bedded finer grained tuffs. Sulphides disseminated and locally associated with fractures. Also locally in blebs to patchy irregular sulphides are greatest in the paler whitish, silicified zones. Some highly silicified zones in the interval especially from 161.55 - 161.91 m.			Fracts. in silicified zone between 161.55 to 161.91 with massive blebs of Aspy & Po. 54-60° irreg. also.		3-4% Aspy 3-4% Po 1%Py		66277	0.91 m									

**NORANDA EXPLORATION COMPANY LTD.**

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 25 of 44		
Lot.		Elev.		Dip		RECORDED		CORRECTED		Lot.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
161.91	162.6	100%	SILICIFIED INTERBEDDED TUFFS, LAPILLI TUFFS. AGGLOM. As described 161.0 - 161.91			162.36m Good bedding 40° to C.A.		3%Po 1%Py 1%Aspy		66278	0.69					
162.6	163.17	98%	SILICIFIED INTERBED. TUFF AGGLOMERATE. As described 161.0-161.91m. Locally some paler alteration around some fractures, with calc-sil healing (at 162.98m) is 70° to C.A. Numerous fractures healed with blebs of Aspy & Po			162.64-162.74 many parallel Aspy + Po healed fract. at 50° to C.A. Another 20° to C.A. at 63.1 m.		3% Aspy 3%Po 1%Py		66279	0.57 m					
163.17	163.9	95%	SILIC. INTERBED. TUFF. LAPILLI TUFF. AGGLOM. As described 161.0-161.91 m.			163.31 - 1/2cm wide calc-sil healed fract. 70° to C.A.		2%Po 1%Py Tr. Aspy		66280	0.73 m					
163.9	165.4	100%	SILIC. INTERBED. TUFF, & AGGLOMERATES. As described 161.0-161.91 m. From 165.12 - 165.24 good parallel contacts bounding lapilli tuff. Contacts both 50° to C.A.					3-4%Po 1%Aspy 1%Py		66281	1.5 m					
165.4	166.22	100%	SILIC. INTERBED. TUFF. LAPILLI TUFF & AGGLOMERATE As described 161.0-161.91 m. Patchy sulphides mainly Po.			166.12m middle og 5cm wide band intense Po healed fract. @ 50°C.A.		5%Po 1%Aspy 1%Py		66282	1.87 m					
166.27	166.48		SILIC. INTERBED TUFF LAPILLI TUFF & AGGLOMERATE. As described 161.0-161.91m. Occasional parallel chalcadonic veinlet 5mm wide at 80° to C.A.			At 166.36m Bedding is 70° to C.A.		2%Po 1%Py 1%Aspy		66283	1.21 m					



**NORANDA EXPLORATION COMPANY LTD.**

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				
Lot.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Sheet 26 of 44		
Dep.		Length		Bearing										HOLE No. LH-86-6		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
167.48	167.77	100%	<p><b>SILIC. INTERBEDDED TUFF LAPILLI TUFF &amp; AGGLOMERATE.</b> As described 161-161.91m Contains 3 highly silicified zones with massive arsenopyrite &amp; pyrrhotite + minor pyrites - occur as irregular blotches - almost vein-like. Contact edges of blotches are sometimes straight at 50° to C.A. 1-3cm wide (vary in width) Located at 167.51m, 167.64m, and 167.73m.</p>			Aspy healed fractures 50° to C.A. at 167.51m.		8% Aspy 3%Po 2%Py		66284	0.29 m					
167.77	168.78	100%	<p><b>SILICIFIED TUFF</b> As described for 161 - 161.91 m without lapilli tuffs or agglomerates Chloritic/? healed fractures at 0° to C.A. mid-section. This interval tuffs appear often more streaky than mottled due to alignment of chlorite + biotite xtls.</p>			167.96m chlorite/ Po healed fract. 58° to C.A. At 168.29 Po diss. parallel to bedding at 65° to C.A. 168.47m 2mm wide chalcedonic vein at 70° C.A.		2%Po 1%Py		66285	1.10 m					
168.78	169.6	98%	<p><b>SILICIFIED TUFF.</b> As described for 161-161.91 m without lapilli tuffs or agglomerates.</p>			At 169.4m 3mm wide chalcedonic vein at 59° C.A. with blebs of Py		2%Po 1%Py 1%Aspy		66286	0.82 m					
169.6	170.7	98%	<p><b>SILICIFIED TUFF, LAPILLI TUFF &amp; AGGLOMERATE.</b> As described 161.0-161.91m. Occasional chloritic fracture, sometimes with Po.</p>			Bedding contact tuff to lapilli tuff at 169.6m @ 59° to C.A. At 170.06m fract. 56° to C.A. and a few parallel ones close by.				66287	1.1 m					

DRILL LOG - 41

Chlorite & Po healed.

Date \_\_\_\_\_ Logged By \_\_\_\_\_

**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 27 of 44	
Lot.	Elev.	Dip					RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.	Elev.	Dip	HOLE No. LH-86-6		
Dep.	Length	Bearing								Dep.	Length	Bearing				
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS					
170.7	170.76		SILICIFIED LAPILLI TUFF As described 161-161.91 m Highly silicified zone with massive Aspy xtl. blebs; chloritic also. Recovery 98%.			12° fracture off-sets irreg. band of Aspy + chlorite + Po 60° C.A.	10% Aspy 3%Po 1%Py		66288	0.06 m						
170.76	171.65	98%	SILICIFIED TUFF, LAPILLI TUFF WITH MINOR AGGLOM. As described 161-161.91 m.			170.93m fracturing 54° to C.A. Chlorite + Po healed.	2%Po 1%Py Tr. Aspy		66289	0.89 m						
171.65	172.49	98%	SILICIFIED AND ALTERED TUFF & LAPILLI TUFF WITH MINOR AGGLOMERATE. As described 161.0-161.91m but with some minor to moderate softer alteration common thru-out, especially at fractures, which are usually calcite healed. Chlorite/Po healed fracture at 171.93 m is 58° to C.A.			172,22m a 1cm wide calcite vein parallel to common 1mm wide fract. is 46° to C.A. - appears to cross-cut bedding.	2% Po/Py Tr. Aspy to 1%		66290	0.84 m						
172.49	173.27	100%	SILICIFIED TUFF & LAPILLI TUFF WITH MINOR AGGLOM. As 161-161.91m. Core locally appears often more streaky than mottled due to alignment of chlorite & biotite. 172.62m chlorite bands at 42° C.A. Blebs Po/Aspy.			173.14m 2 fract. intersect both chlorite healed with minor diss Po/Aspy.	3% Po/Py 2% Aspy		66291	0.78 m						
173.27	174.7		SILICIFIED TUFF, LAPILLI TUFF WITH MINOR AGGLOM. As described from 172.49 - 173.27 m.			Intersecting mineralized Fr. at 173.74m. Po/Aspy only on up side of "X".	2-3% Po/Py 1%Aspy		66292	1.43 m						

**NORANDA EXPLORATION COMPANY LTD.**

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 28 of 44	
Lat.		Elev.		Dip		RECORDED		CORRECTED		Lat.		Elev.		Dip	
Dep.		Length		Bearing		RECORDED		CORRECTED		Dep.		Length		Bearing	
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
175.91	177.98	98%	<p><b>SILICIFIED &amp; ALTERED TUFF &amp; LAPILLI TUFF WITH MINOR AGGLOMERATE.</b> As described 171.65 - 172.49m. Blotchy pale green areas ½ to 1cm thick calcite vein (with minor chalcedony) at 0-3° to C.A. running thru-out core from 176.2 - 176.5, and 177.2 - 177.62m (may be the same fracture).</p>			<p>176,12m fracturing common at 25° to C.A. - calcite healed.</p>		1-2% Po/Py		66294	2.07 m				
						<p>176.48m 2mm wide chlor/Po healed fract. at 27° to C.A.</p>		Tr. Aspy							
177.98	180.0	100%	<p><b>TUFF</b> Mottled purply-brown/dark green/white. Comprised of siliceous angular to sub-rounded frags. Av. 3mm within a fine-grained intermediate matrix with pervasive biotite &amp; chlorite alteration. Frags. comprise from 20-40% of core. Contains 1% Po + Py + trace Aspy as disseminations and fracture fillings. Very competent core.</p>			<p>179.0m minor chloritiz. Fr. with Po @ 35° ACA crosscut by a 2nd fract. in the opposite direction @ 5° ACA at 40° between</p>		1% Po/Py Tr. Aspy		24532	2.02 m				
180.0	181.5	100%	<p><b>TUFF</b> As described 177.98 m - 180.0 m.</p>			<p>the two 180.5m Fr. @ 45° ACA with parallel Po veinlet. 180.0m</p>		1% Po + Py Tr. Aspy		66295	1.5 m				
						<p>bleached crumbly Fr. @ 5%ACA with calc-sil veinlets. 181.2m minor Fr. @ 45°ACA. 181.3m</p>									
						<p>minor Fr. @ 60° ACA. 181.5m Fr. with calc-sil @ 20°ACA.</p>									

NORANDA EXPLORATION COMPANY LTD.

Date Colored			Date Completed			Core Size			DIP TESTS				PROPERTY		L.H.		PROJECT No. 135		N.T.S. No.			
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES						Sheet 29 of 44				
Lot.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Lot.		Elev.		Dip		HOLE No.		
Dep.		Length		Bearing										Dep.		Length		Bearing		LH-86-6		
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS									
181.5	183.0	100%	TUFF WITH MINOR LAPILLI FRAGS. As described 177.98 - 180.0 m				182m - 1mm calcite veinlets irregular orientation. 182.5m		Po/Py 1-2% Trace		66296	1.5 m										
							Fr. with calc-sil healing @ 50°ACA. 182.6m bedded Po @ 50°		Aspy													
							ACA. 183.2m Fr. with slickensides @ 25° ACA.															
183.0	185.0	100%	LAPILLI TUFF As described 177.93 - 180.0 m but with lapilli size frags. - increased silicification.				184.3, - minor Fr. @ 35°ACA. 184.4m - chloritization sil.		Po/Py 1-2% Trace		66297	2.0 m										
							Fr. @ 15°ACA. minor chlorite Fr. parallel to C.A. 185.1m		Aspy													
185.0	186.0	97%	LAPILLI TUFF As described 177.98 - 180.0 m but with lapilli size siliceous frags. Increased silicification.				chloritiz. sil. Fr. @ 70°ACA. 185.6m Calc-sil healed Fr. @ 80°ACA. 185.7m															
							minor Fr. @ 25° ACA.															

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES			
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Sheet 30 of 44	
Dep.		Length		Bearing										HOLE No. LH-86-6	
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
186.0	187.5	100%	LAPILLI TUFF As described 177.98 - 180.0 m but with lapilli size frags and increasing silicification.			186.3m minor Fr. @ 45°ACA with a cross-cutting silicified Fr. @ 65°ACA in opposite direction. 187.2m major bleached	1-2% Po/Py Tr. Aspy		66299	1.5 m					
						Fr. with calc-sil "muck" @ 45°ACA. 187.4m minor Fr. @ 15°ACA.									
187.5	189.0	100%	LAPILLI TUFF As described 177.98 - 180.0 m but with lapilli size frags. and increased silicification.			188.1m Sil-chlor. Fr. @ 50°ACA	1% Po/Py Tr. Aspy		66300	1.5 m					
189.0	190.5	100%	LAPILLI TUFF As 177.98 - 180.0 m. with lapilli size frags and increased silicification.			189.6m chloritized silicified Fr. @ 50°ACA. 189.75m siliceous chloriz. Fr. @ 50°ACA. 190.15m minor Fr @ 25°ACA. 190.4m	2-4% Po/Py Tr. Aspy		66302	1.5 m					
						MAJOR chloritic Fr. @ 30°ACA with Po.									
190.5	192.0	100%	LAPILLI TUFF As described 177.98 - 180.0 m with lapilli size frags. Increased silicification and chloritization.			190.7m MAJOR chloritic-sil Fr's with Po @ 10°ACA	3-5% Po/Py Tr. Aspy		66302	1.5 m					

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Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.			
FIELD CO-ORDINATES						DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 31 of 44		
Lat.		Elev.		Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip		HOLE No. LH-86-6
Dep.		Length		Bearing						Dep.		Length		Bearing			
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
192.0	193.5	100%	LAPILLI TUFF As 177.98 - 180.0 m. with lapilli size frags and Sil.				192.2m VERY predominantly Fr. quartz flooded & intensely chloritized with Po/Py @ 20°ACA.		3-5% Po+Py Tr.		66303	1.5 m					
							192.5m Sil-chloritized Fr. @ 65°		Aspy								
							ACA. 192.8m PROMINENT Fr.-chl+sil + Po @ 33°ACA										
193.5	195.0	100%	LAPILLI TUFF As 177.98 - 180.0 m.						1-3% Po/Py Tr. Aspy		66304	1.5 m					
195.0	196.5	100%	LAPILLI TUFF As described 177.98-180.0m Slightly silicified - occasionally more silicified & within these zones highly chlorite with increased sulphides. Occasional chlorite/Po/Py healed thin Fr. often parallel to the aligned mica in the core, giving it a sometimes streaky appearance. Silicified zone usually 5cm wide, and Po/Py 5-8% here. Sulphides disseminated or as fracture fillings.				At 195.59m chloritic Pyr healed fracture 59° to C.A.		1-3% Po/Py		66305	1.5 m					
196.5	197.63	100%	LAPILLI TUFF WITH MINOR AGGLOMERATES. Exactly as for 195-196.5 m. Thin calcite-silic. veins (5mm). Rare (1-2 per 1.5 m interval)				196.69m some parallel fracturing at 62° to C.A. chlor/Po/Py healed. Same at 197.06m but at 36° to C.A. From 197.49-51m alt.		1-3% Po/Py		66306	1.13m					

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brecciated Fractured.

Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 32 of 44			
Lat.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip		HOLE No. LH-86-6			
Dep.	Length	Bearing						Dep.	Length	Bearing						
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
97.63	199.85	100%	LAPILLI TUFF WITH MINOR AGGLOMERATE. As for 195.0 m to 196.5 m.						1-2% Po/Py		24533	2.22 m				
99.85	201.38	100%	LAPILLI TUFF WITH MINOR AGGLOMERATE. As for 195.0 - 196.5 m.				Frag. at 200.19m with chlor+Po/Py at 62° to C.A. ½ cm chlor/Po/Py		1-2% Po/Py		66307	1.53 m				
							healed fract. at 201.05m is 68° to C.A.									
201.38	202.13	100%	LAPILLI TUFF As for 195.0-196.5 m but with 3 distinct highly silicified & chloritized zones with 5-8% disseminated Po/Py. Chlorite forms thin bands, locally irreg. & highly fractured.				Silic-Chlor. band 201.57m to 201.6 at 67° to C.A. at 201.97m chor. band is 49° to C.A. At 202.06m end of silic. zone & bedding is 64° to C.A.		3% Po/Py		66308	0.75 m				
202.13	203.25	98%	TUFF Fine grained, unsilicified, purplish brown-mottled whitish frags usually .5mm. 203.1-203.25m increasingly altered to an aphanitic purplish tuff.				202.31-3cm wide silic. chloritic brecciated zone with 1-2% Py 35° to C.A.		1% Po/Py		66309	1.12 m				

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Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES						DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		Sheet 33 of 44		
Dep.		Length		Bearing						Lot.		Elev.		Dip		
										Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
203.25	203.43	95%	ALTERED TUFF Pale to med. green aphanitic altered tuff with some parallel chalcedonic banding, occasionally rusty with minor dissem. Po/Py & cross-cut by irreg. thin calcite veining.			203.36m chalcedonic banding 43° to C.A.		1-2% Po/Py		66310	0.18 m					
203.43	205.34	95%	TUFF. As for 202.13-203.25m. 203.43 - 203.6 is altered aphanitic pale green minor gouge at 203.6m shear is 64° to C.A. ½cm wide local very minor silicification & altered bands 5cm wide & uncommon.					1% Po/Py		24534	1.91 m					
205.34	208.16	90%	TUFF/LAPILLI TUFF As 177.98-180.0m. Local silicification/chloritization & local alteration. Zones usually 5-8cm wide in irregular bands, typically 40-50° to C.A.			206.22m intersecting Fr. at 30° & 48° to C.A. common here.		1-2% Po/Py		205.34-206.76 24535 1.42 m 206.76-208.16 24536 1.4 m						
208.16	209.09	98%	ALTERED TUFF As 203.25-203.43m Occasional purplish zone, occasional zone with Po dissem. up to 5% over a few cm. Breccia zone 208.77-208.86m locally rusty bands 1cm & chalcedonic veining with disseminated Po banding and veins in this zone 65° to C.A.			208.23m rusty fract. with numerous close parallel calc-sil veinlets all 60° to C.A. 208.46m bedding is 67° to C.A.		2-4% Po/Py		66311	0.93 m					
						beneath this Po dissem. to 5% for 5 cm.										
209.09	211.09	95%	TUFF AND LAPILLI TUFF As for 177.98 - 180.0 m.			At 210.58m bedding is 56° to C.A.		1-3% Po/Py		66312	2.0 m					
211.09	212.26	97%	TUFF AND LAPILLI TUFF As for 177.98 - 180.0 m. Local minor silicified zones.					2-4% Po/Py		66313	1.17 m					

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Date \_\_\_\_\_ Logged By \_\_\_\_\_



**NORANDA EXPLORATION COMPANY LTD.**

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 34 of 44			
Lat.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip	HOLE No.				
Dep.	Length	Bearing						Dep.	Length	Bearing	LH-86-6					
From	To	Recovery	Description				Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
212.26	212.55	100%	GRANITIC VEIN WITHIN LAPILLI TUFF. Vein is irreg. 1-3cm wide, begins at 45° to C.A. then offshoots down core at about 3° to C.A. Moly dissem. 1%. Vein is coarse grained.						1% Mo 1% Po/Py		66314	0.29 m				
212.55	213.75	90%	SILIC TUFF WITH MINOR LAPILLI TUFF AND MINOR AGGLOM. As for 161.0-161.91m. Core 20% cement coated this section. Silicified throughout.				213.38m intersected fracture with chlorite + Po/Py dissem. at 43 & 60° to C.A.		2-4% Po/Py		66315	1.2 m				
							213.51m fract. with chlor+Po/Py is 22° to C.A.		2-4% Po/Py							
							Another parallel same, 2cm down.									
213.75	215.39	98%	SILICIFIED TUFF & LAPILLI TUFF WITH MINOR AGGLOM. As 161.0-161.91m local, paler greenish altered bands 10cm wide, one starting at 214.32 with 8% Po/Py for 5-10cm (irreg. numerous irreg. chlor+Po+Py fract. 10-25° to C.A.				213.89m chlorite + Po/Py healed fract. is 24° to C.A. Another of same at 214.23m is 14° to C.A.		2-4% Po/Py		66316	1.64 m				
215.39	215.57	95%	GRANITE VEIN Coarse grained upper contact irregular, at 30-50° to C.A. Lower contact sharp at 33° to C.A. Trace to 1% visible moly. - sporadic not common.				Contact at 215.57 is 33° to C.A.		1% Mo 1% Py/Po		66317	0.18 m				
215.57	216.07	100%	TUFF As 177.98 - 180.0 m. Much silicification & chloritization. Highly fractured chlorite healed at all angles between 30-70°. Competent core.						1% Po/Py		66318	0.5 m				

**NORANDA EXPLORATION COMPANY LTD.**

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY L.H.		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 35 of 44		
Lat.		Elev.		Dip		RECORDED		CORRECTED		Lat.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
216.07	216.95	95%	GRANITE VEIN Coarse grained 1% visible moly blebs disseminated 0.5 to 2mm max., is sporadic and not common.			Upper contact of vein at 216.07m is 54° to C.A. Lower contact irreg., but generally 25° to C.A.		1% Mo 1% Po/Py		66319	0.88 m					
216.95	217.92		HIGHLY SILICIFIED & CHLORITIZED TUFF. Whole interval like silic/chlor. zones described for 201.38-202.13m. Thin chloritic bands & fract. and thick whitish silic zones very irreg. and locally brecciated. Core looks patchy, with silic zones 3-7 cm across.					1% Po Tr.Py		66320	0.97 m					
217.92	218.83	65%	GRANODIORITE DYKE No visible sulphides			Good contacts @ 50° to C.A.		0		24176	0.92 m					
218.83	220.2	98%	TUFF Brown-slightly mottled in places to a med. green/white/pink. Fine grained. Pervasive biotite alter. with lesser chlorite alter. Mod. comp. core. Possible bedding as deferred by alteration patterns @ 60° ACA.			Prominent Fr's. @ 40° ACA. Bedding 60° ACA.		1% Po/Py		24177	1.37 m					
220.2	221.55	98%	TUFF As described 218.83 - 220.2 m with increased alteration					1% Po/Py		24178	1.35 m					

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 36 of 44		
Lot.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip		HOLE No.		
Dep.	Length	Bearing						Dep.	Length	Bearing		LH-86-6			
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS			
221.55	222.3	98%	EXTREMELY ALTERED TUFF A mosaic of brown/medium green/pin-white blotches & veinlets. Dominant alteration direction - possibly representing bedding @ 35-40° ACA. Po/Py as fracture filling to alteration.			Possible bedding @ 35-40° ACA. Fr's with Po/Py @ 35-40°		1% Po/Py		24179	0.75 m				
222.3	223.7	98%	EXTREMELY ALTERED TUFF As 221.55 - 222.3 m with increased silicification. Dominant alteration direction @ 70° ACA.					1% Po/Py		24180	1.4 m				
223.7	224.39	98%	EXTREMELY ALTERED & SILICIFIED TUFF. As 222.3 - 223.7 m. Bottom 10cm 40% Po/Py @ 25° ACA Po/Py as disseminate and fractures fillings @ 25° ACA.			Po/Py 25° ACA		10-15% Po/Py		24181	0.69 m				
224.39	225.7	98%	EXTREMELY ALTERED TUFF Not as silicified as 223.7 - 224.39m but otherwise same description. Po/Py as xtal. aggregates.			Fr. 40° ACA		1% Po/Py		24182	1.31 m				
225.7	226.1	100%	CRACKLE BRECCIA Extremely silicified frags. 1-3cm - healed by chlorite. Frags. have not been displaced. Difficult to determine orientation, but possibly @ 65°ACA. Bottom 10cm lack clasts but rather is totally silicified.			65° ACA. Fr's. @ 33° ACA.		1% Po/Py		24183	0.4 m				
226.1	226.25	100%	GRANODIORITE DYKE Med. grained 25% mafics, 5% Po as isolated xtals & xtal aggregates. True width 9 cm.			Good contacts @ 42° ACA		5% Po		24184	0.15 m				
226.25	227.44	100%	EXTREMELY SILICIFIED & BLEACHED TUFF. Differs from 221.55-222.3m in that it has less of a mosaic of alteration, but rather more intense silicification particularly the top of 0.4m. Dominantly white/pink (potassic alteration) with lesser green chloritization as patches & veinlets. From 226.8-227.6m is a 1-2cm wide chlorite rich vein, sub-parallel to C.A.			Chlorite vein sub-parallel to C.A.		Tr. Po		24185	1.19 m				

NORANDA EXPLORATION COMPANY LTD.

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 37 of 44		
Lat.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip	HOLE No.			
Dep.	Length	Bearing						Dep.	Length	Bearing	LH-86-6				
From	To	Recovery	Description		Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS					
227.44	229.53	98%	EXTREMELY ALTERED TUFF As described 221.55 -- 222.3. Pervasive silicification, patchy chloritization.		228.53 - fract. @ 40° to C.A. dominant fract. direction.	1 Po/Py		24186	2.09						
229.53	231.19	100%	TUFF & LAPILLI TUFF As described 231.19 - 231.8.			1-3 Po/Py		24187	1.66						
231.19	231.8	100%	TUFF & LAPILLI TUFF - EXTREME SILICIFICATION Extremely silicified & bleached beyond recognition locally. Highly chloritized patches locally up to 7cm wide. Irregular contact. Irregular also at contacts of silic. zones.		Highly irreg. sulphide healed vein aggregates of Po/Py/Aspy 0-80° A.C.A.	3 Po/Py Aspy		24188	.61						
231.8	232.9	98%	SILICIFIED TUFF LAPILLI TUFF Mottled to streaky, locally more whitish & silicified, or greenish & chloritized, otherwise brownish-greenish grey & finely interbedded.		232.17 - ½cm wide Po/Py Aspy. Healed fract. is 12° to C.A.	3-4 Po/Py Aspy		24189	1.1						
232.9	233.05	100%	GRANITIC DYKE Coarse grained. Both contacts irregular, between 70-40° A.C.A. Visible moly specks locally.			3 Po/Py 1 Mo		241.90	0.15						
233.05	234.18	98%	SILICIFIED TUFF & LAPILLI TUFF As for 231.8 - 232.9. Sulphides dissem. to tiny blebs of crystal aggregates in fractures in all angles to C.A., & often very irregular.		233.21 - fract. 38° to C.A. with sulphides.	4-10 Po/Py & Aspy 6 AUG		24191	1.13						
234.18	235.74	98%	SILICIFIED TUFF & LAPILLI TUFF As for 231.8 - 232.9. From 234.83 - 235.73 - intense parallel to splayed fracturing healed with dissem. Po/Py & Aspy. Sulphide 15% this .4m section		234.25 - Po/Py Aspy fract. 33° A.C.A. 234.31 - parallel	10 Po/Py Aspy		24192	1.56						

DRILL LOG - #1

& the same.

Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 38 of 44		
Lat.		Elev.		Dip		RECORDED		CORRECTED		RECORDED		CORRECTED		HOLE No.		
Dep.		Length		Bearing						Dep.		Length		LH-86-6		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
			CONT. (see diagram). Prominent fracturing, often parallel @ 22° and 62° to C.A. Another similar zone 235.52 - 235.74. Prominent sulphide-filled fractures, 30° to C.A.													
235.74	237.2	100%	SILICIFIED TUFF/LAPILLI TUFF As for 231.8 - 232.9, sulphides dissem. through in highly irregular fractures.					7-10 Po/Py Aspy		24193	1.46					
237.2	238.72	100%	SILICIFIED TUFF/LAPILLI TUFF As for 231.8 - 232.9. Same, local extremely silicified & bleached, whitish core up to 15cm wide (2 main zones).			237.8 - sulph. healed fract 25° A.C.A.		7-10 Po/Py Aspy		24194	1.52					
238.72	240.19	100%	EXTREMELY SILICIFIED TUFF/LAPILLI TUFF As for 231.19 - 231.8, mosaic of irregular chloritic & Po/Py/Aspy healed fractures. Locally blebs of crystal aggregates.			239.8 - 240.19 ½cm wide sulph fract. 0-3° A.C.A. Others		10-20 Po/Py/ Aspy		24195	1.47					
						@ angles A.C.A.		14 Po approx. 6 Py & Aspy								
240.19	242.2	70%	TUFF LAPILLI TUFF Partially extremely silic. & altered as for 231.19 - 231.8, with irregular patches of less silicified tuff as for 231.8 - 232.9. Same proportions of sulphides as for 238.77 - 240.19.			240.9 - good Bedding @ 60° A.C.A. 241.9 - 1-2mm calc-sil veinlet @ 35° A.C.A. 242.2 - 1-2mm fracture with Po @ 45° A.C.A.		4-9 Po/Py Aspy		24196	2.01					

**NORANDA EXPLORATION COMPANY LTD.**

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 39 of 44		
Lot.		Elev.		Dip		RECORDED		CORRECTED		Lot.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
242.2	243.6	98%	<p><b>TUFF</b> Mottled purply-brown/medium green/white, fine to medium grained. Pervasive biotite &amp; chlorite alteration. 4-8% sulphides as dissemina, xtal aggregates &amp; fracture fillings. Competant core. Increasing silicification down-hole.</p>			243.0 - mineralized fract. 1-3mm @ 28° A.C.A.		5-10 Po 2 Aspy		24197	1.4					
243.6	243.9	100%	<p><b>QUARTZ VEIN</b> Totally silicified tuff, white with green tinge &amp; minor brown zones. Contains 4% Po &amp; Aspy (= proportions) overall as fracture fillings &amp; xtal aggregates.</p>			Contact with above @ 55-60° A.C.A.		2 Aspy 2 Po		24198	0.3					
243.9	244.1	100%	<p><b>QUARTZ VEIN</b> As 243.6 - 243.9, but with increased mineralization as crystal aggregates &amp; fracture fillings, irregular, but generally 30-48% to ca, average 40° A.C.A. Minor pink alteration.</p>			Aspy 40° A.C.A.		10 Aspy 2 Po		24199	0.2					
244.1	244.68	100%	<p><b>QUARTZ VEIN</b> As 243.6 - 243.9. 244.2 - 244.28, brown non-silicified zone. Sulphides now as crystal aggregates. 243.6 - 245.0 - quartz vein?</p>					5 Aspy 2 Po		24200	0.58					
244.68	244.81	98%	<p><b>QUARTZ VEIN</b> As 243.6 - 243.9. Richly mineralized zone, 10% Aspy, 5% Po as crystal aggregates &amp; fracture fillings.</p>			Aspy 50° A.C.A.		10 Aspy 5 Po		24201	0.13					
244.81	245.0	100%	<p><b>QUARTZ VEIN</b> As 243.7 - 243.9. 3% Aspy, 2% Po, as isolated crystals &amp; crystal aggregates. Competant core (243.6 - 245.0).</p>					3 Aspy 2 Po		24202	0.19					
245.0	245.85	100%	<p><b>TUFF</b> As 242.2 - 243.6</p>			245.3 - rusty fracture @ 12° A.C.A.		trace Aspy Po		24203	0.85					

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Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 40 of 44		
Lot.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.	Elev.	Dip	HOLE No.			
Dep.	Length	Bearing						Dep.	Length	Bearing	LH-86-6				
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
245.85	246.5	100%	BLEACHED ZONE Tuff, original textures poorly preserved. Pale green. Contains @ 1.5cm wide calc-sil vein which is sub-parallel to A.C.A. At 246.3 this vein turns into a qtz-xtal fined "VUC" - very rusty, but with no observed sulphides. It appears that at this point a fracture intersects the calc-sil veinlet.			Sub-parallel fracture & calc-sil veinlets	0		24204	0.65					
246.5	248.48	98%	TUFF & LAPILLI As 242.2 - 243.6, but with minor lapilli size siliceous fragments. Poor core competency.			247.36 - sub-parallel minor fracture	1-2 Po trace Aspy		24205	1.98					
248.48	250.41	100%	TUFF As 242.2 - 243.6. Minor lapilli size (approx. 5mm) siliceous fragments with in an intermediate fine grained matrix. 249.58 - 250.05 - paler bleached zone. Medium competent core.			248.6 - bedding @ 60° A.C.A. Fracture rusty, but minor @ 12° A.C.A.	apprcx. 1 Po trace Aspy		24206	1.93					
250.41	250.91	0%	NO CORE RECOVERY Drillers report sudden drop in rods, ie - cavity.												
250.91	252.9	100%	TUFF As 242.2 - 243.6			251.2 - fract. with Py @ 4° A.C.A. & calc-sil 2mm. Minor	1-2 Py & Po		24207	1.99					
						fract. with Py @ 20°. Same direction, zone slightly bleached									

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Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 41 of 44			
Lat.		Elev.			Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.		Elev.		Dip	
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
			CONT.			251.95 - bedding with parallel silic. & chloritization @ 60°										
						A.C.A.										
252.9	253.6	100%	TUFF As 242.2 - 243.6, but more homogenous in composition, ie - less mottled in appearance. Sulphides approx. 1%, finely disseminated.					1 Po/Py trace Aspy		24208	0.7					
253.6	255.6	100%	LAPILLI TUFF & AGGLOMERATE Mottled green-grey/white/purply-brown. Fragments from 1mm, greater than core diameter. Usually siliceous, but @ times, intermediate & severally biotite altered with in an intermediate fine grained matrix. Pervasive chlorite & biotite alteration with silicified patches - irregular. Good core competency.			253.7 - 1-2mm wide chloritic altered fract. with parallel bleached zone @ 12° A.C.A. 255.2 - 2-3mm chloritic altered fract. @ 25° A.C.A.		1-2 Po/Py trace Aspy		24209	2.0					
255.6	257.62	100%	LAPILLI TUFF & AGGLOMERATE As 253.6 - 255.7. Good core competency.			257.95 - Possible bedding @ 40° A.C.A.		1-2 Po/Py		24210	2.02					
257.62	259.6	100%	LAPILLI TUFF & AGGLOMERATE As 253.6 - 255.6			258.5 - 1.5cm granodiorite veinlet @ 50° A.C.A.										



**NORANDA EXPLORATION COMPANY LTD.**

Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 42 of 44			
Lot.		Elev.			Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.		Elev.		Dip	
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
			CONT.			258.1 - 1cm wide granodiorite veinlet @ 50° A.C.A.										
259.6	260.67	100%	LAPILLI TUFF & AGGLOMERATE As 253.6 - 255.6					1-2 Po/Py		24212	1.07					
260.67	261.9	100%	LAPILLI TUFF & AGGLOMERATE As 253.6 - 255.6			261.0 - possible bedding @ 50° A.C.A.		2 Po/Py		24213	1.23					
261.9	263.72	98%	TUFF WITH MINOR LAPILLI TUFF INTERBEDS Local minor alteration (chloritization) & silicification. Pale to mainly dark greenish-grey. Po/Py mainly dissem.			262.15 - .18 granitic vein, both contacts 70° A.C.A.		1-2 Po/Py		24214	1.82					
263.72	265.5	98%	LAPILLI TUFF WITH MINOR TUFFS INTERBEDS Patchy weak chloritization & silicification over approx. 50% of interval. Minor agglomerate. See diagram: 2 fractures with much Po/Py.			264.26 - bedding is 34° A.C.A.		3-6 Po/Py 1 Asph		24215	1.78					
265.5	267.75	98%	LAPILLI TUFF WITH MINOR TUFF & AGGLOMERATE At 265.68 parallel thin bands (.5mm) dissem. Po/Py, possibly parallel to bedding. Same also at 28° to C.A. Rusty fractures and two 1½cm granitic veins between 265.88 & 267.97.			268.12 - bedding 54° A.C.A.		2-5 Po/Py		24216	1.75					
267.25	268.33	98%	ALTERED TUFF & LAPILLI TUFF Pale greenish, silicified. Some chalcedonic veinlets from 0-10° to C.A. 267.25 - 267.53 - irreg. granitic vein 1.5cm wide 6° A.C.A.			268.12 - bedding 54° A.C.A.		1-3 Po/Py		24217	1.07					

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Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 43 of 44		
Lat.		Elev.			Dip		RECORDED	CORRECTED	RECORDED	CORRECTED	Lot.		Elev.		Dip
Dep.		Length		Bearing						Dep.		Length		Bearing	
From	To	Recovery	Description			Structure	% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
268.33	269.21	98%	TUFF WITH MINOR LAPILLI TUFF Local minor paler green patches of chloritization & silicification. At 268.45 - two irregu. shallow thin chalcedonic veinlets 5-15° to C.A.			268.45 - bedding 45° A.C.A.	1-2 Po/Py		24218	.88					
269.21	270.73	98%	TUFF WITH MINOR LAPILLI TUFF As for 261.9 - 263.72				1-2 Po/Py		24219	1.52					
270.73	272.50	100%	TUFF WITH MINOR LAPILLI TUFF As for 261.9 - 263.72, but up to 50% of this interval altered & silicified slightly. Minor agglomerate. 11cm wide (true width) granitic dyke @ 23° to C.A. from 270.76 - 270.97.			271.13 - bedding = 50° A.C.A. 272.49 - bedding = 56° to C.A.	1 Po/Py		24220	1.77					
272.50	272.56	100%	BLEACHED ZONE Pale green, bleached, but not silicified. Contains a mosaic of irregular minor hairline fractures. Calcareous. Highly fractured core.				0								
272.56	272.87	15%	CAVITY (BLEACHED ZONE)												
272.87	273.5	98%	BLEACHED ZONE As 272.5 - 272.56			273.7 - siliceous chloritized fract. with Po @ 10° A.C.A.									
273.5	275.61	100%	TUFF Brown-grey, fine grained. Minor siliceous fragments to 2mm & isolated silicified patches & bleached patches. Approx. 1% Po very finely disseminated. Competant core.				1 Po/Py		24222	2.11					

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Date \_\_\_\_\_ Logged By \_\_\_\_\_

NORANDA EXPLORATION COMPANY LTD.

Date Colored		Date Completed		Core Size		DIP TESTS				PROPERTY		PROJECT No. 135		N.T.S. No.		
FIELD CO-ORDINATES				DEPTH		BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet 44 of 44		
Lat.		Elev.		Dip		RECORDED		CORRECTED		Lat.		Elev.		Dip		
Dep.		Length		Bearing						Dep.		Length		Bearing		
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width	ASSAYS				
275.61	277.5	100%	TUFF As described as 273.5 - 275.61, but now with approx. 50% of core as bleached pale green, silicified zones - irregular. Po/Py as fracture fillings + minor Aspy as isolated xtals (blebs). Competent core.			276.2 - Po healed fract. @ 15° A.C.A. 276.4 - chloritized fract. @ 15° A.C.A. with a cross-cutting fract. (chloritized) @ 40° in opposite direction.										
277.5	278.66	98%	TUFF As described 273.5 - 275.61, but with slightly more irregular bleached & siliceous zones. Approx. 1% Po/Py - very finely disseminated. Medium competent core.			277.5 - alteration, possibly following bedding @ 60° A.C.A. 277.8 - 1cm calc-sil. veinlet @ 62° A.C.A. 278.0 - minor fract. @ 10° A.C.A.		approx. 1 Po/Py		24224	1.16					
278.66	280.6	100%	TUFF As 273.5 - 275.61, but with approx. 15% of core as irregular pale grey-green altered patches from 0.3 - 10cm, bleached, chloritized Po/Py very finely disseminated.			280.15 - 280.3 felsic, coarser grained tuff @ 55° A.C.A., good		1 Po/Py		24225	1.94					
280.6	282.6	100%	TUFF As 273.5 - 275.61			280.9 - 281.3 felsic coarser grained (2mm) tuff @ 50° A.C.A.		1 Po/Py		24226	2.0					

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Date Collared		Date Completed		Core Size		DIP TESTS				PROPERTY			PROJECT No.		N.T.S. No.	
FIELD CO-ORDINATES				DEPTH	BEARING		ANGLE		SURVEYED CO-ORDINATES				Sheet of			
Lat.	Elev.	Dip			RECORDED	CORRECTED	RECORDED	CORRECTED	Lat.	Elev.	Dip		HOLE No.			
Dep.	Length	Bearing						Dep.	Length	Bearing		ASSAYS				
From	To	Recovery	Description			Structure		% Sulph.	Est. Grade	SAMPLE No.	Width					
282.6	284.45	98%	TUFF	As 273.5 - 275.61			283.2 - calcareous fract. @ 10° A.C.A.		1	Po/Py	24227	1.85				
							283.95 - bedding @ 25° A.C.A.									
			end of hole - CASING LEFT IN													

APPENDIX D

DRILL CORE ASSAYS AND GEOCHEMICAL ANALYSES

LH PROJECT 1987  
DIAMOND DRILL HOLE ASSAY VALUES

NOTE: Units of Distance & Length - [metres]

Au units - [gram/tonne]

= As units - [ppm] if value integral  
[ % ] if format n.dd

'-' indicates assay value below detection limit

'+' indicates assay value above detection limit

DDH #	Sample	From	To	Au	-	As	+	/In'val	Remarks
LH-86-	6 66321	4.10	5.60	0.07	-	25	/	1.50	
LH-86-	6 66322	6.70	8.60	0.07	-	60	/	1.90	
LH-86-	6 66323	11.00	12.80	0.07	-	26	/	1.80	
LH-86-	6 74601	12.80	13.50	0.07		120	/	0.70	
LH-86-	6 74602	13.50	13.60	0.72		1000	+	0.10	
LH-86-	6 74603	13.60	14.60	0.14		1000	+	1.00	
LH-86-	6 66324	15.40	16.46	0.07	-	60	/	1.06	
LH-86-	6 66325	16.46	19.80	0.07	-	220	/	3.34	
LH-86-	6 66326	20.73	21.80	0.07	-	100	/	1.07	
LH-86-	6 66327	21.80	23.45	0.07	-	55	/	1.65	
LH-86-	6 74604	23.45	23.80	0.07		90	/	0.35	
LH-86-	6 66328	25.00	26.20	0.07	-	62	/	1.20	
LH-86-	6 74605	26.20	26.52	0.07		61	/	0.32	
LH-86-	6 74606	26.52	27.00	0.14		110	/	0.48	
LH-86-	6 74607	27.00	28.50	0.07	-	80	/	1.50	
LH-86-	6 66329	28.50	30.18	0.07	-	180	/	1.68	
LH-86-	6 66330	30.18	32.20	0.07		60	/	2.02	
LH-86-	6 74608	32.20	33.54	0.34		64	/	1.34	
LH-86-	6 66331	33.54	35.06	0.65		82	/	1.52	
LH-86-	6 66332	35.06	36.59	0.14		110	/	1.53	
LH-86-	6 74609	36.59	38.11	0.10		100	/	1.52	
LH-86-	6 66333	38.11	39.63	0.07	-	46	/	1.52	
LH-86-	6 66334	39.63	40.85	0.07	-	130	/	1.22	
LH-86-	6 66335	40.85	42.07	0.07	-	140	/	1.22	
LH-86-	6 66336	42.07	43.29	0.07	-	80	/	1.22	
LH-86-	6 74610	43.29	45.09	0.10		22	/	1.80	
LH-86-	6 66337	45.12	46.19	0.07	-	20	/	1.07	
LH-86-	6 66338	46.19	47.26	0.07		25	/	1.07	
LH-86-	6 66339	47.40	48.48	0.27		30	/	1.08	
LH-86-	6 74611	48.48	49.15	0.17		26	/	0.67	
LH-86-	6 66340	49.15	50.61	0.07		0.01	/	1.46	
LH-86-	6 66341	50.61	52.61	0.07	-	0.01	/	2.00	
LH-86-	6 66342	52.61	54.50	0.07	-	0.01	/	1.89	
LH-86-	6 66343	54.50	55.79	0.07	-	0.01	/	1.29	
LH-86-	6 66344	55.79	56.80	0.72		0.01	/	1.01	
LH-86-	6 66345	56.80	57.00	0.07		0.01	/	0.20	
LH-86-	6 66346	57.00	58.50	0.17		0.01	/	1.50	
LH-86-	6 74612	58.50	60.00	0.07	-	76	/	1.50	
LH-86-	6 66347	60.00	62.30	0.07	-	0.01	/	2.30	
LH-86-	6 66348	62.30	63.40	0.07	-	0.02	/	1.10	
LH-86-	6 66349	63.40	64.94	0.07		0.04	/	1.54	
LH-86-	6 30036	64.94	66.20	0.17		50	/	1.26	
LH-86-	6 30037	66.20	66.93	0.10		45	/	0.73	
LH-86-	6 30038	66.93	67.79	0.51		51	/	0.86	
LH-86-	6 30039	67.79	68.76	0.07	-	18	/	0.97	

LH PROJECT 1987  
DIAMOND DRILL HOLE ASSAY VALUES

NOTE: Units of Distance & Length - [metres]

Au units - [gram/tonne]

= As units - [ppm] if value integral  
[ % ] if format n.dd

'-' indicates assay value below detection limit

'+' indicates assay value above detection limit

DDH #	Sample	From	To	Au	-	As	+ / In'val	Remarks
LH-86-	6 30040	68.76	69.01	0.07		26	/ 0.25	
LH-86-	6 30041	69.01	70.47	0.07	-	25	/ 1.46	
LH-86-	6 30042	70.47	71.89	0.07	-	34	/ 1.42	
LH-86-	6 66350	71.89	73.48	0.07	-	0.02	/ 1.59	
LH-86-	6 24501	73.48	75.30	0.07	-	0.01	/ 1.82	
LH-86-	6 24502	75.30	76.20	0.07	-	0.01	/ 0.90	
LH-86-	6 74613	76.20	76.40	0.07	-	23	/ 0.20	
LH-86-	6 74614	76.40	77.75	0.07		24	/ 1.35	
LH-86-	6 24503	77.75	79.50	0.07	-	0.01	- / 1.75	
LH-86-	6 24504	79.50	81.50	0.07	-	0.01	/ 2.00	
LH-86-	6 74615	81.50	83.00	0.07	-	11	/ 1.50	
LH-86-	6 24505	83.00	85.00	0.07	-	0.01	/ 2.00	
LH-86-	6 24506	85.00	86.58	0.17		0.01	/ 1.58	
LH-86-	6 24507	86.58	88.20	0.07	-	0.01	/ 1.60	
LH-86-	6 24508	88.20	89.80	0.07		0.01	/ 1.60	
LH-86-	6 74616	89.80	91.45	0.07	-	24	/ 1.65	
LH-86-	6 74617	91.45	93.00	0.07	-	11	/ 1.55	
LH-86-	6 24509	93.00	94.60	0.07	-	0.01	/ 1.60	
LH-86-	6 24510	94.60	94.75	0.07	-	0.01	/ 0.15	
LH-86-	6 24511	94.75	96.75	0.07	-	0.01	/ 2.00	
LH-86-	6 24512	96.75	98.00	0.07	-	0.01	/ 1.25	
LH-86-	6 24513	98.00	99.00	0.07	-	0.01	/ 1.00	
LH-86-	6 74618	99.00	99.60	0.07		24	/ 0.60	
LH-86-	6 24514	99.60	101.00	0.07	-	0.01	/ 1.40	
LH-86-	6 24515	101.00	102.40	0.07	-	0.01	/ 1.40	
LH-86-	6 24516	102.40	103.38	0.07	-	0.01	/ 0.98	
LH-86-	6 74619	103.38	104.96	0.07		11	/ 1.58	
LH-86-	6 24517	104.96	106.92	0.07	-	0.01	/ 1.96	
LH-86-	6 24518	106.92	107.90	0.10		0.01	/ 0.98	
LH-86-	6 74620	107.90	108.00	0.31		70	/ 0.10	
LH-86-	6 24519	108.00	108.96	0.07	-	0.01	/ 0.96	
LH-86-	6 74621	108.96	109.67	0.07		40	/ 0.71	
LH-86-	6 74622	109.67	109.86	0.45		90	/ 0.19	
LH-86-	6 74623	109.86	111.50	0.10		35	/ 1.64	
LH-86-	6 74624	111.50	112.76	0.10		52	/ 1.26	
LH-86-	6 24520	112.76	114.78	0.07	-	0.01	/ 2.02	
LH-86-	6 24521	114.78	116.78	0.07	-	0.01	/ 2.00	
LH-86-	6 74625	116.78	117.91	0.07		43	/ 1.13	
LH-86-	6 24522	117.91	119.25	0.07		0.01	- / 1.34	
LH-86-	6 76926	119.25	120.73	0.21		1000	+ / 1.48	
LH-86-	6 30043	120.73	121.61	0.14		800	/ 0.88	
LH-86-	6 30044	121.61	122.38	0.55		1000	+ / 0.77	
LH-86-	6 30045	122.38	122.87	0.86		1000	+ / 0.49	
LH-86-	6 24523	122.87	124.32	0.07		0.01	- / 1.45	
LH-86-	6 76927	124.32	125.63	0.75		62	/ 1.31	

LH PROJECT 1987  
DIAMOND DRILL HOLE ASSAY VALUES

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"-" indicates assay value below detection limit

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DDH #	Sample	From	To	Au	As	+ / In'val	Remarks
LH-86-	6 76928	125.63	126.37	0.72	53	/ 0.74	
LH-86-	6 76929	126.37	127.44	0.45	320	/ 1.07	
LH-86-	6 76930	127.44	128.70	0.14	800	/ 1.26	
LH-86-	6 76931	128.70	129.88	0.17	800	/ 1.18	
LH-86-	6 76932	129.88	131.56	0.10	42	/ 1.68	
LH-86-	6 76933	131.56	131.97	0.10	11	/ 0.41	
LH-86-	6 76934	131.97	133.82	0.10	600	/ 1.85	
LH-86-	6 24524	133.82	135.98	0.10	0.01	/ 2.16	
LH-86-	6 76935	135.98	137.00	0.10	75	/ 1.02	
LH-86-	6 76936	137.00	137.56	0.14	52	/ 0.56	
LH-86-	6 24525	137.56	139.45	0.07	0.01	/ 1.89	
LH-86-	6 24526	139.45	141.45	0.07	- 0.01	/ 2.00	
LH-86-	6 24527	141.45	143.28	0.07	0.01	/ 1.83	
LH-86-	6 76937	143.28	144.06	0.10	110	/ 0.78	
LH-86-	6 24528	144.06	144.70	0.14	0.01	/ 0.64	
LH-86-	6 24529	144.70	145.12	0.10	0.01	/ 0.42	
LH-86-	6 76938	145.12	145.95	0.14	68	/ 0.83	
LH-86-	6 76939	145.95	146.00	1.17	1000	+ / 0.05	
LH-86-	6 76940	146.00	147.60	0.17	700	/ 1.60	
LH-86-	6 76941	147.70	148.07	0.38	1000	+ / 0.37	
LH-86-	6 76942	148.07	149.57	0.10	450	/ 1.50	
LH-86-	6 24530	149.57	151.22	0.07	- 0.01	/ 1.65	
LH-86-	6 24531	151.22	153.00	0.07	- 0.01	- / 1.78	
LH-86-	6 76943	153.00	154.50	0.14	46	/ 1.50	
LH-86-	6 76944	154.50	155.42	0.58	120	/ 0.92	
LH-86-	6 76945	155.42	155.85	20.43	1000	+ / 0.43	
LH-86-	6 76946	155.85	156.35	0.27	300	/ 0.50	
LH-86-	6 76947	156.35	157.32	0.10	39	/ 0.97	
LH-86-	6 76948	157.32	158.33	0.48	400	/ 1.01	
LH-86-	6 76949	158.33	158.65	0.07	120	/ 0.32	
LH-86-	6 76950	158.65	159.76	0.07	- 46	/ 1.11	
LH-86-	6 66276	159.76	161.00	0.10	300	/ 1.24	
LH-86-	6 66277	161.00	161.91	1.78	1000	+ / 0.91	
LH-86-	6 66278	161.91	162.60	0.14	1000	/ 0.69	
LH-86-	6 66279	162.60	163.17	4.08	1000	+ / 0.57	
LH-86-	6 66280	163.17	163.90	0.62	900	/ 0.73	
LH-86-	6 66281	163.90	165.40	0.24	300	/ 1.50	
LH-86-	6 66282	165.40	166.27	0.93	800	/ 0.87	
LH-86-	6 66283	166.27	166.48	0.41	800	/ 0.21	
LH-86-	6 66284	166.48	167.77	7.85	1000	+ / 1.29	
LH-86-	6 66285	167.77	168.78	0.58	1000	+ / 1.01	
LH-86-	6 66286	168.78	169.60	0.21	900	/ 0.82	
LH-86-	6 66287	169.60	170.70	0.27	310	/ 1.10	
LH-86-	6 66288	170.70	170.76	5.52	1000	+ / 0.06	
LH-86-	6 66289	170.76	171.65	0.14	500	/ 0.89	



LH PROJECT 1987  
DIAMOND DRILL HOLE ASSAY VALUES

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DDH #	Sample	From	To	Au	-	As	+ /In'val	Remarks
LH-86-	6 66290	171.65	172.49	0.17		1000	/ 0.84	
LH-86-	6 66291	172.49	173.27	0.48		1000 +	/ 0.78	
LH-86-	6 66292	173.27	174.70	0.10		310	/ 1.43	
LH-86-	6 66293	174.70	175.91	0.17		110	/ 1.21	
LH-86-	6 66294	175.91	177.98	0.14		45	/ 2.07	
LH-86-	6 24532	177.98	180.00	0.10		0.01	/ 2.07	
LH-86-	6 66295	180.00	181.50	0.07	-	58	/ 1.50	
LH-86-	6 66296	181.50	183.00	0.07	-	54	/ 1.50	
LH-86-	6 66297	183.00	185.00	0.07	-	37	/ 2.00	
LH-86-	6 66298	185.00	186.00	0.07	-	33	/ 1.00	
LH-86-	6 66299	186.00	187.50	0.07		15	/ 1.50	
LH-86-	6 66300	187.50	189.00	0.07	-	46	/ 1.50	
LH-86-	6 66301	189.00	190.50	0.07	-	40	/ 1.50	
LH-86-	6 66302	190.50	192.00	0.10		130	/ 1.50	
LH-86-	6 66303	192.00	193.50	0.10		90	/ 1.50	
LH-86-	6 66304	193.50	195.00	0.07		14	/ 1.50	
LH-86-	6 66305	195.00	196.50	0.07	-	13	/ 1.50	
LH-86-	6 66306	196.50	197.63	0.07	-	10	/ 1.13	
LH-86-	6 24533	197.63	199.85	0.07	-	0.01	/ 2.22	
LH-86-	6 66307	199.85	201.38	0.07	-	90	/ 1.53	
LH-86-	6 66308	201.38	202.13	0.07	-	10	/ 0.75	
LH-86-	6 66309	202.13	203.25	0.07	-	4	/ 1.12	
LH-86-	6 66310	203.25	203.43	0.07	-	85	/ 0.18	
LH-86-	6 24534	203.43	205.34	0.10		0.01	/ 1.91	
LH-86-	6 24535	205.34	206.76	0.07	-	0.01	/ 1.42	
LH-86-	6 24536	206.76	208.16	0.07	-	0.01	/ 1.40	
LH-86-	6 66311	208.16	209.09	0.07	-	14	/ 0.93	
LH-86-	6 66312	209.09	211.09	0.07		11	/ 2.00	
LH-86-	6 66313	211.09	212.26	0.14		6	/ 1.17	
LH-86-	6 66314	212.26	212.55	0.07	-	15	/ 0.29	
LH-86-	6 66315	212.55	213.75	0.07		65	/ 1.20	
LH-86-	6 66316	213.75	215.39	0.07		17	/ 1.64	
LH-86-	6 66317	215.39	215.57	0.07	-	13	/ 0.18	
LH-86-	6 66318	215.57	216.07	0.07	-	10	/ 0.50	
LH-86-	6 66319	216.07	216.95	0.07	-	13	/ 0.88	
LH-86-	6 66320	216.95	217.92	0.07	-	10	/ 0.97	
LH-86-	6 24176	217.92	218.83	0.07	-	0.01	/ 0.91	
LH-86-	6 24177	218.83	220.20	0.07		0.01	/ 1.37	
LH-86-	6 24178	220.20	221.55	0.27		0.04	/ 1.35	
LH-86-	6 24179	221.55	222.30	0.07		0.01	/ 0.75	
LH-86-	6 24180	222.30	223.70	0.07		0.01 -	/ 1.40	
LH-86-	6 24181	223.70	224.39	0.21		0.01	/ 0.69	
LH-86-	6 24182	224.39	225.70	0.10		0.01	/ 1.31	
LH-86-	6 24183	225.70	226.10	0.17		0.01	/ 0.40	
LH-86-	6 24184	226.10	226.25	2.50		0.01	/ 0.15	

LH PROJECT 1987  
DIAMOND DRILL HOLE ASSAY VALUES

NOTE: Units of Distance & Length - [metres]

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As units - [ppm] if value integral

[ % ] if format n.dd

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DDH #	Sample	From	To	Au	-	As	+ /In'val	Remarks
LH-86-	6 24185	226.25	227.44	0.07		0.01	/ 1.19	
LH-86-	6 24186	227.44	229.53	0.07		0.01	/ 2.09	
LH-86-	6 24187	229.53	231.19	0.07	-	0.01	/ 1.66	
LH-86-	6 24188	231.19	231.80	0.38		0.23	/ 0.61	
LH-86-	6 24189	231.80	232.90	3.67		0.08	/ 1.10	
LH-86-	6 24190	232.90	233.05	0.07		0.01	/ 0.15	
LH-86-	6 24191	233.05	234.18	1.23		0.26	/ 1.13	
LH-86-	6 24192	234.18	235.74	0.34		0.10	/ 1.56	
LH-86-	6 24193	235.74	237.20	0.45		0.04	/ 1.46	
LH-86-	6 24194	237.20	238.72	0.24		0.17	/ 1.52	
LH-86-	6 24195	238.72	240.19	3.33		0.24	/ 1.47	
LH-86-	6 24196	240.19	242.20	0.21			/ 2.01	
LH-86-	6 24197	242.20	243.60	0.89			/ 1.40	
LH-86-	6 24198	243.60	243.90	0.38			/ 0.30	
LH-86-	6 24199	243.90	244.10	8.33			/ 0.20	
LH-86-	6 24200	244.10	244.68	4.56			/ 0.58	
LH-86-	6 24201	244.68	244.81	6.51			/ 0.13	
LH-86-	6 24202	244.81	245.00	2.16			/ 0.19	
LH-86-	6 24203	245.00	245.85	0.65			/ 0.85	
LH-86-	6 24204	245.85	246.50	0.55			/ 0.65	
LH-86-	6 24205	246.50	248.48	0.10			/ 1.98	
LH-86-	6 24206	248.48	250.41	0.07			/ 1.56	
LH-86-	6 24207	250.41	252.90	0.17			/ 1.99	
LH-86-	6 24208	252.90	253.60	0.07	-		/ 0.70	
LH-86-	6 24209	253.60	255.60	0.17			/ 2.00	
LH-86-	6 24210	255.60	257.62	0.07			/ 2.02	
LH-86-	6 24211	257.62	259.60	0.07	-		/ 1.98	
LH-86-	6 24212	259.60	260.67	0.07	-		/ 1.07	
LH-86-	6 24213	260.67	261.90	0.07	-		/ 1.23	
LH-86-	6 24214	261.90	263.72	0.14		0.01	/ 1.82	
LH-86-	6 24215	263.72	265.50	0.21		0.01	- / 1.78	
LH-86-	6 24216	265.50	267.25	0.31		0.01	- / 1.75	
LH-86-	6 24217	267.25	268.33	0.21		0.01	- / 1.08	
LH-86-	6 24218	268.33	269.21	0.24		0.01	- / 0.88	
LH-86-	6 24219	269.21	270.73	0.41		0.01	- / 1.52	
LH-86-	6 24220	270.73	272.50	0.14		0.01	- / 1.77	
LH-86-	6 24221	272.50	273.50	0.07		0.01	- / 1.00	
LH-86-	6 24222	273.50	275.61	0.07		0.01	- / 2.11	
LH-86-	6 24223	275.61	277.50	0.10		0.01	- / 1.89	
LH-86-	6 24224	277.50	278.66	0.14		0.01	- / 1.16	
LH-86-	6 24225	278.66	280.60	0.07		0.01	- / 1.94	
LH-86-	6 24226	280.60	282.60	0.07	-	0.01	- / 2.00	
LH-86-	6 24227	282.60	284.45	0.07	-	0.01	- / 1.85	



LH-86-G

REPORT: 186-4397

L.H. (IM)

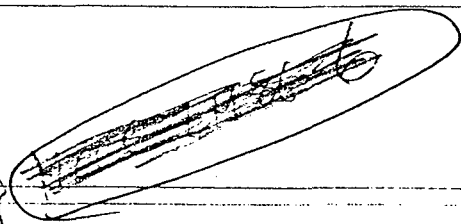
PROJECT: 135 8609-056 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	As PPM
D2-30036		15	4	42	1	50
D2-30037		95	3	50	1	45
D2-30038		128	4	30	3	51
D2-30039		11	3	25	1	18
D2-30040		221	6	36	2	26
D2-30041		40	5	30	2	25
D2-30042		43	4	24	1	34
D2-30043		20	2	56	3	800
D2-30044		39	4	36	2	>1000
D2-30045		133	3	32	2	>1000
D2-74556		31	7	62	8	600
D2-74557		22	7	60	8	120
D2-74558		19	7	34	8	110
D2-74559		46	2	30	18	150
D2-74560				66		>1000
D2-74561				66		400
D2-74562				66		400
D2-74563				66		1150
D2-74564				66		400
D2-74565				66		400
D2-74566				66		400
D2-74567				66		400
D2-74568				66		400
D2-74569				66		400
D2-74570				66		400
D2-74571				66		400
D2-74572				66		400
D2-74573				66		400
D2-74574				66		400
D2-74575				66		400
D2-74576				66		400
D2-74577				66		400
D2-74578				66		400
D2-74579				66		400

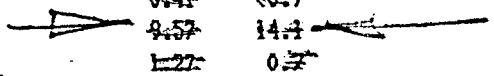
186 JK GD DP

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SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 30036		0.17	<0.7
D2 30037		0.10	0.7
D2 30038		0.51	0.7
D2 30039		<0.07	<0.7
D2 30040		0.07	1.4
D2 30041		<0.07	<0.7
D2 30042		<0.07	<0.7
D2 30043		0.14	<0.7
D2 30044		0.55	<0.7
D2 30045		0.86	<0.7
<del>D2 74650</del>		<del>0.10</del>	<del>&lt;0.7</del>
<del>D2 74651</del>		<del>0.14</del>	<del>0.7</del>
<del>D2 74652</del>		<del>&lt;0.07</del>	<del>&lt;0.7</del>
<del>D2 74653</del>		<del>&lt;0.07</del>	<del>&lt;0.7</del>
<del>D2 74654</del>		<del>0.07</del>	<del>&lt;0.7</del>
D2 74655		0.07	1.0
<del>D2 74656</del>		<del>0.07</del>	<del>1.4</del>
<del>D2 74657</del>		<del>0.07</del>	<del>&lt;0.7</del>
<del>D2 74658</del>		<del>0.14</del>	<del>&lt;0.7</del>
<del>D2 74659</del>		<del>0.17</del>	<del>&lt;0.7</del>
<del>D2 74660</del>		<del>0.10</del>	<del>&lt;0.7</del>
<del>D2 74661</del>		<del>0.45</del>	<del>&lt;0.7</del>
<del>D2 74662</del>		<del>0.41</del>	<del>&lt;0.7</del>
<del>D2 74663</del>		<del>8.57</del>	<del>14.1</del>
<del>D2 74664</del>		<del>1.27</del>	<del>0.7</del>
<del>D2 74665</del>		<del>0.27</del>	<del>&lt;0.7</del>
<del>D2 74666</del>		<del>0.17</del>	<del>&lt;0.7</del>
<del>D2 74667</del>		<del>1.68</del>	<del>&lt;0.7</del>
<del>D2 74668</del>		<del>0.24</del>	<del>&lt;0.7</del>
<del>D2 74669</del>		<del>1.44</del>	<del>&lt;0.7</del>
<del>D2 74670</del>		<del>0.12</del>	<del>0.7</del>
<del>D2 74671</del>		<del>0.41</del>	<del>1.0</del>
<del>D2 74672</del>		<del>&lt;0.07</del>	<del>&lt;0.7</del>
<del>D2 74673</del>		<del>0.79</del>	<del>0.7</del>
<del>D2 74674</del>		<del>0.10</del>	<del>&lt;0.7</del>
D2 74675		0.24	<0.7
D2 74676		0.31	<0.7
D2 74677		0.10	<0.7
D2 74678		0.27	<0.7
D2 74679		0.14	<0.7



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REPORT: 126-5000

L. H. (IM)

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	As PPM
D2 66293		8	7	43	2	110
D2 66294		7	4	44	2	45
D2 66295		12	4	52	2	58
D2 66296		6	4	50	2	54
D2 66297		6	4	44	1	37
D2 66298		4	4	46	<1	33
D2 66299		8	4	40	7	15
D2 66300		8	4	34	<1	46
D2 66301		7	4	40	1	40
D2 66302		16	4	42	8	130
D2 66303		30	5	54	2	90
D2 66304		24	5	40	2	14
D2 66305		6	4	46	<1	13
D2 66306		8	5	43	<1	10
D2 66307		4	4	44	<1	90
D2 66308		31	4	48	8	10
D2 66309		4	5	80	7	4
D2 66310		8	440	1060	3	85
D2 66311		30	67	460	8	14
D2 66312		30	6	56	1	11
D2 66313		32	6	38	1	6
D2 66314		4	6	80	208	15
D2 66315		32	4	62	3	65
D2 66316		36	5	45	1	17
D2 66317		<1	5	52	145	13
D2 66318		<1	4	83	2	10
D2 66319		<1	5	68	73	13
D2 66320		4	2	42	2	10
D2 66321		30	4	52	1	25
D2 66322		63	4	32	1	60
D2 66323		28	4	52	1	26
D2 66324		36	4	38	1	60
D2 66325		6	3	62	1	220
D2 66326		2	4	88	<1	100
D2 66327		15	3	54	1	55
D2 66328		18	2	78	2	62
D2 66329		16	4	40	2	180
D2 66330		23	5	34	1	60
D2 66331		32	5	28	<1	82
D2 66332		24	6	36	<1	110

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SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 66293		0.17	1.0	D2 66333		<0.07	<0.7
D2 66294		0.14	<0.7	D2 66334		<0.07	<0.7
D2 66295		<0.07	<0.7	D2 66335		<0.07	<0.7
D2 66296		<0.07	<0.7	D2 66336		<0.07	<0.7
D2 66297		<0.07	<0.7	D2 66337		<0.07	<0.7
D2 66298		<0.07	<0.7	D2 66338		0.07	<0.7
D2 66299		0.07	<0.7	D2 66339		0.27	<0.7
D2 66300		<0.07	<0.7				
D2 66301		<0.07	<0.7				
D2 66302		0.10	0.7				
D2 66303		0.10	<0.7				
D2 66304		0.07	<0.7				
D2 66305		<0.07	<0.7				
D2 66306		<0.07	<0.7				
D2 66307		<0.07	<0.7				
D2 66308		<0.07	<0.7				
D2 66309		<0.07	<0.7				
D2 66310		<0.07	<0.7				
D2 66311		<0.07	<0.7				
D2 66312		0.07	<0.7				
D2 66313		0.14	<0.7				
D2 66314		<0.07	<0.7				
D2 66315		0.07	<0.7				
D2 66316		0.07	<0.7				
D2 66317		<0.07	<0.7				
D2 66318		<0.07	<0.7				
D2 66319		<0.07	<0.7				
D2 66320		<0.07	<0.7				
D2 66321		<0.07	<0.7				
D2 66322		<0.07	<0.7				
D2 66323		<0.07	<0.7				
D2 66324		<0.07	<0.7				
D2 66325		<0.07	<0.7				
D2 66326		<0.07	<0.7				
D2 66327		<0.07	<0.7				
D2 66328		<0.07	<0.7				
D2 66329		<0.07	<0.7				
D2 66330		0.07	<0.7				
D2 66331		0.65	1.0				
D2 66332		0.14	<0.7				



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DDH-LH-6-86

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mn PPM
02-24196		79	13	60	<1
02-24197		72	6	52	1
02-24198		18	12	39	<1
02-24199		93	10	30	4
02-24200		46	5	32	3
02-24201		86	5	20	9
02-24202		23	6	22	<1
02-24203		31	10	50	<1
02-24204		166	11	48	3
02-24205		23	6	52	<1
02-24206		22	8	49	<1
02-24207		25	7	50	<1
02-24208		11	9	58	<1
02-24209		26	10	50	<1
02-24210		32	9	63	<1
02-24211		11	8	58	<1
02-24212		19	6	59	<1
02-24213		13	6	40	<1







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DDH-LH-6-86-(JK)

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM
2-24176		4	2	44	21
2-24177		14	3	49	3
2-24178		27	2	51	2
2-24179		8	4	38	4
2-24180		4	5	23	<1
2-24181		231	8	36	4
2-24182		23	6	44	<1
2-24183		6	8	40	1
2-24184		10	5	38	4
2-24185		6	10	28	<1
2-24186		31	8	34	1
2-24187		17	7	39	<1
2-24188		15	7	31	<1
2-24189		45	5	42	1
2-24190		13	5	19	30
2-24191		31	5	55	1
2-24192		90	6	35	<1
2-24193		86	5	60	<1
2-24194		61	5	59	<1
2-24195		131	8	33	2

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SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	As PCT
D2 24176		<0.07	<0.7	0.01
D2 24177		0.07	<0.7	0.01
D2 24178		0.27	<0.7	0.04
D2 24179		0.07	<0.7	0.01
D2 24180		0.07	<0.7	<0.01
D2 24181		0.21	<0.7	0.01
D2 24182		0.10	<0.7	0.01
D2 24183		0.17	<0.7	0.01
D2 24184		2.50	<0.7	0.01
D2 24185		0.07	<0.7	0.01
D2 24186		0.07	<0.7	0.01
D2 24187		<0.07	<0.7	0.01
D2 24188		0.38	<0.7	0.23
D2 24189		3.67	0.7	0.08
D2 24190		0.07	<0.7	0.01
D2 24191		1.23	<0.7	0.26
D2 24192		0.34	<0.7	0.10
D2 24193		0.45	<0.7	0.04
D2 24194		0.24	0.7	0.17
D2 24195		3.33	0.7	0.24



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L.H. (JK)

PROJECT: 135 8609-17

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM
2-66276		20	6	52	300	R2-95407		22	4	89	140
2-66277		72	13	48	>1000	R2-95408		16	8	28	67
2-66278		40	3	31	1000						
2-66279		46	3	44	>1000						
2-66280		58	6	36	900						
2-66281		53	2	31	300						
2-66282		120	2	58	800						
2-66283		44	2	51	800						
2-66284		55	3	38	>1000						
2-66285		50	2	55	>1000						
2-66286		16	3	52	900						
2-66287		16	3	32	310						
2-66288		25	6	38	>1000						
2-66289		10	3	35	500						
2-66290		10	2	45	1000						
2-66291		18	4	40	>1000						
2-66292		15	4	39	310						
2-74680		30	4	47	46						
2-74681		27	5	55	43						
2-74682		12	2	62	19						
2-74683		16	2	59	26						
2-74684		35	3	55	13						
2-74685		24	3	52	28						
2-74686		41	3	58	128						
2-74687		40	2	39	158						
2-74688		24	2	31	38						
2-74689		16	2	30	38						
2-74690		16	2	32	37						
2-74691		22	3	34	31						
2-76946		70	3	52	300						
2-76947		32	3	47	39						
2-76948		24	3	46	400						
2-76949		42	3	62	120						
2-76950		18	4	55	46						
2-95401		30	5	59	300						
2-95402		10	10	17	70						
2-95403		23	6	46	300						
2-95404		76	3	35	138						
2-95405		83	4	40	100						
2-95406		16	5	42	138						

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SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
R2 66276		0.10	<0.7	<del>R2 95407</del>		<del>0.14</del>	<del>&lt;0.7</del>
R2 66277		1.78	<0.7	<del>R2 95408</del>		<del>0.07</del>	<del>&lt;0.7</del>
R2 66278		0.14	<0.7				
R2 66279		<del>4.08</del>	1.0				
R2 66280		0.62	<0.7				
R2 66281		0.24	<0.7				
R2 66282		0.93	<0.7				
R2 66283		0.41	<0.7				
R2 66284		<del>7.85</del>	<0.7				
R2 66285		0.58	<0.7				
R2 66286		0.21	0.7				
R2 66287		0.27	<0.7				
R2 66288		<del>5.52</del>	0.7				
R2 66289		0.14	<0.7				
R2 66290		0.17	<0.7				
R2 66291		0.48	<0.7				
R2 66292		0.10	<0.7				
<del>R2 74680</del>		<del>0.14</del>	<del>&lt;0.7</del>				
<del>R2 74681</del>		<del>0.14</del>	<del>&lt;0.7</del>				
<del>R2 74682</del>		<del>0.07</del>	<del>&lt;0.7</del>				
<del>R2 74683</del>		<del>0.10</del>	<del>&lt;0.7</del>				
<del>R2 74684</del>		<del>0.10</del>	<del>&lt;0.7</del>				
<del>R2 74685</del>		<del>0.38</del>	<del>&lt;0.7</del>				
<del>R2 74686</del>		<del>0.38</del>	<del>&lt;0.7</del>				
<del>R2 74687</del>		<del>0.07</del>	<del>&lt;0.7</del>				
<del>R2 74688</del>		<del>0.10</del>	<del>&lt;0.7</del>				
<del>R2 74689</del>		<del>0.17</del>	<del>&lt;0.7</del>				
<del>R2 74690</del>		<del>0.10</del>	<del>&lt;0.7</del>				
<del>R2 74691</del>		<del>0.21</del>	<del>&lt;0.7</del>				
R2 76946		0.27	<0.7				
R2 76947		0.10	<0.7				
R2 76948		0.48	<0.7				
R2 76949		0.07	<0.7				
R2 76950		<0.07	<0.7				
<del>R2 95401</del>		<del>0.34</del>	<del>&lt;0.7</del>				
<del>R2 95402</del>		<del>0.51</del>	<del>&lt;0.7</del>				
<del>R2 95403</del>		<del>0.27</del>	<del>&lt;0.7</del>				
<del>R2 95404</del>		<del>0.31</del>	<del>&lt;0.7</del>				
<del>R2 95405</del>		<del>0.34</del>	<del>&lt;0.7</del>				
<del>R2 95406</del>		<del>0.17</del>	<del>&lt;0.7</del>				

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PROJECT: 135 8609-090

LH (JK)

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	As PPM
R2 74601		20	4	60	3	120
R2 74602		65	2	35	2	>1000
R2 74603		36	4	28	1	>1000
R2 74604		46	3	44	2	90
R2 74605		16	5	76	2	61
R2 74606		48	2	63	3	110
R2 74607		19	3	52	2	80
R2 74608		40	4	25	1	64
R2 74609		34	5	25	2	100
R2 74610		33	4	60	2	22
R2 74611		40	7	30	2	26
R2 74612		45	5	46	2	76
R2 74613		92	4	68	4	23
R2 74614		17	4	60	2	24
R2 74615		7	2	90	2	11
R2 74616		19	5	32	1	24
R2 74617		9	3	34	1	11
R2 74618		6	4	76	2	24
R2 74619		2	4	78	1	11
R2 74620		96	12	120	4	70
R2 74621		24	4	28	1	40
R2 74622		300	6	44	2	90
R2 74623		71	6	36	14	35
R2 74624		27	4	19	1	52
R2 74625		9	3	23	2	43
R2 76926		12	4	37	1	>1000
R2 76927		92	5	27	1	62
R2 76928		92	4	53	4	53
R2 76929		50	3	42	1	320
R2 76930		27	2	47	1	800
R2 76931		30	2	44	1	800
R2 76932		24	2	40	1	42
R2 76933		6	3	38	34	11
R2 76934		39	2	45	2	600
R2 76935		19	2	40	1	75
R2 76936		35	2	46	1	52
R2 76937		15	2	44	1	110
R2 76938		19	2	50	2	68
R2 76939		24	2	28	2	>1000
R2 76940		8	2	50	1	700

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SAMPLE NUMBER	ELEMENT UNITS	Cr PPM	Pb PPM	Zn PPM	Mo PPM	As PPM
R2-76941		35	<2	43	1	>1000
R2-76942		19	<2	32	1	450
R2-76943		21	2	32	1	46
R2-76944		19	<2	50	1	120
R2-76945		95	<2	32	6	>1000



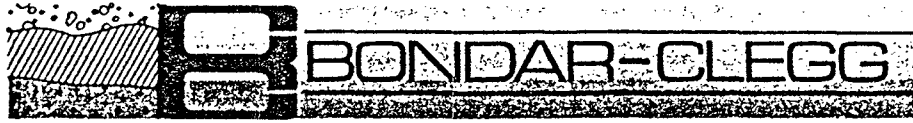
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SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
R2 74601		0.07	<0.7	R2 76941		0.38	<0.7
R2 74602		0.72	<0.7	R2 76942		0.10	<0.7
R2 74603		0.14	<0.7	R2 76943		0.14	<0.7
R2 74604		0.07	<0.7	R2 76944		0.58	<0.7
R2 74605		0.07	<0.7	R2 76945		20.43	0.7
R2 74606		0.14	<0.7				
R2 74607		<0.07	<0.7				
R2 74608		0.34	<0.7				
R2 74609		0.10	<0.7				
R2 74610		0.10	<0.7				
R2 74611		0.17	<0.7				
R2 74612		<0.07	<0.7				
R2 74613		<0.07	0.7				
R2 74614		0.07	<0.7				
R2 74615		<0.07	0.7				
R2 74616		<0.07	<0.7				
R2 74617		<0.07	<0.7				
R2 74618		0.07	<0.7				
R2 74619		0.07	<0.7				
R2 74620		0.31	1.0				
R2 74621		0.07	<0.7				
R2 74622		0.45	1.7				
R2 74623		0.10	<0.7				
R2 74624		0.10	<0.7				
R2 74625		0.07	<0.7				
R2 76926		0.21	<0.7				
R2 76927		0.75	<0.7				
R2 76928		0.72	1.0				
R2 76929		0.45	<0.7				
R2 76930		0.14	<0.7				
R2 76931		0.17	<0.7				
R2 76932		0.10	<0.7				
R2 76933		0.10	<0.7				
R2 76934		0.10	<0.7				
R2 76935		0.10	<0.7				
R2 76936		0.14	<0.7				
R2 76937		0.10	<0.7				
R2 76938		0.14	<0.7				
R2 76939		1.17	<0.7				
R2 76940		0.17	<0.7				





DDH-86-6

REPORT: 126-4856

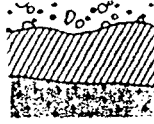
L.H (JK)

PROJECT: 135 8609-117

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM
[REDACTED]		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	R2 95407		22	4	33	140
[REDACTED]		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	R2 95408		16	8	28	67
[REDACTED]		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]						
[REDACTED]		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]						
74680		30	4	47	46						
2 74681		27	5	55	43						
2 74682		12	2	62	13						
2 74683		16	2	59	26						
2 74684		35	3	55	13						
74685		24	3	52	29						
74686		41	3	58	120						
2 74687		40	2	39	150						
74688		24	2	31	38						
2 74689		16	2	30	38						
74690		16	<2	32	37						
74691		22	3	34	51						
[REDACTED]		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]						
95401		20	5	59	300						
95402		10	10	17	70						
95403		23	6	46	300						
95404		76	3	35	130						
2 95405		83	4	40	100						
95406		16	5	42	130						

Bondar-Clegg & Company Ltd.  
10 Pemberton Ave.  
North Vancouver, B.C.  
Canada V7P 2J5  
Phone: (604) 985-0681  
Telex: 04-352667



**BONDAR-CLEGG**

Certificate  
of Analysis

8610-062

REPORT: 426-5366

LH 86 - 6 J.K.

PROJECT: 135

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	As PCT
D2 24214		0.14	<0.7	0.01
D2 24215		0.21	<0.7	<0.01
D2 24216		0.31	<0.7	<0.01
D2 24217		0.21	<0.7	<0.01
D2 24218		0.24	<0.7	<0.01
D2 24219		0.41	<0.7	<0.01
D2 24220		0.14	<0.7	<0.01
D2 24221		0.07	<0.7	<0.01
D2 24222		0.07	<0.7	<0.01
D2 24223		0.10	<0.7	<0.01
D2 24224		0.14	<0.7	<0.01
D2 24225		0.07	<0.7	<0.01
D2 24226		<0.07	<0.7	<0.01
D2 24227		<0.07	<0.7	<0.01

Bondar-Clegg & Conway Ltd.  
130 Pemberton Ave.  
North Vancouver, B.C.  
Canada V7P 2R5  
Phone: (604) 983-0681  
Telex: 04-152667



Geochemical  
Lab Report

REPORT: 126-5366

LH 86-6 (JK)

PROJECT: 135 8610-062 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM
24214		25	6	57	<1
24215		36	9	48	<1
24216		22	8	54	<1
24217		15	8	63	<1
24218		9	5	76	<1
24219		16	5	76	<1
24220		16	5	65	<1
24221		6	7	94	<1
24222		15	6	64	<1
24223		19	6	70	<1
24224		10	16	57	<1
24225		12	7	68	<1
24226		24	8	56	<1
24227		15	7	62	<1

86 JK GD DP

APPENDIX E  
STATEMENT OF COSTS

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COSTS

PROJECT: LH  
TYPE OF REPORT: Diamond Drilling

DATE: December 8, 1987

a) Wages:

No. of Days 47 man days  
Rate per Day \$120.00  
Dates From: August 20 - October 4, 1986  
Total Wages 47 x \$ 120.00 \$ 5,640.00

b) Food & Accomodations:

No. of Days 47  
Rate per Day \$75.00  
Dates From: August 20 - October 4, 1986  
Total Costs 47 x \$75.00 \$ 3,525.00

c) Transportation:

No. of Days 47  
Rate per Day \$40.00  
Dates From: August 20 - October 4, 1986  
Total Costs 47 x \$ 40.00 \$ 1,880.00

d) Instrument Rental:

Type of Instrument  
No. of Days  
Rate per Day \$  
Dates From:  
Total Costs x \$

Type of Instrument

No. of Days  
Rate per Day \$  
Dates From:  
Total Costs x \$

e) Analysis: \$ 5,790.75  
(See attached schedule)

f) Cost of preparation of Report  
Author: \$ 350.00  
Drafting: \$ 180.00  
Typing: \$ 140.00

g) Other:  
Contractor  
Rainbow Diamond Drilling  
Merritt, B.C. \$ 58,912.39

NOTE: Contractor costs incurred after  
September 30, 1987 were \$4,236.50

Total Cost \$ 76,418.14

h) Unit costs for  
No. of Days  
No. of Units 284.45 metres  
Unit costs 268.65 / metre  
Total Cost 284.45x\$ 268.65 \$ 76,418.14  
268.65

NORANDA EXPLORATION COMPANY, LIMITED

(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT:

<u>ELEMENT</u>	<u>NO. OF DETERMINATIONS</u>	<u>COST PER DETERMINATION</u>	<u>TOTAL COSTS</u>
Au **	223	\$ 5.75	\$ 1,282.25
Ag **	223	\$ 5.75	\$ 1,282.25
Cu *	223	\$ 2.00	\$ 446.00
Pb *	223	\$ 1.00	\$ 223.00
Zn *	223	\$ 1.00	\$ 223.00
Mo *	223	\$ 1.00	\$ 223.00
As *	124 geochem.	\$ 3.75	\$ 465.00
As **	81 assay	\$10.00	\$ 810.00
Sample Prep.	223	\$ 3.75	\$ 836.25
		TOTAL:	\$ 5,790.75

\* geochemically analyzed

\*\* fire assay

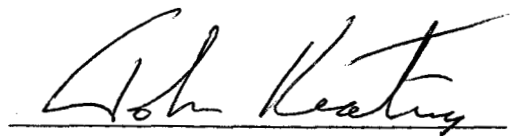
APPENDIX F  
STATEMENT OF QUALIFICATIONS



STATEMENT OF QUALIFICATIONS

I, John G. Keating of the City of Vancouver, Province of British Columbia, do hereby certify that:

- I am a resident of British Columbia, residing at 335 East 47th Avenue, Vancouver, B.C.
- I am a graduate of Concordia University, Montreal, with a Bachelor of Science Degree in Geology.
- I am a member in good standing with the Canadian Institute of Mining and Metallurgy.
- I have been a temporary employee with Noranda Exploration Company, Limited (No Personal Liability) since May, 1979 and a permanent employee since March, 1983.



John G. Keating  
Project Geologist

Noranda Exploration Company, Limited  
(No Personal Liability)

The core was logged by Dave Devin, graduate (1985)  
geologist of U. of Alberta

T.K.

STATEMENT OF QUALIFICATIONS

I, Ian G. Mitchell of the City of Vancouver, Province of British Columbia, do hereby certify that:

I am a geologist residing at 2044 West 29th Avenue, Vancouver, B.C.

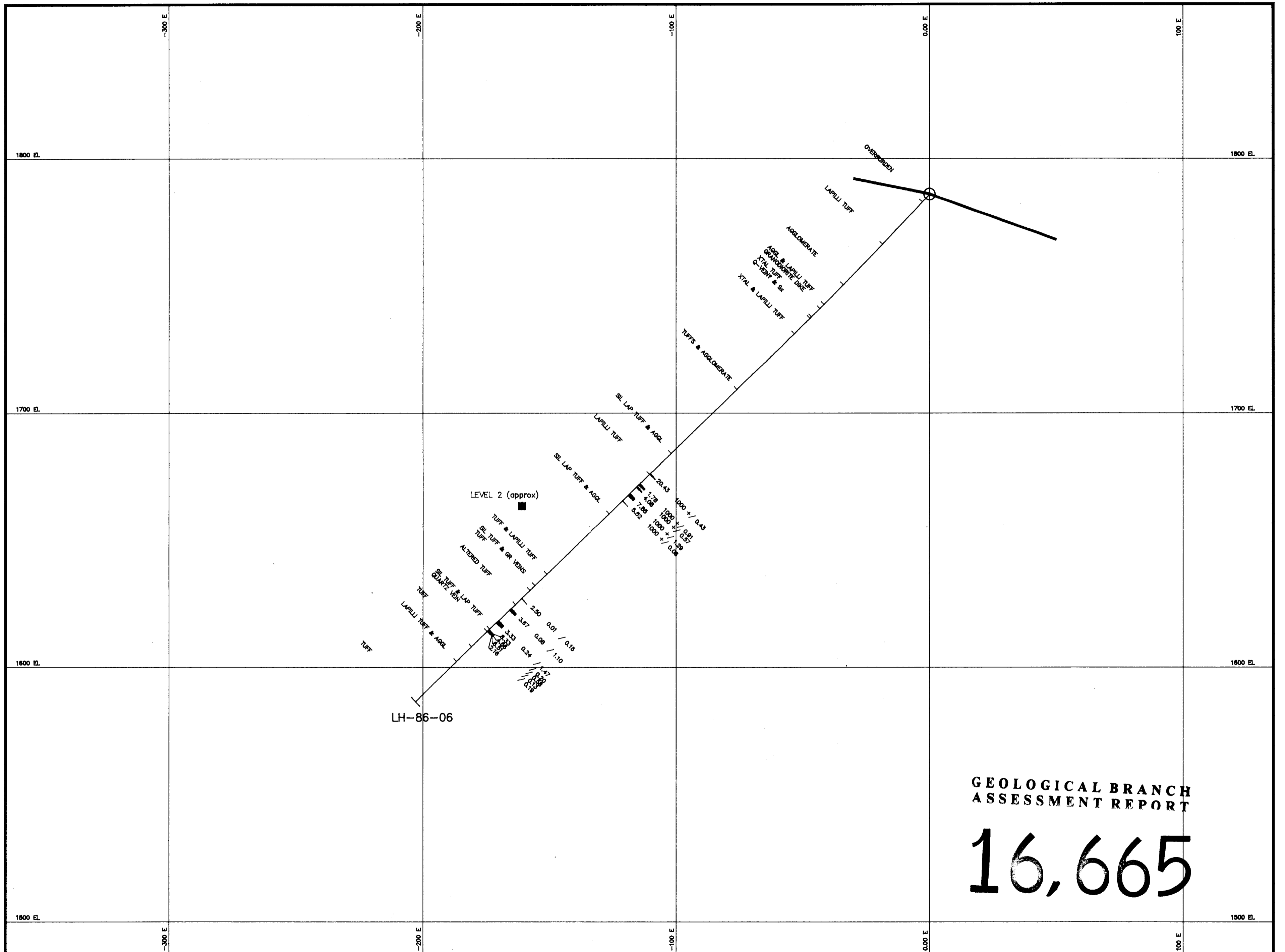
I have graduated from the University of British Columbia in 1983 with a B. Sc. in geology.

I have worked in mineral exploration since 1978.

I have been employed by Noranda Exploration Company, Limited, intermittently since May, 1983.

---

Ian G. Mitchell



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,665

DATE	REVISION	INITIAL
24FEB87	SECTION Renumbered for 1986 Summary Report	JDW

ABBREVIATIONS:

AGGL	Agglomerate	GWKE	Greywacke
ALTD	Altered	LAP	Lapilli
BL	Bleached	SIL	Silica/Silicified
Bx	Breccia	Sx	Sulfides
GR	Granite	XTAL	Crystal (tuff)

ASSAYS:

Au As / Interval  
 Au assays [gram/tonne] >1.5 gram/tonne  
 As assays [ppm] if value integral  
 [ % ] if format of value n.dd  
 \* following assay indicates above detection limit  
 \* following assay indicates below detection limit

**noranda**  
 NORANDA EXPLORATION Co. Ltd.

COMPOSITION	5	10
1 BORDER/TITLE	6	11
2 OUTLINE	7	12
3 DHGEOL	8	13
4 DHASSY	9	14

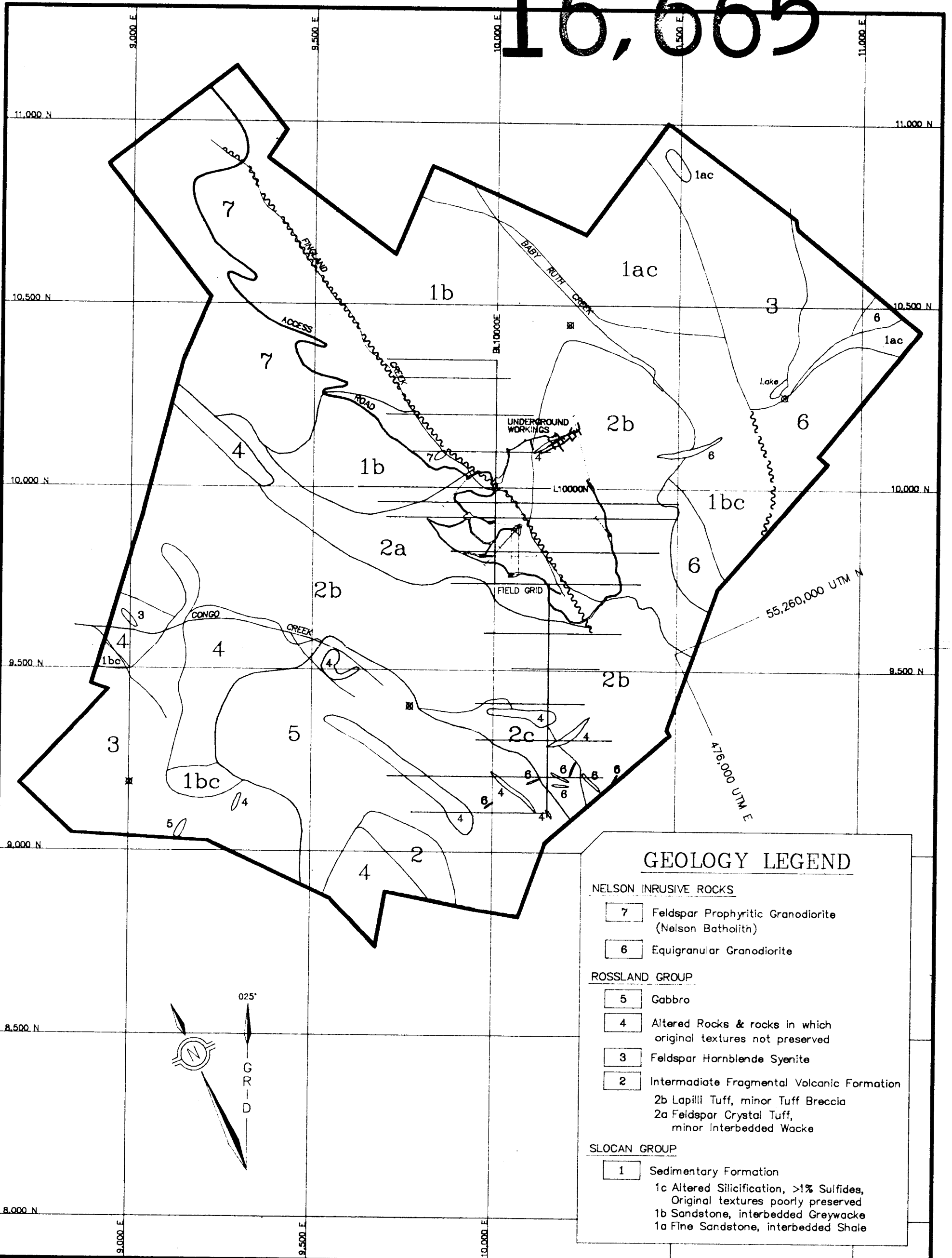
20 METRES 0 10 20 30 40

LH PROJECT 1987  
 DRILL HOLE LH-86-06  
 Section Looking 075°Az

DATE DRAWN: FEBRUARY 1987	SCALE: 1 : 1,000	DWG.No.
DRAWN By: J.D. WILLIAMS, P.Eng.	JOB No. LH Report	4
APPROVED By:	N.T.S. 82F/14	

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

# 16,665



### GEOLOGY LEGEND

**NELSON INTRUSIVE ROCKS**

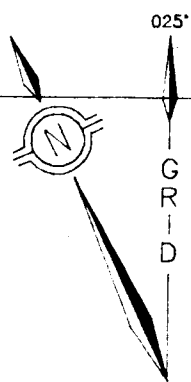
- 7 Feldspar Prophyritic Granodiorite (Nelson Batholith)
- 6 Equigranular Granodiorite

**ROSSLAND GROUP**

- 5 Gabbro
- 4 Altered Rocks & rocks in which original textures not preserved
- 3 Feldspar Hornblende Syenite
- 2 Intermediate Fragmental Volcanic Formation
  - 2b Lapilli Tuff, minor Tuff Breccia
  - 2a Feldspar Crystal Tuff, minor Interbedded Wacke

**SLOCAN GROUP**

- 1 Sedimentary Formation
  - 1c Altered Silicification, >1% Sulfides, Original textures poorly preserved
  - 1b Sandstone, interbedded Greywacke
  - 1a Fine Sandstone, interbedded Shale



**noranda**  
NORANDA EXPLORATION Co. Ltd.

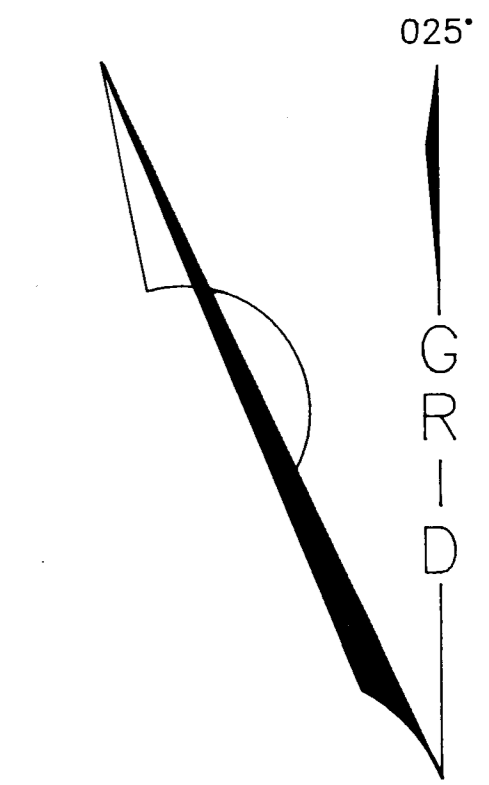
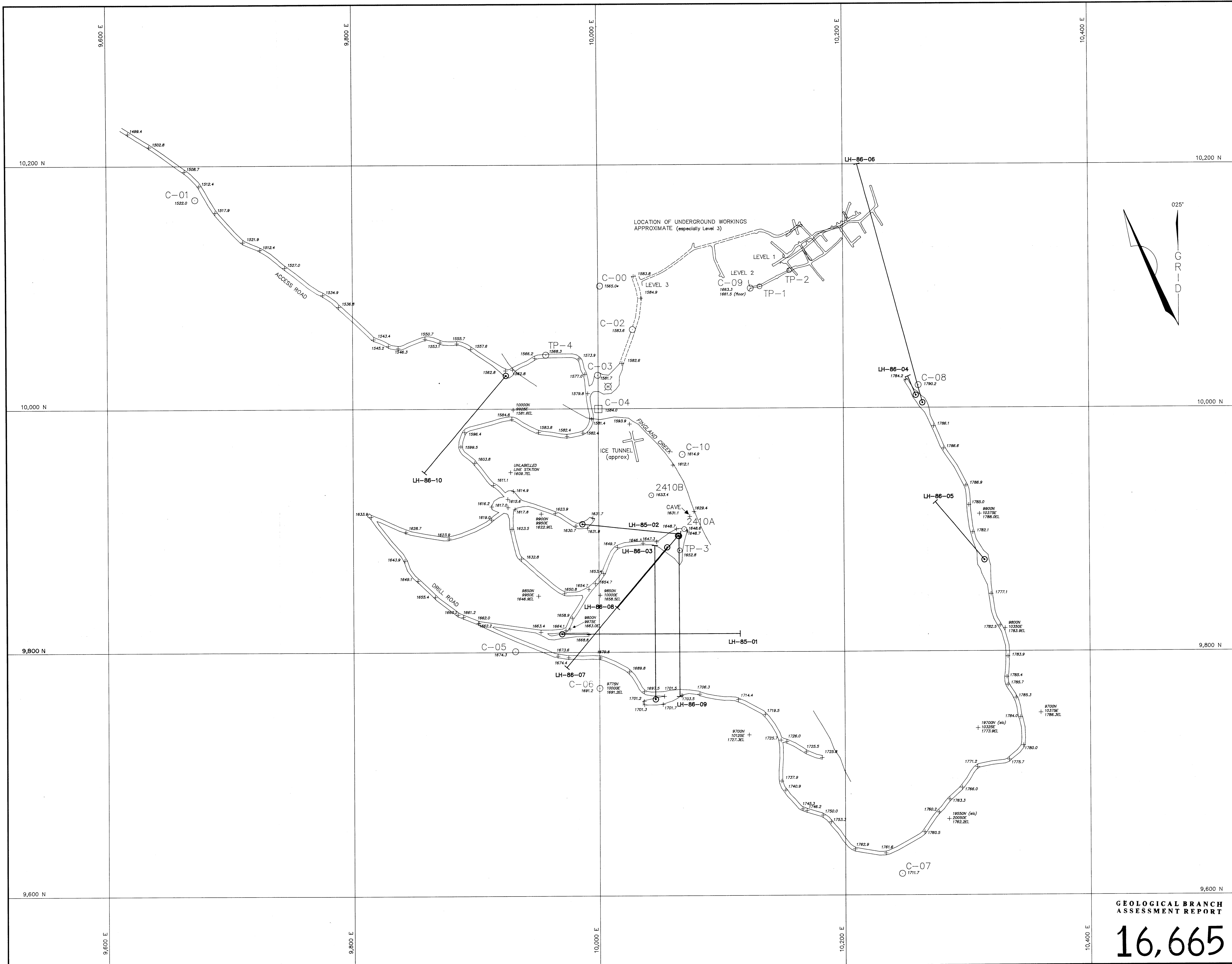
COMPOSITION	5	GEO-CONTACTS	10	DRILLINGS
1 BORDER/TITLE	6	UG-LEVEL 1	12	11 FIELD GRID
2 BOUNDARY	7	UG-LEVEL 2	13	
3 DRAINAGE	8	UG-LEVEL 3	14	
4 ROADS	9			

200 METRES 0 100 200 300 400

**LH PROJECT 1987**

**PROPERTY PLAN**  
Including Underground & Drilling

DATE DRAWN: FEBRUARY 1987	SCALE: 1 : 10,000	DWG.No.
DRAWN By: J.D. WILLIAMS, P.Eng.	JOB No. LH Report	<b>2</b>
APPROVED By:	N.T.S. 82F/14	



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,665**

**LH PROJECT 1987**

**SURVEY PLAN  
Including Drill Holes**

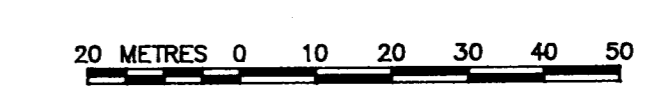
DATE	REVISION	INITIAL
24/09/87	Plan renumbered for 1988 Summary Report	JW

**LEGEND**

- + 1700.5 Surveyed Point—elevation (metres)
- 9700N  
+ 10375E  
1786.3E Surveyed Field Grid station location w/ picket label & elevation
- C-07  
1711.7 Survey Station w/ elevation (metres)



COMPOSITION	S—CONTROL	DH—LINE
1 BORDER/TITLE	6 S—ELEVATION	11
2 ROADS	7 UG—LEVEL 1	12
3 DRAINAGE	8 UG—LEVEL 2	13
4	9 UG—LEVEL 3	14



DATE DRAWN: FEBRUARY 1987	SCALE: 1:1,000	DWG No:
DRAWN BY: J.D. WILLIAMS, P.Eng.	JOB No: LH Report	3
APPROVED BY:	N.T.S. 82F/14	