MAP NO.:	ASSESSMENT REPORT	X	DOCUMENT NO: 092756
	PROSPECTUS		MINING DISTRICT: Watson Lake
105 F 16	CONFIDENTIAL	X	TYPE OF WORK: Geological, Geochemical
	OPEN FILE		Geophysical, Trenching

REPORT FILED UNDER: Noranda Exploration Co. Ltd.

DATE PERFORMED: March 20-April 1, May 15-June 13/89 **DATE FILED:** October 4, 1989

LOCATION: **LAT.:** 61o 48'N **AREA:** Ross River

LONG.: 32o 03'W **VALUE $:** 16,000

CLAIM NAME & NO.: LS 1-60 YB01352-01411; LUKESHANE 3-13,38,40,42-48 YA 71081-91, YA 7116, 118,120-126

WORK DONE BY: H. Copland

WORK DONE FOR: Noranda Exploration Co, Ltd.

DATE TO GOOD STANDING:

REMARKS: # 43 BRUCE LAKE Noranda performed a geophysical survey (HLEM,MAG), geochemical survey, geological mapping and trenching. Klondike schist is intruded by mafic and ultramafic rocks (CARB-PERM.) of the Anvil Allocthon. Volcanic breccias are likely related to extensive Tertiary volcanism. Geochemical and geophysical surveys, and trenching were uneffective in pinpointing source of auriferous float on the south shore of Nickel Lake, and m be at the intersection of faults under the lake.

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
OCT 18 1989
WHITEHORSE
YUKON TERRITORY

GEOLOGICAL, GEOCHEMICAL, TRENCHING & GEOPHYSICAL REPORT

on the

LUKESHANE PROPERTY

LS 1-60 & LUKESHANE 3-13, 38, 40, 42-48 CLAIMS

Watson Lake Mining District

N.T.S.: 105 F/16

Latitude: 61 48'N

Longitude: 132 03'W

092756

Owned & Operated by;

Noranda Exploration

201-107 Main St.

Whitehorse, Yukon

Y1A 2A7

H. Copland

September, 1989

RECEIVED
OCT 1989
MINING RECORDER
WATSON LAKE, YT.
1A & N.D

This report has been examined by the Geological Evaluation Unit under section 32 (1) Yukon Quartz Mining Act and is allowed as assessment work in the amount of 16,000.00.

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

TABLE OF CONTENTS

	Page
Title Page	
Summary	
Table of Contents	
List of Figures	
CHAPTER 1: INTRODUCTION	
1-1 Introductory Statement	1
1-2 Location & Access	1
1-3 Topography & Vegetation	1
1-4 Claim Definition	1
1-5 History	6
1-6 1989 Work Program	7
CHAPTER 2: GEOLOGY	
2-1 Regional Geology	8
2-2 Property Geology	8
CHAPTER 3: GEOPHYSICS	
3-1 Procedure	13
3-2 Results	13
CHAPTER 4: GEOCHEMISTRY	
4-1 Procedure	16
4-2 Results	16
CHAPTER 5: TRENCHING	
5-1 Procedure	17
5-2 Results	17
CHAPTER 6: CONCLUSIONS & RECOMMENDATIONS	18
Statement of Costs	19

Page

Selected References 22

Statement of Qualifications 23

LIST OF FIGURES

Figure	1:	Location Map	1:2,000,000	2
	2:	Location Map	1:250,000	3
	3:	Property Location	1:50,000	4
	4:	Claim Map	1:30,000	5
	5:	Regional Geology	1:250,000	9
	6:	Grid Location	1:10,000	in pocket
	7:	Central Grid Geology	1:5,000	"
	8:	Magnetometer Survey	1:5,000	"
	9:	SE-88 EM Survey	1:5,000	"
	10:	Line 16100E Mag Model		
	11:	Regional Magnetometer	1:50,000	in pocket
	12:	North Grid Geochem	1:5,000	"
	13:	Central Grid Geochem	1:5,000	"
	14:	South Grid Geochem	1:5,000	"

APPENDICES

Appendix 1: Results & Rock Desriptions 24

SUMMARY

The Lukeshane property consists of 80 claims located adjacent to the Robert Campbell Highway 30km southeast of Ross River, YT. The claims were staked to cover an area of auriferous float found on the shores of Nickel Lake. In 1989 after optioning the claims from Mr. A. Carlos, Noranda performed a geophysical survey (HLEM, Mag), geochemical survey, geological mapping and trenching program. The surveys were hampered by a thick glacial cover on the property. An expanded magnetometer survey and diamond drilling beneath the lake are recommended to test the suspected source of the gold bearing float.

CHAPTER ONE: INTRODUCTION

1-1: Introductory Statement

The Lukeshane property consists of 80 claims located between Bruce Lake and Horton Creek, 30km southeast of Ross River. This report covers geophysics (HLEM, mag), trenching, geochemistry and geology conducted over the property during 1989.

1-2: Location & Access (see Fig, 1,2,3)

The property is located near the Pelly River at Bruce and Nickel Lakes 30km southeast of Ross River (NTS 105 F/16, Lat.; 61 48'N, Long.; 132 03'W). The Robert Campbell Highway passes through the northwestern boundary of the claim block. Access into Nickel Lake and the centre of the property is via a 4WD road and cat trail off the highway.

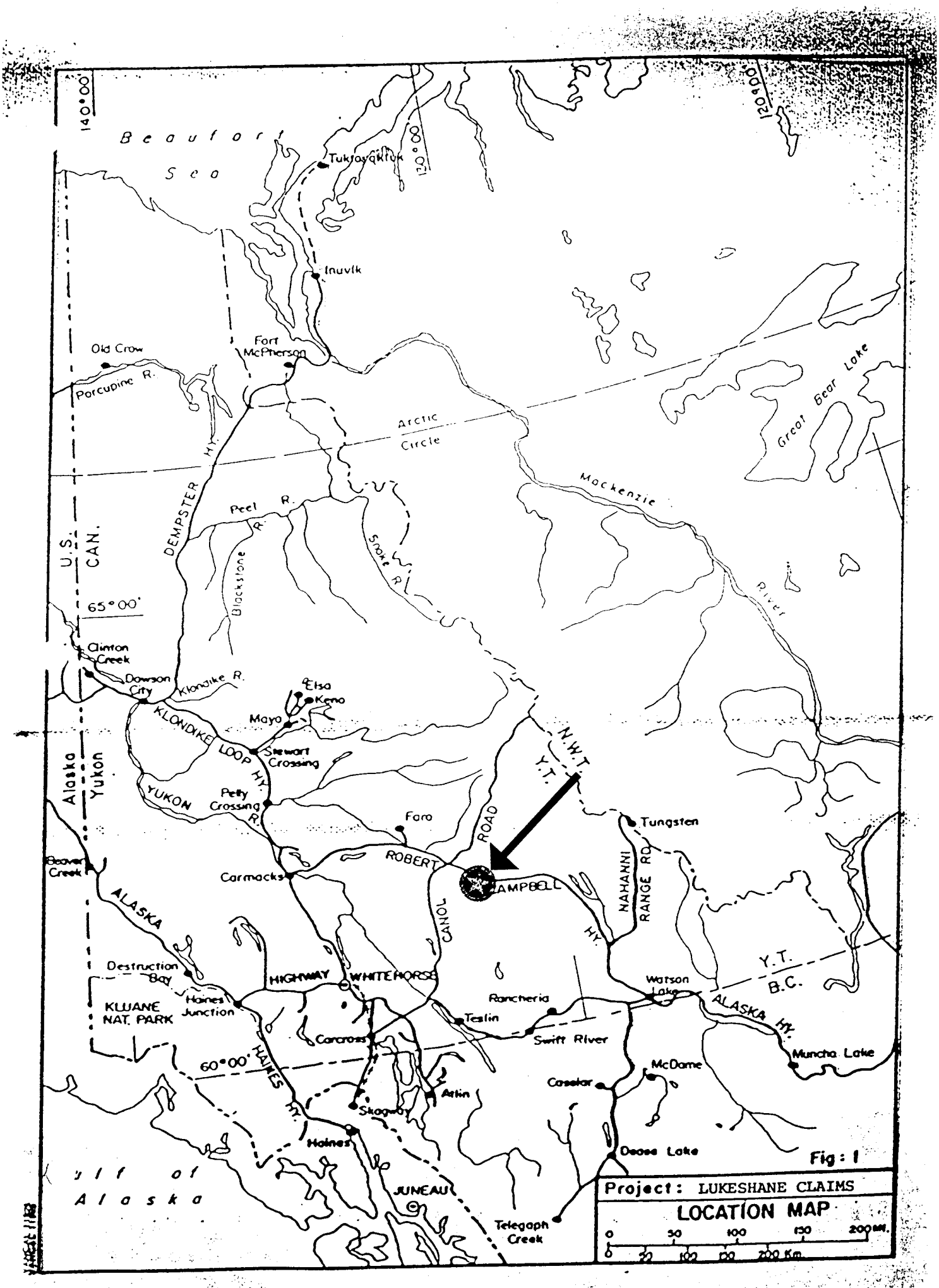
1-3: Topography & Vegetation

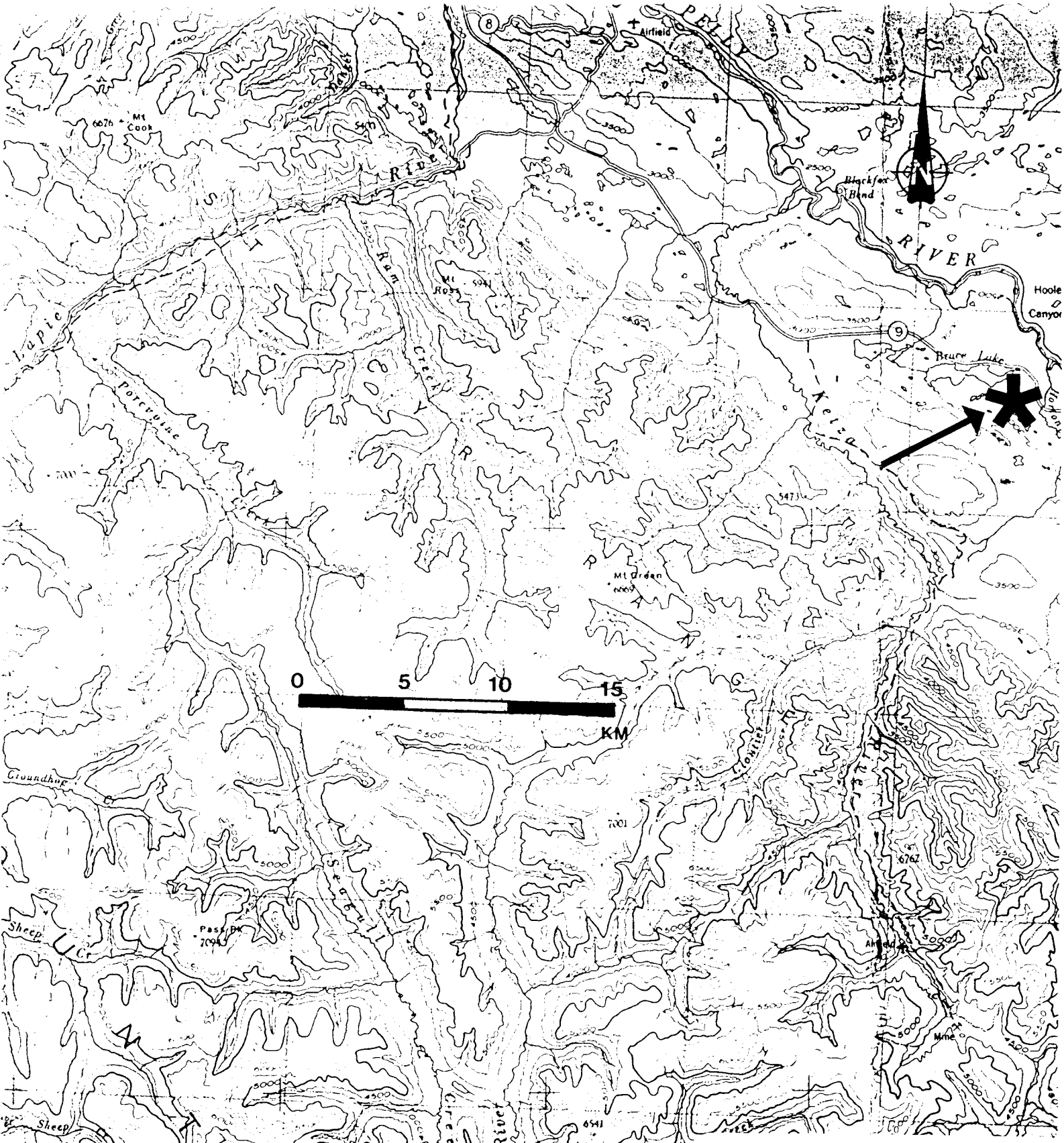
The claims lie just northeast of the St. Cyr Range of the Pelly Mountains, in the Pelly River Valley. Topography is gentle with a maximum variation in elevation from 915 metres in the southwest to 820 metres at Bruce Lake.

Vegetation is predominately spruce with minor stands of aspen and birch. Evidence of old fires can be seen throughout the property.

1-4: Claim Definition (see Fig. 4)

The Lukeshane property consists of the following claims:


Beaufort Sea
Tuktoyaktuk
Inuvik
Old Crow
Fort McPherson
Porcupine R.
DEMPSTER HY.
Arctic Circle
Great Bear Lake
Mackenzie
Peel R.
Blackstone
Snake R.
River
U.S.
CAN.
65°00'
Clinton Creek
Dawson City
Klondike R.
Elsa
Keno
Mayo
KLONDIKE LOOP HY.
Stewart Crossing
YUKON
Petty Crossing
R.
Alaska
Yukon
Faro
ROAD
N.W.T.
Y.T.
Tungsten
Beaver Creek
Carmacks
ROBERT CAMPBELL HY.
CANOL
NAHANNI RANGE RD.
ALASKA
Destruction Bay
HIGHWAY
WHITEHORSE
Watson Lake
Y.T.
B.C.
KLUANE NAT. PARK
Haines Junction
Rancheria
Teslin
ALASKA HY.
Carcross
Swift River
Muncho Lake
60°00'
HAINES HY.
McDame
Caselar
Atlin
Skagway
Haines
Dease Lake
Gulf of Alaska
JUNEAU
Telegraph Creek
Fig : 1
Project: LUKESHANE CLAIMS
LOCATION MAP
0 50 100 150 200 mi.
0 50 100 150 200 Km.

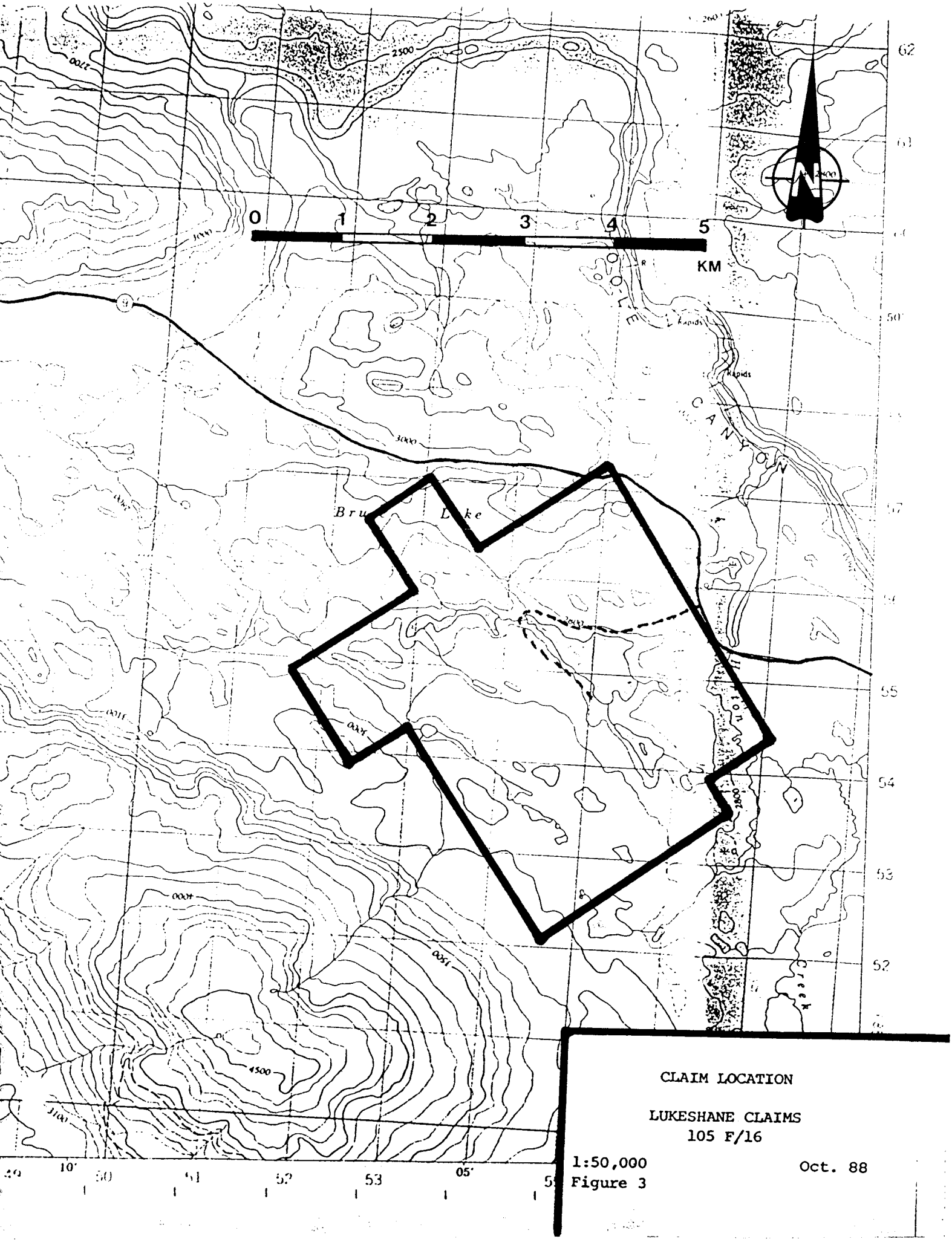


LUKESHANE PROPERTY

CLAIM LOCATION

105 F/16 Nov. 88

Fig.2 1:250,000

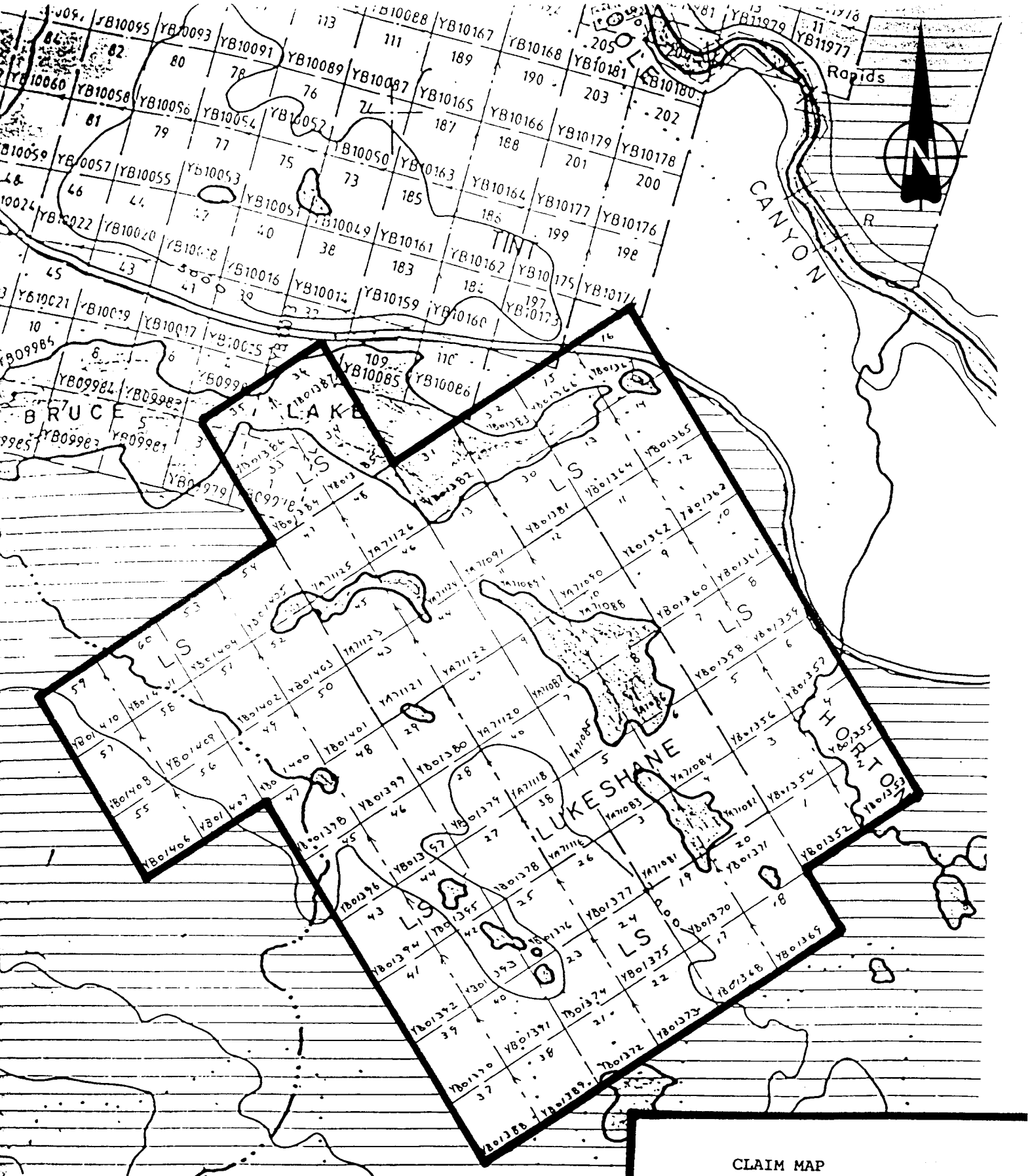


CLAIM LOCATION

LUKESHANE CLAIMS
105 F/16

1:50,000
Figure 3

Oct. 88



CLAIM MAP

LUKESHANE CLAIMS

1:30,000 Oct. 88

Figure 4

CLAIM NAME	GRANT NO.	RECORDED	ANNIVERSARY
Lukeshane 3-13	YA71081-71091	June 84	Dec. 14/92
38,40	YA7116, 71118	"	"
42-48	YA71120-71126	"	"
LS 1-60	YB01352-01411	Sept. 17/87	Sept. 17/91

1-5: History

The property was staked as MAG claim (86401) in April 1963 by Newmont following the release of GSC aeromag maps. Newmont conducted further airborne mag and EM surveys and prospected the adjacent area in 1963. Old pits and claim posts were found on Horton Creek, about 200 feet north of the highway.

The property was restaked in June 1965 as SAS claim (89119) by Frobex L (British Met Can L, Conwest and McIntyre Porcupine ML), which drilled three holes (827 feet) in 1966, formed a new company to develop the claims (Bruce Lake ML) and drilled four holes (1429 feet) in 1968 in a joint ventrue with Augustus EL. The drilling was conducted over EM and mag anomalies on the north side of Nickel Lake. They intersected disseminated sulphides in siliceous sediments intruded by a serpentinized peridotite sill. Best intersection reported was 0.39% Cu and 0.52% Ni over less than 1 metre.

Prospecting by A. Carlos of Whitehorse turned up chalcedonic and brecciated quartz float on the shores of Nickel Lake in the spring of 1984 and staked the Lukeshane claims. VLF and magnetometer surveys were subsequently conducted along with some bulldozer trenching in 1987. The LS claims were added in 1987 to

protect adjacent ground. Noranda conducted a preliminary mag survey over the LS claims in September 1988

The claims were optioned to Noranda Exploration in the fall of 1988 by Mr. Carlos.

1-6: 1989 Work Program

Linecutting was commenced on the property March 12/89, a geophysical survey (HLEM & magnetometer) followed between March 20 & April 1/89. Followup to the geophysics in the form of soil geochemistry, geological mapping and bulldozer trenching was commenced once the snow had gone on May 15 and was completed by June 13/89. The following personnel were involved on the program:

Jesse Duke	Field Geologist	Whitehorse
Diane Brent	" "	"
William Kerby	Geophysical Technician	Vancouver
Gary Lee	" "	Whitehorse
Mike Power	Geophysicist	"
Michael Muirhead	Field Asst.	Vancouver
Rod Young	" "	"
Malcolm Lamb	" "	Edmonton
Gordon Clark & Associates Ltd	Linecutting	
Ampex Mining Ltd.	Bulldozer, Trenching	

CHAPTER TWO: GEOLOGY

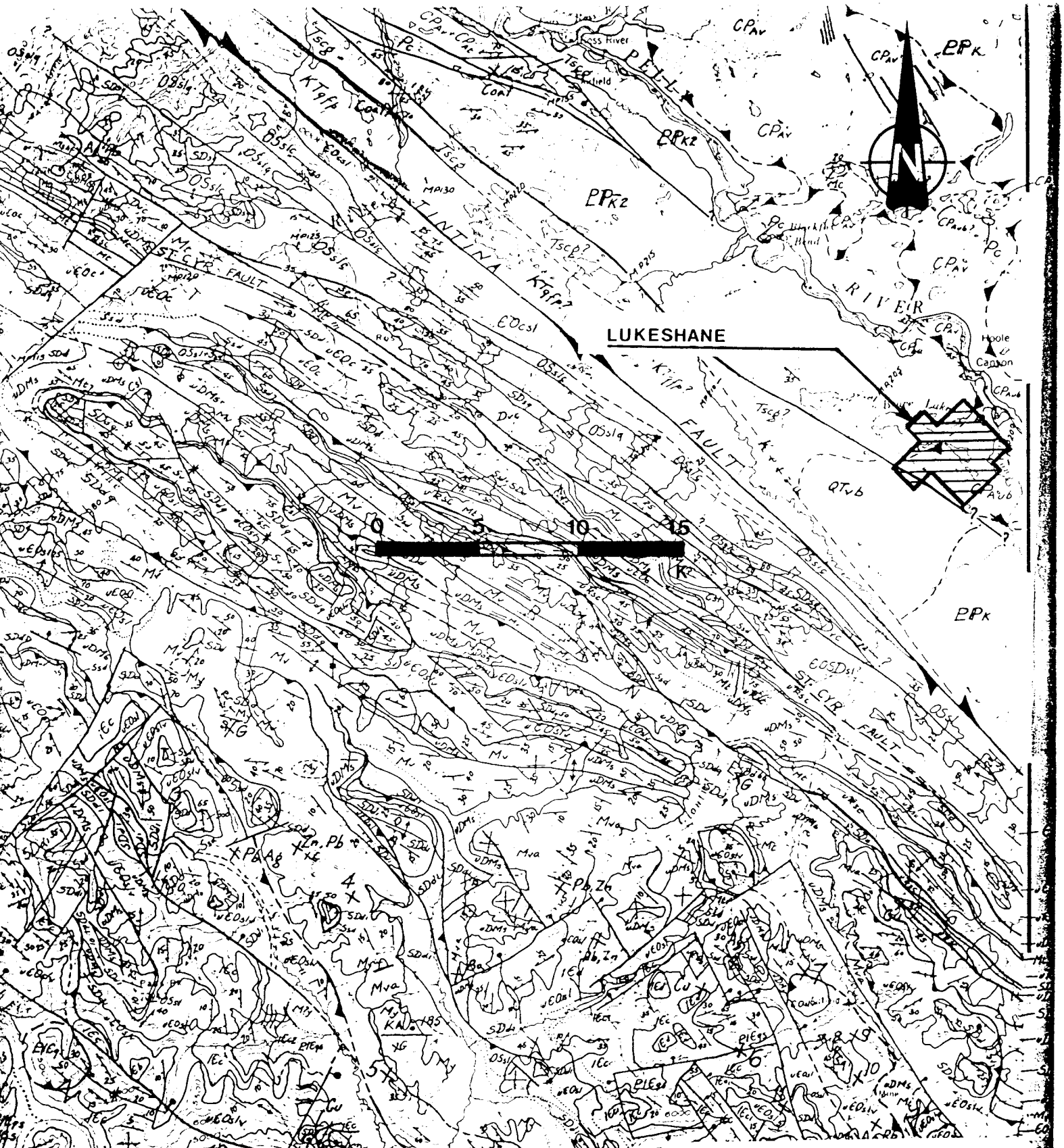
2-1: Regional Geology (see Fig. 5)

The claims lie along the northeast boundary of the Tintina Trench, a large transcurrent Tertiary-Cretaceous fault system. The trench in this area seperates two tectonic terranes; the Pelly-Cassiar terrane consists largely of phyllite, argillite, and chert of the Kechika Group whereas the Anvil terrane comprises mafic flows and tuffs. The Anvil units are thought to be allocthonous (Templeman-Kluit, 1977). Also present in the claim area are allochthonous units of Klondike Schist (quartz-chlorite phyllites) in a structurally complex sequence with the other units, northeast of the trench.

Within the Tintina Trench itself post and/or syn-tectonic units predominate namely sandstone, conglomerate and shale with minor coal beds and a clay altered quartz feldspar porphyry rhyolite. Fresh looking basalts appear to be the youngest units in the area (Tertiary-Quaternary).

2-2: Property Geology

Outcrop on the property is largely non-existent due to the till cover. Mapping of float in the till was attempted and concentrations of certain rock types were seen to occur near the central grid (see fig. 7). What little is known about the underlying geology on the claims can be pieced together with the knowledge of the regional geology, float, geophysics, and drilling done in the 60's. The drilling conducted mainly on the northeast side of Nickel Lake intersected siliceous metasediments



LUKESHANE PROPERTY

REGIONAL GEOLOGY

105 F/16 Nov. 88

Fig. 5 1:250,000

from Tempelman-Kluit 1977
Map 105 F

TABLE OF FORMATIONS

(adapted from Templeman - Kluit 1977)

TERTIARY

QTub: basalt

Tscg: sandstone, conglomerate, shale

Tgfp: quartz-feldspar porphyritic rhyolite

CARBONIFEROUS & PERMIAN

CPav: ANVIL ALLOCHTHON - amphibolite, greenstone, basalt, gabbro

CPas: serpentinite

CAMBRIAN & ORDOVICIAN

UEOsl: KECHIKA GROUP - phyllite

AGE UNKNOWN

PPK: KLONDIKE SCHIST

and quartzite with intercalated diorite, gabbro, pyroxenite and serpentinite. A brief description of these units (taken from drill logs) and float observed on surface is described below:

I) Metasediments: light to dark grey siliceous sediments with disseminated to patchy pyrite, commonly graphite on fracture surfaces, locally brecciated with minor white quartz veining.

II) Quartzite: light grey, glassy, fine to medium grained, bedded. Minor pyrite and pyrrhotite on fractures, locally shaly and recrystallized.

III) Gabbro (Diorite): fine to coarse grained, dark green, chilled margins indicate probably dyke or sills ranging in width from 5 to 30 metres, locally minor white quartz veinlets.

IV) Pyroxenite: typically dark grey-green and medium grained, locally highly weathered, and fractured with serpentine along fractures, disseminated pyrite and pyrrhotite, up to 75 metres wide as reported in some holes.

V) Serpentinite: black to dark green, highly fractured, minor chrysolite fibres observed, moderately magnetic, up to 35 metres wide on hanging wall of pyroxenite.

VI) Volcanic Breccia: this unit was found as concentrated float northeast of the small lake south of Nickel Lake. It is typically rusty weathering with large mafic volcanic clasts in a fine grained siliceous matrix. Clast size ranges from 1-30cm in size and are sub-angular to sub-rounded.

To generalize the claims are underlain primarily by metasediments of the Klondike Schist intruded by mafic and ultramafic rocks regionally mapped as Carboniferous and Permian

Anvil Allochthonous assemblages. The age of the volcanic breccias observed is unknown but probably related to extensive Tertiary volcanism and faulting associated with the Tintina Trench.

CHAPTER THREE: GEOPHYSICS

3-1: Procedure

The magnetometer survey was completed using an EDA total field proton magnetometer with base station. Readings were recorded at 12.5 metre intervals on lines 100 metres apart. A total of 26.0 km of line were done. All applicable corrections were applied to the data.

The HLEM survey employed a Scintrex SE-88 "Genie" instrument with a 100 metre coil spacing and readings taken every 25 metres. A total of 25.875 km of line were completed.

3-2: Results (from Bradish 1989, see Fig. 8,9)

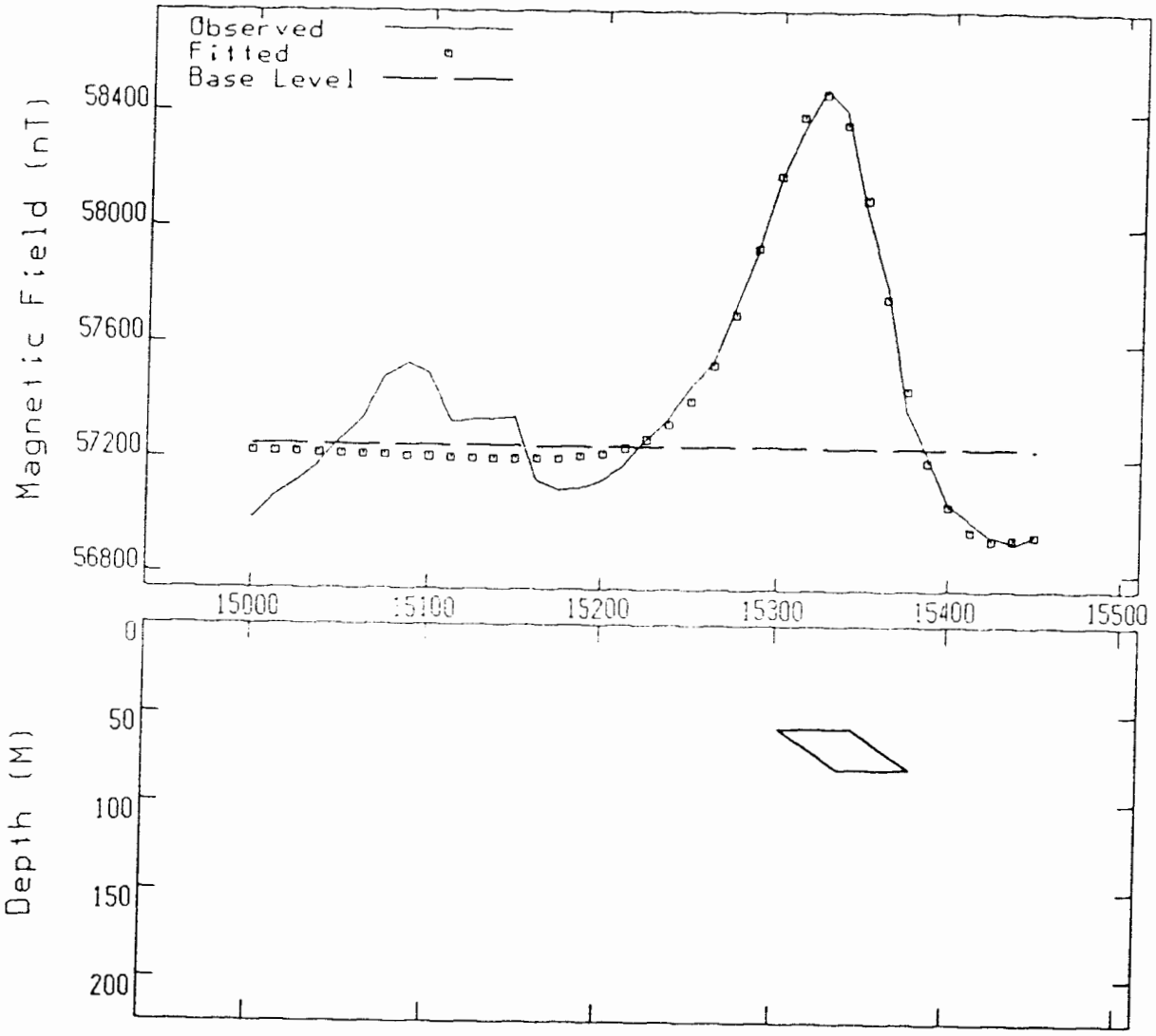
The SE-88 EM survey failed to detect any source of discrete bedrock conductivity. The high frequency data does show some responses primarily seen as 'edge effects' due to low resistivity zones. It is not possible to determine if these low resistivity zones are sourced by overburden or bedrock.

The magnetometer survey has mapped a number of narrow and discrete (magnetic) zones that are believed to be sourced by ultramafic dikes. Magnetic modelling of the anomaly located at L.16100E/15300N indicates the (local) source to be approximately 20 metres wide at a depth of 60 metres. (see Fig. 10)

The GSC 1:50,000 mag survey is shown in Fig. 11 for comparision.

LUKESHANE GRID

Line 16100E



MODEL PARAMETERS:

Model Type		TABULAR2
Depth	F	57.6 M
Half Width	F	20.6 M
Half Length	X	450 M
Dip	F	34 deg
Thickness	F	23.4 M
Susceptibility	F	0.0695 emu
Position	F	15323.87 M
Base Level	F	57238.61 nT
Base Slope	F	-.0242574 nT/M

(F-fitted, X-fixed, L-limit)

GEOMAGNETIC FIELD:

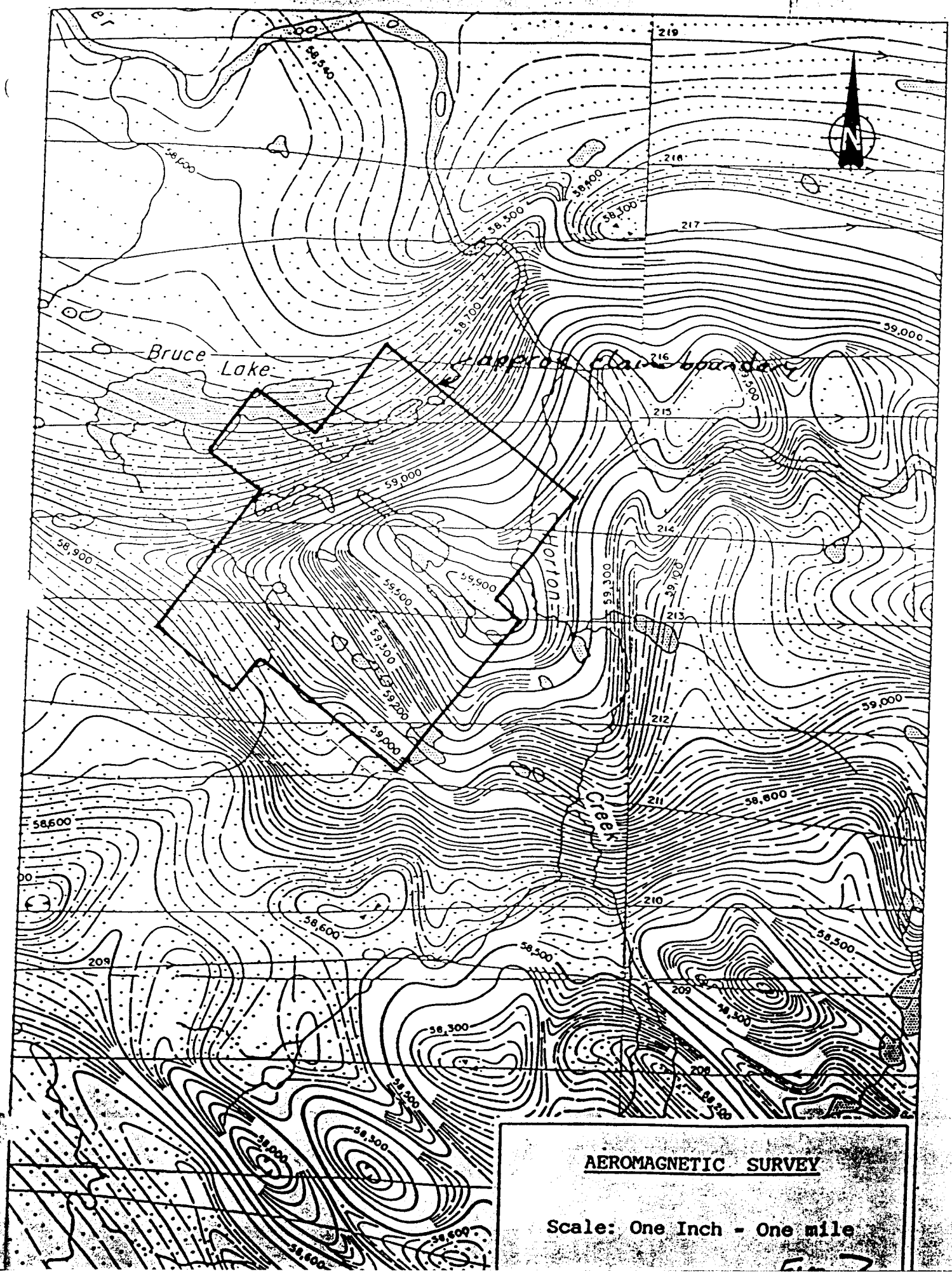
Field Strength	50000 nT
Inclination	75 deg
Declination	30 deg

PLAN DIRECTIONS:

Strike Perp	45 deg
Line Direction	45 deg

Fig 10

Geosoft MAGMOD-3 Modelling Result 89/04/14


Bruce Lake
Horton Creek
AEROMAGNETIC SURVEY
Scale: One Inch - One mile

CHAPTER FOUR: GEOCHEMISTRY

4-1: Procedure

Soil samples were collected on three grids: south, central and northern (see Fig. 6). Samples were collected from the B-horizon which in this area consists exclusively of glacial till. Samples were taken at 50 metre intervals on lines 100 metres apart. The soil was placed in standard Kraft soil bags and shipped to Acme Analytical Labs for preparation and ICP analysis. Gold analysis by Atomic Absorbtion was done by Noranda's Vancouver Lab. A total of 415 soils were collected over the claim blocks.

Rock samples were collected where possible. Most of these consisted of float as no true outcrop was observed. Analysis by ICP and AA (Au) was done similiar to the soils. A total of 23 rocks were collected.

4-2: Results

Complete soil and rock results are included in the appendix. Plots of the results are on figures 12 - 14. Soil results were disappointing, not surprisingly due to the amount of till. Most samples reflected background except for a few spot highs (eg. 7200N, 8050E @235 ppb Au). The typical gold indicators As, Hg, Sb did not show any trends. Zinc values were elevated in some discreet zones probably indicate of higher background in zinc for the rocks of that area.

A couple of spot anomalies occured in rock samples. The best being 96 ppb Au from 15600E, 15085N. A sample collected by Mr. A. Carlos from Trench #1 ran 144 ppb Au and >1000 ppm As.

CHAPTER FIVE: TRENCHING

5-1: Procedure

A D-7E cat was used to repair the road and to cut three more trenches on the property along the south west side of Nickel Lake (see Fig. 7). Permafrost problems were encountered in each trench. All were stripped off and down as far as possible then left to thaw and restripped a couple of weeks later.

5-2: Results

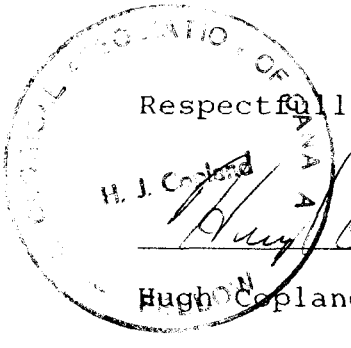
Due to the frost and the thickness of the till no true outcrop was intersected in the trench. Previous trenching met with the same problem and further trenching does not appear to be a useful tool on the property. The following table indicates trench locations and the approximate amount of material moved.

TRENCH	CO-ORDINATES	CLAIMS	MATERIAL MOVED (cu. m.)
TR-01	16200E,15150N	Lukeshane 9	35m X 5m X 2m = 350
TR-02	15900E,15150N	Lukeshane 9	45m X 5m X 2m = 450
TR-03	15600E,15130N	Lukeshane 11	85m X 5m X 1m = 425
			TOTAL 1225 cu.m.
			(1600 cu.yd.)

CHAPTER SIX: CONCLUSIONS & RECOMMENDATION

Geochemical surveys and trenching are ineffective on this property. The geophysical survey was inconclusive in pinpointing the source of auriferous float found on the south shore of Nickel Lake by Mr. A. Carlos. An expanded ground geophysical survey (magnetometer) over the entire claim block may provide additional clues as to the underlying structure and geology.

Regional geology and airphoto linears indicate the strong possibility that intersecting faults occur under the lake in this area. The similarities in these structures to the Grew Creek deposit are quite evident. The location of the auriferous float along the lakeshore is in the same vicinity as these faults. A drill hole set up on the south shore of the lake and drilled under the lake into these structures would be a realistic option. This appears to be the most reasonable source of the gold bearing material at present.



Respectfully submitted by;

Hugh Copland

District Geologist

STATEMENT OF COSTS

A/ LUKESHANE 3-10, 38, 40, 42-45, 47-48

I)	TRENCHING	
	(frozen ground) (800 cu.m. TR-1&2)	
	1050 cu. yd. X $1.50/yd	$1,575.
II)	LABOUR	
	Geologist (Diane Brent) 4 X $125/day	500.
	Asst. (R. Young) 2 X $100/day	200.
	Report Prep. (H. Copland) 1 X $150/day	150.
		850.
III)	FOOD & ACCOMODATION	
	8md X $50/day	400.
IV)	TRANSPORTATION	
	truck rental 5 days X $50/day	250.
	gas & oil	150.
		400.
V)	ANALYSIS	
	6 trench samples X $15/sample	90.
VI)	Draughting, typing, computer time	200.
	TOTAL	$3,515.

STATEMENT OF COSTS

B/ LUKESHANE 11-13, 46

I) TRENCHING		
	(frozen ground) (425 cu.m. TR-03)	
	555 cu. yd. X $150/yd	$ 832.
II) LABOUR		
	Geologist (D. Brent) 1 X $125./day	125.
	Report Prep (H. Copland) .5 X $150.	75.
		200.
III) FOOD & ACCOMODATION		
	2md X $50/day	100.
IV) TRANSPORTATION		
	Truck Rental 1 day X $50/day	50.
	Gas & oil	50.
		100.
V) ANALYSIS		
	3 trench samples X $15/sample	45.
VI) Draughting, typing, computer time		50.
	TOTAL	$1,327.

STATEMENT OF COSTS

C/ LS 1-60 CLAIMS

1) LABOUR			
	Geologist	(J. Duke) 2 X $125/day	$ 250.
	"	(D. Brent) 10 X $125/day	1,250.
	Asst.	(R. Young) 12 X $100/day	1,200.
	"	(M. Muirhead) 14 X $100/day	1,400.
	"	(M. Lamb) 14 X $100/day	1,400.
	Geologist	(H. Copland) 1 X $150.	150.
			5,650.
II) ANALYSIS			
	215 soils X $15/ sample		3,225.
III) FOOD & ACCOMODATION			
	50 md X $50/day		2,500.
IV) TRANSPORTATION			
	truck rental 10 X $50/day		500.
	gas & oil		200.
	sample freight		300.
			1,000.
V) Draughting, Typing, Computer Time			200.
		TOTAL	$12,575.

SELECTED REFERENCES

Bradish L.,

1988: Lukeshane Magnetometer Survey, Noranda Exploration Company Limited, internal memo

1989: Lukeshane Mag & HLEM Survey, Norex Internal Memo

Bruce Lake Mines Ltd.,

1966: Diamond Drill Logs, Bruce Lake Area, Y.T.

Carlos A.,

1985: Property Report on the Lukeshane Mineral Claism; unpublished

Copland H.,

1988: Geophysical Report on the Lukeshane Property, LS 1-60 Claims; Assessment Report

MacKay, G.

1988: Property Examination Report on the Lukeshane Claims, Noranda Exp. Co. Ltd., internal memo

Templeman-Kluit D.J.,

1977: Geology of the Quiet Lake (105F) and Finlayson Lake (105G) Map Sheets, GSC of 486.

STATEMENT OF QUALIFICATIONS

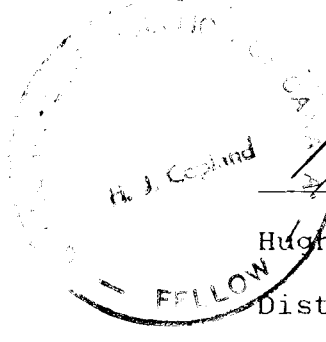
I, Hugh Copland of the City of Whitehorse, Yukon, do hereby certify that:

1) I have been an employee of Noranda Exploration Co. Ltd. (NPL) in Whitehorse since May, 1985.

2) I am a graduate of the University of British Columbia with a B.Sc. in Geology and of McMaster university, Hamilton, Ontario with a B. Eng..

3) I am a member of the Yukon Professional Geoscientist Society, and a fellow of the Geological Association of Canada.

4) I supervised work on the claims during 1989.



Hugh Copland
District Geologist

APPENDIX

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY LUKESHANE

N.T.S. 105 F/6

DATE June 1, 89

PROJECT 320

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
16090E	Volcanic mafic breccia		Boulder									D.B
1589ON	-polymictic w/ mafic volcanic (basalt) frags + some ultramafic frags. (Size: 1-30cm)											
	-finergrained fragmental matrix											
	-heterogeneous texture.											
	[some frags → felty fsp. phenos in dk grey aphanitic gndmss.											
16091E	Ultramafic - pyroxenite (?)	Tr	Boulder									D.B
1589ON	- m. green, coarse	Mt										
	crystalline w/ minor Biotite											
	- slightly magnetic											
15100E	Siliceous Pebble Conglomerate		Float									D.B
15075N	-grey, buff + white w/ grey siliceous (chert) frags: 1-10cm											
	- patchy rusty alteration											
	-some milky qz											
	- near sample R48678											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY LUKESHANE

N.T.S. 105 P16

DATE June 1, 1989

PROJECT 320

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
15600E	-Mixture of 2 types odd rocks.		Float									D.B.
15085N	1) Mixture of graphite, qz, mostly siliceous, multi-colored, moderately altered w/ rusty yellow patches.											
	2) Mostly graphitic material w/ chert & qz (veins?)											
16100E	Extremely altered/bleached rk.		Float									D.B.
15X80N	-grey & off-white											
0	-original texture obliterated											
	-appar. fragmental rk											
	-spotty limonite alteration											
	-looks similar to siliceous conglomerate.											
16365E	Intermediate volcanic		Hand									D.B.
15200N	- rusty brown on weathered surface, med. grey on fresh		Pit (S/C)									
	- fine grained matrix w/ loc. fragmental texture (pyroclastic?)		Subcrop									
	-loc. acicular feldspar											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

(3)

N.T.S. 105 F16

PROPERTY LUKESHANE

DATE June 1, 1989

ROCK SAMPLE REPORT

PROJECT 320.

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
16375E	Siliceous conglomerate	Py	Hand	5x5m								D.B.
15250N	-w/ 1mm thick band. py	<1%	Pit.									
	- qz grains fairly rounded to strained ellipsoidal		(S/C)									
16630E	Mafic/Ultramafic rock.		Boulder									D.B.
4999N	- Dark greenish grey/black rock											
	- minor feldspar needles in dark hypocrystalline matrix											
	- few biotite + qz x-stals											
16450E	Strongly metamorphosed rk		Cobble									D.B.
16730N	- light greyish green											
5	- 10-15% Bi, 10% garnet or red qz in altered grunged up matrix											
15403E	Pyroxenite		Cobble									D.B.
4973N	- Dark green, coarse grained											
	- equigranular w/ minor Bi											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY LUKESHANE

N.T.S. 105 F/6

DATE June 1, 1989

PROJECT 320

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
15850E	Boulder of 2 rock types.		Boulder.									D.B.
15175N	-siliceous congl. w/ felsic dyke rock.											
	-heterogeneous texture.											
	-some chunks coarse gr. others are f-grained											
	-surface → pale grey											
	-fresh - brownish rusty grey (Fe-act.).											
16375E	Rusty crystalline siliceous rk		Hand									D.B.
15255N	-looks like dark qz vein		Pit									
	-med grey → fresh		(S/C),									
	-rusty brown on weathered s.		sub-crop									
15699E	Pebble Conglomerate	Py?										R.Y.
15390N	-similar to qz breccia but qz frags. are smaller, more rounded											
	-texture more homogeneous											
	-≈ 20% intergranular limonite spotting - weathered pyrite?											
	-also has 1cm wide qz veinlet through it											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 105 F/6

PROPERTY LUKESHANE

DATE June 2, 89

ROCK SAMPLE REPORT

PROJECT 320

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
	NORTHERN GRID											
9905N	Siliceous pebble conglomerate		Boulder	1x1m								R.Y.
10376E	-80% qz/chert frags +20% other (small grey frags)											
	-frags → 0.3 - 3cm.											
	-fresh → multicolored frags. within pale grey heterog. matrix											
	-weathered to reddish + rusty brown → hematization											
	-similar to 15100E/15075N											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 105 F/6

PROPERTY LUKESHANE

DATE June 15, 1989

ROCK SAMPLE REPORT

PROJECT 320

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
TR-03	Ultramafic / pyroxenite		Trench									D.B
-44851	- fg. dark green / fresh.		boulder									
	- slightly magnetic.											
	- 5 - 10% chlorite / biotite.											
	Loc: 15600E / 15170N.											
TR-03	Brown gravelly sand.		Dirt									D.B
44852	Loc. 15600E / 15130N.											
TR-03	Same as 44852		"									D.B
44853	Loc: 15600E / 15100N											
TR-02	Very rusty + altered siliceous		French									D.B
44854	+ graphitic rock		cobble.									
	- colours: rust, yellow, grey, white											
	Loc: 15900E / 15170N.											
TR-02	Brown sandy gravel.		Dirt.									D.B
44855	Loc: 15900E / 15150N											
TR-02	Same as 44855.		"									D.B.
44856.	Loc: 15900E / 15130N											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 105 F/6

PROPERTY LUKESHANE

DATE June 15, 89

ROCK SAMPLE REPORT

PROJECT 320

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
TR-01	Very rusty massive siliceous		Trench									DB
44857	rock		boulder									
	-similar to those found in AL's											
	hand pits.											
	-purplish rusty tint characteristic											
	of sulphide alteration.											
	Loc: 16200E/15190N											
TR-01	Pebbly gravel (brown)		Dirt									DB
44858	-soil is coarser here → looks like											
	c-horizon.											
	Loc: 16200E/15160N											
TR-01	Same as 44858 but pebbles		"									DB
44859	are smaller											
	-next to very rusty silceous											
	breccia cobbles											
	Loc: 16200E/15130N.											

G = GEOCHEM A = ASSAY

Lukeshare (DB)

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 SOIL P2 HUMUS P3 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUN 16 1989 DATE REPORT MAILED: June 23/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-060 320 File # 89-1560 Page 1

Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	HG PPB
1	12	16	78	.1	24	8	169	2.59	10	5	ND	3	18	1	2	2	46	.27	.034	14	27	.42	483	.02	3	1.24	.01	.04	1	1	50
1	10	15	133	.1	18	7	295	2.01	3	5	ND	2	15	1	2	2	35	.25	.035	13	20	.34	452	.03	4	.99	.01	.05	2	1	30
1	10	14	74	.2	25	8	272	2.35	11	5	ND	3	24	1	2	2	34	.36	.048	13	24	.38	376	.03	2	.98	.01	.05	1	1	40
1	12	14	89	.1	24	8	222	2.53	8	5	ND	3	23	1	2	2	39	.37	.061	14	25	.50	386	.03	3	1.22	.01	.07	1	2	30
1	15	18	110	.1	24	10	226	2.87	11	5	ND	4	27	1	2	2	35	.45	.081	17	24	.42	291	.03	3	1.03	.01	.08	1	2	40
1	20	18	80	.3	37	10	201	2.85	15	5	ND	3	26	1	2	2	38	.51	.030	16	28	.50	527	.03	4	1.20	.01	.05	1	4	30
1	17	15	81	.1	31	9	365	2.68	10	5	ND	3	27	1	2	2	37	.49	.021	21	26	.58	447	.03	3	1.19	.01	.06	1	1	40
1	11	15	94	.1	25	9	279	2.67	4	5	ND	3	19	1	2	2	37	.28	.040	18	25	.49	444	.03	2	1.14	.01	.06	1	1	40
1	14	17	88	.1	28	10	217	2.89	9	5	ND	4	17	1	2	2	47	.20	.027	19	28	.53	593	.03	3	1.49	.01	.06	1	1	50
1	12	16	119	.1	24	9	205	2.62	8	5	ND	3	18	1	2	2	44	.27	.030	17	27	.43	494	.03	3	1.25	.01	.05	1	1	40
2	16	13	82	.1	32	9	209	2.76	15	5	ND	3	22	1	2	2	39	.35	.059	18	27	.50	420	.03	3	1.16	.01	.05	1	1	20
1	11	21	115	.1	24	8	196	2.86	12	5	ND	2	22	1	2	2	39	.38	.047	16	25	.50	382	.02	3	1.22	.01	.06	1	1	40
1	10	19	81	.1	25	9	169	2.75	14	5	ND	1	24	1	2	3	39	.43	.037	15	25	.48	441	.02	3	1.23	.01	.06	1	1	30
1	13	12	84	.2	20	8	219	2.60	12	5	ND	2	26	1	2	2	39	.50	.028	12	23	.47	487	.03	4	1.18	.01	.06	1	1	30
1	8	16	61	.1	21	5	125	2.21	6	5	ND	1	20	1	2	2	31	.32	.027	13	21	.50	313	.03	5	.97	.01	.05	1	3	20
1	12	10	78	.1	22	7	255	2.10	8	5	ND	1	24	1	2	3	29	.38	.033	12	22	.41	313	.03	2	.85	.01	.05	1	1	30
1	18	30	89	.2	34	9	268	2.90	15	5	ND	1	55	1	2	3	38	.86	.043	16	33	.62	567	.02	5	1.21	.01	.04	1	1	20
1	9	14	97	.2	17	8	199	2.32	5	5	ND	3	19	1	2	3	42	.26	.021	14	22	.45	403	.04	3	1.21	.01	.05	1	1	20
1	15	14	81	.2	27	8	182	2.37	13	5	ND	4	22	1	2	2	37	.29	.042	15	24	.47	398	.03	5	1.12	.01	.06	1	2	30
1	22	14	86	.4	29	8	214	2.72	16	5	ND	3	32	1	2	2	37	.48	.052	16	26	.54	372	.02	3	1.12	.01	.09	1	4	70
2	23	19	159	.2	40	11	485	3.60	21	5	ND	4	50	1	2	2	37	.90	.076	17	28	.69	335	.05	8	2.31	.07	.08	1	1	90
1	24	8	84	.4	37	9	380	2.05	11	5	ND	5	208	1	2	2	29	6.09	.089	13	24	1.13	672	.05	12	.79	.03	.08	2	3	80
17	61	40	132	7.1	72	31	930	4.06	36	18	7	36	49	17	17	22	57	.53	.086	37	55	.90	172	.07	33	1.77	.06	.13	11	52	1400

NORANDA EXPLORATION CO. LTD. PROJECT 8906-060 320 FILE # 89-1560

Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	HG PPB
	5	2	79	.1	2	1	89	.21	6	5	ND	1	85	1	2	2	2	2.09	.065	2	3	.40	78	.01	8	.09	.01	.05	1	1	140
	6	6	72	.1	4	1	31	.12	6	5	ND	1	77	1	2	2	1	1.88	.066	2	2	.42	43	.01	7	.05	.01	.03	1	2	120
	4	4	60	.1	2	1	14	.04	9	5	ND	1	52	1	2	2	1	1.39	.061	2	1	.47	40	.01	14	.02	.01	.05	1	1	110
	4	3	89	.1	3	1	53	.06	9	5	ND	1	96	1	2	2	1	2.60	.066	2	1	.57	78	.01	15	.03	.01	.03	1	1	150
	20	6	44	1.0	9	2	15	.84	2	5	ND	1	67	2	2	2	8	.92	.115	5	3	.11	316	.01	14	.51	.01	.04	1	2	150
	8	2	45	.2	4	4	6771	.28	9	5	ND	1	138	1	2	2	9	3.94	.107	2	1	.50	376	.01	23	.10	.01	.06	1	5	130
	16	6	49	.2	15	4	1777	1.28	5	5	ND	1	86	1	2	2	18	2.13	.098	5	11	.62	473	.04	18	.51	.03	.06	1	1	120
	13	4	16	.1	4	2	664	.42	6	5	ND	1	147	1	2	2	12	3.84	.071	2	2	.31	233	.01	19	.22	.01	.02	1	1	70
	7	6	75	.3	3	2	620	.10	7	5	ND	1	122	1	2	2	2	3.57	.060	2	1	.42	76	.01	19	.07	.01	.03	1	4	130
	11	2	55	.1	3	1	38	.19	4	5	ND	1	97	1	2	2	3	2.76	.055	2	2	.44	43	.01	6	.18	.01	.02	1	3	90
	9	2	70	.3	5	1	62	.25	5	5	ND	1	133	1	2	2	4	3.85	.066	2	2	.47	90	.01	12	.16	.01	.03	1	1	120
	32	12	47	.3	27	7	320	1.41	18	5	ND	1	201	1	2	2	23	2.30	.063	6	12	.95	440	.03	8	.65	.04	.04	1	1	50
	11	2	40	.1	5	2	267	.22	5	5	ND	1	118	1	2	2	4	3.07	.058	2	2	.48	76	.01	17	.14	.01	.03	1	2	100
	13	2	54	.2	4	1	31	.31	5	5	ND	1	122	2	2	2	3	3.14	.039	3	2	.32	155	.01	14	.23	.02	.03	1	1	80
	13	4	47	.1	6	2	52	.44	2	5	ND	1	102	1	2	2	7	2.44	.048	3	3	.25	155	.01	3	.32	.01	.04	1	1	70
	63	39	132	6.7	72	30	1018	4.12	40	18	7	37	51	18	14	22	59	.50	.090	38	56	.92	179	.07	32	1.98	.06	.13	12	52	1300

NORANDA EXPLORATION CO. LTD. PROJECT 8906-060 320 FILE # 89-1560

	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
[illegible]	2	17	4	35	.2	25	8	336	1.61	2	5	ND	8	6	1	2	2	39	.16	.002	8	48	.08	20	.01	7	.31	.01	.05	2	1	40
[illegible]	1	35	9	119	.3	59	22	1218	5.58	2	5	ND	7	71	1	2	2	70	.82	.025	17	46	.44	339	.10	20	1.48	.01	.44	1	2	80
[illegible]	8	63	4	69	.1	68	14	508	2.71	12	5	ND	3	51	1	2	2	38	1.39	.071	10	46	1.30	278	.03	19	.66	.01	.10	1	11	40
[illegible]	10	45	5	20	.8	28	8	325	2.15	11	5	ND	3	53	1	4	2	24	.27	.071	8	15	.13	57	.01	12	.13	.01	.11	1	89	100
[illegible]	3	38	4	89	.2	49	10	468	2.36	11	5	ND	2	58	1	2	2	27	1.65	.059	9	41	.84	320	.02	4	.47	.01	.09	1	8	60
[illegible]	4	44	5	92	.3	47	10	417	2.18	8	5	ND	2	55	1	2	2	44	1.26	.055	8	23	.51	279	.02	11	.45	.01	.07	1	7	60
[illegible]	1	12	2	59	.1	1001	94	1069	7.33	7	5	ND	1	16	1	2	2	9	.19	.024	2	237	22.74	29	.01	24	.24	.02	.11	2	1	20
[illegible]	2	54	11	60	.3	94	15	418	2.39	9	5	ND	3	47	1	2	2	33	.88	.093	11	54	1.89	482	.03	4	.73	.02	.08	1	1	40
[illegible]	1	167	6	52	.4	121	21	452	2.56	13	5	ND	2	69	1	2	2	27	2.34	.056	7	81	2.29	367	.02	15	.56	.01	.07	1	1	40
[illegible]	19	63	41	132	6.9	74	31	1032	4.21	42	21	7	39	53	19	18	22	61	.53	.095	40	55	.94	178	.07	31	2.04	.05	.14	11	510	1300

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL PULP HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUN 16 1989 DATE REPORT MAILED: June 22/89 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-016 320 File # 89-1554 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
7200E-7900E	1	18	12	80	.3	24	6	472	2.12	12	5	ND	1	51	1	2	2	41	.75	.027	13	23	.36	529	.03	5	1.14	.01	.05	1	10
7200E-7850E	2	14	21	177	.1	15	13	966	2.46	10	5	ND	1	24	1	2	3	56	.37	.058	13	24	.25	624	.02	2	1.60	.01	.04	1	20
7200E-7800E	2	13	17	110	.1	29	7	212	2.49	11	5	ND	3	24	1	2	2	35	.33	.074	17	29	.54	308	.04	12	1.10	.01	.06	1	10
7200E-7850S	1	22	16	136	.1	27	13	686	3.49	7	5	ND	2	29	1	2	2	54	.43	.043	15	28	.60	612	.06	2	2.03	.02	.05	1	30
7200E-8100E	1	13	13	118	.1	21	10	251	3.00	13	5	ND	2	27	1	2	4	48	.43	.058	15	26	.47	548	.03	2	1.65	.01	.08	1	20
7200E-8150E	1	16	11	171	.1	19	9	463	2.27	8	5	ND	1	22	1	2	2	35	.32	.086	14	19	.30	518	.02	7	1.03	.01	.05	1	30
7200E-8200E	1	15	11	70	.1	27	8	169	2.47	14	5	ND	3	23	1	2	4	42	.35	.032	14	26	.44	575	.02	2	1.35	.01	.04	1	20
7200E-8250E	1	10	8	67	.1	13	6	97	1.98	5	5	ND	2	12	1	2	3	42	.15	.020	15	19	.32	295	.02	2	1.06	.01	.04	1	20
7200E-8300E	1	12	8	61	.1	22	8	131	2.22	17	5	ND	3	24	1	2	2	44	.35	.022	14	25	.44	492	.02	2	1.40	.01	.05	1	10
7200E-8350E	1	17	10	100	.1	25	9	267	2.43	13	5	ND	2	24	1	2	4	42	.35	.051	15	24	.43	516	.02	3	1.29	.01	.06	1	20
7200E-8400E	1	13	8	63	.1	22	7	158	2.07	7	5	ND	3	21	1	2	2	42	.26	.024	14	26	.45	487	.02	9	1.36	.01	.05	1	20
7200E-8450E	1	25	19	111	.1	25	10	457	2.55	12	5	ND	2	36	1	2	2	45	.59	.035	16	26	.50	736	.02	4	1.41	.02	.05	1	30
7200E-8500E	2	12	19	105	.1	13	7	245	2.13	9	5	ND	2	16	1	2	3	44	.26	.030	16	19	.29	396	.02	2	1.07	.01	.06	1	5
7200E-8550E	1	11	10	92	.2	11	5	237	1.34	2	5	ND	1	19	1	2	3	28	.29	.031	10	12	.19	284	.02	2	.68	.01	.06	1	20
7200E-8600E	2	12	6	65	.1	20	7	125	2.24	11	5	ND	3	15	1	2	2	40	.21	.033	15	22	.42	309	.02	2	1.14	.01	.05	1	10
7200E-8650E	2	13	11	70	.1	19	6	113	2.07	10	5	ND	2	21	1	2	2	40	.26	.049	13	20	.35	313	.02	5	1.08	.01	.06	2	10
7200E-8700E	1	13	12	92	.1	15	7	162	2.15	9	5	ND	1	19	1	2	3	39	.29	.048	11	19	.34	471	.02	6	1.18	.01	.07	1	20
7200E-8750E	2	11	11	77	.1	14	6	131	1.85	8	5	ND	1	24	1	2	3	38	.38	.031	13	19	.37	359	.02	3	1.17	.01	.05	1	10
7200E-8800E	1	12	12	86	.1	25	9	338	2.31	8	5	ND	1	27	1	2	2	40	.38	.068	14	26	.45	405	.02	2	1.17	.01	.07	1	20
7200E-8850E	1	50	13	165	.3	34	7	318	2.59	6	5	ND	1	93	1	2	3	44	1.65	.077	16	26	.66	742	.02	7	1.67	.02	.10	1	60
7200E-8900E	2	28	15	95	.1	35	11	278	3.04	13	5	ND	3	38	1	2	5	57	.72	.043	16	35	.64	473	.04	5	1.88	.01	.11	1	40
7200E-8950E	2	18	10	94	.2	24	8	165	2.83	17	5	ND	2	34	1	2	2	47	.76	.036	13	29	.47	615	.03	3	1.35	.01	.05	1	10
7200E-9000E	2	15	12	106	.1	30	9	255	2.62	18	5	ND	4	18	1	2	2	41	.25	.044	15	27	.45	534	.03	7	1.46	.01	.04	1	10
7200E-9050E	2	12	10	99	.1	21	8	209	2.50	12	5	ND	2	16	1	2	2	45	.22	.036	13	25	.36	509	.03	7	1.40	.01	.04	1	20
7200E-9100E	1	16	10	80	.1	26	9	220	2.60	11	5	ND	1	33	1	2	2	41	.63	.047	15	25	.49	633	.03	3	1.40	.01	.04	1	40
7200E-9150E	1	16	12	63	.1	37	8	187	2.60	5	5	ND	2	32	1	2	2	37	.51	.042	13	34	.71	676	.05	7	1.45	.02	.04	1	40
7200E-9200E	1	20	10	84	.2	30	9	278	2.98	11	5	ND	2	33	1	2	2	51	.55	.045	14	29	.64	574	.03	2	1.77	.01	.06	1	30
7200E-9250E	2	16	19	87	.1	28	11	357	3.15	15	5	ND	3	34	1	2	3	44	.58	.033	18	31	.72	507	.06	2	1.69	.01	.05	1	30
7200E-9300E	2	19	14	79	.1	39	11	245	3.21	12	5	ND	3	21	1	2	2	59	.23	.027	13	38	.64	700	.06	4	2.12	.01	.04	1	20
7200E-9350E	2	19	17	100	.1	36	10	198	3.29	13	5	ND	3	21	1	2	2	55	.29	.045	16	45	.63	555	.03	2	1.98	.01	.05	1	20
7200E-9400E	2	15	20	156	.1	27	9	226	2.54	8	5	ND	1	22	1	2	4	40	.34	.035	17	22	.58	459	.03	6	1.26	.01	.06	1	10
7200E-9450E	1	15	15	71	.1	30	9	199	2.92	14	5	ND	1	44	1	2	3	51	.66	.024	13	31	.61	577	.04	2	1.63	.01	.03	1	10
7200E-9500E	1	12	6	48	.1	193	30	359	3.33	5	5	ND	1	32	1	2	2	23	.52	.054	5	160	4.76	157	.07	3	.82	.01	.01	1	10
7200E-9550N	1	16	10	48	.1	22	6	253	1.87	7	5	ND	2	37	1	2	2	29	.61	.063	15	20	.52	259	.03	2	.91	.03	.03	1	40
7200E-9500N	1	17	17	67	.1	23	10	555	2.59	11	5	ND	3	25	1	2	2	45	.34	.031	15	27	.46	331	.03	11	1.38	.01	.08	1	10
7200E-9450N	1	13	10	57	.1	21	7	116	2.32	9	5	ND	4	16	1	2	2	46	.21	.028	15	29	.37	375	.03	7	1.35	.01	.04	1	10
7200E-9400N	18	62	39	132	6.8	73	31	1023	4.25	42	20	7	37	52	18	16	17	60	.50	.091	38	56	.92	174	.07	35	2.05	.06	.13	12	1100

NORANDA EXPLORATION CO. LTD. PROJECT 8906-016 320 FILE # 89-1554

Sample	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
[illegible]	1	27	9	79	.3	31	8	283	2.65	14	5	ND	3	38	1	2	2	36	.65	.080	17	26	.66	488	.04	7	1.16	.02	.05	1	60
[illegible]	2	18	10	103	.2	22	11	170	3.49	14	5	ND	1	27	1	2	2	65	.36	.034	12	33	.71	433	.05	3	2.26	.01	.05	1	20
[illegible]	1	19	15	73	.1	27	11	147	3.41	11	5	ND	1	30	1	2	5	55	.44	.057	11	32	.68	443	.04	6	2.39	.01	.05	1	30
[illegible]	1	28	8	79	.3	41	15	506	4.00	8	5	ND	3	52	1	2	2	49	.90	.075	19	33	1.45	690	.08	2	1.85	.05	.05	1	100
[illegible]	1	27	14	81	.1	32	18	889	4.35	11	5	ND	1	39	1	2	5	56	.55	.045	11	35	1.26	384	.08	2	3.12	.03	.04	1	10
[illegible]	1	24	19	102	.2	27	14	266	4.55	17	5	ND	3	29	1	2	2	65	.41	.046	12	38	1.15	443	.08	3	2.99	.02	.07	1	20
[illegible]	1	28	7	87	.1	32	15	267	5.29	13	5	ND	1	44	1	2	2	62	.74	.071	10	37	1.36	537	.08	8	3.15	.03	.06	1	10
[illegible]	2	19	16	126	.2	23	10	195	3.70	13	5	ND	3	30	1	2	2	54	.53	.031	14	30	.65	353	.06	2	2.08	.02	.08	1	5
[illegible]	1	13	10	124	.1	20	9	445	2.32	9	5	ND	1	29	1	2	2	39	.40	.043	14	27	.63	261	.03	8	1.37	.01	.11	1	5
[illegible]	1	12	14	89	.2	16	7	274	2.31	7	5	ND	3	17	1	2	2	45	.26	.032	15	24	.42	427	.03	4	1.34	.01	.06	1	10
[illegible]	2	16	10	70	.2	22	9	168	2.85	13	5	ND	3	21	1	2	2	44	.32	.041	14	30	.75	292	.04	7	1.41	.01	.05	1	10
[illegible]	1	16	11	84	.9	20	7	162	2.40	15	5	ND	1	18	1	2	2	39	.25	.058	15	23	.42	267	.02	2	1.11	.01	.03	1	20
[illegible]	2	30	16	113	.2	29	10	397	2.77	19	5	ND	3	31	1	2	2	45	.54	.049	18	26	.53	468	.02	5	1.32	.01	.10	1	40
[illegible]	2	58	17	134	.2	42	9	331	2.95	19	5	ND	1	67	1	2	2	52	1.34	.070	21	30	.64	556	.02	11	1.43	.01	.14	1	130
[illegible]	1	15	13	60	.1	26	6	140	2.18	15	5	ND	1	44	1	2	2	37	.65	.044	11	27	.50	1437	.04	12	1.25	.02	.04	1	20
[illegible]	2	13	13	74	.1	19	7	133	2.57	15	5	ND	3	20	1	2	2	45	.22	.039	13	28	.39	460	.03	4	1.41	.01	.06	1	20
[illegible]	1	15	14	104	.1	22	9	221	2.48	16	5	ND	1	20	1	2	2	45	.30	.044	14	26	.43	479	.04	2	1.48	.01	.07	1	10
[illegible]	1	21	16	154	.1	26	11	872	2.52	12	5	ND	1	38	1	2	2	45	.68	.057	16	31	.47	614	.02	7	1.36	.01	.07	1	30
[illegible]	1	9	14	121	.1	29	9	158	2.34	8	5	ND	3	18	1	2	2	34	.35	.029	14	32	.38	366	.03	2	1.07	.01	.06	1	5
[illegible]	1	13	16	94	.1	66	14	280	2.59	9	5	ND	2	22	1	2	2	31	.37	.024	12	44	.84	437	.02	4	1.15	.01	.03	1	5
[illegible]	1	14	5	94	.2	105	13	347	2.49	10	5	ND	1	26	1	2	2	28	.52	.037	9	41	.93	486	.02	4	.86	.02	.04	1	30
[illegible]	2	22	15	74	.3	39	11	450	2.97	25	5	ND	4	22	1	2	4	42	.32	.044	16	32	.45	428	.03	3	1.31	.01	.10	1	10
[illegible]	1	14	14	74	.1	25	8	146	2.37	11	5	ND	3	14	1	2	2	34	.20	.036	15	28	.40	232	.03	2	1.13	.01	.07	1	5
[illegible]	1	14	10	93	.1	29	8	174	2.49	10	5	ND	3	20	1	2	2	37	.30	.068	13	27	.41	351	.02	9	1.23	.01	.06	1	10
[illegible]	1	15	13	106	.1	27	8	186	2.38	22	5	ND	2	22	1	2	2	36	.32	.041	13	26	.42	410	.02	10	1.25	.01	.05	1	10
[illegible]	1	16	12	75	.1	21	6	172	2.34	9	5	ND	1	20	1	2	2	40	.27	.029	12	27	.44	400	.02	2	1.35	.01	.04	1	20
[illegible]	2	12	14	155	.1	22	9	310	2.38	6	5	ND	2	18	1	2	2	41	.28	.046	13	25	.39	459	.02	3	1.30	.01	.05	1	10
[illegible]	1	20	16	97	.1	40	9	245	2.77	14	5	ND	1	27	1	2	2	38	.40	.043	14	39	.48	444	.02	2	1.34	.01	.08	1	20
[illegible]	2	18	13	84	.1	34	9	205	2.73	16	5	ND	2	44	1	2	2	43	.51	.026	15	30	.63	456	.02	2	1.56	.01	.05	1	30
[illegible]	2	15	18	100	.1	23	8	155	2.62	15	5	ND	1	22	1	2	2	45	.31	.037	16	29	.48	570	.02	2	1.57	.01	.05	1	20
[illegible]	2	21	15	76	.2	28	9	223	2.82	17	5	ND	3	30	1	2	2	47	.40	.019	16	31	.58	544	.02	5	1.56	.01	.06	1	30
[illegible]	2	16	21	86	.1	31	9	162	3.17	22	5	ND	3	18	1	2	2	46	.24	.032	20	34	.56	561	.03	2	1.70	.01	.07	1	10
[illegible]	1	15	14	164	.2	26	11	937	2.46	8	5	ND	2	24	1	2	2	41	.35	.041	13	27	.35	584	.02	5	1.35	.01	.06	1	20
[illegible]	1	19	15	148	.1	28	10	398	2.95	10	5	ND	3	20	1	2	2	40	.33	.050	15	28	.42	417	.03	2	1.29	.01	.09	1	20
[illegible]	2	20	22	91	.1	37	11	255	3.31	26	5	ND	3	26	1	2	3	40	.39	.057	18	36	.52	362	.04	2	1.29	.01	.08	1	30
[illegible]	1	21	10	71	.1	41	10	235	2.91	17	5	ND	4	21	1	2	2	38	.32	.058	14	33	.46	327	.04	5	1.17	.01	.09	1	30
[illegible]	18	62	42	132	6.8	73	30	1023	4.18	44	19	7	37	52	18	14	21	60	.50	.092	38	58	.93	179	.07	34	1.96	.06	.14	11	1400

NORANDA EXPLORATION CO. LTD. PROJECT 8906-016 320 FILE # 89-1554

	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
[illegible]	1	20	21	193	.1	30	12	416	3.14	11	5	ND	2	36	1	2	2	57	.59	.039	14	31	.56	725	.07	4	2.03	.02	.06	1	20
[illegible]	1	15	14	56	.2	21	8	187	2.13	10	5	ND	2	15	1	2	2	35	.23	.022	13	24	.36	233	.03	3	.84	.01	.04	1	10
[illegible]	1	13	11	82	.2	31	11	297	2.76	14	5	ND	3	19	1	2	2	45	.28	.021	13	36	.57	427	.05	3	1.47	.01	.08	1	20
[illegible]	1	12	7	67	.1	21	6	121	2.05	8	5	ND	3	14	1	2	3	33	.20	.040	15	21	.33	209	.03	7	.89	.01	.06	1	10
[illegible]	1	10	13	152	.1	21	10	587	2.37	5	5	ND	2	18	1	2	3	34	.28	.055	16	21	.35	314	.03	7	1.09	.01	.09	1	10
[illegible]	1	13	11	160	.2	26	11	295	2.50	9	5	ND	5	17	1	3	2	45	.24	.063	16	25	.42	507	.03	2	1.42	.01	.05	1	20
[illegible]	1	9	17	127	.1	23	9	269	2.52	13	5	ND	2	19	1	3	2	51	.27	.029	15	26	.39	443	.03	2	1.39	.01	.05	1	10
[illegible]	1	9	12	90	.1	22	7	89	2.14	8	5	ND	2	25	1	2	2	44	.37	.024	12	23	.46	442	.02	5	1.51	.01	.03	1	20
[illegible]	1	14	15	127	.1	31	11	240	2.73	16	5	ND	3	23	1	3	2	56	.31	.039	16	30	.48	608	.03	2	1.83	.01	.05	1	10
[illegible]	1	22	15	192	.2	42	12	449	2.86	14	5	ND	1	32	1	2	2	45	.53	.042	17	29	.51	616	.03	3	1.32	.01	.06	1	20
[illegible]	2	12	9	109	.3	46	12	254	2.99	10	5	ND	4	27	1	3	2	45	.37	.026	16	45	.69	412	.03	4	1.61	.01	.07	1	30
[illegible]	2	19	12	74	.1	38	10	191	2.89	19	5	ND	4	20	1	2	3	46	.24	.031	22	38	.55	530	.03	7	1.49	.01	.07	1	20
[illegible]	1	11	7	52	.1	27	7	142	2.24	10	5	ND	3	17	1	2	2	39	.23	.022	12	29	.39	396	.03	2	1.19	.01	.06	1	20
[illegible]	2	15	17	174	.1	43	12	574	2.71	5	5	ND	2	22	1	2	2	44	.33	.050	16	35	.42	458	.03	6	1.35	.01	.08	1	10
[illegible]	2	16	10	94	.1	36	11	413	2.48	14	5	ND	3	27	1	2	2	37	.41	.090	13	25	.51	375	.03	2	1.08	.01	.07	1	40
[illegible]	1	10	9	60	.1	22	6	176	2.01	8	5	ND	3	15	1	2	2	31	.23	.032	14	23	.38	294	.03	3	.99	.01	.06	1	10
[illegible]	2	17	10	122	.2	36	9	314	2.76	11	5	ND	4	23	1	2	2	38	.32	.037	19	28	.52	392	.04	2	1.34	.01	.08	1	30
[illegible]	1	13	12	143	.1	34	10	315	2.62	10	5	ND	2	27	1	3	2	38	.47	.043	16	38	.61	365	.04	2	1.22	.01	.08	1	30
[illegible]	1	27	15	132	.2	38	15	487	3.99	12	5	ND	1	55	1	2	2	38	1.06	.073	14	27	1.19	460	.04	6	1.59	.03	.07	1	20
[illegible]	1	11	22	294	.2	29	9	349	2.74	8	5	ND	2	29	1	2	2	44	.45	.052	15	26	.44	379	.03	7	1.26	.01	.09	1	10
[illegible]	3	61	33	150	1.1	48	12	581	3.18	21	5	ND	1	110	1	3	2	33	3.48	.091	16	20	1.16	590	.02	4	1.03	.02	.06	1	230
[illegible]	1	22	12	83	.5	31	10	413	2.20	14	5	ND	2	31	1	3	2	34	.50	.060	11	26	.41	422	.03	2	.99	.02	.06	1	30
[illegible]	1	23	9	62	.1	47	11	273	2.41	12	5	ND	3	26	1	2	2	34	.39	.070	12	34	.56	361	.03	3	.94	.01	.05	1	20
[illegible]	1	10	9	63	.1	27	8	115	2.17	15	5	ND	2	13	1	2	2	34	.21	.058	13	21	.32	328	.02	12	.99	.01	.05	1	20
[illegible]	1	11	14	61	.3	35	9	127	2.38	16	5	ND	3	15	1	2	2	38	.20	.050	13	26	.41	359	.03	3	1.16	.01	.05	1	5
[illegible]	1	15	13	64	.1	33	7	147	2.33	15	5	ND	2	20	1	2	2	34	.37	.024	15	25	.48	428	.02	13	1.09	.01	.05	1	20
[illegible]	2	14	15	115	.1	31	10	187	2.88	14	5	ND	3	19	1	2	2	53	.25	.023	18	31	.53	666	.03	2	1.83	.01	.05	1	10
[illegible]	2	17	14	93	.3	41	11	246	2.86	15	5	ND	3	22	1	2	2	44	.30	.036	16	31	.58	533	.03	2	1.55	.01	.06	1	30
[illegible]	1	17	15	77	.1	40	8	214	2.60	18	5	ND	4	25	1	2	2	39	.35	.056	18	29	.50	436	.03	7	1.19	.01	.08	1	20
[illegible]	1	16	15	64	.2	36	7	178	2.39	13	5	ND	1	32	1	2	2	34	.53	.042	18	25	.57	446	.02	3	1.15	.01	.05	1	30
[illegible]	2	15	12	71	.1	31	9	179	2.76	11	5	ND	3	20	1	2	2	46	.27	.024	17	33	.62	529	.03	7	1.55	.01	.07	1	10
[illegible]	1	15	14	84	.1	30	10	194	2.83	17	5	ND	3	23	1	2	2	44	.32	.052	15	30	.49	454	.03	15	1.51	.01	.07	1	10
[illegible]	1	16	15	74	.1	36	10	230	2.70	17	5	ND	3	20	1	2	2	40	.27	.053	15	30	.46	418	.03	2	1.34	.01	.08	1	10
[illegible]	1	13	13	92	.1	34	9	169	2.47	15	5	ND	4	15	1	3	2	39	.21	.036	14	30	.42	336	.04	7	1.19	.01	.06	1	20
[illegible]	1	15	15	95	.1	40	10	229	2.70	9	5	ND	3	30	1	2	2	43	.48	.069	17	32	.58	502	.08	9	1.51	.02	.10	1	20
[illegible]	18	63	38	132	7.2	74	31	1022	4.12	42	18	6	36	52	18	16	18	60	.53	.092	38	56	.91	181	.07	34	2.07	.06	.14	12	1300

[illegible]	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
9700E-10250E	1	15	16	76	.1	25	7	170	2.44	11	5	ND	4	16	1	2	3	37	.26	.023	13	26	.43	405	.03	2	1.21	.01	.05	1	20
9700E-10250E	1	28	18	91	.8	46	9	335	2.90	19	5	ND	3	27	1	3	2	36	.46	.035	22	29	.60	554	.03	2	1.32	.01	.07	1	30
9700E-10300E	2	18	16	76	.2	31	9	173	2.72	14	6	ND	5	23	1	2	2	39	.34	.025	15	28	.50	415	.03	2	1.37	.01	.07	2	10
9700E-10350E	1	22	15	72	.3	41	8	194	2.58	17	5	ND	4	23	1	2	2	37	.35	.039	18	28	.56	380	.03	6	1.18	.01	.06	2	30
9700E-10400E	2	15	27	88	.2	28	9	159	3.05	21	5	ND	5	17	1	2	2	36	.22	.041	19	26	.47	284	.03	6	1.15	.01	.07	1	20
9700E-10450E	2	16	22	84	.3	31	10	460	2.95	23	5	ND	3	27	1	3	2	36	.39	.038	16	25	.59	353	.03	6	1.10	.01	.06	1	10
9700E-10500E	3	26	34	166	.1	34	12	434	3.86	24	5	ND	5	21	1	3	2	46	.35	.050	20	27	.48	515	.02	2	1.39	.01	.06	1	50
9800E-9500E	1	26	16	73	.1	32	10	172	2.83	19	5	ND	4	19	1	2	2	40	.31	.055	14	35	.47	386	.03	3	1.13	.01	.08	1	20
9800E-9550E	2	25	20	77	.3	32	11	291	2.70	18	5	ND	5	24	1	2	2	40	.37	.052	15	30	.46	374	.02	2	1.23	.01	.10	1	40
9800E-9600E	2	33	21	92	.2	39	12	391	3.09	19	5	ND	5	24	1	2	2	48	.30	.027	19	35	.61	529	.03	3	1.50	.01	.10	1	50
9800E-9650E	1	36	16	112	.8	41	10	544	2.38	12	5	ND	2	75	1	2	2	35	1.35	.048	15	25	.68	491	.03	8	1.17	.02	.09	1	40
9800E-9700E	1	34	17	229	.8	31	11	319	2.37	9	5	ND	2	47	1	2	2	34	.78	.061	15	28	.68	400	.04	6	1.23	.02	.07	1	50
9800E-9750E	1	23	14	70	.2	41	9	216	2.63	15	5	ND	6	22	1	2	2	35	.35	.021	21	27	.57	407	.03	5	1.04	.01	.05	1	40
9800E-9800E	1	19	14	68	.1	32	9	189	2.65	14	5	ND	4	21	1	2	2	39	.30	.049	13	27	.47	410	.03	6	1.35	.01	.06	1	30
9800E-9850E	2	17	19	97	.1	30	10	277	2.91	14	5	ND	5	21	1	2	2	39	.30	.053	17	28	.47	393	.03	2	1.31	.01	.08	1	20
9800E-9900E	2	18	13	78	.1	33	10	231	2.76	16	5	ND	6	21	1	3	2	39	.31	.044	19	31	.55	408	.03	2	1.29	.01	.06	1	30
9800E-9950E	2	18	17	81	.1	33	10	191	3.17	18	5	ND	4	18	1	2	2	47	.26	.046	16	32	.52	425	.03	2	1.48	.01	.07	1	20
9800E-10000E	2	17	47	96	.1	29	9	187	2.92	21	5	ND	5	18	1	3	2	37	.27	.047	18	29	.45	316	.04	2	1.12	.01	.06	1	20
9800E-10050E	1	15	14	63	.1	33	9	241	2.65	9	5	ND	6	19	1	2	2	35	.29	.050	17	28	.50	422	.06	8	1.18	.01	.10	1	10
9800E-10100E	1	17	14	62	.1	35	8	198	2.41	12	5	ND	5	19	1	2	2	33	.29	.033	16	28	.45	445	.03	12	1.11	.01	.05	1	40
9800E-10150E	1	15	14	61	.1	36	7	154	2.43	15	5	ND	4	24	1	2	2	34	.33	.028	16	31	.50	510	.03	4	1.26	.01	.04	1	20
9800E-10200E	1	10	13	54	.1	29	6	124	2.07	7	5	ND	3	19	1	2	2	32	.28	.027	12	23	.50	418	.03	3	1.14	.01	.05	1	30
9800E-10250E	1	11	11	62	.1	24	7	147	2.12	14	5	ND	3	17	1	3	2	33	.24	.034	13	23	.45	339	.03	2	1.14	.01	.05	1	20
9800E-10300E	1	12	11	60	.1	30	8	167	2.26	17	5	ND	2	22	1	2	2	31	.33	.046	14	24	.44	301	.02	7	.98	.01	.05	1	30
9800E-10350E	1	18	12	69	.1	34	8	196	2.49	15	5	ND	3	24	1	2	2	33	.38	.036	15	25	.57	407	.03	2	1.09	.01	.06	1	40
9800E-10400E	1	14	14	70	.2	27	8	168	2.45	13	5	ND	3	25	1	2	2	37	.35	.029	14	26	.60	283	.04	5	1.17	.02	.07	1	30
9800E-10450E	1	23	20	95	.2	34	11	571	2.98	15	5	ND	2	48	1	2	2	44	.73	.039	15	27	.63	464	.03	6	1.43	.01	.08	1	40
9800E-10500E	3	18	20	128	.1	31	11	249	3.41	20	5	ND	5	14	1	2	2	40	.19	.037	19	27	.53	358	.03	6	1.37	.01	.06	1	10
STD C	17	63	41	132	6.6	72	30	1014	4.10	41	22	7	36	51	18	14	20	59	.52	.089	38	56	.90	177	.07	32	2.00	.06	.13	12	1400

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION:LUKESHANE

CODE : 8906-016

Project No. :320 Sheet:1 of 3 Date rec'd:JUN.01
Material :135 SOILS Geol.:D.B. Date compl:JUN.16
Remarks :

Values in PPM, except where noted.

T. No.	SAMPLE No.	PPB Au
52	7200N-7800E	5
53	7850	5
54	7900	235
55	8050	5
56	8100	5
57	8150	5
58	8200	5
59	8250	5
60	8300	5
61	8350	5
62	8400	5
63	8450	5
64	8500	5
65	8550	5
66	8600	5
67	8700	5
68	8650	5
69	8750	5
70	8800	5
71	8850	5
72	8900	5
73	8950	5
74	9000	5
75	9050	5
76	9100	5
77	9150	5
78	9200	5
79	9250	5
80	9300	5
81	9350	5
82	9400	5
83	9450	5
84	7200N-9500E	5
85	7700N-7950E	5
86	8000	5
87	8050	5
88	8100	5
89	8150	5
90	8200	5
91	8250	5
92	8300	5
93	8400	5
94	8450	5
95	8500	5
96	8550	5
97	8600	5
98	8650	5
99	7700N-8700E	5

T. No.	SAMPLE No.	PPB Au
55	7700N-8750E	5
56	8800	5
57	8900	5
58	8950	5
59	9000	5
60	9050	5
61	9400	5
62	9450	5
63	7700N-9500E	5
64	9500N-9650E	5
65	9750	5
66	9700	5
67	9500N-9800E	5
68	9800N-9800E	5
69	9500N-9850E	5
70	9900	5
71	9950	5
72	10000	5
73	10050	5
74	10100	5
75	10150	5
76	10200	5
77	10250	5
78	10300	5
79	10350	5
30	9500N-10400E	5
31	9600N-9500E	5
32	9550	5
33	9600	5
34	9650	5
35	9700	5
36	9750	5
37	9800	5
38	9850	5
39	9900	5
40	10000	5
41	10050	5
42	10100	5
43	10150	5
44	10200	5
45	10250	5
46	10300	5
47	10350	5
48	10400	5
49	10450	5
50	9600N-10500E	5
52	9700N-9500E	5
53	9550	5
54	9600	5
55	9650	5
56	9700	5
57	9750	5
58	9800	5
59	9850	5
60	9900	5
61	9950	5
62	9700N-10000E	5

T.T. No.	SAMPLE No.	PPB Au
13	9700N-10050E	5
14	10100	5
15	10150	5
16	10200	5
17	10250	5
18	10300	5
19	10350	5
20	10400	5
21	10450	5
22	9700N-10500E	5
23	9800N-10000E	5
24	10050	5
25	10100	5
26	10150	5
27	10200	5
28	10250	5
29	10300	5
30	10350	5
31	10400	5
32	10450	5
33	10500	5
34	9500	5
35	9550	5
36	9600	5
37	9650	5
38	9700	5
39	9750	5
40	9850	5
41	9900	5
42	9800N-9950E	5

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 8 1999 DATE REPORT MAILED: June 13/99 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG: CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 9906-033 320 File # 99-1402

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
[illegible]	2	24	2	136	.2	5	1	31	.10	2	5	NO	1	9	1	1	1	2	.01	.011	2	17	.01	278	.01	2	.11	.01	.05	1	6
[illegible]	6	51	11	10	.9	11	1	13	.79	19	5	NO	1	6	1	1	1	7	.07	.003	2	9	.01	15	.01	2	.01	.01	.05	1	6
[illegible]	1	21	2	32	.1	105	22	266	2.77	2	5	NO	1	15	1	1	1	10	.53	.027	2	126	6.57	22	.02	9	.13	.01	.05	1	15
[illegible]	13	15	3	13	1.1	11	4	154	1.33	5	5	NO	1	15	1	1	1	45	.42	.025	9	13	.01	19	.01	3	.05	.01	.07	1	96
[illegible]	2	9	11	42	.1	10	4	253	.87	7	5	NO	5	49	1	2	2	1	.80	.011	10	13	.02	119	.01	2	.11	.01	.06	1	6
[illegible]	2	7	10	34	.1	10	3	207	1.14	4	5	NO	11	54	1	2	2	2	.40	.027	15	8	.12	54	.01	8	.17	.01	.11	2	2
[illegible]	1	29	6	107	.1	19	27	972	5.76	5	5	NO	1	33	1	2	2	63	2.00	.193	29	59	2.26	164	.24	6	1.10	.13	.35	1	1
[illegible]	2	74	2	29	.1	17	11	124	2.38	2	5	NO	4	27	1	2	2	116	.75	.134	11	151	.69	97	.14	5	.51	.04	.29	2	1
[illegible]	4	31	12	127	.2	15	2	5134	1.75	7	5	NO	1	74	1	2	2	56	5.85	.045	4	9	2.68	252	.01	3	.39	.01	.02	1	3
[illegible]	3	68	17	136	.2	55	19	532	2.64	7	5	NO	4	15	1	2	4	109	.19	.026	12	78	.37	195	.09	10	1.02	.01	.18	1	2
[illegible]	5	17	6	29	.1	24	5	1765	2.04	2	5	NO	1	10	1	2	2	9	.39	.062	1	12	.21	77	.01	2	.24	.01	.04	2	1
[illegible]	2	32	3	62	.1	13	6	1020	3.55	2	5	NO	1	42	1	2	2	13	3.01	.016	2	13	1.75	96	.01	4	.28	.01	.01	1	1
[illegible]	3	7	11	43	.1	9	4	348	1.61	5	5	NO	13	29	1	2	2	17	.50	.024	24	11	.39	123	.13	5	.69	.18	.22	2	1
[illegible]	1	69	6	79	.1	39	35	901	5.61	5	5	NO	1	79	1	2	3	50	2.35	.122	23	18	2.56	51	.24	2	1.69	.23	.11	1	1
[illegible]	18	62	39	133	2.1	72	31	1002	3.84	41	18	5	35	49	18	18	21	58	.17	.259	32	51	.88	174	.07	32	1.89	.15	.13	12	190

Lukashane (015)

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 8 1989 DATE REPORT MAILED: June 13/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-033 320 File # 89-1402

SAMPLE	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
L6 [illegible]	2	24	7	136	.2	6	1	14	.40	2	5	ND	1	9	1	2	2	2	.01	.011	2	17	.01	378	.01	2	.12	.01	.05	1	6
L6 15100E 15075N	6	51	11	10	.9	11	1	43	.79	19	5	ND	2	6	1	2	2	7	.07	.002	3	9	.01	15	.01	2	.01	.01	.05	1	15
L6 15400E 14975N	1	21	2	32	.1	195	32	396	2.77	2	5	ND	1	15	1	2	2	10	.52	.027	2	125	1.57	32	.02	9	.13	.01	.06	1	1
L6 15600E 15085N	13	15	3	13	1.1	14	4	164	1.33	5	5	ND	2	15	1	2	2	45	.02	.022	9	13	.01	40	.01	3	.05	.01	.07	1	96
L6 15[illegible]E 15[illegible]N	2	9	11	42	.1	10	4	253	.87	7	5	ND	5	49	1	2	2	1	.80	.011	10	13	.02	119	.01	2	.11	.01	.06	1	6
L6 15450E 15175N	2	7	10	34	.1	10	3	207	1.14	4	5	ND	11	64	1	2	2	2	.40	.027	16	8	.12	54	.01	9	.17	.01	.11	2	2
L6 [illegible]E [illegible]N	1	29	6	107	.1	49	27	872	5.76	5	5	ND	1	77	1	2	2	63	2.00	.152	29	59	3.30	164	.24	6	1.10	.13	.25	1	1
L6 [illegible]E [illegible]N	2	74	2	29	.1	47	11	124	2.38	3	5	ND	4	27	1	2	2	116	.75	.194	14	151	.69	97	.14	5	.52	.04	.30	2	1
L6 [illegible]E [illegible]N	4	31	12	127	.2	15	2	5134	1.75	7	5	ND	1	74	1	2	2	56	5.86	.045	4	9	2.69	252	.01	3	.09	.01	.02	1	2
L6 [illegible]E [illegible]N	3	68	17	136	.2	55	19	532	2.64	7	5	ND	4	16	1	2	4	109	.19	.026	12	79	.37	195	.09	10	1.83	.01	.48	1	3
L6 [illegible]E [illegible]N	5	17	6	29	.1	24	5	1765	2.04	2	5	ND	1	10	1	2	2	9	.29	.062	4	13	.21	77	.01	2	.24	.01	.04	2	1
L6 [illegible]E [illegible]N	2	32	3	63	.1	13	4	4030	2.55	2	5	ND	1	42	1	2	2	13	3.81	.010	2	12	1.75	96	.01	4	.03	.01	.01	1	1
L6 [illegible]E [illegible]N	3	7	14	40	.1	9	4	348	1.64	6	5	ND	15	29	1	2	3	17	.50	.024	34	11	.29	123	.13	6	.95	.08	.22	2	1
L6 [illegible]E [illegible]N	1	40	6	78	.1	39	25	804	5.41	5	5	ND	1	76	1	2	2	60	2.25	.133	22	18	2.56	51	.24	2	1.69	.23	.11	1	1
L6 [illegible]	38	63	38	132	7.1	72	31	1003	3.84	41	18	6	36	50	18	15	24	58	.47	.088	37	54	.89	174	.07	31	1.89	.06	.13	12	490

Enhancement (BB)

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL PULP HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUN 7 1989 DATE REPORT MAILED: June 12/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG: CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-01 320 File # 89-1378 Page 1

SAMPLE	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
13900E 14750N	2	20	12	76	.2	31	16	283	3.37	9	7	ND	4	20	1	3	3	51	.15	.018	11	39	.75	199	.11	2	1.36	.01	.24	1	20
13900E 14800N	2	14	11	81	.2	18	9	325	2.07	5	5	ND	2	19	1	3	3	35	.24	.020	13	27	.40	139	.04	6	.74	.01	.11	1	10
13900E 14850N	2	27	20	297	.5	29	19	1549	2.32	4	5	ND	1	27	1	2	2	42	.39	.064	15	27	.20	455	.02	11	.86	.01	.09	1	20
13900E 14900N	2	18	10	79	.1	32	11	315	2.06	9	5	ND	3	22	1	2	2	38	.29	.050	18	39	.52	262	.04	2	.76	.01	.06	1	10
13900E 14950N	2	39	12	72	.2	47	17	425	3.19	11	5	ND	4	20	1	2	3	52	.27	.027	16	51	.51	227	.04	3	.93	.01	.10	1	20
13900E 15000N	2	27	8	82	.1	38	18	431	2.89	15	5	ND	3	22	1	4	2	46	.31	.043	15	45	.45	236	.04	4	.88	.01	.10	1	20
13900E 15050N	1	22	16	84	.1	31	12	495	2.40	12	5	ND	2	24	1	2	2	50	.39	.031	17	36	.53	353	.05	3	.82	.01	.09	1	10
13900E 15100N	1	22	11	91	.1	29	13	294	2.34	12	5	ND	1	24	1	2	2	45	.36	.038	12	38	.49	256	.04	2	.78	.01	.07	1	30
13900E 15150N	2	28	13	94	.1	43	14	269	2.78	15	5	ND	2	29	1	2	5	46	.39	.056	17	39	.56	239	.03	4	.99	.01	.12	1	20
13900E 15200N	2	25	9	95	.1	154	34	429	4.41	8	5	ND	2	21	1	2	2	38	.31	.052	14	154	1.79	294	.05	7	1.00	.01	.13	1	10
13900E 15250N	2	21	10	81	.1	42	16	262	2.68	7	5	ND	3	19	1	2	5	43	.26	.029	15	76	.66	214	.06	2	.88	.01	.11	1	20
13900E 15300N	1	22	13	246	.2	35	19	566	2.74	5	5	ND	3	22	1	2	2	48	.22	.064	17	42	.47	276	.05	2	1.09	.01	.19	1	10
13900E 15350N	2	57	25	105	.1	76	29	586	4.04	19	5	ND	4	32	1	2	2	69	.47	.049	18	82	.85	385	.06	2	1.39	.01	.21	1	30
13900E 15400N	2	40	21	100	.4	36	17	609	2.75	16	5	ND	1	39	1	2	2	48	.61	.041	19	32	.55	463	.04	9	.94	.01	.08	1	20
13100E 14900N	1	20	13	149	.1	44	20	467	2.69	8	5	ND	3	19	1	2	2	57	.25	.044	11	76	.64	471	.05	4	1.39	.01	.04	1	20
13100E 14950N	2	35	9	64	.1	128	30	356	3.42	10	5	ND	2	19	1	3	2	43	.19	.044	12	153	1.95	180	.05	9	.84	.01	.06	1	10
13100E 15000N	2	36	15	151	.1	53	18	386	3.70	17	5	ND	3	22	1	2	2	52	.20	.074	16	62	.62	294	.05	2	1.02	.01	.16	1	10
13100E 15050N	2	34	13	100	.1	32	14	417	2.29	9	5	ND	1	31	1	2	2	48	.45	.047	14	32	.54	279	.02	2	.85	.01	.11	1	20
13100E 15100N	2	56	17	171	.4	69	20	565	3.12	18	5	ND	2	57	2	2	2	54	.94	.079	20	50	.88	435	.07	2	1.41	.01	.06	1	50
13100E 15150N	2	23	31	77	.2	53	13	228	3.37	21	5	ND	4	29	1	2	2	52	.44	.032	13	55	.62	507	.05	12	1.29	.01	.06	1	30
13100E 15200N	2	18	15	52	.2	22	9	179	2.10	8	5	ND	3	24	1	2	2	45	.22	.018	12	31	.53	200	.03	2	.82	.01	.06	1	20
13100E 15250N	1	16	13	357	.1	28	13	333	2.67	12	5	ND	4	19	1	2	2	47	.21	.041	18	32	.41	336	.05	4	.94	.01	.09	1	10
13100E 15300N	3	29	13	78	.1	38	19	531	3.57	16	5	ND	4	20	1	2	2	53	.21	.025	21	43	.52	222	.07	2	1.19	.01	.19	1	20
13100E 15350N	1	32	11	95	.2	49	16	470	3.14	11	5	ND	4	29	1	2	2	54	.58	.028	16	50	.88	291	.11	2	1.54	.01	.23	1	50
13100E 15400N	1	18	12	58	.1	39	11	180	2.92	15	5	ND	2	45	1	2	2	67	.57	.020	13	63	.60	591	.07	2	1.68	.02	.05	1	30
13100E 15450N	2	16	17	94	.1	33	9	234	2.35	10	5	ND	1	26	1	2	2	43	.31	.052	15	20	.46	481	.04	5	1.10	.01	.06	1	10
13100E 15500N	2	26	20	85	.1	34	17	414	2.47	11	5	ND	3	28	1	2	2	58	.36	.020	15	39	.60	615	.04	6	1.68	.02	.03	1	20
13100E 15550N	1	18	15	100	.1	153	40	577	4.54	11	5	ND	2	25	1	2	2	42	.39	.077	12	133	2.53	340	.06	2	.99	.01	.07	1	10
13100E 15600N	2	28	14	70	.2	47	19	517	3.22	11	5	ND	2	24	1	2	2	51	.30	.027	15	49	.73	365	.08	2	1.24	.02	.14	1	20
13100E 15650N	1	31	16	107	.3	49	14	673	2.57	23	5	ND	1	54	1	2	2	49	1.20	.035	17	39	.70	622	.06	2	1.38	.02	.06	1	50
13100E 15700N	2	30	19	142	.4	64	18	1006	2.84	15	5	ND	2	45	1	2	2	46	.82	.055	17	38	.76	529	.05	12	1.26	.02	.09	1	90
13100E 15750N	2	16	16	126	.1	35	15	322	3.51	16	5	ND	2	34	1	2	2	56	.34	.030	15	39	.65	609	.06	6	1.72	.02	.09	1	20
13100E 15800N	1	13	9	56	.1	166	39	632	4.01	8	5	ND	1	19	1	2	2	44	.24	.044	8	158	3.09	231	.06	2	.94	.01	.03	1	20
13100E 15850N	1	39	17	80	.1	121	18	451	2.77	17	5	ND	1	27	1	2	2	38	.47	.091	20	57	1.12	521	.05	11	.73	.02	.05	1	80
13100E 15900N	3	52	18	76	.2	78	25	497	5.17	22	5	ND	3	37	1	2	2	72	.28	.015	25	98	1.21	262	.06	2	1.81	.03	.05	1	40

NORANDA EXPLORATION CO. LTD. PROJECT 8906-01 320 FILE # 89-1378

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
15300E 15150N	2	47	17	101	.1	112	24	422	4.58	23	5	ND	1	21	1	2	1	42	.27	.041	10	117	1.46	280	.04	7	1.07	.01	.08	1	30
15600E 14850N	2	26	14	74	.2	46	11	304	2.72	15	5	ND	3	70	1	2	2	42	1.01	.025	21	35	.75	341	.04	2	1.08	.02	.05	1	50
15600E 14900N	2	20	14	69	.1	32	9	165	2.71	12	5	ND	4	15	1	2	2	44	.19	.023	16	36	.50	235	.04	5	1.12	.01	.05	1	20
15600E 14950N	2	17	25	134	.2	33	14	357	2.76	19	5	ND	3	24	1	2	3	47	.27	.051	17	35	.45	500	.04	5	1.12	.01	.09	1	20
15600E 15000N	2	40	21	109	.1	42	18	969	2.76	11	5	ND	3	35	1	2	2	56	.32	.019	18	45	.74	749	.03	5	1.51	.02	.06	1	30
15600E 15050N	2	14	13	124	.1	38	13	184	3.12	8	5	ND	1	14	1	2	2	44	.16	.041	14	62	.56	206	.04	2	.91	.01	.09	1	20
15600E 15150N	1	38	14	118	.1	94	37	616	3.87	12	5	ND	2	29	1	2	2	48	.45	.028	12	100	1.10	450	.03	2	1.13	.01	.05	1	40
15700E 14900N	2	19	15	65	.1	42	14	200	2.77	17	5	ND	5	22	1	2	2	51	.30	.020	15	48	.50	165	.04	2	1.45	.01	.07	1	20
15700E 14950N	2	15	15	150	.1	23	11	299	2.62	9	5	ND	1	33	1	2	1	50	.29	.050	17	33	.39	175	.05	4	1.33	.01	.11	1	10
15700E 15050N	2	36	14	86	.5	71	15	222	2.81	14	5	ND	2	44	1	2	2	40	.57	.030	14	75	1.20	319	.04	4	.85	.01	.05	1	70
15700E 15100N	2	38	17	130	.1	112	29	398	3.85	10	5	ND	2	16	1	2	1	41	.20	.023	12	78	0.82	312	.04	2	.77	.01	.05	1	10
15800E 14800N	3	14	16	90	.1	23	10	161	2.62	13	5	ND	3	15	1	2	1	57	.17	.021	20	32	.45	184	.02	5	1.18	.01	.05	1	10
15800E 14850N	2	24	13	117	.2	37	11	245	2.38	12	5	ND	4	21	1	2	1	41	.10	.051	22	28	.52	438	.04	2	.92	.01	.07	1	50
15800E 14950N	2	15	20	163	.1	30	14	281	2.97	12	5	ND	4	23	1	2	1	56	.29	.033	17	39	.61	151	.06	7	1.53	.01	.13	1	20
15800E 15000N	2	16	20	120	.1	25	10	270	2.58	19	5	ND	1	21	1	2	1	50	.22	.018	19	35	.48	572	.03	2	1.22	.01	.07	1	10
15800E 15100N	2	23	13	129	.1	30	16	469	2.80	14	5	ND	1	22	1	2	1	46	.26	.045	15	38	.40	378	.03	5	.96	.01	.08	1	10
15900E 15150N	2	26	18	141	.2	54	20	250	3.64	9	5	ND	2	18	1	2	1	56	.32	.029	13	92	.80	269	.05	4	.96	.01	.09	1	20
15900E 14850N	2	29	11	102	.2	37	11	169	2.43	12	5	ND	1	44	1	2	2	51	1.01	.027	18	34	.50	568	.03	3	1.31	.01	.05	1	50
15900E 15000N	1	70	11	54	.1	122	17	260	2.94	7	5	ND	2	26	1	2	5	35	.44	.056	14	77	1.80	296	.04	4	.70	.01	.05	1	100
15900E 15050N	2	22	22	93	.1	34	14	439	3.22	12	5	ND	5	24	1	2	2	57	.33	.043	15	44	.30	392	.10	2	1.36	.01	.22	1	20
15900E 15100N	2	33	16	126	.1	56	16	578	3.09	9	5	ND	3	30	1	2	1	51	.48	.043	15	50	.67	542	.04	2	1.34	.01	.07	1	30
15900E 15150N	3	19	15	90	.1	29	10	256	2.44	10	5	ND	1	17	1	2	1	41	.20	.032	13	35	.33	351	.02	2	.86	.01	.07	1	30
15900E 15200N	2	20	21	117	.2	31	13	430	2.94	15	5	ND	3	22	1	2	1	48	.24	.049	19	41	.46	396	.05	2	.84	.01	.07	1	20
16000E 14850N	1	18	15	90	.2	20	9	299	2.00	12	5	ND	1	37	1	2	1	39	.63	.041	14	22	.49	452	.06	7	.88	.02	.04	1	20
16000E 14900N	1	34	11	79	.2	30	7	147	2.06	11	5	ND	2	50	1	2	2	40	1.12	.027	14	29	.45	401	.02	2	.81	.01	.05	1	40
16000E 15000N	2	24	15	96	.1	56	18	639	3.17	17	5	ND	3	34	1	2	2	52	.55	.028	29	53	.73	399	.07	3	1.36	.01	.12	1	50
16000E 15100N	4	28	14	101	.2	35	17	387	3.41	13	5	ND	5	24	1	2	3	52	.27	.036	19	53	.51	506	.04	9	1.27	.01	.11	1	20
16000E 15150N	3	27	16	91	.3	46	17	453	3.50	17	5	ND	4	24	1	2	2	54	.27	.027	19	58	.62	440	.03	2	1.01	.01	.06	1	10
16100E 14800N	1	29	16	206	.3	29	11	346	2.33	16	5	ND	2	49	1	2	1	46	.72	.039	21	26	.57	549	.05	2	1.17	.01	.06	1	40
16100E 14850N	1	18	13	81	.1	25	9	206	2.00	12	5	ND	2	36	1	2	2	39	.53	.046	16	27	.62	602	.06	5	.94	.02	.04	1	40
16100E 14900N	2	19	18	149	.1	28	12	421	2.52	9	5	ND	1	46	1	2	2	56	1.23	.025	19	31	.81	421	.04	3	1.46	.01	.03	1	30
16100E 15150N	4	131	22	92	.2	48	20	303	5.25	30	5	ND	5	38	1	3	4	63	.12	.032	16	39	.33	315	.03	2	.89	.01	.10	1	30
16100E 15200N	3	28	16	102	.1	34	11	380	2.61	18	5	ND	1	29	1	2	2	39	.39	.061	17	29	.44	340	.03	6	.89	.01	.05	1	40
16200E 14800N	1	17	10	75	.1	35	7	201	2.08	15	5	ND	1	35	1	2	2	39	.50	.064	17	29	.51	655	.03	2	.82	.01	.05	1	10
16200E 14850N	1	13	9	76	.1	28	8	246	1.85	9	5	ND	1	32	1	2	2	36	.41	.040	14	21	.44	535	.04	6	.98	.02	.04	1	20
16200E 14900N	1	69	15	161	.1	42	9	225	2.17	10	5	ND	1	64	1	2	1	49	.99	.041	19	29	.53	551	.04	6	1.19	.01	.05	1	60
STD C/AU-S	18	62	40	132	6.6	73	31	1024	3.87	42	18	7	38	52	17	17	24	60	.48	.090	39	56	.91	182	.07	33	1.75	.06	.14	12	1400

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
15200E 15300N	2	25	19	111	.1	31	9	235	2.54	8	5	ND	1	41	1	2	2	56	.69	.030	19	33	.48	516	.02	5	1.33	.01	.06	1	10
15200E 15250N	2	23	18	117	.1	28	10	163	2.65	10	5	ND	1	18	1	2	2	55	.35	.024	23	36	.15	182	.01	2	.93	.01	.07	1	10
15200E 15200N	2	19	25	130	.1	24	10	411	2.46	6	5	ND	1	30	1	2	2	49	.52	.040	13	31	.52	355	.04	5	.97	.01	.07	1	20
15300E 14800N	2	16	15	131	.1	26	9	169	2.53	8	5	ND	2	24	1	2	2	50	.34	.042	15	24	.45	592	.06	2	1.41	.01	.06	1	10
15300E 14850N	1	61	22	246	.5	41	15	1584	2.76	2	5	ND	1	97	3	2	11	52	1.67	.045	19	23	.52	761	.08	5	1.46	.02	.06	1	30
15300E 14900N	2	11	17	76	.2	15	10	201	2.14	5	5	ND	1	22	1	2	2	45	.27	.025	14	20	.32	415	.04	4	.99	.01	.05	1	10
15300E 15000N	2	19	14	95	.1	30	8	196	2.31	5	5	ND	1	26	1	2	2	43	.39	.043	16	28	.44	492	.03	9	1.03	.01	.06	1	20
15300E 15100N	2	14	19	131	.1	25	9	160	2.39	9	5	ND	1	25	1	2	2	55	.20	.020	16	29	.24	591	.02	2	1.24	.01	.05	1	10
15300E 15150N	2	17	21	176	.1	25	13	443	2.86	6	5	ND	1	22	1	3	3	51	.27	.060	17	39	.45	712	.04	3	1.21	.01	.06	1	10
15300E 15200N	1	19	10	90	.1	17	5	124	1.31	5	5	ND	1	23	1	2	2	33	.23	.035	12	20	.23	338	.02	2	.77	.01	.02	1	20
15400E 14800N	2	17	20	127	.1	21	10	209	2.59	11	5	ND	2	30	1	2	2	48	.47	.075	13	23	.33	275	.02	2	1.06	.01	.05	1	10
15400E 14850N	2	27	25	129	.1	35	17	577	3.71	11	5	ND	1	50	1	2	2	51	.81	.071	17	27	1.11	519	.05	3	1.90	.02	.05	1	20
15400E 14900N	2	32	25	145	.2	39	15	918	2.87	8	5	ND	1	49	1	3	2	56	.81	.039	19	26	.44	543	.04	7	1.38	.01	.05	1	10
15400E 15000N	2	15	19	85	.1	25	11	276	2.55	8	5	ND	1	24	1	2	3	52	.29	.037	15	26	.43	502	.05	2	1.36	.01	.07	1	10
15400E 15050N	2	16	17	114	.1	24	9	244	2.42	9	5	ND	2	24	1	2	2	45	.28	.031	16	25	.39	666	.04	3	1.07	.01	.07	1	20
15400E 15100N	2	18	20	103	.1	24	10	246	2.68	9	5	ND	1	57	1	2	3	52	.39	.035	15	28	.53	655	.06	6	1.55	.02	.06	1	30
15400E 15150N	1	12	10	124	.1	27	10	151	2.29	6	5	ND	3	22	1	2	3	46	.25	.059	15	30	.27	429	.05	2	1.19	.01	.08	1	10
15400E 15200N	2	13	16	123	.3	28	12	324	3.26	10	5	ND	2	18	1	2	2	42	.22	.030	15	34	.41	359	.03	7	.94	.01	.07	1	10
15400E 15250N	2	15	15	80	.1	30	11	221	2.79	7	5	ND	3	22	1	2	2	51	.25	.025	13	22	.50	554	.06	2	1.51	.01	.07	1	20
15500E 14800N	3	22	22	163	.2	37	19	766	3.07	10	5	ND	2	39	1	2	2	59	.53	.047	20	30	.52	638	.02	8	1.72	.01	.07	1	40
15500E 14850N	1	28	21	79	.3	30	9	259	2.46	9	5	ND	2	74	1	2	2	49	1.20	.032	15	26	.50	520	.07	7	1.26	.02	.06	1	20
15500E 14900N	2	13	15	103	.1	17	7	126	2.35	5	5	ND	1	24	1	2	2	51	.27	.027	17	26	.40	320	.03	2	1.24	.01	.05	1	10
15500E 15000N	1	15	12	92	.2	29	7	197	2.17	7	5	ND	2	38	1	2	2	42	.50	.056	14	25	.51	545	.04	5	1.02	.01	.04	1	20
15500E 15050N	2	19	19	93	.3	25	8	200	2.80	11	6	ND	2	45	1	2	3	51	.59	.049	15	25	.46	455	.03	2	1.27	.01	.05	1	30
15500E 15100N	3	40	22	194	.4	23	18	1447	2.93	6	5	ND	2	39	2	2	2	52	.54	.062	21	29	.39	664	.04	2	1.40	.01	.07	1	10
15500E 15150N	2	20	27	126	.1	24	12	352	2.79	13	5	ND	2	24	1	2	2	51	.41	.026	22	28	.44	541	.03	2	1.24	.01	.06	1	20
15600E 14800N	1	72	14	105	.2	50	8	496	1.75	6	5	ND	1	78	1	3	2	34	1.74	.062	17	20	.47	819	.02	8	.83	.02	.07	1	30
15600E 14850N	2	23	22	105	.1	25	9	395	2.27	11	5	ND	2	35	1	2	2	41	.48	.071	19	25	.48	443	.03	13	.92	.01	.06	1	20
15600E 14900N	1	18	15	139	.1	44	18	361	3.62	7	5	ND	2	70	1	2	3	56	1.11	.059	21	55	2.06	512	.07	2	3.87	.05	.06	1	10
15600E 15000N	2	19	16	172	.3	29	11	592	2.39	11	5	ND	3	35	1	2	2	51	.46	.060	18	28	.47	683	.03	8	1.46	.01	.08	1	10
15700E 14800N	2	27	18	165	.4	26	12	299	2.72	14	5	ND	1	35	1	2	2	58	.55	.096	22	29	.56	565	.02	4	1.24	.01	.15	1	70
15700E 14850N	2	49	18	174	.4	47	12	429	2.77	9	5	ND	4	56	1	3	2	58	1.07	.096	24	30	.70	589	.02	7	1.24	.01	.19	2	120
15700E 14900N	3	29	15	130	.3	28	9	196	2.37	12	5	ND	3	37	1	2	2	52	.65	.048	19	29	.47	427	.01	4	.99	.01	.13	1	50
15700E 14950N	1	25	17	112	.3	36	11	360	2.53	11	5	ND	5	62	1	2	2	41	1.36	.102	21	24	.92	726	.07	11	.94	.03	.07	1	80
15700E 15000N	1	17	8	75	.1	27	9	278	2.28	8	6	ND	1	41	1	2	2	45	.62	.068	14	24	.56	1014	.05	3	1.04	.02	.04	1	30
15700E 15050N	1	23	8	90	.4	33	13	393	3.52	9	5	ND	3	195	1	2	2	53	1.13	.060	14	26	1.54	941	.24	6	2.50	.07	.12	1	50
STD C/AU-S	18	62	43	132	6.6	72	31	1013	3.87	37	22	7	34	51	19	15	21	59	.48	.089	38	56	.89	178	.07	34	1.74	.05	.13	12	1300

NORANDA EXPLORATION CO. LTD. PROJECT 8906-01 320 FILE # 89-1378

SAMPLE	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
16400E 15200N	1	18	14	94	.2	32	8	312	1.76	9	5	ND	3	84	1	2	1	31	2.55	.100	14	21	1.02	771	.06	3	.68	.04	.06	1	70
16600E 15300N	2	15	12	124	.1	20	7	126	2.33	11	5	ND	1	17	1	4	2	55	.25	.043	15	27	.38	266	.03	3	1.00	.01	.06	2	10
16900E 14850N	1	21	15	89	.1	19	7	262	1.66	2	5	ND	1	48	1	2	2	35	1.06	.033	10	20	.35	390	.02	2	.76	.01	.04	1	20
16900E 14900N	2	16	10	74	.1	25	8	119	2.30	14	5	ND	3	19	1	2	2	47	.13	.040	15	26	.36	462	.02	3	1.00	.01	.04	1	10
16900E 14950N	2	16	17	174	.1	17	10	285	2.48	12	5	ND	1	29	1	2	5	53	.24	.061	13	22	.14	439	.05	2	1.27	.01	.05	1	20
16900E 15000N	1	18	12	73	.1	27	8	228	2.17	5	5	ND	3	47	1	3	2	39	.70	.046	17	22	.60	587	.07	5	1.01	.03	.04	1	30
16900E 15050N	1	24	19	122	.2	34	9	519	2.26	13	5	ND	2	48	1	2	4	30	.75	.072	19	24	.61	634	.05	2	.94	.02	.05	1	10
16900E 15250N	1	16	15	200	.1	24	12	340	3.09	2	5	ND	2	20	1	2	2	55	.36	.053	15	31	.56	671	.11	2	1.62	.01	.06	1	10
16900E 15300N	2	12	17	107	.2	33	9	171	2.58	12	5	ND	4	25	1	2	2	59	.33	.039	13	29	.52	310	.06	2	1.70	.01	.05	1	10
16900E 15400N	2	18	18	88	.2	29	9	196	2.13	18	5	ND	3	25	1	2	2	57	.36	.075	10	29	.50	275	.06	5	1.10	.02	.05	1	20
16900E 15450N	2	15	15	149	.1	24	9	251	2.55	5	5	ND	1	22	1	2	2	46	.25	.073	12	21	.43	480	.04	5	.99	.02	.05	1	10
16900E 15500N	2	17	32	102	.2	23	9	230	2.31	8	5	ND	4	27	1	2	2	44	.40	.095	15	22	.38	409	.02	4	.98	.01	.05	1	10
16900E 15550N	2	15	15	93	.1	26	9	187	2.55	14	5	ND	2	19	1	2	2	49	.24	.127	15	25	.43	366	.03	2	1.24	.01	.07	1	5
16900E 15600N	1	10	17	104	.1	22	8	128	2.07	7	5	ND	2	14	1	2	2	42	.16	.043	13	21	.30	320	.02	9	.92	.01	.04	1	5
16900E 15750N	2	20	14	84	.1	36	10	170	2.81	17	5	ND	4	19	1	2	2	52	.24	.027	15	30	.48	562	.03	2	1.47	.01	.04	1	20
16900E 15850N	1	18	12	93	.1	26	11	166	2.38	13	5	ND	3	24	1	2	2	52	.21	.027	12	56	.90	341	.09	2	1.02	.01	.04	1	10
17000E 14850N	2	17	19	89	.2	28	8	111	2.19	16	5	ND	4	21	1	2	2	46	.33	.014	17	25	.51	372	.02	3	1.21	.01	.05	1	20
17000E 14900N	1	22	13	277	.5	19	11	941	2.17	9	5	ND	1	45	2	4	2	57	.74	.060	12	24	.36	533	.01	2	1.32	.01	.09	1	10
17000E 14950N	1	10	10	117	.2	23	8	172	2.14	10	5	ND	1	22	1	2	2	49	.26	.027	15	29	.44	477	.03	2	1.21	.01	.05	1	10
17000E 15000N	1	22	11	117	.1	35	13	298	3.36	15	5	ND	4	45	1	2	2	70	.66	.040	17	27	.76	547	.15	2	2.35	.02	.04	1	20
17000E 15050N	1	21	12	77	.1	24	10	263	2.75	16	5	ND	2	42	1	2	2	48	.57	.044	19	25	.73	582	.10	5	1.43	.04	.05	1	30
17000E 15200N	1	20	6	67	.9	23	10	315	1.82	5	12	ND	9	123	1	2	2	33	5.57	.062	11	19	.92	493	.13	2	1.04	.06	.13	2	50
17000E 15300N	2	26	16	187	.5	17	10	334	3.00	6	5	ND	1	26	2	2	2	54	.29	.063	12	35	.47	346	.10	5	1.86	.01	.05	1	20
17000E 15350N	2	18	15	127	.3	19	12	450	2.59	7	5	ND	2	28	1	2	2	56	.32	.034	13	27	.41	491	.08	5	1.76	.01	.05	1	10
17000E 15400N	2	16	16	114	.3	30	11	196	3.24	14	5	ND	5	29	1	3	2	57	.35	.019	17	34	.57	515	.09	2	1.83	.02	.05	1	20
17000E 15450N	1	14	13	107	.1	24	8	212	2.02	9	5	ND	1	22	1	2	2	31	.28	.061	12	23	.38	274	.05	2	.72	.01	.06	1	10
17000E 15500N	2	18	12	97	.4	32	9	248	2.43	22	5	ND	5	22	1	2	2	45	.43	.029	16	26	.45	557	.03	5	1.18	.01	.05	1	20
17000E 15550N	3	15	16	96	.1	33	10	229	3.44	16	5	ND	3	29	1	2	2	71	.40	.036	14	34	.56	499	.10	5	1.85	.01	.04	1	20
17000E 15600N	2	16	19	158	.1	28	10	204	3.10	21	5	ND	6	20	1	2	2	51	.23	.119	21	28	.49	410	.03	2	1.24	.01	.09	1	10
17000E 15650N	2	14	18	134	.1	36	12	591	2.95	10	5	ND	1	23	1	2	2	55	.34	.040	15	29	.43	698	.04	4	1.64	.01	.05	1	10
17000E 15700N	1	23	11	90	.1	25	8	371	1.63	9	5	ND	1	42	1	2	2	34	.75	.035	12	18	.36	529	.03	4	.86	.02	.04	1	20
17000E 15750N	1	17	20	143	.1	26	12	501	2.46	6	5	ND	1	21	1	2	2	50	.30	.056	14	25	.42	542	.08	4	1.46	.02	.05	1	10
17000E 15800N	2	13	18	204	.1	30	12	245	2.89	16	5	ND	1	16	1	2	2	49	.20	.066	16	26	.36	456	.03	2	1.24	.01	.06	1	5
17100E 14900N	1	15	14	94	.9	26	10	325	2.13	17	5	ND	1	29	1	2	2	41	.39	.053	15	22	.28	604	.02	3	.99	.01	.05	1	30
17100E 14950N	2	17	15	84	.1	34	10	211	2.57	10	5	ND	2	40	1	2	4	50	.10	.022	16	30	.56	425	.03	2	1.48	.01	.05	1	20
17100E 15000N	1	15	16	127	.1	26	10	252	2.58	12	5	ND	1	33	1	2	2	54	.15	.059	15	25	.56	536	.07	3	1.75	.01	.06	1	10
STD C	18	63	37	132	6.6	73	31	1014	3.90	42	18	7	37	51	18	15	22	59	.47	.089	38	56	.91	176	.07	34	1.72	.06	.12	11	1300

SAMPLE	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
17100E 15050N	1	21	14	79	.1	33	11	370	2.94	10	5	ND	2	43	1	1	2	56	.63	.025	16	25	.72	621	.17	2	1.79	.04	.05	1	30
17100E 15300N	1	31	26	123	.2	32	13	316	3.56	14	5	ND	1	98	2	1	11	73	1.50	.047	15	47	1.00	721	.23	2	2.37	.04	.08	1	20
17100E 15350N	1	43	18	159	.1	33	16	1021	4.21	11	5	ND	3	79	2	1	2	67	1.05	.069	14	51	1.05	1271	.33	2	2.83	.04	.15	1	20
17100E 15400N	2	16	28	102	.1	28	10	235	3.34	20	5	ND	4	27	1	2	2	62	.31	.026	18	37	.74	597	.09	2	1.90	.01	.07	1	10
17100E 15450N	2	16	16	89	.1	34	9	454	2.19	15	5	ND	2	39	1	2	2	40	.59	.040	14	28	.44	724	.04	2	1.17	.02	.05	1	30
17100E 15550N	2	10	16	100	.1	22	9	119	2.06	12	5	ND	2	24	1	3	3	44	.32	.028	14	23	.29	412	.04	2	1.00	.01	.04	1	20
17100E 15600N	2	12	19	146	.2	23	10	551	2.16	10	5	ND	2	20	1	2	2	46	.35	.041	15	24	.36	608	.03	2	1.18	.01	.05	1	10
17100E 15650N	2	17	19	78	.1	32	10	210	2.65	16	5	ND	4	21	1	4	2	50	.24	.026	16	28	.44	529	.04	5	1.28	.01	.05	1	20
17100E 15700N	2	12	22	147	.1	23	10	268	2.27	12	5	ND	1	19	1	2	3	46	.21	.028	16	27	.40	535	.04	4	1.10	.01	.06	1	20
17100E 15750N	3	13	24	202	.3	24	10	182	2.85	14	5	ND	1	21	1	2	3	59	.28	.047	17	26	.40	366	.03	3	1.32	.01	.07	1	10
17200E 14650N	2	14	11	75	.1	24	8	207	1.83	9	5	ND	2	14	1	3	1	41	.16	.025	15	22	.35	342	.02	2	.98	.01	.05	1	20
17200E 14900N	2	22	12	96	.2	31	11	228	2.20	13	5	ND	4	35	1	2	2	50	.38	.016	18	31	.63	499	.02	2	1.35	.01	.09	1	50
17200E 15000N	2	14	15	88	.1	20	7	117	1.94	8	5	ND	2	22	1	2	2	45	.24	.052	14	22	.35	382	.04	6	.97	.01	.06	1	10
17200E 15050N	1	37	22	164	.3	23	11	418	3.34	11	5	ND	2	58	1	3	2	64	.95	.060	14	23	.64	802	.19	2	2.11	.02	.06	1	20
17200E 15100N	2	16	12	103	.2	29	12	438	2.94	11	5	ND	5	27	1	2	3	52	.47	.055	15	35	.74	1149	.15	2	1.75	.02	.07	1	20
17200E 15150N	1	29	19	251	.1	35	23	945	5.88	6	5	ND	4	95	2	2	2	97	.80	.132	17	73	1.24	1045	.51	2	4.75	.04	.13	1	10
17200E 15550N	2	14	15	110	.3	20	9	179	1.92	11	5	ND	3	40	1	2	2	58	.61	.024	17	27	.54	550	.03	2	1.44	.01	.03	1	30
17200E 15600N	2	13	15	80	.3	23	8	231	2.14	11	5	ND	4	23	1	2	2	40	.31	.022	17	25	.42	426	.02	3	.98	.01	.05	1	20
17200E 15650N	2	13	18	78	.2	24	10	183	2.29	13	5	ND	4	19	1	3	2	52	.22	.040	19	27	.41	430	.02	4	1.22	.01	.05	1	10
17200E 15700N	2	15	22	154	.2	26	10	169	2.82	17	5	ND	2	34	1	2	2	59	.52	.080	16	29	.47	489	.05	2	1.44	.01	.07	1	20
17200E 15750N	2	17	25	121	.1	30	12	365	2.43	17	5	ND	3	27	1	2	2	49	.38	.046	16	28	.48	640	.05	7	1.38	.02	.09	1	30
17200E 15800N	2	11	23	163	.2	25	13	915	2.29	5	5	ND	2	37	1	2	2	51	.68	.029	15	27	.46	572	.03	5	1.48	.01	.05	1	20
17300E 14800N	2	18	22	136	.1	21	10	171	2.36	6	5	ND	1	40	1	2	4	62	.52	.052	16	26	.33	877	.02	3	1.17	.01	.04	1	20
17300E 14850N	1	20	13	96	.4	22	9	215	1.64	8	5	ND	2	55	1	3	2	31	1.06	.069	17	22	.48	432	.02	2	.81	.02	.06	1	50
17300E 14900N	2	19	12	98	.5	24	10	390	1.83	11	5	ND	2	41	1	3	2	37	.75	.069	16	23	.47	440	.02	2	.79	.01	.07	1	60
17300E 15000N	2	12	8	66	.1	19	7	123	1.91	12	5	ND	3	18	1	5	2	44	.18	.042	15	23	.31	520	.03	2	1.04	.01	.05	1	10
17300E 15050N	1	15	18	99	.3	20	9	199	2.25	13	5	ND	4	26	1	2	2	47	.31	.058	14	24	.48	772	.06	7	1.35	.01	.06	1	20
17300E 15100N	1	29	16	149	.2	29	13	366	3.58	12	5	ND	3	56	1	2	3	60	.78	.064	15	32	1.04	1472	.27	4	2.43	.03	.07	1	30
17300E 15150N	2	11	21	70	.1	30	9	125	2.32	15	5	ND	5	16	1	2	2	51	.19	.016	18	29	.43	358	.04	2	1.19	.01	.05	1	30
17300E 15550N	1	15	19	233	.2	34	9	284	2.23	3	5	ND	3	32	1	2	2	49	.43	.067	21	29	.62	473	.03	2	1.18	.01	.07	1	20
17300E 15600N	2	27	20	105	.3	49	13	227	3.01	14	5	ND	6	38	1	3	2	91	.59	.027	24	32	.58	866	.04	4	1.54	.01	.06	1	30
17300E 15650N	2	11	19	76	.1	32	9	232	2.06	11	5	ND	5	29	1	2	2	37	.36	.058	22	28	.53	440	.03	2	.95	.01	.06	1	30
17300E 15700N	2	10	18	92	.1	23	8	188	1.90	12	5	ND	3	22	1	2	2	52	.27	.037	19	27	.45	499	.03	2	1.40	.01	.04	1	10
17300E 15750N	2	7	13	100	.3	22	9	165	1.90	8	5	ND	5	17	1	4	2	48	.22	.027	17	24	.37	382	.03	2	1.04	.01	.05	1	20
17300E 15800N	2	12	19	116	.2	28	9	139	2.06	9	5	ND	5	15	1	2	2	49	.16	.029	17	26	.36	471	.03	2	1.12	.01	.04	1	10
17400E 14900N	2	22	17	73	.3	31	9	199	2.15	12	5	ND	2	41	1	3	2	42	.64	.041	20	26	.50	627	.02	3	1.15	.01	.05	1	40
STD C	18	63	42	133	7.1	72	30	961	3.67	37	17	6	37	51	17	17	16	59	.47	.087	39	56	.87	176	.07	25	1.73	.06	.13	11	1300

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
17400E 14850N	2	13	18	110	.2	23	8	167	2.30	12	5	ND	2	24	1	2	1	43	.28	.059	11	24	.41	403	.02	8	.96	.01	.08	1	20
17400E 14900N	2	14	15	424	.1	35	9	167	2.13	12	5	ND	1	32	1	2	2	41	.38	.041	13	27	.48	399	.03	2	1.07	.01	.04	1	20
17400E 14950N	1	32	15	79	.1	39	9	224	2.10	15	5	ND	1	44	1	2	2	38	.39	.061	15	24	.57	541	.03	8	.85	.01	.07	1	80
17400E 15000N	2	37	20	248	.2	33	11	925	2.05	5	5	ND	1	43	3	2	2	41	.79	.050	12	20	.30	524	.02	3	.75	.01	.05	1	30
17400E 15050N	1	13	12	106	.2	20	9	484	1.96	6	5	ND	2	22	1	2	2	33	.34	.041	11	19	.37	245	.03	11	.78	.02	.05	1	10
17400E 15100N	1	12	12	82	.2	20	8	334	2.11	9	5	ND	4	24	1	2	2	37	.33	.029	15	25	.45	469	.03	2	.84	.01	.05	1	10
17400E 15550N	1	15	12	194	.1	28	10	416	2.50	9	5	ND	1	30	1	2	2	37	.45	.060	13	24	.44	325	.03	3	.86	.01	.07	1	20
17400E 15600N	2	19	15	159	.1	27	11	615	2.39	9	5	ND	1	30	1	2	3	42	.44	.046	15	25	.51	435	.03	2	1.05	.01	.05	1	10
17400E 15750N	1	16	11	59	.1	26	7	142	1.94	11	5	ND	3	21	1	2	1	33	.32	.035	11	19	.32	319	.02	3	.76	.01	.04	1	20
17400E 15900N	1	12	11	96	.3	22	8	144	1.94	7	5	ND	5	17	1	2	2	16	.25	.022	14	23	.46	341	.02	2	1.00	.01	.05	5	10
17500E 14800N	1	13	12	71	.1	19	6	201	1.95	8	5	ND	1	25	1	2	1	38	.26	.035	10	22	.39	421	.03	5	.75	.01	.05	1	30
17500E 14850N	1	18	20	155	.1	24	9	357	2.00	10	5	ND	1	35	1	2	2	40	.49	.035	16	24	.42	593	.03	2	1.15	.01	.05	1	20
17500E 14900N	1	18	12	87	.3	24	7	240	1.91	5	5	ND	1	36	1	2	2	41	.60	.029	13	21	.38	382	.02	2	.93	.01	.04	1	30
17500E 14950N	2	27	14	107	.1	33	11	320	2.42	14	5	ND	6	28	1	2	2	46	.35	.024	20	26	.51	420	.02	14	.93	.01	.09	1	60
17500E 15000N	1	17	9	62	.1	31	9	154	1.94	11	5	ND	4	24	1	2	2	36	.29	.050	16	25	.41	491	.02	2	.95	.01	.05	1	30
17500E 15100N	1	23	13	87	.3	28	8	320	1.91	12	5	ND	1	44	1	2	2	37	.57	.060	13	21	.42	372	.02	2	.78	.01	.06	1	10
17500E 15450N	1	18	23	195	.1	24	13	691	2.77	14	5	ND	1	54	1	2	2	55	.87	.056	13	30	.54	161	.03	2	1.46	.01	.05	1	20
17500E 15500N	1	16	13	72	.1	51	10	250	2.32	10	5	ND	3	30	1	2	2	32	.29	.064	12	31	.51	353	.03	2	.79	.01	.06	1	10
17500E 15550N	1	11	9	75	.1	20	7	198	1.69	6	5	ND	4	17	1	2	2	24	.23	.032	16	19	.29	109	.02	2	.74	.01	.05	1	20
17500E 15600N	2	16	14	69	.3	32	9	125	2.00	13	5	ND	5	17	1	2	1	41	.21	.019	15	26	.39	376	.02	7	.93	.01	.04	1	30
17500E 15650N	2	14	15	115	.1	26	8	164	2.24	10	5	ND	2	21	1	2	1	42	.20	.046	15	23	.41	287	.02	6	1.02	.01	.04	1	10
17500E 15700N	2	16	14	95	.1	24	9	538	1.95	10	5	ND	2	26	1	2	2	39	.33	.035	13	22	.36	456	.02	3	.90	.01	.05	1	20
17500E 15750N	2	13	12	63	.1	25	7	264	1.94	10	5	ND	4	20	1	2	1	33	.23	.018	17	24	.34	339	.02	3	.73	.01	.05	1	20
17500E 15800N	1	13	11	107	.2	21	7	199	2.09	7	5	ND	4	19	1	2	2	42	.26	.041	14	24	.36	366	.03	2	.94	.01	.05	1	10
STD C	18	63	40	132	7.1	73	31	1019	3.84	36	18	7	36	51	19	19	19	59	.47	.085	28	55	.97	174	.07	34	1.70	.06	.14	12	1400

NORANDA EXPLORATION CO. LTD. PROJECT 8906-01 320 FILE # 89-1378

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
7500N 7000E	2	10	16	84	.2	15	9	121	1.88	12	5	ND	2	20	1	2	2	56	.23	.032	18	20	.62	192	.02	2	1.24	.01	.05	1	10
7500N 7050E	2	11	11	87	.1	14	6	170	1.54	13	5	ND	4	17	1	2	2	39	.20	.032	16	18	.33	264	.02	2	.92	.01	.05	1	10
7500N 7100E	1	17	21	249	.2	24	16	736	2.49	9	5	ND	5	26	1	2	2	90	.29	.035	19	28	.38	757	.05	2	1.70	.01	.09	1	20
7500N 7150E	2	16	19	153	.4	21	10	452	2.36	12	5	ND	4	28	1	2	2	51	.23	.035	21	24	.25	626	.04	2	1.11	.01	.09	1	30
7500N 7200E	2	30	14	141	.3	22	11	415	2.18	10	5	ND	4	37	1	2	2	54	.42	.027	21	22	.41	666	.02	3	1.03	.01	.12	1	50
7500N 7250E	2	35	7	103	.5	27	8	236	1.85	11	5	ND	2	53	1	2	2	41	.79	.051	18	21	.28	615	.02	2	.83	.02	.09	1	70
7500N 7300E	1	25	21	136	.3	29	12	375	2.68	12	5	ND	2	62	1	2	2	58	1.05	.042	14	30	.62	870	.05	2	1.79	.03	.01	1	30
7500N 7350E	1	9	16	130	.1	14	7	219	1.73	8	5	ND	2	25	1	2	2	37	.38	.026	19	23	.43	446	.04	2	1.05	.01	.06	1	10
7500N 7400E	1	23	11	84	.3	22	9	322	1.96	14	5	ND	4	49	1	2	2	34	.81	.109	19	22	.63	471	.04	8	.78	.03	.01	1	120
7500N 7450E	1	12	22	112	.5	17	7	186	1.61	9	5	ND	2	78	1	2	3	32	1.57	.044	12	24	.51	427	.02	2	.96	.01	.16	1	30
7500N 8050E	1	11	9	90	.2	20	9	217	1.88	12	5	ND	3	51	1	2	2	38	.76	.024	16	25	.64	613	.04	9	.69	.02	.05	1	90
7500N 8100E	1	22	10	91	.4	25	9	383	2.14	7	5	ND	2	55	1	2	2	39	.67	.044	17	25	.70	460	.03	2	1.06	.02	.05	1	20
7500N 8150E	1	22	8	79	.2	24	14	279	3.53	16	5	ND	6	36	1	2	2	66	.52	.035	19	36	1.07	463	.06	2	2.03	.02	.07	1	30
7500N 8200E	1	18	15	107	.2	29	12	247	3.40	10	5	ND	5	31	1	2	2	55	.44	.059	17	32	.93	411	.06	6	1.92	.02	.07	1	20
7500N 8250E	1	20	15	86	.1	33	17	209	4.22	7	5	ND	3	35	1	2	2	68	.49	.021	12	39	1.14	293	.08	3	2.66	.03	.05	1	20
7500N 8300E	1	20	11	80	.1	30	17	256	3.98	5	5	ND	4	34	1	2	2	65	.43	.027	14	37	1.11	461	.06	2	2.24	.02	.06	1	30
7500N 8350E	2	24	14	116	.1	32	17	348	4.24	10	5	ND	3	31	1	2	2	72	.42	.050	16	40	1.15	493	.07	3	2.65	.02	.07	1	20
7500N 8400E	1	28	11	104	.1	39	21	463	5.23	8	5	ND	3	42	1	2	2	80	.70	.068	15	44	1.41	428	.07	5	3.10	.03	.06	1	20
7500N 8450E	2	24	16	96	.1	34	15	287	3.99	27	5	ND	3	33	1	2	1	66	.87	.041	14	35	1.04	511	.05	2	2.13	.02	.07	1	30
7500N 8500E	2	16	12	72	.2	23	9	254	2.21	12	5	ND	5	29	1	2	1	40	.39	.044	20	27	.55	344	.05	9	.93	.01	.06	1	20
7500N 8550E	2	20	14	97	.1	25	9	151	2.70	14	5	ND	1	20	1	2	2	60	.20	.029	19	31	.58	585	.03	2	1.80	.01	.06	1	30
7500N 8600E	2	22	20	168	.1	25	12	551	2.35	10	5	ND	1	41	1	2	1	55	.66	.051	16	28	.36	334	.02	4	1.39	.01	.07	1	20
7500N 8650E	1	18	16	113	.4	26	9	277	2.18	13	5	ND	2	71	1	2	1	52	1.04	.022	15	27	.65	587	.04	8	1.29	.02	.06	1	30
7500N 8700E	1	31	8	77	.1	45	11	293	2.14	13	5	ND	3	35	1	2	2	41	.59	.044	23	29	.62	505	.02	11	1.11	.02	.06	1	70
7500N 8800E	2	21	12	77	.2	23	9	311	1.98	13	5	ND	3	43	1	2	2	35	.52	.075	18	24	.52	304	.03	5	.81	.02	.06	1	80
7500N 8850E	2	15	15	72	.1	25	8	137	2.18	12	5	ND	4	19	1	2	2	53	.23	.029	17	29	.43	521	.03	3	1.39	.01	.05	1	20
7500N 8900E	2	22	8	101	.1	31	9	242	2.19	12	5	ND	3	25	1	2	2	44	.27	.042	19	27	.41	603	.02	2	1.14	.01	.05	1	40
7500N 8950E	2	21	17	84	.1	33	10	227	2.94	27	5	ND	2	24	1	2	2	49	.32	.058	15	30	.43	445	.02	5	1.21	.01	.07	2	30
7500N 9000E	2	12	11	66	.1	23	8	139	2.17	11	5	ND	4	46	1	2	2	51	.70	.015	13	29	.50	357	.03	4	1.39	.01	.04	1	30
7500N 9050E	2	15	11	91	.1	25	9	156	2.60	16	5	ND	3	17	1	2	2	56	.22	.034	14	29	.40	279	.05	5	1.52	.01	.06	1	20
7500N 9100E	2	15	17	93	.1	25	9	129	2.45	19	5	ND	4	17	1	2	2	59	.18	.029	15	30	.29	511	.04	4	1.44	.01	.05	1	30
7500N 9150E	2	17	15	88	.1	30	10	142	2.71	20	5	ND	4	38	1	2	2	62	.87	.020	12	32	.53	454	.03	2	1.72	.02	.03	1	30
7500N 9200E	2	21	13	157	.1	37	12	409	3.87	19	5	ND	5	35	1	2	2	91	.51	.019	13	35	.52	725	.04	6	1.94	.01	.04	1	20
7500N 9250E	2	24	16	121	.1	33	10	266	3.06	30	5	ND	3	32	1	2	5	60	.47	.041	18	33	.52	449	.04	8	1.54	.01	.05	1	40
7500N 9300E	2	15	13	91	.1	25	9	162	2.51	19	5	ND	3	21	1	2	2	51	.27	.030	14	31	.48	510	.04	9	1.34	.01	.04	1	10
7500N 9400E	2	28	26	115	.2	43	14	291	3.33	17	5	ND	4	30	1	2	2	55	1.30	.036	19	27	.97	783	.11	8	1.73	.02	.05	1	20
STD C	18	63	37	132	7.1	72	31	1014	3.75	40	15	6	37	50	18	11	23	59	.45	.089	38	56	.85	179	.07	36	1.70	.06	.12	11	1300

NORANDA EXPLORATION CO. LTD. PROJECT 8906-01 320 FILE # 89-1378

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Hg PPB
[illegible]	1	16	11	89	.1	45	14	215	2.69	12	5	ND	3	20	1	2	2	34	.27	.048	11	52	.61	431	.04	2	.90	.01	.04	1	20
[illegible]	1	13	12	65	.1	113	20	253	3.07	9	5	ND	3	14	1	2	2	31	.22	.014	11	82	1.22	361	.04	2	.78	.01	.03	1	30

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: LUKESHANE

CODE : 8906-001

Project No. :320 Sheet:1 of 5 Date rec'd:MAY.29
Material :242 SOILS Geol.:D.E. Date compl:JUN.06
Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	PPB Au
64	14900E-14750N	5
65	14800	5
66	14850	5
67	14900	5
68	14950	5
69	15000	5
70	15050	5
71	14900E-15100N	5
72	15000E-14850N	5
73	14900	5
74	14950	5
75	15000	5
76	15050	5
77	15000E-15100N	5
78	15100E-14900N	5
79	14950	5
80	15000	5
81	15050	5
82	15100E-15100N	5
83	15200E-14850N	5
84	14950	5
85	15000	5
86	15050	5
87	15200E-15100N	5
88	15300E-14800N	5
89	14850	5
90	14900	5
91	14950	5
92	15300E-15050N	5
93	15400E-14800N	5
94	14850	5
95	14900	5
96	14950	5
97	15400E-15000N	5
98	15500E-14850N	5
99	15000	5
00	15500E-15050N	5
2	15600E-14850N	5
3	14900	5
4	14950	5
5	15000	5
6	15050	5
7	15600E-15150N	5
8	15700E-14900N	5
9	14950	5
0	15050	5
1	15700E-15100N	5
2	15800E-14800N	5

T. T. No.	SAMPLE No.		PPB Au
13	15800E-14850N		5
14	14950		5
15	15000		5
16	15100		5
17	15800E-15150N		5
18	15900E-15000N		5
19	14850		5
20	15000	DUP?	5
21	15050		5
22	15100		5
23	15900E-15150N		5
24	16000E-14800N		5
25	14900		5
26	15050		5
27	15100		5
28	16000E-15150N		5
29	16100E-14800N		5
30	14850		5
31	14900		5
32	15100		5
33	16100E-15150N		5
34	16200E-14800N		5
35	14850		5
36	14900		5
37	15000		5
38	15150		5
39	16200E-15200N		5
40	16300E-14800N		5
41	14850		5
42	14950		5
43	15000		5
44	15100		5
45	15150		5
46	16300E-15200N		5
47	16400E-14800N		5
48	14850		5
49	14900		5
50	15000		5
52	15050		5
53	15100		5
54	15150		5
55	15200		5
56	16400E-15250N		5
57	16500E-14800N		5
58	14850		5
59	14950		5
60	15000		5
61	15050		5
62	15100		5
63	16500E-15150N		5
64	16600E-14800N		5
65	14850		5
66	14900		5
67	16600E-15000N		5
68	16700E-14800N		5
69	14850		5
70	16700E-14900N		5

T. No.	SAMPLE No.	PPB Au
71	16800E-14950N	5
72	15000	5
73	15050	5
74	15200	5
75	16800E-15300N	5
76	16900E-14850N	5
77	14900	5
78	14950	5
79	15000	5
80	15050	5
81	15250	5
82	15300	5
83	15400	5
84	15450	5
85	15500	5
86	15550	5
87	15600	5
88	15750	5
89	16900E-15800N	5
90	17000E-14850N	5
91	14900	5
92	14950	5
93	15000	5
94	15050	5
95	15250	5
96	15300	5
97	15350	5
98	15400	5
99	15450	5
00	15500	5
55	15550	5
56	15600	5
57	15650	5
58	15700	5
59	15750	5
60	17000E-15800N	5
61	17100E-14900N	5
62	14950	5
63	15000	5
64	15050	5
65	15300	5
66	15350	5
67	15400	5
68	15450	5
69	15550	5
70	15600	5
71	15650	5
72	15700	5
73	17100E-15750N	5
74	17200E-14850N	5
75	14900	5
76	15000	5
77	15050	5
78	15400	5
79	15450	5
80	15550	5
81	17200E-15600N	5

. T. No.	SAMPLE No.	PPB Au
82	17200E-15650N	5
83	15700	5
84	15750	5
85	17200E-15800N	5
86	17300E-14800N	5
87	14850	5
88	14900	5
89	15000	5
90	15050	5
91	15100	5
92	15500	5
93	15550	5
94	15600	5
95	15650	5
96	15700	5
97	15750	5
98	17300E-15800N	5
99	17400E-14800N	5
00	14850	5
64	15000	5
65	15050	5
66	15100	5
67	15450	5
68	15500	5
69	15550	5
70	15600	5
71	15750	5
72	17400E-15800N	5
73	17500E-14800N	5
74	14850	5
75	14900	10
76	14950	10
77	15050	5
78	15100	5
79	15450	5
80	15500	5
81	15550	5
82	15600	5
83	15650	5
84	15700	5
85	15750	5
86	17500E-15800N	5
87	7500N-7000E	5
88	7050	5
89	7100	5
90	7150	10
91	7200	5
92	7250	5
93	7850	5
94	7900	5
95	7950	5
96	8000	5
97	8050	5
98	8100	5
99	8150	5
00	8200	5
[illegible]	7500N-8250E	5

T. T. No.	SAMPLE No.	PPB Au
53	7500N-8300E	5
54	8350	5
55	8400	5
56	8450	5
57	8500	5
58	8550	15
59	8600	5
60	8650	5
61	8700	5
62	8800	5
63	8850	5
64	8900	5
65	8950	5
66	9000	5
67	9050	5
68	9100	5
69	9150	5
70	9200	5
71	9250	5
72	9350	5
73	9400	5
74	9450	5
75	7500N-9500E	5

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 9-AUG-89

REPORT: V89-04351.0

PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Pb PPM	As PPM	Hg PPB	Sb PPM
R2 R16		144		18	>1000.0		
R2 R18		20	<0.1		440.0	20	<2
R2 R19		489	26.2		>1000.0	180	34
R2 R20		20	0.2		190.0	10	<2
R2 R21		147	6.3		>1000.0	80	50
R2 R22		12	<0.1		100.0	<5	<2
R2 R23		9	<0.1		200.0	15	6
R2 R24		13	<0.1		26.0	80	6
R2 R25		6	<0.1		21.0	55	<2
R2 R26		6	<0.1		190.0	150	<2
C2 C33		<5	0.6		215.0	70	9
C2 C34		<5	<0.1		50.0	60	6

Trench #1
Sample by A Carle

Robert Campbell Highway

Pelly River

Horton Creek

Lake

Bruce

Nickel Lake

3000

3500

4000

BL 15000 N

14800 E

10500 N

9500 N

10500 E

10000 E

8500 E

17500 E

7500 N

8000 N

BL 7500 N

7000 N

NORTH GRID

CENTRAL GRID

SOUTH GRID

Access Road

CLAIM BOUNDARY

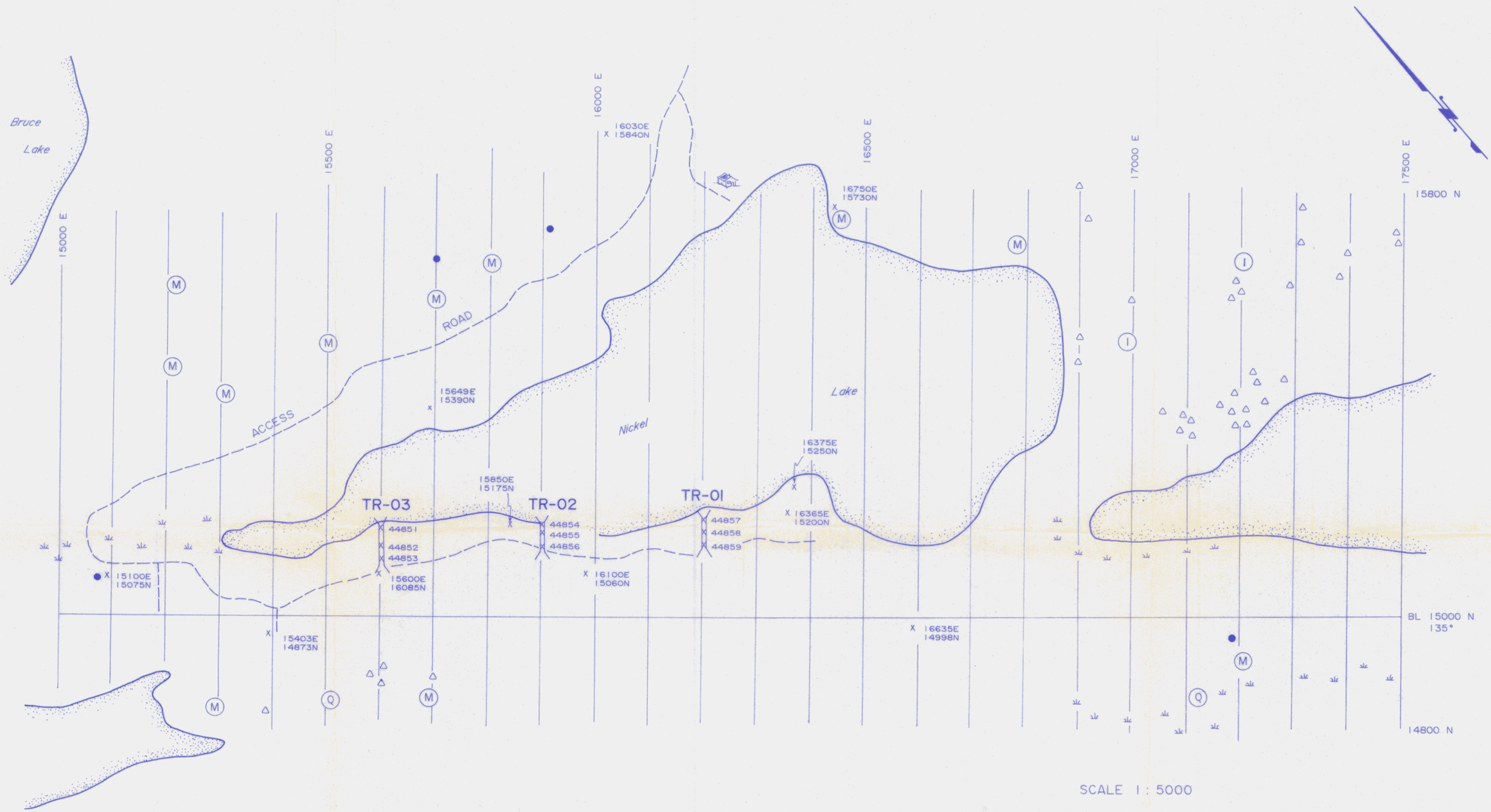
SCALE 1 : 10,000

250 0 250 500 750 1000 METRES

Fig 6

REVISED	LUKESHANE CLAIMS
	GRID LOCATION (148)
	105 F 16
PROJ. No.	SURVEY BY: G.M. D.B. DATE: September 1989
N.T.S.	DRAWN BY: INTEGRAPHICS LTD. SCALE: 1 : 10,000
DWG. No. 1	NORANDA EXPLORATION
	OFFICE: Whitehorse

092756

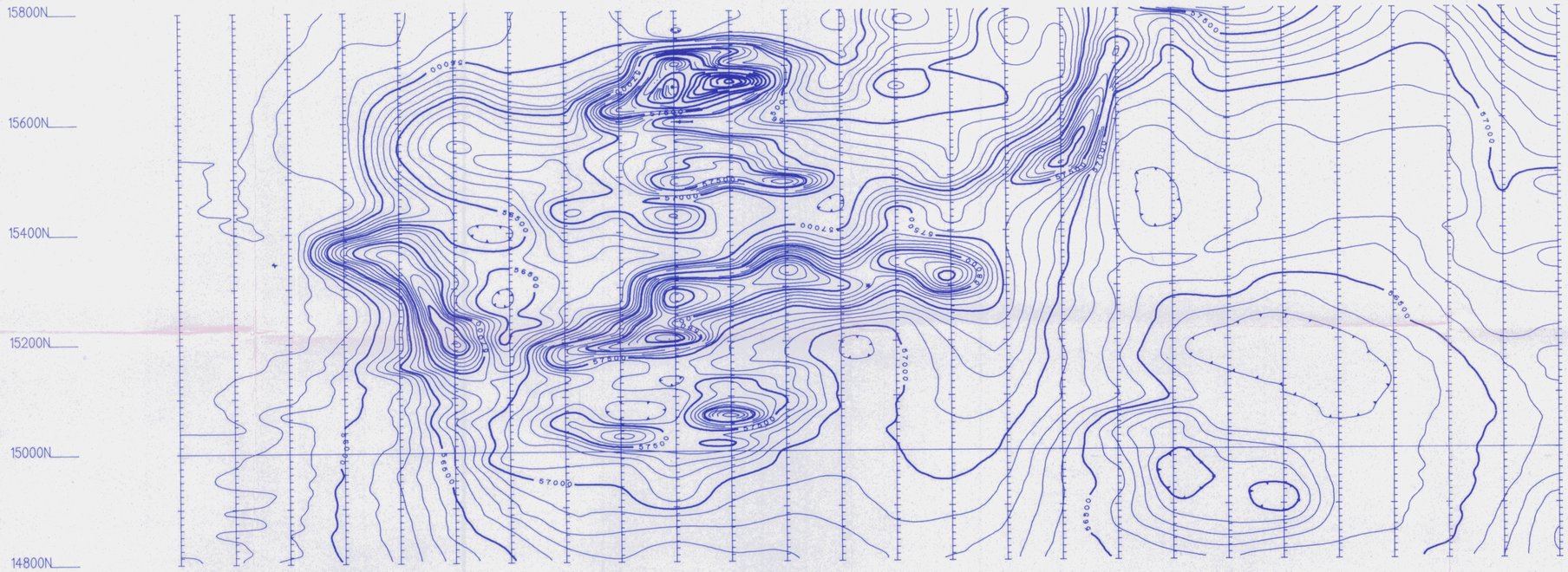


LEGEND

	SWAMP	(M)	METAMORPHIC FLOAT
	TRENCH	(Q)	QUARTZ
	CABIN	(I)	
	VOLCANIC BRECCIA FLOAT	X	ROCK SAMPLE LOCATION
	ULTRAMAFIC FLOAT		

REVISED	LUKESHANE CLAIMS
	GRID LOCATION (149) 105F 16 Fig 7
PROJ. No.	SURVEY BY: D. Brent DATE: September 1989
N.T.S.	DRAWN BY: INTEGRAPHICS LTD. SCALE: 1 : 5000
DWG. No. 2	NORANDA EXPLORATION OFFICE: Whitehorse

092756



Instrument : OMNI
Field : TOTAL
Datum : 0.0 nT

Contour Interval : 100 nT

Conductor Axis :

100m 50m 0m 100m 200m

LUKESHANE

MAGNETOMETER SURVEY (150)

PROJECT: LUKESHANE PROJECT # : 320
BASELINE AZIMUTH : 135 Deg. 105 F 16

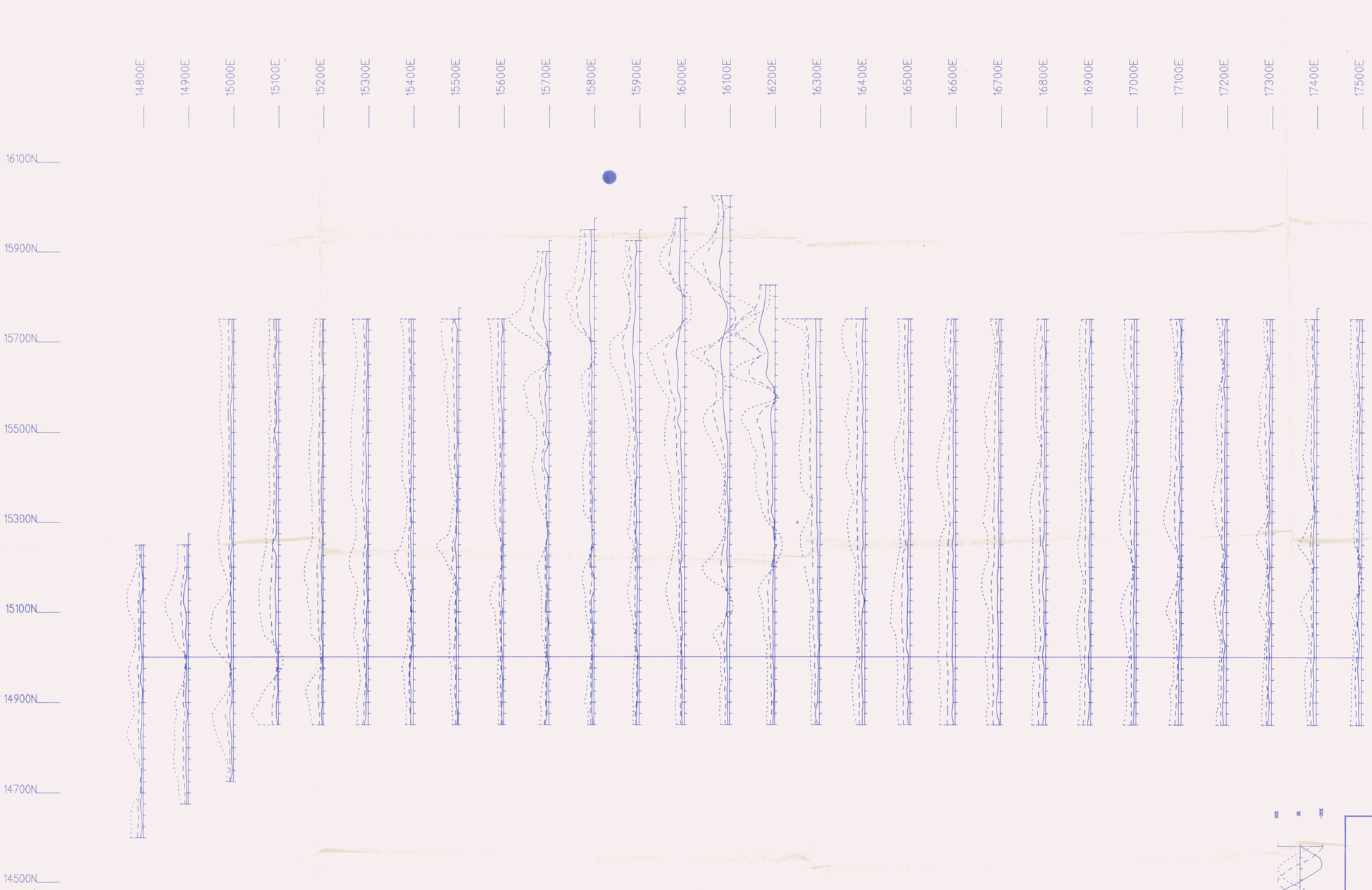
SCALE = 1 : 5000 DATE : 3/21/89
SURVEY BY : NTS : 1050
FILE: M320LUK
NORANDA EXPLORATION Fig 8

Vers. 5.00 Tue 28 Mar 1989 at 12:51 Centre of plot at 16250.0E/15300.0N Serial # MB9140 Registered User : NORANDA EXPLORATION

092756

14800E 14900E 15000E 15100E 15200E 15300E 15400E 15500E 15600E 15700E 15800E 15900E 16000E 16100E 16200E 16300E 16400E 16500E 16600E 16700E 16800E 16900E 17000E 17100E 17200E 17300E 17400E 17500E

16100N
15900N
15700N
15500N
15300N
15100N
14900N
14700N
14500N



Instrument :
Coil Spacing : 100m
Ref. Frequency : 112 Hz
Vertical Scale : 1 cm = 20%
Conductor Axis :
337 Hz ———
1012 Hz — — — —
3037 Hz - - - - - -

100m 50m 0m 100m 200m

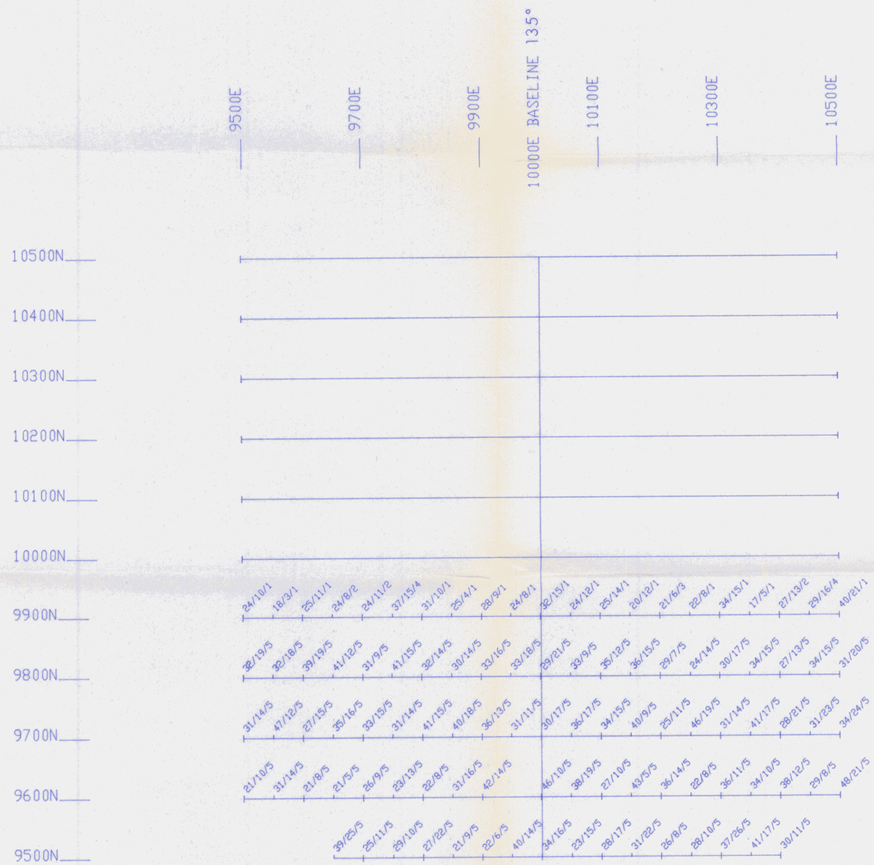
LUKESHANE

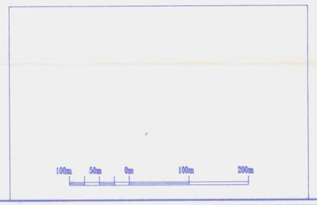
SE-88 EM SURVEY 092756

PROJECT: LUKESHANE PROJECT # : 320 151
BASELINE AZIMUTH : 135 Deg. 105 F16

SCALE = 1: 5000 DATE : 3/21/89
SURVEY BY : NTS :
FILE: S320LUK
NORANDA EXPLORATION Fig 9

Vers. 5.00 Thu 6 Apr 1989 at 7:24 Normal Profile Centre of plot at 16250.0E/15300.0N Serial # 589140, Registered User : NORANDA EXPLORATION





LUKESHANE (North Grid)

SOIL GEOCHEMICAL SURVEY

PPM Ni / PPM As / PPB Au

PROJECT: LUKESHANE PROJECT # : 320

BASELINE AZIMUTH : 135 Deg.

SCALE = 1: 5000 DATE : 5/26/89

SURVEY BY : DB NTS : 105/O

FILE: C320LUKN

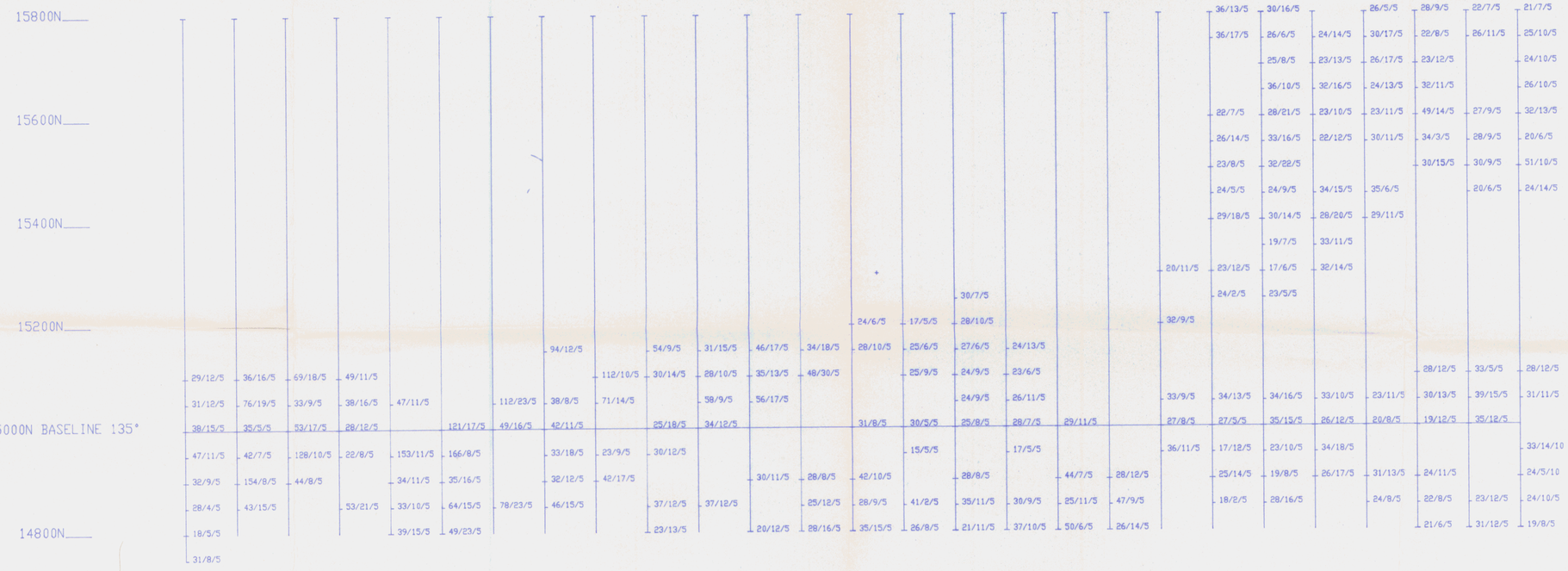
NORANDA EXPLORATION

152

105 F 16

Fig 12

092756



LUKESHANE (Central Grid)

SOIL GEOCHEMICAL SURVEY

PPM Ni / PPM As / PPB Au

PROJECT: LUKESHANE PROJECT # : 320 (153)

BASELINE AZIMUTH : 135 Deg. 105 F 16

SCALE = 1: 5000 DATE : 5/26/89

SURVEY BY : DB NTS : 105/O

FILE: C320LUKC

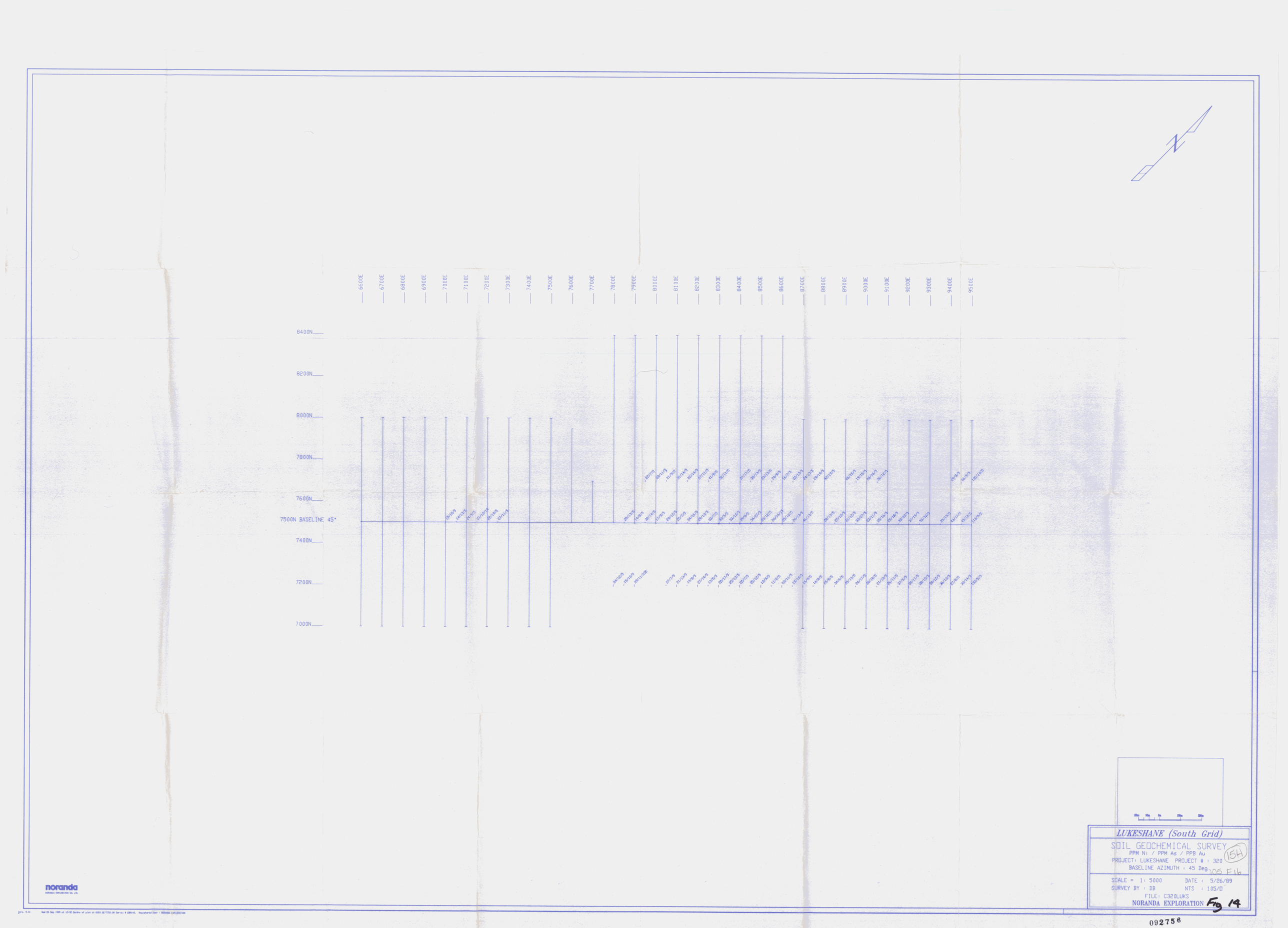
NORANDA EXPLORATION

Fig 13

noranda

Vers. 5.01 Wed 20 Sep 1989 at 12:12 Centre of plot at 16250.0E/15300.0N Serial # C09140. Registered User : NORANDA EXPLORATION

092756



noranda
NORANDA EXPLORATION CO., LTD.

100m 50m 0m 100m 200m

LUKESHANE (South Grid)

SOIL GEOCHEMICAL SURVEY
PPM Ni / PPM As / PPB Au
PROJECT: LUKESHANE PROJECT # : 320
BASELINE AZIMUTH : 45 Deg

(15H)
105 E/16

SCALE = 1: 5000 DATE : 5/26/89
SURVEY BY : DB NTS : 105/01
FILE: C320LUKS
NORANDA EXPLORATION

Fig 14

092756