



42A02SE0280 2.1986 CAIRO

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PROJECTS UNIT

GEOCHEMICAL SURVEY

on the property of

MAJESTIC - WILEY CONTRACTORS LTD.

Cairo Township, Ontario

Timmins, Ontario,

November 10, 1975.

R. J. Bradshaw, P. Eng.,

Consulting Geologist.

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INTRODUCTION

A soil sampling programme was undertaken on the Majestic-Wiley property in Cairo Township during the period August 19 to October 4, 1975. The samples were analyzed for copper, lead and zinc and plotted on the appropriate plans.

Purpose of the survey is to detect anomalous conditions which may reflect base or precious metal deposits in the granitoid rocks of the property.

PROPERTY, LOCATION AND ACCESS

The property consists of 60 contiguous unpatented claims numbered L419398 to L419452 inclusive and L421010 to L421014 inclusive.

About 45 miles southeast of Timmins, Ontario, near the small community of Matachewan, the claim group is situated in the centre of Cairo Township.

An all-weather gravel road extends northerly through the claim group, from highway 66, thereby providing excellent access.

PREVIOUS WORK

Apparently no significant exploration work has been undertaken on the area of the claim group.

TOPOGRAPHY

Relief of the generally well drained terrain does not exceed 100 feet. Distribution of rock exposure compared to the general area is generally good averaging about 15 per cent.

The major portion of the property is dry and covered by light brown to reddish sand and sandy loam. Areas of gravel deposits are common. Low lying minor areas of these glacial deposits are covered by wet organically derived soils commonly known as muskeg. Usually these areas form north trending lensoidal shaped deposits between ridges.

Similarly, the creeks, ponds and lakes are oriented in a north direction with drainage to the south.

Jack pine, birch, and poplar, in that order of abundance, are present on the high ground. Mostly black spruce are confined to the low swampy areas.

GENERAL GEOLOGY

The geology of the area is shown on Map 2110, Powell and Cairo Townships, by the Ontario Department of Natural Resources. The distribution of total copper and total molybdenum in felsic plutonic rocks of the area is shown on maps P732 and P733 respectively, by the Ontario government. The Majestic-Wiley property is located on the southwest portion of the Cairo Stock which includes the felsic plutonic rocks of the area. Finally, the Cairo Stock is the subject of a study, by W. J. Wolfe of the Ontario Geological Branch in Open File Report 5091. In this report, the results of sampling several felsic intrusives related and unrelated to gold camps is described and interpreted.

The area of the claim group is almost totally underlain by alkalic intrusive rocks, part of the Cairo Stock, represented by a magnetic low. Along the west boundary of the property, over

a width of about 2000 feet, coarse grained syenite porphyry is exposed. The remainder of the property is underlain by medium grained syenite, with the exception of the area along the south boundary which is underlain by younger coarse grained sediments striking northeast. North trending diabase dykes intrude the Cairo Stock.

ECONOMIC GEOLOGY

Gold-silver deposits have been mined in Powell Township immediately west of Cairo Township. Widespread occurrences of chalcopyrite, pyrite, galena, specular hematite, purple fluorite, barite, molybdenite and tourmaline have been observed in the Cairo Stock. These minerals are common associates of gold in quartz, and quartz carbonate veins that occupy fractures in and near the syenite.

Areas of the Cairo alkalic intrusive considered to be anomalous in copper and molybdenum, as shown on maps P732 and P733, are generally confined to the margins of the intrusive. A relative depletion of silica exists along the margins of the intrusive as compared to the centre. The significance of copper and molybdenum anomalies, shown on maps P732 and P733, within the claim group shall be considered under the heading "Survey Results and Interpretation".

SURVEY RESULTS AND INTERPRETATION

A study of the metal values indicates that there are at least three different populations of values based on differing soil types. It is noted, for example, that values from muskeg samples are much higher than those samples from sands and gravels.

This feature results from the fact that the organic matter of swamps tends to precipitate many of the ore metals out of ground water solutions. Rather arbitrarily, but nevertheless based on the geology, soil types, and arithmetic averages of values together with the results of the rock sampling shown on plans P732 and P733, the threshold value for each of the metals analyzed, namely copper, lead and zinc, was set at 40 parts per million. Although this threshold may be valid for determining anomalous conditions in areas of sand and gravel, it is obvious that a much higher threshold is required for those samples from muskeg. Over half the samples from muskeg have values greater than 40 ppm.

Because of the large number of samples, however, an adequate statistical treatment of the data would involve more expenditure than that required for examination of rock exposures adjacent to those obviously anomalous values.

Soil samples from the north half of the property were analyzed for copper, lead and zinc. Since it was subsequently determined that high zinc values almost invariably corresponded to high copper values, the samples from the south half of the property were analyzed for copper and lead only.

The copper, lead and zinc values for the north half of the property are plotted and contoured on two plans at a scale of one inch to four hundred feet. One plan suffices for displaying results on the south half of the property.

Individual anomalies, considered significant, as indicated on the plans are described as follows:

Anomaly A - At the east end of Line 64 North, high lead and zinc values are present at two stations. Covering a minor area, this anomaly may extend north beyond the property boundary.

Anomaly B - This anomaly is located at the intersection of McDonnell Creek and the access road in the vicinity of Line 56 North. High copper and zinc values are present along the low wet shore area of the creek. More than half the samples are from muskeg. The south portion of this anomaly corresponds to a copper anomaly on plan P732.

Anomaly C - Following the base line between Lines 40 and 52 North, this copper-zinc anomaly is confined to a swamp area. The majority of the samples are from muskeg. The anomaly corresponds to the peak of a copper anomaly on map P732 which may relate anomaly C to B.

Anomaly D - Between Lines 24 and 36 North, along the base line 34 West, this anomaly covers a limited area. The high copper-lead values are situated between two outcrop areas. The highest copper value is from a muskeg.

Anomaly E - Of limited dimensions, this anomaly crosses Lines 8 and 12 North just west of the road. High copper, lead and zinc values form a linear feature on dry terrain.

Anomaly F - A number of isolated anomalous values form this anomalous zone between Line 24 North at the base line and Line 4 South, station 16 East. High copper and zinc values were obtained from muskeg samples. The largest anomaly of the zone is confined to a swamp. Here the metal values show relative impoverishment at the centre of the swamp which is characteristic of the precipitation effect organic matter has on ground-water.

Anomaly G - This anomaly is situated along Whiskeyjack Creek on the west side of the property. High copper values form a linear feature partially in low ground paralleled by high lead values along the Creek. This anomaly corresponds to a rock copper anomaly on Map P732.

Anomaly H - High copper-lead values crossing Lines 8, 12, and 16 South just west of the road form anomaly H. The values are situated in and adjacent to muskeg swamp.

Anomaly I - A group of anomalies east of the lake, between Lines 20 and 48 South, form this anomalous zone. The highs along the lake shore and creek are confined to low ground, in part, muskeg. At the intersection of Line 36 South with the base line, the high values, particularly lead, are in sandy loam. This anomaly corresponds to the location of a lead-copper occurrence and rock molybdenum anomaly on Map P733.

Anomaly J - Forming a linear east of the base line, between Lines 20 and 36 South, this copper anomaly is largely situated in dry sandy soil.

Anomaly K - Several isolated lead anomalies in the vicinity of Cameron Lake form this anomalous zone. The values were obtained from dry sandy soils adjacent to rock exposure.

Anomaly L - This anomaly crosses lines 28, 32 and 36 South near the west boundary. Most of the high copper values are from muskeg.

Anomaly M - A rather small feature, this copper-lead high crosses lines 56, 60 and 64 South near the east boundary. The high values are confined to shallow, dry, sandy loam.

CONCLUSIONS

Because of their close relationship to copper or molybdenum highs, from rock samples as shown on plans P732 and P733, anomalies B, C, G and I are considered the most important as possible indicators of base metal sulphides. The lead anomalous zone K may indicate the presence of gold-silver mineralization.

An examination of the rock exposure in the vicinity of these anomalies and the others herein described might well be sufficient in most instances to determine whether or not base or precious metal mineralization is related to the soil anomalies. Those anomalies, however, having a lensoidal shape, oriented northwards, may reflect mineralized faults in topographic lows. These type of anomalies, in particular, include E, G, H and J, and may require earth trenching.

RECOMMENDATIONS

A programme of detailed rock examination is recommended at the locations of the individual anomalies with anomalies B, C, G and I meriting special attention. A minimum amount of \$3000 should be allocated for this programme including some earth trenching at locations to be determined during the investigation. Any detailed assaying of rock sampling that may be required would necessitate an additional expenditure.



Respectfully submitted,
GHIELD GEOPHYSICS LIMITED,

R. J. Bradshaw
R. J. Bradshaw, P. Eng.,
Consulting Geologist.

Timmins, Ontario,
November 10, 1975.

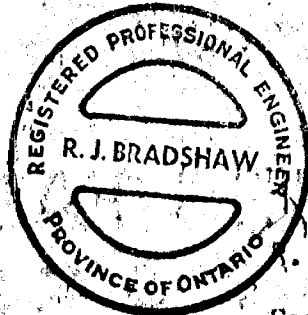
C E R T I F I C A T E

I, Ronald J. Bradshaw, residing at 480 Howard Street, Timmins, Ontario, a consulting geologist with office at 26 Pine Street South, Timmins, Ontario, do hereby certify that:

I attended Queen's University in Kingston, Ontario, and graduated with an Honours B.A. degree in Geological Sciences in 1958.

I am a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy and of the Association of Professional Engineers of the Province of Ontario.

I have no interest either directly or indirectly in the shares or securities of Majestic-Wiley Contractors Ltd.



Timmins, Ontario,
November 10, 1975.

R. J. Bradshaw
R. J. Bradshaw, P. Eng.,
Consulting Geologist.

APPENDIX

Sampling Procedure

An auger or grub hoe was used to recover the soil sample. The majority of the samples were taken from a depth of about one foot below surface, representing the B soil horizon, where red brown sandy loam is present. At stations where muskeg is present, an attempt was made to recover a sample by auger in the grey or white sand below. If the depth of muskeg was greater than five feet, a muskeg sample was analyzed.

For the most part, samples were taken at 100 foot stations along the picket lines.

Analytical Procedure

Individual soil samples were dried and then the minus 80 mesh fraction dissolved with hot aqua regia. Copper, lead and zinc content was determined using the atomic absorption method by Bondar-Clegg and Company of Ottawa.



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Report on
Geological Mapping of
Majestic Wiley Property
Cairo Township
Matachewan Area, Ontario
Larder Lake Mining Division

August 7, 1975
Timmins, Ontario

W. F. Graham
Noranda Exploration Co., Ltd.

MAJESTIC WILEY PROPERTY

LOCATION:

The property consists of 54 contiguous unpatented mining claims numbered L-419398 - 424, L-419430 - 452, and L-421011 - 014 located in north central Cairo Township. The property lies approximately 4 miles northeast of Matachewan, Ontario.

ACCESS:

A good gravel road known as the Indian Reserve Road traverses the property from south to north. The road branches to the north from Highway #66 at a point about $\frac{1}{2}$ mile east of the junction with Highway #65.

TOPOGRAPHY:

The ground is characterized by low hills (up to 100') of outcrop and glacial debris with minor swampy areas. Whiskey Jack Creek follows along the west side of the Indian Reserve Road. Several small lakes occur on the property. Vegetation is jack pine on outcrop areas and on sand plains with birch and poplar predominating elsewhere.

PREVIOUS WORK:

No previous work is known for the property.

GEOLOGICAL SURVEY:

Reconnaissance geological mapping was carried out by W. F. Graham assisted by M. Portigal during the period June 26 - July 5, 1975 inclusive. Mapping was performed on uncut traverse lines generally coincident with the claim lines and intermediate to the claim lines.

The rocks are almost entirely part of a syenite batholith except for 2 outcrop areas of Huronian sediments in the southeastern corner of the property which are intruded by the syenite. Matachewan diabase intrudes the syenite in several locations.

TABLE OF LITHOLOGIC UNITS

CENOZOIC

Sand, gravel, clay.

PRECAMBRIAN

PROTEROZOIC

Huronian

 Cobalt Group

 Gowganda Formation

Slate, argillite, greywacke, quartzite

ARCHEAN

Mafic Intrusive Rocks

Diabase

Silicic Intrusive Rocks

Syenite porphyry and coarse grained syenite

HURONIAN SEDIMENTS:

Only 2 outcrop areas of Huronian sediments were located. The rocks in those areas are interbedded conglomerate, greywacke, quartzite, and slate. The conglomerate contains pebbles of up to 1" diameter within a quartzite matrix. The other sediments are grey to dark grey-green in colour and are well bedded. The rocks strike N 45° E and dip gently to the southeast.

DIABASE:

The rock is gabbroic in composition but diabasic in texture. The diabase is black, medium to coarse grained and slightly magnetic.

SYENITE:

The rock is variable in texture, colour, and composition but is generally medium to very coarse grained, grey to brick red, and is composed of orthoclase, biotite, hornblende, and minor quartz. On the west boundary of the property, the rock was found to be very coarse grained, bordering on pegmatitic in several locations.

MINERALIZATION:

The Huronian sediments contain only a trace of disseminated pyrite. The diabase contains from a trace to about 3% pyrite disseminated with higher concentrations along some contacts.

Traces of pyrite are nearly ubiquitous in the syenite and local occurrences of up to 2% chalcopyrite can be found in several locations, sometimes associated with minor quartz veins and fluorite.

W. F. Graham

W. F. Graham

Noranda Exploration Co., Ltd.



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Extraction Cu, Pb, Zn - HNO₃-HCl

Report No. 967-5

Method A.A.

From Shield Geophysics Limited

Fraction Used -80 soils

Date October 2, 19 75

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm
BLO 0+00	100	15	58	BLO 31+00N	10	12	15
1+00N	17	14	20	32+00N	8	15	16
2+00N	14	20	28	33+00N	3	9	4
3+00N	2	7	4	34+00N	20	11	12
4+00N	5	14	11	35+00N	17	12	16
5+00N	15	23	15	36+00N	12	17	24
6+00N	11	26	16	37+00N	9	12	17
7+00N	14	31	21	38+00N	5	12	12
8+00N	16	26	16	39+00N	6	11	12
9+00N	12	24	24	40+00N	8	13	22
10+00N	11	17	20	41+00N	7	12	18
11+00N	8	15	10	42+00N	38	9	16
12+00N	6	18	12	43+00N	39	13	40
13+00N	24	13	12	44+00N	96	16	89
14+00N	7	12	8	45+00N	105	16	123
15+00N	10	15	16	46+00N	109	24	100
16+00N	8	16	14	47+00N	40	23	32
17+00N	17	16	14	48+00N	200	18	20
18+00N	26	24	16	49+00N	16	15	12
19+00N	23	47	14	50+00N	24	16	20
20+00N	150	47	60	51+00N	26	17	21
21+00N	53	28	65	52+00N	16	8	16
22+00N	19	8	12	53+00N	12	6	8
23+00N	11	12	15	54+00N	26	20	40
24+00N	6	12	10	55+00N	22	13	22
25+00N	12	14	14	56+00N	8	20	22
26+00N	15	14	16	57+00N	10	19	16
27+00N	7	12	15	58+00N	17	20	16
28+00N	6	15	18	59+00N	20	24	16
29+00N	11	15	16	60+00N	5	16	11
30+00N	11	10	14	61+00N	6	15	19

WVW

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SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm
BLO 62+00N	6	17	19	L32N 10+00E	8	18	16
63+00N	6	20	15	11+00E	9	24	28
64+00N	16	26	28	12+00E	6	23	14
65+00N	8	19	16	13+00E	12	26	10
L28N 1+00E	7	14	14	14+00E	12	19	11
2+00E	13	16	16	L32N 1+00W	5	10	9
3+00E	26	13	13	2+00W	5	13	13
4+00E	5	15	20	3+00W	6	14	11
5+00E	4	13	19	4+00W	8	10	16
6+00E	6	26	26	5+00W	8	7	10
7+00E	16	27	40	6+00W	9	16	15
8+00E	4	12	10	7+00W	11	14	10
9+00E	9	16	22	8+00W	8	14	11
11+00E	7	15	12	9+00W	6	14	24
12+00E	9	18	15	10+00W	16	18	12
13+00E	10	16	16	11+00W	14	12	15
14+00E	12	15	13	L36N 1+00E	8	15	15
L28N 1+00W	12	19	13	2+00E	8	16	26
2+00W	16	7	14	3+00E	16	21	14
3+00W	57	33	44	4+00E	23	10	19
4+00W	10	14	12	5+00E	14	18	15
5+00W	15	8	20	6+00E	9	18	17
6+00W	15	8	12	7+00E	9	17	10
7+00W	8	12	14	8+00E	8	16	13
8+00W	4	15	16	9+00E	36	28	16
9+00W	6	15	11	10+00E	15	20	24
10+00W	4	8	8	11+00E	10	20	21
L32N 1+00E	21	10	18	12+00E	15	30	20
2+00E	8	10	18	13+00E	34	11	12
3+00E	14	72	13	14+00E	16	30	12
4+00E	6	16	26	14+50+00E	9	15	14
5+00E	19	12	14	L36N 1+00W	9	14	22
6+00E	10	15	14	2+00W	6	14	18
7+00E	12	18	16	3+00W	11	18	26
8+00E	8	19	30	4+00W	9	12	10
9+00E	22	18	24	5+00W	10	14	1

WVW

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L36N	6+00W	19	12	14	L40N	16+00W	11	16	15
	7+00W	14	14	12		17+00W	3	8	7
	8+00W	16	13	14		18+00W	10	20	26
	9+00W	9	8	11		19+00W	15	24	27
	10+00W	16	26	19		20+00W	13	18	16
	11+00W	10	27	12		21+00W	11	18	14
L40N	1+00E	6	16	12		22+00W	9	16	19
	2+00E	12	18	31		23+00W	17	14	24
	3+00E	245	18	38		24+00W	10	14	12
	4+00E	6	15	11		24+55W	12	18	8
	5+00E	8	16	16	L44N	1+00E	11	14	12
	6+00E	12	16	19		2+00E	10	14	16
	7+00E	42	28	16		3+00E	12	19	13
	8+00E	44	16	21		4+00E	14	13	12
	9+00E	16	20	20		5+00E	26	18	28
	10+00E	12	24	20		6+00E	15	16	27
	11+00E	10	18	12		7+00E	21	29	41
	12+00E	26	14	11		8+00E	26	80	42
	13+00E	14	20	10		9+00E	27	26	46
	14+00E	16	36	18		10+00E	16	20	16
	14+80E	8	19	16		11+00E	9	24	30
	1+00W	6	16	24		12+00E	8	16	20
	2+00W	5	16	12		13+00E	20	17	23
	3+00W	2	8	5		14+00E	24	60	6
	4+00W	9	13	14		15+00E	15	32	23
	5+00W	8	13	12		15+40E	11	28	13
	6+00W	10	17	13		1+00W	48	16	34
	7+00W	14	15	14		2+00W	9	16	17
	8+00W	29	11	18		3+00W	7	14	18
	9+00W	14	18	14		4+00W	7	12	16
	10+00W	12	18	10		5+00W	8	15	15
	11+00W	28	54	255		6+00W	8	16	12
	12+00W	7	12	11		7+00W	14	15	13
	13+00W	6	12	27		8+00W	10	12	11
	14+00W	14	15	16		9+00W	7	16	19
	15+00W	13	14	14		10+00W	12	14	16

L44N

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L44N	12+00W	14	14	13	L48N	7+00W	6	14	15
	13+00W	8	20	27		8+00W	5	15	11
	14+00W	7	16	22		9+00W	11	25	11
	15+00W	8	12	13		10+00W	150	23	60
	16+00W	10	25	18		11+00W	6	11	9
	17+00W	18	20	16		12+00W	8	32	13
	18+00W	10	14	16		13+00W	11	24	17
	19+00W	11	16	20		14+00W	13	18	16
	20+00W	10	15	25		15+00W	21	16	26
	21+00W	8	21	24		16+00W	26	26	44
	22+00W	4	22	23		17+00W	6	14	23
	23+00W	20	16	12		18+00W	11	14	26
	24+00W	8	24	16		19+00W	5	14	18
	25+00W	5	15	8		20+00W	6	15	12
	25+80+00W	8	14	14		21+00W	10	16	14
L48N	1+00E	4	12	9		22+00W	11	57	26
	2+00E	5	14	9		23+00W	13	13	14
	3+00E	4	19	8	L48N-23+70+00W		15	34	32
	4+00E	9	17	23	L52N	1+00E	10	15	18
	5+00E	39	16	14		2+00E	20	20	16
	6+00E	41	20	19		3+00E	8	23	14
	7+00E	16	22	15		4+00E	9	24	25
	8+00E	4	12	9		5+00E	10	14	13
	9+00E	1	26	6		6+00E	10	16	15
	10+00E	22	30	20		7+00E	14	20	18
	11+00E	10	25	28		8+00E	11	17	20
	12+00E	6	19	16		9+00E	28	20	17
	13+00E	5	18	23		10+00E	8	22	21
	14+00E	9	19	12		11+00E	10	18	19
	15+00E	11	20	13		13+00E	7	18	16
	16+00E	8	20	16		14+00E	5	16	13
L48N	2+00W	31	14	20		15+00E	6	23	16
	3+00W	11	12	24		16+00E	8	19	17
	4+00W	4	14	10		16+40E	12	14	12
	5+00W	15	11	13	L52N	1+00W	52	16	31
	6+00W	5	15	13		2+00W	5	10	2

WPM

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L52N	3+00W	10	15	29	L60N	5+00E	9	16	16
	4+00W	4	12	16		6+00E	9	16	16
	5+00W	5	17	20		7+00E	8	26	42
	6+00W	6	15	13		8+00E	7	19	12
	7+00W	11	16	15		9+00E	14	20	20
	8+00W	36	13	20		10+00E	1	7	4
	9+00W	58	27	40		11+00E	4	8	8
	10+00W	24	19	24		12+00E	15	22	35
	11+00W	10	16	23		13+00E	8	18	42
L56N	1+00E	16	23	27		14+00E	8	19	32
	2+00E	10	14	22		15+00E	12	14	19
	3+00E	8	15	16		16+00E	5	19	26
	4+00E	5	14	18		17+00E	10	15	20
	5+00E	6	18	30	L64N	1+00E	16	12	16
	6+00E	8	16	27		2+00E	12	16	20
	7+00E	10	19	20		3+00E	8	12	14
	8+00E	12	24	18		4+00E	13	15	19
	9+00E	14	14	14		5+00E	14	15	12
	10+00E	7	20	19		6+00E	28	19	21
	11+00E	10	16	26		7+00E	13	14	12
	12+00E	6	24	28		8+00E	11	22	18
	13+00E	9	19	28		9+00E	14	16	14
	14+00E	10	20	26		10+00E	14	20	23
	15+00E	4	17	12		11+00E	18	21	17
	16+00E	8	14	30		12+00E	21	32	47
	17+00E	10	17	16		13+00E	26	20	15
L56N	5+00W	28	16	20		14+00E	15	18	15
	8+00W	121	14	16		15+00E	16	20	20
	9+00W	10	13	18		16+00E	27	154	132
	10+00W	3	15	24		17+00E	12	18	42
	11+00W	9	15	14		18+00E	12	19	45
	12+00W	8	17	17					
L60N	1+00E	12	13	15					
	2+00E	5	16	24					
	3+00E	15	16	18					
	4+00E	12	16	23					

345

W/W



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Extraction Cu, Pb, Zn - HNO₃-HCl

Report No. 1024-5

Method A.A.

From Shield Geophysics Ltd.,

Fraction Used -80 soils.

Date October 15, 1975. 19

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm
BL 33W 25+00N	6	14	16	LO 1+00E	28	37	26
26	5	15	10	2	12	19	6
28	7	24	14	3	14	18	40
29	13	12	16	4	6	15	25
30	8	48	13	5	9	14	17
31	11	82	27	6	9	22	22
32	28	14	20	7	21	27	19
33	181	220	34	8	26	75	34
34	24	8	19	9	12	18	19
35	10	11	20	10	14	14	12
36	20	9	22	11	11	12	12
37	11	8	12	12	12	15	18
38	7	10	14	13	17	15	20
39	9	11	19	14	4	8	10
40	14	11	18	15	8	10	23
41	8	9	20	16	10	11	35
42	6	12	25	17	8	13	36
43	12	10	25	18	13	15	22
44	9	11	16	19	6	8	16
45	7	11	19	20	6	9	24
46	10	10	18	21	13	18	18
47	5	10	17	22	8	12	18
BL 33W 48+00N	12	14	21	23	6	10	27
BL 34W 49+00N	11	10	14	24	25	15	35
51	16	14	10	25	5	11	22
52	6	12	14	26	8	10	17
53	7	13	17	27	8	10	19
54	8	12	27	28	5	11	13
55	6	10	28	29	7	15	22
56	11	9	41	30	11	12	22
BL 34W 57+00N	9	10	30	31	7	13	6

EB 0-18

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
LO	32+00E	5	12	7	L8N	8+00E	22	30	31
L4N	1+00E	6	25	14		9	5	14	22
	2	9	13	19		10	9	10	28
	3	12	13	16		11	75	7	14
	4	7	12	13		12	8	17	11
	5	15	19	14		13	12	12	13
	6	7	17	24		14	6	10	16
	7	6	12	16		15	17	45	27
	8	12	17	14		16	10	13	13
	9	6	29	25		17	12	13	33
	10	11	19	15		18	20	18	22
	11	9	16	16		19	14	20	19
	12	6	9	18		20	11	17	14
	13	10	11	40		21	10	14	18
	14	8	14	19		22	13	15	13
	15	14	10	20		23	10	13	12
	16	20	36	28		24	4	19	10
	17	816	22	162		25	9	15	20
	18	563	15	38		26	13	12	10
	19	25	20	18		27	2	16	4
	20	26	16	14		28	5	8	11
	21	17	15	14	L8N	28+70E	13	14	13
	22	32	20	32	L8N	1+00W	15	11	14
	23	20	16	29		2	13	10	12
	24	11	9	10		3	7	13	13
	25	7	9	16		4	22	17	25
	26	5	9	18		5	6	14	10
	27	14	7	11		6	8	14	37
L4N	28+00E	8	12	16		7	12	28	20
L8N	1+00E	4	16	10		8	8	25	19
	2	5	12	11		9	11	38	61
	3	13	13	16		10	12	28	18
	4	11	14	14		11	6	20	23
	5	6	17	35		12	13	27	23
	6	9	12	22		13	11	21	18
	7	7	11	14		14	4	16	16



BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L8N	15+00W	6	29	16	L12N	9+00E	82	12	15
	16	9	10	14		10	67	22	40
	17	10	13	14		12	61	17	14
	18	10	14	13		13	63	18	20
	19	8	14	22		14	54	18	20
	20	7	28	25		15	346	30	30
	21	7	15	20		16	11	15	8
	22	10	15	10		17	38	31	25
	23	146	20	34		18	5	15	15
	24	60	38	33		19	42	28	25
	25	58	37	25		20	9	31	7
	26	13	23	22		21	12	11	12
	27	7	15	25		22	15	19	22
	28	5	9	8		23	8	13	16
	29	15	11	16		24	11	8	10
	30	6	9	5		25	12	15	19
	31	7	12	22		26	42	16	20
	32	3	13	9	L12N	27+00E	57	14	21
	33	15	11	20	L12N	1+00W	7	10	7
	34	13	21	31		2	5	13	21
	35	14	15	16		3	8	11	23
	36	282	14	17		4	3	10	6
	37	80	33	53		6	5	18	16
	38	32	22	19		7	5	23	12
	39	6	14	40		8	51	148	75
	40	19	23	50		9	6	17	28
	41	12	11	15		10	19	20	14
L8N	42+00W	16	15	14		11	11	20	23
L12N	1+00E	6	11	12		12	10	13	17
	2	8	14	12		13	6	14	10
	3	5	10	15		14	6	21	20
	4	10	11	14		15	7	25	19
	5	119	27	9		16	10	10	11
	6	22	14	13		17	7	12	16
	7	227	14	16		18	8	9	9
	8	121	14	20		19	6	10	13



BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L12N	20+00W	9	15	18	L16N	13+00W	7	13	18
21		10	13	15	14		16	21	50
22		10	14	15	15		13	20	16
23		13	15	20	16		68	11	30
24		6	16	23	17		32	11	20
25		68	21	25	18		34	10	14
26		5	9	8	19		75	16	22
27		10	7	8	20		9	11	13
28		53	10	19	21		5	7	3
29		138	30	27	22		8	11	13
30		10	10	14	23		6	10	9
31		15	18	21	24		22	35	12
32		8	11	18	25		6	9	13
33		7	19	26	26		6	15	14
34		14	20	71	27		28	11	13
35		4	17	32	28		25	2	15
36		9	12	31	29		60	11	21
37		3	11	20	30		9	9	22
38		14	8	14	31		8	10	20
39		16	16	15	32		6	14	13
40		13	9	13	33		9	12	13
41		14	11	17	34		9	15	54
42		10	11	12	35		12	19	43
43		30	15	17	36		8	14	37
L12N	43+70W	12	10	13	37		9	13	20
L16N	1+00W	31	13	17	38		10	15	15
2		6	9	11	39		51	19	31
3		5	9	15	40		18	10	17
4		6	12	10	41		14	9	12
5		2	6	4	42		17	9	13
6		1	7	4	43		24	10	12
8		9	10	12	L16N	44+00W	20	10	15
9		4	8	10	L16N	1+00E	20	20	22
10		15	11	18	2		11	11	14
11		10	12	19	3		8	10	14
12		5	10	9	4		6	10	17

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Geochemical Lab Report

Report No. 1024-5

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L16N	5+00E	20	12	17	L20N	17+00E	16	7	10
6		6	15	29	18		6	7	12
7		8	11	14	19		14	14	17
8		12	9	10	20		4	10	7
9		8	13	10	21		10	15	18
10		4	10	6	22		12	16	20
12		80	12	6	23		10	13	18
13		38	71	12	24		16	17	38
14		7	14	11	25		117	8	14
15		11	14	16	26		42	9	11
16		6	11	10	L20N	26+60E	33	9	10
17		10	14	12	L20N	1+00W	46	10	15
18		14	18	15	2		70	12	14
19		14	19	17	3		7	9	13
20		5	16	8	4		5	10	13
21		15	7	16	5		7	10	18
22		16	10	17	6		3	8	9
23		6	10	12	7		4	12	6
24		9	14	12	9		24	13	33
25		27	11	11	10		12	10	16
L16N	26+00E	20	7	7	11		8	12	15
L20N	2+00E	16	11	19	12		17	15	19
3		14	9	14	13		16	21	16
4		6	12	15	14		6	13	15
5		9	11	15	15		12	12	13
6		12	11	16	16		10	14	14
7		57	7	14	17		14	16	16
8		7	10	15	18		26	18	16
9		6	12	11	19		10	10	16
10		10	12	19	20		7	8	11
11		18	17	18	21		15	15	10
12		26	27	127	22		5	11	10
13		13	11	18	23		12	10	11
14		23	13	20	24		6	9	9
15		10	11	9	25		9	10	11
16		22	14	19	26		10	11	17

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
LEON 27+00W		9	14	17	LEON 22+00E		9	18	14
28		9	12	17	23		15	16	31
29		10	9	16	24		24	24	43
30		9	10	18	25		8	14	25
31		17	15	27	LEON 1+00W		12	6	10
32		8	21	32	2		16	18	14
33		14	15	18	3		33	7	18
34		16	25	19	4		6	7	19
35		11	20	22	5		20	10	13
36		8	10	19	6		14	11	16
37		10	13	30	7		4	13	10
38		22	12	10	8		6	12	9
39		9	9	13	10		46	29	50
40		11	10	14	11		20	16	14
41		16	15	15	12		7	11	16
42		11	12	15	13		7	16	16
43		20	22	16	14		8	12	18
44		70	171	218	15		6	25	24
LEON 1+00E		8	10	14	16		9	14	15
2		27	9	12	17		6	13	12
3		12	10	12	18		7	13	14
4		197	8	39	19		7	14	15
5		11	11	10	20		18	24	16
6		10	13	14	21		8	12	12
7		14	18	14	22		6	12	18
8		10	13	11	23		15	7	9
12		6	12	8	24		10	12	12
13		5	11	10	25		10	10	10
14		12	14	13	26		10	6	10
15		7	12	11	27		6	12	17
16		10	10	22	28		12	12	12
17		6	10	13	29		86	7	18
18		6	11	11	30		12	12	18
19		8	12	15	31		6	8	16
20		10	14	35	32		5	16	23
21		10	12	26	33		13	14	16



Geochemical Lab Report

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L24N	34+00W	15	15	18	L28N	32+00W	14	30	20
	35	8	16	24		34	5	14	11
	36	5	11	19		35	3	11	16
	37	11	12	11		36	13	24	32
	38	8	11	30		37	10	16	26
	39	12	12	18		38	8	8	16
	40	9	10	10		39	8	14	14
	41	13	8	12		40	10	10	11
	42	27	8	11		41	9	8	11
	43	14	10	12		42	9	8	8
	44	9	8	15	L28N	43+60W	4	10	6
L28N	19+55E	10	12	12	L32N	13+00W A	8	20	16
	20+00E	13	30	32		13+00W B	6	22	16
	21	7	20	10		14	6	18	12
	22	7	16	14		15	1	6	6
L28N	22+75E	9	12	16		16	7	17	31
L28N	12+00W	14	13	19		17	6	14	10
	13	6	10	24		18	10	19	20
	14	7	11	11		19	11	22	11
	15	5	12	8		20	7	12	16
	16	5	14	13		21	7	24	18
	17	6	16	15		22	9	9	12
	18	15	24	15		23	9	8	16
	19	6	12	10		24	11	19	12
	20	10	12	11		25	9	12	4
	21	7	16	19		25+60W	2	24	2
	22	8	14	12		28+00W	8	10	8
	23	12	13	13		29	4	9	13
	24	14	11	24		30	10	12	34
	25	6	13	16		31	8	16	24
	26	7	15	18		32	9	16	16
	27	8	8	16		34	4	18	26
	28	10	17	12		35	7	22	29
	29	2	20	16		36	8	14	16
	30	12	16	46		37	26	16	28
	31	13	40	38		38	8	10	12

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L32N	39+00W	6	6	12	L40N	38+00W	12	12	22
	40	14	9	14		39	12	16	14
	41	6	8	12		40	8	7	6
	43+00W	21	14	72	L44N	31+20W	8	10	7
L32N	43+50W	7	10	7		32+00W	7	10	25
L36N	12+40W	4	12	6		34	12	12	10
	13+00W	18	14	24		35	10	16	23
	14	16	12	14		36	12	16	14
	15	6	12	17		37	28	8	15
	16	6	16	25		38+00W	22	12	12
	17	7	12	16		38+65W	25	15	10
	18	10	12	20	L48N	32+60W	13	10	14
	19	5	8	10		34+00W	7	9	21
	20	11	14	49		35	7	10	19
	21	6	12	17		36	40	11	53
	22	14	16	16		37	1	6	4
	23	5	14	13		38	14	14	18
	24	5	12	4		39	5	12	13
	29	10	12	8		40	8	12	12
	30	12	12	12		41	5	9	6
	31	17	14	18		42	32	12	11
	32	10	12	23	L52N	12+00W	6	14	14
	34	8	12	14		13	17	10	14
	35	8	12	13		14	9	14	26
	36	10	11	10		15	6	12	24
	37	4	15	9		16	11	16	18
	38	12	11	14		17	8	16	23
	39	25	8	18		18	7	14	26
	40+00W	5	8	9		19	7	12	14
	40+40W	6	8	10		20	6	10	10
L40N	31+35W	6	12	13		21	10	14	16
	32+00W	12	15	10		22+00W	9	10	10
	34	8	8	13		22+75W	11	10	13
	35	20	23	20		32+15W	8	9	10
	36	16	12	14		35+00W	27	16	13
	37	17	46	14		36	8	14	29

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 1024-5

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L52N	37+00W	8	12	14	L56N	30+00W	14	12	12
	38	8	10	16		39	9	9	16
	39	18	12	14		40	16	9	8
	40	6	12	12		41	58	12	33
	41	28	10	29		42	15	5	12
	42	8	8	12		43	17	10	12
	43	7	10	14		44+00W	13	5	12
	44	6	10	10		44+40W	58	10	19
	45	7	12	6	L60N	1+00W	4	9	13
L56N	1+00W	9	12	20		2	5	10	16
	2	12	14	16		3	6	12	28
	3	3	10	16		4	11	9	12
	4	78	20	65		5	62	32	95
	6	100	22	500		7	109	24	52
	7	76	27	168		8	6	6	12
	13	11	18	19		9	8	16	22
	14	23	13	22		10	12	22	10
	15	14	8	14		11	26	8	26
	16	17	8	14		12	10	4	34
	17	16	8	14		13	10	5	45
	18	8	21	30		14	21	8	17
	19	11	17	20		15	28	8	20
	20	10	12	20		16	17	8	18
	22+00W	6	12	6		17	11	16	16
	22+80W	15	20	10		18	14	8	12
	26+00W	7	12	14		19+00W	119	31	71
	27	14	16	16		19+45W	71	28	38
	28	15	16	19	L64N	1+00W	7	16	8
	29	20	16	18		2	13	14	16
	30	6	12	16		3	55	57	38
	31	11	15	24		4	8	10	16
	32	10	12	32		5	6	14	24
	33	12	10	20		6	13	14	30
	35	7	13	16		7	9	11	14
	36	20	18	16		8	8	15	20
	37	10	14	11		9	10	22	20

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Extraction Cu, Pb, Zn - HNO₃-HCl

Report No. 1105-5

Method A.A.

From Shield Geophysics Limited.

Fraction Used -80 soils.

Date November 6, 19 75

SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
10	1+00W	35	12	36	10	32+00W	4	10	28
2		12	12	29		33	10	13	27
3		4	9	10		34	11	8	19
4		16	85	28		35	19	21	50
5		8	11	45		36	8	12	22
6		9	16	28		37	13	16	14
7		10	28	32		38	7	12	11
8		9	15	16		39	8	9	16
9		5	16	15		40	19	15	15
10		9	24	20		41	10	13	20
11		10	20	20		43	17	13	16
12		9	20	14		44+00W	9	16	8
13		7	14	16	10	44+95W	17	12	8
14		8	25	17		46+30W	19	13	24
15		6	13	18		47+00W	6	12	8
16		19	24	27		48	7	11	19
17		43	15	44		49	10	12	28
18		5	20	55		50	58	25	36
19		10	12	15		51	17	20	24
20		10	16	11		52	10	19	56
21		7	11	15		53	12	12	25
22		12	21	38		54	9	10	22
23		10	19	23		55	16	12	22
24		8	12	7		56	33	12	12
25		98	23	48		57	15	11	15
26		66	23	29		58	28	11	12
27		33	13	20		59	36	10	15
28		10	69	36		60	14	10	14
29		8	12	15		61	9	9	8
30		4	10	17		62	15	9	12
31		8	8	27		63	10	8	13

WMM

Geochemical Lab Report

Report No. 1105-5

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SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.		Cu ppm	Pb ppm	Zn ppm
L0	64+00W	20	10	13	L4N	34+00W	5	12	14
	65	24	9	14		35	4	17	7
	66	22	9	20		36	12	18	35
L4N	1+00W	8	8	14		37	15	13	36
	2	6	9	11		38	8	12	16
	3	38	17	56		39	6	13	27
	4	16	12	12	L4N	40+00W	5	11	8
	5	8	9	15	RIC	80+008	11	35	
	6	6	14	11		79+008	15	11	
	7	8	15	12		78	8	11	
	8	14	31	25		77	9	23	
	9	8	27	24		75	11	15	
	10	13	26	12		74	7	8	
	11	8	14	16		73	8	8	
	12	13	15	16		72	18	16	
	13	9	14	12		71	6	8	
	14	4	8	16		70	13	14	
	15	5	10	11		69	22	28	
	16	4	8	12		68	15	25	
	17	7	13	11		67	29	15	
	18	13	12	11		66	8	12	
	19	6	8	11		65	12	22	
	20	11	13	18		64	8	13	
	21	11	13	15		63	12	16	
	22	197	16	23		62	18	16	
	23	62	13	14		61	6	12	
	24	52	8	22		60	23	12	
	25	40	13	20		59	11	13	
	26	7	12	10		58	11	14	
	27	15	8	12		57	8	12	
	28	9	8	14		56	19	12	
	29	14	12	23		55	10	13	
	30	8	11	12		54	12	32	
	31	5	10	4		53	6	14	
	32	13	19	21		52	32	22	
	33	10	12	19		51	8	22	

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SAMPLE NO.	Cu ppm	Pb ppm	SAMPLE NO.	Cu ppm	Pb ppm
BLO 50+008	7	16	BLO 14+008	11	13
49	8	14	13	5	11
48	8	12	12	8	12
47	7	16	11	10	13
46	10	16	10	23	12
45	22	17	9	14	12
44	11	16	7	8	12
43	20	16	6	13	23
42	13	17	5	13	17
41	9	16	4	18	11
40	15	17	3	15	11
39	13	20	2	29	12
38	5	14	1+008	46	15
37	14	49	SBL12E 71+008	38	33
36	28	65	70	5	20
35	10	16	69	3	15
34	10	12	67	4	36
33	12	21	66	6	21
32	8	16	65	4	14
31	10	12	63	4	12
30	16	16	62	5	12
29	9	12	61	12	21
28	14	13	59	6	16
27	14	10	58	3	17
26	12	8	SBL12E 57+008	2	14
25	13	8	L808 25+85E	17	22
24	7	12	L808 25+00E	8	10
23	6	12	24	8	8
22	7	12	23	6	12
21	7	9	22	4	12
20	27	12	21	4	11
19	23	14	20	4	12
18	7	9	19	9	16
17	7	9	18	15	20
16	16	11	17	5	19
15	8	13	16	7	19

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L808	15+00E	6	17		L768	31+00E	11	13	
	14	4	13			30	8	16	
	13	13	20			29	73	24	
	11	6	21			27	8	11	
	10	6	14			26	20	20	
	9	4	16			25	5	23	
	8	8	12			24	21	40	
	7	6	12			23	7	14	
	6	6	18			22	6	13	
	5	6	12			21	6	11	
	4	5	16			20	4	10	
	3	112	20			19	5	15	
	2	7	12			18	10	16	
L808	1+00E	10	10			17	9	16	
L808	1+00W	18	12			16	18	32	
	2	9	12			15	26	122	
	3	14	17			14	3	15	
	4	7	8			13	5	13	
	5	18	15			12	5	24	
	6	4	15			11	4	16	
	7	11	15			10	9	13	
	8	5	8			9	16	24	
	9	11	9			8	4	12	
	10	5	8			7	9	12	
	11	5	9			6	6	11	
	12	4	8			5	37	9	
	13	9	6			4	6	11	
L768	40+00E	18	8			3	4	10	
	39	4	11			2	7	10	
	38	6	9		L768	1+00E	46	22	
	37	8	8		L768	1+00W	9	10	
	36	4	9			2	10	13	
	35	4	10			3	5	10	
	34	3	8			4	10	16	
	33	17	13			5	6	9	
	32	43	21			6	8	9	

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L76B	7+00W	12	9		L72B	12+00E	16	8	
	8	6	8			11	5	12	
	9	7	5			10	4	12	
	10	13	8			9	4	12	
	11	10	8			8	6	20	
	12	18	9			7	8	13	
	13	28	12		L68B	40+90E	6	11	
	14	14	10		L68E	40+00E	7	11	
L72B	40+70E	6	9			39	7	9	
L72B	40+00E	9	11			38	8	10	
	39	44	12			37	5	12	
	38	13	16			36	7	11	
	37	8	8			35	16	13	
	36	5	8			34	11	15	
	35	4	10			33	11	15	
	34	7	9			32	16	24	
	33	35	14			31	11	14	
	31	10	14			30	5	9	
	30	12	15			29	8	13	
	29	162	64			28	6	11	
	28	10	11			27	9	12	
	27	8	16			26	16	14	
	26	10	17			25	8	14	
	25	8	14			24	7	24	
	24	10	15			23	10	35	
	23	9	19			22	4	20	
	22	4	8			21	9	13	
	21	12	30			20	11	11	
	20	7	18			19	14	24	
	19	5	20			18	18	23	
	18	11	14			17	6	15	
	17	5	11			16	9	12	
	16	9	16			15	7	19	
	15	5	15			14	8	22	
	14	6	20			13	5	17	
	13	18	16		L68B	12+00E	5	25	

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SAMPLE NO.		Cu PPM	Pb PPM		SAMPLE NO.	Cu PPM	Pb PPM	
L64B	39+00E	13	17		L60B	29+00E	66	41
	38	5	19			28	8	21
	37	12	15			27	4	15
	36	12	15			26	7	16
	35	5	12			25	34	24
	34	7	10			24	6	18
	33	6	12			23	11	36
	32	9	24			22	155	16
	31	11	16			21	20	17
	30	7	12			20	8	15
	29	16	15			19	9	13
	28	9	16			18	5	18
	27	33	65			17	12	16
	26	7	20			16	5	19
	25	10	22			15	5	11
	24	5	28			14	5	12
	23	10	20			13	9	21
	21	12	14			12	8	21
	20	14	26		L16B	1+00W	12	12
	19	8	14			1+85W	54	15
	18	5	13			5+00W	13	16
	17	6	12			6+00W	13	22
	16	4	12			7	4	15
	15	9	23			8	8	22
	14	4	18			9	13	52
	13	6	15			10	37	11
	12	5	14			11	117	22
L60B	37+50E	13	14			12	10	20
	37+00E	11	12			13	10	22
	36	4	11			14	28	46
	35	6	11			15	128	34
	34	5	13			16	30	75
	33	9	10			17	9	23
	32	4	9			18	9	27
	31	7	14			19	7	19
	30	38	40			20	6	16

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L168	21+00W	8	16		L168	57+00W	16	9	
	22	13	26			58	6	11	
	23	12	21			59	12	16	
	24	7	12			60	6	12	
	25	6	20			61	4	8	
	26	9	16			62	22	8	
	27	70	80			63	4	11	
	28	11	34			64	7	11	
	29	12	10			65	18	12	
	30	5	9			66	12	10	
	31	12	10			67	10	12	
	32	14	19			68	26	3	
	33	12	15			69	14	7	
	34	6	7			70	16	9	
	35	12	7		L128	1+00W	8	13	
	36	5	12			2	38	20	
	37	8	12			4	52	15	
	38	12	8			5	6	14	
	39	8	5			6	12	27	
	40	13	8			7	N.D.	19	
	41	6	14			8	16	47	
	42	26	18			9	95	15	
	43	72	27			10	66	34	
	44	16	24			11	3	15	
	45	18	23			12	10	26	
	46	3	14			13	4	14	
	47	17	12			14	8	23	
	48	16	32			15	6	18	
	49	19	13			16	6	18	
	50	23	49			17	3	20	
	51	16	15			18	4	12	
	52	5	11			19	15	16	
	53	12	12			20	12	15	
	54	82	16			21	10	16	
	55	4	12			22	12	22	
	56	7	11			23	3	15	

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SAMPLE NO.	Cu ppm	Pb ppm	SAMPLE NO.	Cu ppm	Pb ppm
L128 24+00W	6	18	L128 61+00W	8	10
25	6	13	62	7	6
26	13	33	63	6	7
27	27	40	64	9	8
28	6	30	65	14	7
29	9	15	66	25	8
30	4	9	67	10	7
31	6	13	68	6	5
32	13	15	L128 69+00W	7	11
33	11	10	L128 69+80W	18	6
34	10	12			
35	6	12			
36	9	12			N.D. Not Detected.
37	3	8			
38	8	27			
39	12	8			
40	14	8			
41	7	13			
42	6	11			
43	22	16			
44	22	36			
45	6	12			
46	14	12			
47	14	13			
48	13	8			
49	24	13			
L128 51+00W	15	12			
52	6	13			
53	12	13			
54	15	20			
55	95	28			
56	6	10			
57	14	9			
58	12	20			
59	19	11			
60	13	10			

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W/W



Geochemical Lab Report

Extraction Cu, Pb - HNO₃-HCl

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Method A.A.

From Shield Geophysics Limited

Fraction Used -80 soils.

Date November 11, 1975

SAMPLE NO.			Cu ppm	Pb ppm	SAMPLE NO.		Cu ppm	Pb ppm	
L4S - 1+00E			18	11	L8S - 3+00E		11	22	
2+00E			7	29	4		14	15	
3			8	18	5		12	20	
4			6	18	6		7	10	
5			8	16	7		36	33	
6			9	17	8		5	15	
7			9	24	9		5	20	
8			15	26	10		8	17	
9			10	21	11		4	14	
10			20	35	12		5	19	
11			12	9	13		6	14	
12			10	14	14		7	14	
13			12	15	15		6	15	
14			8	27	16		5	15	
15			34	13	17		6	13	
16			95	17	18		11	12	
17			108	20	19		9	18	
18			8	14	20		7	12	
19			6	14	21		6	14	
20			6	8	22		10	15	
21			6	9	23		11	14	
22			10	12	24		8	13	
23			7	11	25		36	70	
24			13	12	26		14	17	
25			34	18	27		18	14	
26			3	8	28		5	13	
27			8	19	29		6	15	
29			4	20	30		29	27	
L4S - 30+00E			3	22	L8S - 31+00E		62	16	
L8S - 1+00E			12	17	L12S - 1+00E		11	18	
2			9	23	2		10	17	

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SAMPLE NO.		Cu PPM	Pb PPM		SAMPLE NO.		Cu PPM	Pb PPM	
L12S - 3+00E		13	40		L16S - 8+00E		18	16	
4		10	22		9		8	25	
5		8	14		10		7	25	
6		22	19		11		13	18	
7		11	20		12		10	13	
8		19	25		13		4	16	
9		8	24		14		4	17	
10		12	22		15		5	24	
11		11	22		16		8	27	
12		12	17		17		10	41	
13		9	20		18		4	13	
14		13	21		19		7	19	
15		11	19		20		5	16	
16		6	17		21		8	75	
17		5	13		22		14	21	
18		8	18		23		12	22	
19		14	15		24		72	29	
20		9	20		26		6	24	
21		12	19		27		14	16	
22		27	37		28		12	16	
23		13	19		29		18	27	
24		14	13		30		11	16	
25		7	15		31		9	19	
26		6	15		32		11	16	
27		9	12		33		10	19	
28		32	13		34		7	16	
29		6	15		35		6	18	
30		16	21		36		28	32	
L12S - 31+00E		12	18		L16S - 40+00E		8	17	
L16S - 1+00E		5	16		41		8	12	
2		12	20		42		7	15	
3		19	22		43		6	14	
4		8	20		44		4	12	
5		18	12		45		6	11	
6		17	17		46		6	15	
7		11	15		47		4	13	

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SAMPLE NO.	Cu ppm	Pb ppm	SAMPLE NO.	Cu ppm	Pb ppm
L168 - 48+00E	6	15	L208 - 34+00E	16	74
49	7	21	35	6	16
L168 - 49+90E	24	28	37	10	16
L208 - 1+00E	28	43	38	29	20
2	9	32	41	53	55
3	4	18	42	12	12
4	8	15	43	8	18
5	12	14	44	9	19
6	4	15	45	5	14
7	5	21	46	3	20
8	12	25	47	12	40
9	8	20	48	5	17
10	3	21	49	13	35
11	28	49	L248 - 1+00E	14	20
12	2	21	2	52	24
13	4	20	3	12	27
14	5	21	4	16	44
15	10	40	5	32	34
16	4	16	6	18	17
17	2	14	7	8	13
18	8	29	8	4	14
19	16	21	9	20	27
20	4	15	10	280	40
21	8	22	11	10	19
22	4	19	12	11	20
23	8	19	13	5	20
24	9	17	14	7	23
25	4	16	15	6	21
26	21	22	16	3	21
27	6	13	17	6	19
28	9	16	18	40	174
29	37	17	19	17	24
30	20	13	20	8	28
31	12	8	21	4	21
32	3	10	22	17	29
33	2	11	23	14	49

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SAMPLE NO.	Cu ppm	Pb ppm	SAMPLE NO.	Cu ppm	Pb ppm
L248 - 24+00E	15	116	L288 - 11+00E	8	21
25	12	19	12	87	21
26	19	48	13	11	20
27	10	17	14	69	40
28	2	15	15	28	39
29	8	20	16	5	19
30	28	21	17	5	18
31	8	17	18	14	13
32	16	66	19	24	41
33	7	15	20	13	48
34	18	23	21	13	20
35	14	31	22	9	22
37	6	12	23	11	32
38	8	27	24	5	12
39	4	13	25	6	21
39+50E	9	15	26	8	38
41+00E	12	17	27	8	25
42	10	37	28	10	16
43	13	49	29	11	15
44	6	30	30	10	15
45	13	24	31	14	40
46	8	20	32	7	15
47	3	18	33	10	15
48	4	16	34	9	14
49+00E	31	50	35	8	12
49+60E	7	44	36	15	45
L288 - 1+00E	10	23	L328 - 1+00E	12	18
2	11	19	2	8	35
3	20	56	3	6	19
4	3	14	4	10	28
5	7	18	5	8	21
6	12	28	6	46	25
7	8	13	7	16	20
8	11	27	8	78	17
9	15	9	9	7	19
10	6	13	10	17	25

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L328 - 12+00E		9	23		L368 - 12+00E		8	30	
13		12	27		13		14	25	
14		10	14		14		11	28	
15		7	37		15		8	18	
16		7	18		16		10	22	
17		9	17		17		12	17	
18		13	22		18		10	31	
19		16	36		19		4	25	
20		12	24		20		11	21	
21		8	29		21		12	41	
22		16	29		22		14	30	
23		9	25		23		22	40	
24		5	15		24		20	16	
25		23	16		25		8	23	
26		10	27		26		12	42	
27		11	12		27		13	18	
28		14	15		28		2	16	
29		22	16		29		57	38	
30		6	15		30		8	15	
31		12	14		31		13	14	
32		14	16		32		14	12	
33		3	13		33		14	18	
34		8	12		34		10	13	
35		10	20		35		10	17	
L328 - 36+00E		7	15		36		7	15	
L368 - 1+00E		6	12		L408 - 1+00E		8	16	
2		7	19		2		10	14	
3		28	47		3		13	16	
4		24	18		4		6	15	
5		10	15		5		10	16	
6		22	25		6		10	21	
7		12	89		7		10	16	
8		10	19		8		9	16	
9		4	19		9		7	16	
10		18	18		10		8	18	
11		10	20		11		12	14	

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L408 - 12+00E		12	22		L448 - 1+00E		11	16	
13		14	19		2		6	18	
14		17	16		3		4	12	
15		7	19		4		18	14	
16		12	22		5		8	15	
17		14	31		6		8	17	
18		8	20		7		12	15	
19		12	22		8		16	19	
20		4	18		9		10	19	
21		8	21		10		12	16	
22		14	20		11		53	32	
23		6	18		12		10	19	
24		15	28		13		8	21	
25		8	41		14		18	14	
26		12	45		15		8	16	
27		28	24		16		10	16	
28		8	22		17		11	17	
29		14	18		18		7	17	
30		26	16		19		7	16	
31		8	14		20		4	13	
32		28	26		21		10	18	
33		6	16		22		5	18	
34		7	12		23		12	28	
35		7	16		24		8	28	
L408 - 36+00E		4	12		25		18	46	
BL43E - 14+00S		4	14		26		10	16	
15		6	13		27		4	17	
17		7	15		28		8	14	
18		6	14		29		6	14	
19		8	19		30		16	24	
21		6	18		31		16	16	
22		9	28		32		5	9	
23		12	52		33		18	16	
25		12	34		34		20	17	
26		14	26		35		6	12	
27		8	19		L448 - 36+00E		10	21	

MM

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L488 - 1+00E		6	14		L528 - 1+00E		7	16	
2		4	13		2		25	12	
3		6	11		3		18	22	
4		79	23		4		2	19	
5		10	12		5		8	19	
6		9	19		6		6	14	
7		8	20		7		19	23	
8		11	19		8		12	16	
9		9	18		9		8	15	
10		11	25		10		9	16	
11		8	24		11		8	15	
12		6	14		12		13	18	
13		6	14		13		8	18	
14		6	18		14		10	11	
15		6	17		15		6	20	
16		21	30		16		11	16	
17		36	20		17		10	14	
18		2	12		18		16	8	
19		6	17		19		10	16	
20		24	12		20		4	8	
21		5	16		21		10	26	
22		16	48		22		10	21	
23		6	14		23		11	20	
24		6	20		24		6	14	
25		13	20		25		7	13	
26		3	13		26		14	12	
27		14	14		27		9	25	
28		5	29		L528 - 28+00E		8	28	
29		10	16		L528 - 1+00W		6	15	
30		8	24		2		9	18	
31		4	15		3		12	15	
32		12	16		4		12	16	
33		16	24		5		12	18	
34		9	20		6		9	15	
35		9	20		7		5	4	
L488 - 36 00E		10	16		9		6	10	

W/W

BONDAR-CLEGG & COMPANY LTD.

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SAMPLE NO.	Cu ppm	Pb ppm	SAMPLE NO.	Cu ppm	Pb ppm
L52S - 10+00W	6	11	L56S - 35+60E	5	12
L56S - 1+00E	17	12	L56S - 1+00W	11	28
2	10	12	2	12	19
3	8	15	3	12	20
4	14	11	4	20	16
5	7	8	5	8	15
6	8	10	6	21	15
7	14	20	7	8	8
8	10	28	8	12	13
9	8	15	9	52	15
10	5	12	10	67	21
11	11	16	L76S - 15+00W	8	8
12	7	22	16	11	12
13	8	12	17	6	11
14	7	11	18	8	12
15	12	20	19	6	12
16	6	20	20	5	9
17	9	15	21	4	10
18	5	14	22	10	12
19	6	15	23	6	10
20	16	28	24	5	8
21	20	27	25	32	14
22	8	16	L76S - 30+00W	8	11
23	20	25	L80S - 14+00W	8	12
24	9	14	15	8	12
25	20	28	16	10	11
26	22	25	17	8	12
27	18	21	18	14	12
28	9	18	19	6	12
29	48	46	20	8	8
30	7	32	21	3	7
31	23	17	22	4	10
32	8	12	23+00W	9	8
33	8	10	26+00W	8	12
34	6	16	27	9	10
35+00E	15	12	28	10	5

W/W

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SAMPLE NO.	Cu ppm	Pb ppm	SAMPLE NO.					
L80S - 29+00W	7	8						
30	13	8						
BL43E - 27+40S	6	14						
L52S - 29+00E	7	16						
30	2	16						
31	3	15						
32	3	12						
33	110	28						
34	8	16						
35	10	16						

576

WAV



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Extraction Cu, Pb - HNO₃-HCl

Report No. 1136-5

Method A.A.

From Shield Geophysics Limited,

Fraction Used -80 soils.

Date November 14, 19 75

SAMPLE NO.	Cu ppm	Pb ppm	SAMPLE NO.	Cu ppm	Pb ppm
LAS 1+00W	22	13	LAS 33+00W	13	10
LAS 3+00W	10	9	34	6	9
4	6	8	35	18	10
5	7	14	36	5	9
6	3	13	37	6	9
7	6	25	38	9	8
8	8	20	39	9	11
9	2	20	40	10	14
10	3	16	41	9	15
11	8	20	42	19	15
12	6	12	43	9	12
13	4	10	44	14	13
14	4	10	45	7	12
15	8	15	46	12	13
16	4	18	47	12	12
17	4	12	48	6	10
18	10	13	49	3	8
19	4	21	50	23	23
20	20	10	51	38	11
21	7	13	52	310	24
22	17	14	53	570	56
23	30	20	54	4	9
24	7	12	55	5	8
25	7	14	56	11	8
26	16	11	57	8	11
27	18	21	58	65	6
28	6	12	59	10	11
29	5	8	60	6	8
30	6	11	61	12	8
31	6	14	62	4	8
32	7	11	63	6	8

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
LAS 64+00W		14	9		LAS 35+00W		7	11	
65		11	10		36		12	12	
66		22	8		37		5	12	
67		18	8		38		8	12	
LAS 1+00W		38	17		39		9	8	
LAS 4+00W		5	17		40		9	10	
5		6	13		41		8	9	
6		4	16		42		10	11	
7		235	127		43		11	10	
8		55	40		44		23	42	
9		4	12		45		7	12	
10		4	23		46		7	8	
11		7	24		47		6	11	
12		9	16		48		11	10	
13		4	16		49		8	9	
14		9	20		50		5	13	
15		11	17		51		15	14	
16		8	19		52		12	12	
17		6	16		53		6	13	
18		22	24		54		40	20	
19		15	16		55		9	12	
20		6	12		56		6	8	
21		10	16		57		9	8	
22		8	12		58		8	8	
23		12	12		59		18	8	
24		7	12		60		13	8	
25		12	14		61		17	7	
26		6	14		62		9	8	
27		32	71		63		11	7	
28		17	20		64		17	7	
29		5	20		65		11	7	
30		11	12		66		6	7	
31		4	12		67		4	8	
32		65	39		67+70W		5	8	
33		12	8		LAS 1+00W		5	10	
34		5	8		2		25	17	

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L208	3+00W	7	14		L208	41+00W	103	16	
	4	6	9			42	101	28	
	5	76	28			43	6	27	
	6	10	27			44	38	68	
	7	7	27			45	8	15	
	8	6	32			46	7	10	
	9	9	25			47	11	24	
	10	4	17			48	16	12	
	11	13	33			49	9	12	
	12	4	23			50	11	12	
	13	5	17			51	42	48	
	14	7	18			52	34	16	
	15	6	19			53	8	9	
	16	4	16			54	6	9	
	17	4	20			55	6	11	
	18	10	23			56	5	10	
	19	4	17			57	4	8	
	20	7	21			58	12	9	
	21	5	17			59	8	14	
	22	3	11			60	3	11	
	23	19	28			61	4	8	
	24	6	19			62	14	11	
L208	26+00W	6	26			63	6	8	
	27	8	18			64	7	10	
	28	11	26		BB L21W	29+00E	5	21	
	29	6	17			30	8	23	
	30	1	10			31	11	22	
	31	6	15			32	8	22	
	32	8	11			33	5	16	
L208	34+00W	8	18			34	4	14	
	35	8	15			35	4	14	
	36	7	16			37	5	27	
	37	8	14			38	5	15	
	38	6	7			39	6	15	
	39	9	11		L24S	1+00W	7	9	
	40	9	10			2	10	10	
						3	7	12	

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L24B 4+00W		7	13		L24B 47+00W		34	22	
6		30	33		48		31	20	
7		9	24		49		6	14	
8		5	26		50		21	21	
9		4	21		51		36	133	
10		4	15		52		13	12	
11		6	16		53		9	7	
12		4	14		54		6	8	
13		12	16		55		6	18	
14		6	32		56		8	9	
15		10	33		57		10	11	
16		360	20		58		16	16	
17		10	13		59		12	12	
18		7	17		60		10	10	
20		10	23		61		33	9	
21		17	34		62		23	9	
L24B 27+00W		20	21		L28B 1+00W		10	7	
28		7	17		2		16	10	
29		3	12		3		30	15	
30		5	19		4		8	16	
31		8	18		5		20	9	
32		7	16		6		4	10	
33		5	12		L28B 8+00W		12	30	
34		11	13		9		14	23	
35		14	8		10		6	17	
36		21	16		11		7	19	
37		36	19		12		10	17	
38		9	12		13		23	25	
39		7	8		L28B 17+00W		14	40	
40		7	8		18		13	16	
41		8	8		19		16	9	
42		18	13		20		3	12	
43		12	10		21		4	13	
44		17	17		22		8	19	
45		32	16		22+55W		10	16	
46		27	23		L28B 28+00W		12	24	

BONDAR-O'EGG & COMPANY LTD.

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L288	29+00W	8	13		L328	8+00W	9	25	
	30	5	16			9	9	23	
	31	12	20			10	11	22	
	32	5	9			11	8	32	
	33	10	12			12	29	26	
	34	45	20		L328	20+00W	17	26	
	35	48	9			21	10	13	
	36	12	11			22	10	19	
	37	4	12			23	40	10	
	38	10	9			24	56	34	
	39	8	12			25	50	22	
	40	10	8			27	9	20	
	41	9	11			28	4	18	
	42	2	10			29	8	17	
	43	12	15			30	7	12	
	44	4	12			31	8	22	
	45	9	16			32	6	12	
	46	18	13			33	14	12	
	47	15	14			34	21	10	
	48	7	12			35	86	20	
	49	16	35			36	11	16	
	50	4	8			37	8	14	
	51	12	20			38	61	8	
	52	42	16			39	56	57	
	53	45	5			40	12	10	
	54	8	13			41	9	9	
	55	16	12			42	11	11	
	56	10	11			43	14	13	
L328	11+00E	280	59			44	13	13	
L328	14+00W	7	23			45	10	16	
	2	4	9			46	27	24	
	3	7	12			47	7	32	
	4	17	13			48	7	14	
	5	5	11			49	7	10	
	6	10	17			50	18	19	
	7	27	15			51	29	32	

Geochemical Lab Report

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SAMPLE NO.		Cu PPM	Pb PPM		SAMPLE NO.		Cu PPM	Pb PPM	
L328	52+00W	20	27		L368	40+00W	16	10	
	53+00W	12	15			41	4	10	
	53+40W	29	20			42	4	12	
L368	1+00W	74	85			43	3	8	
	2	72	66			44	15	11	
	3	13	11			45	11	31	
	4	4	10			46	12	20	
	5	7	12			47	18	25	
	6	16	12			48	14	12	
	7	66	27			49	10	12	
	8	21	9			50	9	13	
	9	7	21			51	10	27	
	10	4	21			52	5	12	
	11	7	22		L408	1+00W	13	17	
	12	111	90			2	18	30	
L368	19+00W	12	21			3	5	12	
	20	6	18			4	7	10	
	21	5	25			5	56	11	
	22	6	15			6	87	16	
	23	10	23			7	51	20	
	24	15	18			8	23	12	
	25	7	21			9	9	9	
	26	8	16			10	6	15	
	27	9	20			11	8	38	
	28	6	16			12	9	27	
	29	6	12			13	16	26	
	30	5	14			14	12	20	
	31	5	9			15	22	20	
	32	8	16			16	4	14	
	33	9	22			17	4	12	
	34	12	17			18	4	15	
	35	22	22			19	4	31	
	36	11	17			20	5	18	
	37	181	30			21	3	12	
	38	35	39			22	7	21	
	39	42	57			23	9	16	

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L408	24+00W	12	23		L408	19+00W	4	16	
	25	8	14			20	6	12	
	26	6	12			21	4	13	
	27	4	13			22	4	11	
	28	5	16			23	15	4	
	29	6	12			24	38	14	
	30	9	18			25	79	11	
	31	8	16			26	15	20	
	32	7	14			27	14	20	
	33	10	20			28	12	19	
	34	9	17			29	9	24	
	35	6	13			30	3	15	
	36	10	14			31	7	14	
	37	5	12			32	4	12	
	38	5	16			33	8	18	
	39	9	19		L408	1+00W	7	20	
	40	17	17			2	6	11	
	40+65W	9	16			3	12	20	
L408	1+00W	3	20			4	19	10	
	2	9	15			5	13	12	
	3	16	14			6	7	10	
	4	7	8			9	163	48	
	5	18	8			10	17	23	
	6	6	8			11	23	16	
	7	680	12			12	30	13	
	8	34	20			13	8	19	
	9	7	10			14	7	16	
	10	3	0			15	6	12	
	11	51	36			16	5	11	
	12	5	18			17	5	10	
	13	20	23			18	10	12	
	14	23	27			19	6	16	
	15	8	15			20	9	12	
	16	10	13			21	63	19	
	17	3	10			22	34	3	
	18	4	15			23	8	3	

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
L488	24+00W	7	7		L568	16+00W	37	20	
	25	13	4			17	10	16	
	26	36	6			18	6	12	
	27	11	11			19	14	12	
	28	6	12			20	4	12	
	29	4	11			21	4	11	
	30	5	11			22	18	16	
	31	4	13			23	10	11	
	32	8	15			24	6	8	
L528	12+00W	8	16			25	9	12	
	13	5	12			26	6	10	
	14	10	16			27	2	9	
	15	7	17			28	2	10	
	16	7	18			29	3	10	
	19	10	12			30	4	10	
	20	5	10			31	7	12	
	21	7	11			32	3	12	
	22	6	15			33	3	9	
	23	14	15			34	4	11	
	24	7	9			35	6	18	
	25	4	9		L608	1+00W	9	11	
	26	4	10			2	10	12	
	27	4	10			3	6	16	
	28	3	12			4	33	32	
	29	6	10			5	11	14	
	30	4	11			6	6	9	
	31	5	12			7	12	12	
	32	5	8			8	35	16	
	33	4	12			9	21	16	
	34	3	14			10	5	15	
	35	3	8			11	44	12	
	36	4	8			12	46	13	
L568	12+00W	55	19			14	19	15	
	13	9	15			15	7	17	
	14	19	13			16	8	16	
	15	7	12			17	6	11	

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SAMPLE NO.		Cu ppm	Pb ppm	SAMPLE NO.		Cu ppm	Pb ppm
L608	18+00W	5	15	L648	18+00W	10	15
	19	9	12		19	5	10
	20	10	15		20	27	16
	21	8	13		21	3	10
	22	10	17		22	5	8
	23	8	13		23	4	12
	24	7	8		24	4	8
	25	9	14		25	4	7
	26	5	12		26	2	8
	27	14	9		27	4	11
	28	2	8		28	3	8
	29	5	5		29	1	10
	30	2	7		30	2	8
	31	3	12		31	2	9
	32	7	16		32	3	9
	33	4	12			3	9
	34	7	15	L688	32+50W	12	13
	35	58	45			59	5
L648	1+00W	18	15		3	12	15
	2	8	13		4	11	14
	3	7	16		5	4	9
	4	9	12		6	6	20
	5	12	5		7	17	13
	6	34	7		8	4	6
	7	16	12		9	6	9
	8	13	8		10	4	9
	9	22	13		11	20	15
	10	6	9		12	57	15
	11	12	11		15	5	9
	11+60W	10	11		16	6	10
	12	8	19		17	4	12
	13	3	8		18	9	10
	14	7	10		19	3	9
	15	32	11		20	4	8
	16	5	16		21	111	14
	17	5	10		22	4	14

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SAMPLE NO.		Cu ppm	Pb ppm		SAMPLE NO.		Cu ppm	Pb ppm	
1688	23+00W	4	7		LT28	28+00W	44	17	
	24	3	9						
	25	6	7						
	26	2	13						
	27	12	17						
	28	7	11						
	29	3	13						
	30	4	13						
	31	5	13						
	32	21	8						
LT28	1+00W	6	11						
	2	5	12						
	3	12	13						
	4	15	15						
	5	4	12						
	6	4	8						
	7	4	12						
	8	24	9						
	9	8	12						
	10	6	12						
	11	5	16						
	12	6	9						
	13	15	13						
	14	5	10						
	15	6	11						
	16	6	8						
	17	4	11						
	18	3	9						
	19	4	9						
	21	13	10						
	22	12	10						
	23	10	10						
	24	9	11						
	25	3	8						
	26	7	16						
	27	8	14						

675

345
648
540
576
675

2,784 Samplers

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Show instrument technical data in each space for
type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

Instrument _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken 60

Total Number of Samples 2784

Type of Sample soil
(Nature of Material)

Average Sample Weight 2 oz.

Method of Collection grub hoe & auger

Soil Horizon Sampled B & minor muskeg

Horizon Development good

Sample Depth average 12"

Terrain dry sandy loam

Drainage Development young - southwards

Estimated Range of Overburden Thickness
average - 10' with range of 0 to 20'

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis -80

subsequent to drying by Bondar-Clegg

Co. of Ottawa

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory Bondar-Clegg & Co.

Extraction Method hot HNO₃ - HCl

Analytical Method atomic absorption

Reagents Used _____

General samples from north half of
property analyzed for Cu, Pb, Zn

samples from south half of
property analyzed for Cu, Pb

MAJESTIC WILEY PROPERTY
CAIRO TOWNSHIP

Claim No.	Days of Credit	Claim No.	Days of Credit
L-419398	3	L-419430	3
L-419399	3	L-419431	3
L-419400	3	L-419432	3
L-419401	3	L-419433	3
L-419402	3	L-419434	3
L-419403	3	L-419435	3
L-419404	3	L-419436	3
L-419405	3	L-419437	3
L-419406	3	L-419438	3
L-419407	3	L-419439	3
L-419408	3	L-419440	3
L-419409	3	L-419441 $\frac{1}{4}$ (Water)	3
L-419410	3	L-419442 $\frac{1}{2}$ (Water)	3
L-419411	3	L-419443	3
L-419412	3	L-419444	3
L-419413	3	L-419445	3
L-419414	3	L-419446	3
L-419415	3	L-419447 $\frac{2}{3}$ (Water)	3
L-419416 $\frac{1}{4}$ (Water) not covered	3	L-419448	3
L-419417 $\frac{1}{4}$ (Water)	3	L-419449	3
L-419418	3	L-419450	3
L-419419	3	L-419451	3
L-419420	3	L-419452	3
L-419421	3	L-421011	3
L-419422	3	L-421012 $\frac{1}{3}$ (Water)	3
L-419423	3	L-421013	3
L-419424	3	L-421014	3

54 claims

M. F. Graham

Emile Chorzepe
P. O. Box 428
Kirkland Lake, Ontario

Miners Licence K16285

SCHEDULE

<u>Claim No.</u>		<u>Days</u>
L 419398	$\frac{1}{4}$ not covered (Water)	40
419399		40
419400		40
419401		40
419402		40
419403		40
419404		40
419405		40
419406		40
419407		40
419408		40
419409		40
419410		40
419411		40
419412		40
419413		40
419414		40
419415		40
419416	$\frac{1}{4}$ (Water)	40
419417	$\frac{1}{4}$ (Water)	40
419418		40
419419		40
419420		40
419421		40
419422		40
419423		40
419424		40
419425		40
419426		40
419427		40

Gerard Bastarache
62 Government Road West
Kirkland Lake, Ontario

Miners Licence M15468

SCHEDULE

<u>Claim No.</u>	<u>Days</u>
L 419428	40
419429	40
419430	40
419431	40
419432	40
419433	40
419434	40
419435	40
419436 $\frac{1}{4}$ not covered (Water)	40
419437	40
419438	40
419439	40
419440	40
419441 $\frac{1}{4}$ (Water)	40
419442 $\frac{1}{2}$ (Water)	40
419443	40
419444	40
419445	40
419446	40
419447 $\frac{2}{3}$ (Water)	40
419448	40
419449	40
419450	40
419451	40
419452	40
421010	40
421011	40
421012 $\frac{1}{3}$ (Water)	40
421013	40
421014	40



Ontario

Ministry of Natural Resources

Lands Administration Branch

Projects Unit

Technical Assessment Work Credits

File 2.1986

Recorded Holder	Majestic Wiley Contractors Ltd., Emil Chrozepa and Gerard Bastarache
Township or Area	Cairo Township

Type of survey and number of Assessment days credit per claim	ASSAYING
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Section 86 (18) <u>19 & 20</u> see across days Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	<p><u>2,784</u> Samples collected from Mining Claims: L. 419398 to 452 inclusive 421010 to 14 "</p> <p>Amount spent on analyzing samples = \$6,425.70</p> <p>Total assessment days credit allowed = 428.4</p> <p>The assessment work credits of 428.4 days must be recorded on the above <u>60</u> Mining Claims equally as <u>7.14</u> days for each claim.</p> <p><i>Leo Bernier</i></p> <p>Approved - February 27, 1976</p>
Notice of Intent to be issued: <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. <input type="checkbox"/> No credits have been allowed for the following mining claims as they were not sufficiently covered by the survey: _____ _____ _____ _____ _____	

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;

Alma Twp. - M.202

THE TOWNSHIP OF **2-1986**

CAIRO

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS ———
- IMPROVED ROADS ———
- KING'S HIGHWAYS ———
- RAILWAYS ———
- POWER LINES ———
- MARSH OR MUSKEG ———
- MINES Ⓜ
- CANCELLED C.

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers

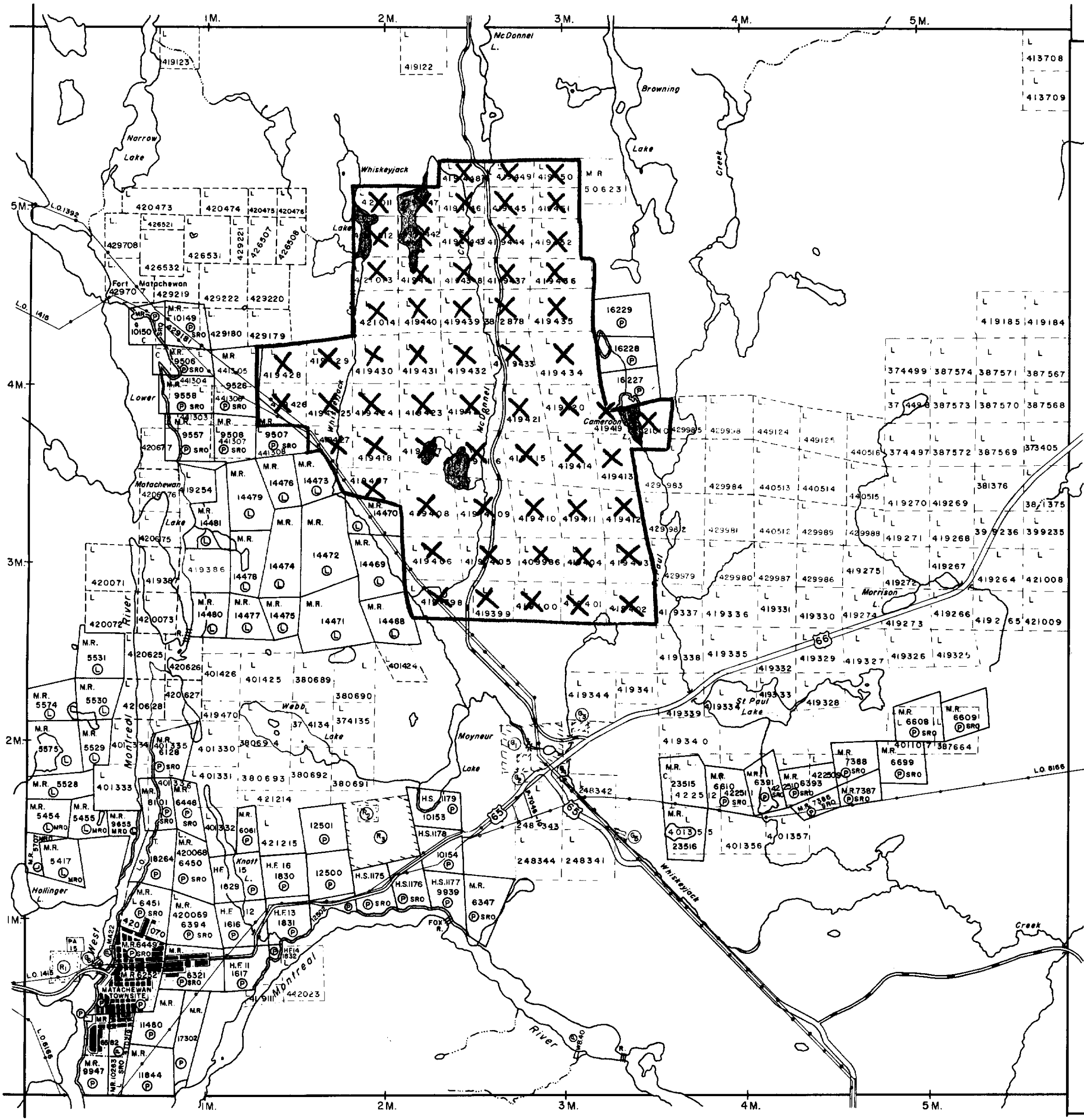
AREAS WITHDRAWN FROM STAKING				
S.R. - SURFACE RIGHTS		M.R. - MINING RIGHTS		
Section	Order No.	Date	Disposition	File
Ⓟ	V.H.F. Tower cabin site		S.R.	15376 v.2
Ⓟ	42(R.50' 60)	1/8/68	S.R.	177224
Ⓟ	43(R.50' 70)	7/1/75	S.R.	177224

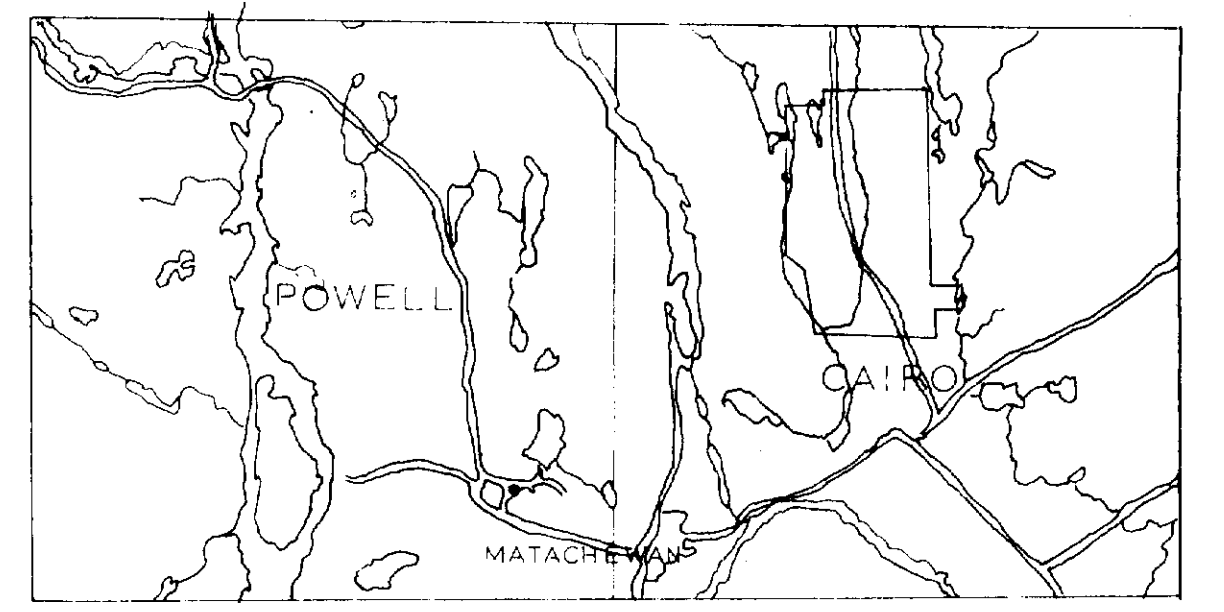
SAND and GRAVEL			
Ⓟ	M.T.C. Gravel Pit 206	Ⓟ	M.N.R. Gravel File 127307
Ⓟ	M.T.C. Gravel Pit 1313	Ⓟ	Gravel Pit 205
Ⓟ	Gravel Pit 204, File 127307	Ⓟ	Gravel Pit

- MINING LANDS -
DATE OF ISSUE
DEC - 1 1975
MINISTRY
OF NATURAL RESOURCES

PLAN NO. **M.210**

ONTARIO
MINISTRY OF NATURAL RESOURCES
 SURVEYS AND MAPPING BRANCH





LOCATION SKETCH
1"=2 miles



LEGEND

- CENOZOIC**
- RECENT
Swamp and stream deposits
- PLEISTOCENE
Sand, gravel, clay
- UNCONFORMITY
- PRECAMBRIAN**
- PROTEROZOIC
- HURONIAN
- COBALT GROUP
- Gowanda Formation
- Hc Conglomerate
- Hg Greywacke
- Hq Quartzite
- Hs Slate
- UNCONFORMITY
- ARCHEAN
- MAFIC INTRUSIVE ROCKS (Matatchewan)
- Diabase, undifferentiated
- INTRUSIVE CONTACT
- SILIC INTRUSIVE ROCKS (Algoman)
- Syenite porphyry and coarse grained syenite

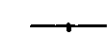
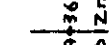
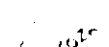





SYMBOLS

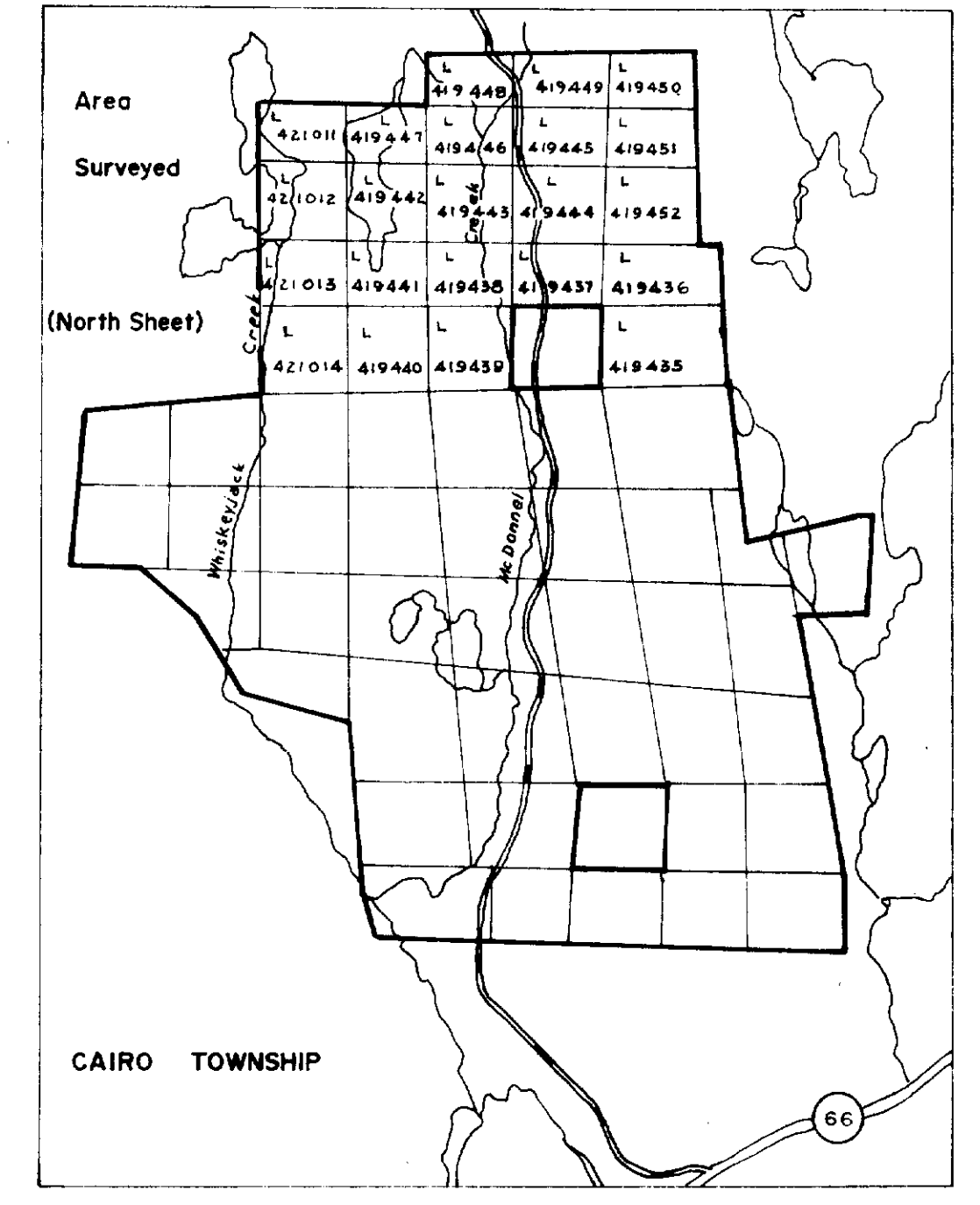
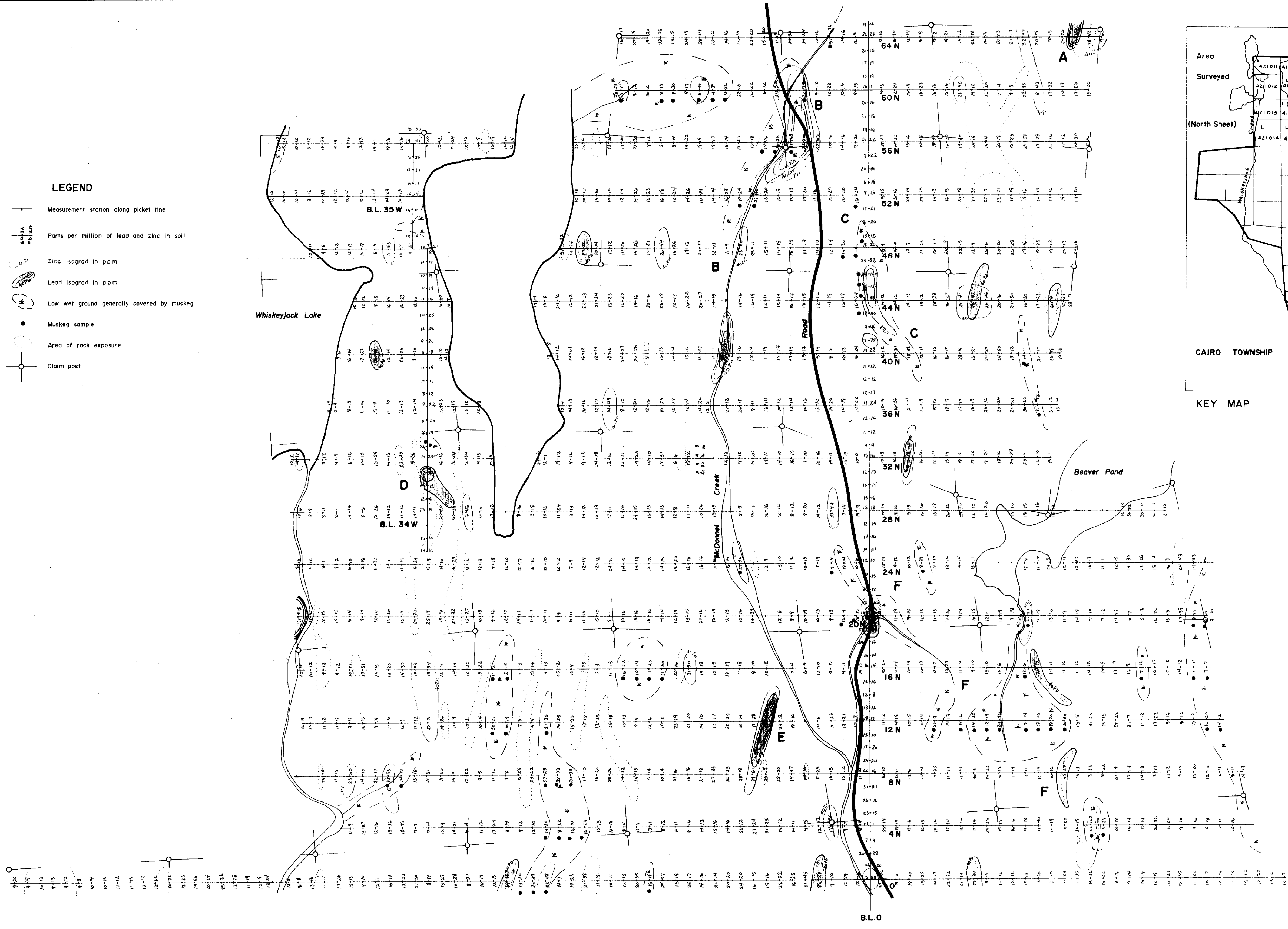
- Geologic contact defined, approximately located
- Outcrop boundary
- Swamp
- Dirt road
- Jeep trail
- Claim post, approximately located
- Attitude of bedding

R. F. Gordon
Ag 7/75

REVISED	WILEY PROPERTY
	CAIRO TWP
	MATACHEWAN AREA
PROJECT:	
PROJ. N ^o	SURVEYED BY: W.F.S.M. DATE: Aug 5, 1975
N.T.S.	DRAWN BY: S. PORTER SCALE: 1"=400 ft
DWG. N ^o	NORANDA EXPLORATION CO. LTD.
	OFFICE: THIMINS, ONTARIO

LEGEND

-  Measurement station along picket line
-  Parts per million of lead and zinc in soil
-  Zinc isograd in ppm
-  Lead isograd in ppm
-  Low wet ground generally covered by muskeg
-  Muskeg sample
-  Area of rock exposure
-  Claim post



KEY MAP one inch to one half mile

GEOCHEMICAL SURVEY Pb/Zn
 ON THE PROPERTY OF
MAJESTIC WILEY CONTRACTORS LTD.
 CAIRO TOWNSHIP ONTARIO

BY
SHIELD GEOPHYSICS LIMITED
 SCALE



OCTOBER

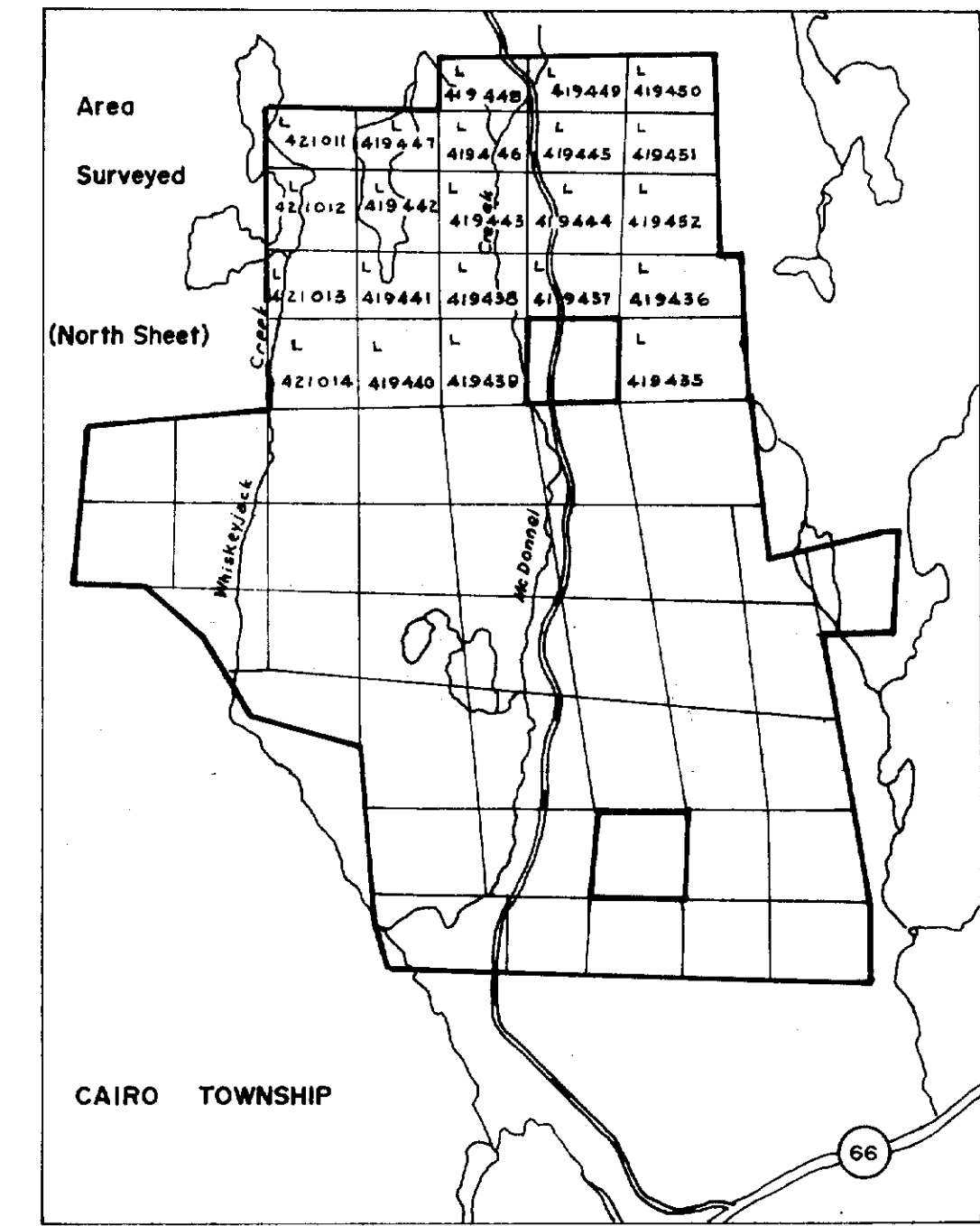
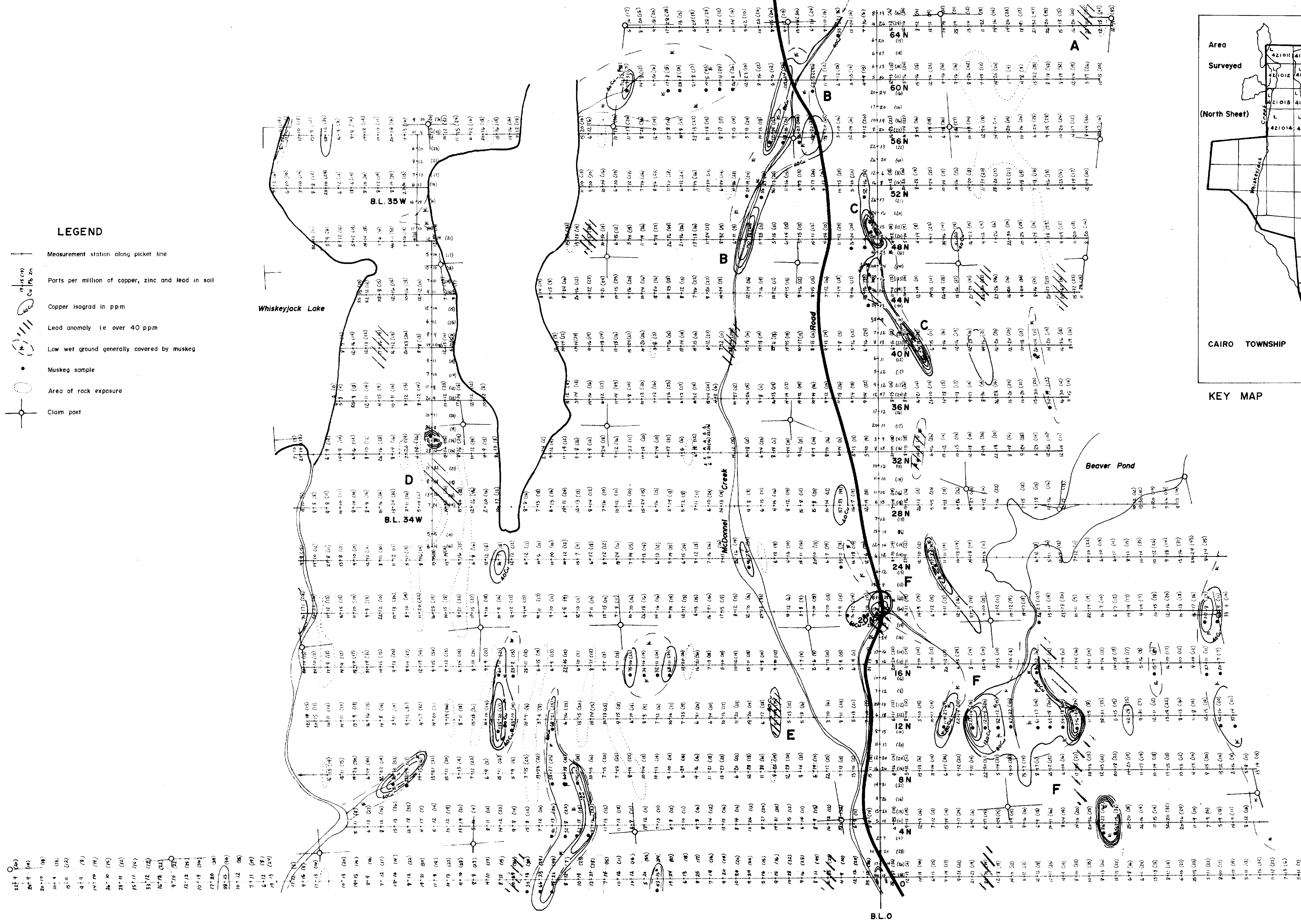
NORTH SHEET

1975 *[Signature]*
 Nov. 10. 75



LEGEND

- Measurement station along picket line
- Parts per million of copper, zinc and lead in soil
- Copper isograd in ppm
- Lead anomaly ie over 40 ppm
- Low wet ground generally covered by muskeg
- Muskeg sample
- Area of rock exposure
- Claim post



KEY MAP one inch to one half mile

GEOCHEMICAL SURVEY Cu/Pb
 ON THE PROPERTY OF
MAJESTIC WILEY CONTRACTORS LTD.
 CAIRO TOWNSHIP ONTARIO

BY
SHIELD GEOPHYSICS LIMITED

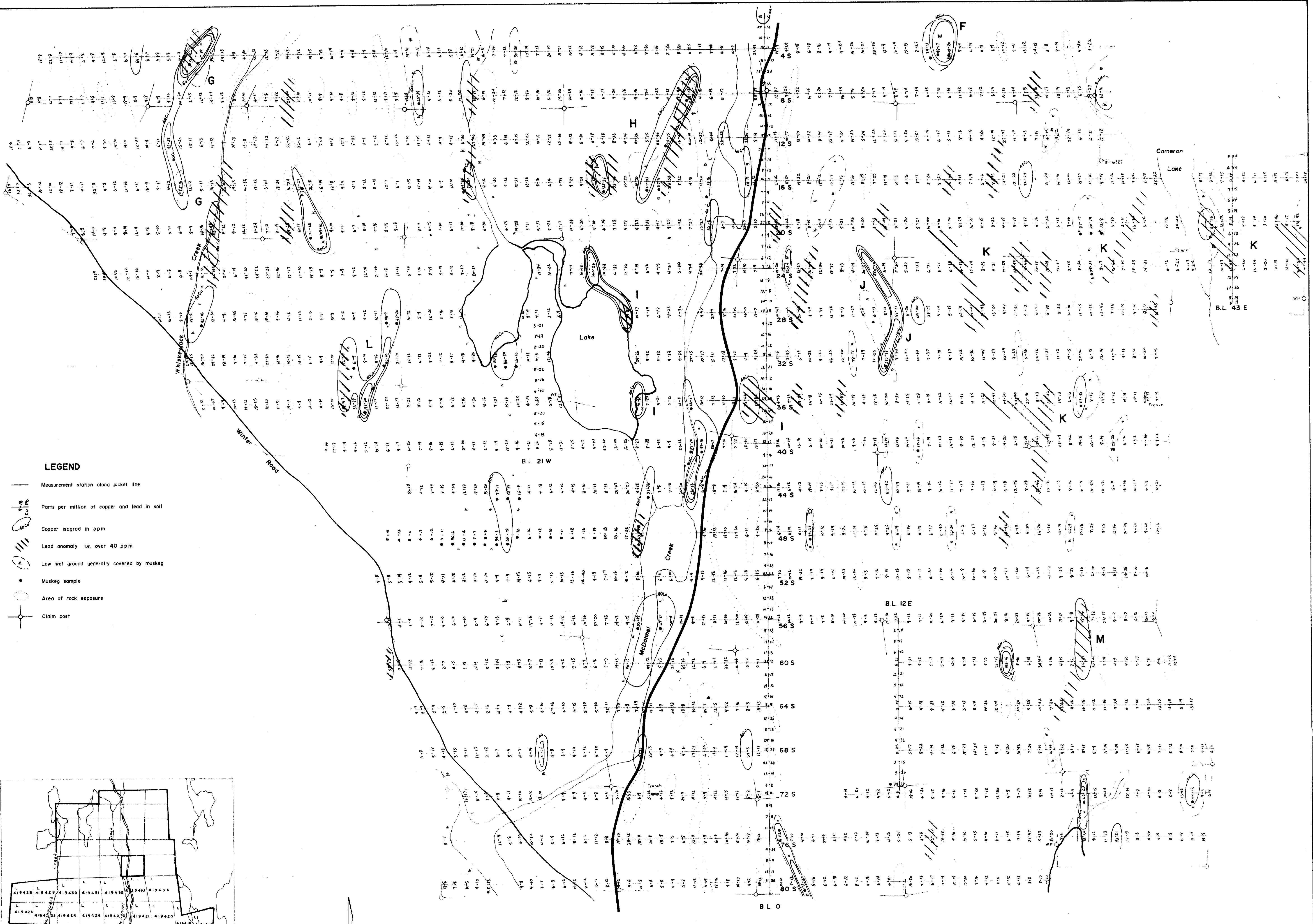


OCTOBER

NORTH SHEET

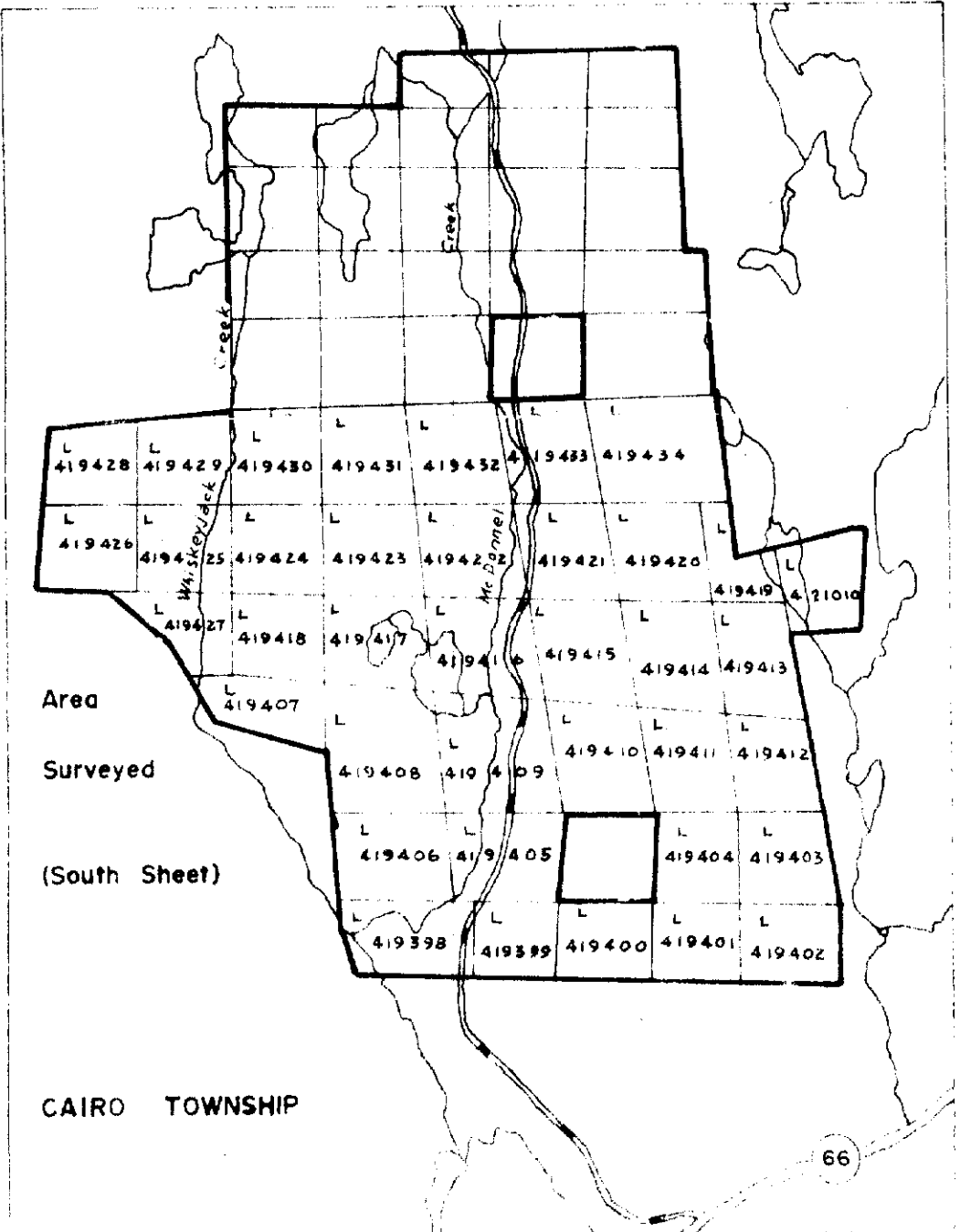
1975
 Nov. 10. 75





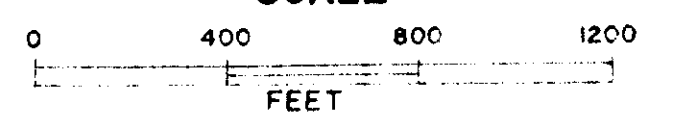
LEGEND

- Measurement station along picket line
- Parts per million of copper and lead in soil
- Copper isograd in ppm
- ▨ Lead anomaly i.e. over 40 ppm
- Low wet ground generally covered by muskeg
- Muskeg sample
- Area of rock exposure
- ⊕ Claim post



GEOCHEMICAL SURVEY cu/Ph
 ON THE PROPERTY OF
MAJESTIC WILEY CONTRACTORS LTD.
 CAIRO TOWNSHIP ONTARIO

BY
SHIELD GEOPHYSICS LIMITED
 SCALE



NOVEMBER

SOUTH SHEET

1975 *[Signature]*
 Nov. 10, 75



