HEMLO GOLD MINES INC.

REPORT OF WORK

PETRANT LAKE OPTION

N.T.S. 42C/13

WEST PRECAMBRIAN DISTRICT

Project No.406
Hemlo,Ontario
March 30,1995

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Senior Geologist
Hemlo Gold Mines Inc.

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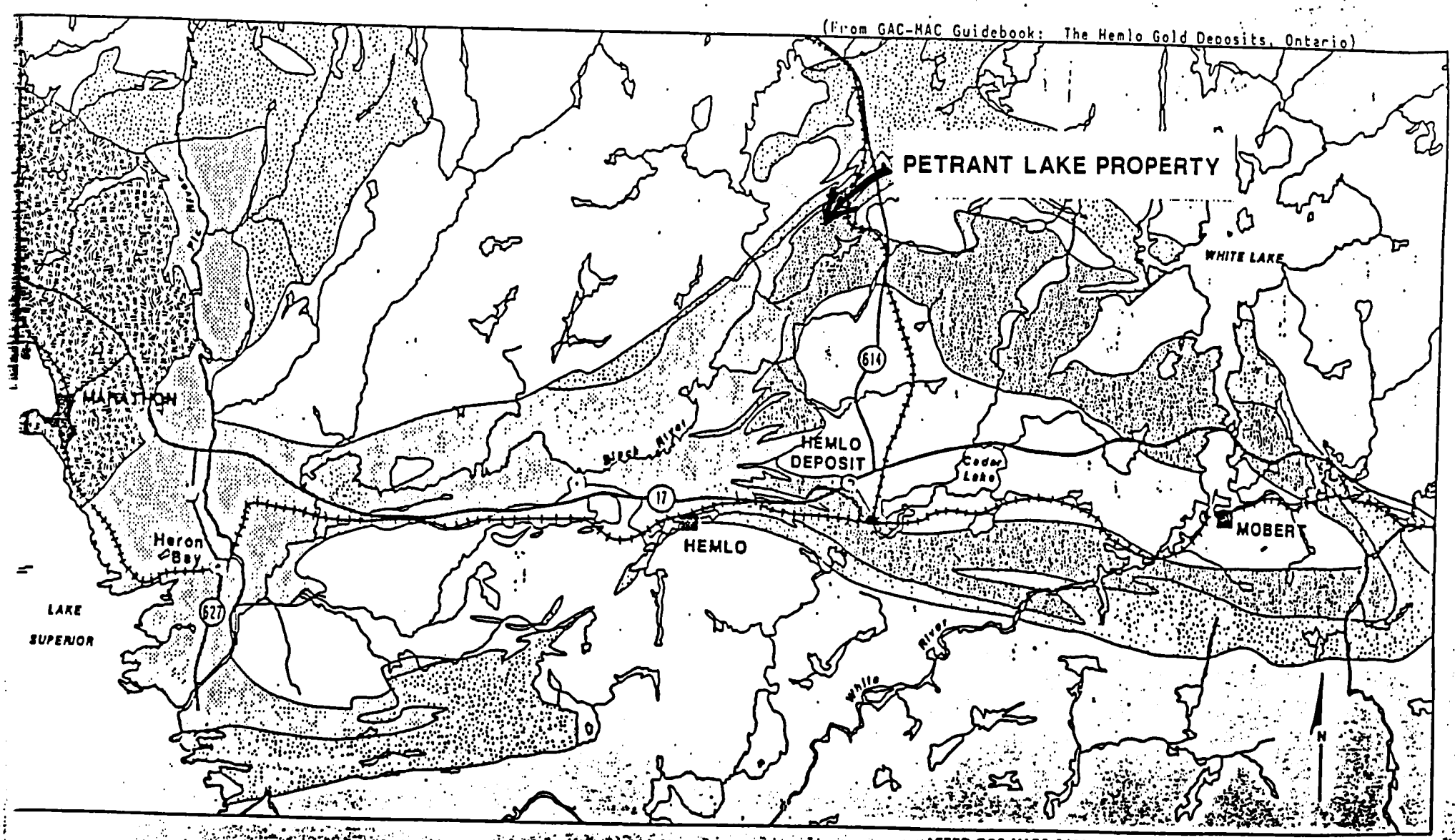
SUMMARY

During the period of June 1 through to October 23, 1994, a reconnaissance work program consisting of geological mapping and sampling, a magnetometer survey, soil geochemistry survey and overburden trenching/ stripping was conducted on the Petrant lake claim group,located approximately 13 kilometres north of Highway 17 and west of Highway 614.The Objective of the program was to evaluate known sulphide rich felsic volcaniclastic horizon that stretches the length of the property.

A widely spaced grid was used to help tie in the work. Traverses were also run between some lines and in areas outside the grid. The felsic volcaniclastic horizon was prospected along its strike length but no significant gold values were obtained. However, due to IP responses to the south west and a suggestion of alteration to the north-east and the similarity in appearance to the Hemlo deposit further evaluation is recommend with additional prospecting and geophysical surveys (mag and IP) in order to develop drill targets.

(From GAC-MAC Guidebook: The Hemlo Gold Deposits, Ontario)



AFTER OGS MAPS 2462, 2439, 2143, 2144, 2145, 2146, 2147, 2098, 2099

LOCATION MAP

PETRANT LAKE PROPERTY

PROTEROZOIC

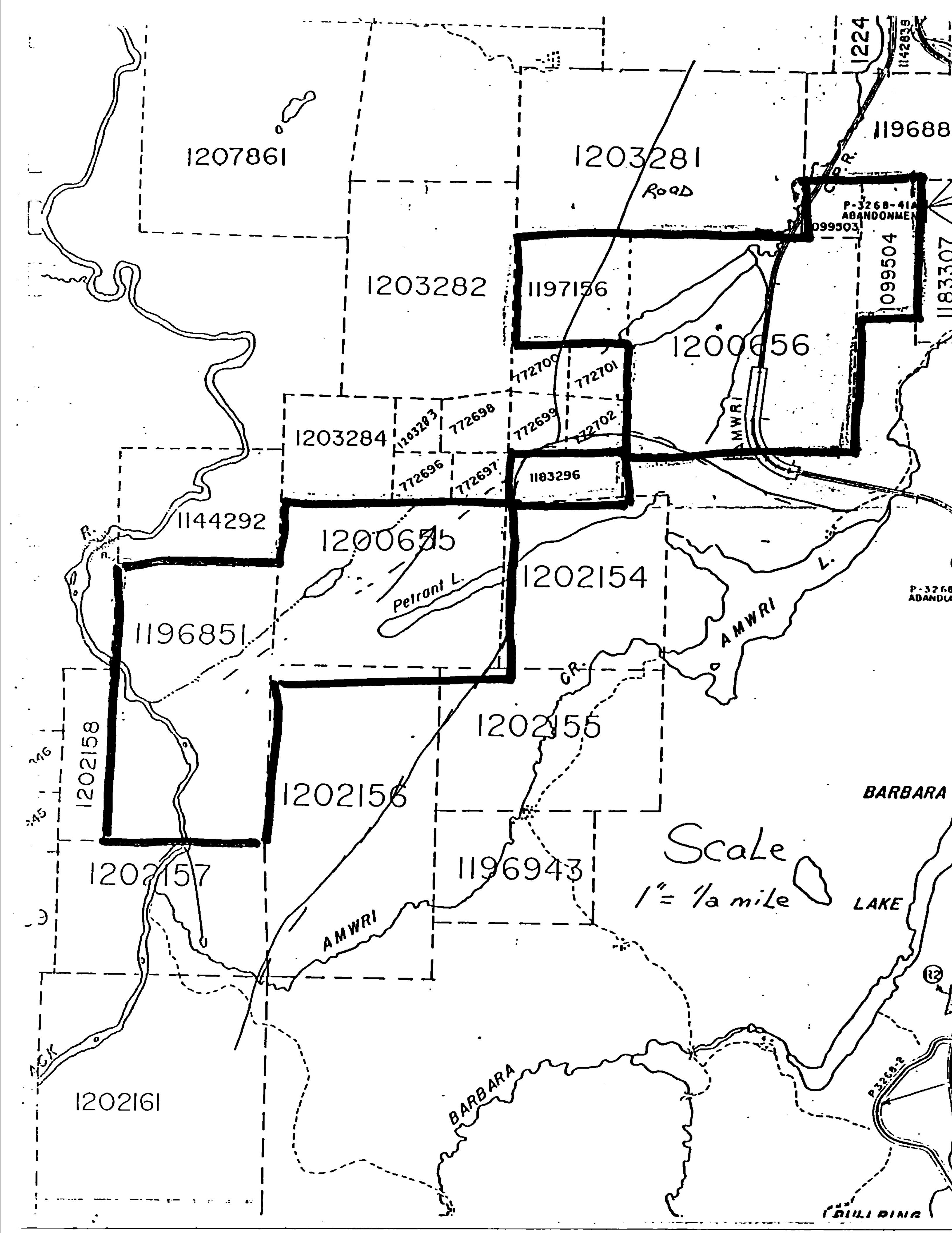
COLDWELL COMPLEX ALKALINE INTRUSIVE

CHEAN

GRANITIC ROCKS

METASEDIMENTS, PELITE, SILTSTONE, CALC-SILICATES, ARGILLITE

FELSIC METAVOLCANICS, TUFFS TO BRECCIAS



1207861
1203281
ROAD
1203282
1197156
1200656
1203284
1203283
772698
772699
772700
772701
772702
772696
772697
1183296
1144292
1200655
1202154
Petront L.
1196851
AMWRI
L.
CR.
1202155
1202158
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1202157
1196943
Scale
1" = 1/2 mile
BARBARA
LAKE
AMWRI
BARBARA
1202161
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1142838
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ABANDONMEN
099503
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1183307

1.0 INTRODUCTION

During the period of June 1 through to October 23,1994, a reconnaissance exploration program to quickly evaluate the optioned Petrant property was conducted. Geological mapping, prospecting, some soil geochemical sampling and a stripping program was conducted using a widely spaced reconnaissance grid to tie the work programs together.

The main objective of the program was to evaluate the gold potential of the property and specifically the known sulphide rich felsic volcaniclastic horizon that strikes across the property. It was felt that there could be a porphyritic intrusive complex along the horizon that could be the source of the silicification and sericitization and possible gold mineralization.

2.0 LOCATION AND ACCESS (Figure 1)

The Petrant Lake property extends is located approximately 13 kilometres north of Highway 17 and the eastern boundary straddles the west side of highway 614.From highway 614 the property extends approximately 7.5 kilometres to the Black River in the south-west. Several secondary roads and trails including the Amwri Lake and Pinegrove Lake roads allow access to much of the property.

3.0 PROPERTY DESCRIPTION (Figure 2)

Seven (17) unpatented contiguous mining claims totalling 53 claim units (listed below) comprise the Petrant Lake property. All of the claims are located in the Wabikoba Lake area (G-620) and are contained within the Thunder Bay Mining District.

The property is under option from B.Fowler and M.Shuman of Marathon Ontario.

CLAIM NUMBERS		# of units
TB 1099503-504	(inclusive)	4
TB 1183296		2
TB 1196851		15
TB 1197156		4
TB 1200655-656	(inclusive)	28
7 claims		53 units

4.0 PREVIOUS WORK

The Petrant Lake property has experienced moderately heavy exploration in the past, particularly in the early to mid-1980's when the Hemlo gold deposits were discovered..

The following is a summary of previous work conducted on various portions of the Hemlo West property:

Noranda Exploration Company, Ltd. (1990-93)
-geological mapping and prospecting, soil geochemistry
-ground mag and induced polarisation
-diamond drilling; 3 holes
-trenching

Newmont (1990)
-geological mapping and prospecting
-diamond drilling; 2 holes

Mcintyre
-AEM
-diamond drilling

Lenora
-geological mapping
-diamond drilling

Noranda Exploration Company Limited (1976)
-AEM
-geological and geophysical surveys

5.0 REGIONAL GEOLOGY

The Petrant Lake property is located on the north limb of the Archean Schreiber-Hemlo greenstone Belt that is part of the Abitibi-Wawa-Shebandowan Subprovince of the Superior Province. The area contains a dominantly east- west striking sequence of metavolcanic and metasedimentary rocks bounded to the North and south by late large granitoid plutons, Gowan Lake, Musher Lake, Cedar Lake and Heron Bay plutons.

The supracrustal rocks consist principally of tholeiitic basaltic flows and subordinate tuffs, intercalated with epiclastic arkosic wacke and siltstone. Interbeds of intermediate to felsic volcanic tuffs and/or volcaniclastic sediments occur locally, and feldspar porphyry dikes and sills intrude both volcanics and sediments.

A felsic horizon of rusty volcaniclastic/sedimentary rock, which has been silicified and sericitized and contains green mica strikes across the north limb. Exploration in the past (and the current program) has concentrated on this zone because of similarities with the Hemlo deposit, i.e. pyrite and green mica.

6.0 LINECUTTING

Initially a 9.3 kilometre orientation grid was cut with 1000 meter line separation. The origin of the baseline was on Highway 614 approximately 100 meters south of Summers Lake with a final azimuth of 60 degrees. A second baseline was cut over the felsic volcaniclastic horizon 1.0 kilometres to the North. A total of 6.7 kilometres was completed with line separations of 400-200 meters. The line cutting was done by Vytyl Explorations Services of Thunder Bay, Ontario. The first phase was completed in June 1994 and the second in August 1994.

7.0 PROPERTY GEOLOGY (Map 1)

7.1 Introduction

During the period from May 16 through October 23, 1994, geological mapping was conducted on the Petrant Lake property by John Londry,Rob Tillsley and Brian Pollk under the supervision of John Londry. Mapping was performed along the cut grid lines and occasionally on intermediate flagged grid lines over the entire property.

Geological data from previous mapping and drilling programs in the project area were reviewed and the geology compilation map was updated accordingly.

7.2 Lithologies

7.2.1

Mafic MetavolcaMafic volcanics underlie the southern two-thirds of the property. Flows predominate with occasionally well preserved pillow structures indicating northerly tops. Relatively narrow units of mafic tuff to lapilli tuff are locally present.

The mafic volcanics are generally dark green, fine grained, chloritic, and frequently amphibilotized to varying degrees.

7.2.2 Intermediate to Felsic Metavolcanics

Intermediate volcanic tuffs occur in the north-west part of the property along and north of the power line, and narrow units are intercalated with the clastic sediments to the South.

These rocks are grey with a buff coloured weathered surface, fine to medium grained, and contain abundant feldspar crystals 1 to 2mm in size. They are frequently massive and featureless, or can be bedded and compositionally banded indicating some reworking.

7.2.3 Volcaniclastic Sediments

The sulphide rich felsic volcaniclastic unit strikes across the entire property from east-west. The sulphides was predominantly pyrite and ranged up to 10% disseminated through out the rock.

The felsic volcaniclastic unit containing thin (<5cm) calc-silicate bands, which are often contorted and occasionally dismembered to form pseudofragments. Felsic pebbles and mud chip conglomerate interbeds were also observed. The unit is a light grey in colour and it is usually rust stained on the weathered surface. It appears to be silicifed throughout with sericitization varying along strike. Green mica was also noted locally. The alteration is similar in appearance to what has been noted in the Hemlo area.

7.2.4 Clastic Metasediments

The northern third of the property is dominated by clastic metasediments consisting of siltstone to fine sandstone thinly bedded turbidites with occasional interbeds of heterolithic pebble to cobble conglomerate.

The metasediments are grey to dark grey with light grey to buff coloured weathered surfaces. They are typically relatively mature quartzo-feldspathic sediments, moderately biotitic, and locally amphibilotized. Andalusite bearing pelites are present in the extreme north-eastern part of the property.

Graded bedding is occasionally preserved and generally indicates tops to the North.

7.2.5 Intrusive Rocks

Dioritic feldspar porphyry sills <1m to several metres thick have intruded mafic volcanics and sediments along the south flank of the baritic zone, and occasionally the sediments to the North. These rocks consist of a dark grey fine grained dioritic groundmass with 30 to 40% subhedral feldspar phenocrysts 1 to 3mm wide. The sills are generally massive and apparently unaltered, although minor sericite +/- iron carbonate alteration occurs locally.

Gabbro, and more commonly diorite sills and dikes,1 to 10m wide, intrude both metasediments and metavolcanics. A feldspar porphyry plug was identified south of Phil Lake. Texturally in appearance it is similar to the described diorite sills. This body appears to disrupt the felsic volcaniclastic horizon. There were no intrusive complexes identified along the volcaniclastic horizon.

7.3 Lithogeochemistry (Appendix I)

Including samples obtained in the trenching program, a total of 153 grab and channel samples were obtained from the Petrant Lake property during this work

program. All samples were analysed for Au, and 49 whole rock plus 1 multi-element ICP analyses were obtained.

No economic gold values were encountered. The majority of the samples returned <5ppb Au. Whole rock and ICP analysis did not reveal indications of hydrothermal alteration.

8.0 PROSPECTING

A small prospecting programme was conducted along the strike length of the sulphide rich felsic volcaniclastic. Five days of prospecting was done. Prospecting was carried out by Sid Thompson, Mick and Steve Stares, and Bruce Maclachlan.

The old magnetic, IP and geological data were used as a guide for the prospecting, helping to focus in on the felsic horizon. Samples were collected along the length of the horizon where there was exposure or stripping. These were all analysed for gold and selected samples for whole rocks and major oxides. The horizon is distinct in appearance and there was no problem in following it. The exposure (east of the feldspar porphyry plug) on the eastern end was poor and there was difficulty in following the horizon. It was felt that the horizon had narrowed dramatically.

Of the 65 samples that were collected along the horizon, there were no significant gold values (the highest value was from 18961-I at 80 ppb).

9.0 SOIL GEOCHEMISTRY SURVEY (Map 3, Appendix II)

9.1 Introduction

During September 1994, one hundred and seventeen (117) B-horizon soil samples were collected from 25m spaced stations The samples were collected by Mike Andrychuk and John Londry of Noranda Exploration, Thunder Bay. These were collected along the stripped areas and over the felsic volcaiclastic horizon on the western end of the grid where outcrop is not abundant.

200-300 gram samples were obtained by digging with grubhoes to a depth of 10-25 cm at each station. The samples were forwarded to the Norex laboratory in Bathurst, New Brunswick, where they were dried and sieved to 80 mesh, digested by aqua-regia and analysed for Au and by A. A atomic
Absorption.

9.2 Results

The results of the soil geochemistry survey are contained within Appendix II and are plotted on Map 3.

Only 1 of the 117 soil samples returned values greater than the detection limit for gold (>5 ppb Au) with analyses up to a maximum of 50 ppb Au. The anomalous value is an isolated spot high occurring at I5+00E/107+25N that was obtained on bedrock consisting of altered clastic sediments. Two silt samples from the creek on line

32E and 36E also returned gold values of <5 ppb. IP anomalies and the corresponding felsic volcaniclastic horizon are located on or along the creek.

10.0 TRENCHING PROGRAM (Maps 2,3and 4)

10.1 Introduction

During the period of September through October 1994, a trenching program was conducted on the Petrant Lake property. Three linear trenches totalling 215m in length were excavated, exposing bedrock over an area of approximately 645 sq. m. The stripped areas were washed and selective channel samples were collected. Any part of the stripping that was over 1.5 meters deep was filled in. Overburden in most cases was <1.0 meters deep.

Supervision of the trenching program was carried out by John Londry and mapping and sampling being carried out by Bruce Maclachlan and Jonathan MacIsaac all employees of Noranda Exploration Company, Limited.

Trenching was performed by Dale Methot of Methot Excavating, Thunder Bay, using a track mounted Caterpillar 219 excavator at an hourly rate of $80 plus $75/hour for float (transportation) charges.

10.2 Results

The trenches were mapped at a scale of 1:200 (see Maps 3-5).The assay results are appended.

Trench #1(L46 110+00N-111+25N) was the southern extension of an old 1983 stripped area. It was designed to examine the possibility that the old trench did not fully examine an IP response along the line and to provide a complete section to the granodioritic plug.

Trench #2(L56 109+35N-110+00N) was designed to expose a section of the sulphide mineralized volcaniclastic horizon however steep topography to the South, wet ground to the north and deep overburden prevented a complete section being stripped. The feldspar porphyry and sediments that were exposed were altered silicified and mineralized.
Trench #3(L71+50 103+50N-104+50N)again was to examine the altered volcaniclastic horizon but again topography prevented completing a section across the horizon. However a section south of the horizon was exposed uncovering a sequence of altered sediments being intruded by felsic granodiorite dykes, mafic dykes, and quartz feldspar porphyries. No significant mineralization was observed.

Forty-seven (47) channel samples were collected from the three trenches. All the samples were Analyzed for gold along with 11 samples for whole rock determinations. There were no significant gold values returned. There were no significant indication of alteration from the whole rock results although the potassium to sodium ratio in trench #3 was up to around 1.0, while in the rest of the trenches the

ratios were < 0.5 indicating a somewhat enrichment of potassium and depletion of sodium. This may be explained by the proximity of the diorite plug to the South.

11.0 DIAMOND DRILL CORE

11.1 Introduction

The Ministry of Northern Development and Mines had acquired Newmont's core from their two Summers Lake drill core that had not been reportedfor assessment work. Newmont's Summers Lake hole No.2 (1181') was located at 38+75E/112+00N. The MNDM had retrieved the core and had stored it at their core storage area in Marathon. The core was quickly re-logged by Kevin Thomson a geologist with Noranda Exploration. The hole had intersected the altered sulphide rich volcaniclastic horizon. Selected samples were collected through the altered parts of the hole and were analyzed for gold and whole rock. The results and the log are appended.

Noranda's 1983 drill hole PN-4 was also selectively resampled with gold and whole rock determination's carried out. The results and original log of the hole are appended.

11.2 Results

Eight samples were collected from each of the two drill holes and analyzed for gold and whole rock determinations. One sample in SL-2 returned an anomalous value of 285 ppb but bracketing samples in the altered volcaniclastic rock returned values of <5 ppb. The rest of the samples from both holes returned values of 10 ppb or less. The whole rock data does not appear to indicate any obvious alteration trends. All of the units indicate a high silica content but there are no indications of any significant potassium enrichment or sodium depletion that could be compared to a Hemlo signature.

12.0 CONCLUSIONS AND RECOMMENDATIONS

The objective of the 1994 reconnaissance program was to evaluate the sulphide rich felsic volcaniclastic horizon at the sediment-volcanic contact. From past IP data there appears to be a response related to the horizon across the property for approximately 7.0 kilometres interrupted in the centre by 1.8 kilometres on the Greater Lenora claims.
The strongest and widest part of the horizon is along the western part of the grid. Immediately west of the Lenora ground where there is the best exposure it is greater than 100 meters wide. The strongest IP response would be at the west end of the property along the creek east of the Black River. There were a number of feldspar porphyry dykes noted along the horizon and north-east of the Leaner ground it is cut off by a feldspar porphyry plug. North-east of the plug to the property boundary exposure is not good and it should be prospected further.

Rock and soil sampling did not return any significant gold values. Whole rock data indicated a noticeable potassium enrichment and sodium depletion in the Phil Lake area to the north-east. This observation may be related to the proximity of the

feldspar porphyry plug. Although there were no significant gold numbers or alteration indicated along the volcaniclastic horizon and there were no obvious intrusive complex identified along the horizon, there was however large areas of overburden cover with strong IP responses that could not be stripped due to topography restraints. These areas, especially east of the Black River should be re-surveyed with an IP program. There is also a second felsic horizon suggested by the mapping and original IP survey that could be further evaluated. A straigraphic drill hole would be justified to test these features.

The area to the north-east (east of Phil Lake) should also be re-examined with a small prospecting program. This would farther test the felsic volcaniclastic horizon and to test the indication that alteration of the rocks is stronger in the area.

Respectfully submitted

John Londry
Senoir Geologist
Hemlo Gold Mines Inc.
Superior District

March 30,1995
Hemlo,Ontario

APPENDIX I

Assays, Whole Rock, Multi-Element Analyses and Sample Descriptions

N Nº ◯961

Norex Sample R◯ord Sheet

Project Name: 18961 Petrant LK Number: 50B District: Hemlo

Date: Sept 29/94 Sampler: M. Stares

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu		SiO²	Al²O³	Fe²O³	CaO	Na²O	TiO²	P²O⁵	BaO	LoI					Sample Description
A	✓	<5																	mafic tuff near I.F 3% py.
B	✓																		sheared felsics, 2% py
C	✓																		QTZ veining thru Diorite,
D	✓																		Rusty fracturing thru Diorite 2% py
E	✓																		Rusty patches in Diorite, 3% py
F	✓	↓																	QTZ veining Breccia Chlor. ½% py
G	✓	<5																	same as (F)
H	✓	10																	QTZ veining w/t 40 cm width thru sheared mafics.
I	✓	80																	QTZ veining thru mafics, 1% py
J	✓	<5																	Silic, Fe altered 1% py
K	✓																		altered seds 2% py
L	✓																		altered seds 2% py
M	✓																		altered seds 3 to 4% py
N	✓	↓																	altered seds 3 to 4% py
O	✓																		altered seds 2% py

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N № 18964

Norex Sample Record Sheet

Project Name: Petrant LK Number: 506 District: Kemess

Date: Oct 16 / 94 Sampler: M STARES

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu		SiO_2	Al_2O_3	Fe_2O_3	CaO	Na_2O	TiO_2	P_2O_5	BaO	Lol					Sample Description
A	✓																		lean I.F. Siliceous 2% po TR calco
B	✓																		I.F same as (A)
C	✓																		Porphy contact with I.F.
D	✓																		same as (C)
E	✓																		Thin Felsic unit on contact with mafic
F	✓																		Rusty 4% mag, 3% p
G	✓																		QTZ veining in I.F. same as (A, B)
H	✓													(Mussey Creek)					QTZ vein in granites, 3% py TRs
I																			
J																			
K																			
L																			
M																			
N																			
O																			

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Norex Sample R◯ord Sheet

N__№ ◯962
18962

Project Name: Petrant LK Number: 5◯6 District: Hemlo

Date: Sept 29/94 Sampler: M. Stowe

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu		SiO²	Al²O³	Fe²O³	CaO	Na²O	TiO²	P²O⁵	BaO	LoI					Sample Description
A	✓																		altered silicified sheared 4% py
B	✓																		altered hematized sed. TK. py
C	✓																		hematized boulder. from (B)
D	✓															(FLOAT)			sheared seds 1% moly along fracture planes
E	✓															(FLOAT)			QTZ vein boulder. 5 to 10% py po
F	✓																		QTZ veining up to 60 cm wide contact with rusty
G	✓																		altered white rock 5% py
H	✓																		silicified seds 3% py
I	✓																		QTZ veining in I.F. 3% py, po
J	✓																		silicified I.F. 3% py, po
K	✓																		silicified seds 5% diss. py
L	✓																		QTZ vein in altered seds. 3% py, po
M	✓																		altered leached, yellow in colour 3% py
N	✓																		sheared altered leached 2% py
O	✓																		rusty smoky QTZ from I.F. 3% py-po

N 18963

Norex Sample Record Sheet

Project Name: PetranTLK Number: 585 District: Hemlo

Date: Oct 6/94 Sampler: MS/SS

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu		SiO^2	Al^2O^3	Fe^2O^3	CaO	Na^2O	TiO^2	P^2O^5	BaO	Lol					Sample Description
A	✓																		Silicified Fract Reworked QTZ 5% py-po
B	✓																		chert zone, 1% stringers 2% py
C	✓																		QTZ veining 5% po py.
D	✓																		QTZ veining then I.F 5% po-py
E	✓																		I.F. 5% py.
F																			
G																			
H																			
I																			
J																			
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LAB ACCURASSAY

PROJECT NO. 529/506 PROPERTY FOWLER 1 / PETRANT N.T.S. 42C 13

CERT. NO. _____

GRID REFERENCE PETRANT LK DATE JULY 5/L

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS Au	ASSAYS Cu	ASSAYS Mo	CO-ORDINATES		SAMPLER
A	RUSTY QTZ BIOT SCHIST MIN. Py	GRAB			✓		1.5KM S OF PETR LK		JWL
B	Py FELSIC SER. TOUR. QFP (Mo?)	"			✓	✓	MUSHER LK Rd S. END		PJ
C	soil JIM LK below Cu-Zn SHOW	SOIL		✓	✓ ✓	✓			JWL
D	SILT STREAM W. END OF PHIL LK	SOIL		Au Ag	Cu Pb	Zn	PET.	[redacted]	JWL
PETRANT E	Fold DIOR. POR RUSTY NVM.	GRAB		✓	[redacted]	W	[redacted]		"
F	25cm QV RUSTY 1-2% Py (S OF PHIL LK)	"		✓	✓	[redacted]	[redacted]		"
G	FOL. Med gr. DIOR. INT.	"		✓		✓			PD
H	RUSTY SIL. Fgr. Fel. sed. (JENNY CR. W OF 614)	"		✓		✓			PD
I	WHT QTZ V. WITH MIN. Py + Mo "JOA"	"		✓		✓	ALONG BLK R. ON N. BOUNDARY OF JOA CLAIM		JWL
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
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V									
W									

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LAB CHEMEX

PROJECT NO. 506 PROPERTY PETRANT

N.T.S. 42C-L2

CERT. NO. _____

GRID REFERENCE _____

DATE SEPT. 10/92

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
				AuA		WR			
A	RUSTY SILIC SED	GRAB		✓			PETR1	0	JWL
B	RUSTY WELL FOL. SED. N VN	"		✓			"	0+25S	"
C	" " " " N VN	"		✓			"	0+50S	
D	" " " " N V N	"		✓			"	0+75S	
E	FELD PoR DIORITE	"		✓		✓	"	1+00S	
F	RUSTY Gtz BIOT. WELL FOL SED			✓		✓	46E	1+25S	
G	FEL. SIL DYKE			✓		✓	50E	1+50S	
H	RUSTY SIL SER SED			✓		✓	32E	1+75S	
I	fGR feld Por			✓		✓	36E	2+00S	
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

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Plotted

NORANDA EXPLORATION COMPANY, LIMITED

№ 1821

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LAB _____ PROJECT NO. 505 PROPERTY North Grid N.T.S. _____

CERT. NO. _____ GRID REFERENCE _____ DATE 21 June 89

Road = S.D.

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Felsite from wide gossan on line Rd.	Grab	150 M	Au					R + S
B		Grab	1.5 M	Au					R + S
C		Grab	1.5 M	Au					R + S
D				Au		Pat	580210	5405975	R + S
E		Grab		Au		"	579830	5405779	"
F	written up by KOB.	Grab		Au		"	579810	5405929	"
G		Grab		Au		"	579802	5405707	"
H		Grab		Au		Lenora	580740	5406445	"
I		Grab		Au		"	"	"	"
J	30 M wide band of mineralized felsite	Grab		Au		"	"	"	"
K		Grab		Au		"	580728	5406452	"
L		Grab		Au		"	580730	5406450	"
M		Grab		Au		"	580777	5406450	"
N	Felsite 2% py	Grab		Au		"	580770	5406484	"
O		Grab		Au		"	580738	5406465	"
P		Grab		Au		"	580800	5406503	"
Q	50 M wide felsite	Grab		Au		"	580808	5406433	"
R		Grab		Au		"	580789	5406	"
S		Grab		Au		"	580730	5406480	"
T		Grab		Au		"	580780	5406808	"
U		Grab		Au		"	580774	5406809	"
V		Grab		Au		"	580728	5406805	"
W		Grab		Au		"	580719	5406804	"

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N N 09965 09966

Norex Sample Record Sheet

Project Name: North Limb Number: 533 505 District: Hemlo

Date: Aug 7/94 Sampler: SS, MS

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu	Mo ppb	SiO_2	Al_2O_3	Fe_2O_3	CaO	Na_2O	TiO_2	P_2O_5	BaO	Lol					Sample Description
A		<5																	Sheared Porphry, 1meter w 2% Py, 10% Bio.
B			2328	1392															Sheared Porphy 2% py 1 meter wide.
C			4664	1.36%															Sub outcrop sheared Porp. 1% Py
D		<5																	Mngl Angular Float, Sheared Porphy 1% Py.
E		<5			1														Rusty sheared Porphy Some Sericite, 1-2% Py, contact wtl M.
F		<5																	Rusty Sericite Schist. 2% Fine Grain Py. Angular Fl
G		7																	SAME AS "F" Angular Fl
H																			SAME AS "F" Angular Fl
I		<5																	Sheared Vol, Silicified tr Py. Next to diabase
J		15																	QTZ Stringer's throughout Rusty Shear. 1% Py.
K		<5																	Grey Green Sil Rusty Vol Qz carb spots, 2-3% Py.
L		<5																	Sheared Sil Leached Rusty Vol, Trace Sericite. 2-3% Py.
M																			Dry Rusty Sheared Sericite Schist. with 2-3% Py
N																			Sheared Laminated Rusty Leached Rock 2-3% Py Trace Grey Qtz
O		<5																	Rusty Sil Rock Massive Qz stringers 2-5% dis Py + Barite ?

Petrond

A

Where?

White - Field Copy Yellow - Office Copy

N № 09965

Norex Sample Record Sheet

Project Name: North Limb Number: 505 District: Hemlo

Date: Aug 7/94 Sampler: SS, MS

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu		SiO_2	Al_2O_3	Fe_2O_3	CaO	Na_2O	TiO_2	P_2O_5	BaO	Lol			Field Number ↓		Sample Description
A			Petrond																Rusty sheared sed 1-2% py.
B			N. Limb														SS#1		Small shear Between Mafic and Porphy 20cm 1% py 10% cupy.
C				"													SS#2		Small shear Between Mafic and Porphy 5% py 20cm wide.
D				"													SS#3		Sheared mafic on ~~cont~~ contact with porphy Lensed 3-5% py 2m wide
E				"													SS#4		Sheared Mafic 2-3% py some sericite 2m wide
F				"													SS#5		Sheared Mafic Tr cpy. 2% py 1m wide.
G																			
H																			
I																			
J																			
K																			
L																			
M																			
N																			
O																			

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NORANDA EXPLORATION COMPANY, LIMITED

Nº 563

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Yellow - Field

LAB CHEMEX

PROJECT NO. 506 PROPERTY PETRANT

N.T.S. 42C 13

CERT. NO. _____

GRID REFERENCE _____

DATE SEPT 82

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS Au		WR	CO-ORDINATES		SAMPLER
A	Lge fol zed min Pg	GRAB		✓		✓	40E	112+10N	
B	Rusty fol zed. min Pg.	GRAB		✓		✓	40E	113+00	
C	Rusty sil fol. min Pg.	GRAB		✓		✓	42E	112+55	
D									
E									
F									
G									
H									
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

Norex Form: C:\forms\Samprep.frm

NORANDA EXPLORATION COMPANY, LIMITED

№ 551

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Yellow - Field

LAB CHEMEX

PROJECT NO. 505

PROPERTY NORTH LIMB

N.T.S. 42 C-13

CERT. NO.

GRID REFERENCE

DATE JUN. 9/8

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS WR	ASSAYS Au	ASSAYS	CO-ORDINATES		SAMPLER
A	Rusty gr. Biot schist	GRAB		✓	✓				JWF
B	Biot qtz Feld. schist	11		✓			100N	45+10E	
C	11 11 11 pnk alt. conglomerate	11		✓			[illegible]00N	47+15E	
D	felsic seric. feld. qtz schist with gr mica	11		✓	✓		96+50N	164+00E	
E	QUED QTZ-feld por minor py	11		✓			R along QUED ROAD		
F	VALLEY FELD PORPHYRY - SOUTH BOUNDARY	11		✓					
G	FLAMBEAU								
H	TUFF BAND	11		✓					
I	DACITE F.W.	11		✓					
J	FW SERICITE SCHIST 5% Py	11		✓					
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

Norex Form: C:\forms\Sample.fm

Nº 1419

NORANDA EXPLORATION COMPANY, LIMITED

te - Office
llow - Field

LAB. Accurassay / chemex PROJECT NO. 529 PROPERTY ~~Rock #1~~ PetRAND N.T.S. 42C/13

CERT. NO. _____ GRID REFERENCE _____ DATE May/94

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS Au	ASSAYS WR	ASSAYS	CO-ORDINATES		SAMPLER
A	Silicified Felsic vol 1-2%py	grab	—	✓ 6			Phil Lk	GCI#10021	BM
B	Rusty sed 1-2% py	"	—	✓ 6				"	
C	Rusty mafic-int vol 1-2%py	"	—	✓ <5				"	
D	Rusty Felsic-int vol 1-2% dis py	"	—	✓ 6				"	
E	mafic vol minor Rust	"	—	✓ <5				"	
F	wacke? Rusty 1-2%py	"	—	✓ <5				"	
G	Porphyry Feldspar phens up to 3mm in size	"	—		✓			"	
H	Rusty Felsic-int vol 1-2% py	"	—	✓ 5/6				"	
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

№ 1822

White - Office
Yellow - Field

NORANDA EXPLORATION COMPANY, LIMITED

LAB Accurassay PROJECT NO. 505 PROPERTY N.T.S.

CERT. NO. GRID REFERENCE Potrand / Lenora DATE 25 June 9?

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	felsite 5% py taken by Rob	Grab	—	Au			580714	5406603	R+ST
B	felsite 2% fine py.	Grab	—	Au			580650	5406700	R[illegible]
C	" "	Grab	—	Au			580846	5406657	[illegible]
D	felsite in [illegible] wall minor py sericite	Grab	—	Au			580911	5406667	[illegible]
E	" "	Grab	—	Au			581138	5406840	[illegible]
F	" 2-3% py pyrr Rob	Grab	—	Au			580939	5406816	"
G	Taken by Rob in same area	Grab	—	Au			580600	5406550	"
H	Taken by Rob in same area	Grab	—	Au			580597	5406555	"
I	felsite 3% pyrite	Grab	—	Au			580998	5406423	" "
J	" "	Grab	—	Au			580994	5394228	" "
K	" "	Grab	—	Au			580990	5394258	" "
L	" "	Grab	—	Au			580995	5406483	" "
M	felsite 3% pyrite	Grab	—	Au			581025	5406736	" "
N	" "	Grab	—	Au			581039	5407149	" "
O	" "	Grab	—	Au			[illegible]	[illegible]	" "
P	acid fragmental	Grab	—	Au			581571	5407123	" "
Q	[illegible] CPI [illegible] element	Grab	[illegible]	Au			[illegible]	[illegible]	[illegible]
R	[illegible]	Grab	[illegible]	Au			[illegible]	[illegible]	[illegible]
S	felsite 3% py [illegible]	Grab	[illegible]	Au			[illegible]	[illegible]	[illegible]
T	felsite 20% py [illegible] green mica	Grab	[illegible]	Au			[illegible]	[illegible]	[illegible]
U	felsite [illegible]	Grab	[illegible]	Au			[illegible]	[illegible]	[illegible]
V	[illegible] garnet magnetite	Grab	[illegible]	Au			579504	[illegible]	[illegible]
W	sediment [illegible]	Grab	[illegible]	Au			579452	5405[illegible]	[illegible]

Noranda Form: C:\forms\Sampres.fmt

Nº 1421

NORANDA EXPLORATION COMPANY, LIMITED

Accurassay / chemex

PROJECT NO. 533 PROPERTY Valley N.T.S.

CERT. NO. GRID REFERENCE DATE June 94

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS Au	ASSAYS wR		CO-ORDINATES		SAMPLER
A	Felsic vol 3-5%py rusty green mica	grab		✓	✓				BM
B	"	"		✓	✓				"
C	Felsic vol tr py	"		✓	✓				"
D	Rusty graphitic boulder 1-2% py	"		✓ <5	✓				"
E	silicified sed? 2-3%py rusty	"		✓ <5	✓				"
F	weakly sheared sed wallrock for "E"	"		✓ 8					"
G	rusty volcanic 3-5% py Large boulder	"		✓ <5					"
H	rusty conglomerate 1-2%py	"		✓<5/<5					"
I	porphyry? tuff?	"		✓	✓				D.L
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									

Norax Form: C:\forms\Samprep.frm

E 02

ACCURASSAY LABORATORIES
· A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

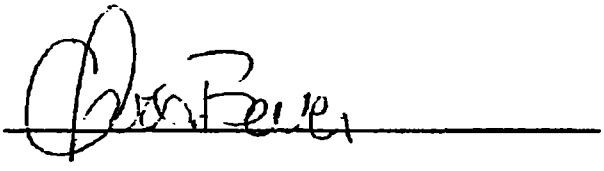
NORANDA EXPLORATION CO., LTD.
960 Alloy Drive
Thunder Bay, Ontario
P7B 6A1

October 19, 1994

Job #9441220

Project # 506

Sample # Accurassay	Customer	Gold ppb	Gold Oz/t
1	18964-A	5	<0.001
2	18964-B	5	<0.001
3	18964-C	<5	<0.001
4	18964-D	<5	<0.001
5	18964-E	<5	<0.001
6	18964-F	7	<0.001
7	18964-G	<5	<0.001
8 Check	18964-G	<5	<0.001

Certified By: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 533
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number :1
Total Pages :1
Certificate Date: 08-NOV-94
Invoice No. :19429470
P.O. Number :
Account :FIL

CERTIFICATE OF ANALYSIS A9429470

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
18966 C	299	200	16.76	2.63	0.02	5.53	1.73	2.67	0.06	3.25	0.13	65.46	0.76	1.97	100.95	330	50	310	< 10	120	10
18966 D	299	200	15.44	1.94	< 0.01	2.86	1.51	1.47	0.06	6.55	0.07	68.00	0.36	1.13	99.39	560	30	340	< 10	90	< 10
18966 E	299	200	14.92	2.21	< 0.01	3.18	1.63	0.71	0.04	4.46	0.09	70.40	0.44	1.89	99.97	290	40	290	< 10	100	< 10
18966 F	299	200	15.49	3.38	< 0.01	3.97	1.45	1.69	0.04	4.52	0.09	67.71	0.51	1.72	100.55	450	45	440	< 10	100	< 10
18966 G	299	200	16.30	1.70	< 0.01	2.28	1.79	0.60	0.03	5.60	0.09	70.90	0.39	1.36	101.05	400	55	280	< 10	100	< 10
18966 H	299	200	17.02	2.74	< 0.01	3.10	1.58	1.12	0.04	4.71	0.15	67.54	0.46	1.39	99.85	310	50	370	< 10	120	< 10
18966 I	299	200	15.61	2.61	0.01	3.30	1.94	1.20	0.03	5.39	0.10	68.71	0.40	1.25	100.55	470	50	350	< 10	100	< 10
18966 J	299	200	15.38	1.85	0.02	4.47	2.11	2.08	0.05	4.41	0.15	66.04	0.43	2.99	99.98	350	70	280	< 10	120	< 10

This is project 506
summers Lk DDH
Pethind

CERTIFICATION: Bart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 533
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number :1
Total Pages :1
Certificate Date: 28-OCT-94
Invoice No. :19429469
P.O. Number :
Account :FIL

CERTIFICATE OF ANALYSIS A9429469

SAMPLE	PREP CODE		Au ppb FA+AA
18966 A	205	226	< 5
18966 B	205	226	< 5
18966 C	205	226	< 5
18966 D	205	226	< 5
18966 E	205	226	< 5
18966 F	205	226	< 5
18966 G	205	226	10
18966 H	205	226	< 5
18966 I	205	226	< 5
18966 J	205	226	< 5

Petronil

CERTIFICATION: Luciana Alexandre

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #6
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number 1
Total Pages 1
Certificate Date 31-OCT-94
Invoice No. I-9428117
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9428117

SAMPLE DESCRIPTION	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
SL2-810	299	200	15.22	3.91	0.03	4.25	1.23	1.96	0.08	5.19	0.10	66.20	0.40	1.98	100.55	370	40	320	< 10	70	< 10
SL2-870	299	200	15.18	3.04	0.06	4.54	1.54	1.38	0.08	4.15	0.13	68.20	0.52	1.66	100.50	370	50	290	< 10	90	10
SL2-920	299	200	14.92	2.94	0.07	4.91	1.40	1.54	0.07	4.03	0.14	67.20	0.55	2.13	99.90	340	40	270	< 10	80	10
SL2-950	299	200	14.76	2.60	0.04	4.50	1.54	1.19	0.06	4.17	0.15	68.60	0.49	1.68	99.78	360	40	240	< 10	90	< 10
SL2-1015	299	200	16.05	2.28	< 0.01	3.52	1.78	0.83	0.05	4.91	0.09	68.70	0.47	1.88	100.55	380	55	260	< 10	90	< 10
SL2-1085	299	200	16.58	1.06	< 0.01	2.90	1.82	0.98	0.03	4.92	0.08	69.50	0.43	2.02	100.30	330	60	260	< 10	90	< 10
~~19052-A~~	~~299~~	~~200~~	~~15.58~~	~~1.38~~	~~< 0.01~~	~~18.60~~	~~1.02~~	~~7.54~~	~~0.19~~	~~1.99~~	~~0.10~~	~~42.40~~	~~1.23~~	~~7.94~~	~~97.97~~	~~170~~	~~30~~	~~40~~	~~< 10~~	~~50~~	~~20~~

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number 1
Total Pages 1
Certificate Date 17-OCT-94
Invoice No. I-9428116
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9428116

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	Au FA g/t
SL2-810	205 226	285	-----	-----
SL2-870	205 226	< 5	-----	-----
SL2-920	205 226	5	-----	-----
SL2-950	205 226	< 5	-----	-----
SL2-1015	205 226	< 5	-----	-----
SL2-1085	205 226	< 5	-----	-----
19052-A	205 226	>10000	2.0	16.18

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

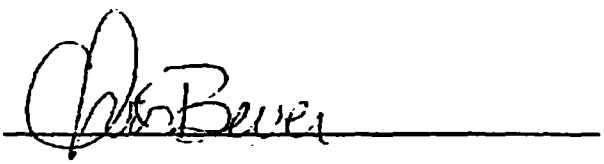
NORANDA EXPLORATION CO., LTD.
960 Alloy Drive
Thunder Bay, Ontario
P7B 6A1

October 19, 1994

Job #9441221

Project # 533

Sample # Accurassay	Customer	Gold ppb	Gold Oz/t
1	18964-H	6	<0.001
2 Check	18964-H	7	<0.001

Certified By: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 533
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number 1
Total Pages 1
Certificate Date 17-OCT-94
Invoice No. I-9428539
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9428539

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
18959 E	205 226	< 5
18959 F	205 226	< 5
18959 G	205 226	< 5
18959 H	205 226	< 5
18959 I	205 226	< 5
18959 J	205 226	< 5
18959 K	205 226	< 5
18959 L	205 226	< 5
18959 M	205 226	< 5
18959 N	205 226	< 5
18960 A	205 226	< 5
18960 B	205 226	< 5
18960 C	205 226	< 5
18960 D	205 226	< 5
18960 E	205 226	< 5
18960 F	205 226	< 5
18961 A	205 226	< 5
18961 B	205 226	< 5
18961 C	205 226	< 5
18961 D	205 226	< 5
18961 E	205 226	< 5
18961 F	205 226	< 5
18961 G	205 226	< 5
18961 H	205 226	10
18961 I	205 226	80
18961 J	205 226	< 5
18961 K	205 226	< 5
18961 L	205 226	< 5
18961 M	205 226	< 5
18961 N	205 226	< 5
18961 O	205 226	< 5
18962 A	205 226	< 5

Dunc Lk

Dunc Lk

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

NORANDA EXPLORATION CO., LTD.
Bag Service #8
Marathon, Ontario
P0T 2T0

October 11, 1994

Job #9441162

Project # 533

Sample # Accurassay		Customer	Gold ppb	Gold Oz/t
1		18962-B	<5	<0.001
2		18962-C	20	<0.001
3		18962-D	<5	<0.001
4		18962-E	28	<0.001
5		18962-F	<5	<0.001
6		18962-G	<5	<0.001
7		18962-H	<5	<0.001
8		18962-I	<5	<0.001
9		18962-J	<5	<0.001
10		18962-K	<5	<0.001
11	Check	18962-K	<5	<0.001
12		18962-L	6	<0.001
13		18962-M	8	<0.001
14		18962-N	7	<0.001
15		18962-O	<5	<0.001
16		18963-A	<5	<0.001
17		18963-B	13	<0.001
18		18963-C	<5	<0.001
19		18963-D	<5	<0.001
20		18963-E	10	<0.001
21	Check	18963-E	12	<0.001

Certified By: Don Beer.

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number 1-A
Total Pages 1
Certificate Date 12-OCT-94
Invoice No. I-9426795
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9426795

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %
561 E	208	226	< 5	12.81	4.42	0.05	5.88	2.40	3.79	0.10	3.61	0.23
561 F	208	226	< 5	17.07	1.93	0.05	6.78	2.99	2.62	0.09	2.98	0.22
561 G	208	226	< 5	16.24	2.89	0.02	2.58	3.10	1.07	0.03	5.56	0.24
561 H	208	226	< 5	16.85	2.50	0.01	2.72	1.25	1.01	0.05	4.54	0.14
561 I	208	226	60	15.97	2.56	0.03	4.75	3.11	2.49	0.09	4.22	0.24

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Certificate Date 12-OCT-94
Invoice No. I-9426795
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9426795

SAMPLE DESCRIPTION	PREP CODE	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
561 E	208 226	65.80	0.53	0.98	100.60	490	65	400	< 10	90	< 10
561 F	208 226	62.90	0.78	1.72	100.15	440	55	230	< 10	100	10
561 G	208 226	67.30	0.39	1.16	100.60	1030	40	680	< 10	80	< 10
561 H	208 226	68.40	0.40	1.75	99.62	290	30	300	< 10	70	< 10
561 I	208 226	64.20	0.58	1.83	100.05	640	70	510	< 10	80	10

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Certificate Date: 24-JUL-94
Invoice No. : I9420630
P.O. Number :
Account : FIL

CERTIFICATE OF ANALYSIS A9420630

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R
556 C	201 238	< 5	205	33	460	< 0.2
556 D	201 238	< 5	11	< 1	40	< 0.2

CERTIFICATION: Adriana Alexandru

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number :1
Total Pages :1
Certificate Date: 27-JUL-94
Invoice No. :I9420629
P.O. Number :
Account :FIL

CERTIFICATE OF ANALYSIS A9420629

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
556 E	299	200	16.19	5.25	< 0.01	5.64	2.27	3.02	0.10	4.42	0.20	60.89	0.45	1.03	99.47	600	55	690	< 10	80	10
556 F	299	200	2.83	0.51	< 0.01	2.10	0.40	0.50	0.01	1.04	0.15	90.90	0.09	0.61	99.15	120	15	80	< 10	10	< 10
556 G	299	200	15.50	5.95	< 0.01	5.92	1.03	4.26	0.09	5.85	0.21	58.50	0.54	1.35	99.21	550	30	650	< 10	80	< 10
556 H	299	200	13.82	2.22	< 0.01	4.73	2.11	2.28	0.06	3.66	0.15	69.20	0.49	1.84	100.55	370	40	400	< 10	90	10

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Certificate Date: 26-JUL-94
Invoice No. : I9420628
P.O. Number :
Account : FIL

CERTIFICATE OF ANALYSIS A9420628

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm	Mo ppm
556 A	205 226	< 5	-----	-----
556 B	205 226	< 5	35	4
556 E	205 226	< 5	-----	-----
556 F	205 226	< 5	34	-----
556 G	205 226	< 5	-----	-----
556 H	205 226	< 5	-----	-----
556 I	205 226	210	-----	890

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Page Number 1
Total Pages 1
Certificate Date 26-JUL-94
Invoice No. I-9420628
P.O. Number :
Account :

Project : 506
Comments: ATTN. JOHN LONDRY CC: JOHN SULLIVAN

CERTIFICATE OF ANALYSIS A9420628

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Mo ppm
556 A	205 226	< 5	-----	-----
556 B	205 226	< 5	35	4
556 E	205 226	< 5	-----	-----
556 F	205 226	< 5	34	-----
556 G	205 226	< 5	-----	-----
556 H	205 226	< 5	-----	-----
JCA → 556 I	205 226	210	-----	890

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO

PETROLEX

Project: 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number: 1
Total Pages: 1
Certificate Date: 24-JUL-94
Invoice No.: I-9420630
P.O. Number:
Account:

CERTIFICATE OF ANALYSIS A9420630

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA-AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R
556 C	201 238	< 5	205	33	460	< 0.2
556 D	201 238	< 5	11	< 1	40	< 0.2

SOIL
SILT
PETRAM

PET.

CERTIFICATION

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

NORANDA EXPLORATION CO., LTD.
Bag Service #8
Marathon, Ontario
P0T 2E0

July 14, 1994

Job #944663

Project # 505

Accurassay	Sample # Customer	Gold ppb	Gold Oz/t
1	1822-I	12	<0.001
2	1822-J	<5	<0.001
3	1822-K	<5	<0.001
4	1822-L	7	<0.001
5	1822-M	<5	<0.001
6	1822-N	<5	<0.001
7	1822-O	<5	<0.001
8	1822-P	<5	<0.001
9	1822-Q	<5	<0.001
10	1822-R	<5	<0.001
11 Check	1822-R	<5	<0.001
12	1822-S	<5	<0.001
13	1822-T	<5	<0.001
14	1822-U	20	<0.001
15	1822-V	<5	<0.001
16	1822-W	<5	<0.001
17	1823-A	<5	<0.001
18	1823-B	<5	<0.001

Petrand/Lenora

Certified By: [signature]

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

NORANDA EXPLORATION CO., LTD.
Bag Service #8
Marathon, Ontario
P0T 2E0

June 29, 1994

Job #944608

Project # 505

Sample # Accurassay		Customer	Gold ppb	Gold Oz/t
1		1821-D	7	<0.001
2		1821-E	6	<0.001
3		1821-F	<5	<0.001
4		1821-G	7	<0.001
5		1821-H	<5	<0.001
6		1821-I	<5	<0.001
7		1821-J	<5	<0.001
8		1821-K	<5	<0.001
9		1821-L	8	<0.001
10		1821-M	<5	<0.001
11	Check	1821-M	6	<0.001
12		1821-N	<5	<0.001
13		1821-O	7	<0.001
14		1821-P	6	<0.001
15		1821-Q	6	<0.001
16		1821-R	7	<0.001
17		1821-S	6	<0.001
18		1821-T	6	<0.001
19		1821-U	6	<0.001
20		1821-V	5	<0.001
21	Check	1821-V	7	<0.001
22		1821-W	6	<0.001
23		1822-A	16	<0.001
24		1822-B	7	<0.001
25		1822-C	7	<0.001
26		1822-D	8	<0.001
27		1822-E	6	<0.001
28		1822-F	10	<0.001
29		1822-G	10	<0.001
30		1822-H	5	<0.001
31	Check	1822-H	7	<0.001

Certified By: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 533
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number 1-A
Total Pages 1
Certificate Date 22-JUN-94
Invoice No. I-9417770
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9417770

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %
1419 G	205 226	-----	15.94	4.80	0.01	5.37	1.97	2.63	0.10	4.53	0.14
1421 A	205 226	< 5	13.80	1.38	0.02	3.12	1.91	0.59	0.02	3.44	0.09
1421 B	205 226	< 5	13.29	1.42	0.02	3.13	1.65	0.52	0.02	3.60	0.10
1421 C	205 226	< 5	14.67	3.20	0.04	3.57	1.10	0.77	0.06	4.69	0.09

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 533
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number :1-B
Total Pages :1
Certificate Date: 22-JUN-94
Invoice No. :I9417770
P.O. Number :
Account :FIL

CERTIFICATE OF ANALYSIS A9417770

SAMPLE	PREP CODE	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
1419 G	205 226	62.98	0.46	1.18	100.10	630	55	710	< 10	70	< 10
1421 A	205 226	74.00	0.41	1.95	100.75	300	45	210	< 10	80	< 10
1421 B	205 226	75.00	0.40	1.96	101.10	280	45	210	< 10	80	< 10
1421 C	205 226	71.00	0.40	1.24	100.85	240	40	240	< 10	70	< 10

CERTIFICATION: Kurt Bichler

13:45 ACCURASSAY LABS LTD. →

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, U
THUNDER BAY, ONTARIO P7B
PHONE (807) 623-64
FAX (807) 623-682

NORANDA EXPLORATION CO., LTD.
Bag Service #8
Marathon, Ontario
P0T 2E0

June 14, 1994

Job #944538

Project # 533

Sample # Accurassay	Sample # Customer	Gold ppb	Gold Oz/t
1	1421-D	<5	<0.001
2	1421-E	<5	<0.001
3	1421-F	8	<0.001
4	1421-G	<5	<0.001
5	1421-H	<5	<0.001
6 Check	1421-H	<5	<0.001

№ 1421

Certified By: [signature]

White - Office
Yellow - Field

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

NORANDA EXPLORATION CO., LTD.
Bag Service #8
Marathon, Ontario
P0T 2E0

June 1, 1994

Job #944447

Project # 529

Sample # Accurassay	Customer	Gold ppb	Gold Oz/t
1	1419 A	6	<0.001
2	1419 B	6	<0.001
3	1419 C	<5	<0.001
4	1419 D	6	<0.001
5	1419 E	<5	<0.001
6	1419 F	<5	<0.001
7	1419 H	5	<0.001
8 Check	1419 H	6	<0.001

Certified By: Don Beer.

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

NORANDA EXPLORATION CO., LTD.
Bag Service #8
Marathon, Ontario
P0T 2E0

August 15, 1994

Job #944825

Project #505
P.O. # 84612

Sample # Accurassay		Customer		Gold ppb	Gold Oz/t
1		9966-A	Petrand	5	<0.001
2		9966-B		26	<0.001
3		9966-C		54	0.002
4		9966-D	M. Limb	66	0.002
5		9966-E		13	<0.001
6		9966-F		20	<0.001
7		9965-A		<5	<0.001
8		9965-D		<5	<0.001
9		9965-E		<5	<0.001
10		9965-F	Petrand	<5	<0.001
11	Check	9965-F		<5	<0.001
12		9965-G		7	<0.001
13		9965-R		7	<0.001

where?

Certified By: Chris Beech

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984 0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506 ?
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number 1-A
Total Pages 1
Certificate Date 17-NOV-94
Invoice No. I-9430089
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9430089

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %
563 A	208 226	15	15.98	4.13	< 0.01	4.96	2.15	2.45	0.07	3.81	0.08
563 B	208 226	< 5	14.89	2.94	0.02	5.01	1.00	2.50	0.08	4.15	0.11
563 C	208 226	< 5	16.17	2.04	< 0.01	2.32	0.89	1.18	0.04	6.59	0.03
5391 D	208 226	< 5	16.99	2.87	< 0.01	3.55	1.52	1.96	0.04	5.61	0.15
5391 E	208 226	55	15.97	2.45	< 0.01	5.79	1.07	1.76	0.06	6.68	0.09
5391 G	208 226	< 5	16.55	3.93	< 0.01	5.31	1.44	2.36	0.06	5.90	0.11

W. Richards

Ryan Twp

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number : 1-B
Total Pages : 1
Certificate Date: 17-NOV-94
Invoice No. : I-9430089
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9430089

SAMPLE DESCRIPTION	PREP CODE		SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
563 A	208	226	64.50	0.48	2.26	100.85	580	65	520	< 10	80	< 10
563 B	208	226	66.40	0.64	2.14	99.88	250	35	330	< 10	90	10
563 C	208	226	69.30	0.31	0.99	99.86	250	35	230	< 10	70	< 10
5391 D	208	226	65.00	0.64	1.40	99.73	340	65	260	10	160	10
5391 E	208	226	64.88	0.60	0.71	100.05	220	55	190	< 10	160	10
5391 G	208	226	62.60	0.69	1.18	100.15	260	60	280	< 10	90	10

Petrand

W. Richards
Ryan Twp

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 505
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number : 1-A
Total Pages : 1
Certificate Date: 23-AUG-94
Invoice No. : I9422736
P.O. Number : TB84613
Account : FIL

CERTIFICATE OF ANALYSIS A9422736

SAMPLE	PREP CODE		Au oz/T FA+AA	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %
9965 B	208	226	<0.0005	17.18	4.80	< 0.01	3.61	1.64	0.83	0.22	3.43	0.20
9965 C	208	226	<0.0005	17.03	2.13	< 0.01	2.25	2.71	0.95	0.02	3.90	0.15
9965 H	208	226	<0.0005	16.03	0.21	< 0.01	3.48	1.37	0.76	0.02	1.84	0.11

CERTIFICATION: Stan Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 505
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number :1-B
Total Pages :1
Certificate Date: 23-AUG-94
Invoice No. :I9422736
P.O. Number :TB84613
Account :FIL

CERTIFICATE OF ANALYSIS A9422736

SAMPLE	PREP CODE	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
9965 B	208 226	65.75	0.69	1.40	99.75	410	65	410	< 10	110	10
9965 C	208 226	70.20	0.30	1.19	100.85	640	45	440	< 10	90	< 10
9965 H	208 226	73.10	0.27	2.67	99.86	90	30	210	< 10	90	< 10

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #6
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page Number 1-A
Total Pages 1
Certificate Date 12-OCT-94
Invoice No. I-9426795
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9426795

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %
561 E	208	226	< 5	12.81	4.42	0.05	5.88	2.40	3.79	0.10	3.61	0.23
561 F	208	226	< 5	17.07	1.93	0.05	6.78	2.99	2.62	0.09	2.98	0.22
561 G	208	226	< 5	16.24	2.89	0.02	2.58	3.10	1.07	0.03	5.56	0.24
561 H	208	226	< 5	16.85	2.50	0.01	2.72	1.25	1.01	0.05	4.54	0.14
561 I	208	226	60	15.97	2.56	0.03	4.75	3.11	2.49	0.09	4.22	0.24

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 506
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Certificate Date 12-OCT-94
Invoice No. I-9426795
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9426795

SAMPLE DESCRIPTION	PREP CODE	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
561 E	208 226	65.80	0.53	0.98	100.60	490	65	400	< 10	90	< 10
561 F	208 226	62.90	0.78	1.72	100.15	440	55	230	< 10	100	10
561 G	208 226	67.30	0.39	1.16	100.60	1030	40	680	< 10	80	< 10
561 H	208 226	68.40	0.40	1.75	99.62	290	30	300	< 10	70	< 10
561 I	208 226	64.20	0.58	1.83	100.05	640	70	510	< 10	80	10

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 505
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Certificate Date: 29-JUN-94
Invoice No. :I9418034
P.O. Number :
Account :FIL

CERTIFICATE OF ANALYSIS A9418034

SAMPLE	PREP CODE		Au ppb FA+AA	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %
551 A	205	226	< 5	14.78	2.39	0.05	3.68	1.60	1.52	0.07	4.11	0.14
551 B	205	226	-----	14.97	7.57	0.01	6.99	2.66	4.11	0.14	4.08	0.51
551 C	205	226	-----	15.80	6.85	0.04	7.09	2.34	3.97	0.13	5.39	0.54
551 D	205	226	< 5	13.86	0.94	0.07	1.98	2.56	0.43	< 0.01	3.15	0.11
551 E	205	226	-----	15.08	1.79	< 0.01	1.93	0.96	0.77	0.02	6.11	0.09
551 F	205	226	-----	16.58	2.49	< 0.01	2.26	1.52	0.80	0.03	5.61	0.15
551 H	205	226	-----	9.10	0.12	< 0.01	0.65	0.03	0.10	< 0.01	0.09	0.58
551 I	205	226	-----	19.10	0.02	< 0.01	0.24	0.01	0.08	< 0.01	0.02	0.11
551 J	205	226	-----	8.16	0.13	0.03	24.00	0.01	0.11	< 0.01	0.02	0.30

CERTIFICATION: David Buckley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

NORANDA EXPLORATION CO., LTD.

BAG SERVICE #8
MARATHON, ONTARIO
P0T 2E0

Project : 505
Comments: ATTN: JOHN LONDRY CC: JOHN SULLIVAN

Page N. :1-B
Total Pages :1
Certificate Date: 29-JUN-94
Invoice No. : I9418034
P.O. Number :
Account : FIL

CERTIFICATE OF ANALYSIS A9418034

SAMPLE	PREP CODE	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
551 A	205 226	70.00	0.51	1.67	100.50	280	35	250	< 10	90	< 10
551 B	205 226	58.03	0.73	1.06	100.85	1320	40	1520	< 10	160	20
551 C	205 226	57.45	0.66	1.01	101.25	730	30	870	< 10	170	20
551 D	205 226	75.00	0.25	1.91	100.25	400	40	360	< 10	80	< 10
551 E	205 226	72.30	0.24	1.06	100.35	280	15	390	< 10	70	< 10
551 F	205 226	70.10	0.39	0.86	100.80	780	30	970	< 10	110	< 10
551 H	205 226	84.20	0.19	3.94	99.02	150	< 5	3120	< 10	140	10
551 I	205 226	73.50	0.18	6.51	99.79	50	< 5	640	< 10	80	< 10
551 J	205 226	45.58	0.18	14.34	92.87	40	< 5	510	< 10	40	< 10

CERTIFICATION: David Bradley

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

NORANDA EXPLORATION CO., LTD.
Bag Service #8
Marathon, Ontario
POT 2E0

August 9, 1994

Job #944663

Project # 505

Sample #	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	La ppm	Mg %
1822-Q	0.1	0.45	7	17	<1	<3	0.18	<1	21	394	20	3.01	4	0.23

Sample #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Si %	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
1822-Q	175	2	0.02	27	209	2	<2	0.01	3	0.06	20	<2	116

Certified By: D. K. Beaver.

N № 1966

Norex Sample Record Sheet

Project Name: SL-2 Number: 533 District: Hemlo

Date: Oct 21/94 Sampler: M. Stone

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu		SiO^2	Al^2O^3	Fe^2O^3	CaO	Na^2O	TiO^2	P^2O^5	BaO	Lol					Sample Description
A	✓														~~SL-2~~ ~~[illegible]~~ 10				SL-2 805m to 810m
B	✓																		SL2 815m ± 820m
C	✓				WR														PN4-1 25.0 - 26.0
D	✓				WR														PN4-2 50.0 - 51.0
E	✓				✓														PN4-3 100.0 - 101.0
F	✓				✓														PN4-4 125.0 - 126.0
G	✓				✓														PN4-5 155.0 - 156.0
H	✓				✓														PN4-6 165.0 - 166.0
I	✓				✓														PN4-7 171.0 - 172.0
J	✓				✓														PN4-8 185.0 - 186.0
K	~~✓~~																		
L																			
M																			
N																			
O																			

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APPENDIX II

Soil Geochemistry Results

NORANDA EXPLORATION CO. LTD.
P.O. BOX 30 BATHURST, N. B.
E2A 3Z1

GCI NO.	34542	NTS NO.	42 C/13
PROJECT NO.	503 06 33	LOCATION	PETBANT OPTION
ANALYST	GM BG	COLLECTOR	JWL
MATERIAL	SOILS	STORAGE BOX	
NUMBER OF SAMPLES	7	DATE RECEIVED	09/15/94
DATE COMPLETED	09/22/94	DATE ENTERED	09/22/94
REMARKS	JOHN LONDRY PETRANT.		

# / LOCATION	AU PPB	Undef:	Undef:	Undef:	Undef:	Undef:	Undef:	Undef:	Unde:
A	5:	0:	0:	0:	0:	0:	0:	0:	
B	5:	0:	0:	0:	0:	0:	0:	0:	
C	5:	0:	0:	0:	0:	0:	0:	0:	
D	5:	0:	0:	0:	0:	0:	0:	0:	
E	5:	0:	0:	0:	0:	0:	0:	0:	
32E-11590	5:	0:	0:	0:	0:	0:	0:	0:	
36E-11440	5:	0:	0:	0:	0:	0:	0:	0:	

Sheet Number: N 5389

Norex Sample Record Sheet

Project Name: 506 PETRANT Number: 11 District: NWO

Date: OCT 12/94 Sampler: JMY

SOILS - ALONG TRENCH 42E & 52E

Sample #	Au O.P.T.	Au P.P.B.	Zn	Cu		SiO_2	Al_2O_3	Fe_2O_3	CaO	Na_2O	TiO_2	P_2O_5	BaO	Lol					Sample Description
A	✓																		42E/110+00N
B	✓																		/110+25
C	✓																		/110+50N
D	✓																		/110+75N
E	✓																		/111+00N
F	✓																		/111+25N
G	✓																		/111+50N
H	✓																		42E/111+75N
I	✓																		52E/109+75N (BASE)
J	✓																		/109+70N
K	✓																		/109+62
L																			
M																			
N																			
O																			

White - Field Copy Yellow - Office Copy

GEOCHEMICAL SURVEY

Project Name : MARATHON Project Number: 506
Grid Name : MARATHON

Date: 11/17/94 Operator: EM NTS: 42 C/3
Baseline: 0.0N Baseline Azimuth: 90 Degrees
Number of Lines: 2 Data File: C11508.ZAT

Line: 5400.0E Azimuth: 0 Deg. Number of Stations: 13

STATION	Au PPB	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef
10700.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10725.0N	50	nil	nil	nil	nil	nil	nil	nil	nil
10750.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10775.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10800.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10825.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10850.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10875.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10900.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10925.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10950.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10975.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11000.0N	5	nil	nil	nil	nil	nil	nil	nil	nil

GEOCHEMICAL SURVEY

Project Name : MARATHON Project Number: 506
Grid Name : MARATHON

Date: 11/17/94 Operator: RM NTS: 42 C/3
Baseline: 0.0N Baseline Azimuth: 90 Degrees
Number of Lines: 5 Data File: C11507.ZAT

Line: 4600.0E Azimuth: 0 Deg. Number of Stations: 12 Page 1 of 1

STATION	Au PPB	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef
10700.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10725.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10750.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10775.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10800.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10825.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10875.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10900.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10925.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10950.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10975.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11000.0N	5	nil	nil	nil	nil	nil	nil	nil	nil

GEOCHEMICAL SURVEY

Project Name : MARATHON Project Number: 506
Grid Name : MARATHON

Date: 11/17/94 Operator: EM NTS: 42 C/3
Baseline: 0.0N Baseline Azimuth: 90 Degrees
Number of Lines: 5 Data File: C11507.ZAT

Line: 3600.0E Azimuth: 0 Deg. Number of Stations: 21

STATION	Au PPB	undef	undef	undef	undef	undef	undef	undef	undef
11000.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11025.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11050.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11075.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11100.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11125.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11150.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11175.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11200.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11225.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11250.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11275.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11300.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11325.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11350.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11375.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11400.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11425.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11450.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11475.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11500.0N	5	nil	nil	nil	nil	nil	nil	nil	nil

GEOCHEMICAL SURVEY

Project Name : MARATHON Project Number: 506
Grid Name : MARATHON

Date: 11/17/94 Operator: EM NTS: 42 C/3
Baseline: 0.0N Baseline Azimuth: 90 Degrees
Number of Lines: 5 Data File: C11507.ZAT

Line: 4200.0E Azimuth: 0 Deg. Number of Stations: 13 Page 1 of 1

STATION	Au PPB	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef
11000.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11025.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11050.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11075.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11100.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11125.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11150.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11175.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11200.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11225.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11250.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11275.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11300.0N	5	nil	nil	nil	nil	nil	nil	nil	nil

GEOCHEMICAL SURVEY

Project Name : MARATHON Project Number: 506
Grid Name : MARATHON

Date: 11/17/94 Operator: EM NTS: 42 C/3
Baseline: 0.0N Baseline Azimuth: 90 Degrees
Number of Lines: 5 Data File: C11507.ZAT

Line: 4000.0E Azimuth: 0 Deg. Number of Stations: 13

STATION	Au PPB	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef
11000.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11025.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11050.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11075.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11100.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11125.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11150.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11175.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11200.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11225.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11250.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11275.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11300.0N	5	nil	nil	nil	nil	nil	nil	nil	nil

GEOCHEMICAL SURVEY

Project Name : MARATHON Project Number: 506
Grid Name : MARATHON

Date: 11/17/94 Operator: EM NTS: 42 C/3
Baseline: 0.0N Baseline Azimuth: 90 Degrees
Number of Lines: 5 Data File: C11507.ZAT

Line: 3200.0E Azimuth: 0 Deg. Number of Stations: 17 Page 1 of 1

STATION	Au PPB	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef
11000.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11025.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11050.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11075.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11100.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11125.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11150.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11175.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11200.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11225.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11250.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11275.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11300.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11325.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11350.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11375.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11400.0N	5	nil	nil	nil	nil	nil	nil	nil	nil

GEOCHEMICAL SURVEY

Project Name : MARATHON Project Number: 506
Grid Name : MARATHON

Date: 11/17/94 Operator: EM NTS: 42 C/3
Baseline: 0.0N Baseline Azimuth: 90 Degrees
Number of Lines: 2 Data File: C11508.ZAT

Line: 5000.0E Azimuth: 0 Deg. Number of Stations: 13 Page 1 of 1

STATION	Au PPB	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef	undef undef
10700.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10725.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10750.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10775.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10800.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10825.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10850.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10875.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10900.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10925.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10950.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
10975.0N	5	nil	nil	nil	nil	nil	nil	nil	nil
11000.0N	5	nil	nil	nil	nil	nil	nil	nil	nil

APPENDIX III

DRILL CORE SHEETS

Oct. 194

NORANDA EXPLORATION COMPANY LIMITED

CORE SAMPLES

Property: PETRANT
Hole Number: SL-2

SAMPLE	FROM metres	TO	WIDTH metres	Au Assays (grams/mt) Au	WR			Final	
SL2-810	810	815	5ft.	✓	✓				
SL2-870	870	875	"	✓	✓				
SL2-920	920	925	"	✓	✓				
SL2-950	950	955	"	✓	✓				
SL2-1015	1015	1020	"	✓	✓				
SL2-1085	1085	1090	"	✓	✓				

DIAMOND DRILL RECORD

FORM: C:\WP51\FORMS\EWA.DO

Proj. # ________ Property Summer's Lake (NEWMONT) Grid Ref. METRIC HEMLO 38+75E / 112+00N

Hole # SL-2 Azimuth ~330° Grid Azimuth ________

Length 1181 FEET Inclination -50° Surveys

Casing 11 ft Elevation ________ Instrument Used ________

Core Size NQ

Claim Number ________

Drilled by NEWMONT Started NEWMONT FEB. 1992 Finished ________

Logged by KEVIN THOMSON Date Logged SEPT, 1994 Core Storage MNDM

Attach Location Sketch Signature NORANDA MARATHON

REQUIRED FOR COMPUTER FILE; Standard geological legend to be used.

i.e.	From - To	Rock Type - Alteration - Mineralization
	44.0 - 63.3	Volcanic - chl, hem - 2% py
		Description ....
	63.3 - 70.0	Breccia - .... - ....

FROM	TO	DESCRIPTION
0	11 ft	Overburden
11	16	Mafic Volcanic - fine gr, chloritic, mod fol^n @ 30° to CA
16	517	Intermediate volcanic (tuff to lapilli tuff) - tuff to lapilli tuff, variably fs phyric, occ^l lapilli sized frags, variable bt ± chl, locally bleached (sil ± fs) v. occ^l wk ser development, minor feldspathic bands, occ K-spar [illegible] in tract + staining of feldspar, occ^l bt-rich bands, mod fol^n ~40°, tr-0.5% py several narrow mgr granodioritic dikes
517	800	Mafic to intermediate volcanic (tuff) - f gr (tuff) sim to above but more bt ± chl, rare bleaching (alt^n), ser, good fol^n / banding at 45-50°, occ^l tr py 600-673' core missing

FROM	TO		DESCRIPTION
802	1108		Altered Intermediate to Mafic Volcanic (Int F) - as above, with variable and generally increasing alteration (feldspathization, silicification and sericitization) as noted
			802-807: moderate to strong fd, local strong sr over 1-2cm in plane of fol^{n}, tr-1% py
			807-811: strong fd / bleached, tr-0.5% py
			811-823: moderate fd, occ ± si laminae, 1% py (locally, to 2%) as fine disseminations and stringers along fol^{n} (~45° to CA)
			823-845: weakly altered as above, occ ± fd laminae, tr-0.5% f gr diss py
			845-861: moderately altered, as above, tr-0.5% f gr diss py
		*	861-889: strongly altered, fd, variable si as narrow (< 1cm) silicic bands + lenses + boudinaged qz, mod sr alt^{n}, locally strong, 1-2% py + minor po - locally to 3-4% over several 10's of cm occuring as fine disseminations + stringers in plane of fol^{n}, occ ± tr silver metallic poss aspy?
			869-874: minor green mica
			889-910: weak to local moderate alteration as above, tr-1% py (locally)
		*	910-956: moderate to strongly altered - as above, tr-1% py ± po (locally) tr aspy?
		**	970-928: intensely altered, fd, si, sr, 1-3% green mica with sr, 2% (ave) f-mgr diss py
		**	948-956: strong to intensely altered as above, 1% py ± po on average
			956-964: chloritic w/ minor tr py
			964-1108: moderately altered (locally, weak; + locally as above, tr-1% py ± po, tr aspy? strong) better subunits as noted below:
		*	1014-1017: strong fd, 2-4% py + po
			1041-1060: mod sr, tr-0.5% py ± po
			1070-1091: wk to mod ser, tr-0.5% py ± po
			- less altered portions, protolith may have been a sediment - occasionally looks v. similar to Mick's boulder!

Proj. # _____ Property SUMMERS LAKE Hole # SL-2 Page _____

FROM	TO	DESCRIPTION
1108	1112	siltstone - highly altered, up to 2% py
1112	1127	mafic (dike?)
1127	1150	Altered sediment - similar to above, wk to mod alteration, less altered portions resemble a finely laminated siltstone
1150	1160	Feldspar Porphyry dike - as before, 1-3mm fs xl's
1160	1181	Mafic Volcanic - strong fine amphibole
1181		E.O.H.

NORANDA EXPLORATION COMPANY, LIMITED

DIAMOND DRILL RECORD

LOCATION L 118 E 102+90 N DIRECTION 330° DIP -45° HOLE No. PN 4

LOGGED BY Rick Kemp CASING 2.0 meters SHEET No. 1

STARTED CORE SIZE NQ CORRECTED TESTS

FINISHED

PROPERTY Pryme North

FROM	TO		DESCRIPTION
meters			
0	2.0		Casing.
2.0	34.9		Quartz-biotite schist - garnet bearing. Unit is typically grey-brown in colour with bleaching associated with cross-cutting hairline fractures. Garnets are typically less than 2 mm in size and account for 10-20% of total rocks. 5.7 - 6.9: Amphibole - sill, dark green in colour. Amphibole rich with darker green amphibole lenses and fragments. Unit contains minor white quartzo-feldspathic grains anhedral in shape. 9.6 - 11.6: Volcaniclastic Unit. Quartz-biotite chlorite schist with white lensoic shaped cherty fragments. 10.7 - 11.1 unit becomes very thinly laminated, still quartz-biotite-chlorite rich. 11.1 - 11.4: Massive dark brown fine to medium grained pelitic looking unit. Quartz-biotite rich. 17.4 - 17.5: Quartz amphibole rich unit. Sill like. Angle to C.A. is 40°.
34.9	90.8		Volcaniclastic Unit. Grey-brown in colour. Medium to coarse grained with cherty to quartzo-feldspathic fragments stretched parallel to foliation intercalated within the package are thinly bedded quartzo-feldspathic lapilli anhedral in shape.

NORANDA EXPLORATION COMPANY, LIMITED

Diamond Drill Record

Property Pryme North Hole No. PN 4 Page No. 2

From	To	Description
		Sericitization and chloritization occur sporadically throughout the unit. Overall the unit is a felsic to intermediate volcaniclastic unit with interbedded amphibolite sills, the package is quartz-biotite feldspar, rich ± sericitic ± chlorite ± green mica (oellacherite). Sulfides occurs as disseminations or seams parallel to the foliation up to 15% pyrite and pyrrhotite. 54.7 - 55.6: Amphibole/dark green, massive/lightly carbonatized. 75.4 - 75.7: Similar to above. @ 80.7 : Similar to above. 83.1 - 84.6: Similar to above.
90.8	162.5	Intercalated zone of felsic volcaniclastics and thinly bedded quartz-biotite-chlorite ± sericite and thin interbeds containing quartzo-feldspathic lapilli providing a gneissic appearance with a moderate to good schistosity, with the thinly laminated horizons a greenish hue is noted along foliation planes possibly oellacherite. The unit is moderately to heavily silicified - with a sulfide content of up to 15-20% occuring as blebs, disseminations and lenses parallel to bedding. Interbedded throughout the unit are sills and dikes as follows: 118.8 - 111.2, 111.6 - 111.8, and 111.9 - 113.8: hornblende, biotite sill with small phenocrysts less than 2 mm peppered throughout. Dark green brown in colour. 118.6 - 119.0: Felsic dike with faint quartzo-feldspathic phenocrysts. 135.2 - 135.3: Same as 111.9 - 113.8 m.

NORANDA EXPLORATION COMPANY, LIMITED

Diamond Drill Record

Property Pryme North Hole No. PN 4 Page No. 3

From	To	Description
		136.0 - 142.3: Gabbroic intrusive, very coarse grained with large amphibole blades and feldspar phenocrysts set in a quartzitic groundmass, providing a mottled appearance. 150.2 - 150.8: Felsic dike, same as 118.6 - 119.0. 157.5 - 157.9: Amphibole dike, dark green in colour, massive. 159.5 - 160.1: Quartz Feldspar Porphyry, white feldspar phenocrysts set in a dark quartz-biotite hornblende groundmass. 162.3 - 162.5: Same as 157.5 - 157.9. Angle to C.A. is 60°.
162.5	168.5	Quartz Biotite feldspar schist and gneiss with minor sericite alteration. Trace garnet noted and minor zones of thinly laminated quartz-biotite and chlorite beds containg thin beds of quartzo-feldspathic lapilli (?) zone contain 2% pyrite and pyrrhotite. Angle to C.A is 60°.
168.5	182.0	Felsic Volcaniclastic. Silicified with very fine grained cherty and mafic fragments. Zone is moderately sericitized and contains up to 6% pyrite and pyrrhotite. Thin interbeds of quartzo-feldspathic lapilli (?) occur interbedded with the volcaniclastic intercalated within the zone are several sills and kikes as follows: 169.9 - 170.1: Dark green massive sill. Fine grained 172.6 - 173.7: Mafic sill dark green black in colour, containing small fine grained white quartzo-feldspathic phenocrysts. 174.4 - 174.8 & 175.2 - 175.8: Felsic dike, faint white feldspar phenocrysts set in a quartz rich

NORANDA EXPLORATION COMPANY, LIMITED

Diamond Drill Record

Property Pryme North Hole No. Pn 4 Page No. 4

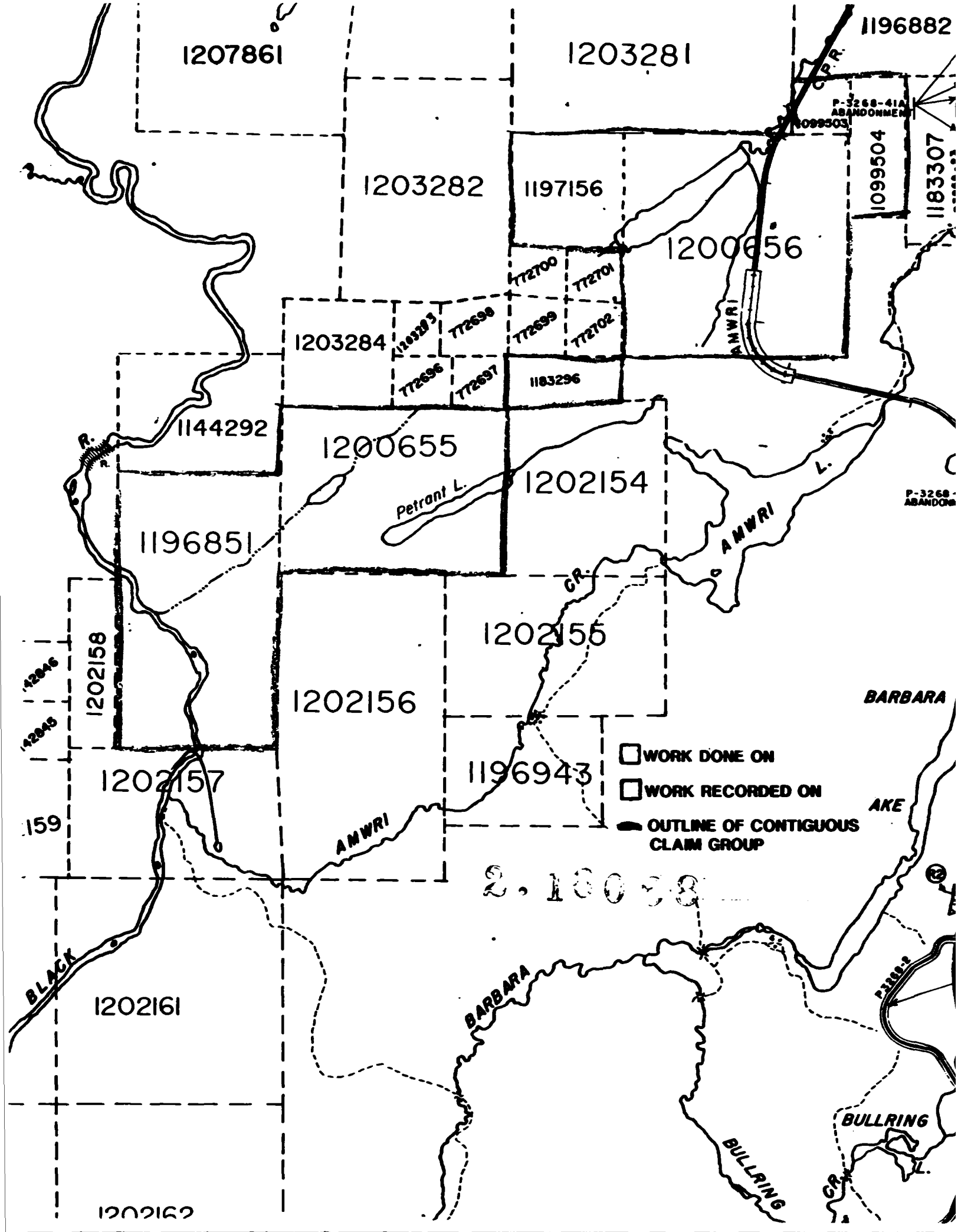
From	To	Description
		matrix. 176.2 - 177.0: Quartz Feldspar Porphyry, white feldspar phenocrysts set in a darker feldspar quartz rich matrix with fine biotite rich streaks. 177.8 - 180.3: Mafic sill dark green black in colour from 177.8 - 178.8 porphyritic with pinhead size feldspar and phenocrysts.
182	187.9	Unit changes character to a very siliceous and hard unit, containing graphitic interbeds. Possibly of chemical sediment origin. Microfaulting occuring normal to bedding is noted - offsetting beds up to 3 cm. Pyrite and pyrrhotite increases to less than 15%. 187.2 - 187.9: Graphitic healed fracture with approx. 25% pyrite, pyrrhotite/blue coloured material noted @ 187.7 - it has no clear habit possibly andalusite (?). 182.6 - 182.9: Faint feldspar porphyry - olive green in colour with anhedral feldspar phenocrysts. 186.7 - 187.0: Same as above, containing 2-3% pyrrhotite. Angle to C.A. is 60°.
187.9	194.1	DIABASE DIKE. Fine grained, non-magnetic.
194.1	195.1	Sulfide bearing graphitic horizon with 20-30% pyrite, pyrrhotite zone is very graphitic marking the contact between the overlying chemical and volcaniclastic sediments & the underlying mafic volcanics, core is very blocky and brecciated. Blue mineral noted with zone andalusite (?) Angle to C.A. is 60°
195.1	212.4	Mafic Volcanics. Amphibole schist/coarse to medium grained - locally, containing garnets, pinhead in

NORANDA EXPLORATION COMPANY, LIMITED

Diamond Drill Record

Property Pryme North Hole No. PN 4 Page No. 4

From	To	Description
		size as well pyrrhotite is noted as disseminations approx. 1%.
		END OF HOLE AT 212.4 meters.


1207861
1203281
1196882
1203282
1197156
1200656
1099504
1183307
1203284
1183296
1144292
1200655
1202154
1196851
1202155
1202158
1202156
1202157
1196943
1202161
1202162
T72700
T72701
T72698
T72699
T72702
T72696
T72697
AMWRI
Petrant L.
BARBARA
BULLRING
BLACK
WORK DONE ON
WORK RECORDED ON
OUTLINE OF CONTIGUOUS CLAIM GROUP

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9540-135

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.

2.16058

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for re Recorder.
- A separate copy of this form must be complet
- Technical reports and maps must accompany
- A sketch, showing the claims the work is assi

42C13SW0102 2.16058 WABIKOBA LAKE

900

Recorded Holder(s)		Client No.
Hemlo Gold Mines Inc.		143550
Address PO Box 1205, 60 Shirley Street South, Timmins, Ont. P4N 7J5		**Telephone No.** (705) 268-9600
Mining Division Thunder Bay	**Township/Area** Wabikoba Lake	**M or G Plan No.** G620
Dates Work Performed From: June 7, 1994	To: October 16, 1994	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	Geology survey, prospecting, soil sampling, core sampling
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	Rock + Soil Assays
	Assignment from Reserve	

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JUN [illegible]
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ 21,150.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Uytyl Exploration Services (LC)	1529 Rankin St., Thunder Bay, Ont.
Sid Thompson (Prospecting)	% PO Box 1205, 60 Shirley St. South, Timmins, Ont P4N 7J5
John Londry (Author) Mick Stores, Steve	Ditto
Stores, Brian Bilk, Bruce McLachlan	

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: May 23, 1995	Recorded Holder or Agent (Signature)

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: John Londry % PO Box 1205, 60 Shirley St. South, Timmins, Ont P4N 7J5

Telepone No.	Date	Certified By (Signature)
(705) 268-9600	5-23-95	

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
21150		M. G. Weerme	RECEIVED MAY 26 1995 A.M. 7 8 9 10 11 12 1 2 3 4 5 P.M.
	Deemed Approval Date: Aug 24/95	Date Approved	
	Date Notice for Amendments Sent		

0241 (03/91)

Work Report# for Applying Reserve	Claim Number (see note 2)	# of Claim Units	Value of Assesment Work Done on this Claim	Value Applied to this Claim	Values Assigned from this Claim	Reserve:Work to be Claimed at a Future Date
	TB 1.099.503	1	1.056.00	400.00		656.00
	TB 1.099.504	3	2.131.00	1.200.00		931.00
	TB 1.196.851	15	5.258.00	5.258.00		
	TB 1.197.158	4	0.00	1.600.00		
	TB 1.183.296	2	2.115.00	800.00	1.078.00	237.00
	TB 1.200.655	12	5.322.00	4.800.00	522.00	
	TB 1.200.656	16	5.268.00	5.268.00		

Total Number of Claims	Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve
7	21.150.00	13.326.00	1.600.00	1.824.00

Credits you are claiming in this report may be cut back. In order to minimize the adverse affects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (x) one of the following:

1. [ ] Credits are to be cut back starting with the claims listed last, working backwards.

2. [ ] Credits are to be cut back equally over all claims contained in this report of work.

3. [ ] Credits are to be cut back as priorized on the attatched appendix.

4. [x] Credits are to be cut back starting with the claims that have reserve credits.

In the event that you have not specified your choice of priority, option one will be implemented.

RECEIVED
MAY 26 1995
A.M. 7 8 9 10 11 12 1 2 3 4 5 P.M.

Note 1: Examples of beneficial interest are unrecorded transfers, option payments, memorandum of agreements, etc., with respect to the mining claims.
Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9540-135

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	8547.00	
	Field Supervision Supervision sur le terrain	2277.00	10,824.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Prospecting Sid Thompson	1000.00	
	Uthal Exploration Services (L.C.)	5902.00	
	Assaying	1104.00	8006.00
Supplies Used Fournitures utilisées	Type Sample bags, flagging	120.00	
			120.00
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		8,950.00

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck Rental (gas)	700.00	
			700.00
Food and Lodging Nourriture et hébergement	Camp Costs	1500.00	1500.00
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		2200.00
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		2200.00
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)		11,150.00

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

RECEIVED
MAY 26 1995 P.M.
7 8 9 10 11 12 1 2 3 4 5

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Lands Manager (Recorded Holder, Agent, Position in Company) I am authorized

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé

à faire cette attestation.

Signature	Date
	May 23, 1995

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Geoscience Approvals Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Our File: 2.16068
Transaction #W9540.00135

August 31, 1995

Mining Recorder
Ministry of Northern Development & Mines
435 James Street South
Thunder Bay, Ontario
P7E 6E3

Dear Mr. Weirmeir:

RE: APPROVAL OF NOTICE OF DEFICIENCY ISSUED ON MINING CLAIMS 1099503 ET AL. IN WABIKOBA LAKE AREA.

The deficiencies in the original submission have been rectified.

The assessment work credits as outlined in the original report of work form for this submission have been approved as of **August 31, 1995.** The credits have been approved under Sections 12,17,9, Geology, Assays, Prospecting, Mining Act Regulations.

Please indicate this approval on the claim record sheets.

If you have any questions regarding this correspondence, please contact Bruce Gates at (705) 670-5856.

Yours sincerely,

Ron Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

BIG/

cc: Resident Geologist
Thunder Bay, Ontario

Assessment Files Library
Sudbury, Ontario

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

(R1) Lands subject to easement for tailings disposal (Bomby twp. landroll) easement #84-10

(R2) Surface and mining rights withdrawn from staking order W 33/85, 18/12/85.

(R3) Surface rights withdrawn from staking order W 28/83, 20/10/83.

(R4) Surface rights withdrawn from staking order W 22/84, 14/09/84.

(R5) Surface rights withdrawn from staking order W 10/85, 02/10/85.

(R6) ~~Surface rights withdrawn from staking order W TB 84/94NWR 94/16/14, septic drying bed,~~ RESCINDED ORDER O-TB 1/86 NWR

(R7) area subject to flooding and other rights under easement #85-14 see white lake north landroll.

BLACK RIVER G-580

LORNA LAKE G-598

ROUS LAKE G-611

WHITE LAKE (N. PT.) G-622

WHITE LAKE (S. PT.) G-623

BOMBY TWP. G-3173

BROTHERS TWP. G-3172

2.16068 GEOL, PROSP ASSAY

LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC
  - LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ~~ORIGINAL SHORELINE~~
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◐
" , MINING RIGHTS ONLY	◑
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	◧
" , MINING RIGHTS ONLY	◨
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊘
SAND & GRAVEL	Ⓢ

LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 9, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

SCALE 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

SOLONG LAKE SUBJECT TO FLOODING TO ELEVATION GSC 323.75 METRES

Lands Surrounded by This Marking are Subject to Sec. 189 Easement #84-10. See Bomby Landroll.

★★★★★ Lands Surrounded by This Marking are Subject to Flooding and other rights, as per Sec. 189 Easement #85-14. See White Lake N. Landroll.

NOTE: The above Easements Run With The Land And Will Affect Leases And Patents.

The information that appears on this map has been compiled from various sources and accuracy is not guaranteed. Those wishing to stake MINING CLAIMS should consult with the MINING RECORDER Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon.

AREA

WABIKOBA LAKE

M.N.R. ADMINISTRATIVE DISTRICT
TERRACE BAY
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

2.16068

Ontario Ministry of Natural Resources — Land Management Branch

Date AUGUST 1984

In service Oct. 28/94.

Number G-620

42C13SW0102 2 16068 WABIKOBA LAKE

200


N
5400E
5200E
5000E
4600E
4200E
4000E
3600E
3200E
11600N
11400N
11200N
11000N
10800N
10600N
10000N BASELINE 50°
1200655
1196851
2.16038
Contour Interval :
100m 50m 0m 100m 200m
PETRANT
SOIL GEOCHEMICAL SURVEY
PRB AU
PROJECT: PETRAND LAKE PROJECT # : 506
BASELINE AZIMUTH : 50 Deg.
SCALE = 1: 5000
DATE : 12/ 2/94
SURVEY BY : BM
NTS : 42C/13
FILE: C506RE
210

HEMLO REGIONAL LEGEND

1 MAFIC META-VOLCANIC ROCKS
1a mafic flow
1c amygdaloidal / spherulitic flow
1p pillowed flow
1s ultramafic flow
1t tuff,lapilli tuff
1f tuff-breccia

2 FELSIC META-VOLCANIC ROCKS
2a massive flow
2b tuff
2c lapilli tuff
2d tuff breccia

3 INTERMEDIATE META-VOLCANIC ROCKS
3a massive flow
3b tuff
3c lapilli tuff
3d tuff-breccia

4 CHEMICAL META-SEDIMENTARY ROCKS
4a chert
4b cherty siltstone
4c oxide facies chert-mg IF
4d sulfide facies chert, siltstone-py/po IF
4e pelitic sediments (-/-chert,gm,py,po)

5 CLASTIC METASEDIMENTARY ROCKS
5a cobble conglomerate
5b pebble conglomerate
5f sandstone
5g fine sandstone
5h fine sandstone and siltstone
5k siltstone and sandstone
5m siltstone
5n argillite
5p pelitic siltstone, pelitic sandstone

6 FELSIC META-INTRUSIVE ROCKS
6a quartz-feldspar porphyry stock
6b feldspar porphyry stock

7 FELSIC DIKES
7a quartz-feldspar porphyry dikes
7b feldspar porphyry dikes
7c irregular FP dikes (popcorn porphyry)
7d equigranular dikes

8 MAFIC DIKES
8a diorite
8b gabbro
8l lamprophyre
8s ultramafic

9 MAFIC PLUTONIC ROCKS
9a gabbro
9b ultramafic

10 FELSIC PLUTONIC ROCKS
10a granodiorite ... Pluton
10b monzonite ...
10c feldspar porphyritic diorite ... Stock

11 GNEISSIC COMPLEX ROCKS
11a unsubdivided
11b granite gneiss
11c sedimentary gneiss
11d mafic gneiss

12 LATE FELSIC INTRUSIVES
12a aplite
12b pegmatite

13 DIABASE
13a diabase

MODIFIERS

Textural Features
qe quartz-eye bearing
fc feldspar crystal bearing
r mudstone rip-up clast bearing
bx brecciated
sh sheared

Metamorphic Minerals
an andalusite
cd cordierite
ch chlorite
cm cummingtonite
gt garnet
ky kyanite
mg magnetite
sl sillimanite
st staurolite

Alteration Minerals
bt biotite
cc calcite
ep epidote
fc iron carbonate
fd feldspathized
ff feldspathized fractures
fs feldspathized stockwork
gm green mica
hm hematite
k pink potassium feldspathized
qv quartz vein
si silicified
sr sericitized
sp sericitized patches
ss sericitized stockwork
tc talc
tm tourmaline

Sulfides Etc
an anhydrite
au gold
ba barite
cp chalcopyrite
gn galena
gf graphite
ma malachite
mo molybdenite
po pyrrhotite
py pyrite
sp sphalerite
te tellurides

( ) modifiers in parentheses are minor
CAPS capitalized modifiers are coarse-grained or intense

SYMBOLS

OUTCROP
GEOLOGY CONTACTS INTERPRETED
STRIKE AND DIP FOLIATION
IP ANOMALY
SAMPLE LOCATION & NUMBER
DIAMOND DRILL HOLE (VERTICAL)
TRENCH
CLAIM POST LOCATED
CLAIM POST NOT LOCATED
SWAMP
FAULT ((G)-GEOPHYSICALLY INTERPRETED)
SLOPE
OPENING BOUNDARY
POWER LINE
HIGHWAY
GRAVEL ROAD
RAILROAD

: Prospecting Traverse (approximate)

2.16068

100
Meters

HEMLO GOLD
Timmins,ONT.

PETRANT OPTION

COMPILATION MAP

Interpreted by
Scale 1:5,