REPORT ON THE PROSPECTING AND GEOPHYSICAL SURVEYS CARRIED OUT ON THE RANTA PROPERTY, MOSS TOWNSHIP

by: Claude Larouche P.Eng.
OVALBAY GEOLOGICAL SERVICES INC.
1070 Lithium drive, Unit #1
Thunder Bay, Ontario P7B 6G3
Phone: (807) 623-3770
Fax : (807) 623-2335

January 1992

TABLE O

page

APPENDICES

LIST OF FIGURES

LIST OF MAPS (in pocket)

Map 1: Magnetic survey
Map 2: Electromagnetic Survey VLF-EM 16
Map 3: Geophysical compilation
Map 4: Samples location and sketch of geology

INTRODUCTION

The following report presents the results of a limited exploration programme comprising prospection and geophysical surveys. The exploration programme was completed on a block of 4 claims in Moss township.

All available information from the assessment files at the Resident Geologist's office in Thunder Bay have been carefully studied in the area of the claims block.

The exploration work has been financed with an OPAP Grant to E.W. Ranta, Prospector license E 32770. Exploration in the immediate area is presently active since most of the area was closed for exploration for roughly 20 years.

LOCATION AND ACCESS

The claim block under examination is located within the Shebandowan Greenstone Belt, which stretches 105 kilometres west from Thunder Bay, in Northwestern Ontario (Figure 1). The western portion of the belt surrounds the 40 kilometres long Shebandowan Lake system and extends southwest across a narrow granitoid intrusion to a smaller greenstone belt, which follows the Canada - U.S.A. border from Saganaga Lake through Knife lake. Being on a historical trade route linking Upper Canada with the west via the Great Lake, the area has long been accessible to prospectors and promoters.

The claims are located in the central part of Moss Township, approximately 1 mile south west of Moss Lake.

Ground access to the Great Lakes Paper Company network of lumber roads is via Highways # 11 and # 802. Highway 802 branches from Highway 11 roughly 65 miles west of the city of Thunder Bay and 1.25 miles west of Kashabowie. The area is also easily accessible through the Swamp road which branches from Highway # 11 some 25 miles west of Highway # 802.

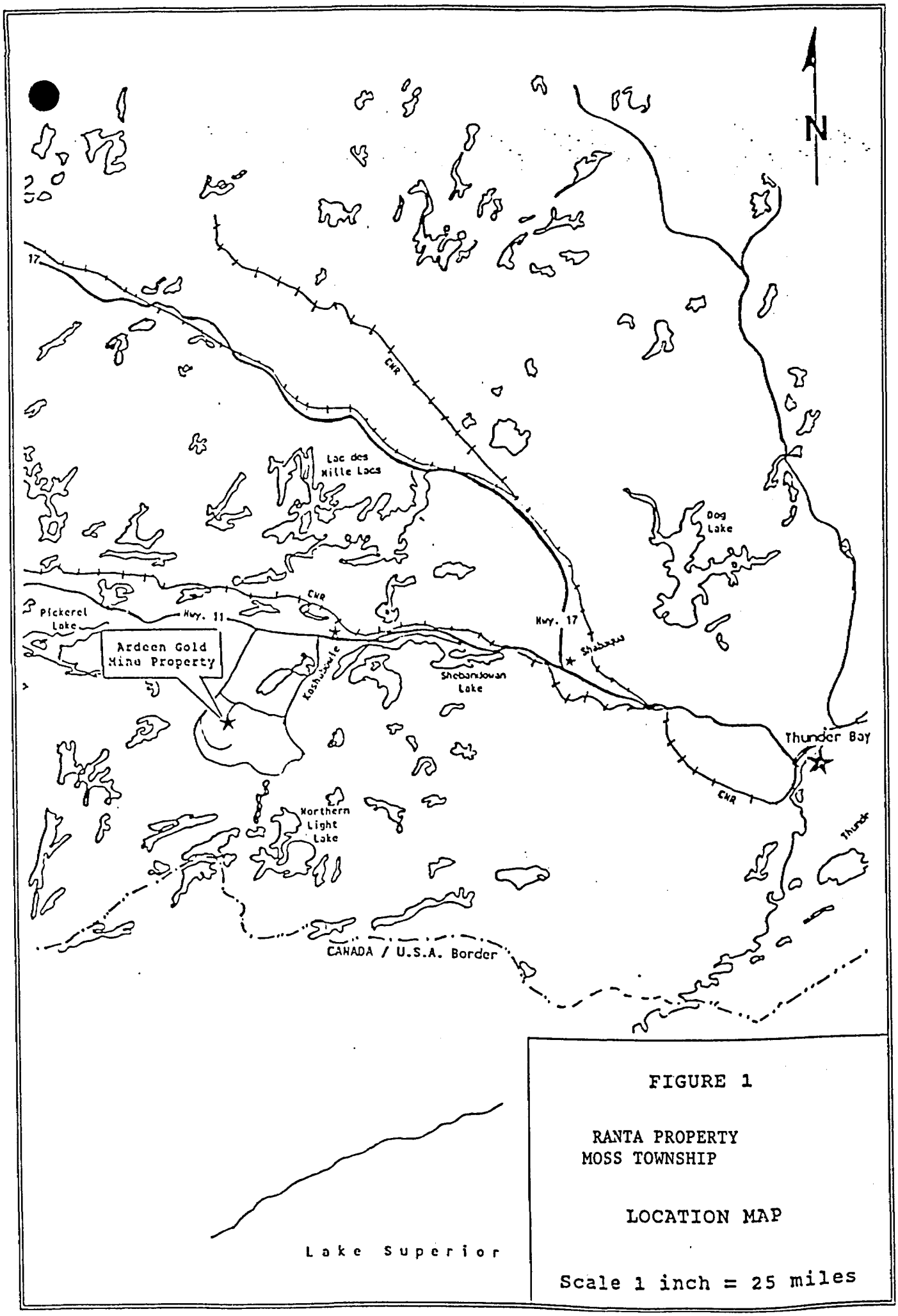


FIGURE 1

RANTA PROPERTY
MOSS TOWNSHIP

LOCATION MAP

Scale 1 inch = 25 miles

CLAIMS

The four claims (Figure 2) are located just south east of the Ardeen Gold Mine # 2 shaft and were part of the original Ardeen Gold mine property. In 1975, Agricultural Rehabilitation Development Administration (ARDA) bought most of Belore's patented claims including the area under study. In the summer of 1990, the area was reopen for staking. A group of four claims was staked and the numbers are as follows:

Claim number:

1164874
1164875
1164876
1164877

REGIONAL GEOLOGY

The Shebandowan Greenstone Belt forms part of the Wawa Subprovince of the Superior Structural Province of the Canadian Shields. The Wawa Subprovince extends eastward through Thunder Bay to the eastern side of Lake Superior. The western half of the greenstone belt which is characterized by greenschist facies metavolcanic rocks, partly encircles a terrane of plutonic and amphibolite facies gneissic rocks to the south, referred to as the Sunbar-Batwing Lake Complex. The metasedimentary Quetico subprovince abuts the Shebandowan Belt to the north.

The area under study (Figure 3) is occupied by two contrasting suites of older metavolcanic rocks, predominantly mafic to intermediate metavolcanic rocks, iron formation and intermediate ashflow rocks in the west and predominantly felsic metavolcanic rocks in the east. Metadiabase sills, emplaced mainly in the mafic metavolcanic terrain are considered the oldest intrusions exposed. Metadiabase and both mafic and felsic metavolcanics rocks are cut by dikes and stocks of feldspar and feldspar - quartz porphyry, hornblende lamprophyre, quartz syenite and larger bodies of hornblende gabbro to diorite.

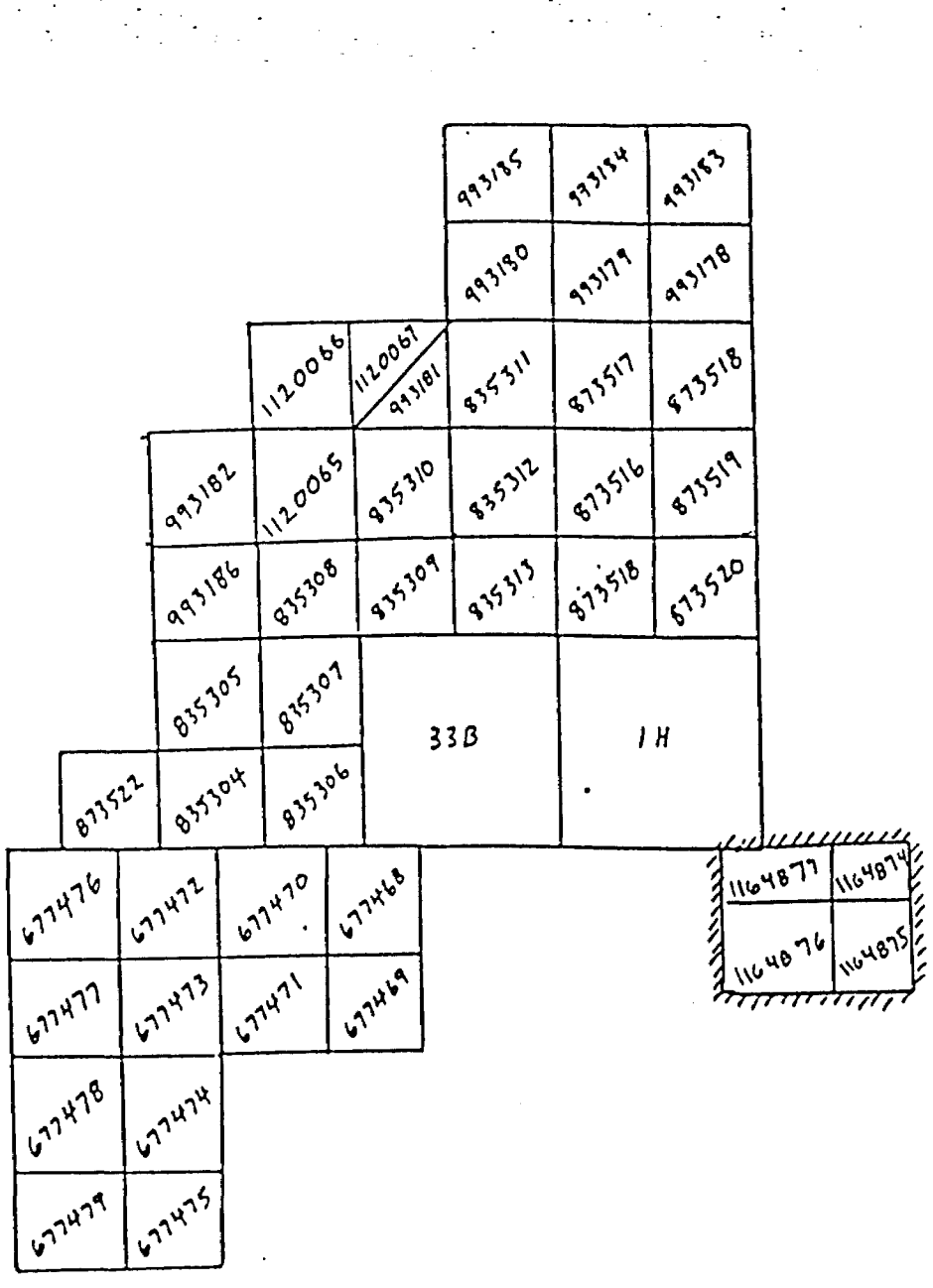
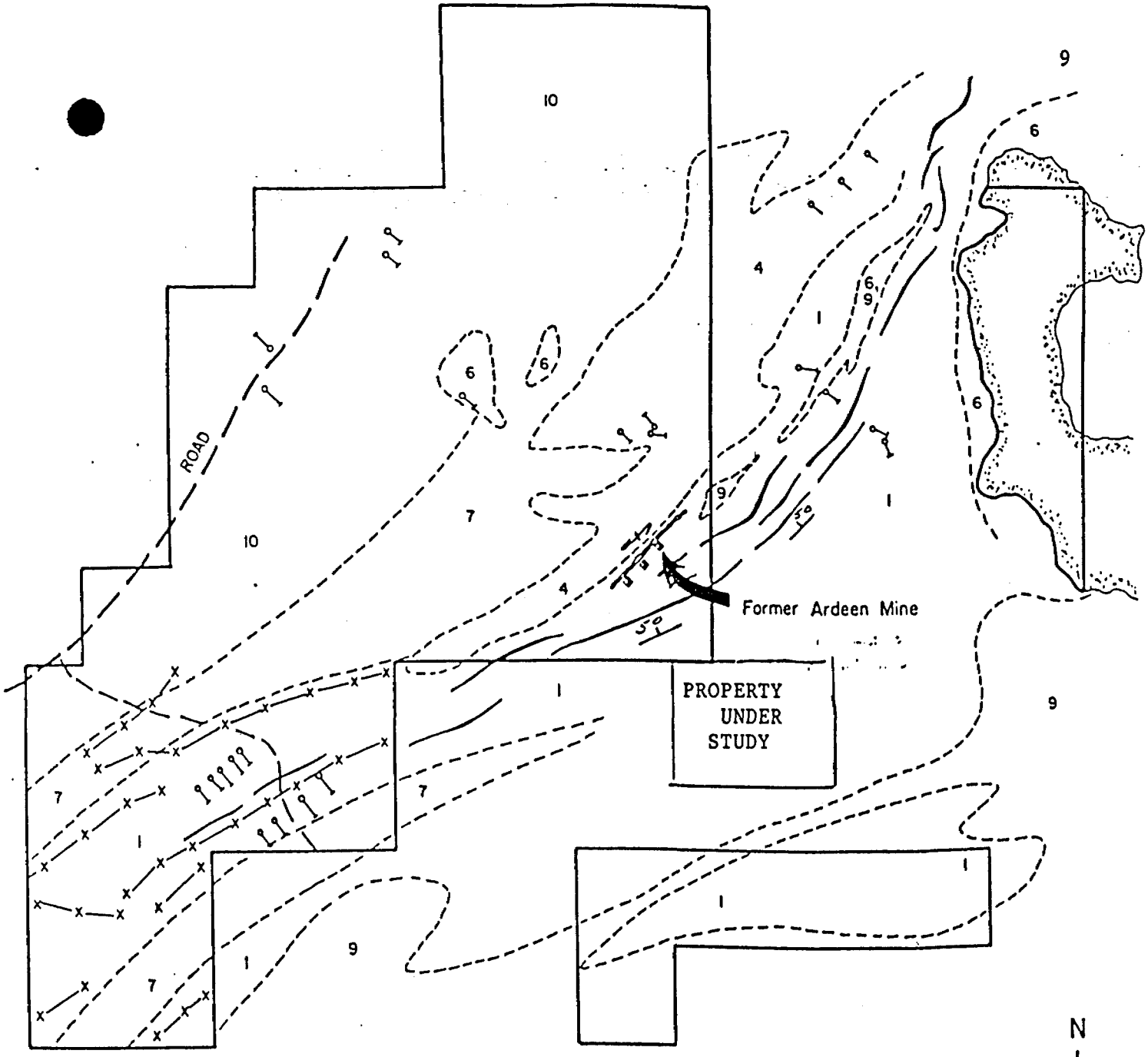


FIGURE 2

RANTA PROPERTY

CLAIMS MAP

Scale 1 inch = 1/2 mile



LEGEND

- 1 MAFIC VOLCANIC UNITS
- MAGNETIC IRON FORMATION &/or CHERT
- 4 GABBRO-DIORITE
- 6 SYENITE
- 7 CONGLOMERATE &/or TUFF
- 9 FELSIC VOLCANIC UNITS
- 10 METASEDIMENTARY UNITS
- x—x VLF-EM ANOMALY
- GEOLOGICAL CONTACT
- DIAMOND DRILL HOLE

RANTA PROPERTY

MOSS TOWNSHIP

COMPILATION MAP

SCALE

0 400m 800m 1200m

The deformation is very heterogeneous, partitioned mainly along narrow, very schistose, northeasterly striking high strain zones which are closely spaced in the Ardeen Mine area just north west of the claims under study. These zones are characterized by a strong lineation which plunges gently southwest. Carbonate and sericite schists are important along segments of some of the zones.

The various shear zones in the Ardeen mine area and the intersection of brittle fracture zones and one of the northeast trending carbonatized shear zone at Snodgrass Lake appear to exert the most significant influence on the localization of gold.

PREVIOUS WORK

Prior to 1968, the claims under study were part of the mining concession 28B which was part of the Ardeen Gold Mines property. Over the years, Ardeen Gold Mines Limited Company (incorporated in December 1933) was also named Huronian Mines Limited Company, Jackfish Lake Mining Company, Moss Mines Limited, Moss Gold Mines Limited and Kerry Gold Mines Limited.

From 1968 to 1973, Kerry Mines Limited optioned the old mine and surrounding land to Belore Mines Limited which was incorporated in June 1968. At that time all exploration work was concentrated to the north east of the claims under study. Recently some old trenches were discovered while prospecting the claims, there is no information within assessment work files as to know who carried out the work. It may have been done during the period from 1935 to 1968.

From 1973 to 1974, Dome Exploration Limited optioned some of the claims from Belore, including the claims under study. Geological and geophysical surveys were carried out on the claims and a limited diamond drilling program was completed just north and north west of the group of claims.

In 1975, Agricultural Rehabilitation Development Administration (ARDA) bought most of Belore's patented claims including mining location 28B.

During the Summer of 1990, the claims were reopen for staking.

MINERALIZATION

From a recent geological compilation of Moss township by geologists from the Ontario Geological Survey, the following observations were made on the potential for economic mineralizations in Moss Township.

" Gold occurs in the following associations; 1) quartz and quartz-carbonate veins mineralized with pyrite, chalcopyrite, galena, sphalerite and telluride along northeast-trending shear zones (eg. Huronian Mine, Minoletti and Beaver zones); 2) along mineralized shear zones and associated fractures in diorite and feldspar porphyry bodies within the CFU (central felsic the intermediate metavolcanic unit) eg. Snodgrass and Span lakes areas. Small syenite bodies are often associated with these bodies at the sites of gold mineralization.

Anomalous gold also occurs in several other discrete shear zones both within and along the contact between the Quetico metasedimentary and Shebandowan metavolcanic rocks.

Exploration for possible base metal and gold mineralization should be focused along the contact of the gabbroic sill-complex within The Quetico metasedimentary rocks in northwestern Moss Township."

RECENT WORK

Geophysical surveys

Following the approbation of an OPAP Grant to Mr E.W. Ranta, the owner of four contiguous claims in the central part of Moss township, a limited exploration programme was initiated to evaluate the economic potential of the claims block.

A grid of north - south lines spaced 100 metres apart was established as reference stations for the geophysical surveys. A total of 5.32 km of lines including the base line was completed. The ground geophysical surveys including a magnetometer and an electromagnetic VLF-Em16 survey, were carried out by G.L. Mealy of Murillo (R.R. #1, Mining Rd., Murillo, Ontario P0T 2G0 phone (807) 935-2747).

The magnetometer survey was conducted with a Scintrex MP2 Proton Mag instrument measuring the value of the total magnetic field with a precision of 1.0 gamma. The readings were taken systematically every 12.5 meters along the cut and chained lines. The bases stations were located along the base line at the cross line intercepts. The magnetic readings have been corrected for diurnal variations where necessary.

The magnetic results are presented on a map (Map 1) at the metric scale of 1=2,500 in pocket. 58,000 gammas should be added to the plotted value in order to obtain the measured value. Two contours, 1,500 and 2,000 gammas have been traced to identified differences between rock formations. It appears that locally some rock formations present a higher magnetic intensity and may represent different rock types. The higher magnetic anomalies are oriented from 060 to 090 degrees and correspond to the local geological trend.

The electromagnetic VLF-Em16 survey was carried out with a Geonics Em16 Instrument using Cutler, Maine station (frequency 24.0 kHz). The vertical components (in phase and quadrature) of the secondary field are measured with a precision of + or -2%. The readings were taken systematically every 25 metres along the grid lines.

The results of the electromagnetic survey are plotted on a map (Map 2) at the metric scale of 1=2,500 in pocket. Profiles at the scale of 1 cm=10% have been drawn for the in phase and quadrature readings. The possible conductors have been interpreted and marked by a bolder line.

Map 3 presents a compilation of the geophysical anomalies resulting from the ground surveys. The VLF Em-16 anomalies have been numbered and their characteristics are as follows:

Anomalie	Length (metres)	centre	Remarks
#1	>500	L5+00E 1+10N	Cliff present, topographic feature which may represent a fault, cut across magnetic anomaly.
#2	>300	L2+00E 0+15S	Moderate anomaly, south contact of magnetic anomaly
#3	>300	L2+00E 1+10S	Strong bedrock anomaly, parallel to #2.
#4	>300	L1+00E 1+60N	Weak bedrock anomaly close to surface.
#5	>200	L0+50E 0+45N	Weak bedrock anomaly close to surface, parallel to #4, possible extension of #1
#6	200	L5+50E 0+10N	Limited, weak anomaly close to surface
#7	100	L6+00E 2+00N	Strong one line anomaly, close to surface
#8	100	L4+00E 2+15N	Weak one line anomaly

It is assumed that many of the electromagnetic VLF-Em16 anomalies represent faults or faulted geological contacts. The general orientation is roughly east - west, nevertheless two northeast trending faults have been inferred based on the local patterns of magnetics and VLF-Em16 anomalies.

Prospecting

A total of 23 days were spent prospecting over the block of 4 claims. A daily log is presented in Appendix 1. A total of 43 samples were collected from which 23 were described (Appendix 2) and sent for assays. Multielement analyses were completed on two samples. From the multielement analyses between samples # 2 and # 10, even if the rocks are described as mafic volcanics, significant differences appear for some elements such as: Cu, Zn, Ag, Ni, Co, Mn, Fe, Sr, Sb, V, Ca, Cr, Mg, Ba, Ti, B, Al, Si and W. Marked variations in these elements are usually associated with alterations zones around economic mineral deposits.

More multielement analyses are required for a detailed study of the variations of each element taking into consideration geological rock formations. The locations of the samples described in Appendix 2 are presented on Map 4 along with a sketch of the geology. Some of the samples carried gold values in trace amounts, only the last sample which was silicified, carbonated with narrow quartz carbonate stringers, returned a significant result (0.20 opt Au).

RECOMMENDATIONS

The limited exploration work completed to date with the OPAP Grant, served to upgrade the mining property which was dormant for the last 20 years. The geophysical surveys should be extended to include an electromagnetic survey using the NSS station in order to locate possible northeast trending shear zones which are very important in the immediate region for the location of economic concentration of gold. Trenching should be extended to other known Em anomalies and the grid should be mapped in detail. With the two samples assayed for multielement, it appears that lithogeochemistry should be considered on a small scale.

CLAUDE LAROUCHE, President
OVALBAY GEOLOGICAL SERVICES INC.

SUMMARY OF EXPENSES

- Line cutting, North - South lines total of 5.32 km	$ 2,100.00
- Geophysical surveys magnetic and electromagnetic ground survey total of 5.32 km	$ 1,042.24
- Assays	$ 453.68
- Material (Explosives).....	$ 278.30
- Prospecting, trenching and blasting	
-Prospector 23 days at $100.00/day	$ 2,300.00
-Helper 9 days at $150.00/day	$ 1,350.00
- Food	$ 210.43
- Transportation total 4,718 km at $0.30/km	$ 1,415.40
- Report, recommendations, photocopies and reproduction	$ 849.95
Total:	$10,000.00

Prospecting

A total of 23 days were spent prospecting over the block of 4 claims. A daily log is presented in Appendix 1. A total of 43 samples were collected from which 23 were described (Appendix 2) and sent for assays. Multielement analyses were completed on two samples. From the multielement analyses between samples # 2 and # 10, even if the rocks are described as mafic volcanics, significant differences appear for some elements such as: Cu, Zn, Ag, Ni, Co, Mn, Fe, Sr, Sb, V, Ca, Cr, Mg, Ba, Ti, B, Al, Si and W. Marked variations in these elements are usually associated with alterations zones around economic mineral deposits.

More multielement analyses are required for a detailed study of the variations of each element taking into consideration geological rock formations. The locations of the samples described in Appendix 2 are presented on Map 4 along with a sketch of the geology. Some of the samples carried gold values in trace amounts, only the last sample which was silicified, carbonated with narrow quartz carbonate stringers, returned a significant result (0.20 opt Au).

During the period from September 24th to October 28th, 1991 prospecting was concentrated mainly in the northern portion of the claims, close to the old Ardeen gold mine and the recent discovery by AKIKO LORI just north of the claims under study. Due to the rounded faces of most of the outcrops, helpers were hired at few occasions to help drill and blast for sampling.

Map 4 (in pocket) presents the pertinent informations collected while prospecting. The locations of all traverses are indicated by a dashed line on Map # 4. Outcrops and area of outcrops investigated were plotted using the survey lines as reference stations. In general, beside a few wet swampy areas characterized by alders and tamavac, the rest of the property is covered by mature forest: spruce, birch, jack pine and poplar. Only in the north west corner of the claim block, that the forest was harvested. The overburden appears to be relatively thin, except for the south-east corner where the thickness might be more important.

The topography is relatively flat with rolling hills up to 40 feet higher than the surrounding swamps. Very often the margin of the outcrops defines small cliffs up to 10 feet high generally oriented in the north-east direction.

Boulders encountered during the prospecting are commonly angular volcanic rocks, probably in situ with less abundant granitic boulders generally well rounded. The overburden is sandy with minor clay and organic material. The dominant rock formation is composed of intermediate to mafic volcanics with a few outcrops of gabbro in the central west portion of the claims.

The volcanics are fine grained, grey green to dark green in colour and fairly massive. In places, amygdules filled with quartz carbonate are abundant. Coarser grained material, massive, dark green mapped as gabbro is present in the central west portion of the claims.

Mineralization encountered during prospecting is characterized by minor pyrite concentrated along fractured and also disseminated within sheared zones. Sillicification is present locally around small quartz stringers with minor carbonate. The area north of the baseline at roughly 0+75N, between lines 3E and 7E seems to be the most promising. Numerous quartz stringers are present on the south ridge at the contact of a linear swampy valley which may represent a shear zone.

APPENDIX 1

PROSPECTING DAILY LOG

Date	Work performed	# Samples
Sept. 24	Prospected north claim line of claim 1164874, found some outcrop	1
Oct. 3	Prospecting central part of claim 1164874, few outcrops, cliff 10' high	2
Oct. 4	Prospecting north of south line claim 1164874, pick up VLF survey	2
Oct. 5	Checking VLF anomalies in central part of claim 1164874	4
Oct. 6	Same as Oct. 5	
Oct. 7	Description of samples, samples sent to the Lab.	
Oct. 8	Prospecting along east line of claim 1164877	3
Oct. 9	Prospected south line of claim 1164877, also north of this same line	2
Oct. 10	Centre of claim 1164874, hand stripping, drilling (gas drill), sampling	4
Oct. 11	Some blasting done, same area as yesterday	2
Oct. 12	Prospecting south of North claim line 1164876	2
Oct. 14	Prospected east line of claim 1164876	3
Oct. 15	Prospected north line of claim 1164877, wet area with some outcrops	3
Oct. 16	Prospected east line of claim 1164875 and north line of same claim	3
Oct. 17	Prospected central area of claims 1164877 and 1164874	

Oct. 18	Picked up gas drill at Ministry checked it over, ready for week end	
Oct. 19	Travelling, repair Drill, compilation of geophysical data	
Oct. 20	Look at Akiko Lori new showing just north of our claims, prospected central part of claim 1164874	
Oct. 21	Prospected north line of claims 1164877 and 1164874	4
Oct. 22	Return drill to core library, sharpen steel	
Oct. 24	Prepared rock samples, took samples to the Lab., work on report and maps	
Oct. 25	Picked up Cobra drill at Core Library, prepared equipment	
Oct. 26	Drilling and blasting, south of north line 1164874	8
Oct. 28	Took drill back to Ministry, check over samples	

APPENDIX 2

DESCRIPTION OF SAMPLES

Sample #	Type	Description	Mineralization	Assays
#1	Grab	Mafic volcanic	minor pyrite	Au 24 ppb
#2	Grab	Mafic volcanic	minor pyrite	Au 10 ppb
		Multielement analysis		
	Mo 2 ppm	Cu 85 ppm	Pb 7 ppm	Zn 96 ppm
	Ag 0.9ppm	Ni 90 ppm	Co 36 ppm	Mn 1248 ppm
	Fe% 7.20	As 6 ppm	U n/a	Au <3 ppm
	Hg <3 ppm	Sr 31 ppm	Cd <1 ppm	Sb 14 ppm
	Bi <3 ppm	V 68 ppm	Ca% 3.99	P% 0.10
	La 10 ppm	Cr 96 ppm	Mg% 1.97	Ba 17 ppm
	Ti% 0.06	B 56 ppm	Al% 2.92	Na% 0.08
	Si% 0.12	W 19 ppm	Be 2.0 ppm	
#3	Grab	Mafic volcanic	minor pyrite	Au 16 ppb
#4	Grab	Mafic volcanic	minor pyrite	Au 14 ppb
				13 ppb
#5	Grab	Mafic volcanic	minor pyrite	Au 25 ppb
#5A	Grab	Mafic volcanic	minor pyrite	Au 9 ppb
#6	Grab	Gabbro	minor pyrite	Au 18 ppb
#6A	Grab	Gabbro	minor pyrite	Au 17 ppb
#7	Grab	Mafic volcanic	minor pyrite	Au 8 ppb
#8	Grab	Mafic volcanic	minor pyrite	Au 9 ppb
#9	Grab	Mafic volcanic	minor pyrite	Au 6 ppb
#10	Grab	Mafic volcanic	minor pyrite	Au 10 ppb
				Pt <15 ppb
				Pd <10 ppb
		Multielement analysis		
	Mo 2 ppm	Cu 49 ppm	Pb 7 ppm	Zn 39 ppm
	Ag <0.1 ppm	Ni 32 ppm	Co 13 ppm	Mn 561 ppm
	Fe% 3.13	As 7 ppm	U n/a	Au <3 ppm
	Hg <3 ppm	Sr 11 ppm	Cd <1 ppm	Sb <2 ppm
	Bi 3 ppm	V 48 ppm	Ca% 0.24	P% 0.08
	La 17 ppm	Cr 40 ppm	Mg% 0.73	Ba 107 ppm
	Ti% 0.17	B 99 ppm	Al% 1.31	Na% 0.04
	Si% 0.01	W 3 ppm	Be 1.0 ppm	
#11	Grab	Mafic volcanic	minor pyrite	Au 12 ppb
#12	Grab	Mafic volcanic	minor pyrite	Au 12 ppb
				14 ppb
#13	Grab	Mafic volcanic	minor pyrite	Au 16 ppb
#14	Grab	Mafic volcanic	minor pyrite	Au 13 ppb
#15	Grab	Mafic volcanic	minor pyrite	Au 31 ppb
				15 ppb
#1B	Grab	Mafic volcanic	minor pyrite	Au 31 ppb
#2B	Grab	Mafic volcanic	minor pyrite	Au 7 ppb
#3B	Grab	Mafic volcanic	minor pyrite	Au 8 ppb
#4B	Grab	Mafic volcanic	minor pyrite	Au 18 ppb
#5B	Grab	Mafic volcanic	minor pyrite	Au 49 ppb
#6B	Grab	Mafic volcanic carbonated, silicified	2 to 5 % pyrite	Au 6891 ppb
				Au 6495 ppb

CERTIFICATE FOR ASSESSMENT WORK

Registered claim Holder:

Eino W. Ranta
P.O. Box 2448
Thunder Bay, Ontario
P7B 5E9

Line cutting contractor:

P. & A Nabigon
2-96 Algoma Street South
Thunder Bay, Ontario
P7B 3B5

Geophysical Surveys contractor:

G.L. Mealy
RR #1 Mining Rd
Murillo, Ontario
P0T 2G0

Report and Supervision:

Claude Larouche
Ovalbay Geological Services Inc.
1070 Lithium Drive, Unit # 1
Thunder Bay, Ontario
P7B 6G3

REFERENCE

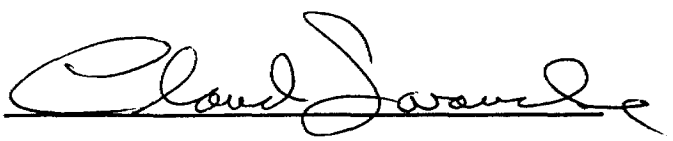
Harris F.R. (1970)
Geology of the Moss Lake Area, O.G.S. Geological Report # 85.

CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

- I am a resident of Thunder Bay, Province of Ontario, Canada (385 Riviera Drive, Thunder Bay, Ontario).
- I have been engaged in mining exploration since 1974 and have been consulting as a professional geological engineer since 1980.
- I am a graduate of Quebec University, Chicoutimi (B.Sc. Eng., 1974) and Carleton University (M.Sc. Geology, 1979).
- I am a member of the Order of Engineers of the province of Quebec and also a member of the Quebec Prospectors Association, of the Prospectors and Developers Association and of the Canadian Institute of Mining and Metallurgy.
- I have not received, directly of indirectly, or expect to receive any interest direct or indirect in the company and its properties.

Signed in Thunder Bay, Ontario, April 1992.



Claude Larouche, M.Sc., P. Eng.

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

48284

Certificate of Analysis

Eino Ranta
P.O. Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

November 29 91

Work Order # : T910947
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
555613	1-B	31	0.001	
555614	2-B	7	<0.001	
555615	3-B	8	<0.001	
555616	4-B	18	0.001	
555617	5-B	49	0.001	
555618	6-B	6891	0.201	
555618	6-B	6495	0.189	Check

Per:

LF-30

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

42195

Certificate of Analysis

Eino Ranta
P.O. Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

October 31 91

Work Order # : T910863
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
553982	5	25	0.001	
553983	5-A	9	<0.001	
553984	6	18	0.001	
553985	6-A	17	<0.001	
553986	7	8	<0.001	
553987	8	9	<0.001	
553988	9	6	<0.001	
553989	10	Sample Missing		
553990	11	12	<0.001	
553991	12	12	<0.001	
553991	12	14	<0.001	Check
553992	13	16	<0.001	
553993	14	13	<0.001	
553994	15	31	0.001	
553994	15	15	<0.001	Check

Per: Blaine Wright

LF-30

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

41953

Certificate of Analysis

Eino Ranta
P.O. Box 2448
THUNDER BAY, ON
P7B 5E9

October 07, 1991

Work Order #: T910718

ELEMENT	Unit	SAMPLE NUMBER #10
Mo	ppm	2
Cu	ppm	49
Pb	ppm	7
Zn	ppm	39
Ag	ppm	<0.1
Ni	ppm	32
Co	ppm	13
Mn	ppm	561
Fe	%	3.13
As	ppm	7
U	ppm	N/A
Au	ppm	<3
Hg	ppm	<3
Sr	ppm	11
Cd	ppm	<1
Sb	ppm	<2
Bi	ppm	3
V	ppm	48
Ca	%	0.24
P	%	0.08
La	ppm	17
Cr	ppm	40
Mg	%	0.73
Ba	ppm	107
Ti	%	0.17
B	ppm	99
Al	%	1.31
Na	%	0.04
Si	%	0.01
W	ppm	3
Be	ppm	1.0

Per:

LF-30

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

42060

Certificate of Analysis

Eino Ranta
P.O. Box 2448
THUNDER BAY, ON
P7B 5E9

October 21, 1991

Work Order #: T910780

ELEMENT	Unit	SAMPLE NUMBER #2
Mo	ppm	2
Cu	ppm	85
Pb	ppm	7
Zn	ppm	96
Ag	ppm	0.90
Ni	ppm	90
Co	ppm	36
Mn	ppm	1248
Fe	%	7.20
As	ppm	6
U	ppm	N/A
Au	ppm	<3
Hg	ppm	<3
Sr	ppm	31
Cd	ppm	<1
Sb	ppm	14
Bi	ppm	<3
V	ppm	68
Ca	%	3.99
P	%	0.10
La	ppm	10
Cr	ppm	96
Mg	%	1.97
Ba	ppm	17
Ti	%	0.06
B	ppm	56
Al	%	2.92
Na	%	0.08
Si	%	0.12
W	ppm	19
Be	ppm	2.0

Per: L Beaulant

LF-30

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

41987 # Certificate of Analysis

Eino Ranta
P.O. Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

October 9 91

Work Order # : T910780
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
552488	1	24	0.001	
552489	2	10	<0.001	
552490	3	16	<0.001	
552491	4	14	<0.001	
552491	4	13	<0.001	Check

Per: Blaine Smith

LF-30

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

41851 **Certificate of Analysis**

Eino Ranta
P.O. Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

September 25 91

Work Order # : T910718
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	Platinum ppb	Palladium ppb	
551513	10	10	<0.001	<15	<10	
551513	10	10	<0.001	<15	<10	Check

Per:

LF-30

ORIGINAL

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9240-121

Personal information collected on this form is obtained under the authority of the Mining this collection should be directed to the Provincial Manager, Mining Lands, Ministry Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

52B10SE0171 2.14625 MOSS

900

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s): EINO W. RANTA		Client No.: 185853
Address: P.O BOX 2448 THUNDER BAY ONT P7B 5E9		Telephone No.: 767-5101
Mining Division: THUNDER BAY	Township/Area: MOSS TOWNSHIP	M or G Plan No.: G-676
Dates Work Performed — From: MAY 1ST 1991	To: DECEMBER 30TH 1991	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	MAGNETIC + ELECTROMAGNETIC VLF-EM 16
	Physical Work, Including Drilling	PROSPECTING
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

RECEIVED
JUN 19 1992
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ 10,000.00

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
G.L MEALY	RR#1 MINING Rd MURILLO ONT P0T2G0
P+A NABIGON	2-96 ALGOMA ST SOUTH THUNDER BAY P7B 3B5
CLAUDE LAROUCHE	385 BOX H-9 RIVIERA dr THUNDER BAY P7B6K2

(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: APR 28TH/92 — 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: CLAUDE LAROUCHE 385 Box H-9 RIVIERA dr THUNDER BAY P7B6K2

Telepone No.: 807 (768-0786) — Date: APRIL 28TH 1992 — Certified By (Signature):

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
10,000	May 28/92	M.A. Weiman	RECEIVED MINING LANDS BRANCH THUNDER BAY ONTARIO
	Deemed Approval Date: Aug. 28/92	Date Approved	
	Date Notice for Amendments Sent		

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	1164874	1	2500	400		2100
	1164875	1	2500	400		2100
	1164876	1	2500	400		2100
	1164877	1	2500	400		2100
	4		10000	1600		8400
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

RECEIVED
JUN 19 1992
MINING LANDS BRANCH

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

1. ☐ Credits are to be cut back starting with the claim 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 attached appendix.

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

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, 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

0241 (03/91)

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: W9240-121

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	6792.24	
	Field Supervision Supervision sur le terrain		6792.24
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Report	849.95	
	Assays	453.68	
			1303.63
Supplies Used Fournitures utilisées	Type Explosives	278.30	
			278.30
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		8374.17

RECEIVED
JUN 19 1992
MINING LANDS BRANCH

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 Road	1415.40	
	4718 km @ 0.30		
			1415.40
Food and Lodging Nourriture et hébergement	Food	210.43	210.43
Mobilization and Demobilization Mobilisation et démobilisation		—	—
	Sub Total of Indirect Costs Total partiel des coûts indirects		1625.83
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
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)**			10,000.00

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 =	

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 Recorded Holder (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
X	

0212 (04/93)

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

Mining Lands Branch
Geoscience Approvals Section
Willet Green Miller Centre
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

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

Our File: 2.14625
Transaction #: W9240.121

October 9, 1992

Mining Recorder
Ministry of Northern Development
and Mines
435 James Street South
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Sir:

RE: APPROVAL OF GEOPHYSICAL AND PROSPECTING SURVEYS COMPLETED ON MINING CLAIMS TB 1164874 ET AL. IN MOSS TOWNSHIP.

The deficiencies in this submission, as outlined in the Notice of Deficiency dated August 26, 1992 have been rectified.

The assessment work credits listed on the original submission have been approved as of October 7, 1992.

If you have any questions please contact Dale Messenger at (705) 670-5858.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

DEM/jl
Enclosures:

cc: Assessment Files Office
Toronto, Ontario

Resident Geologist
Thunder Bay, Ontario

ACCURASSAY LABORATORIES
A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
Box 426, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J1

TEL.: (705) 567-3361 - FAX: (705) 568-8368

792038

Eino Ranta
P.O.Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

DATE	December 5, 1991
CUSTOMER ORDER N°	
WORK ORDER N°	T910947
DATE SUBMITTED	

TERMS

net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
6	Gold Assays W.O. #T910947	7.75	46 50
6	Sample Prep. cert.# 48284	3.75	22 50
	Sub-total.....		69 00
	7 % GST # R121844088		4 83
	Amount due before January 4, 1992.....		73 83

Please note: Accounts more than 45 days past due will lose any price discounts

1297

Thank You!

ACCURASSAY LABORATORIES
A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
Box 426, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J1

TEL.: (705) 567-3361 - FAX: (705) 568-8368

INVOICE

792004

DATE: November 21, 1991
CUSTOMER ORDER N°:
WORK ORDER N°: T910863
DATE SUBMITTED:

Eino Ranta
P.O.Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

TERMS

net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
12	Gold Assays W.O. #T910863	7.75	93 00
12	Sample Prep. cert.# 42195	3.75	45 00
	Sub-total.....		138 00
	7 % GST # R121844088		9 66
	Amount due before December 21, 1991.....		147 66

Please note: Accounts more than 45 days past due will lose any price discounts

F-1297

Thank You!

ACCUTASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 426, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J1

TEL.: (705) 567-3361 - FAX: (705) 567-8368

INVOICE

791925

DATE: September 26, 1991
CUSTOMER ORDER N°:
WORK ORDER N°: T910718
DATE SUBMITTED:

Eino Ranta
P.O.Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

TERMS
net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	Gold, Platinum, Palladium Assays	14.25	14 25
1	Sample Prep. cert.# 41851	3.75	3 75
	Sub-total.....		18 00
	7 % GST # R121844088		1 26
	Amount due before October 26, 1991.....		19 26

Please note: Accounts more than 45 days past due will lose any price discounts

LF-1297

Thank You!

ACCU[redacted]SSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 426, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J1

TEL.: (705) 567-3361 - FAX: (705) 567-8368

43442

INVOICE

791977

TO

Eino Ranta
P.O.Box 2448
THUNDER BAY, ONTARIO
P7B 5E9

DATE	October 30, 1991
CUSTOMER ORDER N°	
WORK ORDER N°	T910780
DATE SUBMITTED	

TERMS

net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	Multielement Analysis	7.50	7 50
4	Gold Assays W.O. #T910780	7.75	31 00
4	Sample Prep. cert.# 41987	3.75	15 00
1	Multielement Analysis	7.50	7 50
12	Gold Assays W.O. #T910863	7.75	93 00
12	Sample Prep. cert.# 42184	3.75	45 00
	Sub-total.....		199 00
	7 % GST # R121844088		13 93
	Amount due before November 29, 1991.....		212 93

Please note: Accounts more than 45 days past due will lose any price discounts

LF-1297

Thank You!

REFERENCES

TILLY LAKE G-562

BURCHELL LAKE

A M E S G-642

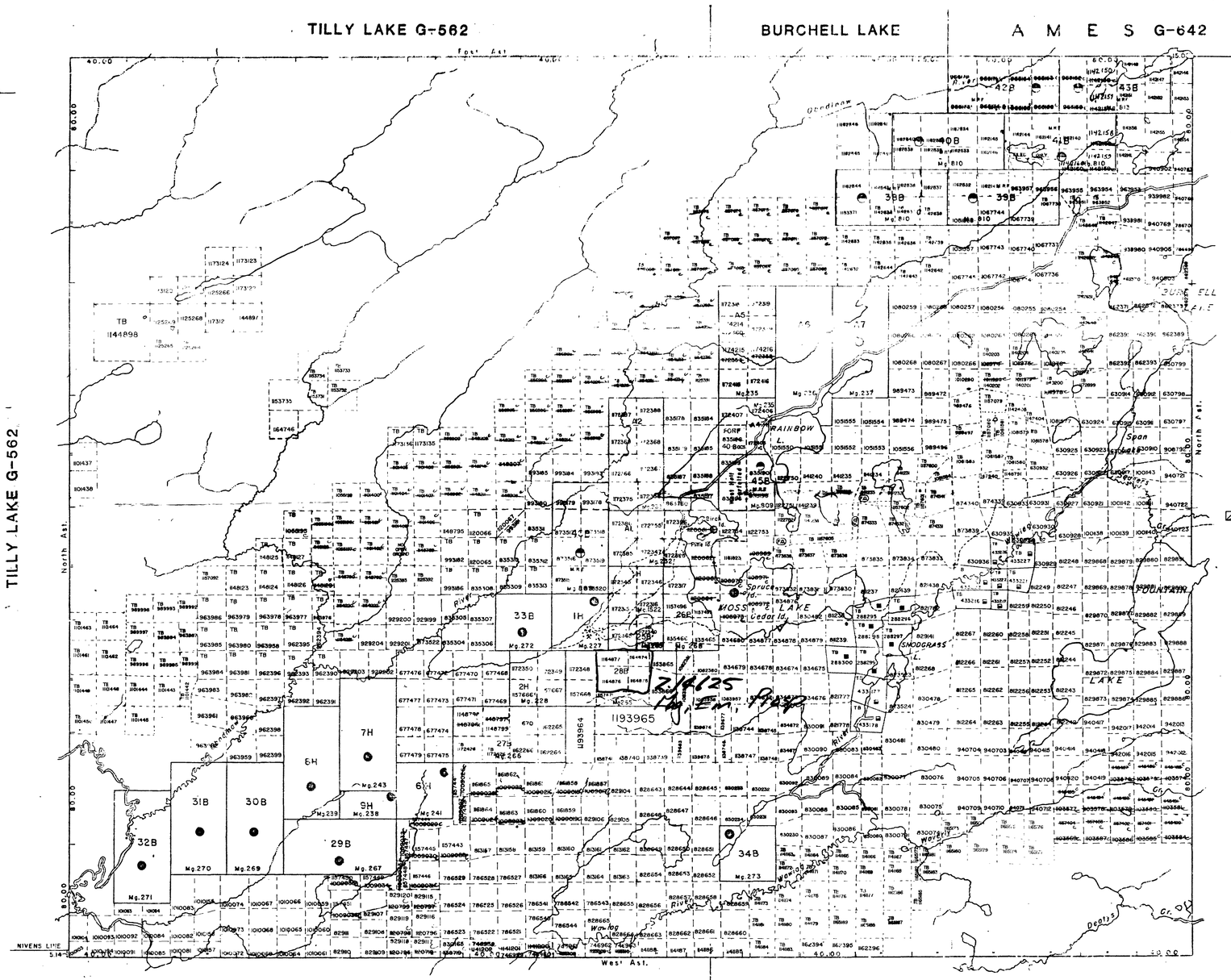
TILLY LAKE G-562

BURCHELL LAKE G-706

POWELL LAKE G-549

NILSON LAKE

NORTH ASTRONOMIC



NIVENS LINE

REFERENCES

DESCRIPTION	ORDER NO.	DATE	DISPOSITION
(4) SEC. 36/90	W-ML 1/90,	MARCH/2078;	SMP.

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.

(FO) FILED ONLY APPLICATION TO RECORD

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 TOURIST OUTFITTING 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. 68, SUBSECT. 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 400 1000 2000 (1 KM) (2 KM)

TOWNSHIP

MOSS

M.N.R. ADMINISTRATIVE DISTRICT

THUNDER BAY

MINING DIVISION

THUNDER BAY

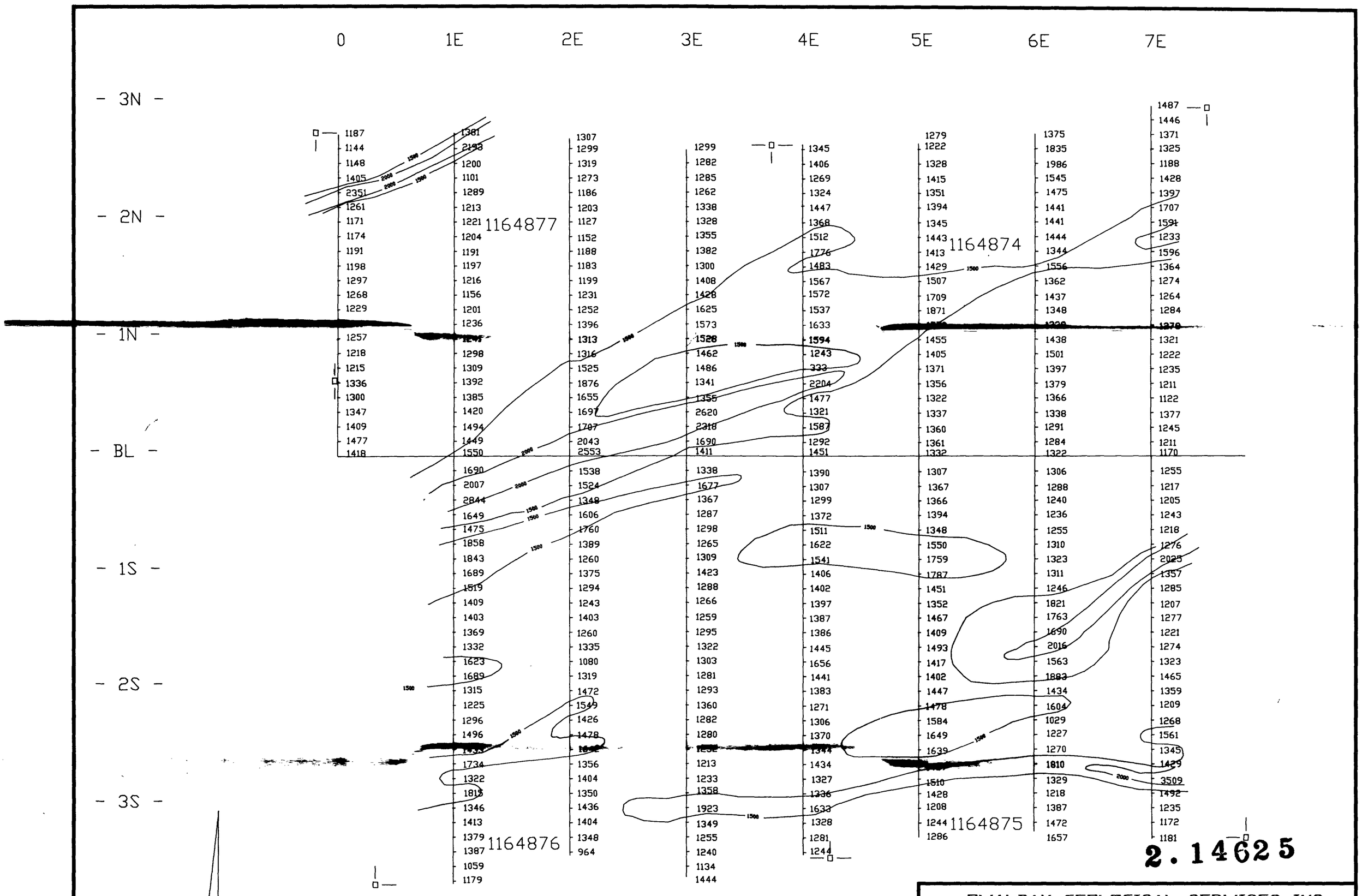
LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ontario Ministry of Natural Resources — Land Management Branch

Date: MARCH 1982

Number: G-676



MAGNETOMETER SURVEY

INSTRUMENT: SCINTREX MP 2 PROTON MAG
BASE STATION: BASE & CROSS LINE INTERCEPTS
CONTOUR INTERVAL: 500S

2.14625

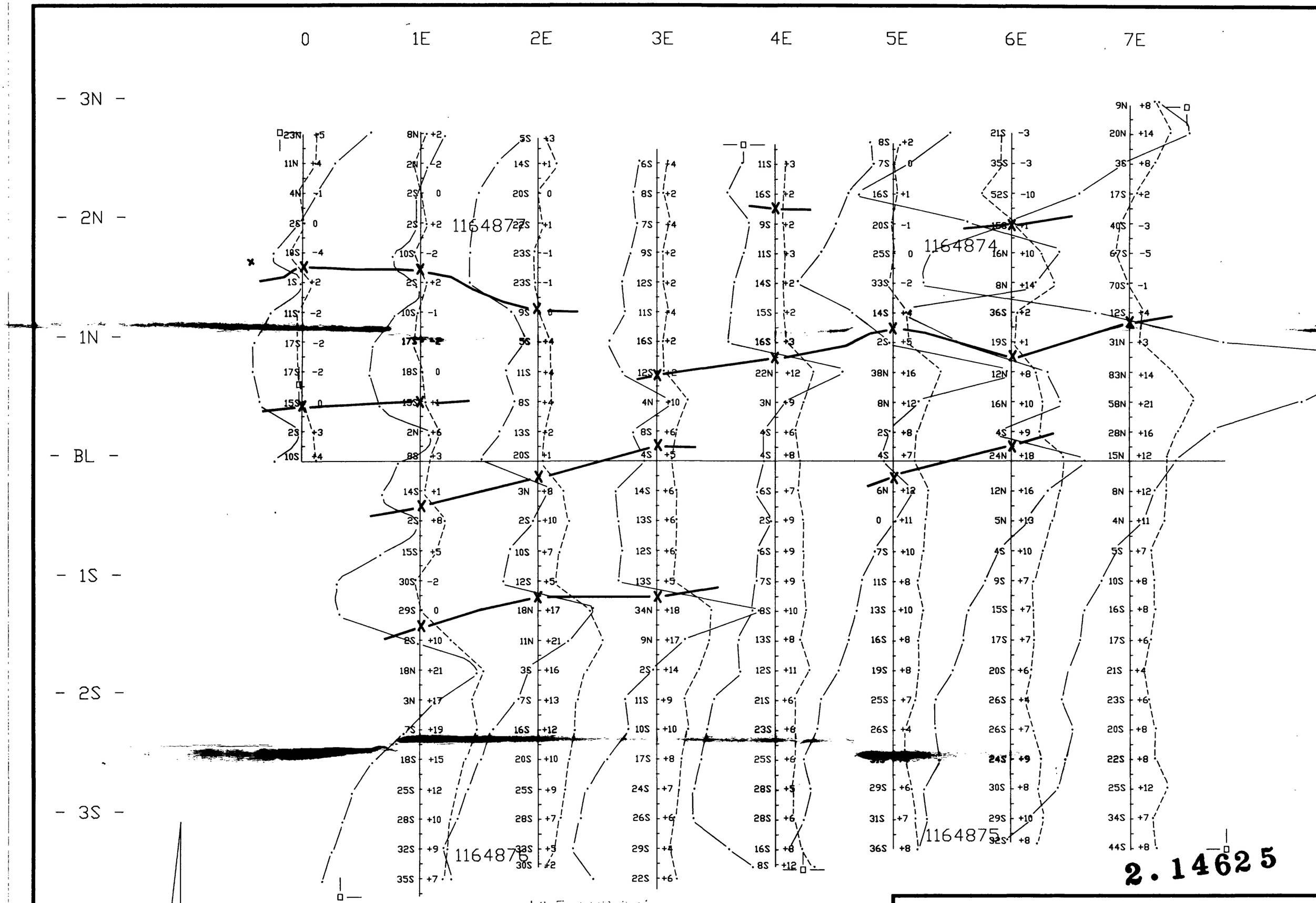
OVALBAY GEOLOGICAL SERVICES INC.

RANTA PROPERTY

MOSS TOWNSHIP

MAG SURVEY

C. LAROUCHE	SCALE 1:2500	JAN 1992



VLF SURVEY

INSTRUMENT: GEONICS EM16

STATION: CUTLER ME. 24.0 KHz.

SCALE: 1cm = 10%

CONDUCTOR AXIS — —

S. ⊖ | ⊕ N.

2.14625

OVALBAY GEOLOGICAL SERVICES INC.

RANTA PROPERTY

MOSS TOWNSHIP

VLF SURVEY

CLAUDE LAROUCHE	SCALE 1:2500	JANUARY 1992

0 1E 2E 3E 4E 5E 6E 7E

- 3N -
- 2N -
- 1N -
- BL -
- 1S -
- 2S -
- 3S -

1164877

1164874

1164876

1164875

2000 1500 2000 1500

1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 2000 1500 1500 2000 1500

1 2 3 4 5 6 7 8

N

2.14625

OVALBAY GEOLOGICAL SERVICES INC.

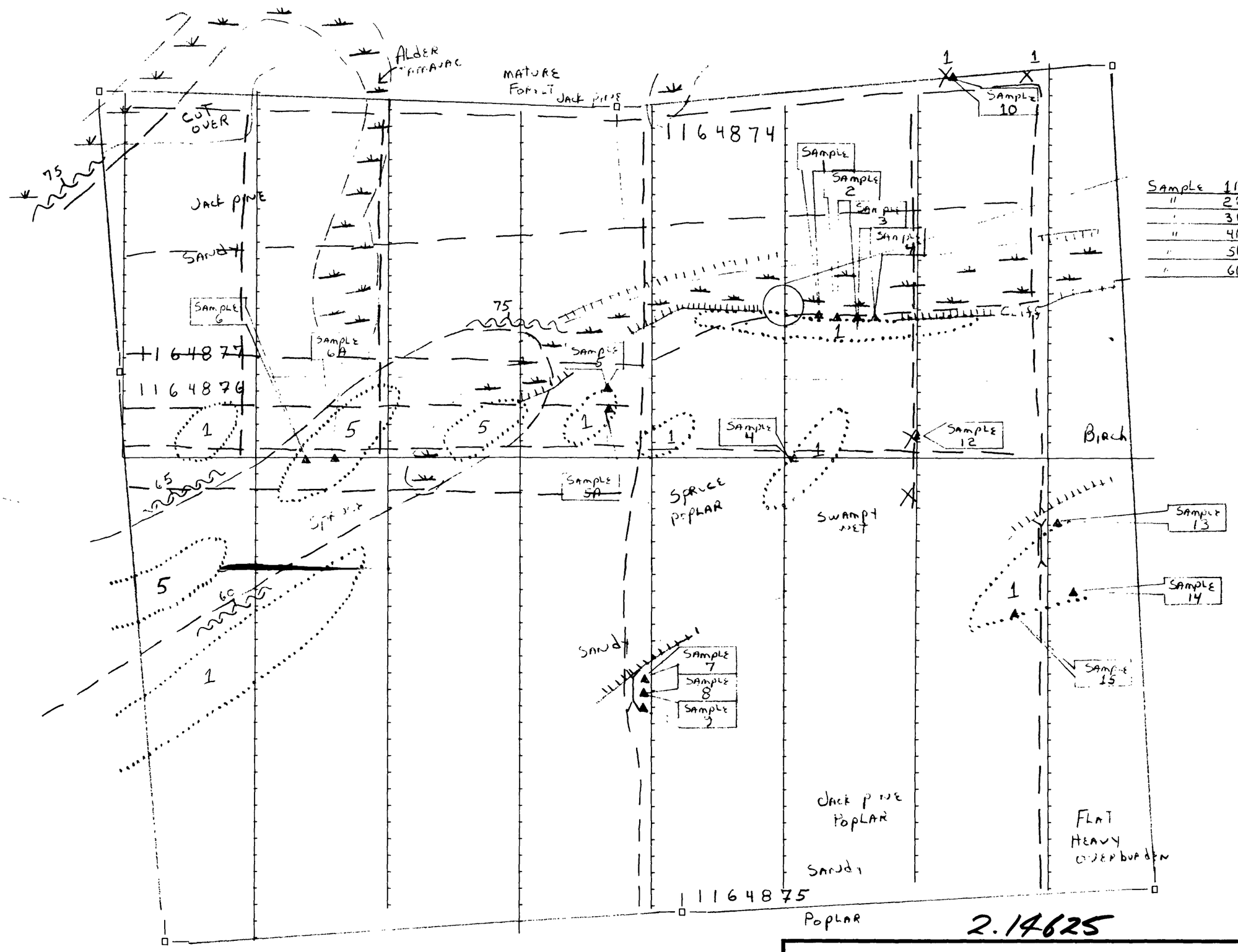
RANTA PROPERTY

MOSS TOWNSHIP

COMPILATION

CLAUDE LAROUCHE	SCALE 1:2500	JANUARY 1992

52B10SE0171 2.14625 MOSS



2.14625

RANTA PROPERTY

MOSS TOWNSHIP

GEOLOGY — SAMPLE LOCATION

CLAUDE LAROUCHE	SCALE 1:2500	JAN 1992