



41N13SW0001 2.8487 MICHIPICOTEN ISLAND

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REPORT ON EXPLORATION

ON

MICHIPICOTEN ISLAND - L.O. 14905

BY

NEARTIC RESOURCES INC.

July 5, 1985

Fenton Scott, P.Eng.

PROPERTY

The area explored comprises the west portion of License of Occupation 14905 on Michipocoten Island issued to Neartic Resources.

METHOD OF WORK

The initial exploration consisted of reconnaissance "B" horizon soil geochemical sampling at 100 foot intervals on north-south paced and compass lines spaced 660 feet apart. Soil samples were dried, screened, and analysed for trace amounts of copper by Assayers Limited of Toronto.

The second exploration stage consisted of further "B" soil sampling along flagged lines spaced 100 feet apart covering large areas which had shown anomalously high copper values in the initial reconnaissance sampling. These samples were also taken from a flagged pace and compass grid.

Based on the results of the geochemical sampling, a grid of cut lines was put in to cover a selection of areas of ~~higher-than-normal~~ copper values. Frequency-Domain Induced Potential and Apparent Resistivity surveys were run over areas which had a higher than background soil copper content. Magnetometer and VLF - Em Surveys were also run over selected lines.

Polarization

After a review of the results of the geochemical sampling, a program of evaluation was undertaken. The anomalous areas were identified and investigated by means of surface prospecting, power stripping, and diamond drilling.

RESULTS

The geochemical survey located 20 areas with elevated copper values in the "B" horizon soils. Two of these areas, one designated "L" near the former "Quebec Mines" workings and "C-4" near an old shaft indicated that bedrock copper mineralization is reflected in the copper content of the overlying soils.

The background copper values are generally high, up to 60 ppm over basaltic rocks and up to 100 ppm over areas of interpreted surficial concentration. Over the coarser-grained sedimentary rocks, conglomerates and sandstones, the copper background is 25 ppm or less.

For presentation purposes the maps show six categories of values:

0 - 60 ppm	Background
61 - 100 ppm	High background
101 - 140 ppm	Weakly anomalous
141 - 180 ppm	Anomalous
181 - 300 ppm	Definitely anomalous
300 ppm plus	Strongly anomalous

Geochem
↙

I.P. SURVEY

The rocks beneath the survey area are characterized by a high background of _____ per cent frequency effect and a low apparent resistivity. These are interpreted as the effect of clay minerals and fine iron oxides in the underlying basalts, amygdaloids, and sediments.

~~resistivity~~
#

The interpretation of the individual lines follows. All lines were survey with a dipole - dipole array, with 100 foot electrode separations. Readings were taken to a spread of N 4.

Line 6 W

No significant anomalies.

Line 14 W

A decrease in resistivity with depth from 100 S to 400 S may reflect a specific bedrock feature.

Line 18 W

The decrease in resistivity with depth, and coincident rise in frequency between 300 S and 500 S suggests a concentration of metallics in bedrock.

Line 22 W

A probable I.P. anomaly is interpreted from 300 S to 500 S, similar to line 18 W.

Line 28 W

The coincidence of a slight resistivity drop with a slight rise in chargeability between 900 S and 1100 S has been interpreted as a possible anomaly. No characteristic response was obtained over the old shaft, other than a nearby drop in resistivity.

Line 35 W

Resistance drops have been interpreted as a possible anomaly between 400 S and 500 S and a definite, buried anomaly between 700 S and 900 S.

Line 4900 W

A decrease in resistance with depth in already low ground from 300 S to 600 S may be a bedrock or groundwater effect.

A probable anomaly marked by moderate increase in frequency effects and moderate reduction in resistivity occurs from 500 N to 700 N.

A definite anomaly, about 1.5 times F.E. background runs from 1000 N to 1200 N

A narrow resistance low on all separations from 1400 N to 1500 N has coincident frequency effect rise.

Line 54 W

The wide, low resistance sections from 0 to 200 S and 400 S to 700 S may be related to the low ground in the vicinity.

Probable conductors marked by slight increases in P.F.E. and lower resistance are interpreted at 400 N to 600 N and 1600 N to 1800 N.

Line 60 W

The low resistance from 200 S to 400 S may be groundwater effect.

A definite anomaly is interpreted from 300 N to 500 N.

A 50% increase in P.F.E. accompanies a possible resistance drop from 1400 N to 1600 N.

Line 64 W

High P.F.E.'s exist for most of the surveyed line.

Lower resistances were noted from 900 N to 1000 N (narrow, shallow) and 1500 N to 1700 N (deeper- to N 4).

Line 67 W

A probable to definite, wide, bedrock anomaly exists from 1200 N to 1400 N.

DIAMOND DRILLING

Seven diamond drill holes for a total of 2043 feet of BQ wireline drilling were completed to test geochemical and geophysical highs. No economic copper values were obtained.

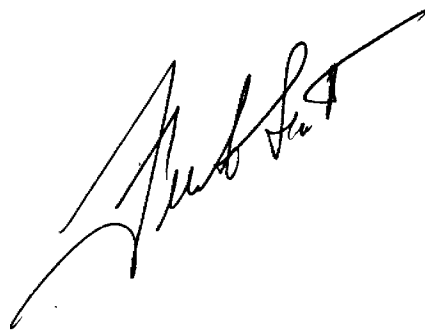
VLF SURVEY

Using transmitter at Cutler (24.0 K Hz). A limited VLF survey was run over the cut lines.

No strong, linear conductors were obtained. The moderate conductor axes are shown on the enclosed map. These are interpreted as bedrock features of limited extent, possibly scarps.

MAGNETOMETER SURVEY

The limited magnetic survey showed the area to have sharp, magnetic features, without major regional trends. The magnetic highs are interpreted as original magnetite content in the less oxidized portions of the basaltic rocks.

A handwritten signature in black ink, appearing to read "R. L. Smith", is written diagonally across the lower right portion of the page.

LIST OF ATTACHMENTS

Geochemical Analyses

Geochemical Results - 1" = 400'

Schafer Bay Area

Quebec Mine Area

Northwest Area

Geochemical Results - 1" = 200'

Schafer Bay Area

Quebec Mine Area

I.P. Survey (Map and 11 Sections)

Magnetometer Survey

VLF Survey

Diamond Drill Logs



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Certificate of Analysis

COPPER PLOTTED
F. SCOTT

Certificate No. NA-07/ #3332

Date: August 17, 1984

Received 89 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. J. Hamilton
c.c. Mr. Fenton Scott

Sample No.	Ag ppm	Cu ppm	BaSO ₄ ppm
L52 +50W 9+00S	1.6	39	312
9+50S	2.2	145	292
10+00S	.8	50	741
10+50S	.4	44	858
11+00S	.7	43	468
11+50S	.8	34	399
12+00S	122	23	585
12+50S	1.6	12	400
13+00S	1.3	10	507
13+50S	2.2	80	546
14+00S	.5	22	526
L52 +50W 14+50S	.9	28	507
L53W 8+50S	1.1	49	507
9+00S	.8	18	585
9+50S	1.4	44	800
10+00S	2.2	42	897
10+50S	.3	36	409
11+00S	.8	45	370
11+50S	1.7	30	429
L53W 12+00S	.5	22	448

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J. van Engelen Mgr.



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Samples of Soils

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Att'n: Mr. J. Hamilton

c.c. Mr. Fenton Scott

Sample No.	Ag ppm	Cu ppm	BaSO ₄ ppm
L53W 12+50S	<.1	11	331
13+00S	.2	24	390
13+50S	.8	26	419
14+00S	.8	32	390
L53W 14+50S	<.1	13	468
L53+50W 9+50S	1.1	179	1248
10+00S	2.1	272	867
10+50S	1.3	74	780
11+00S	.7	27	1072
11+50S	.7	29	809
12+00S	.4	25	747
12+50S	<.1	14	633
L53W+50 13+00S	1.1	25	877
L54W 9+50S	<.1	33	926
10+00S	.8	82	994
10+50S	.6	35	1179
11+00S	2.4	890	1628
11+50S	.4	35	1138
12+00S	.3	45	1312
12+50S	.6	25	1061
L54W 13+00S	.3	31	1273

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Submitted by Nearctic Resources Limited Att'n: Mr. J. Hamilton
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Sample No.	Ag ppm	Cu ppm	BaSO ₄ ppm
L54+50W 9+50S	.3	30	868
10+00S	.3	30	791
10+50S	.5	31	849
11+00S	.1	17	945
11+50S	1.4	163	868
12+00S	1.1	30	943
12+50S	.5	32	1119
13+00S	.6	27	1138
13+50S	.5	38	965
L54+50W 14+00S	.9	24	746
L55W 9+50S	.4	27	424
10+00S	.6	27	560
10+50S	.2	15	606
11+00S	1.0	24	513
11+50S	1.2	312	714
12+00S	.8	33	816
12+50S	.8	35	1237
13+00S	1.2	27	933
13+50S	.4	26	907
L55W 14+00S	1.8	35	583
L56W 10+00S	.6	25	630

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Certificate of Analysis

Certificate No. NA-07/04/#3333

Date: August 17, 1984

Received 89 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. J. Hamilton
c.c. Mr. Fenton Scott

Sample No.	Ag ppm	Cu ppm	BaSO ₄ ppm
L56W 10+50S	.5	26	309
11+00S	.7	35	636
11+50S	1.1	188	656
12+00S	.8	110	772
12+50S	.6	132	656
13+00S	.2	38	965
13+50S	.4	27	347
L56W 14+00S	<.1	27	501
L56W+50 10+00S	.5	74	1138
10+50S	<.1	17	444
11+00S	<.1	42	772
11+50S	<.1	24	617
12+00S	<.1	27	675
12+50S	.3	295	386
13+00S	.4	27	424
13+50S	<.1	27	733
L56+50W 14+00S	.4	52	501
L57W 10+50S	.2	27	289
11+00S	<.1	25	290
L57W 11+50S	1.1	169	482

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c.c. Mr. Fenton Scott

Sample No.	Ag ppm	Cu ppm	BaSO ₄ ppm
L57W 12+00S	23.3	30	521
12+50S	.6	56	965
13+00S	.4	36	443
13+50S	.8	22	849
14+00S	.7	19	463
14+50S	.4	18	579
15+00S	.4	16	887

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Certificate of Analysis

Certificate No. NA-06/01/ #3826

Date: August 15, 1984

Received Aug 10/84 55 Samples of Soil

Submitted by Nearctic Resources Limited Attention: Mr. John Hamilton
c.c. Mr. Fenton Scott

Sample No.	Ag ppm	Cu ppm	Sample No.	Ag ppm	Cu ppm
L28N 0E	1.3	119	L28N 20E	2.0	10
1E	.7	100	QL28N 0W	2.7	40
2E	1.1	48	1W	1.9	59
3E	.4	51	2W	2.2	50
4E	.6	107	3W	2.2	26
5E	.6	104	4W	2.0	35
6E	<.1	55	5W	1.3	34
7E	1.1	38	6W	2.2	55
8E	.9	44	7W	1.1	40
9E	1.1	64	8W	1.8	39
10E	.6	41	9W	1.9	31
11	.6	39	10W	1.7	238
12	<.1	29	11W	1.7	57
13	.2	35	QL28N 12W	<.1	19
14	<.1	40	Q32N 0+00E	1.6	57
15	<.1	12	1+00E	<.1	15
16	<.1	17	2+00E	.2	23
17	.4	32	3+00E	.4	39
18	<.1	9	4+00E	.3	33
L28N 19 E	<.1	12	Q32N 5+00E	.5	49

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Certificate of Analysis

Certificate No. NA-06/02/ #3326 Date: August 15, 1984
Received Aug 10/84 55 Samples of Soil
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton
c.c. Mr. Fenton Scott

Sample No.	Ag ppm	Cu ppm
Q32N 6+00E	.3	51
7+00E.	.5	52
8+00E	.6	42
9+00E	.5	30
10+00E	<.1	23
11+00E	.7	34
12+00E	.8	40
13+00E	.7	38
14+00E	<.1	6
15+00E	<.1	6
16+00E	<.1	12
17+00E	<.1	14
18+00E	<.1	10
19+00E	<.1	12
Q32N 20+00E	.5	42

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Certificate of Analysis

Certificate No. NA-06/03/ #3326

Date: August 15, 1984

Received Aug 10/84 5 Samples of Drill Core

Submitted by Nearctic Resources Limited Attention: Mr. John Hamilton
c.c. Mr. Fenton Scott

Sample No.	Ag ppm	Cu ppm
2611	-	155
2612	-	365
2613	1.2	627
2614	1.3	136
2615	1.3	239

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Certificate of Analysis

Certificate No. NA-04/01/ #3244

Date: July 16, 1984

Received July 10/84 71

Samples of Soils & Rocks

Submitted by Nearctic Resources Ltd.

Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Sample No.	Ag ppm	Cu ppm
QM - 68	.2	153	QM - 93	<.1	3
69	.3	92	94	.4	10
70	.3	11	95	.5	11
71	<.1	6	96	<.1	64
72	.3	9	97	.7	200
73	.6	29	98	1.5	156
74	.7	30	99	.1	115
75	1.2	27	100	1.3	20
76	2.0	30	101	<.1	5
77	1.6	16	102	.5	60
78	.8	19	103	1.2	17
79	1.2	33	104	.7	22
80	1.4	140	105	1.0	21
86	1.1	28	106	.9	25
87	1.7	25	107	2.0	13
88	.8	22	108	2.5	24
89	.7	18	109	3.2	13
90	.1	22	110	7.6	8
91	.9	26	111	3.5	17
QM - 92	.1	13	QM - 112	2.9	27

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Certificate of Analysis

Certificate No. NA-04/02/ #3244

Date: July 16, 1984

Received July 10/84 71 Samples of Soils & Rocks

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Sample No.	Cu ppm
QM - 113	1.5	19	2601	120
114	1.1	42	2602	1130
115	.9	35	2603	62
116	.8	22	2604	41
117	1.3	24	2605	112
118	1.4	65	2606	99
119	.8	41	2607	823
120	1.0	84	2610	94
121	2.0	27		
122	.7	115	2608	76.64 % Ba as BaSO ₄
123	1.5	79		
124	2.0	113	2609	.05 oz/ton Ag
125	1.9	37		
126	3.1	73		
127	1.3	16		
128	1.8	15		
129	1.7	29		
130	1.3	43		
131	1.3	93		
132	<.1	129		
QM - 133	.1	130		

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Certificate of Analysis

Certificate No. NA-03-1/ #3197

Date: June 28, 1984

Received June 26/84 65 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Sample No.	Ag ppm	Cu ppm
QM 1	.4	353	QM 21	<.1	9
2	.2	150	22	<.1	18
3	.4	67	23	<.1	15
4	.1	46	24	.2	23
5	<.1	119	25	<.1	16
6	.2	81	26	<.1	25
7	<.1	85	27	<.1	14
8	<.1	22	28	<.1	26
9	<.1	11	30	<.1	12
10	<.1	21	31	<.1	23
11	.6	30	32	<.1	31
12	<.1	28	33	<.1	63
13	<.1	31	34	<.1	37
14	.2	20	35	<.1	37
15	<.1	15	36	<.1	45
16	<.1	19	37	<.1	33
17	<.1	14	38	.1	78
18	<.1	12	39	<.1	137
19	<.1	26	40	<.1	151
QM 20	<.1	21	QM 41	.1	75

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Certificate of Analysis

Certificate No. NA-03-03/ #3197

Date: June 28, 1984

Received June 26/84 65 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Sample No.	Ag ppm	Cu ppm
QM 42	<.1	31	QM 62	<.1	3
43	<.1	128	63	<.1	7
44	<.1	29	64	<.1	9
45	<.1	35	66	<.1	7
46	<.1	58	QM 67	<.1	11
47	<.1	35			
48	<.1	30			
49	<.1	17			
50	<.1	30			
51	<.1	28			
52	<.1	37			
53	<.1	118			
54	<.1	35			
55	<.1	81			
56	<.1	27			
57	<.1	18			
58	<.1	14			
59	<.1	16			
60	<.1	13			
QM 61	<.1	3			

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Certificate of Analysis

Copy for Fenton Scott

Plotted Plate ① JHT

Certificate No. NA-02-01/ #3116

Date: June 11, 1984

Received June 4/84 186

Samples of Soils

Submitted by Nearctic Resources Ltd.

Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Ni ppm	Sample No.	Ag ppm	Cu ppm	Ni ppm
L65W 6S	<.1	25	36	L66W 14S	<.1	2	9
7S	<.1	52	21	15S	<.1	2	7
8S	<.1	29	23	16S	<.1	14	8
9S	.3	36	68	17S	.6	16	116
10S	.5	189	48	18S	.5	20	102
11S	.3	40	85	19S	.3	48	95
12S	<.1	10	7	L66W 20S	.2	15	126
13S	<.1	4	19	L67W 10S	.1	10	23
14S	<.1	12	11	10aS	<.1	15	17
15S	<.1	4	7	11S	.5	50	122
16S	<.1	2	5	11aS	<.1	9	5
17S	.4	24	43	12S	<.1	4	12
18S	.3	46	70	12aS	.6	159	19
19S	<.1	16	17	13S	<.1	21	13
L65W 20S	<.1	20	86	14S	<.1	2	7
L66W 9S	<.1	10	50	15S	.2	11	8
10S	<.1	617	16	16S	.9	12	20
11S	<.1	9	8	17S	.7	77	40
12S	<.1	22	7	18S	.6	43	103
L66W 13S	<.1	19	6	L67W 19S	.2	39	36

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J. van Engelen Mgr.



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Certificate of Analysis

Certificate No. NA-02-03/ #3116

Date: June 11, 1984

Received June 4/84 186

Samples of Soils

Submitted by Nearctic Resources Ltd.

Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Ni ppm	Sample No.	Ag ppm	Cu ppm	Ni ppm
L67W 20S	.1	30	44	L69W 19S	<.1	18	24
L68W 10S	<.1	67	29	L69W 20S	<.1	74	30
11	<.1	41	25	L70W 11S	<.1	17	4
12	<.1	18	15	12S	<.1	15	7
13	<.1	19	10	13S	<.1	11	15
14	<.1	41	30	15S	<.1	14	24
15	<.1	31	10	16S	<.1	16	15
16	<.1	20	3	17S	<.1	12	2
17	<.1	17	10	18S	<.1	11	20
18	<.1	23	16	19S	<.1	15	62
19	<.1	28	6	L70W 20S	<.1	16	26
L68W 20	<.1	16	53	L71W 12S	.9	11	2
L69W 11	<.1	90	18	13S	<.1	8	7
12	.3	50	27	14S	<.1	9	10
13	<.1	101	28	15S	<.1	9	8
14	<.1	20	9	16S	<.1	22	115
15	<.1	73	18	17S	<.1	18	33
16	.4	88	45	18S	<.1	21	15
17	<.1	18	8	19S	<.1	11	21
L69W 18	<.1	20	14	L71W 20S	<.1	32	55

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Samples of Soils

Submitted by Nearctic Resources Ltd.

Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Ni ppm	Sample No.	Ag ppm	Cu ppm	Ni ppm
L72W 12S	<.1	27	24	L74W 13S	<.1	10	11
13S	<.1	9	13	14S	<.1	11	21
14S	<.1	5	10	15S	<.1	16	65
15S	<.1	30	20	16S	<.1	11	21
16S	<.1	16	9	17S	<.1	6	7
17S	<.1	12	20	18S	<.1	16	52
18S	<.1	14	45	19S	<.1	7	4
19S	<.1	5	13	L74W 20S	<.1	13	11
L72W 20S	<.1	71	32	L75W 12S	<.1	1	2
L73W 12S	<.1	10	6	13S	<.1	4	8
13S	<.1	18	29	14S	<.1	5	3
14S	<.1	14	8	15S	<.1	156	20
15S	<.1	27	32	16S	<.1	7	17
16S	<.1	7	23	17S	<.1	18	9
17S	<.1	9	15	18S	<.1	11	8
18S	<.1	12	10	19S	<.1	11	12
19S	*	8	25	L75W 20S	<.1	58	21
L73W 20S	<.1	14	4	L76W 12S	<.1	4	2
L74W 11S	<.1	15	1	13S	<.1	3	1
L74W 12S	<.1	2	5	L76W 14S	<.1	15	13

*Attained Values

500
<.1
3.8

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ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. NA-02-07/ #3116

Date: June 11, 1984

Received June 4/84 186

Samples of Soils

Submitted by Nearctic Resources Ltd.

Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Ni ppm	Sample No.	Ag ppm	Cu ppm	Ni ppm
L76W 15S	<.1	28	16	L78W 18S	<.1	4	29
16S	<.1	15	21	19S	<.1	7	8
17S	<.1	20	23	L78W 20S	<.1	2	7
18S	.2	80	24	L79W 13S	<.1	28	5
19S	.4	57	44	14S	<.1	38	9
L76W 20S	<.1	38	33	15S	<.1	10	15
L77W 12S	<.1	2	5	16S	<.1	2	8
13S	<.1	126	10	17S	<.1	2	10
14S	<.1	59	12	18S	<.1	5	11
15S	<.1	4	9	19S	<.1	6	13
16S	<.1	10	5	L79W 20S	<.1	8	13
17S	<.1	14	16	L80W 13S	<.1	2	8
18S	.1	77	39	14S	<.1	17	9
19S	.3	53	24	15S	<.1	19	14
L77W 20S	<.1	5	31	16S	<.1	14	8
L78W 13S	<.1	2	5	17S	<.1	8	7
14S	<.1	65	6	18S	<.1	7	3
15S	<.1	10	19	19S	<.1	28	18
16S	<.1	2	7	L80W 20S	<.1	8	5
L78W 17S	<.1	104	9	L81W 17S	<.1	5	7

ASSAYERS (ONTARIO) LIMITED

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J. van Engelen Mgr.



ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. NA-02-09/ #3116 Date: June 11, 1984
Received June 4/84 186 Samples of Soils
Submitted by Nearctic Resources Ltd. Att'n: Mr. John Hamilton

Sample No.	Ag ppm	Cu ppm	Ni ppm	Sample No.	Ag ppm	Cu ppm	Ni ppm
L81W 18S	<.1	8	7	L86W 19S	<.1	5	2
19	<.1	10	10	L86W 20S	<.1	16	5
L81W 20	<.1	11	43	L87W 17S	<.1	9	3
L82W 18	<.1	4	29	18S	<.1	10	4
19	<.1	7	17	19S	<.1	5	2
L82S 20	<.1	4	14	L87W 20S	<.1	7	5
L83W 17	<.1	3	13				
18	<.1	8	12				
19	<.1	4	20				
L83W 20	<.1	9	15				
L84W 17	<.1	5	6				
18	<.1	7	7				
19	<.1	13	15				
L84W 20	<.1	8	16				
L85W 17	<.1	1	12				
18	<.1	3	13				
19	<.1	1	6				
L85W 20	<.1	8	12				
L86W 17S	<.1	1	8				
L86W 18S	<.1	2	12				

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J. van Engelen Mgr.



ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

M.

Certificate of Analysis

Certificate No. MI-482A/ #2847

Date: February 10, 1984

Received _____ 51 Samples of Pulps

Submitted by Nearctic Resources Ltd. Att'n: Mr. Fenton Scott

Sample No.	Ag ppm	Sample No.	Ag ppm	Sample No.	Ag ppm
L6W 17N	.5	L18W 24N	.2	L67W 3N	.6
18N	<.1	25N	.2	4N	.5
19N	.4	26N	.3	5N	1.0
20N	.4	L18W 27N	.2	6N	.9
21N	.3	L64W 0S	.1	7N	.8
22N	.7	1S	.3	8N	.9
23N	.9	2S	.2	9N	.8
24N	.8	3S	.5	10N	.8
25N	.5	4S	.8	11N	.5
26N	.6	5S	.1	12N	.4
L6W 27N	.8	6S	.2	L67W 13N	.8
L18W 15N	.5	7S	.1		
16N	.7	8S	.2		
17N	.7	9S	<.1		
18N	1.0	10S	.9		
19N	1.5	11S	.3		
20N	.8	12S	.9		
21N	.9	13S	.1		
22N	.6	14S	1.2		
L18W 23N	N.S.S.	L64W 15S	.6		

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John van Engelen Mgr



ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/63/#2649

Date: December 16, 1983

Received _____ 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L51W 22N	38	L52W 2N	40
BL0	36	3N	91
1S	12	4N	15
5S	24	5N	15
6S	32	6N	15
7S	25	7N	56
8S	24	8N	35
9S	17	9N	21
10S	38	10N	51
11S	27	11N	54
12S	32	12N	32
13S	12	13N	28
14S	20	14N	23
15S	16	15N	20
16S	16	16N	25
17S	21	17N	17
18S	32	18N	46
19S	32	19N	193
L51W 20S	13	20N	38
L52W 1N	84	L52W BL	18

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/65/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L52W 1S	27	L53W BL	26
2S	17	1N	18
3S	15	2N	44
4S	51	3N	21
5S	260	4N	17
6S	63	5N	25
7S	25	6N	20
8S	181	7N	25
9S	281	8N	43
10S	193	9N	21
11S	304	10N	18
12S	150	11N	32
13S	247	12N	18
14S	200	13N	25
15S	74	14N	14
16S	18	15N	17
17S	15	16N	33
18S	11	17N	36
19S	8	18N	48
L52W 20S	3	L53W 19N	32

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/67/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L53W 20N	57	L53W 19S	17
21N	26	20S	9
1S	27	L54W BL	14
2S	7	1N	7
3S	5	2N	47
4S	42	3N	40
5S	572	4N	26
6S	30	5N	16
7S	16	6N	25
8S	25	7N	26
9S	60	8N	37
10S	61	9N	16
11S	26	10N	41
12S	27	11N	96
13S	22	12N	7
14S	29	13N	20
15S	21	14N	27
16S	19	15N	29
17S	25	16N	19
L53W 18S	23	L54W 17N	16

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/69/#2649 Date: December 16, 1983
Received 1889 Samples of Soils
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L54W 18N	31	L54W 16S	23
19N	22	17S	17
20N	14	18S	187
21N	244	19S	18
22N	25	L54W 20S	11
1S	72	L55W BLO	21
2S	8	1N	16
3S	3	3N	175
4S	72	4N	179
5S	160	6N	11
6S	166	7N	27
7S	181	8N	32
8S	38	9N	13
9S	33	10N	18
10S	445	11N	20
11S	38	12N	18
12S	25	13N	53
13S	8	15N	48
14S	16	16N	22
L54W 15S	25	L55W 17N	24

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Certificate of Analysis

Certificate No. MI-482/711/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L55W 18N	70	L56W 2N	28
19N	19	3N	17
20N	93	4N	29
1S	24	5N	23
2S	25	6N	77
7S	29	7N	38
9S	115	8N	13
10S	180	9N	19
11S	197	10N	22
12S	199	12N	24
13S	6	13N	19
14S	6	14N	18
15S	4	15N	29
16S	158	16N	19
17S	27	17N	28
18S	29	18N	65
19S	14	21N	35
L55W 20S	13	1S	22
L56W BL	6	2S	210
L56W 1N	28	L57W 3S	254

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/73/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.		Cu ppm	Sample No.		Cu ppm
L56W	4S	21	L57W	4N	27
	5S	31		5N	29
	6S	78		6N	34
	7S	263		7N	32
	9S	24		8N	41
	10S	21		9N	115
	11S	140		10N	68
	12S	246		11N	42
	13S	27		12N	36
	14S	22		13N	33
	15S	21		14N	50
	16S	28		15N	53
	17S	32		16N	28
	18S	21		17N	37
	19S	101		18N	85
L56W	20S	162		19N	31
L57W	BL	48		1S	23
	1N	23		2S	34
	2N	60		3S	86
L57W	3N	51	L57W	4S	41

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Certificate of Analysis

Certificate No. MI-482/75/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.		Cu ppm	Sample No.		Cu ppm
L57W	5S	22	L58W	5S	7
	6S	31		6S	46
	7S	34		7S	47
	8S	34		8S	23
	9S	201		9S	89
	10S	25		10S	73
	11S	22		11S	15
	12S	42		12S	14
	13S	22		13S	31
	14S	25		14S	21
	15S	23		15S	27
	16S	19		16S	30
	17S	34		17S	22
	18S	29		18S	13
	19S	111		19S	34
L57W	20S	146		20S	5
L58W	1S	31		BL	35
	2S	28		1N	39
	3S	9		2N	35
L58W	4S	65	L58W	3N	31

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/77/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L58W 4N	17	L59W 5S	18
5N	18	6S	53
6N	19	7S	143
7N	20	8S	37
8N	20	9S	97
9N	221	10S	75
10N	16	11S	67
11N	24	13S	51
12N	12	14S	18
13N	12	15S	15
14N	8	16S	8
15N	102	17S	9
16N	17	18S	41
17N	26	19S	36
18N	31	20S	18
L58W 19N	48	BLO	15
1S	25	1N	25
2S	24	2N	23
3S	30	3N	22
L59W 4S	22	L59W 4N	11

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Certificate of Analysis

Certificate No. MI-482/79/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L59W 5N	23	L60W 5S	39
6N	30	6S	47
7N	23	7S	36
8N	68	8S	10
9N	68	9S	30
10N	50	10S	121
11N	41	11S	20
12N	28	12S	29
13N	15	13S	34
14N	120	17S	32
15N	34	18S	31
16N	26	19S	31
17N	34	BL	23
18N	42	1N	39
L59W 19N	26	2N	36
L60W BL0	47	3N	51
1S	31	4N	41
2S	44	5N	30
3S	94	6N	48
L60W 4S	47	L60W 7N	59

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/81/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.		Cu ppm	Sample No.		Cu ppm
L60W	8N	15	L61W	7N	7
	9N	67		8N	9
	10N	20		9N	10
	11N	36		10N	63
	12N	15		11N	21
	13N	19		12N	48
	14N	19		13N	36
	15N	5		14N	148
	16N	43		15N	31
	17N	21		16N	26
	18N	46		17N	29
	19N	124		18N	35
L60W	20N	19	L61W	19N	425
L61W	BL	39	L62W	BL	55
	1N	37		1N	45
	2N	23		2N	44
	3N	49		3N	38
	4N	16		4N	22
	5N	12		5N	23
L61W	6N	21	L62W	6N	32

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/83/#2649 Date: December 16, 1983
Received 1889 Samples of Soils
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L62W 7N	56	L62W 8S	153
8N	117	9S	156
9N	24	10S	33
10N	14	11S	112
11N	19	12S	111
12N	20	13S	60
13N	24	14S	30
14N	20	15S	29
15N	28	16S	10
16N	17	17S	35
17N	28	18S	16
18N	30	19S	14
19N	34	L62W 20S	36
1S	26	L63W 1N	20
2S	25	2N	24
3S	32	3N	28
4S	23	4N	52
5S	33	5N	11
6S	22	6N	20
L62W 7S	154	L63W 7N	18

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/85/#2649

Date: December 16, 1983

Received 1889 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L63W 8N	36	L63W 8S	26
9N	27	9S	188
10N	16	10S	390
11N	32	11S	26
12N	23	12S	53
13N	31	13S	40
14N	33	14S	61
15N	26	15S	16
16N	27	16S	26
17N	40	17S	24
18N	42	18S	25
19N	33	19S	49
BL	41	L63W 20S	32
1S	25	L64W 1N	142
2S	20	2N	25
3S	15	3N	52
4S	23	4N	66
5S	25	5N	32
6S	31	6N	27
L63W 7S	61	7N	330
		L64W 8N	30

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/87/#2649 Date: December 16, 1983
Received 1890 Samples of Soils
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L64W 9N	33	L64W 10S	500
10N	21	11S	31
11N	25	12S	520
12N	23	13S	33
13N	36	14S	54
14N	24	15S	11
15N	26	16S	20
16N	31	17S	18
17N	34	18S	14
18N	35	19S	91
BL	42	L64W 20S	21
1S	33	L63W 16S	26
2S	25	L61W 1S	21
3S	25	2S	22
4S	166	3S	21
5S	14	4S	14
6S	13	5S	21
7S	44	6S	24
8S	31	7S	21
L64W 9S	42	L61W 8S	27

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/89/#2649

Date: December 16, 1983

Received _____ 1890 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L61W 9S	29	L65W 8N	15
10S	34	9N	18
11S	35	10N	14
12S	16	11N	34
13S	17	12N	28
14S	13	13N	17
15S	15	14N	21
16S	17	15N	18
17S	20	16N	22
18S	81	17N	23
19S	26	BL	30
L61W 20S	25	1S	32
L65W BL	19	2S	13
1N	11	L65W 4S	13
2N	18	L66W 1N	9
3N	28	2N	12
4N	22	3N	84
5N	29	4N	13
6N	169	5N	45
L65W 7N	22	L66W 6N	17

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/91/#2649

Date: December 16, 1983

Received 1890 Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L66W 7N	19	L67W 6N	27
8N	30	7N	24
9N	21	8N	24
10N	26	9N	25
11N	26	10N	22
12N	32	11N	1180
13N	48	12N	760
14N	34	13N	35
15N	25	BL	41
16N	48	1S	58
17N	53	2S	26
BL	18	L67W 3S	34
1S	26	L68W BL	27
2S	36	1S	129
L66W 3S	20	1N	30
L67W 1N	18	2N	16
2N	470	3N	85
3N	31	4N	66
4N	45	5N	256
L67W 5N	20	L68W 6N	110

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/93/#2649 Date: December 16, 1983
 Received _____ 1890 Samples of Soils
 Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L68W 7N	11	L70W 1N	41
8N	13	2N	248
9N	47	3N	57
10N	12	4N	19
11N	11	5N	30
12N	14	6N	28
L68W 13N	39	7N	13
L69W 1N	19	8N	8
2N	76	L70W 9N	39
3N	18	L71W 1N	19
4N	20	2N	24
5N	215	3N	25
6N	25	4N	36
7N	22	5N	36
8N	46	BL	23
9N	42	L71W 1S	25
BL	22	L72W 1N	24
L69W 1S	38	2N	23
L70W BL	24	3N	40
L70W 1S	37	L72W 4N	15

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/95/#2649 Date: December 16, 1983
Received 1890 Samples of Soils
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.		Cu ppm
L72W	5N	46
	BL	27
L72W	1S	23
L73W	BL	45
	1N	15
	2N	36
	3N	19
	4N	24
L73W	5N	30

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/53/#2649

Date: December 13, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L46W 14N	23	L45W 6N	16
15N	26	7N	17
16N	23	8N	21
17N	34	9N	14
18N	55	10N	17
19N	20	11N	13
20N	28	12N	12
21N	27	13N	26
22N	19	14N	19
23N	38	15N	52
BLO	13	16N	36
1S	19	17N	149
2S	28	19N	54
3S	21	20N	45
L46W 4S	134	22N	26
L45W 1N	16	23N	62
2N	21	BL 45W	24
3N	25	1S	32
4N	32	2S	26
L45W 5N	23	L45W 3S	22

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/55/#2649

Date: December 13, 1983

Received _____ Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L47W 1N	56	L47W 21N	19
2N	33	22N	22
3N	23	BL 47W	23
4N	26	1S	19
5N	14	2S	17
6N	15	3S	46
7N	18	L47W 4S	217
8N	24	L48W BL	17
9N	21	1N	56
10N	16	2N	45
11N	16	3N	22
12N	28	4N	13
13N	21	5N	12
14N	61	6N	74
15N	23	7N	19
16N	221	8N	12
17N	36	9N	13
18N	35	10N	12
19N	54	11N	13
L47W 20N	156	L48W 12N	20

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/57/#2649

Date: December 13, 1983

Received _____ Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L48W 13N	17	L49W 5N	21
14N	16	6N	55
15N	23	7N	76
16N	28	8N	42
17N	27	9N	37
18N	27	10N	14
19N	30	11N	17
20N	16	12N	20
21N	20	13N	18
22N	139	14N	22
1S	29	15N	18
2S	22	16N	36
3S	15	17N	20
4S	244	18N	33
L48W 5S	325	19N	38
L49W BL	20	20N	32
1N	15	21N	38
2N	14	22N	20
3N	21	1S	19
L49W 4N	47	L49W 2S	13

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416)239-3527

Certificate of Analysis

Certificate No. MI-482/59/#2649

Date: December 13, 1983

Received _____ Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.		Cu ppm	Sample No.		Cu ppm
L49W	3S	23	L50W	4N	26
	4S	30		5N	23
	5S	204		A-6N	27
	6S	46		B-6N	188
	7S	20		A-7N	25
	8S	34		8N	28
	9S	23		9N	26
	10S	194		10N	24
	11S	48		11N	25
	12S	28		12N	24
	13S	13		13N	24
	14S	23		14N	22
	15S	17		15N	37
	16S	16		16N	37
	17S	23		17N	39
	18S	17		18N	34
	19S	22		19N	194
L49W	20S	87		20N	28
L50W	1N	50		21N	29
L50W	3N	33	L50W	BL	28

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/61/#2649

Date: December 13, 1983

Received _____ Samples of Soils

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L50W 1S	17	L51W 2N	42
2S	16	3N	44
3S	20	4N	17
4S	16	5N	20
5S	376	6N	20
8S	14	7N	18
9S	39	8N	22
10S	22	9N	16
11S	20	10N	16
12S	16	11N	14
13S	9	12N	15
14S	13	13N	13
15S	16	14N	26
16S	12	15N	21
17S	12	16N	29
18S	8	17N	21
19S	135	18N	36
20S	18	19N	39
L50W 7N	8	20N	236
L51W 1N	34	L51W 21N	138

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/49/#2649

Date: December 12, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L41W 23N	15	L42W 21N	37
L42W 2N	14	22N	44
3N	37	L42W 23N	43
4N	21	L43W 2N	20
5N	13	3N	28
6N	23	4 N	21
7N	19	5N	20
8N	37	6N	17
9N	28	7N	13
10N	21	8N	31
11N	16	9N	23
12N	13	10N	19
13N	4	11N	20
14N	18	12N	3
15N	48	13N	26
16N	24	14N	11
17N	33	15N	18
18N	40	16N	22
19N	43	17N	35
L42W 20N	24	L43W 18N	28

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/51/#2649 Date: December 12, 1983
Received 357 Samples of Soil
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L43W 19N	31	L44W 17N	43
20N	90	18N	45
21N	120	19N	87
22N	97	20N	97
L43W 23N	30	21N	52
L44W 2N	21	22N	51
3N	40	L44W 23N	39
4N	26	L46W 1N	28
5N	20	2N	79
6N	13	3N	24
7N	18	4N	16
8N	77	5N	21
9N	87	6N	25
10N	84	7N	25
11N	25	8N	38
12N	23	9N	74
13N	22	10N	16
14N	33	11N	17
15N	24	12N	24
L44W 16N	32	L46W 13N	30

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/43/#2649 Date: December 9, 1983
Received _____ Samples of Soil
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L30W 15N	68	L31W 11N	22
16N	53	12N	30
17N	75	13N	36
18N	29	14N	58
19N	36	15N	71
20N	30	16N	30
22N	21	17N	12
23N	31	18N	19
24N	20	19N	88
25N	28	20N	34
L30W 26N	20	21N	24
L31W 3N	19	22N	43
4N	25	23N	35
5N	16	24N	27
6N	22	25N	19
7N	68	26N	20
8N	27	L31W 27N	34
A-9N	59	L38W 3N	51
B-9N	41	4N	38
L31W 10N	25	L38W 5N	17

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/45/#2649

Date: December 9, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L38W 6N	23	L39W 5N	18
7N	28	6N	18
8N	16	7N	24
9N	24	8N	33
10N	15	9N	24
11N	16	10N	8
12N	17	11N	23
13N	23	12N	14
14N	18	13N	22
15N	18	14N	18
16N	19	15N	23
17N	21	16N	33
18N	32	17N	24
19N	45	18N	25
20N	50	19N	48
21N	103	20N	50
22N	27	21N	53
L38W 23N	40	22N	33
L39W 3N	32	L39W 23N	28
L39W 4N	16	L40W 3N	18

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/47/H2649

Date: December 9, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L40W 4N	21	L41W 3N	17
5N	42	4N	35
6N	29	5N	12
7N	21	6N	25
8N	15	7N	13
9N	22	8N	44
10N	28	9N	40
11N	22	10N	52
12N	28	11N	15
13N	11	12N	17
14N	22	13N	4
15N	19	14N	23
16N	20	15N	21
17N	13	16N	26
18N	32	17N	25
19N	66	18N	46
20N	48	19N	55
22N	25	20N	27
L40W 23N	52	21N	40
L41W 2N	24	L41W 22N	24

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/39/#2649

Date: December 8, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L27W 6N	30	L27W 26N	71
7N	28	L27W 27N	59
8N	18	L28W 6N	27
9N	17	7N	20
10N	62	8N	18
11N	31	9N	27
12N	93	10N	30
13N	129	11N	33
14N	54	12N	38
15N	68	13N	126
16N	31	14N	42
17N	25	15N	68
18N	42	16N	14
19N	68	17N	12
20N	80	18N	32
21N	74	19N	58
22N	31	20N	60
23N	27	21N	56
24N	32	22N	95
L27W 25N	32	L28W 23N	850

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/41/#2649

Date: December 8, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L28W 24N	31	L29W 20N	20
25N	25	21N	92
26N	132	22N	35
L28W 27N	26	23N	24
L29W 4N	31	24N	45
5N	19	25N	44
6N	30	26N	54
7N	26	L29W 27N	20
8N	22	L30W 3N	24
9N	40	4N	25
10N	12	5N	28
11N	12	6N	36
12N	30	7N	34
13N	13	8N	31
14N	28	9N	30
15N	38	10N	16
16N	12	11N	26
17N	25	12N	13
18N	61	13N	29
L29W 19N	34	L30W 14N	18

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/35/#2649 Date: December 7, 1983
Received _____ Samples of Soil
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Ni ppm	Sample No.	Cu ppm	Ni ppm
L37W 5N	12	65	L24W 7N	82	11
6N	21	47	8N	60	33
7N	18	55	9N	32	13
8N	67	122	10N	37	6
9N	10	31	11N	12	35
10N	18	44	12N	32	60
11N	12	37	13N	37	84
12N	14	85	14N	37	85
13N	8	18	15N	54	87
14N	7	14	16N	28	60
15N	4	6	17N	25	62
16N	12	24	18N	22	95
17N	43	50	19N	34	80
18N	31	62	20N	32	80
19N	43	75	21N	44	84
20N	56	72	22N	30	68
21N	18	47	23N	40	78
22N	26	57	24N	27	79
23N	31	59	25N	38	44
L37W 24N	8	20	L24W 26N	24	42

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/37/#2649

Date: December 7, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Ni ppm	Sample No.	Cu ppm
L24W 27N	41	48	L26W 10N	13
L25W 10N	53	85	11N	22
11N	32	80	12N	38
12N	36	94	13N	35
13N	22	60	14N	29
14N	39	73	15N	34
15N	32	109	16N	61
16N	41	110	17N	35
17N	41	77	18N	140
18N	46	89	19N	310
19N	40	86	20N	24
20N	76	93	21N	33
21N	29	63	22N	24
22N	31	84	23N	28
23N	40	58	24N	28
24N	25	65	25N	21
25N	35	58	26N	20
26N	21	33	L26W 27N	20
L25W 27N	24	34	L27W 4N	15
L26W 9N	20	56	L27W 5N	22

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/#2649 Date: December 7, 1983
Received _____ Samples of Soil
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

		REPEATS	
Sample No.		Cu ppm	Ni ppm
L22W	19N	27	87
	20N	48	79
	21N	26	90
	22N	49	79
	23N	24	67
	24N	28	67
L22W	25N	103	71
L23W	19N	101	92
	20N	117	113
	21N	33	58
	22N	48	91
	23N	30	57
	24N	31	77
L23W	25N	27	58

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/33/#2649

Date: December 6, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L35W 8N	18	L36W 6N	23
9N	20	7N	18
10N	28	8N	20
11N	8	9N	18
12N	9	10N	11
13N	5	11N	6
14N	17	13N	7
15N	30	14N	4
16N	1	15N	1
17N	140	16N	13
18N	78	17N	38
19N	34	18N	25
20N	168	19N	20
21N	170	20N	61
22N	40	21N	52
23N	17	22N	95
L35W 24N	103	23N	25
L36W 3N	14	L36W 24N	25
4N	15	L37W 3N	27
L36W 5N	17	L37W 4N	17

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527 ·

Certificate of Analysis

Certificate No. MI-482/17/#2649

Date: December 2, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.		Cu ppm	Ni ppm	Zn ppm	Sample No.		Cu ppm	Ni ppm	Zn ppm
L13W	BL	11	8	84	L13W	1S	4	8	22
	1N	9	10	56		2S	6	9	18
	2N	9	8	64		3S	13	18	35
	3N	7	4	36		4S	10	15	26
	12N	92	16	217	L13W	5S	5	12	15
	13N	39	31	81	L14W	BL	22	15	195
	14N	50	27	58		1N	21	14	175
	15N	440	10	15		2N	6	12	26
	16N	216	14	65		3N	17	16	51
	17N	33	40	63		11N	7	5	68
	18N	44	64	88		12N	80	17	27
	19N	36	97	79		13N	104	25	77
	20N	62	74	88		14N	46	27	48
	21N	18	65	56		15N	104	18	43
	22N	29	101	56		16N	74	37	57
	23N	18	45	26		17N	71	65	78
	24N	20	67	49		18N	27	67	53
	25N	31	76	54		19N	36	41	56
	26N	293	11	18		20N	47	75	70
L13W	27N	46	47	39	L14W	21N	21	115	53

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/19/#2649

Date: December 2, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Ni ppm	Zn ppm	Sample No.	Cu ppm	Ni ppm	Zn ppm
L14W 22N	35	75	51	L15W 15N	67	50	96
23N	27	62	51	16N	120	56	85
24N	66	90	48	17N	122	45	113
25N	33	120	58	18N	222	72	77
26N	380	9	17	19N	155	67	81
27N	64	9	40	20N	21	63	50
BL	29	29	108	21N	20	124	147
1S	23	12	190	22N	14	114	104
2S	15	25	30	23N	20	58	69
3S	11	14	31	24N	29	61	48
4S	22	22	31	25N	20	66	60
L14W 5S	8	23	14	26N	287	11	19
L15W BL	7	22	27	27N	98	12	20
1N	10	26	21	1S	9	17	33
2N	7	22	16	2S	10	22	34
3N	14	23	16	3S	12	16	39
11N	16	39	23	4S	6	15	32
12N	34	20	67	5S	13	16	53
13N	67	40	64	L15W 6S	18	22	36
L15W 14N	30	76	34	L16W 10N	18	28	62

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/21/#2649 Date: December 2, 1983
Received _____ Samples of Soil
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Ni ppm	Sample No.	Cu ppm	Ni ppm
L16W 11N	42	27	L16W 3S	17	15
12N	119	26	4S	15	11
13N	66	26	5S	9	7
14N	37	57	6S	7	17
15N	124	13	L16W 7S	6	13
16N	78	59	L17W 10N	10	15
17N	27	96	11N	16	28
18N	443	59	12N	26	18
19N	152	40	13N	34	49
20N	47	81	14N	25	10
21N	14	52	15N	26	38
22N	20	74	16N	37	66
23N	25	74	17N	71	70
24N	32	99	18N	48	19
25N	15	96	19N	65	40
26N	258	9	20N	27	70
L16W 27N	109	8	21N	103	133
L16W BL	11	17	22N	21	139
1S	7	15	23N	23	71
L16W 2S	15	15	L17W 24N	276	9

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/23/#2649 Date: December 2, 1983
Received _____ Samples of Soil
Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L17W 25N	387	L19W 8N	10
L17W 26N	160	9N	4
L18W 10N	17	10N	7
11N	50	11N	50
12N	7	12N	6
13N	34	13N	4
14N	67	14N	3
15N	53	15N	11
16N	43	16N	21
17N	41	17N	40
18N	93	18N	9
19N	60	19N	17
20N	200	20N	21
21N	170	21N	124
22N	142	22N	75
23N	270	23N	85
24N	13	24N	15
25N	5	25N	4
26N	105	26N	19
L18W 27N	50	L19W 27N	2

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ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/25/#2649

Date: December 2, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L20W 9N	4	L21W 9N	34
10N	25	10N	25
11N	26	11N	26
12N	6	12N	3
13N	33	13N	2
14N	45	14N	43
15N	60	15N	16
16N	65	16N	2
17N	44	17N	3
18N	27	18N	4
19N	31	19N	13
20N	11	20N	17
21N	68	21N	11
22N	52	22N	31
23N	145	23N	282
24N	19	24N	10
25N	43	25N	11
26N	26	26N	4
L20W 27N	15	L21W 27N	7
L21W 8N	26	L22W 7N	2

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ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/27/#2649

Date: December 5, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L22W 8N	25	L23W 7N	51
9N	21	8N	33
10N	41	9N	59
11N	16	10N	41
12N	14	11N	24
13N	19	12N	N.S.
14N	15	13N	11
15N	36	14N	19
16N	10	15N	29
17N	88	16N	24
18N	28	17N	26
19N	33	18N	22
20N	58	19N	91
21N	33	20N	120
22N	57	21N	30
23N	31	22N	44
24N	35	23N	34
25N	125	24N	41
26N	32	25N	36
L22W 27N	38	L23W 26N	19

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ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/29/#2649

Date: December 5, 1983

Received _____

Samples of Soil

Submitted by Nearctic Resources Limited

Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L23W 27N	32	L32W 22N	48
L32W 3N	48	23N	37
4N	26	24N	28
5N	25	25N	21
6N	33	26N	23
7N	20	L32W 27N	32
8N	45	L33W 3N	134
9N	19	4N	31
10N	13	5N	21
11N	52	6N	33
12N	29	7N	23
13N	34	8N	41
14N	20	9N	30
15N	20	10N	30
16N	15	11N	24
17N	16	12N	16
18N	24	13N	14
19N	26	14N	10
20N	18	15N	75
L32W 21N	22	L33W 16N	26

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/31/#2649

Date: December 6, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L33W 17N	47	L34W 13N	16
18N	25	14N	20
19N	22	15N	21
20N	130	16N	33
21N	176	17N	17
22N	43	18N	35
23N	28	19N	20
24N	12	20N	11
25N	51	21N	57
L33W 26N	21	22N	29
L34W 3N	44	23N	31
4N	71	24N	33
5N	26	25N	28
6N	44	L34W 26N	17
7N	11	L35W 2N	36
8N	23	3N	29
9N	6	4N	30
10N	10	5N	22
11N	11	6N	21
L34W 12N	14	L35W 7N	17

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI- 482-01/ #2649

Date: November 24, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
BLO+00	6	L OW 20N	5
L OW 1N	7	21N	4
2N	12	22N	27
3N	10	23N	14
4N	6	24N	112
5N	23	25N	40
6N	4	26N	10
7N	6	L OW 27N	16
8N	2	BL 1W 0	3
9N	5	1N	2
10N	3	2N	1
11N	5	3N	4
12N	5	4N	3
13N	5	5N	3
14N	4	6N	1
15N	6	7N	11
16N	10	8N	6
17N	1	9N	5
18N	4	10N	3
L OW 19N	1	BL 1W 11N	4

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482-03/ #2649

Date: November 24, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L 1W 12N	5	L 2W 5N	6
13N	10	6N	10
14N	15	7N	4
15N	7	8N	5
16N	7	9N	3
17N	24	10N	7
18N	17	11N	6
19N	18	12N	4
20N	16	13N	8
21N	12	14N	4
22N	28	15N	8
23N	22	16N	12
24N	13	17N	3
25N	25	19N	12
26N	24	20N	9
L 1W 27N	15	21N	10
BL 2W	7	22N	33
1N	19	23N	9
2N	7	24N	18
L 2W 3N	7	L 2W 25N	19

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482-05/ #2649

Date: November 24, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L 2W 26N	26	L 3W 18N	44
L 2W 27N	81	19N	171
BL 3W	8	20N	32
1N	9	21N	21
2N	8	22N	92
3N	5	23N	41
4N	7	24N	45
5N	9	25N	95
6N	7	26N	30
7N	10	L 3W 27N	18
8N	12	BL 4W	11
9N	7	1N	10
10N	10	2N	6
11N	11	3N	3
12N	12	4N	8
13N	11	5N	15
14N	8	6N	6
15N	6	7N	7
16N	14	8N	21
BL 3W 17N	18	BL 4W 9N	10

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/07/#2649

Date: November 28, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L 4W 10N	11	L 5W 2N	5
11N	7	3N	8
12N	5	4N	6
13N	9	5N	5
14N	12	6N	17
15N	16	7N	8
16N	16	8N	7
17N	24	9N	8
18N	36	10N	6
19N	17	11N	4
20N	14	12N	14
21N	24	13N	6
22N	287	14N	4
23N	105	15N	15
24N	32	16N	19
25N	31	17N	60
26N	91	18N	40
27N	48	19N	30
BL 5W	18	20N	73
L 5W 1N	5	L 5W 21N	21

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/09/#2649

Date: November 28, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L 5W 22N	18	L 6W 20N	23
23N	66	21N	16
24N	93	22N	64
25N	185	23N	254
26N	96	24N	61
27N	99	25N	152
BL 6W	5	26N	61
L 6W 1N	9	27N	149
2N	3	BL 7W	15
3N	4	L 7W 1N	10
4N	7	2N	9
5N	8	3N	5
6N	8	4N	6
7N	4	5N	3
8N	6	15N	10
9N	8	16N	16
10N	3	17N	51
17N	28	18N	49
18N	52	19N	21
L 6W 19N	54	L 7W 20N	30

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/11/#2649

Date: November 28, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L 7W 21N	16	L 8W 21N	34
22N	52	22N	50
23N	60	23N	29
24N	54	24N	97
25N	100	25N	94
26N	163	26N	41
27N	42	27N	21
BL 8W	7	BL 9W	8
L 8W 1N	3	L 9W 1N	9
2N	5	2N	5
3N	6	3N	7
4N	9	4N	18
5N	4	5N	13
14N	12	6N	3
15N	38	7N	14
16N	152	8N	3
17N	15	14N	27
18N	44	15N	22
19N	99	16N	25
L 8W 20N	21	L 9W 17N	53

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527 ·

Certificate of Analysis

Certificate No. MI-482/13/#2649

Date: November 29, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L 9W 18N	20	L10W 14N	19
19N	37	15N	32
20N	35	16N	17
21N	25	17N	76
22N	22	18N	42
23N	34	19N	30
24N	29	20N	130
25N	100	21N	54
26N	37	22N	24
L 9W 27N	64	23N	52
L10W BL	12	24N	44
1N	8	25N	229
2N	10	26N	84
3N	9	L10W 27N	22
4N	3	L11W BL	21
5N	21	1N	23
6N	5	2N	6
7N	8	3N	7
8N	5	4N	19
L10W 10N	3	L11W 6N	26

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33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-482/15/#2649

Date: November 29, 1983

Received _____ Samples of Soil

Submitted by Nearctic Resources Limited Att'n: Mr. John Hamilton

Sample No.	Cu ppm	Sample No.	Cu ppm
L11W 7N	11	L12W BL	12
8N	10	1N	14
9N	5	2N	17
11N	168	3N	11
12N	17	7N	10
13N	33	13N	30
14N	247	14N	42
15N	153	15N	601
16N	19	16N	67
17N	12	17N	82
18N	13	18N	18
19N	32	19N	11
20N	114	20N	24
21N	84	21N	21
22N	14	22N	73
23N	35	23N	40
24N	30	24N	19
25N	50	25N	24
26N	41	26N	18
L11W 27N	19	L12W 27N	25

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Ministry of Natural Resources

Diamond Drilling Log

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Hole No. 1 Page No. 1

Drilling Company NEARCTIC RESOURCES INC.		Collar Elevation	Bearing of hole from true North 0°	Total Footage 200	Dip of Hole at Collar 49	Location of hole in relation to a fixed point on the claim. LINE 64W 11+50S	Map Reference No.	Claim No. L.O. 14905
Date Hole Started JULY 14 1984	Date Completed JULY 25, 1984	Date Logged Aug. 8/84	Logged by FENTON SCOTT		Fl.		Location (Twp., Lot, Con. or Lat. and Long.) MICHIPICOTEN ISLAND	Property Name MICHIPICOTEN L.S.
Exploration Co., Owner or Optionee NEARCTIC RESOURCES		Date Submitted JUNE 28/85	Submitted by (Signature) <i>Fenton Scott</i>		Fl.			
					Fl.			

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To		Cu	Ag
0	14	OVERBURDEN									
14	21	AMYGDALOID	RED BROWN COLOUR, COARSE-GRAINED AMYGDULES, FINE MATRIX 25% AMYGDULES - PREHNITE 75% CALCITE, MICROCLINE, ETC.								
21	41	AMYGDALOIDAL BASALT	SLIGHT AMYGDULE CONTENT OF WHICH 10% PREHNITE, MEDIUM-GRAINED, OXIDIZED AND CLAY-ALTERED, RED BROWN COLOUR.								
41	62.5	AMYGDALOID	RED BROWN, COARSE, ALL AMYGDULES WHITE, OXIDIZED AND CLAY ALTERED. 50-52 CORE LOST.								
62.5	65		CORE LOST.								
65	65.8	BASIC DYKE	GREEN, SHEARED, FINE GRAINED, CHLORITIC.								
65.8	70		CORE LOST.								
70	75	BRECCIA	RED, VOLCANIC, MOSTLY RHYOLITE CLASTS, CHLORITIZED.								
75	85	BASIC DYKE	FINE GRAINED, DARK COLOURED								
85	87		CORE LOST								
87	120	CONGLOMERATE	RED BROWN, COARSE, MATRIX SUPPORTED, FINING UPWARD. SOME LATE CALCITE GRAINS, CLASTS ARE 50% BASIC VOLCANICS, 50% GRANITE CORE LOST 90-92, 94-96, 113-114, 120-121	70°							
120	185.5	CONGLOMERATE	RED, COARSE, CLASTS TO 2 FEET, CLAST-SUPPORTED, 60% GRANITE, 20% AMYGDALOID, 10% BASALT, 148-155 - CLAY ALTERED 178-185 TRACE NATIVE COPPER			2611	178	185	7.0		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



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Hole No. **2** Page No. **1**

Drilling Company NEARCTIC RESOURCES INC.		Collar Elevation	Bearing of hole from true North 0°	Total Footage 304'	Dip of Hole at # Collar 45°	Location of hole in relation to a fixed point on the claim. LINE 49+00W 6+50 S	Map Reference No.	Claim No. L.O. 14905
Date Hole Started AUGUST 13/1985	Date Completed AUGUST 20/1985	Date Logged MAY 27/85	Logged by C. COOK, G. SCOTT		Fl.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name MICHIPICOTEN
Exploration Co., Owner or Optionee NEARCTIC RESOURCES INC.		Date Submitted JUNE 22/85	Submitted by (Signature) <i>[Signature]</i>		Fl.			
					Fl.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
0	2	CASING IN	OVERBURDEN								
2	13	SANDSTONE	GRAY-GREEN, FINE GRAINED								
13	25	SANDSTONE	RED, FINE-GRAINED, NO CLASTS, ZONES CARBONATE RICH.								
25	36	SANDSTONE	RED, LOW CARBONATE, CLASTS TO 6 MM. SOME CARBONATE "AMYGDULES"								
36	46	SILTSTONE	DARK RED, FINE GRAINED, MINOR CARBONATISATION, VEINLETS, MINOR MALACHYTE, TRACE NATIVE COPPER.								
46	54	CONGLOMERATE	RED, POLYMICTIC, CLASTS 1 CM TO 5 CM, CARBONATE RICH.								
54	65	CONGLOMERATE	RED, POLYMICTIC, LESS CARBONATE, CLASTS TO 2 CM.								
65	98	CONGLOMERATE	RED, POLYMICTIC, CLASTS TO 2 CM, CARBONATE VEINING								
98	105	CONGLOMERATE	POLYMICTIC, DOMINANTLY GREEN CLASTS.								
105	165	CONGLOMERATE	POLYMICTIC, RED, MULT CLASTS IN RANGE 1 CM - 2 CM RARELY TO 10 CM. LOOSE TO FIRM								
165	172	SANDSTONE	"AMYGDALOIDAL" FINE GRAINED, CARBONATE VEINLETS, RED.								
172	195	SANDSTONE	"AMYGDALOID" RARE, RED COLOUR								
195	197	SANDSTONE	CARBONATE PORPHYROBLASTS								
197	197.5	BRECCIATED S.S.	CARBONATE VEINING.								



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Hole No. 2 Page No. 2

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		FL		Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		FL				
NEARCTIC RESOURCES					FL		Property Name MICHIPICOTEN		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To				
197.5	239	CONGLOMERATE	POLYMITIC, SOME LARGE GRANITE CLASTS CONTAIN MINOR NATIVE COPPER, UP TO 3% CHALCOPYRITE, CARBONATE RICH MATRIX, CLASTS RANGE 2 cm - 8 cm. GRANITE CLASTS 3%									
238	304	SANDSTONE	RED, CARBONATE RICH, POOR INDURATION, CLASTS 1 mm - 1 cm.									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional



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Hole No. **3** Page No. **1**

Drilling Company NEARCTIC RESOURCES INC.		Collar Elevation	Bearing of hole from true North 0°	Total Footage 250	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim. 70' W OF LINE 64 4+00 NORTH	Map Reference No.	Claim No. L.O. 1905
Date Hole Started JULY 26 /84	Date Completed JULY 29, 1984	Date Logged AUG. 7/84	Logged by F. SCOTT		Fl.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name MICHIPICOTEN.
Exploration Co., Owner or Optionee NEARCTIC RESOURCES INC.		Date Submitted JUNE 28/85	Submitted by (Signature) <i>F. Scott</i>		Fl.			
					Fl.			

Footage		Rock Type	Description <small>Colour, grain size, texture, minerals, alteration, etc.</small>	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
0	7	OVERBURDEN									
7	233	BASALT	COARSE GRAINED, OPHITIC, DARK GREEN 17.5, 20, OXIDATION, CALCITE VEINS 49 1" CALCITE VEIN 20° CORE AXIS 77-80, CALCITE, HEMATITE 188-210 - CALCITE VEINS PARALLEL CORE AXIS FINER GRAINED 210-233								
233	244.5	ARGILLITE	GREY, FINER GRAINED								
244.5	245.2	AMYGOALOID	RED, MEDIUM GRAINED								
246	250	CONGLOMERATE	GRANITE AND RHYOLITE CLASTS.								



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Hole No. 4	Page No. 1
Claim No. 2. L.O. 14905	

Drilling Company NEARCTIC RESOURCES INC.		Collar Elevation	Bearing of hole from true North 0°	Total Footage 244	Dip of Hole at Collar 45	Location of hole in relation to a fixed point on the claim. LINE 60W 13+00 N	Map Reference No.	Claim No. 2. L.O. 14905
Date Hole Started JULY 30, 1984	Date Completed AUGUST 7, 1984	Date Logged AUG 8/84	Logged by F. SCOTT		Fl.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee NEARCTIC RESOURCES INC.		Date Submitted JUNE 22/85	Submitted by (Signature) <i>F. Scott</i>		Fl.			
					Fl.			Property Name MICHIPICOTEN

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To		Cu	
0	3.5	OVERBURDEN									
3.5	6	BASALT	GREEN, COARSE GRAINED, OPHITIC.								
6	16	AMYGDALOID	RED, BROWN, WHITE AMYGDULES, CALCITIC.								
16	47	AMYGDALOIDAL BASALT	RED, LESS AMYGDULES WITH DEPTH, PREHNITE IN AMYGDULES.								
47	65	AMYGDALOID	DARK RED, ^{50%} AMYGDULES ARE PREHNITE.			2614	68.5	65.5	1		
65	79	BASALT.	DARK RED AND GREEN, FINE TO MEDIUM GRAINED								
79	91	AMYGDALOID	COARSE-GRAINED, RED, CALCITIC AMYGDULES.								
91	102	AMYGDALOID	COARSE - PREHNITE IN AMYGDULES.								
102	107	BASALT	RED BROWN, MEDIUM GRAINED, MINOR AMYGDULES, COPPER			2612	104.5	105.5	1		
107	123	AMYGDALOID	RED, BROWN, COARSE GRAINED, WHITE AMYGDULES.			2613	105.5	106.5	1		
123	145	BASALT	SLIGHTLY AMYGDALOIDAL, WHITE MINERAL AND PREHNITE IN AMYGDALOID.								
145	184	BASALT	RED BROWN, MINOR CALCITE VEINS WITH COPPER PARALLEL TO CORE AXIS 145-150 174-176 CORE GROUND			2615	180.5	182.5	2		
184	244	BASALT	DARK GREEN, OPHITIC. (AS AT 3.5-6)								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



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Hole No. **G** Page No. **1**

Drilling Company NEARCTIC RESOURCES INC.		Collar Elevation	Bearing of hole from true North 270°	Total Footage 381	Dip of Hole at Collar 45	Location of hole in relation to a fixed point on the claim. LINE 5205-10+00 S	Map Reference No.	Claim No. L.O. 14905
Date Hole Started SEPT. 1, 1984	Date Completed SEPT. 12, 1984	Date Logged MAY 27/85	Logged by C. COOK, G. SCOTT		Fl.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name MICHIPICOTEN.
Exploration Co., Owner or Optionee NEARCTIC RESOURCES INC.		Date Submitted JUNE 28/85	Submitted by (Signature) <i>[Signature]</i>		Fl.			
					Fl.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
0	17.5	CASING IN	OVERBURDEN								
17.5	53	SANDSTONE	REDDISH, FINE GRAINED, CARBONATED, SOME FINE DARK GREEN CLASTS.								
53	85	MUDSTONE	RED-BROWN, FINE, FLW BANDED, CARBONATE VEINLETS, THIN CONGLOMERATE LENSES								
85	115	CONGLOMERATE	BROWN, MEDIUM GRAINED, POLYMIC TIC, BRECCIATED MUDSTONE CLASTS, CLASTS TO 3 CM (TOPS DOWN HOLE?)								
115	131	SANDSTONE	RED-BROWN, CLAY VESICLES, FINE-GRAINED, FINE CARBONATE VEINLETS — 123-129 CARBONATE PORPHYROBLASTS.								
131	151	CONGLOMERATE	AS ABOVE								
151	246	BASALT	DARK GREY, FINE GRAINED								
246	298	CONGLOMERATE	BROWN, POLYMIC TIC, SANDY MATRIX, SOME CARBONATE CLASTS								
298	305	SANDSTONE	BROWN, CARBONATED, ARKOSIC.								
305	308	BASALT	COARSE "LEOPARD ROCK"								
308	312	CONGLOMERATE	RED, POLYMIC TIC, SOME CALCITE CLASTS								
312	318.5	RHYOLITE	FINE, LIGHT COLOURED, CRYSTALLINE								
318.5	381	ANGIOLIDAL BASALT	RED, CARBONATED AMYGDULES, DARK BLUE AND GREEN IN SECTIONS BRECCIATED 372.5-374, CALCITIC								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



Ontario

Ministry of Natural Resources

Diamond Drilling Log

Fill in on every page

Hole No. 7 Page No. 1

Drilling Company NEARCTIC RESOURCES INC.		Collar Elevation	Bearing of hole from true North 90	Total Footage 172	Dip of Hole at Collar 45°	Location of hole in relation to a fixed point on the claim. L1NE 55W-10+00S	Map Reference No.	Claim No. L.O. 74905
Date Hole Started SEPT 13, 1984	Date Completed SEPT. 20, 1984	Date Logged MAY 27/85	Logged by C. COOK, G. SCOTT		Fl.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee NEARCTIC RESOURCES INC.		Date Submitted JUNE 28/84	Submitted by (Signature) <i>[Signature]</i>		Fl.			
					Fl.			Property Name MICHIPICOTEN

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
0	3.5	CASING THROUGH OVERBURDEN									
3.5	5.8	CONGLOMERATE	RED, 3MM CLASTS, MUD MATRIX, CARBONATE "AMYGDALOIDS"								
5.8	11	BASALT	GREEN, FINE GRAINED, MASSIVE AND AMYGDALOIDAL.								
11	20	CONGLOMERATE	RED, 1 CM CLASTS, POLYMIC TIC, TRACE CHALCOPYRITE.								
20	22.5	SANDSTONE	RED, CALCITE VEINLETS, CARBONATED.								
22.5	24.5	MUDSTONE	BROWN, FLOW BANDED, CARBONATE PORPHYROBLASTS.								
24.5	60	SANDSTONE	AS ABOVE CARBONATED								
60	62	MUDSTONE	AS ABOVE								
62	66	CARBONATE	CARBONATIZED MUDSTONE, REDDISH								
66	79.5	MUDSTONE	FINE GRAINED								
79.5	91.5	MUDSTONE	MEDIUM GRAINED, INCREASED CLASTIC CONTENT, CARBONATE VEINLETS								
91.5	113	BRECCIA	CARBONATE RICH MATRIX, MUDSTONE FRAGMENTS								
113	124	CONGLOMERATE (?)	BRECCIATED, MUDSTONE CLASTS, CARBONATE RICH VEINLETS AND MATRIX								
124	128	SANDSTONE	FINE, REDDISH, TO 2MM CLASTS.								
128	138.5	AMYGDALOIDAL BASALT	REDDISH, CARBONATE AMYGDULES AND VEINLETS								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

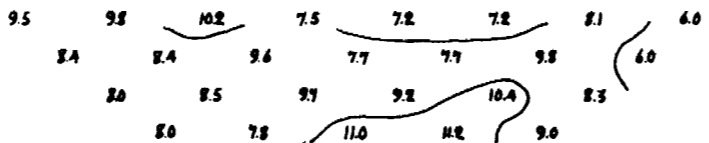
† Additional credit available. See Assessment Work Regulations.

10005 9005 8005 7005 6005 5005 4005 3005 2005 1005 0



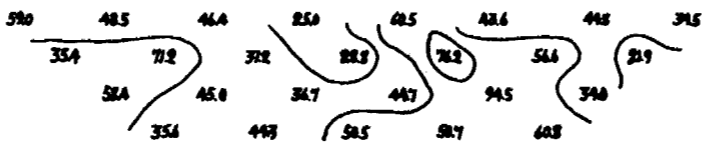
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N=2
N=3
N=4
N=5

FREQUENCY EFFECT (APP) IN %



N=1
N=2
N=3
N=4
N=5

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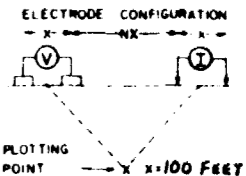


N=1
N=2
N=3
N=4
N=5

LAKE

COMPANY: NEARTIC RESOURCES INC.
PROPERTY: MICHICOMM COPPER
WAWA, ONTARIO

LINE NO - 6 W



SURFACE PROJECTION OF ANOMALOUS ZONES FREQUENCIES 25 & 40

DEFINITE
PROBABLE
POSSIBLE

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

INSTRUMENT: PHOENIX IPT 1
CONTRACTOR: REMY BELANGER ENRG

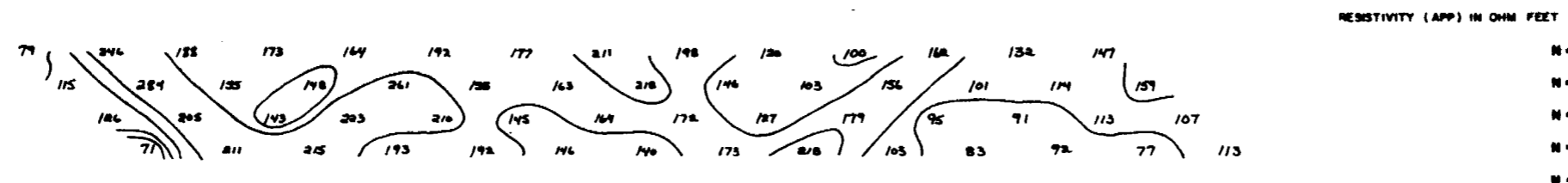
DATE SURVEYED: JUNE 16 1984
APPROVED: _____

OPERATOR: ANDRE FAUBERT

DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

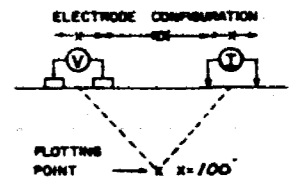
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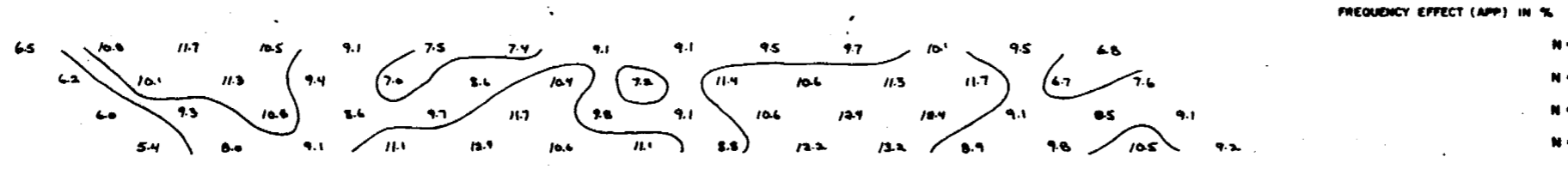
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N=3
N=4
N=5

COMPANY: NEARTIC RESOURCES INC.
PROPERTY: MICHIPICATED COPPER
WARRIA, ONTARIO

LINE NO - 14100W



16005 15005 14005 13005 12005 11005 10005 9005 8005 7005 6005 5005 4005 3005 2005 1005 0 1000 2000 3000



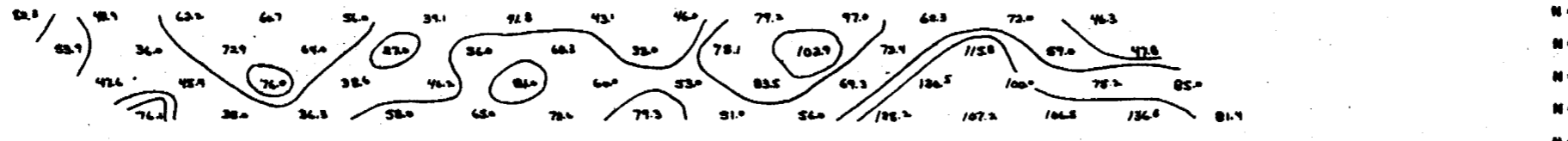
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N=2
N=3
N=4
N=5

SURFACE PROJECTION OF ANOMALOUS ZONES
DEFINITE ————
PROBABLE |||||
POSSIBLE ////

FREQUENCIES 250, 40, 11.2

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 100

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N=1
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N=3
N=4
N=5

INSTRUMENT: PHOENIX IPV-1
IPT-1

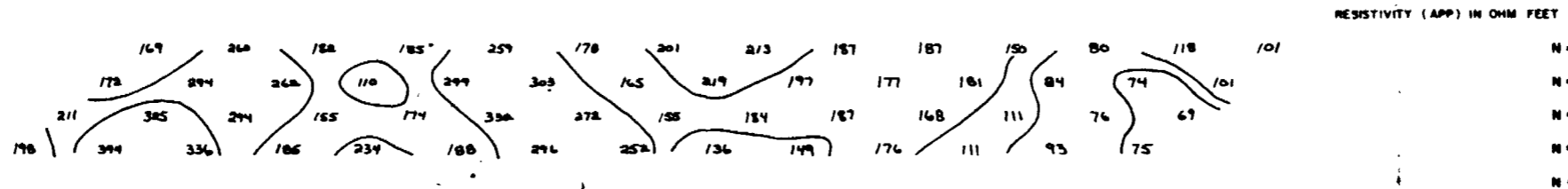
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DATE SURVEYED: JUNE 16-1989

OPERATOR: Remy Belanger

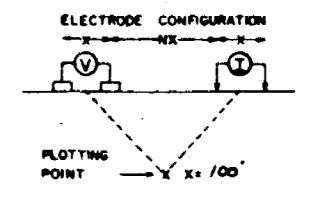
INDUCED POLARIZATION AND RESISTIVITY SURVEY

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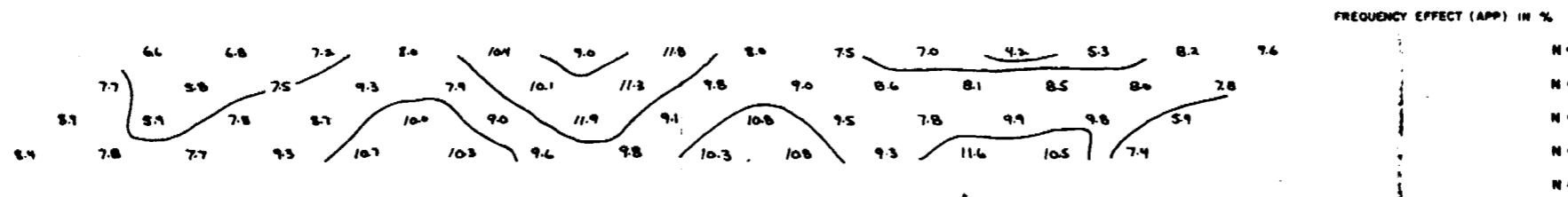


COMPANY: NEARTIC RESOURCES INC.
 PROPERTY: MICHIPICATEN COPPER
WAWA, ONTARIO

LINE NO - 22700W



19005 18005 17005 16005 15005 14005 13005 12005 11005 10005 9005 8005 7005 6005 5005 4005 3005 2005 1005 0



SURFACE PROJECTION OF ANOMALOUS ZONES
 DEFINITE ————
 PROBABLE |||||
 POSSIBLE ////

FREQUENCIES: 250 40 Hz

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

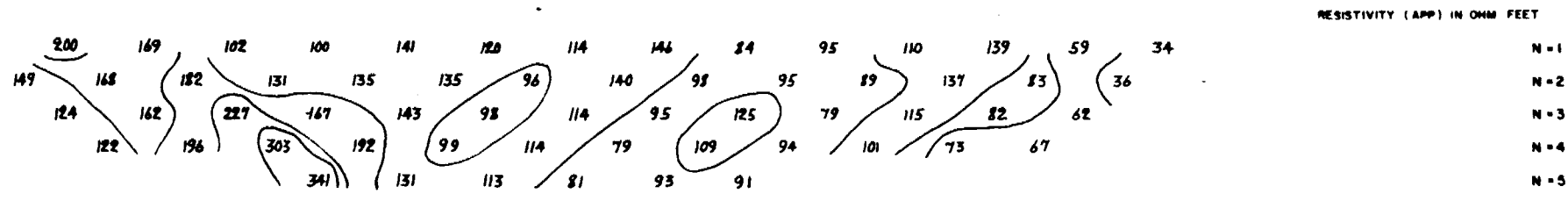
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INSTRUMENT PHOENIX IPV-1
 IPT-1
 CONTRACTOR REMY BELANGER ENRG
 DATE SURVEYED JUNE 18, 1984
 OPERATOR Remy Belanger DATE _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

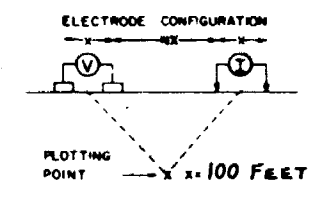
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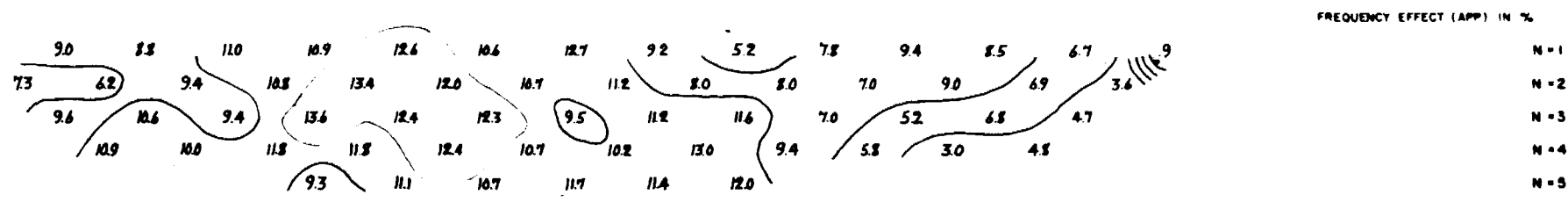
N-1
N-2
N-3
N-4
N-5

COMPANY: NEARTIC RESOURCES INC.
PROPERTY: MICHIPICOTEN COPPER
WAWA, ONTARIO

LINE NO - 28 W



2100S 2000S 1900S 1800S 1700S 1600S 1500S 1400S 1300S 1200S 1100S 1000S 900S 800S 700S 600S 500S 400S 300S 200S 100S 0



N-1
N-2
N-3
N-4
N-5

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ———

PROBABLE |||||

POSSIBLE / / / /

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 3.75, 100

INSTRUMENT PHOENIX IPV-1 IPT-1

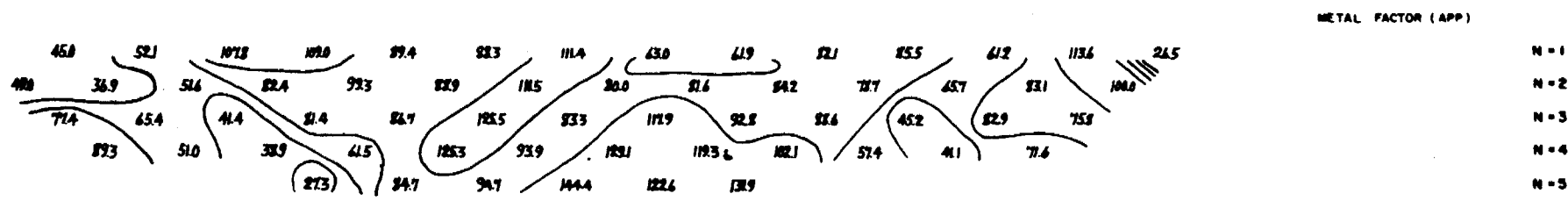
CONTRACTOR REMY BELANGER ENRG

DATE SURVEYED JUNE 14-15 1984

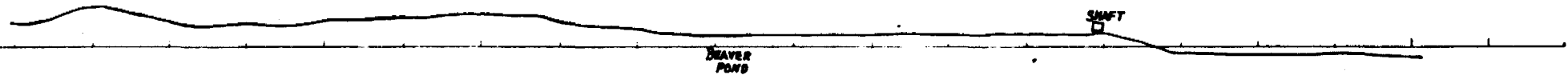
OPERATOR ANDRE FAURET

FREQUENCIES 25 & 4.0

2100S 2000S 1900S 1800S 1700S 1600S 1500S 1400S 1300S 1200S 1100S 1000S 900S 800S 700S 600S 500S 400S 300S 200S 100S 0



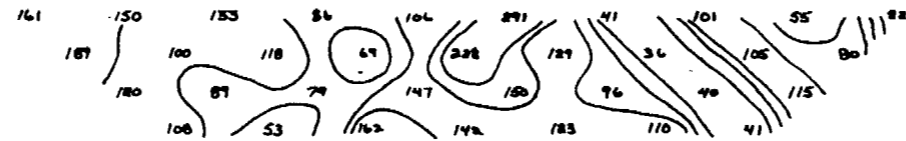
N-1
N-2
N-3
N-4
N-5



INDUCED POLARIZATION AND RESISTIVITY SURVEY

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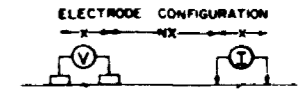
RESISTIVITY (APP) IN OHM FEET



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N=2
N=3
N=4
N=5

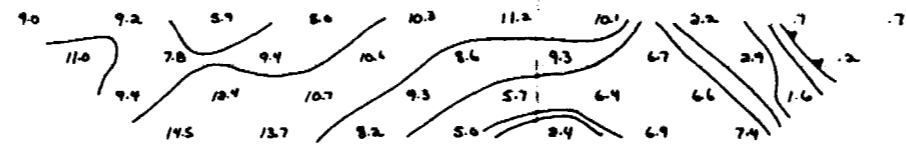
COMPANY: NEARTIC RESOURCES INC.
PROPERTY: MICHIGIQUEN COPPER
WAWA, ONTARIO

LINE NO - 3520AW



PLOTTING POINT X=100

FREQUENCY EFFECT (APP) IN %



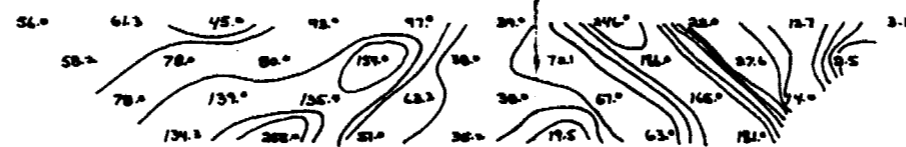
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N=2
N=3
N=4
N=5

SURFACE PROJECTION OF ANOMALOUS ZONES
FREQUENCIES 0.25 & 4.0 HZ.

DEFINITE ————
PROBABLE |||||
POSSIBLE ////
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

13000 11000 10000 9000 8000 7000 6000 5000 4000 3000 2000 1000 0

METAL FACTOR (APP)



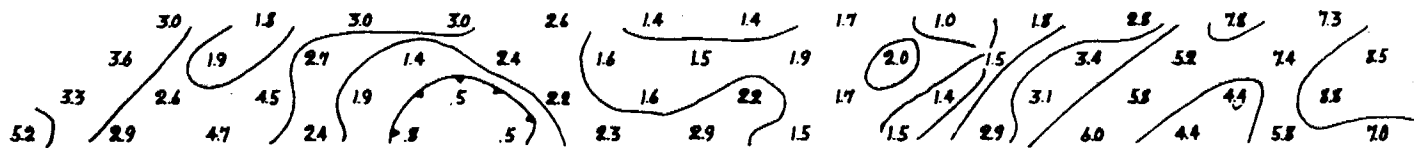
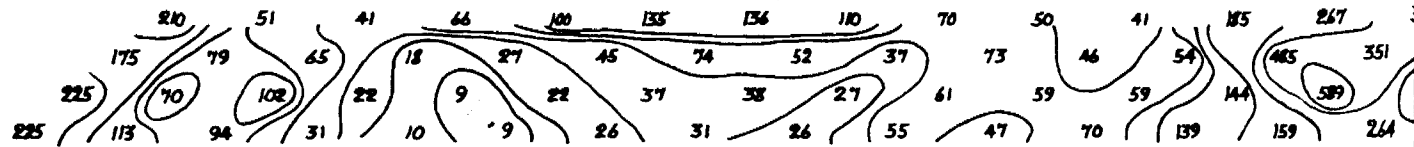
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N=2
N=3
N=4
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INSTRUMENT: PHOENIX IPV-1
CONTRACTOR: REMY BELANGER ENRG
DATE SURVEYED: JULY 14 - 1984
APPROVED: _____

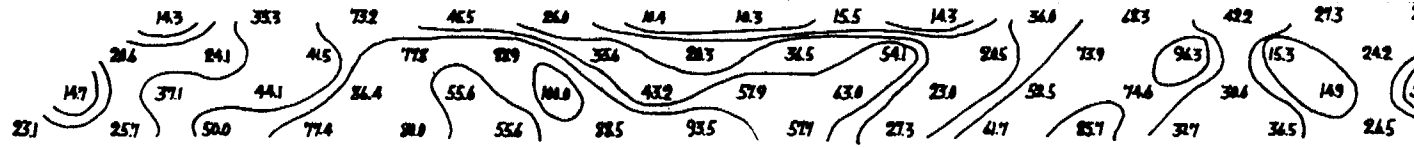
OPERATOR: RAY BELANGER DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

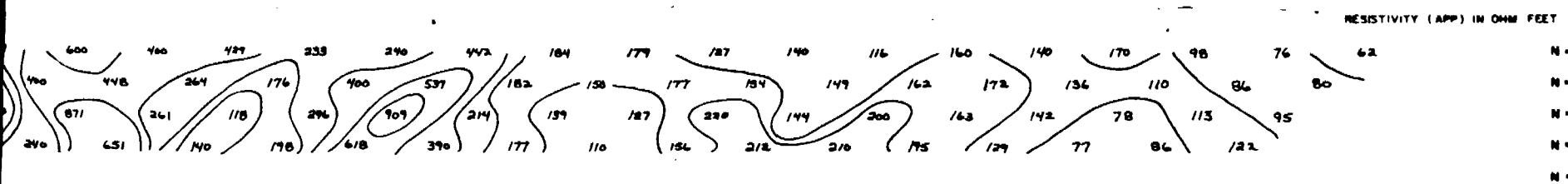
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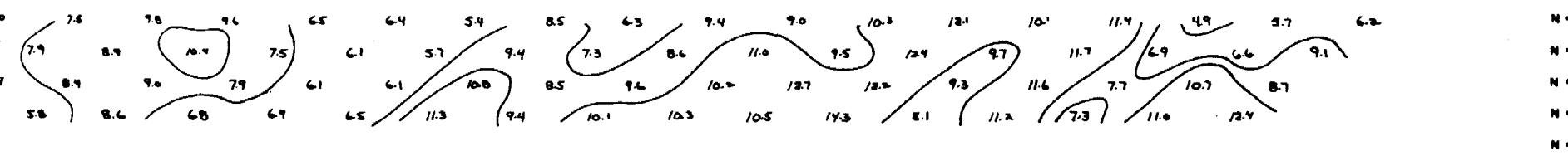
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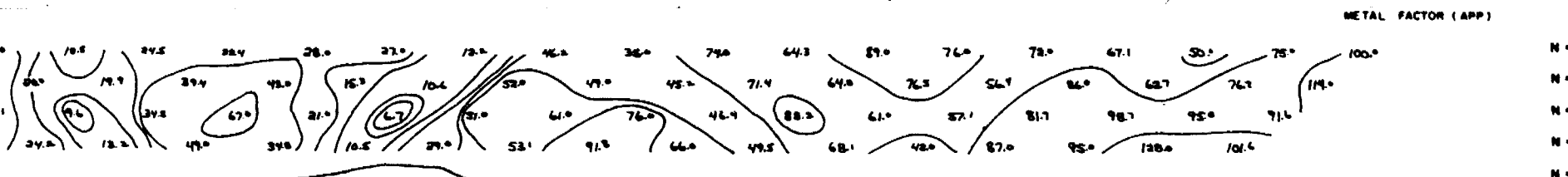
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3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000

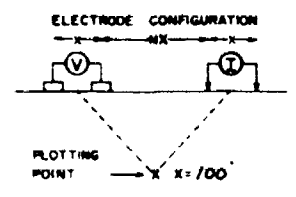


3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000



COMPANY: NEARTIC RESOURCES INC.
 PROPERTY: MICHIGOTEN COPPER
UAWA, ONTARIO

LINE NO - 5400W



SURFACE PROJECTION OF ANOMALOUS ZONES
 DEFINITE ————
 PROBABLE |||||
 POSSIBLE ////

FREQUENCIES 256 H.Z.

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 3.75, 10.0

INSTRUMENT: PHOENIX IPV-1
 IPT-1

CONTRACTOR: REMY BELANGER ENRG

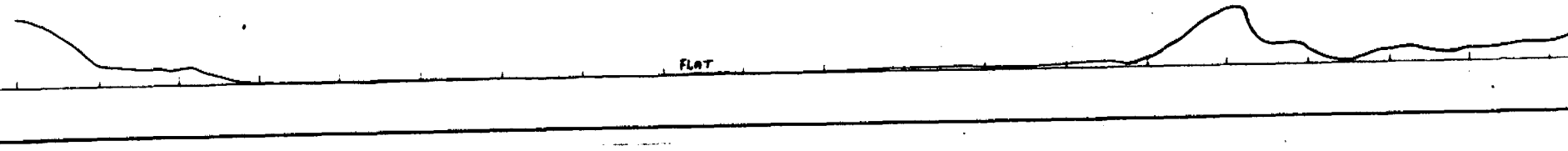
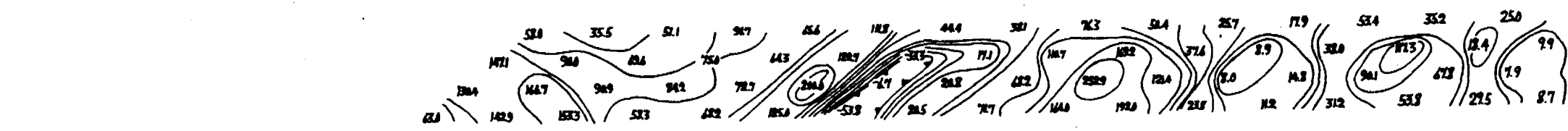
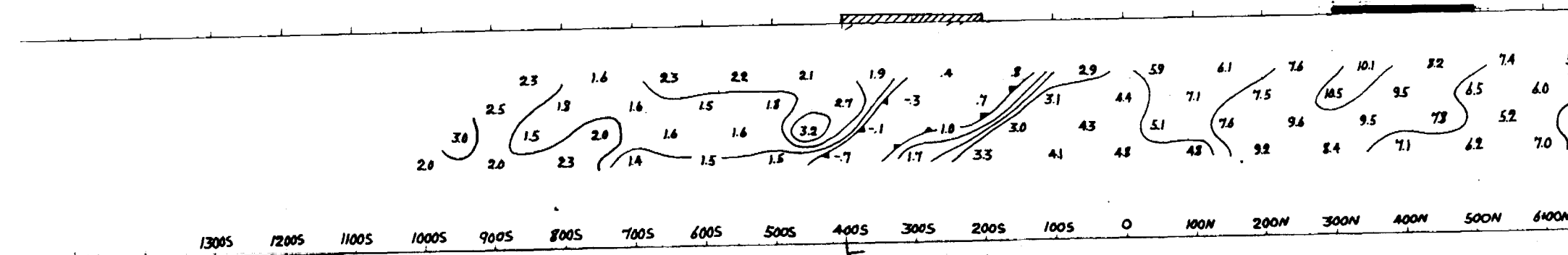
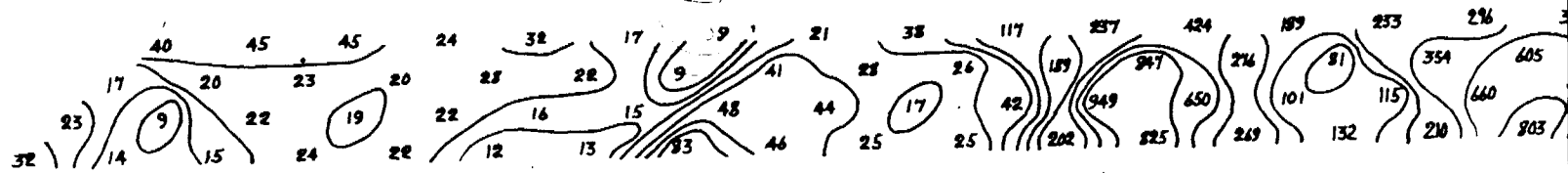
DATE SURVEYED: JUNE 15-17, 1984

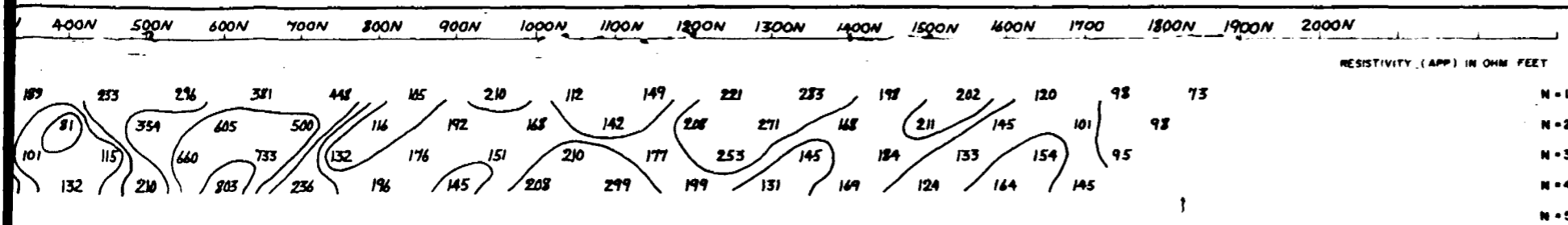
APPROVED: _____

OPERATOR: SEYM BALANER DATE: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

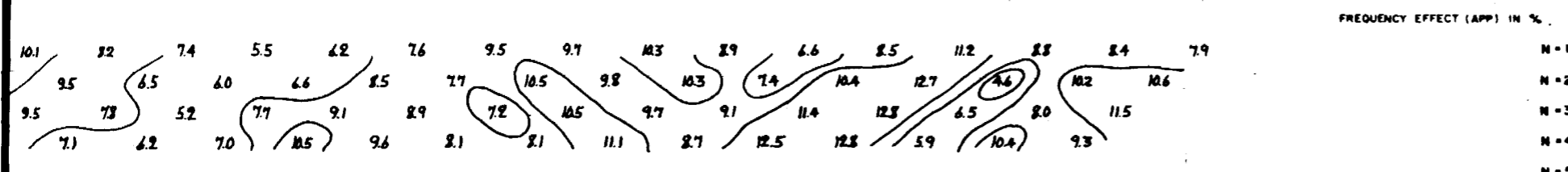
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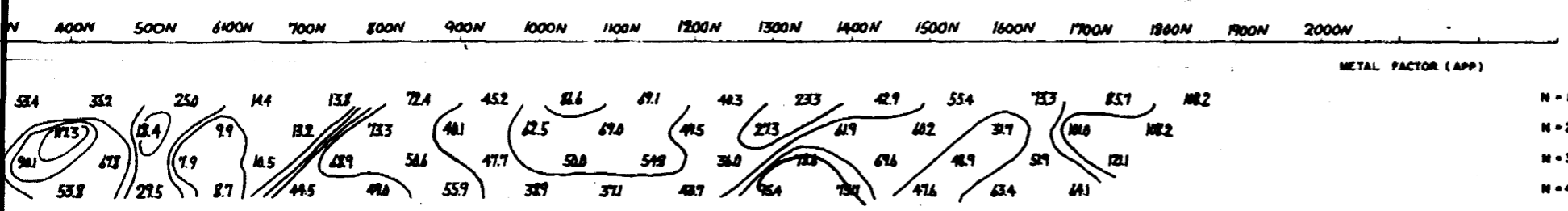
RESISTIVITY (APP) IN OHM FEET

N-1
N-2
N-3
N-4
N-5



FREQUENCY EFFECT (APP) IN %

N-1
N-2
N-3
N-4
N-5

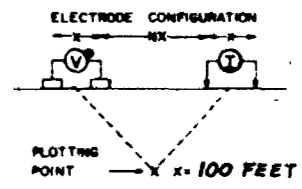


METAL FACTOR (APP)

N-1
N-2
N-3
N-4
N-5

COMPANY: ARCTIC RESOURCES INC.
PROPERTY: MICHIPICOTEN COPPER
WAWA ONTARIO

LINE NO - 60W



SURFACE PROJECTION OF ANOMALOUS ZONES FREQUENCIES 25 & 40

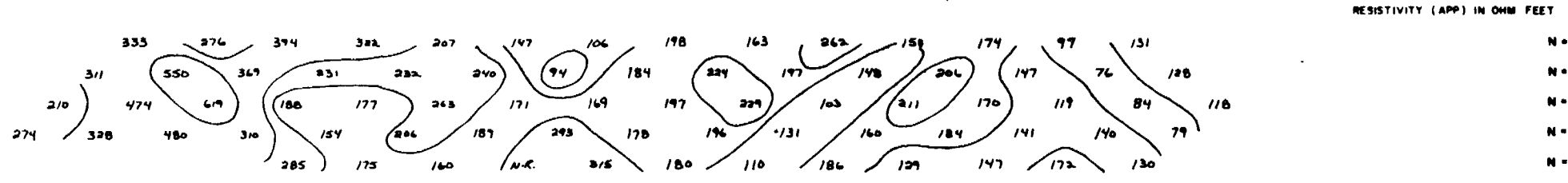
DEFINITE ————
PROBABLE |||||
POSSIBLE ////

NOTE CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10, 0

INSTRUMENT PHOENIX IPV-1
CONTRACTOR REMY BELANGER ENRG.
DATE SURVEYED JUNE 11-13-17 1983
OPERATOR ANDRE FAUBERT

**INDUCED POLARIZATION
AND RESISTIVITY SURVEY**

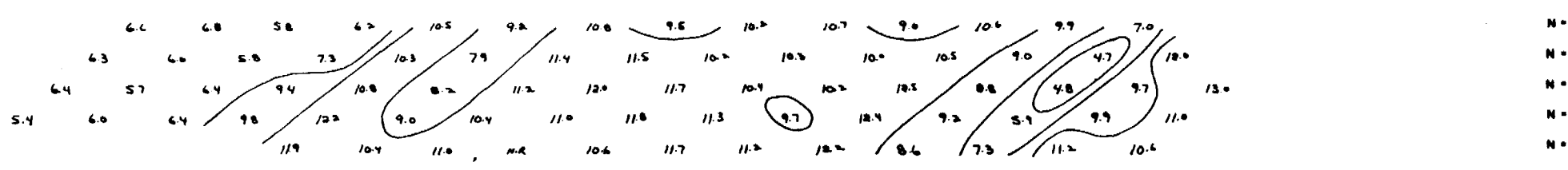
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RESISTIVITY (APP) IN OHM FEET

N=1
N=2
N=3
N=4
N=5

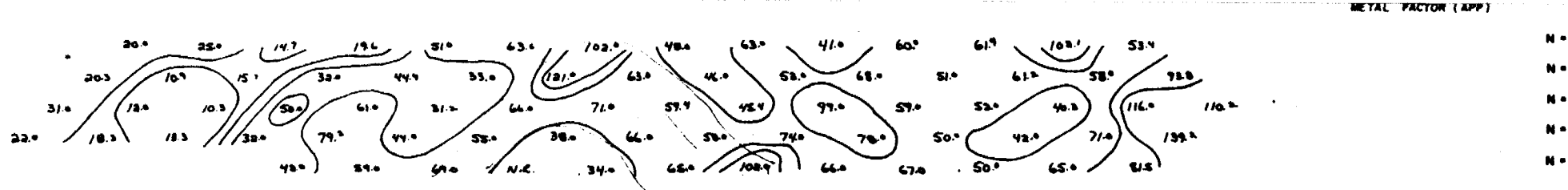
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FREQUENCY EFFECT (APP) IN %

N=1
N=2
N=3
N=4
N=5

005 21005 11005 0 1100N 2100N 3100N 4100N 5100N 6100N 7100N 8100N 9100N 10100N 1100N 12100N 13100N 14100N 15100N 16100N 17100N 18100N 19100N 20100N

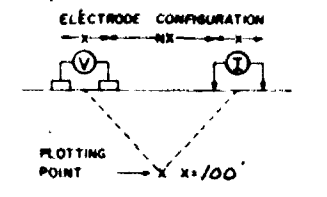


METAL FACTOR (APP)

N=1
N=2
N=3
N=4
N=5

COMPANY: NEARTIC RESOURCES INC.
PROPERTY: MICHIPICOTEN COPPER
WAWA, ONTARIO

LINE NO - 64200W

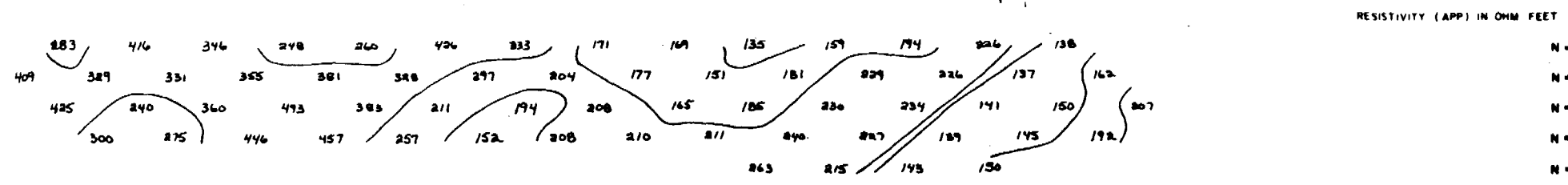


SURFACE PROJECTION OF ANOMALOUS ZONES
DEFINITE —————
PROBABLE |||||
POSSIBLE ////
FREQUENCIES 25 & 4.8 HZ.
NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

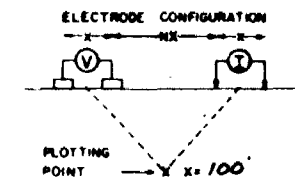
INSTRUMENT: PHOENIX IPV-1 (PT-1)
CONTRACTOR: REMY BELANGER ENRG
DATE SURVEYED: June 11
OPERATOR: Remy Belanger DATE: _____
APPROVED: _____

INDUCED POLARIZATION AND RESISTIVITY SURVEY

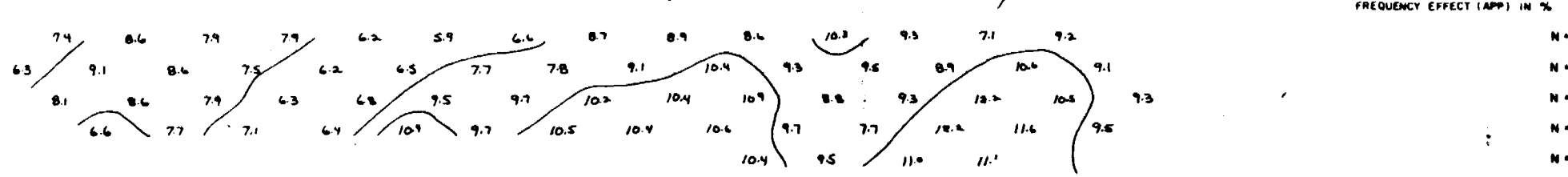
24005 14005 0 1100N 2100N 3100N 4100N 5100N 6100N 7100N 8100N 9100N 10100N 11100N 12100N 13100N 14100N 15100N 16100N 17100N 18100N



COMPANY: NEARTIC RESOURCES INC.
 PROPERTY: MICHIPICOTEN COPPER
WAWA, ONTARIO
 LINE NO - 67100W

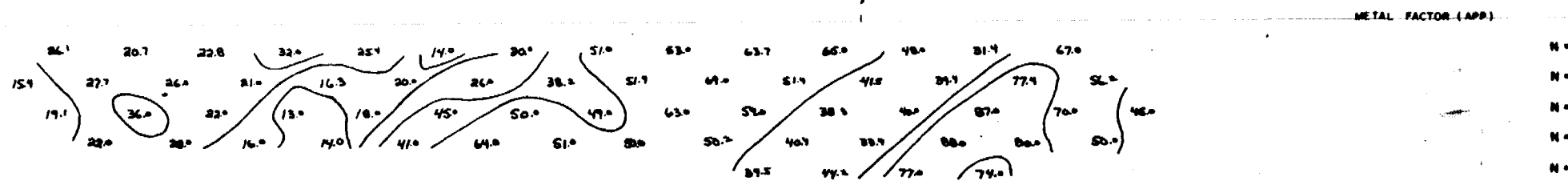


24005 14005 0 1100N 2100N 3100N 4100N 5100N 6100N 7100N 8100N 9100N 10100N 11100N 12100N 13100N 14100N 15100N 16100N 17100N 18100N



SURFACE PROJECTION OF ANOMALOUS ZONES
 DEFINITE _____
 PROBABLE |||||
 POSSIBLE ////
 FREQUENCIES: 25 & 4.0 HZ
 NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1, 1.5, 2, 3, 5, 7.5, 10.0

24005 14005 0 1100N 2100N 3100N 4100N 5100N 6100N 7100N 8100N 9100N 10100N 11100N 12100N 13100N 14100N 15100N 16100N 17100N 18100N



INSTRUMENT: PHOENIX IPV15 IPT-1
 CONTRACTOR: Remy Belanger ENG
 DATE SURVEYED: JUNE 11-1984
 OPERATOR: Remy Belanger

SUPERIOR LANE

SUPERIOR LANE

INDUCED POLARIZATION AND RESISTIVITY SURVEY



Recorded Holder
NEARCTIC RESOURCES INC

Township or Area
MICHIPICOTEN ISLAND AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p>	<p>\$4,715.00 SPENT ON ANALYSES OF SAMPLES TAKEN FROM E.L.O. 14905.</p>
<p>Section 77 (19) See "Mining Claims Assessed" column</p>	
<p>Geological _____ days</p>	<p>314 ASSESSMENT WORK DAYS ARE ALLOWED.</p>
<p>Geochemical _____ days</p>	
<p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p>	
<p>Special provision <input type="checkbox"/> Ground <input type="checkbox"/></p>	
<p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder NEARCTIC RESOURCES INC
Township or Area MICHIPICOTEN ISLAND AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	E.L.O. 14905
Electromagnetic <u>VLF</u> <u>0</u> days	
Magnetometer <u>0</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Other <u>I.P.</u> <u>483</u> days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical <u>1176</u> days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

NO CREDIT FOR THE ELECTROMAGNETIC AND MAGNETOMETER SURVEYS AS PLANS AND REPORTS SHOWING REQUESTED INFORMATION WERE NOT RETURNED TO THIS OFFICE.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

July 2, 1986

Your File: 110-85
Our File: 2.8487

Mining Recorder
Ministry of Northern Development and Mines
875 Queen Street East
Box 669
Sault Ste. Marie, Ontario
P6A 2B3

Dear Madam:

RE: Geophysical (Electromagnetic, Magnetometer and I.P.)
and Geochemical Surveys on E.L.O. 14905 in the Area
of Michipicoten Island

The assessment work credits, as listed on the enclosed statements,
have been approved as of the above date.

Please inform the recorded holder accordingly.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Nearctic Resources Inc
2275 Doulton Drive
Mississauga, Ontario
L5H 3M2

Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Encl.

July 2, 1986

Our File: 2.8487

Nearctic Resources Inc
2275 Doulton Drive
Mississauga, Ontario
L5H 3M2

Dear Sirs:

RE: Geophysical (Electromagnetic, Magnetometer and I.P.)
and Geochemical Surveys on E.L.O. 14905 in the Area
of Michipicoten Island

An examination of your survey submission indicates that the requirements of the Mining Act R.S.O. 1980 have not been fully met to warrant maximum assessment work credits. The Mining Recorder has been authorized to change the entries on the record sheets to agree with the enclosed statements.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Mining Recorder
Sault Ste. Marie, Ontario
#110-85

Encl.

- I asked Dr. J. Fortescue if he could estimate how many soil samples one man could collect in one day, where the lines are flagged, pace + compass, and samples every 100 feet.
- He indicated anywhere from 20 to 50 samples, with an average of 35 samples under average conditions.
- There appear to be 5872 samples collected.
 $5872 \div 35 \rightarrow 168$ days.
 $168 \times 7 = \underline{1176}$ days.

-
- The I.P. Survey was carried out on cut lines, dipole-dipole array with 100 foot electrode separations. Readings were taken to a spread of $N=4$. Instrument was a Phoenix IPV-1 (+1FT-1).
 - Roger Barlow says it would take 4 days to cover one mile in average conditions. They would most likely have four men to a crew.
 - I worked out a total of 4.32 miles covered.
 $\therefore 4 \text{ men} \times 4.32 \text{ miles} \times 4 \text{ days} = 69 \text{ mandays.}$
 $69 \times 7 = \underline{483}$ days.

Dennis King
June 26, 1986.

Price Waterhouse



THE DIRECTOR
Mining Taxation &
OMEP Office

October 8, 1985

OCT 28 1985

RECEIVED
MINISTRY OF NATURAL RESOURCES

AUDITORS' REPORT

To the Directors of
Nearctic Resources Inc.:

We have examined the statement of Canadian eligible exploration expenses (as defined by the Ontario Mineral Exploration Program Act, 1980 ("the Act")) of Nearctic Resources Inc. for the period from February 22, 1984 to December 31, 1984. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, this statement presents fairly the Canadian eligible exploration expenses incurred and paid for by the Company during the period from February 22, 1984 to December 31, 1984 in accordance with generally accepted accounting principles and the terms of the Act.

Price Waterhouse

Chartered Accountants

RECEIVED

MAY 13 1986

From O.M.E.P.

MINING LANDS SECTION

NEARCTIC RESOURCES INC.

STATEMENT OF CANADIAN ELIGIBLE EXPLORATION EXPENSES

FOR THE PERIOD FROM FEBRUARY 22, 1984 TO DECEMBER 31, 1984

Wages	\$ 43,892
Field supplies and expenses	38,332
Travel and transportation	26,346
Engineering	11,714
Geophysical surveys	8,491
Assaying	4,715
Line cutting	2,000
Equipment maintenance	1,006
Camp costs	1,049
Depreciation	<u>10,780</u>
	<u>\$148,325</u>

Note: This statement of Canadian eligible exploration expenses has been prepared for the purpose of obtaining a grant under the Ontario Mineral Exploration Program Act, 1980 for expenditures incurred and paid for by the Company under its designated program of mineral exploration.

REGISTERED

May 9, 1986

File: 2.8487

Nearctic Resources Inc.
2275 Doulton Drive
Mississauga, Ontario
L5H 3M2

Dear Sirs:

RE: E.L.O. 14905 Michipicoten Island

Enclosed is a copy of our letter dated November 8, 1985, requesting additional information and a copy of our registered letter dated January 21, 1986, again requesting the additional information. Mr. Hamilton of Nearctic Resources telephoned this office on January 27, 1986 and stated that the material would be forthcoming. As of this date, this material has not been received.

Unless you can provide the data by May 20, 1986 we will have no alternative but to instruct the Mining Recorder to cancel the work credits recorded July 12, 1985.

For further information, please contact Susan Hurst at (416)965-4888.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Mining Recorder
Sault Ste. Marie, Ontario
#110

Encl.

*Mr. Hamilton
called → will
approach Fenton
Scott regarding
compliance
R. 86.05.13.*

REGISTERED

January 21, 1986

File: 2.8487

Nearctic Resources Inc
2275 Doulton Drive
Mississauga, Ontario
L5H 3M2

Void

Dear Sirs:

RE: E.L.O. 14905 in Michipicoten Island

Enclosed is a copy of our letter dated November 8, 1985 requesting additional information for the above-mentioned submission.

Unless you can provide the required data by January 31, 1986 I will have no other alternative but to instruct the Mining Recorder to cancel the work credits recorded on July 12, 1985.

For further information, please contact Mr. Ray Pichette at (416)965-4888.

Yours sincerely,

*- Hold still
- further notice
- Mr. Hamulton
- of Nearctic has
inform me that
work up grade
will be done
soon.*

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

SH/mc

cc: Mining Recorder
Sault Ste. Marie, Ontario
#110

Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Encl.

*R
86-01-27*

November 8, 1985

File: 2.8487

Nearctic Resources Inc.
2275 Doulton Drive
Mississauga, Ontario
L5H 3M2

Dear Sirs:

RE: Report and Maps submitted as required
under the terms of E.L.O. 14905
Michipicoten Island

The above-described reports has been reviewed, and the following information is required in order to complete your submission.

- 1) completion of the enclosed "Man-days" breakdown form
- 2) cancelled cheques or receipts as verification of the \$14,533.35 expenditure credits claimed
- 3) grid locations for both the Schafer Bay Grid and Quebec Mine Grid
- 4) on the enclosed VLF plan show profile scale and legend; and legend on the mag plan
- 5) an addition to the report stating type of magnetometer and VLF instruments used
- 6) a key map showing the location of the grid lines in relation to the remainder of the island

When submitting this material, please quote file 2.8487.

...2

Page 2
Nearctic Resources Inc.
November 8, 1985

For further information, please contact Mr. Ray Pichette
at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

SH/mc

cc: Mining Recorder
Sault Ste. Marie, Ontario

Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Encl.



RUSH/URGENT

File 2.8487

Mining Lands Comments

This is a submission for compliance of a Exploratory License of Occupation on the Michipicoten Island.

Your comments please.

Ray Pichette

To: Geophysics Mr. Roger Barton

Comments

Roger. please see page 2 of report.

- IP interpretation on P2 is ok
- THE VLF Plan. has no legend & profile scale
- For VLF & mag survey they did not mention the kind of instruments they used

Approved Wish to see again with corrections Date Oct 23/85 Signature [Signature]

To: Geology - Expenditures Mr. Clarence Kustra

Comments

Ask for grid locations

- ① Schaffer Bay Grid
- ③ Quebec Mine Grid

Approved Wish to see again with corrections Date Nov. 4/85 Signature C/Kustra

To: Geochemistry Dr. J. Fortesque

Comments

The geophysical maps are acceptable but the report on geochemistry is too brief

RECEIVED
OCT 10 1985
MINING LANDS SECTION

Approved Wish to see again with corrections Date Oct 25th 1985 Signature [Signature]

To: Mining Lands Section, Room ⁶⁶¹⁰ 6462, Whitney Block. (Tel: 5-1380)



Action Memo

Time 2.50

Date 30, 9, 83

To Arthur

From (Name and) Lenora Scott - Grato

I.C.N. No. Area Code Telephone No. Ext. Message Taken by
444-1717 SJD

Phoned On Hold Please Call Returned Your Call Will Call Back Wishes Appointment Waiting in Person Will Return Was Here

- File
- Draft Reply For My Signature
- Provide More Details
- For Your Information
- Type Draft
- For Your Approval and Signature
- Keep Me Informed
- Per Discussion
- Type Final
- Circulate, Initial and Return
- Take Appropriate Action
- Per Your Request
- Make Copies
- Return With Comments
- Note and See Me
- Returned With Thanks
- Please Answer
- Investigate and Report
- Note and Return

Comments:
 → Row. 110
 S.S.M.
 - sent stuff to AMEP.

Over

1985 09 20

Report of Work #110

Mining Recorder
Ministry of Natural Resources
875 Queen Street East
Box 669
Sault Ste. Marie, Ontario
P6A 5N2

Dear Madam:

RE: E.L.O. 14905
in the Area of Michipicoten

The survey reports and maps were not submitted to the Minister within the time prescribed by Exploratory Licence of Occupation number 14905.

You are hereby authorized to delete the work credits recorded on July 12, 1985 from the Exploratory Licence of Occupation record sheet.

Please inform the recorded holder accordingly.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

A. Barr:mc

cc: Nearctic Resources Inc
2275 Doulton Drive
Mississauga, Ontario
L5H 3M2

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Encl.

October 3, 1985

File: 2.8487

Mining Recorder
Ministry of Northern Affairs and Mines
199 Larch Street
Sudbury, Ontario P3E 5P9 SSM

Dear Sir:

RE: E.L.O. 14905
in the Area of Michipicoten

Please disregard my deletion letter of September 20,
1985 cancelling credits for work performed on the above
mentioned licence.

The reports and maps were originally submitted to the
OMEP Office and a copy has now been delivered to us.

I apologize for any inconvenience this may have caused.

Yours sincerely

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park, Toronto
M7A 1W3
Telephone: 416/965-4888

RP:sc

cc: Nearctic Resources Inc
2275 Doulton Drive
Mississauga, Ontario
L5H 3M2

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

R-5482

R-5482

AREA OF
MICHIPICOTEN ISLAND
DISTRICT OF
THUNDER BAY
SAULT STE MARIE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PAVED LAND
- CROWN LAND SALE
- LOCATED LAND
- LICENCE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKES
- MINES

NOTES

Land Under Water Lake Superior Withdrawn from Staking By Order in Council Dated April 30, 1912
Locations A, S, Y26, Y27 & Y28 shown in approximate position only

AREAS WITHDRAWN FROM DEPOSITATION

- M.B.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.S. - MINING AND SURFACE RIGHTS

Department: _____ Date: _____
Drawing No.: _____ Title: _____
Scale: _____

MINERAL FILE NUMBER:
MINERAL FILE NUMBER:
MINERAL FILE NUMBER:
MINERAL FILE NUMBER:

Ontario
BAY, OCTOBER 1912

SUPERIOR

LAKE

EXPLORATORY LICENCE OF OCCUPATION # 14903

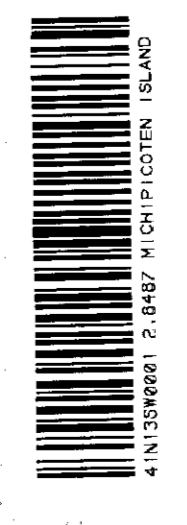
MICHIPICOTEN ISLAND PROVINCIAL PARK

EXPLORATORY LICENCE OF OCCUPATION # 14903

Section B and C added to District of Mines and Fisheries Order O.C. 6186 5 July 1976 File 223980 Parcel C transferred to Ontario. File 13195

District of Mines and Fisheries Order O.C. 6186 5 July 1976 File 223980 Parcel C transferred to Ontario. File 13195

E10

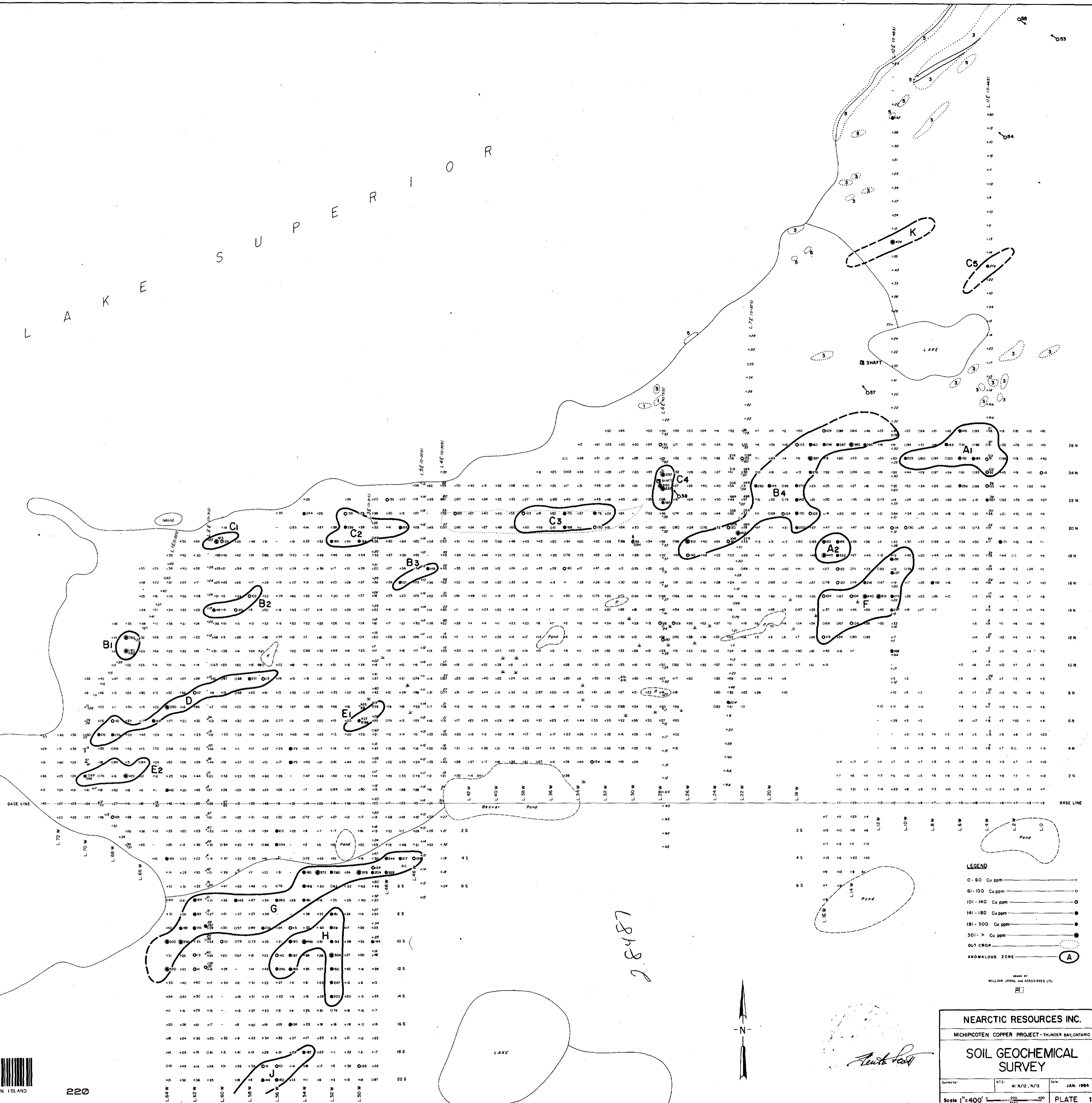


4N132881 2 5867 MICHIPICOTEN ISLAND

R-5482

R-5482

L A K E S U P E R I O R



LEGEND

- 0 - 60 Cu ppm ————
- 61 - 100 Cu ppm ○
- 101 - 140 Cu ppm ○
- 141 - 180 Cu ppm ○
- 181 - 300 Cu ppm ○
- 301 - > Cu ppm ○
- OUT CROP ○
- ANOMALOUS ZONE ○

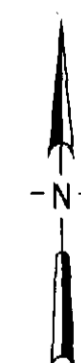
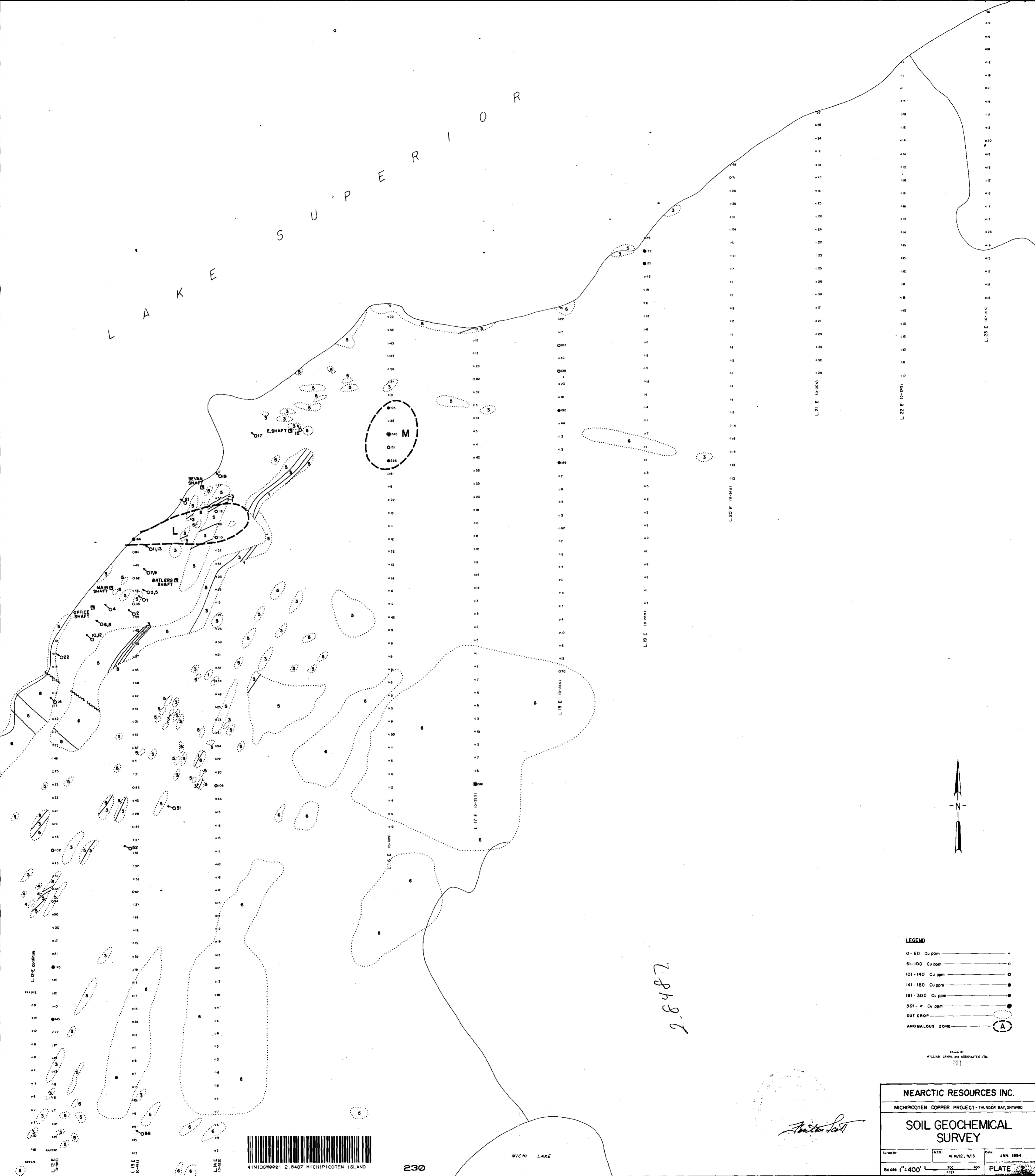
NEARCTIC RESOURCES INC.
 MICHIPICOTEN COPPER PROJECT - THUNDER BAY, ONTARIO
SOIL GEOCHEMICAL SURVEY

Survey by: NTS: 41 N/2, N/13 Date: JAN. 1984
 Scale 1" = 400' FEET PLATE 1



28487

L A K E S U P E R I O R



LEGEND

0 - 60 Cu ppm	○
61 - 100 Cu ppm	○
101 - 140 Cu ppm	○
141 - 180 Cu ppm	○
181 - 300 Cu ppm	○
301 - > Cu ppm	○
OUT CROP	○
ANOMALOUS ZONE	○

NEARCTIC RESOURCES INC.
 MICHIPICOTEN COPPER PROJECT - THUNDER BAY, ONTARIO

SOIL GEOCHEMICAL SURVEY

Scale 1"=400' FEET

DATE: 41 N/12, N/13

DATE: JAN. 1984

PLATE



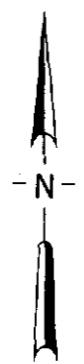
L A K E S U P E R I O R



28487

LEGEND

- 0 - 60 Cu ppm ————
- 61 - 100 Cu ppm ————
- 101 - 140 Cu ppm ————
- 141 - 180 Cu ppm ————
- 181 - 300 Cu ppm ————
- 301 - > Cu ppm ————



MADE BY
WILLIAM JAMAL AND ASSOCIATES LTD.

NEARCTIC RESOURCES INC.	
MICHIPICOTEN COPPER PROJECT - THUNDER BAY, ONTARIO	
SOIL GEOCHEMICAL SURVEY	
Survey by:	NTS 41 N/12, N/13 Date: JAN. 1984
Scale 1" = 400'	PLATE 3



NEARCTIC RESOURCES INC.

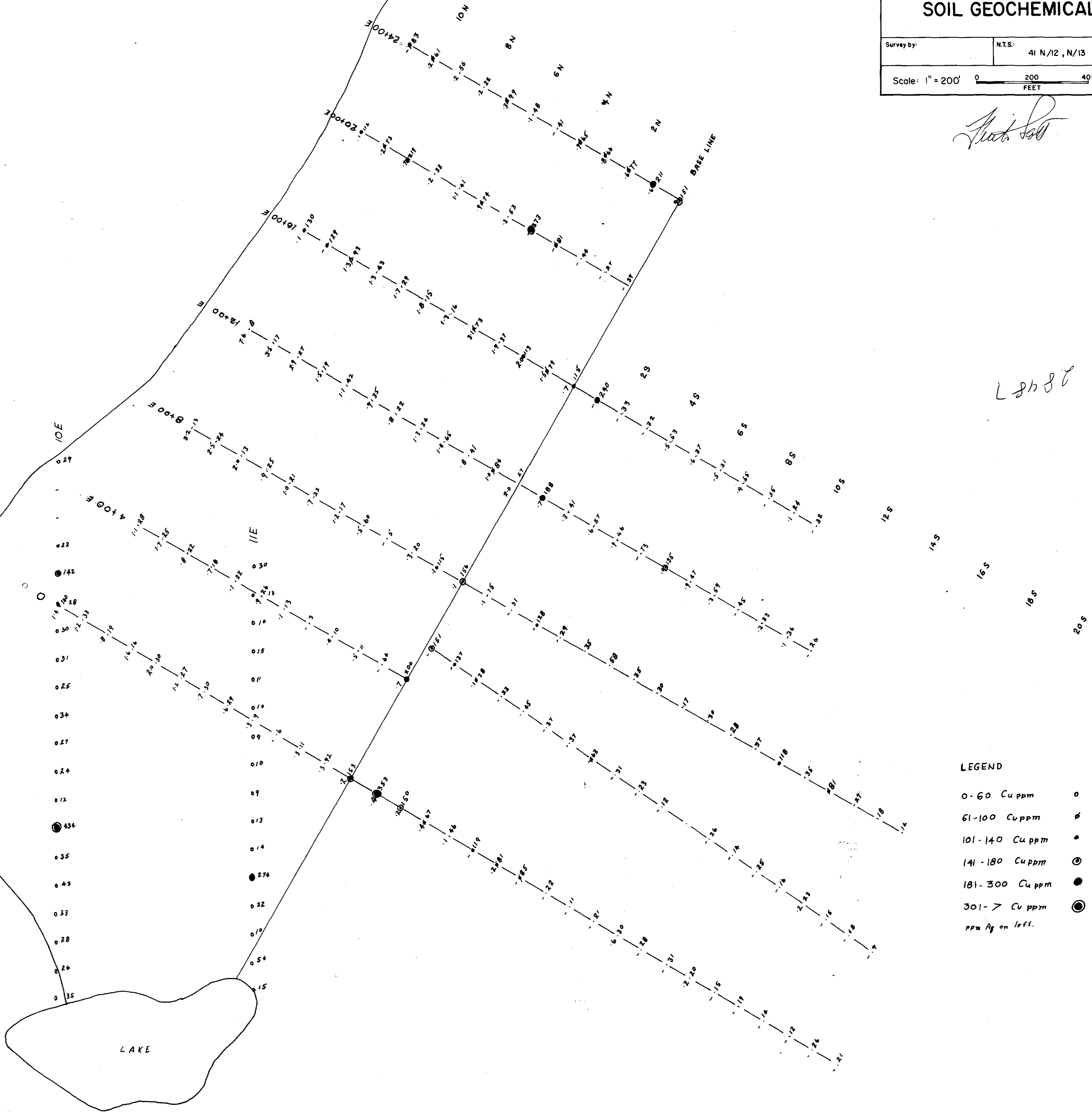
MICHIPICOTEN COPPER PROJECT - THUNDER BAY, ONTARIO

QUEBEC MINE GRID
SOIL GEOCHEMICAL SURVEY

Survey by:	N.T.S.: 41 N/12, N/13	Date:
Scale: 1" = 200'		PLATE

Handwritten signature

2888



LEGEND

- 0-60 Cu ppm ○
 - 61-100 Cu ppm ◌
 - 101-140 Cu ppm ●
 - 141-180 Cu ppm ⊙
 - 181-300 Cu ppm ●
 - 301-7 Cu ppm ⊙
- ppm Ag on left.





NEARCTIC RESOURCES INC.
 MICHIPICOTEN COPPER PROJECT - THUNDER BAY, ONTARIO

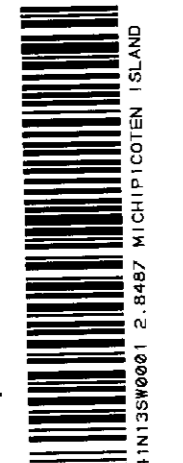
SCHAFFER BAY GRID
 SOIL GEOCHEMICAL SURVEY

Scale: 1" = 200'

Surveyor: [Signature]

Date: 4/11/2013

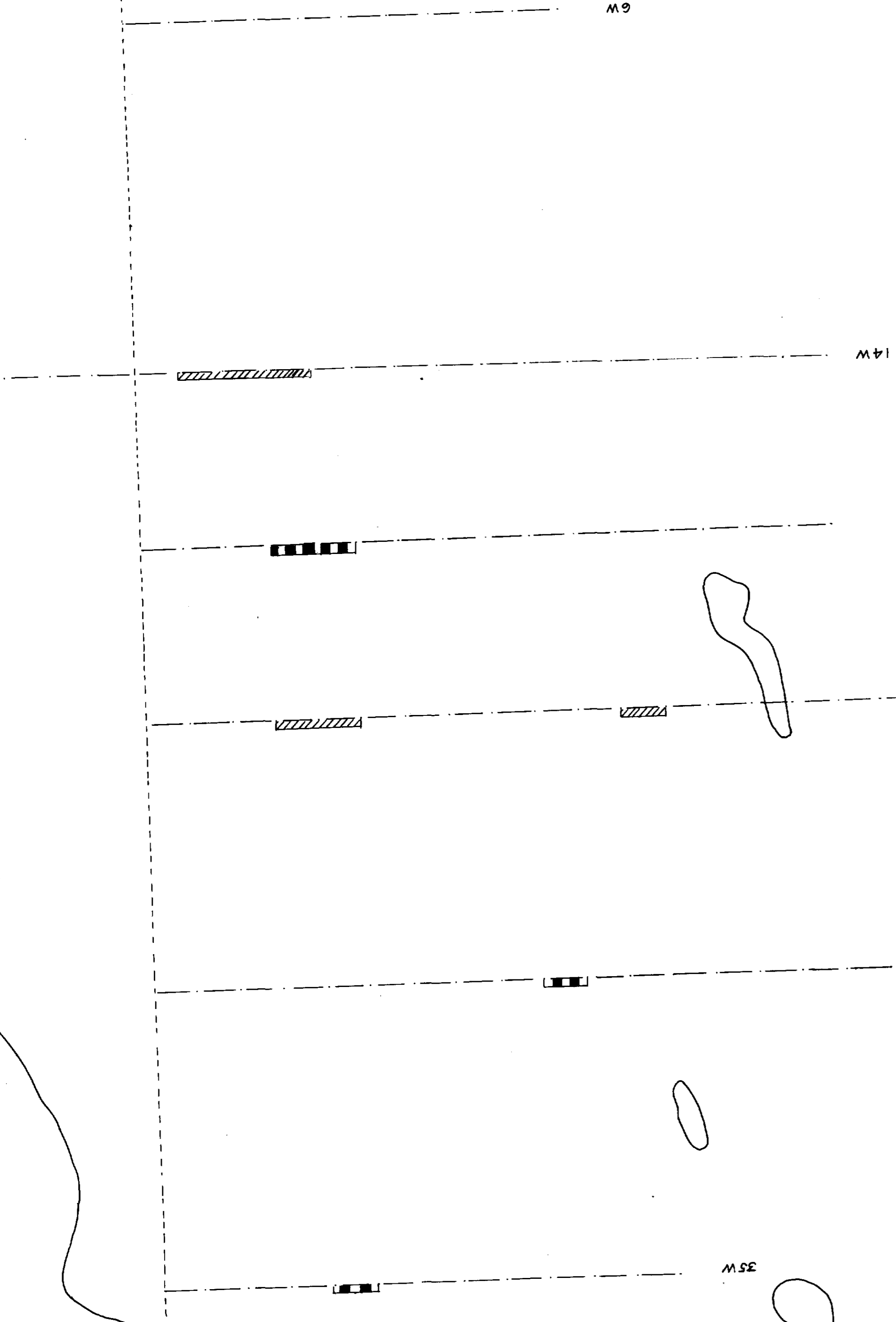
PLATE





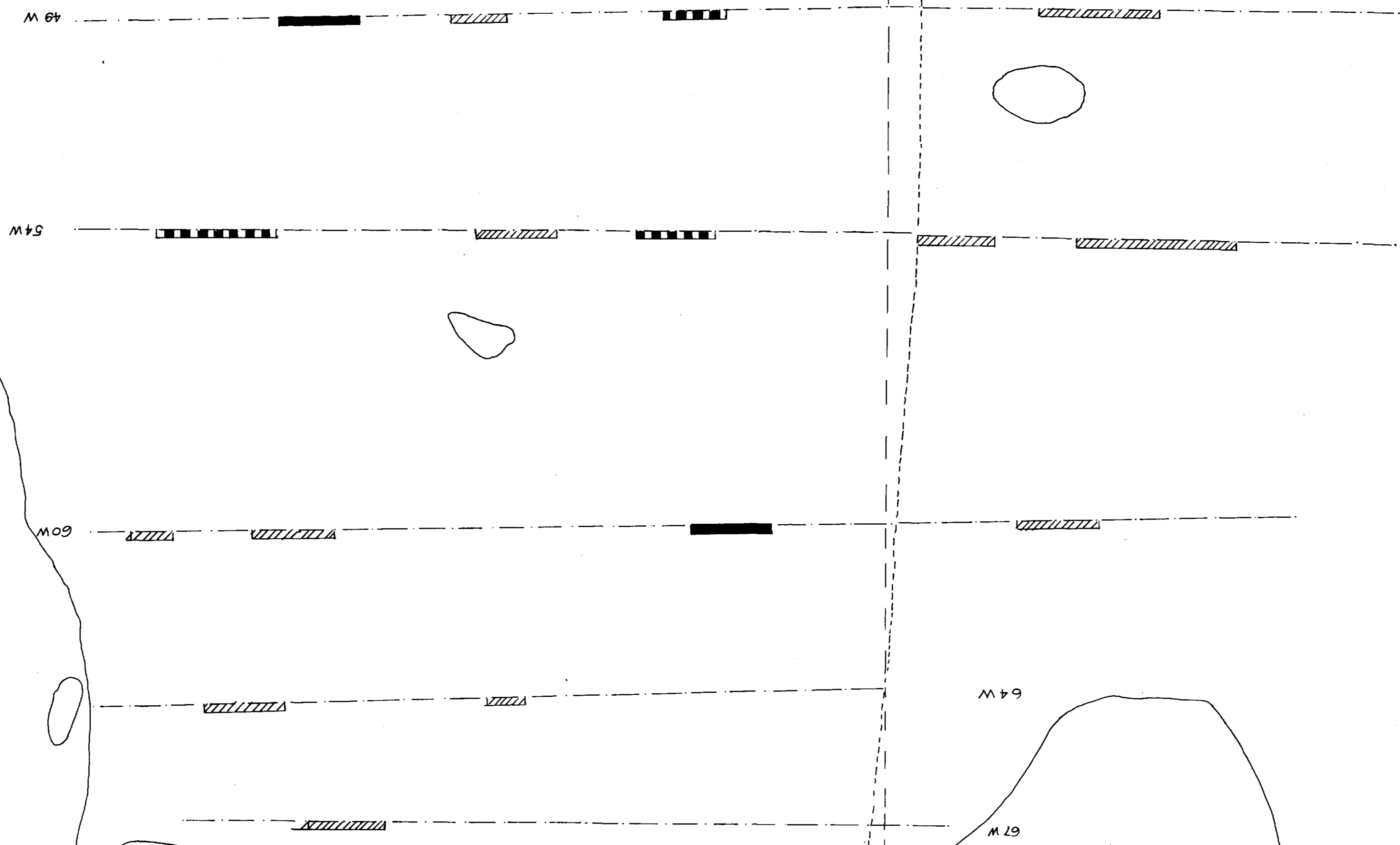
27N LINE
26N
24N
22N
20N
18N
16N
14N
12N
10N
8N
6N

BASE LINE



20N
18N
16N
14N
12N
10N
8N
6N
4N
2N

2S
4S
6S
8S
10S
12S



64W
67W

SURFACE PROJECTION OF
ANOMALOUS IP ZONES
DEFINITE
PROBABLE
POSSIBLE

08486

Michael Scott

NEARCTIC RESOURCES INC.
MICHIPICOTEN COPPER PROJECT - THUNDER BAY, ONTARIO

SCHAFER BAY GRID

INDUCED POLARIZATION SURVEY

Scale: 1" = 200' 0 500 FEET

DATE: 4/11/13

PLATE

