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REPORT OF WORK ON
ALKENORE-BUFFALO AND
SPLIT LAKE PROPERTIES
SIOUX LOOKOUT, ONTARIO
FOR
GOLDWINN RESOURCES LTD.

BY

A. C. A. HOWE INTERNATIONAL LIMITED

D. J. GILLIS, B.Sc.

DECEMBER 11, 1980
TORONTO, ONTARIO

REPORT No. 420

A. C. A. HOWE INTERNATIONAL LIMITED

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SUMMARY

A. C. A. Howe International Limited has recently completed a comprehensive surface exploration program over two groups of claims located in the Sioux Lookout Area of Northern Ontario. This work consisted of grid preparation; line cutting; geological and topographical mapping; geophysical surveys; soil, rock geochemistry; bulldozer trenching and blasting.

As a result of this work 19 target areas have been outlined for additional investigation.

A diamond drilling program is recommended to test each of these target zones. This program is expected to total 4,775 feet at an estimated cost of \$125,000.00.

Details of this program are herein outlined.

1.0 INTRODUCTION

During the summer and fall of 1980, A. C. A. Howe International Limited completed an extensive surface investigation of two blocks of claims in the Sioux Lookout Area. The larger block known as the Alkenore-Buffalo property consists of 26 contiguous claims. The small block of 4 claims is known as the Split Lake property. Both blocks lie within the Patricia Mining Division and comprise claims 485009-485014; 485118-485135; 485138-485139 (Alkenore-Buffalo) and 485114-485117 (Split Lake). Work over each block included grid preparation (flagging lines and line cutting); detailed geological and topographical mapping; magnetometer surveys; VLF-EM surveys; and rock sampling.

In addition to the foregoing a limited amount of bulldozer trenching and blasting was carried out on the Alkenore-Buffalo Group. Maps showing the results of this work are appended at rear.

2.0 PROPERTY LOCATION AND ACCESS

The Alkenore-Buffalo property is located 16 miles by highway 642 east of Sioux Lookout. Access is gained by walking a half-mile east along the C.N.R. Sioux Lookout-Thunder Bay line from a point where railway and highway run close together 3 miles east of Alcona. The eastern part of this property borders Forty Mile Lake and is accessible by float plane. The Split Lake Group is located on the east arm of Split Lake and is accessible by float plane.

3.0 HISTORY OF PROPERTY

Data concerning the property is limited. Previous work was largely conducted through the period 1935 to 1940. Test pitting, trenching and diamond drilling were carried out in an effort to outline mineralized quartz veins. None of the diamond drill logs is on file with the Ontario Department of Mines. The Split Lake property was explored underground.

A summary of these works and their findings are presented as follows:

<u>COMPANY</u>	<u>TIME</u>	<u>WORK</u>	<u>RESULTS</u>
Split Lake Gold Mines Ltd.	1935-36	Diamond drilling	None reported.
	1936	2 compartment shaft developed on 100, 225, and 350 ft. levels. Work stopped in fall of 1936.	Diamond drilling from underground located other veins but contained not more than .1 oz Au/ton.
O.D.M. (Annual Report 46, Part 6)	1937	Channel samples	.02 - .2 oz Au/ton and averaged .08 over full width of veins. Thin (2") lenses of pyrite along the vein walls assayed up to .5 oz Au/ton
Alkenore-Buffalo Mines Ltd.	1936-37	Diamond drilling: 7000 feet	Zone 3: * DDH 4: 14' of .24 oz Au/ton DDH 5: 6' of V.G. DDH 24: 2½' of .73 oz Au/ton DDH 7: 2½' of .5 oz Au/ton Estimated ore shoot of approximately 70,000 tons at .24 oz Au/ton.
			Zone 9: * DDH 23: 10' of .45 oz Au/ton

*NOTE: Results of Zone 3 and Zone 9 are taken from contemporary newspaper account and could not be directly verified.

<u>COMPANY</u>	<u>TIME</u>	<u>WORK</u>	<u>RESULTS</u>
Alkenore-Buffalo Mines Ltd.	1936-37	Surface trenching	<p>Zone 10: 1.5' of .74 oz Au/ton 2.5' of .15 oz Au/ton</p> <p>An additional zone 100 feet to the south of Zone 10, 30 feet wide showing heavily oxidized carbonate and pyrite in schistose shear with parallel quartz stringers up to 12" wide were reported but no assay results were found.</p>

4.0 PRESENT WORK

Work completed during the past field season over each of the claim blocks is tabulated below:

	<u>Alkenore-Buffalo</u>	<u>Split Lake</u>
Number of Claims	26	4
Baseline	3.01 miles	.57 miles
Offsets	21.71 miles	2.69 miles
Linecutting	9.15 miles	1.51 miles
Geology and Topography	24.72 miles	3.23 miles
Magnetometer	24.72 miles	3.23 miles
Electromagnetics	24.72 miles	3.23 miles
Rock Sampling	78	6
Bulldozer Trenching	3 trenches	None
Blasting	4 areas	None

4.1 Grid Preparation

Prior to carrying out the surveys a control grid was established over each of the claim blocks. On the Alkenore-Buffalo property a baseline 16,400 feet (3.10 miles) in length oriented at 060° magnetic was established from a point just south of Post 4 Claim 485010 through Post 4 Claim 485126 to the southern point of a small inlet on Forty Mile Lake in Claim 485120. Offsets totalling 21.71 miles were placed at 400 foot intervals and normal to the baseline. Heavy bush necessitated the cutting of survey lines in the western portion of Alkenore-Buffalo.

On the Split Lake property the baseline was oriented at 45° through the center post which is common to all four claims. This baseline is 0.57 feet in length. Offsets at 400 foot intervals and perpendicular to the baseline total 2.69 miles.

4.2 Geology and Topography

The property is underlain by crystalline rocks of Precambrian age:

- (1) Andesitic lavas of the Keewatin formation are the oldest rocks in the area. The andesite contains layers of dacite, rhyolite, breccia and tuff. In most of the area it is sheared and altered. These shear or fracture zones contain carbonate, chlorite, pyrite and quartz veins. The regional shearing which is similar in attitude to the andesitic flows is in a general northeast direction dipping to the northwest. Local movement and fracturing in the

andesite were caused by thrust faulting and intrusion of the younger granites. The thrust faulting produced faults striking northeast and dipping southeast. The intrusion of the younger granitic stocks produced fractures parallel to their contacts.

- (2) The older intrusive rocks are generally granitic to granodioritic in composition containing quartz, orthoclase, oligoclase, biotite and ± hornblende. The rock is medium to coarse grained, grey to greyish-pink in colour and slightly foliated. After intrusion the granites were deformed along the same direction of regional shearing as the andesites. The granite has produced a contact metamorphic aureole in the surrounding andesites forming coarsely crystalline andesite into which abundant quartz and feldspar have been introduced. In the project area, the granitic contact trends northeast to east and dips 70° northwest.
- (3) The younger granitic stocks intrude all the above rock types. It ranges from a granite to a granodiorite to a syenite in composition. The Split Lake stock contains 60% orthoclase, 18% oligoclase, 15% quartz and 7% biotite. The rock is coarse grained and light greyish-pink in colour. A number of genetically related dikes are present through the area. Intrusion by these granites has produced movement along its contact which have formed fractures, shear zones and gneissic structures parallel to their contact with the andesite. These openings have been filled by quartz veining.

Generally speaking the topography of the properties may be described as gently rolling. Areas underlain by granitic types of rock tend to have slightly higher elevations than those underlain by greenstone. Where granite is the common rock, outcrops seem to be more plentiful. The greenstone formations weather more readily than the granite and in large part are covered by glacial drift, swamp and muskeg.

4.3 Gold Mineralization: Nature and Occurrence

Gold mineralization is found to occur with quartz veins in fracture and shear zones. Quartz veins have been uncovered on the surface ranging in width from 1 inch to 6 feet. These veins are often lenslike and have been intersected at depth with diamond drilling. The gold is often associated with pyrite with minor amounts of chalcopyrite, sphalerite and galena present. In areas, visible gold was noted.

There have been no reports of silver values, although galena is present in minor quantities.

Three types of shear zones are present containing gold-bearing quartz veins:

- (1) Regional NE-SW trending fractures and shear zones dipping to the northwest. Quartz veins in these zones strike 030° to 060° and dip 45° to 80° to the northwest.
- (2) Intrusion by the younger granitic stocks have caused cracks and fissures in the adjacent andesite. These fractures are parallel to the periphery of the contact.
- (3) Southeastward dipping fractures have been generated by thrust faulting from the southeast. Attitudes of these vein bearing fractures strike 030° to 090° and dip 50° to 70° southeast.

4.4 Magnetometer Survey

A total of 24.72 line miles of magnetometer survey was completed over the Alkenore-Buffalo claim block. 3.23 miles of magnetometer survey was completed over the Split Lake block. Both surveys were conducted using the McPhar GP70 magnetometer. After applying diurnal corrections the results were plotted and contoured.

4.5 Electromagnetic Survey

Two electromagnetic surveys were conducted utilizing a Crone VLF Radem unit. The Cutler, Maine transmitting station was used during the survey over Alkenore-Buffalo property and Seattle, Washington for the survey over Split Lake. Both dip angle and field strength readings were recorded and the results presented as field strength contour, dip angle profiles, Fraser filter contour and the Karous-Hjelt filter. Both electromagnetic surveys were carried out over the same survey lines used for the magnetic survey.

4.6 Rock Sampling

A total of 84 rock samples were gathered and assayed for Au and Ag. These rocks were collected mainly from areas of previous trenching. Results are plotted and appear on maps at rear.

4.7 Bulldozer Stripping and Trenching.

Late in the season several areas within the Alkenore-Buffalo claim block were outlined for bulldozer stripping and trenching, however, due to the swampy nature of many of the access routes, only three areas were stripped.

Certain areas within the Split Lake claim block also merited trenching, however, due to the unreliable nature of the access route to the property this was considered impractical and cost ineffective.

4.8 Blasting

Certain areas in which scheduled bulldozer trenching had to be cancelled were determined to be amenable to blasting. Blasting in each of these areas permitted the collection of fresh rock samples all of which were assayed for gold and silver.

5.0 RESULTS

5.1 Electromagnetics (VLF)

On the Alkenore-Buffalo property eleven electromagnetic anomalies have been identified. Each is discussed below and reference to the key map of geophysical anomalies appended at rear is suggested.

Anomaly 1W

This strong feature extends from 80W to 48W with a weaker zone at 56-52W. It coincides in part with a stream, as well as a vertical to northerly dipping structure on 72W coming to surface at 4S with a maximum at 200 feet depth below 3S. On 68W and 64W the structure has a southerly dip with maxima at 200 feet depth below 4S on 68W and 3S on 64W. The structure is most conductive on 72W but weakens to the east until 52W where two crossing structures, one dipping north and one dipping south are indicated at 3S and 1S. The maximum conductivity occurs at the zone of convergence at 200 feet depth. It appears that the anomaly is caused by a fracture zone which has dictated drainage. The effect of the stream is to increase the apparent conductivity on 72W. 52W would appear to have an interesting target below 2S in the zone of convergence.

Anomaly 2W

This linear feature also coincides in part with a stream, which on 48W produces a very strong, apparently near surface anomaly. A short diamond drill hole would probably show if a fracture zone is present. On 44W a weak southerly dipping conductor is indicated coming to surface between 8 and 9N. This can be correlated with a weaker south dipping structure on 40W at 5-6N, which is parallel to a minor near surface conductor which correlates with the stream. The anomaly finally dies out at 14W.

Anomaly 3W

This weak linear conductor extends across the southeastern margin of the survey area from 76W to the lake edge at 44W. On 56W a weak vertical conductor is indicated below 13S while on 52W two parallel structures are indicated, a deeper vertical conductor beneath 15S and a weak, near surface structure at 13S. On 48W two structures are again indicated, a weak steep structure beneath 17S and a shallow south dipping structure which comes to surface near 11S and has the inphase profile of a contact zone between higher conductivity material to the SE overlying more resistive material.

Anomaly 4W

A weak feature extends from 36W to 24W with a strong maximum on 28W at 4S. The evidence suggests that conductive near-surface cover has contributed to the strongest part of the anomaly, which has field strength values closely comparable

with those of anomalies 1W and 2W where the stream has affected the results. The linear portion of the anomaly possibly reflects a weak fracture.

Anomaly 5W

This feature follows a stream north from the lake side at 16W to 12W where it converges with a weak northeasterly conductor which extends from 14W to 0W. Both have little depth extent and only weak field strengths, so are considered of minor significance.

Anomaly 1E

This major structure extends across the area along the base line and has at least two NW offsets along strike (see conductor 2E). At its SW end on 4W, very steep northerly dips are indicated and on line 4E a depth of much less than 100 feet is indicated. On 8E the structure has an indicated steep dip to the south which may be due to interference from an adjacent northerly dipping feature at 2S. On line 12E the whole double structure is offset some 400 feet to the SE, suggesting a NW trending fracture. The anomaly is much stronger on 15E where steep southerly dips of about 75° are indicated; these dips persist, although steepening, to 64E with a major offset at 44E (conductor 2E). Beyond 64E the anomaly runs into the area of magnetic noise. On 60E, there is evidence of two parallel structures at 200 feet depth which dip to the north and which are cut off by a steep south dipping structure at 3N.

Anomaly 2E

This structure offsets anomaly 1E at 44E, 0-3N and coincides with a stream with a strong VLF anomaly. It probably represents a NW trending fracture.

Anomaly 3E

This linear feature extends from 12N on 12W at least to 6N on 8E and probably to 8N on 44E. Continuity across an unstaked area between 8E and 24E is inferred by position. The anomaly is strongest at 9N on 4W where it appears as a vertical structure extending to near surface. On 32E the anomaly has a vertical to slightly north dipping aspect and is considerably weaker.

Anomaly 4E

This anomaly diverges from anomaly 1E on line 16E, striking northeast to 40E. It is strongest on 24E at 7S where a shallow vertical structure has a deeper northerly dipping structure superimposed. On 28E a weaker vertical structure is seen.

Anomaly 5E

This zone extends across the southern margin of the survey area. It appears similar to the anomalies 1E and 3E, and probably represents a similar fracture zone.

Anomaly 6E

From 64E to 80E a wide zone of disturbance is seen. Its southern margin on 64E is 8N; on 68E the zone extends from 18N to 2N, on 72E from 14N to 2N, on 76E from 8N to 0, with a steep dipping structure to the north at 14N - also seen on 72E at 18N and on 80E from 8N to 2N, with a steep structure at 16N. This zone is interpreted as a steep sided intrusion of basic material in the shape of an elongated lens striking ENE. Its basic character is inferred from the coincident magnetic anomaly. Various zones within the body appear more conductive than others and may represent segregations of pyrrhotite or open fractures. On 76E the strongest conductor occurs beneath 8N at a depth of 200 feet; it dips to the S. On 72E the structure is seen below 10N at a similar depth, while on 68E it occurs at 12N.

Two prominent electromagnetic features have been outlined on the Split Lake Claim Block.

Anomaly 1

The more northerly feature, which is strongest on lines 400E and 800E is vertical, very near surface and a strong conductor. It is open on both ends. A short diamond drill hole would determine its significance.

Anomaly 2

The broad electromagnetic feature to the south appears to have a deeper cause and is subvertical. A diamond drill hole would reveal its sub-surface characteristics.

5 Magnetics

Six magnetic anomalies are indicated on the Alkenore-Buffalo property. A discussion follows:

Anomaly A

This is a discontinuous, linear anomaly stretching from 14S on 72W to 14S on 64W. A near vertical structure is indicated.

Anomaly B

Similar to Anomaly A. Stretches from 8S on 60W to 6S on 52W. The causes of the linear features displayed by both Anomaly A and B are considered to be dyke-like bodies within the metavolcanics.

Anomaly C

On 36W a poorly defined anomaly occurs around 7S. No strike extension is indicated from adjacent lines. The cause may be restricted vertical plug-like or "buried-sphere" type of body. However, magnetic storms were reported when the western area was surveyed and it is possible that the anomaly is spurious.

Anomaly D

Two parallel linear features occur between 32W and 16W. The southerly one extends from 1S on 32W to 3N on 16W and appears as a narrow linear body. Interpretation is problematic due to interference from the northern body which itself occurs too close to the ends of the traverses for accurate background definition. A quick-look interpretation indicates a depth of 60 feet for the western part of the anomaly and 100 feet at its eastern end. Dips of 70-80°N are indicated. The northern body appears deeper and flatter lying.

Anomaly E

A bifurcating anomaly occurs just south of the base line on lines 4W to 4E. The two arms of the anomaly which splits towards the east continue weakly to 20E. The anomaly may represent an echelon dykes within the metavolcanics, or fold structures within them.

Anomaly F

The northeastern part of the survey area from 56E to 84E and beyond is magnetically intensely disturbed. A vague correlation with the lensoid plug-like body outlined by the VLF is seen, together with a number of intense linear features.

The most prominent magnetic feature on Split Lake is a linear shaped anomaly stretching from L0 3N to L8W 10N. It is flanked by the two previously mentioned VLF anomalies. Its cause, as well as the causes for other less prominent anomalies, is considered to be linear bodies of volcanic origin.

5.3 Geochemical Rock Sampling

Rock samples were gathered from the following areas:

Alkenore-Buffalo	Zone 3	-	11	+	20	=	31
	Zone 9	-	12	+	5	=	17
	Zone 10	-	22	+	8	=	30

Split Lake Rock Dump - 12

A discussion of each area follows:

Alkenore-Buffalo

Zone 3

Sampling within Zone 3 was concentrated in the areas of previous trenching, and since it proved impossible to adequately clean out many of these trenches the sampling program was very limited. In spite of this, the samples collected do confirm the presence of gold mineralization in the area, with values ranging from Trace to .059 oz./ton. Previous work over this area indicates a zone of some 70,000 tons at .24 oz./ton Au. Depending on the nature of geological structural controls it is possible that this zone is open on all sides.

Zone 9

Extensive rock sampling of a trench in Zone 9 yielded values ranging from Trace to 1.08 oz./ton Au. A previous diamond drill hole in the area intersected a 10 foot zone averaging .48 oz./ton. This zone has been traced on surface for 1000 feet. An airphoto examination also confirms its existence.

Zone 10

Samples collected from this zone have confirmed the presence of gold up to .157 oz./ton. Previous sampling in the area returned values ranging from .04 oz./ton to .74 oz./ton.

Split Lake

Five grab samples were collected from the Split Lake rock dump. Assays ranged from Trace to .05 oz./ton gold. Trenches from previous operations were found to be filled with rubble. Resampling was impossible. Samples collected previously from these trenches assayed .02 oz./ton to 0.2 oz./ton. Sampling of the diamond drill core yielded similar results.

6.0 CONCLUSIONS

6.1 Electromagnetics (VLF)

The nature of mineralization in the area is such that the veins themselves do not provide geophysical targets. However, the structures which host the veins, namely elongate shears and fracture zones are suitable targets for detection by high frequency EM methods, of which VLF is the most convenient to use. Since the gold-bearing quartz veins may be hosted either by open shear zones which will appear highly conductive or by tighter fractures which will appear only weakly conductive, target priorities cannot readily be assigned. Therefore, an initial diamond drilling program should include both structural types and pending results, future drilling strategy if warranted could be determined.

6.2 Magnetics

Over a major part of the area, a number of discontinuous, normally magnetised linear structures have been outlined within a generally flat field. These usually correlate with areas of meta-volcanic outcrop and occasionally with weak VLF anomalies. Their strike length is usually less than 800 feet. The main causes of the linear features are considered to be dyke-like bodies within the metavolcanics. Their general lack of correlation with the linear VLF anomalies suggests that they are unrelated to structures favourable for mineralization so their significance is probably minor. Although these magnetic anomalies are considered secondary to the VLF anomalies, the more prominent ones could be drilled and pending results, the remainder could be drilled.

6.3 Geochemistry (Rock Sampling)

The rock geochemistry has confirmed the presence of gold mineralization, however, its extent has yet to be determined. Diamond drilling, with particular emphasis on Zones 3, 9 and 10 on the Alkenore-Buffalo property will provide some indication of tonnage.

7.0 RECOMMENDATIONS

As a consequence of the foregoing, the following diamond drill program, totalling 4,775 feet over 19 holes, is proposed:

<u>Anomaly</u>	<u>Type</u>	<u>Collar</u>	<u>Direction</u>	<u>Dip</u>	<u>Length (Feet)</u>
1W	VLF	72W 6S ✓	330°	-45°	400
2W	VLF	48W 6N ✓	330°	-45°	250
3W	VLF	56W 14S ✓	330°	-45°	150
1E	VLF	4E 1S ✓	330°	-45°	225
2E	VLF	16E 3S ✓	330°	-45°	225
3E	VLF	4W 7N ✓	330°	-45°	225
4E	VLF	24E 8S ✓	330°	-45°	225
5E	VLF	20E 18S ✓	330°	-45°	225
6E	VLF	72E 7N ✓	330°	-45°	225
F	Mag	76E 10N ✓	150°	-45°	225
D	Mag	32W BL ✓	150°	-45°	200
Zone 3	Gold Mineralization	57W 10S ✓	330°	-45°	250
Zone 3	Gold Mineralization	57W 11S ✓	330°	-45°	325
Zone 3	Gold Mineralization	55W 10S ✓	330°	-45°	250
Zone 3	Gold Mineralization	55W 11S ✓	330°	-60°	325
Zone 9	Gold Mineralization	67W 4+50W ✓	330°	-45°	300
Zone 9	Gold Mineralization	69W 4+50N ✓	330°	-45°	300
Zone 10	Gold Mineralization	75E 18N ✓	330°	-45°	325
Zone 10	Gold Mineralization	77E 18N ✓	330°	-45°	325
TOTAL					4,775

7.1 Cost Summary

Diamond Drilling:

Mobilization and Demobilization	\$ 3,000.00
Contract Drilling - 4,775 @ \$15.00	71,625.00
Core Boxes - 240 @ \$4.00	960.00
Sample Assaying - 200 @ \$12.00	2,400.00
Supervision, Reporting, Map Preparation - 4 mths @ \$4,000	16,000.00
Draughting - 80 hours @ \$10.00	800.00
Timberjack and Stumpage Fees	15,000.00
Sub-Total Forward	\$109,785.00

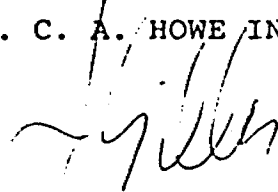
	Sub-Total Forward	\$109,785.00
Truck Rental - 2 months @ \$500.00		1,000.00
Snowmobile - 2 months @ \$500.00		1,000.00
Accommodation - 60 days @ \$25.00		1,500.00
Fuel		100.00
Telephone and Postage		350.00
Supplies		500.00
Temporary Crossing (CNR Track)		1,000.00
Air Fares - 2 Return @ \$300.00		600.00
		<u>\$115,835.00</u>
Contingencies @ 8%		9,266.00
	TOTAL	<u>\$125,101.00</u>

SAY: \$125,000.00

NOTE: All costs are based on the assumption of 7 days/week, 24 hours/day

Respectfully submitted,

A. C. A. HOWE INTERNATIONAL LIMITED,



D. J. Gillis, B.Sc.

DATED AT TORONTO, ONTARIO THIS 11th DAY OF DECEMBER, 1980.

REFERENCES

1. Dr. Dave Patrick, A. C. A. Howe International Ltd.,
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3. Interim Report on the Split Lake and Alkenore-Buffalo Mines Claim
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APPENDIX

Geochemical Soil Sampling and Results

In conjunction with the geophysical and geological surveys, a geochemical survey was undertaken over each claim group. All samples were analysed for gold, silver and lead. Results are presented on composite maps which may be found at rear of this report.

Results are very low for all three elements and may generally be described as discouraging. However, when one considers the nature of the soil (glacial tills and gravels) as well as the dispersive characteristics of the three elements, the results may be discounted as insignificant and not entirely representative of the underlying rock types over which they were collected.

X-RAY ASSAY LABORATORIES LIMITED

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CERTIFICATE OF ANALYSIS

TO: A.C.A. HOWE INTERNATIONAL LIMITED,
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REPORT 9265

REF. FILE 5663-BR

215 HUMUS RE: GOLDWIN SUBMITTED ON 5-NOV-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	NA	1.000
AG	PPM	AA	1.000
PB	PPM	AA	2.000

DATE 27-NOV-80

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY *J.H. Opdebeeck*

J.H. OPDEBEECK

PLE	AU PPB	AG PPA	PB PPM
1001 ✓	NH	<1	32
1002 ✓	1	<1	40
1003 ✓	1	<1	36
1004 ✓	2	<1	28
1005 ✓	1	<1	40
1006 ✓	<1	<1	44
1007 ✓	<1	<1	44
1008 ✓	1	<1	44
1009 ✓	1	<1	44
1010 ✓	NH	<1	28
1011 ✓	NH	<1	20
1012 ✓	NH	<1	24
1013 ✓	NH	<1	32
1014 ✓	NH	<1	28
1015 ✓	NH	<1	32
1016 ✓	2	<1	32
1017 ✓	NH	<1	32
1018 ✓	NH	<1	28
1019 ✓	NH	<1	24
1020 ✓	NH	<1	24
1021 ✓	NH	<1	24
1022 ✓	NH	<1	28
1023 ✓	NH	<1	40
1024 ✓	NH	<1	28
1025 ✓	NH	<1	28
1026 ✓	1	<1	32
1027 ✓	NH	<1	32
1028 ✓	<1	<1	28
1029 ✓	3	<1	28
1030 ✓	1	<1	32
1031 ✓	<1	<1	28
1032 ✓	NH	<1	24
1033 ✓	NH	<1	24
1034 ✓	NH	<1	24
1035 ✓	NH	<1	24
1036 ✓	NH	<1	20
1037 ✓	NH	<1	24
1038 ✓	1	<1	28
1039 ✓	2	<1	40
1040 ✓	1	<1	28
1041 ✓	1	<1	32
1042 ✓	<10	<1	32
1043 ✓	1	<1	36
1044 ✓	NH	<1	24
1045 ✓	NH	<1	28
1046 ✓	NH	<1	28
1047 ✓	NH	<1	24
1048 ✓	NH	<1	4
1049 ✓	NH	<1	4
1050 ✓	NH	<1	4
1051 ✓	NH	<1	20
1052 ✓	NH	<1	12
1053 ✓	NH	<1	4
1054 ✓	2	<1	12
1055 ✓	NH	<1	18

SAMPLE	AU PPB	AG PPM	PB PPM
1056✓	NH	<1	12
1057✓	NH	<1	8
1058✓	NH	<1	<2
1059✓	NH	<1	<2
1060✓	1	<1	24
1061✓	3	<1	4
1062✓	NH	<1	4
1063✓	NH	<1	<2
1064✓	NH	<1	<2
1065✓	NH	<1	8
1066✓	NH	<1	<2
1067✓	NH	<1	<2
1068✓	NH	<1	12
1069✓	NH	<1	8
1070✓	<10	<1	4
1071✓	NH	<1	8
1072✓	NH	<1	<2
1073✓	NH	<1	<2
1074✓	NH	<1	<2
1075✓	NH	<1	<2
1076✓	<1	1	40
1077✓	1	<1	32
1078✓	2	<1	28
1079✓	1	<1	32
1080✓	2	<1	32
1081✓	NH	<1	8
1082✓	NH	<1	4
1083✓	NH	<1	4
1084✓	NH	<1	4
1085✓	1	<1	44
1086✓	1	<1	48
1087✓	2	<1	36
1088✓	<1	<1	32
1089✓	<1	<1	28
1090✓	1	<1	40
1091✓	2	<1	44
1092✓	<1	<1	44
1093✓	4	<1	28
1094✓	3	<1	28
1095✓	2	<1	16
1096✓	<1	<1	16
1097✓	NH	<1	8
1098✓	NH	<1	12
1099✓	NH	<1	8
1100✓	NH	<1	24
1101✓	NH	<1	<2
1102✓	NH	<1	8
1103✓	NH	<1	4
1104✓	NH	<1	<2
1105✓	NH	<1	4
1106✓	NH	<1	8
1107✓	NH	<1	4
1108✓	NH	<1	8
1109✓	<1	<1	24
1110✓	<1	NSS	NSS-
1111✓	NH	<1	16

SAMPLE	AU PPB	AG PPM	PB PPM
1112	2	<1	36
1113	4	<1	36
1114	NH	<1	36
1115	NH	<1	44
1116	NH	<1	32
1117	3	<1	44
1118	NH	<1	28
1119	1	<1	32
1120	3	<1	32
1121	<10	<1	40
1122	3	<1	32
1123	NH	<1	16
1124	1	<1	24
1125	NH	<1	36
1126	NH	<1	28
1127	NH	<1	28
1128	<1	<1	40
1129	NH	<1	32
1130	NH	<1	36
1131	NH	<1	36
1132	<1	<1	60
1133	1	<1	32
1134	NH	<1	28
1135	NH	<1	8
1136	NH	<1	8
1137	NH	<1	4
1138	NH	<1	28
1139	NH	<1	20
1140	3	<1	28
1141	NH	<1	20
1142	NH	<1	32
1143	NH	<1	24
1144	NH	<1	24
1145	NH	<1	24
1146	NH	<1	24
1147	NH	<1	20
1148	NH	<1	20
1149	NH	<1	24
1150	NH	<1	24
1151	NH	<1	20
1152	NH	<1	20
1153	NH	<1	20
1154	NH	<1	28
1155	NH	<1	20
1156	NH	<1	24
1157	2	<1	44
1158	1	<1	40
1159	2	<1	24
1160	5	<1	32
1161	2	<1	40
1162	1	<1	72
1163	1	<1	44
1164	3	<1	44
1165	NH	<1	28
1166	2	<1	28
1167	2	<1	40

SAMPLE	AU PPB	AG PPM	PB PPM
1168	1	<1	28
1169	3	<1	60
1170	NH	<1	36
1171	<1	<1	32
1172	1	<1	44
1173	NH	<1	36
1174	3	<1	32
1175	NH	<1	28
1176	NH	<1	44
1177	NH	<1	32
1178	NH	<1	36
1179	1	<1	40
1180	<1	<1	48
1181	3	<1	44
1182	1	<1	40
1183	3	<1	60
1184	3	<1	32
9762	NH	<1	20
9763	NH	<1	24
9764	NH	<1	28
9765	NH	<1	28
9766	NH	<1	12
9767	NH	<1	8
9768	NH	<1	28
9769	NH	<1	12
9770	NH	<1	12
9771	1	<1	24
9772	2	<1	32
9773	1	<1	28
9774	<1	<1	28
9775	<1	<1	28
9776	<1	<1	32
9777	<1	<1	20
9778	3	<1	20
9779	<1	<1	36
9780	NH	<1	20
9781	NH	<1	12
9782	2	<1	28
9783	NH	<1	20
9784	NH	<1	32
9785	NH	<1	12
9786	NH	<1	12
9787	NH	<1	16
9788	NH	<1	16
9789	2	<1	16
9790	4	<1	20
9791	NH	<1	20
9792	NH	<1	24

NSS - NOT SUFFICIENT SAMPLE
 NH - NOT HUMUS

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: A.C.A. HOWE INTERNATIONAL LIMITED,
ATTN: C. R. MARTINDALE,
SUITE 826, 159 BAY ST.,
TORONTO, ONTARIO.
M5J 1J6

CUSTOMER NO. 2

DATE SUBMITTED 20-OCT-80

REPORT 10102

REF. FILE 5473-BR

441 SOIL REF:GOLDWIN

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	NA	1.000
AU	PPB	FA-NA	1.000
AG	PPM	AA	1.000
PB	PPM	AA	2.000

DATE 09-JAN-81

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

J.H. OPDEBEECK

SAMPLE	AU PPB	AU PPB	AG PPM	PB PPM
9472-H	<1	--	<1	20-
9473-S	--	1	<1	16
9474-H	3	--	<1	16
9475-H	<1	--	<1	4
9476-H	<1	--	<1	16
9477-H	<1	--	<1	24
9478-H	<1	--	<1	12
9479-H	<1	--	<1	32
9480-H	NH	--	<1	20
9481-H	<1	--	<1	28
9482-H	<1	--	<1	16
9483-S	--	1	<1	20
9484-H	3	--	<1	40
9485-H	<1	--	<1	12
9486-H	<1	--	<1	32
9487-H	2	--	<1	32
9488-H	<1	--	<1	48
9489-H	4	--	<1	12
9490-S	--	<1	<1	16
9491-H	<1	--	<1	16
9492-H	NH	--	<1	12
9493-H	<1	--	<1	32
9494-H	NH	--	<1	20
9495-S	--	<1	<1	12
9496-H	<1	--	<1	32
9497-H	<1	--	<1	36
9498-H	<1	--	<1	24
9499-H	1	--	<1	20
9500-H	<1	--	<1	20-
9554-H	3	--	<1	24-
9555-H	3	--	<1	12
9556-H	3	--	<1	24
9557-H	<1	--	<1	24
9558-H	<1	--	<1	28
9559-H	1	--	<1	36
9560-S	--	1	<1	8
9561-H	2	--	<1	28
9562-H	<1	--	<1	20
9563-H	<1	--	<1	20
9564-H	<1	--	<1	24
9565-H	<1	--	<1	28
9566-H	<1	--	NSS	NSS
9567-H	<1	--	NSS	NSS
9568-S	--	<1	<1	20
9569-H	3	--	<1	20-
9570-H	2	--	<1	24-
9571-H	<1	--	<1	20
9572-S	--	2	<1	12
9573-H	1	--	<1	16
9574-H	<1	--	<1	20
9575-H	3	--	<1	20
9576-H	<1	--	<1	16
9577-H	<1	--	<1	20
9578-H	1	--	<1	24
9579-H	<1	--	<1	52-

S	LE	AU PPB	AU PPB	AG PPM	PB PPM
9580	-n	NH	--	<1	28
9581	-H	<1	--	<1	32
9582	-H	<1	--	<1	40
9583	-H	<1	--	<1	28
9584	-H	<1	--	<1	28
9585	-H	3	--	<1	20
9586	-H	<1	--	<1	28
9587	-H	<1	--	<1	32
9588	-H	<1	--	<1	20
9589	-S	--	<1	<1	24
9590	-H	4	--	<1	32
9591	-H	<1	--	<1	16
9592	-H	<1	--	<1	16
9593	-H	2	--	<1	20
9594	-H	NH	--	<1	20
9595	-H	NH	--	<1	12
9596	-S	--	<1	<1	8
9597	-S	--	<1	<1	4
9598	-H	NH	--	<1	20
9599	-H	3	--	<1	36
9600	-H	<1	--	<1	20
9601	-H	2	--	<1	20
9602	-H	<1	--	<1	24
9603	-H	<1	--	<1	20
9604	-H	NH	--	<1	16
9605	-S	--	<1	<1	8
9606	-S	--	1	<1	4
9607	-H	4	--	<1	16
9608	-S	--	2	<1	12
9609	-H	NH	--	<1	8
9610	-S	--	43	<1	4
9611	-H	<1	--	<1	32
9612	-S	--	<1	<1	24
9613	-S	--	<1	<1	4
9614	-S	--	<1	<1	8
9615	-S	--	1	<1	12
9616	-S	--	<1	<1	8
9617	-S	--	<1	<1	8
9618	-H	2	--	<1	12
9619	-H	<1	--	<1	12
9620	-S	--	<1	<1	4
9621	-S	--	<1	<1	4
9622	-S	--	2	<1	4
9623	-S	--	<1	<1	4
9624	-S	--	<1	<1	4
9625	-H	<1	--	<1	8
9626	-S	--	2	<1	12
9627	-S	--	<1	<1	12
9628	-S	--	<1	<1	12
9629	-S	--	460	<1	4
9630	-S	--	5	<1	8
9631	-S	--	<1	<1	4
9632	-S	--	1	<1	4
9633	-S	--	<1	<1	12
9634	-S	--	<1	<1	4
9635	-S	--	<1	<1	4

SAMPLE	AU PPB	AU PPB	AG PPM	PB PPM
9636-H	NH	--	<1	8
9637-S	--	6	<1	4
9638-H	NH	--	<1	8
9639-S	--	<1	<1	4
9640-S	--	<1	<1	4
9641-S	--	<1	<1	4
9642-S	--	<1	<1	4
9643-S	--	<1	<1	4
9644-S	--	<1	<1	4
9645-H	NH	--	<1	16
9646-S	--	<1	<1	8
9647-S	--	<1	<1	4
9648-S	--	1	<1	4
9649-S	--	<1	<1	4
9650-H	NH	--	<1	4
9651-S	--	<1	<1	4
9652-S	--	1	<1	24
9653-S	--	1	<1	4
9654-S	--	1	<1	4
9655-S	--	2	<1	12
9656-S	--	<1	<1	<2
9657-H	2	--	<1	4
9658-S	--	4	<1	4
9659-S	--	<1	<1	4
9660-S	--	<1	<1	4
9661-S	--	2	<1	4
9662-S	--	<1	<1	4
9663-S	--	<1	<1	4
9664-S	--	<1	<1	4
9665-S	--	5	<1	68
9666-S	--	<1	<1	32
9667-S	--	<1	<1	20
9668-H	2	--	<1	16
9669-S	--	<1	<1	8
9670-S	--	<1	<1	12
9671-S	--	<1	<1	4
9672-S	--	<1	<1	8
9673-S	--	<1	<1	4
9674-S	--	<1	<1	12
9675-S	--	<1	<1	8
9676-S	--	3	<1	12
9677-S	--	3	<1	8
9678-S	--	<1	<1	24
9679-S	--	3	<1	16
9680-S	--	10	<1	16
9681-S	--	<1	<1	12
9682-S	--	<1	<1	36
9683-S	--	<1	<1	16
9684-S	--	1	<1	12
9685-S	--	<1	<1	8
9686-S	--	<1	<1	20
9687-S	--	<1	<1	12
9688-S	--	<1	<1	12
9689-S	--	<1	<1	12
9690-S	--	<1	<1	480
9691-H	<1	--	<1	28

SAMPLE	AU PPB	AU PPB	AG PPM	PB PPM
9692-H	NH	-	<1	20
9693-H	NH	--	<1	24
9694-H	2	--	<1	28
9695-H	3	--	<1	32
9696-H	NH	--	<1	20
9697-S	--	<1	<1	32
9698-H	NH	--	<1	20
9699-H	2	--	<1	28
9700-H	NH	--	<1	24
9701-H	<1	--	<1	20
9702-H	<1	--	<1	20
9703-H	<1	--	<1	12
9704-H	<1	--	<1	40
9705-H	<1	--	<1	12
9706-H	<1	--	<1	16
9707-H	2	--	<1	20
9708-S	--	<1	<1	8
9709-S	--	2	<1	8
9710-S	--	2	<1	8
9711-S	--	3	<1	24
9712-S	--	78	<1	8
9713-S	--	<1	<1	8
9714-H	4	--	<1	20
9715-H	<1	--	<1	12
9715-S	--	<1	NSS	NSS
9716-H	<1	--	<1	16
9717-H	4	--	<1	16
9719-S	--	<1	<1	12
9720-S	--	<1	<1	16
9721-S	--	2	<1	12
9722-S	--	2	<1	16
9723-S	--	<1	<1	8
9724-S	--	<1	<1	4
9725-S	--	4	<1	12
9726-S	--	4	<1	4
9727-S	--	1	<1	8
9728-S	--	<1	<1	8
9729-S	--	<1	<1	8
9730-S	--	<1	<1	12
9731-S	--	<1	<1	12
9732-S	--	<1	<1	8
9733-S	--	3	<1	28
9734-S	--	<1	<1	12
9735-S	--	<1	<1	24
9736-S	--	1	<1	16
9737-S	--	3	<1	12
9738-S	--	<1	<1	16
9739-S	--	<1	<1	8
9740-S	--	<1	<1	8
9741-S	--	<1	<1	4
9742-S	--	2	<1	4
9743-S	--	<1	<1	4
9744-H	2	--	<1	16
9745-H	4	--	<1	20
9745-H	<1	--	<1	20
9747	<1	--	<1	16

SAMPLE	AU PPB	AU PPB	AG PPM	PB PPM
9748-H	<1	--	<1	20
9749-S	--	3	<1	12
9750-S	--	<1	<1	16
9751-S	--	1	<1	8
9752-S	--	<1	<1	4
9753-S	--	<1	<1	8
9754-S	--	<1	<1	20
9755-S	--	<1	<1	8
9756-S	--	<1	<1	16
9757-H	<1	--	<1	16
9758-S	--	<1	<1	8
9759-H	<1	--	<1	12
9760-S	--	<1	<1	12
9761-S	--	<1	<1	12
9793-S	--	<1	<1	8
9794-S	--	1	<1	8
9795-S	--	<1	<1	8
9796-S	--	2	<1	4
9797-S	--	1	<1	8
9798-S	--	1	<1	4
9799-S	--	3	<1	4
9800-S	--	20	<1	4
9801-S	--	<1	<1	4
9802-S	--	<1	<1	8
9803-S	--	<1	<1	12
9804-S	--	<1	<1	8
9805-S	--	<1	<1	4
9806-S	--	<1	<1	16
9807-S	--	<1	<1	8
9808-S	--	<1	<1	12
9809-S	--	1	<1	24
9810-S	--	<1	<1	20
9811-S	--	<1	<1	32
9812-S	--	2	<1	20
9813-S	--	17	<1	12
9814-S	--	<1	<1	20
9815-S	--	2	<1	8
9816-S	--	2	<1	12
9817-S	--	<1	<1	12
9818-S	--	<1	<1	8
9819-S	--	<1	<1	8
9820-S	--	1	<1	8
9821-S	--	4	<1	8
9822-S	--	1	<1	8
9823-S	--	<1	<1	8
9824-S	--	<1	<1	8
9825-S	--	<1	<1	8
9826-S	--	18	<1	8
9827-S	--	<1	<1	12
9828-S	--	<1	<1	12
9829-S	--	<1	<1	12
9830-S	--	<1	<1	12
9831-S	--	<1	<1	24
9832-S	--	1	<1	12
9833-S	--	<1	<1	12
9834-S	--	1	<1	12

SAMPLE	AU PPB	AU PPB	AG PPM	PB PPM
9835-S	--	<1	<1	20
9836-S	--	6	<1	12
9837-S	--	<1	<1	8
9838-S	--	<1	<1	12
9839-S	--	2	<1	16
9840-S	--	<1	<1	8
9841-S	--	<1	<1	16
9842-H	<1	--	<1	12
9843-S	--	<1	<1	8
9844-H	<1	--	<1	8
9845-S	--	5	<1	12
9846-S	--	4	<1	12
9847-H	<1	--	<1	16
9848-H	NH	--	<1	8
9849-S	--	5	<1	12
9850-S	--	4	<1	12
9851-S	--	1	<1	12
9852-S	--	1	<1	4
9853-S	--	<1	<1	8
9854-S	--	<1	<1	8
9855-S	--	<1	<1	8
9856-H	NH	--	<1	12
9857-H	<1	--	<1	12
9858-H	<1	--	<1	12
9859-S	--	<1	<1	<2
9860-S	--	<1	<1	4
9861-S	--	8	<1	8
9862-S	--	250	<1	12
9863-S	--	14	<1	8
9864-S	--	<1	<1	8
9865-S	--	<1	<1	8
9866-S	--	<1	<1	8
9867-S	--	1	<1	8
9868-H	<1	--	<1	12
9869-H	<1	--	<1	12
9870-H	<1	--	<1	12
9871-S	--	<1	<1	8
9872-S	--	<1	<1	8
9873-H	<1	--	<1	8
9874-H	4	--	<1	16
9875-H	<1	--	<1	16
9876-H	2	--	<1	16
9877-S	--	<1	<1	12
9878-S	--	<1	<1	12
9879-S	--	<1	<1	8
9880-S	--	<1	<1	8
9881-S	--	2	<1	8
9882-S	--	2	<1	8
9883-S	--	<1	<1	8
9884-S	--	2	<1	8
9885-S	--	<1	<1	4
9886-S	--	<1	<1	4
9887-S	--	<1	<1	8
9888-S	--	<1	<1	4
9889-S	--	<1	<1	4
9890-S	--	<1	<1	4

SAMPLE	AU PPB	AU PPB	AG PPM	PB PPM
9891-S/	--	<1	<1	4
9892-H/	2	--	<1	12-
9893-H/	<1	--	<1	4
9894-H/	<1	--	<1	24
9895-H/	<1	--	<1	12
9896-H/	<1	--	<1	16
9897-H/	1	--	<1	24
9898-H/	3	--	<1	36
9899-H/	2	--	<1	24
9900-H/	<1	--	<1	16
9901-H/	3	--	<1	20
9902-H/	4	--	<1	16
9903-H/	2	--	<1	20-
9904-S/	--	<1	NSS	NSS
9905-H/	<1	--	<1	8-
9906-H/	<1	--	<1	24
9907-H/	2	--	<1	32
9908-H/	3	--	<1	40
9909-H/	<1	--	<1	20
9910-H/	1	--	<1	32
9911-H/	<1	--	<1	20
9912-H/	<1	--	<1	16
9913-H/	3	--	<1	16
9914-H/	<1	--	<1	20
9915-H/	2	--	<1	24-
9916-S/	--	12	<1	16
9917-S/	--	2	<1	8
9918-S/	--	2	<1	12-
9919-S/	--	<1	<1	8
9920-S/	--	2	<1	8
9921-S/	--	<1	<1	12
9922-S/	--	<1	<1	20
9923-S/	--	<1	<1	20
9924-S/	--	<1	<1	16
9925-S/	--	<1	<1	8
9926-S/	--	<1	<1	12
9927-S/	--	<1	<1	12
9928-S/	--	3	<1	12
9929-S/	--	2	<1	20
9930-S/	--	<1	<1	12-
9931-S/	--	4	<1	24
9932-S/	--	<1	<1	8
9933-S/	--	<1	<1	12
9934-S/	--	2	<1	16
9935-S/	--	<1	<1	20
9936-S/	--	<1	<1	16
9937-S/	--	<1	<1	16
9938-S/	--	<1	<1	16
9939-S/	--	<1	<1	12
9940-S/	--	<1	<1	20
9941-S/	--	2	<1	20
9942-S/	--	7	<1	24
9943-S/	--	<1	<1	84
9944-S/	--	<1	<1	16-
9945-S/	--	<1	<1	36
9946-S/	--	40	<1	60

SAMPLE	AU PPB	AU PPB	AG PPM	PB PPM
9947-S ✓	--	41	<1	8
9948-S ✓	--	<1	<1	4
9949-S ✓	--	2	<1	8
9950-S ✓	--	<1	<1	12
9951-S ✓	--	4	<1	20
9952-S ✓	--	15	<1	12
9953-S ✓	--	<1	<1	24
9954-S ✓	--	<1	<1	16
9955-S ✓	--	1	<1	16
9956-S ✓	--	<1	<1	4
9957-H ✓	<1	--	<1	8
9958-H ✓	2	--	<1	24
9959-H ✓	<1	--	<1	16
9960-H ✓	1	--	<1	12
9961-H ✓	1	--	<1	20
9962-H ✓	<1	--	<1	8
9963-S ✓	--	4	<1	8
9964-S ✓	--	4	<1	12
9965-S ✓	--	1	<1	12
9966-S ✓	--	3	<1	12
9967-S ✓	--	1	<1	16
9968-S ✓	--	<1	<1	4
9969-S ✓	--	<1	<1	8
9970-S ✓	--	<1	<1	12
9971-S ✓	--	<1	<1	8
9972-S ✓	--	4	<1	8
9973-S ✓	--	1	<1	8
9974-S ✓	--	1	<1	12
9975-S ✓	--	<1	<1	8
9976-H ✓	<1	--	<1	12
9977-H ✓	2	--	<1	28
9978-H ✓	<1	--	<1	20
9979-H ✓	<1	--	<1	20
9980-H ✓	<1	--	<1	16
9981-S ✓	--	<1	<1	8
9982-S ✓	--	<1	<1	4
9983-S ✓	--	<1	<1	4
9984-S ✓	--	<1	<1	4
9985-S ✓	--	2	<1	4
9986-S ✓	--	<1	<1	4
9987-H ✓	2	--	<1	8
9988-H ✓	<1	--	1	12
9989-H ✓	<1	--	<1	12
9990-H ✓	<1	--	<1	20
9991-H ✓	<1	--	<1	20
9992-H ✓	<1	--	<1	20
9993-H ✓	<1	--	<1	20
9994-H ✓	<1	--	<1	24
9995-S ✓	--	<1	<1	8
9996-S ✓	--	<1	<1	8
9997-S ✓	--	<1	<1	4
9999-S ✓	--	4	<1	4
10000-S ✓	--	6	<1	4

NSS - NOT SUFFICIENT SAMPLE
 NH - NOT HUMUS

X-RAY ASSAY LABORATORIES LIMITED

1823 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE: 416-445-5755

TELEX: 06-986947

CERTIFICATE OF ANALYSIS

TO: A.C.A. HOWE INTERNATIONAL LIMITED
ATTN: COLIN MARTINDALT,
SUITE 826, 159 BAY ST.
TORONTO, ONTARIO.
M5J 1J6

CUSTOMER NO. 2

DATE SUBMITTED: 15-OCT-80

REPORT 18027

REF. FILE 5422-BR

550 RUMUS(?)

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	NA	1.000
AG	PPM	AA	1.000
??	PPM	AA	2.000

DATE 06-JAN-81

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY.....
J.H.OPDEBEECK(??)

DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW

X-RAY ASSAY LABORATORIES LIMITED

1815 LESLIE STREET, DON MILLS, ONTARIO M3C 3J4

PHONE 416-443-8773

TELEX 06-996847

CERTIFICATE OF ANALYSIS

TO: A.C.A. HOME INTERNATIONAL LIMITED,
ATTN: COLIN MARTINDALE,
SUITE 205, 1815 BAY ST.,
TORONTO, ONTARIO,
M5S 1H5

CUSTOMER NO. 1

DATE SUBMITTED 18-NOV-80

REPORT NO. 10001

REF. FILE 0420-17

TEST QUANT

ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
1	PPM	AA	1.000
2	PPM	AA	1.000
3	PPM	AA	2.000

DATE 26-JAN-81

X-RAY ASSAY LABORATORIES, LIMITED

CERTIFIED BY *[Signature]*

J.H. SPIDERBECK

SAMPLE	AU PPB	AG PPM	PB PPM
1954	<1	<1	28
1955	4	<1	30
1956	<1	<1	12
1957	2	<1	12
1958	NH	<1	14
1959	1	<1	24
1960	<1	<1	28
1961	<1	<1	20
1962	<10	<1	18
1963	<1	<1	22
1964	<1	<1	18
1965	<1	<1	40
1966	<1	<1	46
1967	2	<1	26
1968	<1	<1	22
1969	1	<1	26
1970	1	<1	24
1971	<1	<1	30
1972	<1	<1	78
1973	1	<1	20
1974	<1	<1	20
1975	2	<1	26
1976	<1	<1	44
1977	2	<1	30
1978	<1	<1	16
1979	2	<1	30
1980	32	<1	28
1981	<1	<1	20
1982	NH	<1	14
1983	<1	<1	38
1984	2	<1	22
1985	2	<1	42
1986	<1	<1	26
1987	2	<1	28
1988	<1	<1	16
1989	<1	<1	10
1990	2	<1	22
1991	4	<1	24
1992	2	<1	30
1993	2	<1	18
1994	2	<1	34
1995	1	<1	32
1986	NH	<1	14
1997	1	<1	64
1998	<1	<1	24
1999	2	<1	46
9001	<1	<1	34
9002	<1	<1	120
9003	2	<1	120
9004	2	<1	80
9006	<1	<1	110
9007	2	<1	46
9008	<1	<1	60
9009	<1	<1	20
9010	NH	<1	14

SAMPLE	AU PPB	AG PPM	PB PPM
9011	NH	<1	16
9012	1	<1	28
9013	1	<1	24
9014	<1	<1	64
9015	1	<1	18
9016	<1	<1	42
9017	<1	<1	86
9018	1	<1	36
9019	<1	<1	78
9020	<1	<1	24
9021	<1	<1	24
9022	<1	<1	120
9023	1	<1	22
9024	1	<1	20
9025	1	<1	56
9026	<1	<1	20
9027	1	<1	54
9028	<1	<1	34
9029	2	<1	36
9030	2	<1	32
9031	1	<1	40
9032	<1	<1	24
9033	2	<1	26
9034	<1	<1	24
9035	<1	<1	96
9036	3	<1	58
9037	<1	<1	18
9038	NH	<1	18
9039	NH	<1	10
9040	<1	<1	28
9041	<1	<1	62
9042	NH	<1	12
9043	NH	<1	14
9044	<1	<1	10
9045	<1	<1	22
9046	<1	<1	22
9047	2	<1	12
9048	<1	<1	16
9049	<1	<1	16
9050	<1	<1	440
9051	<1	<1	120
9052	2	<1	160
9053	<1	<1	64
9054	<1	<1	68
9055	<1	<1	36
9056	2	<1	32
9057	2	<1	32
9058	<1	<1	22
9059	2	<1	26
9060	<1	<1	40
9061	<1	<1	12
9062	NH	<1	14
9063	NH	<1	8
9064	2	<1	34
9065	2	<1	26
9066	<1	<1	18

SAMPLE	AU PFB	AG PPM	PB PPM
9067	2	<1	16
9068	<1	<1	24
9068	2	<1	30
9070	2	<1	10
9071	<1	<1	24
9072	<1	<1	10
9073	2	<1	14
9074	<1	<1	8
9075	<1	<1	14
9076	NH	<1	4
9077	NH	<1	8
9078	<1	<1	30
9079	<1	<1	26
9080	<1	<1	22
9081	<1	<1	30
9082	1	<1	32
9083	<1	<1	38
9084	<1	<1	24
9085	5	<1	10
9086	12	<1	30
9087	55	<1	18
9088	NH	<1	10
9089	NH	<1	14
9090	NH	<1	10
9091	NH	<1	10
9092	NH	<1	6
9093	NH	<1	8
9094	<1	<1	30
9095	<1	<1	16
9096	NH	<1	8
9097	<1	<1	14
9098	NH	<1	8
9099	NH	<1	8
9100	<1	<1	34
9120	<1	<1	42
9121	2	<1	22
9122	<1	<1	40
9123	1	<1	28
9124	1	<1	36
9125	<1	<1	20
9126	<1	<1	28
9127	<1	<1	40
9128	<1	<1	46
9129	<1	<1	20
9130	<1	<1	16
9131	<1	<1	22
9132	<1	<1	10
9133	<1	<1	26
9134	<1	<1	30
9135	3	<1	18
9136	<1	<1	18
9137	<1	<1	14
9138	2	<1	16
9139	2	<1	14
9140	<1	<1	14
9141	2	<1	30

SAMPLE	AU PPM	AG PPM	PB PPM
9142	35	21	14
9143	4	<1	36
9144	<1	<1	32
9145	<1	<1	16
9146	<1	<1	12
9147	<1	<1	22
9148	1	<1	30
9149	<1	<1	20
9150	2	<1	42
9151	2	<1	34
9152	<1	<1	20
9153	<1	<1	23
9154	<1	<1	24
9155	2	<1	24
9156	<1	<1	40
9157	3	<1	16
9158	<1	<1	12
9159	<1	<1	24
9160	4	<1	24
9161	<1	<1	14
9162	<1	<1	33
9163	1	<1	36
9164	<1	<1	26
9165	1	<1	18
9166	<1	<1	26
9167	<1	<1	50
9168	NH	<1	16
9169	1	<1	36
9170	1	<1	40
9171	3	<1	40
9172	<1	<1	46
9173	1	<1	28
9174	<1	<1	22
9175	1	<1	30
9176	1	<1	38
9177	1	<1	38
9178	1	<1	36
9179	5	<1	38
9180	<1	<1	34
9181	3	<1	36
9182	3	<1	22
9183	2	<1	20
9184	4	<1	12
9185	5	<1	14
9186	NH	<1	20
9187	NH	<1	14
9188	NH	<1	20
9189	2	<1	34
9190	<1	<1	26
9191	2	<1	30
9192	2	<1	42
9193	3	<1	22
9194	NH	<1	22
9195	2	<1	26
9196	NH	<1	28
9197	1	<1	54

SAMPLE	AU PPB	AG PPM	PB PPM
9198 /	4	<1	40
9199 /	3	<1	54
9200 ✓	NH	<1	34
9201 ✓	<1	<1	32
9202 ✓	<1	<1	28
9203 ✓	3	NSS	NSS
9204 ✓	<1	<1	36
9205 ✓	3	<1	28
9206 ✓	1	<1	22
9207 ✓	6	<1	30
9208 ✓	NH	<1	22
9209 ✓	6	<1	48
9210 ✓	NH	<1	12
9211 ✓	NH	<1	10
9212 ✓	NH	<1	8
9213 ✓	NH	<1	8
9214 ✓	NH	<1	6
9215 ✓	NH	<1	8
9216 ✓	3	<1	10
9217 ✓	<1	<1	12
9218 ✓	140	<1	18
9219 ✓	NH	<1	12
9220 ✓	NH	<1	14
9221 ✓	1	<1	12
9222 ✓	NH	<1	10
9223 ✓	3	<1	24
9224 ✓	4	<1	24
9225 ✓	3	<1	34
9226 ✓	3	<1	38
9227 ✓	4	<1	22
9228 ✓	3	<1	26
9229 ✓	1	<1	34
9230 ✓	<1	<1	24
9231 ✓	<1	<1	30
9232 ✓	<1	<1	20
9233 ✓	2	<1	28
9234 ✓	1	<1	26
9235 ✓	<1	<1	20
9236 ✓	<1	<1	34
9237 ✓	<1	<1	34
9238 ✓	1	<1	20
9239 ✓	<1	<1	26
9240 ✓	<1	<1	20
9241 ✓	2	<1	16
9242 ✓	<1	<1	42
9243 ✓	NH	<1	12
9244 ✓	1	<1	12
9245 ✓	2	<1	12
9246 ✓	<1	<1	34
9247 ✓	<1	<1	18
9248 ✓	<1	<1	12
9249 ✓	<1	<1	14
9250 ✓	<1	<1	16
9251 ✓	<1	<1	22
9252 ✓	2	<1	24
9253 ✓	<1	<1	38

SAMPLE	AU PPB	AG PPM	PB PPM
9254	<1	<1	32
9255	2	<1	22
9256	98	<1	22
9257	2	<1	36
9258	<1	<1	20
9259	<1	<1	24
9260	<1	<1	26
9261	2	<1	20
9262	<1	<1	38
9263	<1	<1	30
9264	<1	<1	10
9265	<1	<1	4
9266	<1	<1	50
9267	<1	<1	70
9268	<1	<1	22
9269	<1	<1	14
9270	<1	<1	18
9271	<1	<1	16
9272	1	<1	34
9273	<1	<1	38
9274	<1	<1	18
9275	2	<1	14
9276	<1	<1	18
9277	<1	<1	22
9278	<1	<1	18
9279	2	<1	26
9280	<1	<1	33
9281	1	<1	12
9282	<1	<1	36
9283	4	<1	20
9284	<1	<1	44
9285	<1	<1	22
9286	2	<1	20
9287	1	<1	20
9288	<1	<1	28
9289	<1	<1	110
9290	<1	<1	24
9291	<1	<1	20
9292	<1	<1	26
9293	<1	<1	22
9294	<1	<1	28
9295	<1	<1	16
9296	NH	<1	14
9297	<1	<1	26
9298	<1	<1	32
9299	<1	<1	8
9300	<1	<1	8
9301	<1	<1	30
9302	<1	<1	32
9303	<1	<1	26
9304	NH	<1	12
9305	<1	<1	12
9306	<1	<1	50
9307	NH	<1	10
9308	NH	<1	3
9309	NH	<1	10

SAMPLE	AU PPB	AG PPM	PB PPM
9310	NH	<1	14
9311	NH	<1	16
9312	NH	<1	10
9313	NH	<1	8
9314	NH	<1	16
9315	NH	<1	14
9316	NH	<1	10
9317	<1	<1	14
9318	<1	<1	14
9319	<1	<1	12
9320	4	<1	10
9321	<1	<1	20
9322	1	<1	28
9323	<1	<1	16
9324	<1	<1	20
9325	2	<1	24
9326	1	<1	38
9327	NH	<1	12
9328	<1	<1	30
9329	<1	<1	16
9330	<1	<1	16
9331	2	<1	22
9332	<1	<1	10
9333	1	<1	26
9334	5	<1	46
9335	NH	<1	6
9336	NH	<1	10
9337	NH	<1	12
9338	2	<1	16
9339	NH	<1	10
9340	3	<1	14
9341	<1	<1	16
9342	3	<1	18
9343	NH	<1	<2
9344	NH	<1	8
9345	1	<1	16
9346	NH	<1	6
9347	NH	<1	8
9348	4	<1	52
9349	<1	<1	40
9350	<10	<1	40
9351	<1	<1	46
9352	<1	<1	24
9353	2	<1	50
9354	NH	<1	38
9355	3	<1	20
9356	<1	<1	22
9357	NH	<1	16
9358	2	<1	38
9359	3	<1	30
9360	1	<1	36
9361	<1	<1	26
9362	<1	<1	34
9363	<1	<1	36
9364	NH	<1	10
9365	<1	<1	20

SAMPLE	AU PPB	AG PPM	PB PPM
9366	<1	<1	16-
9367	<1	<1	28
9368	<1	<1	34
9369	5	<1	16
9370	<1	<1	28
9371	3	<1	20
9372	<1	<1	20
9373	<1	<1	28
9374	NH	<1	10
9375	NH	<1	12
9376	NH	<1	10
9377	NH	<1	10
9378	NH	<1	14
9379	NH	<1	12
9380	NH	<1	10
9381	2	<1	16
9382	<1	<1	30
9383	<1	<1	10
9384	<1	<1	26
9385	1	<1	12
9386	NH	<1	12
9387	NH	<1	14
9388	1	<1	20
9389	NH	<1	18
9390	NH	<1	10
9391	<1	<1	24
9392	<1	<1	24
9393	NH	<1	16
9394	3	<1	22-
9395	<10	<1	22
9396	NH	<1	20
9397	NH	<1	16
9398	NH	<1	22
9399	<1	<1	26
9400	NH	<1	16-
9401	NH	<1	10
9402	NH	<1	24
9403	NH	<1	6
9404	NH	<1	16
9405	<1	<1	26-
9406	NH	<1	32
9407	NH	<1	22
9408	<1	<1	16
9409	NH	<1	24
9410	NH	<1	24
9411	NH	<1	20
9412	<10	<1	34
9413	NH	<1	16
9414	5	<1	32
9415	NH	<1	10
9416	NH	<1	16
9417	NH	<1	16
9418	NH	<1	18
9419	NH	<1	12
9420	NH	<1	14
9421	NH	<1	12-

SAMPLE	AU PPB	AG PPM	PB PPM
9422 ✓	3	<1	28
9423 ✓	NH	<1	10
9424 ✓	NH	<1	20
9425 ✓	NH	<1	14
9426 ✓	<1	<1	44
9427 ✓	<1	<1	80
9428 ✓	<1	NSS	NSS
9429 ✓	2	<1	44
9430 ✓	2	<1	32
9431 ✓	NH	<1	24
9432 ✓	<1	<1	32
9433 ✓	1	<1	24
9434 ✓	1	<1	38
9435 ✓	NH	<1	20
9436 ✓	<1	<1	54
9437 ✓	<1	<1	66
9438 ✓	2	<1	38
9439 ✓	<1	<1	36
9440 ✓	3	<1	36
9441 ✓	<1	<1	48
9442 ✓	<1	<1	54
9443 ✓	<1	<1	44
9444 ✓	1	<1	38
9445 ✓	<1	<1	44
9446 ✓	<1	<1	46
9447 ✓	<1	<1	34
9448 ✓	4	<1	22
9449 ✓	2	<1	22
9450 ✓	2	<1	24
9451 ✓	<1	<1	24
9452 ✓	NH	<1	16
9453 ✓	<1	<1	26
9454 ✓	NH	<1	12
9455 ✓	NH	<1	18
9456 ✓	2	<1	24
9457 ✓	1	<1	12
9458 ✓	<1	<1	22
9459 ✓	<1	<1	38
9460 ✓	1	<1	12
9461 ✓	2	<1	24
9462 ✓	<1	<1	24
9463 ✓	<1	<1	22
9464 ✓	<1	<1	24
9465 ✓	1	<1	40
9466 ✓	<1	<1	44
9467 ✓	NH	<1	32
9468 ✓	<10	<1	8
9469 ✓	1	NSS	NSS
9470 ✓	<1	<1	20
9471 ✓	<1	<1	20
9501 ✓	<1	<1	16
9502 ✓	NH	<1	10
9503 ✓	2	<1	26
9504 ✓	<1	<1	32
9505 ✓	1	<1	20
9506 ✓	<1	<1	20

SAMPLE

SAMPLE	AU PPB	AG PPM	PB PPM
9507	2	<1	16
9508	<1	<1	22
9509	<1	<1	14
9510	<1	<1	20
9511	<1	<1	24
9512	<1	<1	12
9513	NH	<1	10
9514	NH	<1	10
9515	NH	<1	10
9516	NH	<1	16
9517	NH	<1	8
9518	NH	<1	12
9519	NH	<1	10
9520	NH	<1	14
9521	2	<1	52
9522	NH	<1	22
9523	NH	<1	18
9524	NH	<1	24
9525	NH	<1	22
9526	NH	<1	12
9527	NH	<1	26
9528	NH	<1	26
9529	<1	<1	26
9530	1	<1	52
9531	<1	<1	38
9532	<1	<1	36
9533	<1	<1	22
9534	NH	<1	20
9535	NH	<1	32
9536	NH	<1	28
9537	<1	<1	18
9538	NH	<1	12
9539	NH	<1	8
9540	NH	<1	6
9541	NH	<1	20
9542	NH	<1	16
9543	NH	<1	14
9544	NH	<1	20
9545	<1	<1	30
9546	<1	<1	38
9547	1	<1	46
9548	2	<1	44
9549	<1	<1	26
9550	<1	<1	38
9551	<1	<1	14
9552	<1	<1	14
9553	NH	<1	14

NSS - NOT SUFFICIENT SAMPLE

NH - NOT HUMUS

X-RAY ASSAY LABORATORIES LIMITED
1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4
PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: A.C.A. HOWE INTERNATIONAL LIMITED,
ATTN: COLIN MARTINDALE,
SUITE 325, 159 BAY ST.,
TORONTO, ONTARIO.
MSJ 1J6

REPORT 9370

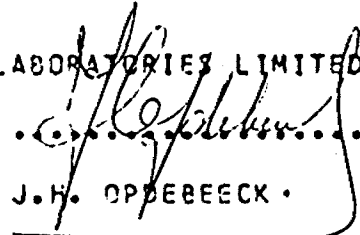
REF. FILE 5361-99

133 HUMUS PO#GOLDWIN SUBMITTED ON 9-OCT-90

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	NA	1.000
AG	PPM	AA	1.000
CB	PPM	AA	2.000

DATE 09-DEC-90

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 
J.H. OPDEBEECK

SAMPLE	AU PPB	AG PPM	PB PPM
1834✓	<1	<1	32
1835✓	3	<1	48
1836✓	1	<1	28
1837✓	<1	<1	32
1838✓	<1	<1	20
1839✓	<1	<1	24
1840✓	<1	<1	20
1841✓	3	<1	24
1842✓	<1	<1	44
1843✓	<1	<1	28
1844✓	<1	<1	32
1845✓	<1	<1	48
1846✓	<1	<1	28
1847✓	3	<1	24
1848✓	<1	<1	28
1849✓	NH	<1	16
1850✓	NH	<1	24
1851✓	1	<1	20
1852✓	<1	<1	24
1853✓	<1	<1	40
1854✓	3	<1	32
1855✓	<1	<1	24
1856✓	<1	<1	24
1857✓	<1	<1	24
1858✓	1	<1	12
1859✓	<1	<1	20
1860✓	<1	<1	40
1861✓	2	<1	20
1862✓	<1	<1	28
1863✓	<1	<1	32
1864✓	<1	<1	28
1865✓	<1	<1	24
1866✓	<10	<1	20
1867✓	<1	<1	20
1868✓	<1	<1	24
1869✓	<1	1	44
1870✓	<10	<1	16
1871✓	<1	<1	44
1872✓	2	<1	40
1873✓	<1	<1	24
1874✓	<1	<1	24
1875✓	<1	<1	32
1876✓	<1	<1	24
1877✓	<1	<1	24
1878✓	2	<1	44
1879✓	<1	<1	32
1880✓	1	<1	32
1881✓	<1	<1	28
1882✓	<1	<1	8
1883✓	10	<1	20
1884✓	<1	<1	44
1885✓	1	<1	32
1886✓	<1	<1	40
1887✓	<1	<1	36
1888✓	<1	<1	16

SAMPLE	AU PPS	AG PPM	PB PPM
1887✓	NH	<1	12
1890✓	<1	<1	44
1891✓	<1	<1	28
1892✓	1	<1	40
1893✓	NH	<1	16
1894✓	NH	<1	12
1895✓	2	<1	20
1896✓	<1	<1	44
1897✓	<1	<1	44
1898✓	<1	<1	32
1899✓	<1	<1	28
1900✓	<1	<1	20
1901✓	<1	<1	20
1902✓	1	<1	28
1903✓	<1	<1	24
1904✓	<1	<1	20
1905✓	<1	<1	24
1906✓	1	<1	48
1907✓	2	<1	40
1908✓	<1	<1	52
1909✓	2	<1	36
1910✓	NH	1	28
1911✓	2	<1	36
1912✓	5	<1	20
1913✓	1	<1	20
1914✓	<1	<1	20
1915✓	1	<1	28
1916✓	<1	<1	40
1917✓	NH	<1	28
1918✓	<1	<1	36
1919✓	<1	<1	28
1920✓	2	<1	16
1921✓	<1	<1	28
1922✓	<1	<1	20
1923✓	<1	<1	20
1924✓	<1	<1	32
1925✓	<1	<1	40
1926✓	<1	<1	48
1927✓	1	1	32
1928✓	<1	<1	20
1929✓	2	<1	24
1930✓	<1	<1	28
1931✓	<1	<1	24
1932✓	<1	<1	20
1933✓	<1	<1	20
1934✓	<1	<1	20
1935✓	2	<1	24
1936✓	<1	<1	28
1937✓	<1	<1	44
1938✓	2	<1	48
1939✓	<1	<1	20
1940✓	<1	<1	24
1941✓	3	<1	24
1942✓	<1	<1	12
1943✓	<1	<1	12
1944✓	1	1	16

SAMPLE	AU PPB	AG PPM	PB PPM
1945	2	<1	24
1946	1	<1	12
1947	2	<1	20
1948	1	<1	28
1949	1	<1	28
1950	SMP MISS	SMP MISS	SMP MISS
1951	NH	<1	16
1952	SMP MISS	SMP MISS	SMP MISS
1953	<1	<1	12
9101	NH	<1	12
9102	NH	<1	20
9103	<10	<1	24
9104	<10	<1	16
9105	4	<1	28
9106	1	<1	16
9107	3	<1	40
9108	3	<1	32
9109	4	<1	24
9110	NH	<1	20
9111	1	<1	28
9112	2	<1	20
9113	1	<1	28
9114	<1	<1	16
9115	2	<1	28
9117	1	<1	28
9118	<1	<1	32
9119	<1	<1	24

NH - NOT HUMUS



52J04SE0015 52J04SE0019 ZARN LAKE



ural Resources

File _____

900

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

RECEIVED

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

MAR 19 1981

MINING LANDS SECTION

Type of Survey(s) VLF; Mag; Geological; Geochemical;
Mechanical Stripping
Township or Area Zarn Lake (Forty Mile Lake)
Claim Holder(s) Stafford K. Kelley

Survey Company A. C. A. Howe International Ltd.
Author of Report D. J. Gillis
Address of Author 159 Bay St., Ste. 826, Toronto, Ont.
Covering Dates of Survey June 1980-November 1980
(linecutting to office)
Total Miles of Line Cut Grid - 19.01 miles - Only 7.04
miles necessitated line cutting

MINING CLAIMS TRAVERSED
List numerically

PA	485118
PA	485119
(prefix)	(number)
PA	485120
PA	485121
PA	485122
PA	485123
PA	485124
PA	485125
PA	485126
PA	485127
PA	485128
PA	485129
PA	485130
PA	485131
PA	485132
PA	485133
PA	485134
PA	485135
PA	485138
PA	485139

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	40
ENTER 20 days for each additional survey using same grid.	20
Geophysical	
-Electromagnetic	40
-Magnetometer	20
-Radiometric	
Mechanical Stripping	28
Geological	20
Geochemical	20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: March 19/81 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 19

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 38 882 Number of Readings 882

Station interval 100 feet Line spacing 400 feet

Profile scale _____

Contour interval VLF (Field Strength) - 10%; VLF (Fraser Filter) - 5 units;
Mag - 100 gammas

MAGNETIC

Instrument McPhar GP-70

Accuracy - Scale constant 1 gamma

Diurnal correction method Mathematical

Base Station check-in interval (hours) 1 1/2 - 2 hours

Base Station location and value Line 0 Station 0 Reading 60378 gammas

ELECTROMAGNETIC

Instrument Crone Radem

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency Cutler, Maine
(specify V.L.F. station)

Parameters measured Field Strength, Dip Angle

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

- Off time _____ Range _____

- Delay time _____

- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken PA 485119 - PA 485135 inclusive; plus
PA 485138 and PA 485139

Total Number of Samples 882

Type of Sample Soil Humus
(Nature of Material)

Average Sample Weight 1/4 lb.

Method of Collection grub hoe

Soil Horizon Sampled Humus A Horizon

Horizon Development Fair

Sample Depth Surface - 1 foot

Terrain Gently rolling

Drainage Development Fair

Estimated Range of Overburden Thickness 0 - 15'

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis 800 mesh

General _____

ANALYTICAL METHODS

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

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

Others Au

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 X-Ray Assay Laboratory

Extraction Method _____

Analytical Method see below

Reagents Used _____

General Au - Neutron activation

Ag - Atomic Absorption

Pb - Atomic Absorption

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 264 Number of Readings 264

Station interval 100 feet Line spacing 400 feet

Profile scale

Contour interval VLF(Field Strength) - 10%; VLF(Fraser Filter) - 5 Units; Mag - 100 gammas

MAGNETIC

Instrument McPhar GP 70

Accuracy - Scale constant 1 gamma

Diurnal correction method Mathematical

Base Station check-in interval (hours) 1 1/2 - 2 hours

Base Station location and value Line 0 Station 0 Reading 60378 gammas

ELECTROMAGNETIC

Instrument Crone Radem

Coil configuration

Coil separation

Accuracy

Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line

Frequency Cutler, Main (specify V.L.F. station)

Parameters measured Field Strength, Dip Angle

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method [] Time Domain [] Frequency Domain

Parameters - On time Frequency

- Off time Range

- Delay time

- Integration time

Power

Electrode array

Electrode spacing

Type of electrode

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken PA 485--0 - PA 485114 Inclusive

Total Number of Samples 264

Type of Sample Soil Humus
(Nature of Material)

Average Sample Weight 1/4 lb.

Method of Collection grub hoe

Soil Horizon Sampled Humus A Horison

Horizon Development Fair

Sample Depth Surface - 12"

Terrain Gentle rolling

Drainage Development Fair

Estimated Range of Overburden Thickness 0-15'

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing,)

Mesh size of fraction used for analysis 800 mesh

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 X-Ray Assay Laboratory

Extraction Method _____

Analytical Method see below

Reagents Used _____

General Au - Neutron Activation

Ag - Atomic Absorption

Ph - Atomic Absorption



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

RECEIVED

Mar 19 1981

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

MINING LANDS SECTION

Type of Survey(s) VLF; Mag; Geological; Geochemical

Township or Area Zarn Lake (Split Lake)

Claim Holder(s) Stafford K. KXley

Survey Company A. C. A. Howe International Ltd.

Author of Report D. J. Gillis

Address of Author 159 Bay St., Ste. 826, Toronto, Ont.

Covering Dates of Survey June 1980 - November 1980
(linecutting to office)

Total Miles of Line Cut Grid - 2.65 line miles--Only
1.50 miles necessitated line cutting

MINING CLAIMS TRAVERSED
List numerically

PA	485114
(prefix)	(number)
PA	485115
PA	485116
PA	485117

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes
line cutting) for first
survey.
ENTER 20 days for each
additional survey using
same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	40
-Magnetometer	20
-Radiometric	-
-Other	-
Geological	20
Geochemical	20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: March 19/81 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 112 Number of Readings 112

Station interval 100 feet Line spacing 400 feet

Profile scale 20:1

Contour interval VLF(Field Strength) - 10%; VLF(Fraser Filter) - 5 units; Mag - 100 gammas

MAGNETIC

Instrument McPhar GP-70

Accuracy - Scale constant 1 gamma

Diurnal correction method Mathematical

Base Station check-in interval (hours) 1 1/2 - 2 hours

Base Station location and value Line 0 Station 0 Reading 60321 gammas

ELECTROMAGNETIC

Instrument Crone Radem

Coil configuration

Coil separation

Accuracy

Method: [x] Fixed transmitter [] Shoot back [] In line [] Parallel line

Frequency Seattle, Washington (specify V.L.F. station)

Parameters measured Field Strength, Dip Angle

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

Instrument

Method [] Time Domain [] Frequency Domain

Parameters - On time Frequency

- Off time Range

- Delay time

- Integration time

Power

Electrode array

Electrode spacing

Type of electrode

INDUCED POLARIZATION RESISTIVITY

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken PA 485114 - PA 485117 inclusive

Total Number of Samples 112

Type of Sample Soil Humus
(Nature of Material)

Average Sample Weight 1/4 lb.

Method of Collection grub hoe

Soil Horizon Sampled Humus - A Horizon

Horizon Development Fair

Sample Depth Surface - 1 foot

Terrain Gently rolling

Drainage Development Fair

Estimated Range of Overburden Thickness 0 - 15'

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis 800 mesh

General _____

ANALYTICAL METHODS

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

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

Others Au

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 X-Ray Assay Laboratory

Extraction Method _____

Analytical Method _____

Reagents Used _____

General - Au - Neutron Activation

Ag - Atomic Absorption

Pb - Atomic Absorption



Ministry of
Natural
Resources

**Technical Assessment
Work Credits**

File
2.3786

Recorded Holder
STAFFORD K. KELLEY

Township or Area
ZARN LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>40</u> days Magnetometer <u>20</u> days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological <u>20</u> days Geochemical <u>20</u> days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" 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.	PA 485114 to 18 incl. 485120 to 26 incl. 485128 to 34 incl. 485138 <i>Revised Dec 24th</i>

Special credits under section 86 (15a) for the following mining claims

15 days
PA 485119
485127
485135
485139

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 86(18)-60:



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MINING LANDS SECTION

Ministry of Natural Resources

Notification of recording of assessment work credits

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: January 26, 1981

Recorded holder: Stafford K. Kelley

Address: 134 Dornie Road, Oakville, Ontario

Township or Area: Zarn Lake M-2222

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining claims. Includes rows for Geophysical (Electromagnetic, Magnetometer, Radiometric, Induced polarization), Section 86 (18), Geological, and Geochemical (20 days). Includes checkboxes for Man days, Airborne, Special provision, and Ground.

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Handwritten signature of D. Hanson

Mining recorder

c.c. Stafford K. Kelley
Daniel Joseph Gillis

81-16

Mar 17/81



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MINING LANDS SECTION

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: January 26, 1981

Recorded holder: Stafford K. Kelley

Address: 134 Dornie Road, Oakville, Ontario

Township or Area: Zarn Lake M-2222

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	Pa. 485118-135 inclusive 485138; 485139
Electromagnetic <u>40</u> days	
Magnetometer <u>20</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological <u>20</u> days	
Geochemical <u>20</u> days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

A. Hanson

Mining recorder

c.c. Stafford K. Kelley
Daniel Joseph Gillis

81-8; 81-9; 81-10; 81-11

mar 17/81



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FEB - 9 1981

Ministry of Natural Resources

Notification of recording of assessment work credits

MINING LANDS SECTION

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: January 26, 1981

Recorded holder: Robert Rosenblat

Address: Suite 1520, 4 King Street West, Toronto, Ontario

Township or Area: Zarn Lake M-2222

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining claims. Includes rows for Geophysical (Electromagnetic, Magnetometer, Radiometric, Induced polarization, Section 86 (18)), Geological, and Geochemical. Includes checkboxes for Man days, Airborne, Special provision, and Ground.

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Handwritten signature and title: Mining recorder

c.c. Robert Rosenblat
Daniel Joseph Gillis

Handwritten date: Mar 17/81



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JAN 27 1981

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

MINING LANDS SECTION

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: January 19, 1981

Recorded holder: Mr. Stafford K. Kelley

Address: 134 Dornie Road, Oakville, Ontario

Township or Area: Zarn Lake M-2222

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	Pa. 485114-117 inclusive
Electromagnetic <u>40</u> days	
Magnetometer <u>20</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological <u>20</u> days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input checked="" type="checkbox"/>

Notice to recorded holder:

Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Lands Administration Branch with this letter.


Mining recorder

c.c. Mr. Stafford K. Kelley
Mr. Daniel Joseph Gillis

81-5; 81-6; 81-7

memo/81

Recorded Holder
ROBERT ROSENBLAT

Township or Area
ZAIN LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>40</u> days Magnetometer <u>20</u> days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological <u>20</u> days Geochemical <u>20</u> days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" 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.	PA 485009 to 12 inclusive

Special credits under section 86 (15a) for the following mining claims

PA 48013 30 days EM 15 days Mag. 15 days Geol. 15 days Geoch.	PA 485014 15 DAYS EM 5 days Mag. 5 days Geol. 5 days Geoch.
---	---

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 86(18)-60:

REVISED

Recorded Holder STAFFORD K. KELLEY
Township or Area ZAIN LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>40</u> days Magnetometer <u>20</u> days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological <u>20</u> days Geochemical <u>20</u> days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" 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.	PA 485114 to 18 inclusive 485120 to 26 inclusive 485128 to 34 inclusive 485138

Special credits under section 86 (15a) for the following mining claims

PA 485119	30 days EM
485127	15 days Mag
485135	15 days Geological
485139	15 days Geochemical

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> 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 86(18)-80;



Ministry of
Natural
Resources

Technical Assessment
Work Credits

File
2.3786

Recorded Holder
STAFFORD K. KELLEY

Township or Area
ZARN LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>40</u> days Magnetometer <u>20</u> days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological <u>20</u> days Geochemical <u>20</u> days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" 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.	PA 485114 to 18 incl. 485120 to 26 incl. 485128 to 34 incl. 485138

Special credits under section 86 (15a) for the following mining claims

15 days
 PA 485119
 485127
 485135
 485139

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 86(18)-80:

March 19, 1981

2.3786

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Mr. Hanson:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer), Geological and Geochemical surveys submitted under Special Provisions (credit for Performance and Coverage) on Mining Claim Pa.485009 et al, in the Area of Zarn Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

SH/RS

cc: Robert Rosenblatt

cc: Stafford K. Kelley

cc: A.C.A. Howe International
Toronto, Ontario

December 30, 1981

2.3786

D.J. Gillies
159 Bay Street
Suite 826
Toronto, Ontario
M5J 1J7

Dear Sir:

Re: Geophysical (Electromagnetic and Magnetometer), Geological and Geochemical Surveys submitted on Mining Claims Pa.485009 et al, in the Area of Zarn Lake.

Enclosed are the plans, in duplicate, for the above-mentioned Survey. In order to complete your submission, please provide the following information on these plans and return them to this office:

- a) On the V.L.F. Dip angle profile - please show the raw data
- b) Please show all claim lines and numbers
- c) Geological plans must be coloured according to the legend
- d) Geochemical plans must have full listing of values on them
- e) Need all certificates of analysis.

Also enclosed, is the requirements re: Qualification of the author of Geotechnical Surveys. Please provide a brief resume for our files.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr/bk

Encl.

cc: Mining Recorder
Sioux Lookout, Ontario



A. C. A. HOWE INTERNATIONAL LTD.

Mining and Geological Consultants

January 27, 1982

Ministry of Natural Resources
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

ATTENTION: Mr. F. W. Matthews

Dear Sir:

RE: Your correspondence dated December 30, 1981; your file 2.3786.

Enclosed please find all the requested data. If you have any questions,
please do not hesitate to call me.

Yours very truly,

A. C. A. HOWE INTERNATIONAL LTD.

G. W. Felderhof

GWF/lf

Enclosure

1982 03 01

23786

Mr. D.J. Gillis
159 Bay Street, Suite 826
Toronto, Ontario
M5J 1J7

Dear Sir:

Re: Geophysical (Electromagnet and Magnetometer), Geological and
Geochemical Surveys submitted on Mining Claims P.A. 485009
et al in the Area of Zarn Lake.

Enclosed are the Electromagnetic, Magnetometer, Geological and
Geochemical plans in duplicate for the above mentioned survey
(Alkenore-Buffalo area only).

Please show all claim lines, claim posts and claim numbers on these
maps and return them to this office.

For further information please contact Mr. F.W. Matthews at
965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

FW Matthews/smc

Encl.

1982 10 05

2.3786

Mr. D.J. Gillis
159 Bay Street
Suite 826
Toronto, Ontario
M5J 1J7

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer)
Geological and Geochemical Surveys submitted
on Mining Claims PA 485009 et al in the Area
of Zarn Lake

On March 1, 1982 we sent a letter to you requesting further information in regard to the above mentioned survey. We have not received a reply to this letter.

Unless you can send us the information by October 15, 1982 the mining recorder will be directed to cancel the work credits recorded on January 26, 1981.

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

J. Skura:sc



Ministry of
Natural
Resources

Ontario

.1982 12 20

Your file:

Our file: 2.3786

Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

Yours very truly,

A handwritten signature in cursive script, appearing to read "E.F. Anderson".

E.F. Anderson
Director
Lands Administration Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

For further information, if
required, please contact
Mr. F.W. Matthews at 416 965-1380

A. Barr:sc

- cc: Mr. Robert Rosenblat
Toronto, Ontario
- cc: A.C.A. Howe International Limited
Toronto, Ontario
- cc: MR. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario
- cc: ✓ Mr. Stafford K. Kelley
Oakville, Ontario



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1982 12 20

2.3786

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Ministry of
Natural
Resources

Ontario

Your file:

.1983 01 06

Our file: 2.3786

Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

Yours very truly,

A handwritten signature in cursive script, appearing to read "E.E. Anderson".

E.E. Anderson
Director
Lands Administration Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

For further information, if
required, please contact
Mr. F.W. Matthews at
416/965-1380

A. Barr:sc

cc: MR. Robert Rosenblat
Toronto, Ontario

cc: A.C.A. Howe International Limited
Toronto, Ontario

cc: Mr. Stafford K. Kelley
Oakville, Ontario

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

B45 (6/79)



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1983 01 06

2.3786

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Ministry of
Natural
Resources

Ontario

Your file 52 J/4 SE (12)

1983 02 28

Our file: 2.3786

Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer)
Geological and Geochemical Surveys on Mining
Claims PA 485009 et al in the Area of Zarn Lake

The Geophysical (Electromagnetic & Magnetometer) Geological
and Geochemical Surveys assessment work credits as listed
with my Notice of Intent dated January 6, 1983 have been
approved as of the above date.

Please inform the recorded holder of these mining claims and
so indicate on your records.

Yours very truly,

E.P. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:sc

cc: A.C.A. Howe International Ltd
Toronto, Ontario

cc: Mr. Robert Rosenblat
Toronto, Ontario

cc: Resident Geologist
Sioux Lookout, Ontario

DANIEL J. GILLIS

Address: Denver, Colorado

Date of Birth: July 19, 1952
New Glasgow, Nova Scotia

EDUCATION

- 1970-1974 St. Francois Xavier, Antigonish, Nova Scotia, 4 years.
B.Sc. Geology.
- 1965-1970 New Glasgow High School, 5 years.
- 1957-1965 Elementary education to grade 8.

WORK EXPERIENCE

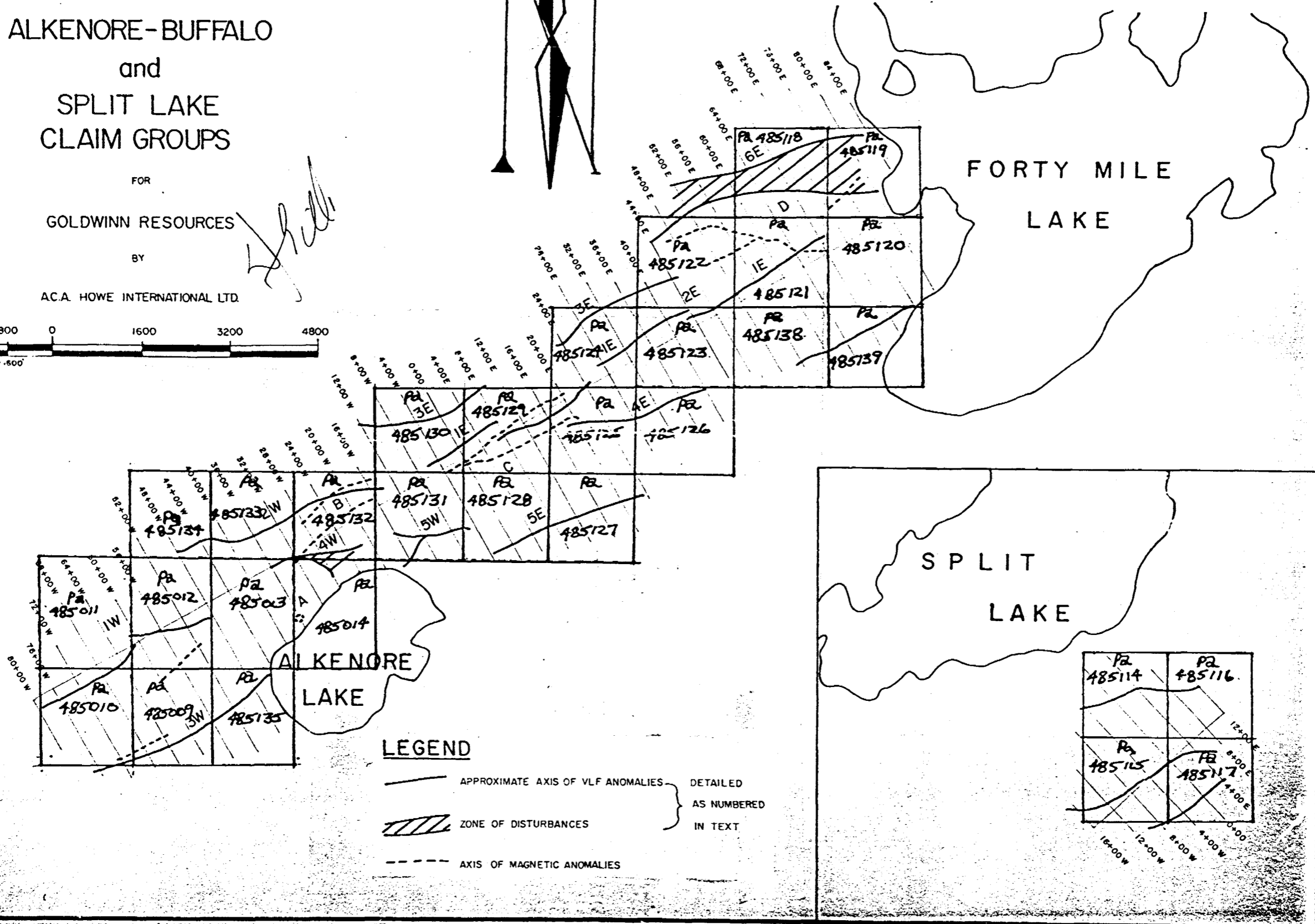
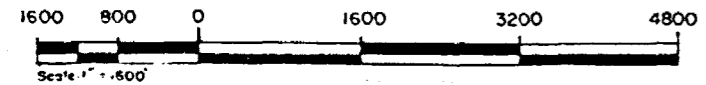
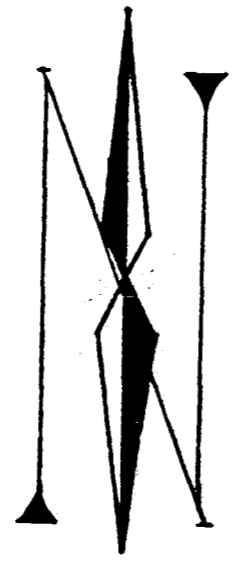
Employer: A. C. A. Howe International Ltd., Mining and Geological
Consultants.

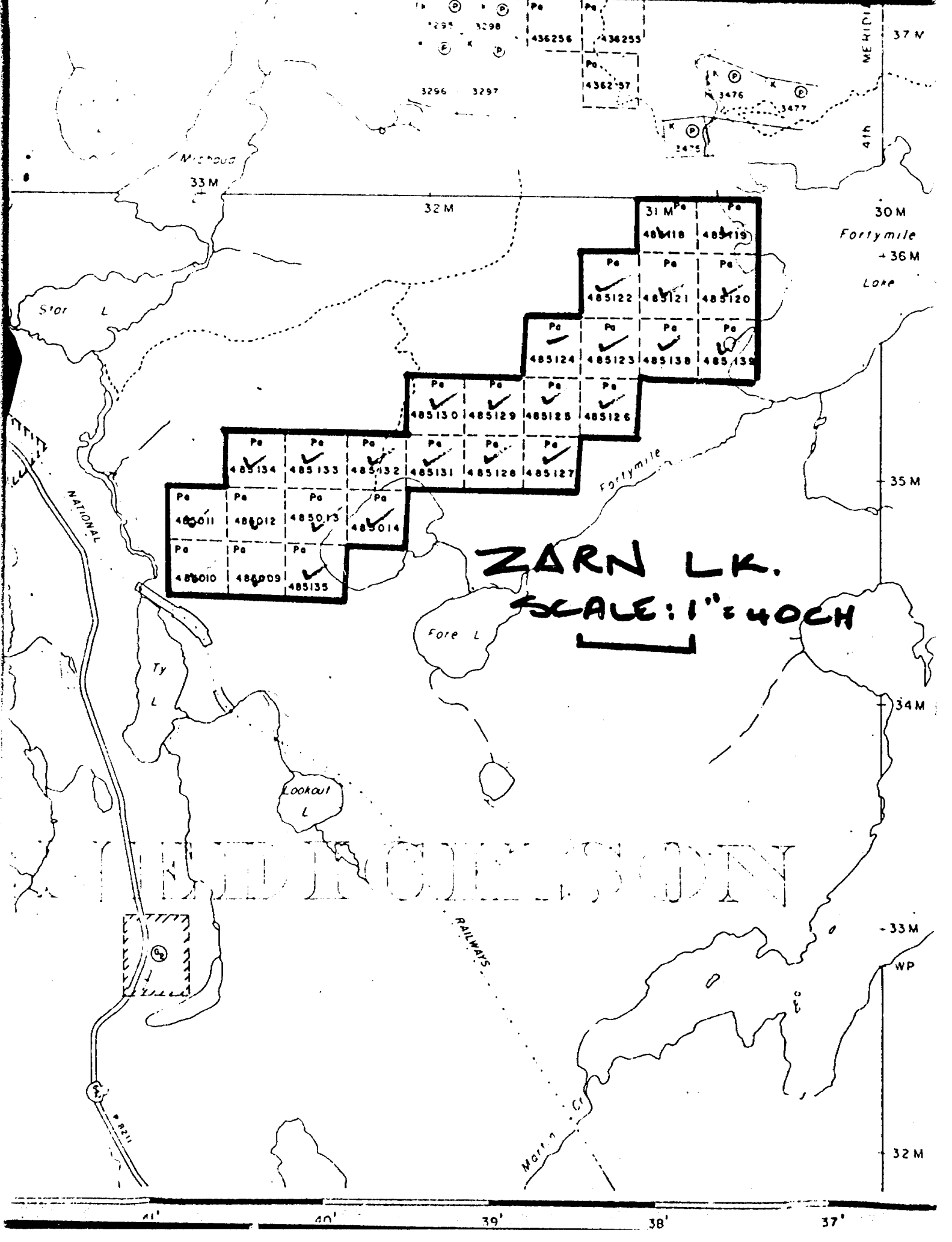
- 1981-1982 Assume duties as manager of U.S. subsidiary of A.C.A. Howe
International Ltd., located in Denver, Colorado.
Director of U.S. subsidiary.
- 1981 Transfer to Denver branch of company. Supervision of exploration
program on the Carter property, located near Gunnison,
Colorado, known as the "Gold Brick Joint Venture".
- Duties: Surface and sub-surface geological mapping, prospecting, rock
sampling. Supervision of bulldozer trenching diamond drilling
and geological control of underground development program.
- 1980 Alkenore-Buffalo property, east of Sioux Lookout. Surface exploration
program on two groups of claims.
- Duties: Grid preparation, supervision of line cutting, geological and
topographical mapping, geophysical surveys, soil, rock geo-
chemistry, and supervision of bulldozer trenching and rock
blasting. Plus duties as staff geologist at company's Toronto
offices.
- 1974-1979 Project geologist on Burnt Hill deposit located in central New
Brunswick, the tungsten-molybdenum tin deposit. Scope of work
consisting of surface exploration, underground development, and
pilot plant testing. Program also included ground follow-up of
airborne geophysical surveys.
- Duties: Geological mapping, geophysical surveys, supervision of drilling
programs and core logging. During 1978 and 1979, was geologist
on site responsible for underground mapping, sampling and super-
vision of surface sampling plant.

KEY TO GEOPHYSICAL ANOMALIES

OF
ALKENORE-BUFFALO
and
SPLIT LAKE
CLAIM GROUPS

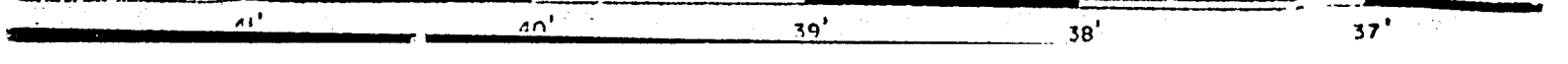
FOR
GOLDWINN RESOURCES
BY
ACA. HOWE INTERNATIONAL LTD.





ZARN LK.
 SCALE: 1" = 400'

INDIAN COMMISSION

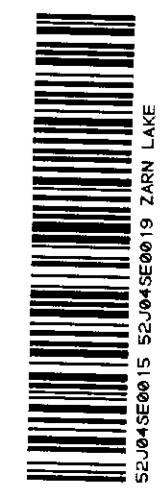


FOR ADDITIONAL

INFORMATION

SEE MAPS:

S2T/04SE-0019 #1-#20



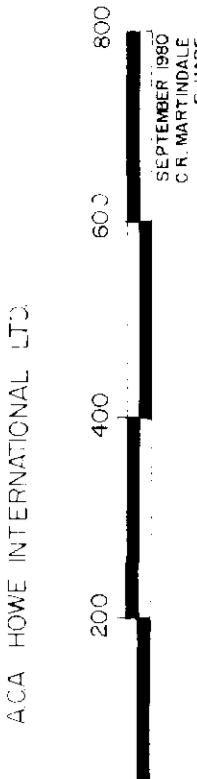
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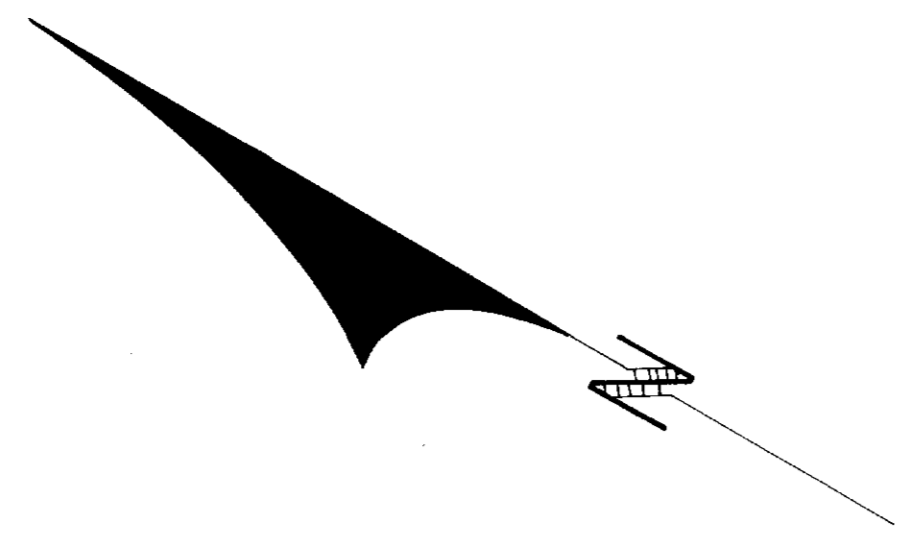
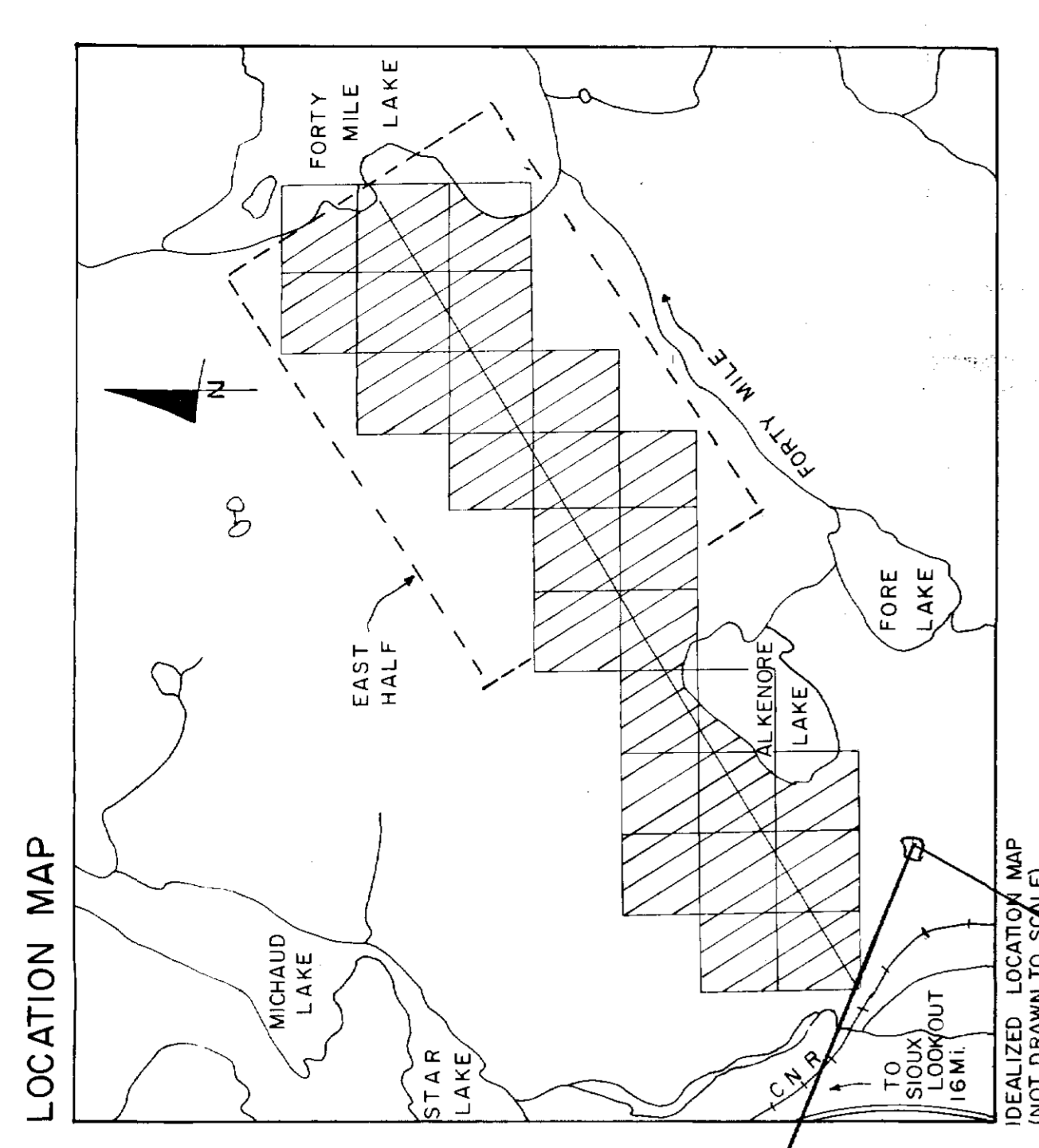
GOLDWIN RESOURCES

ALKENORE-BUFFALO

52T/04SE-0019-#2 TOPOGRAPHIC & GEOLOGICAL MAP



2.3780.dwg



LEGEND

- ALDER SWAMP (SPECKLED ALDER AND SOME SMALL SPRUCE AND WHITE CEDAR)
- SPRUCE SWAMP (BLACK SPRUCE, WHITE SPRUCE, WHITE CEDAR, BALM FIR AND ALDER)
- TALL SPRUCE PINE AND FIR OR SOFT BUT NOT WATERLOGGED GRASS
- MIXED
- OPEN GROUND - COBBLIST VEGETATION BROWN
- GENTLE SLOPE
- MODERATE SLOPE
- STEEP SLOPE
- STREAM WITH DIRECTION OF FLOW
- DRAIN FOOT
- LAKE SHRUB
- GEOLOGICAL CONTACT (APPROXIMATE)
- EXPOSURE - METROLITE
- EXPOSURE - GRANITE
- AERIAL CASSIR RESULTS
- TRENCH
- FLASHED TRAIL



ZONE 10
Mv
G

FORTY MILE LAKE

Mv

Pa 485 118

Pa 485 121

Pa 485 120

Pa 485 139

Pa 485 122

Pa 485 138

Pa 485 123

Pa 485 126

Pa 485 124

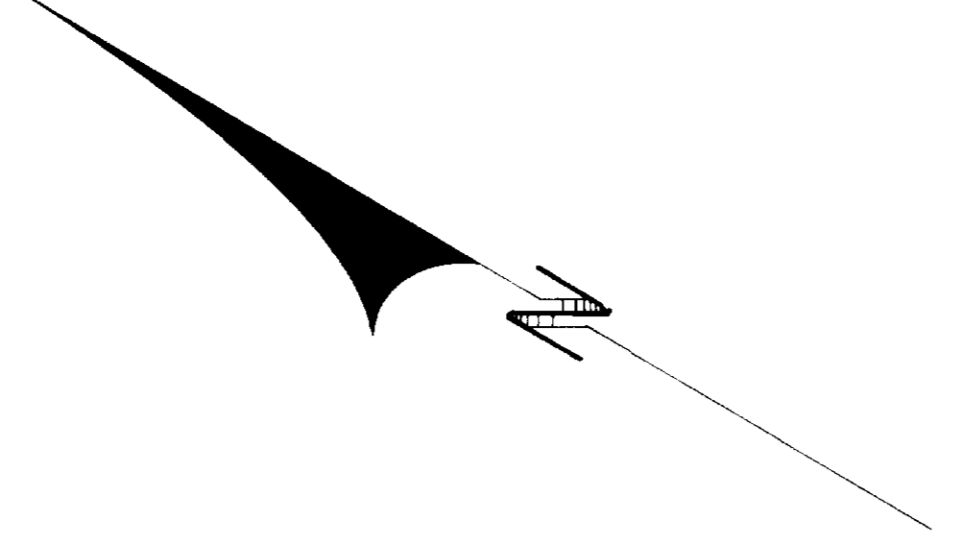
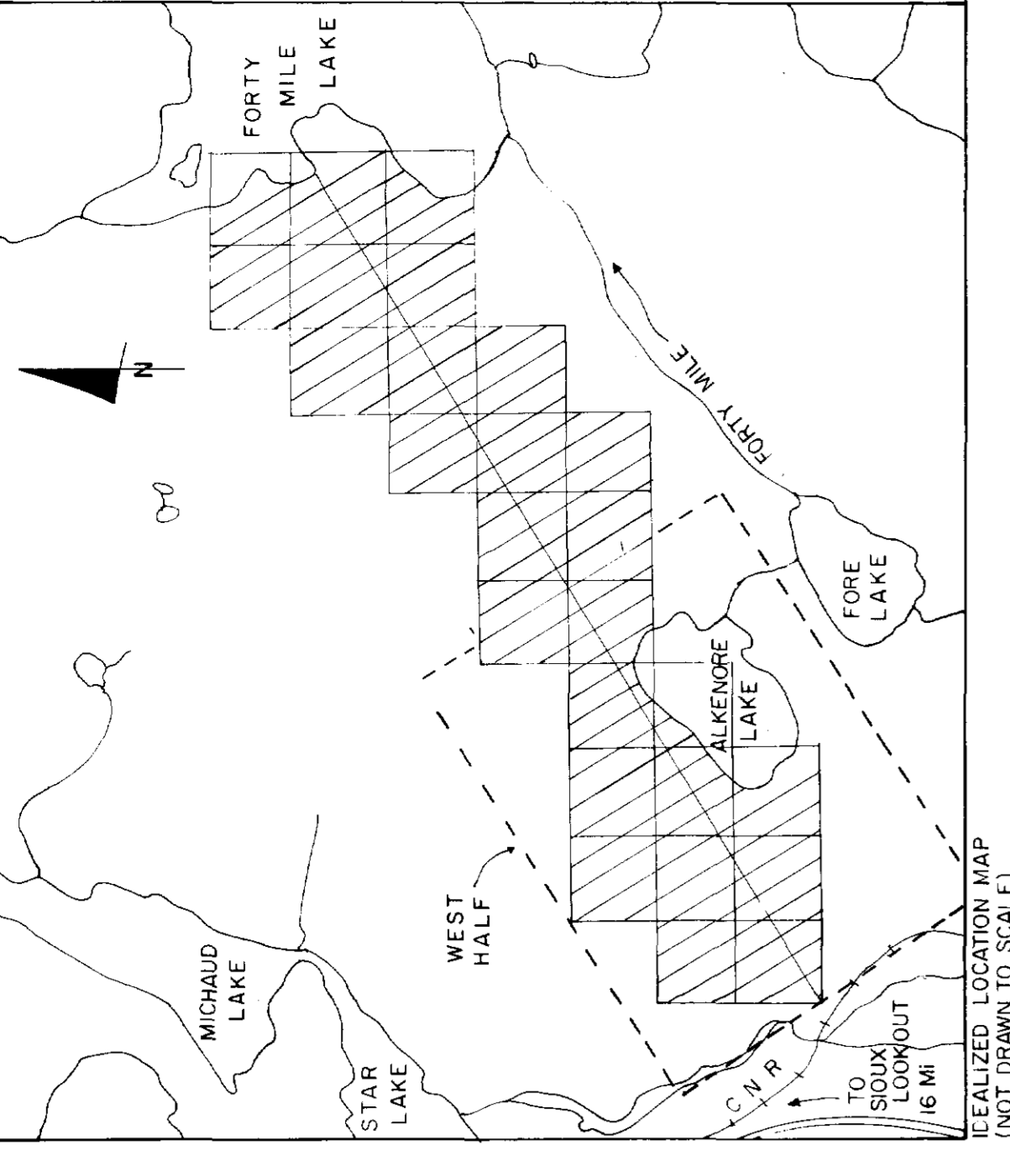
Pa 485 125

Pa 485 127

Pa 485 128

2000N 1800N 1600N 1400N 1200N 1000N 800N 600N 400N 200N 0 100 200 300 400 500 600 700 800 900 1000

LOCATION MAP



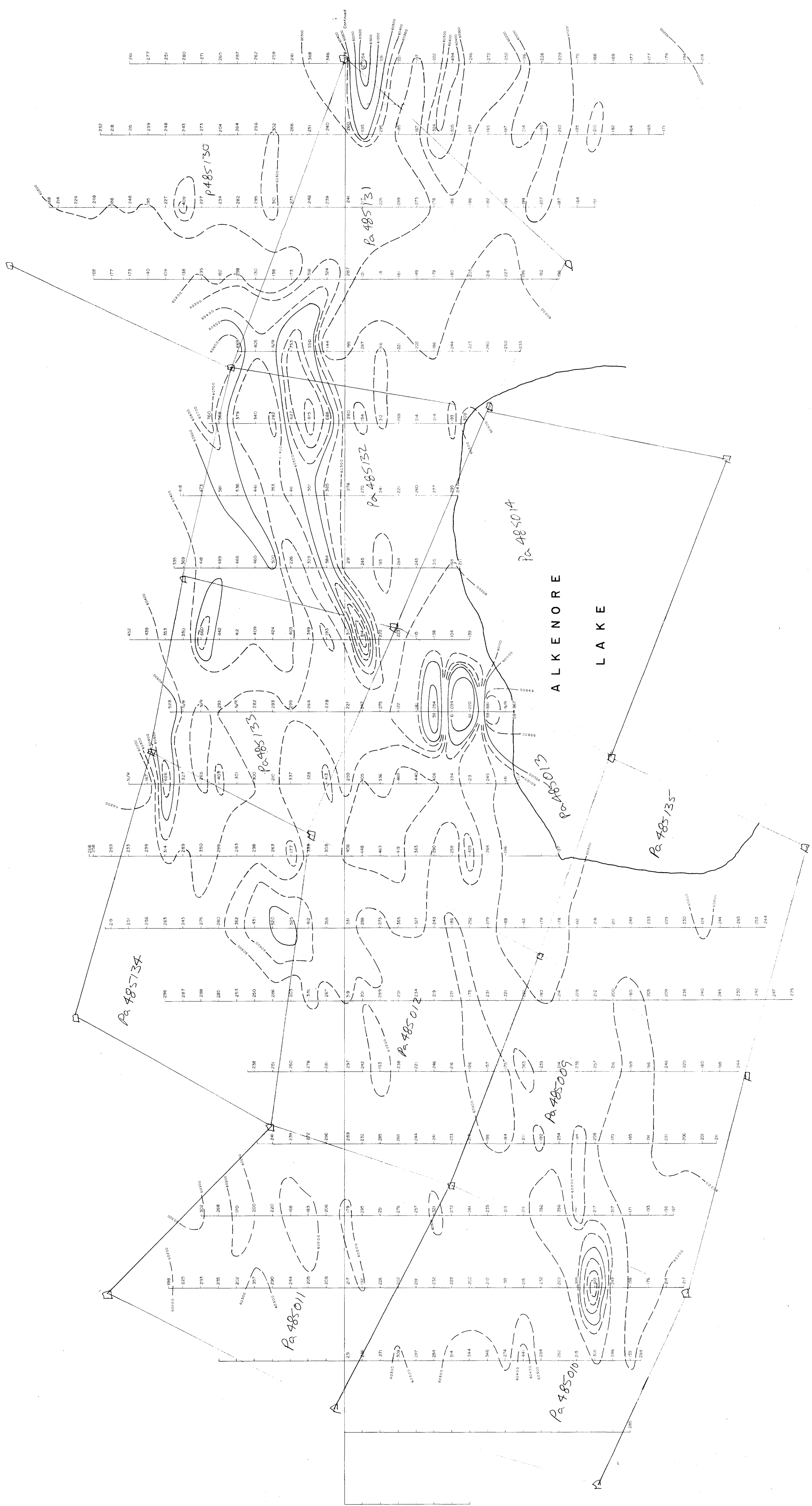
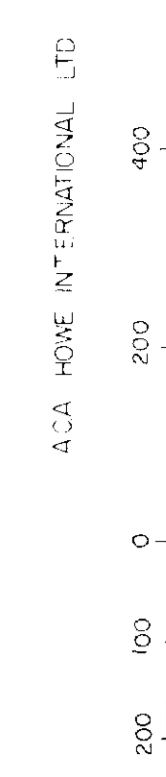
LEGEND

- CENTER INTERVAL 500 DAMA
- CONTOUR INTERVAL 100 DAMA
- CONTOUR INTERVAL 100 DAMA

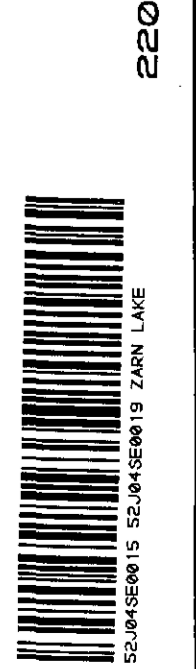
527/045E-0019-#3
 MAGNETOMETER
 SURVEY

ALKENORE-BUFFALO

GOLDWINN RESOURCES



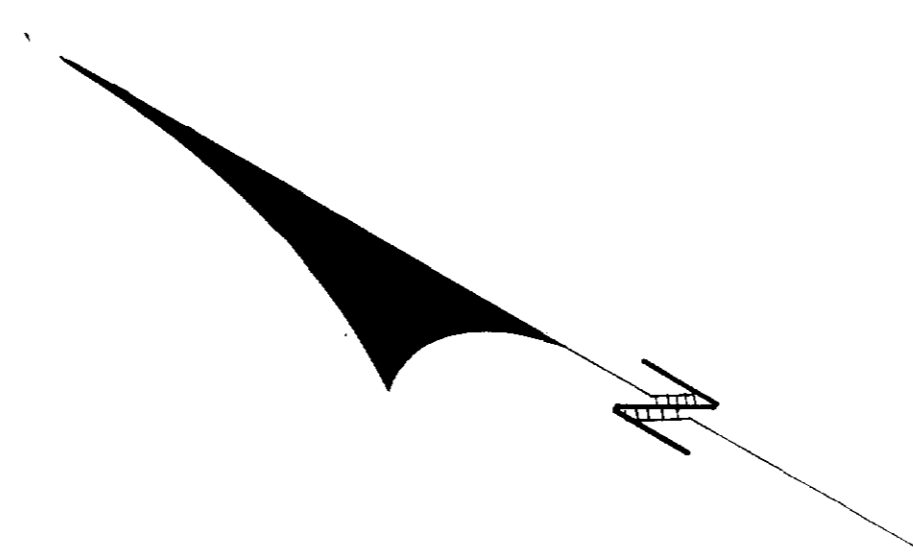
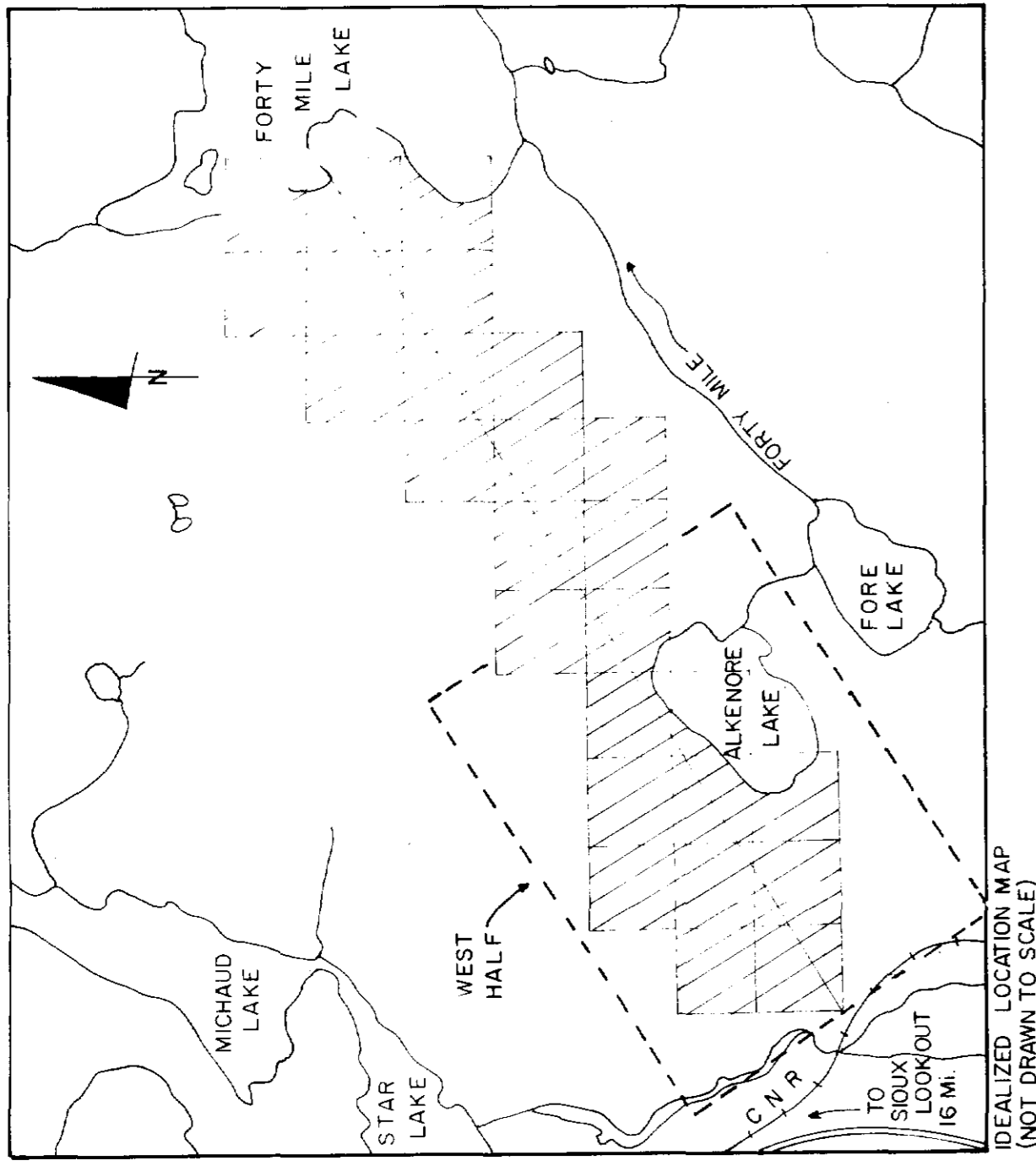
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220

527/045E-0019-#3

LOCATION MAP



LEGEND

- FIELD STRENGTH CONTOUR INTERVAL 0.5G
- POWER LINE
- ROAD
- RAILROAD
- WATER
- BOUNDARY OF THE AREA SURVEYED
- STATION SETTING MARK

527/04SE-0019 #5

ELECTRO-MAGNETIC SURVEY

FIELD STRENGTH CONTOUR

ALKENORE - BUFFALO

GOLDWINN RESOURCES

BY

ALCANTARA INTERNATIONAL LTD

ALCANTARA

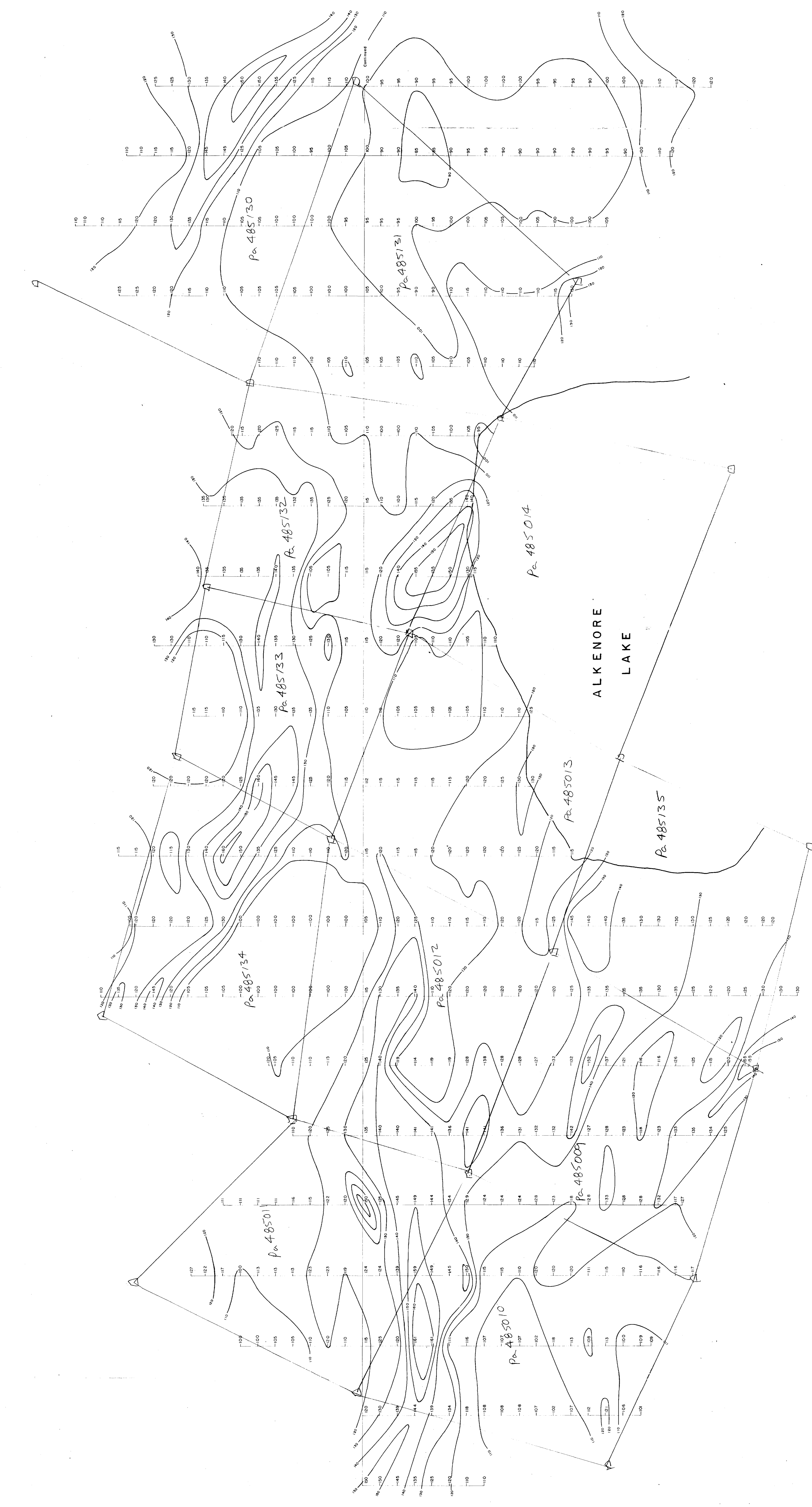
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ALCANTARA

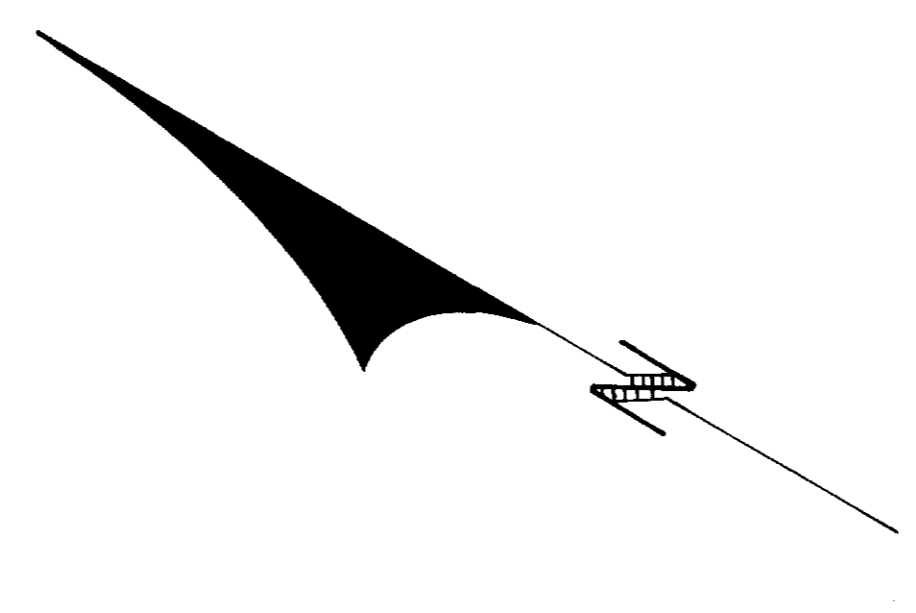
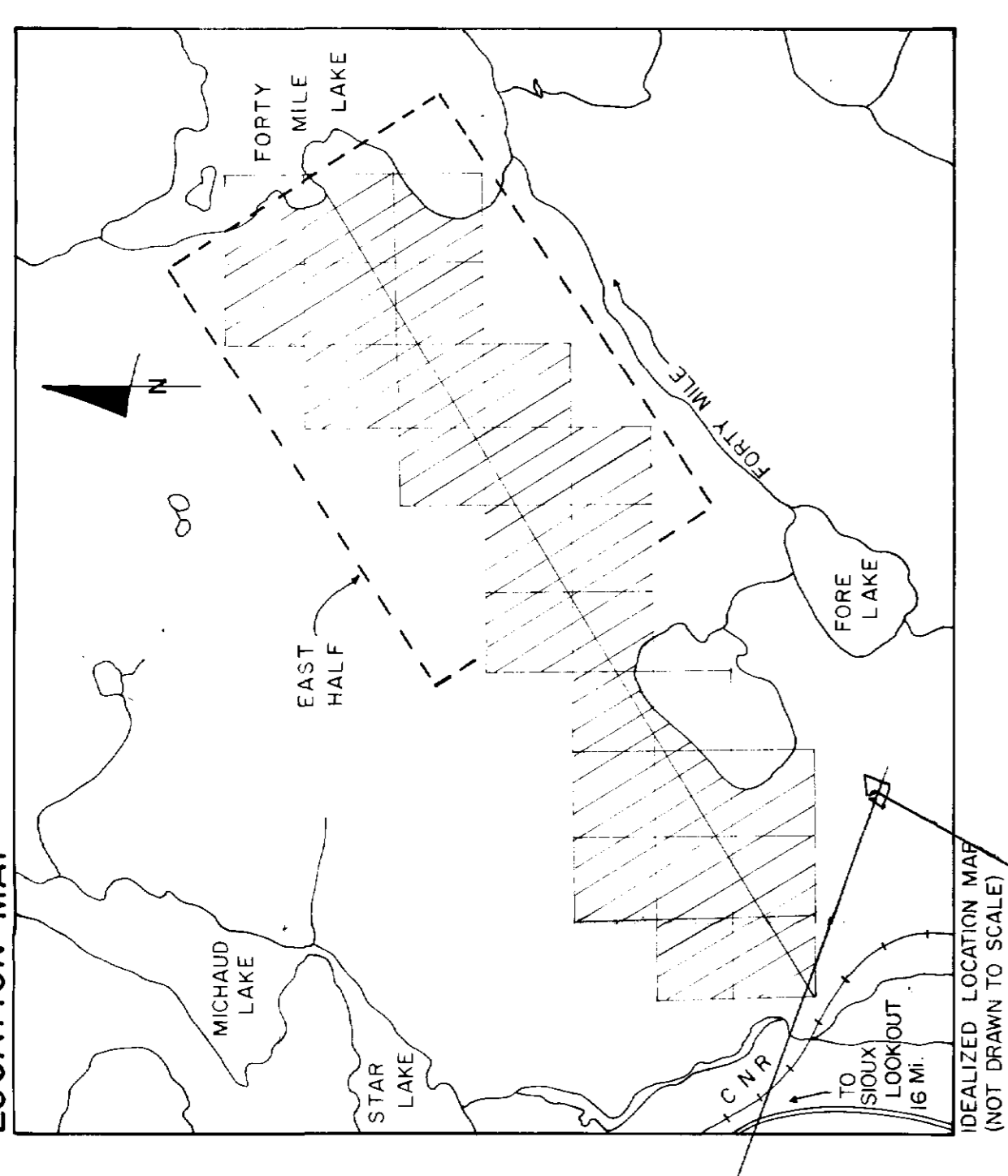
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ALCANTARA

ALCANTARA

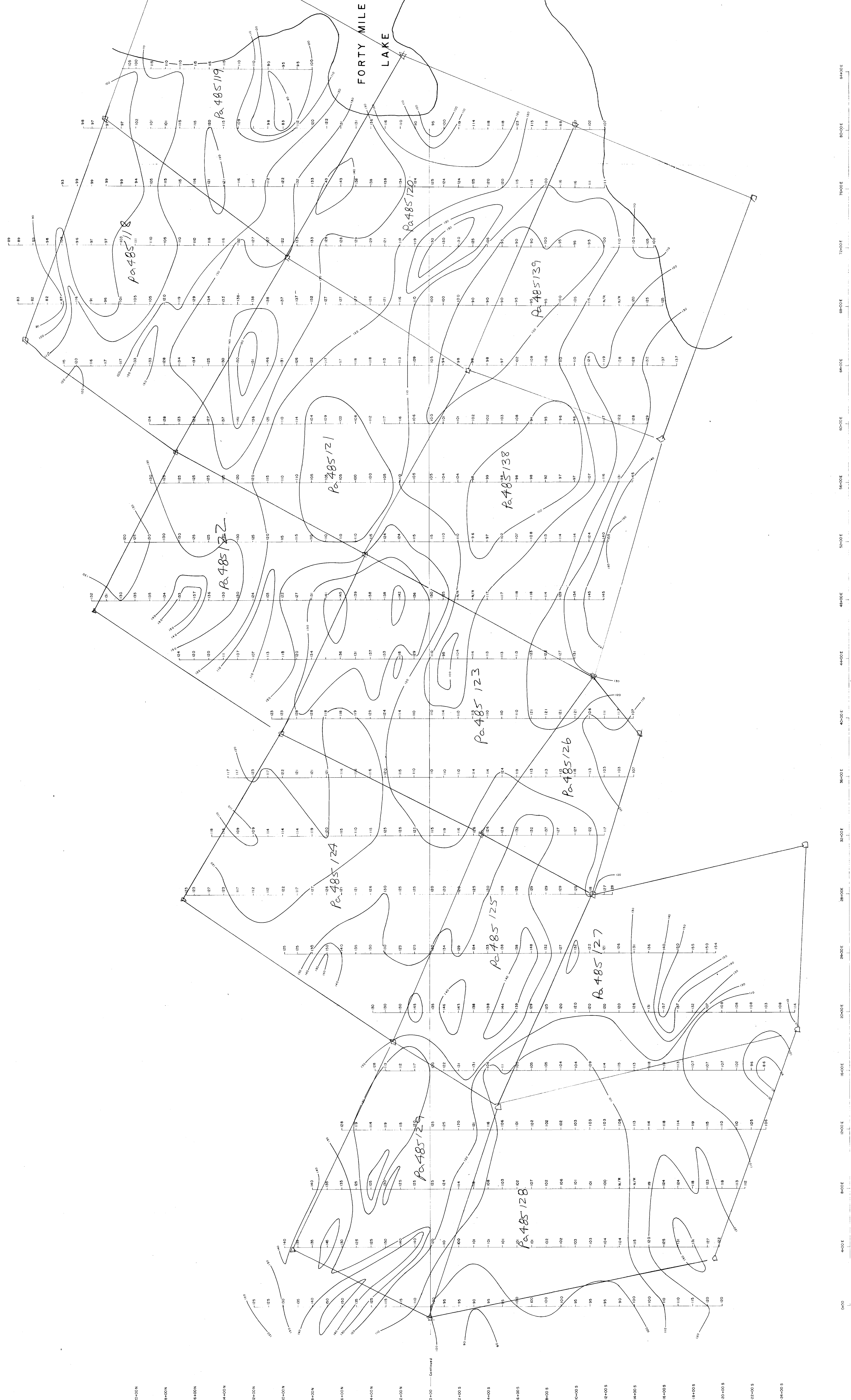


LOCATION MAP



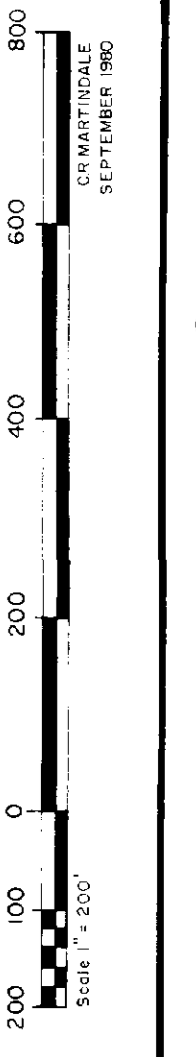
LEGEND

FIELD STRENGTH CONTOUR INTERVAL 0.5%
BASED FROM AVERAGE
BASE STATION SETTING 000%

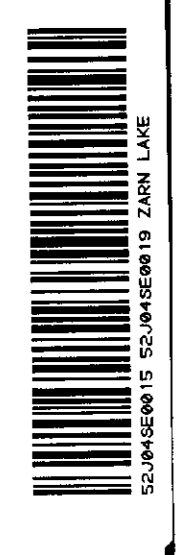


5271045E-0019-#6
ELECTRO-MAGNETIC
SURVEY
FIELD STRENGTH CONTOUR
ALKENORE-BUFFALO

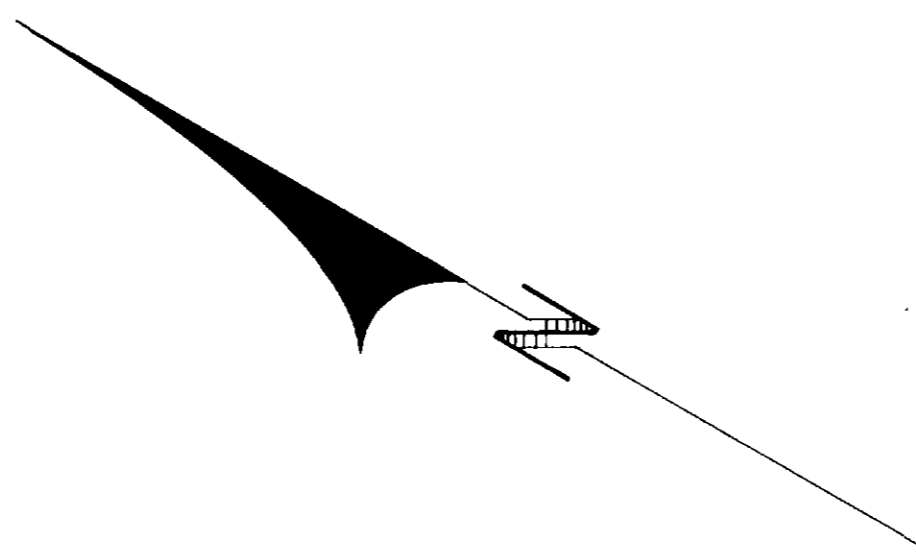
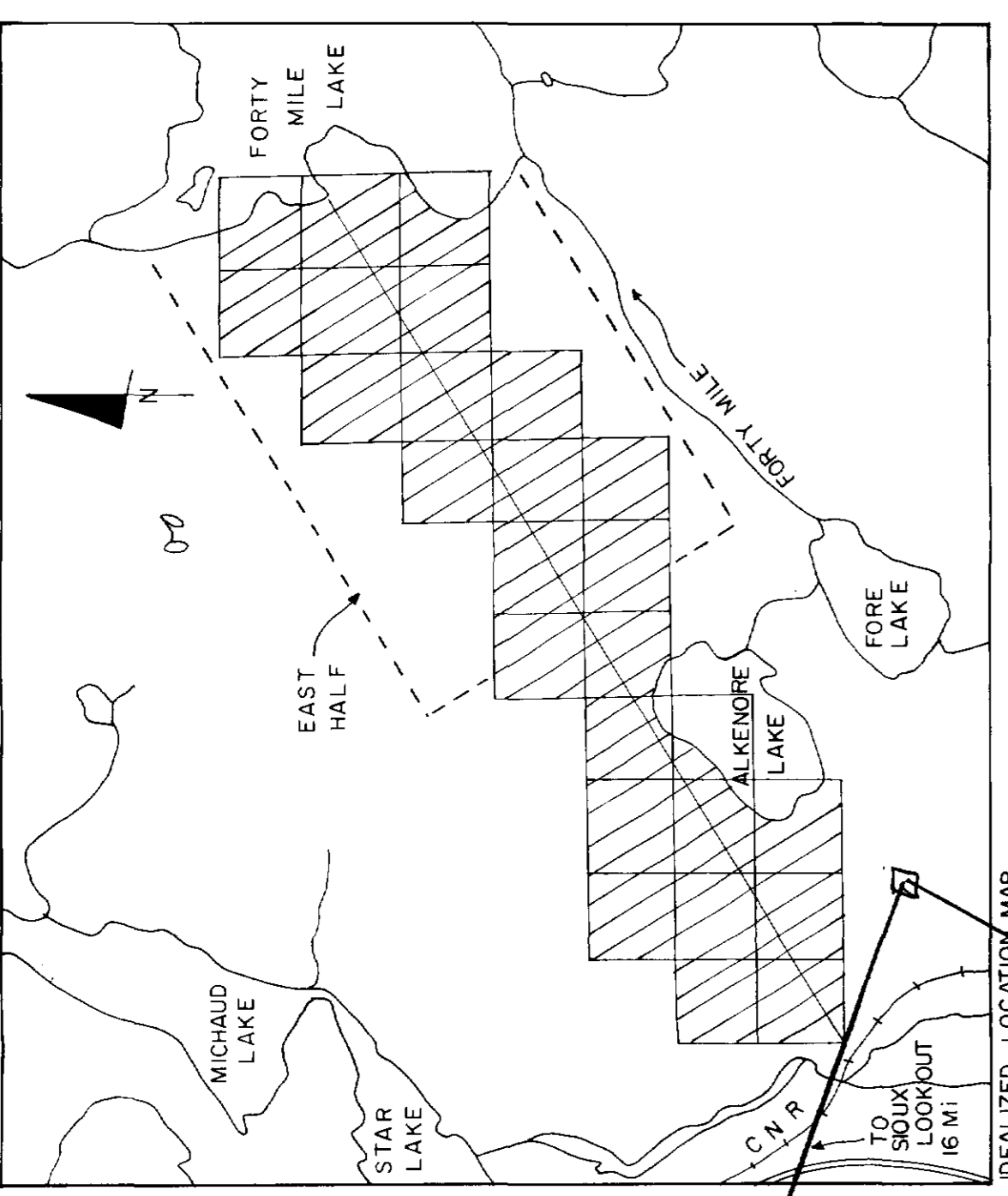
FOR
COLUMBIA RESOURCES
BY
ACA PIONE INTERNATIONAL LTD



83782-0019



LOCATION MAP



LEGEND

--- CONTOUR INTERVALS LIMITS
--- FRASER TRANSFORMATION OF DIP ANGLES

527/04 SE-0019-#7
ELECTROMAGNETIC SURVEY

FRASER TRANSFORMATION OF DIP ANGLES

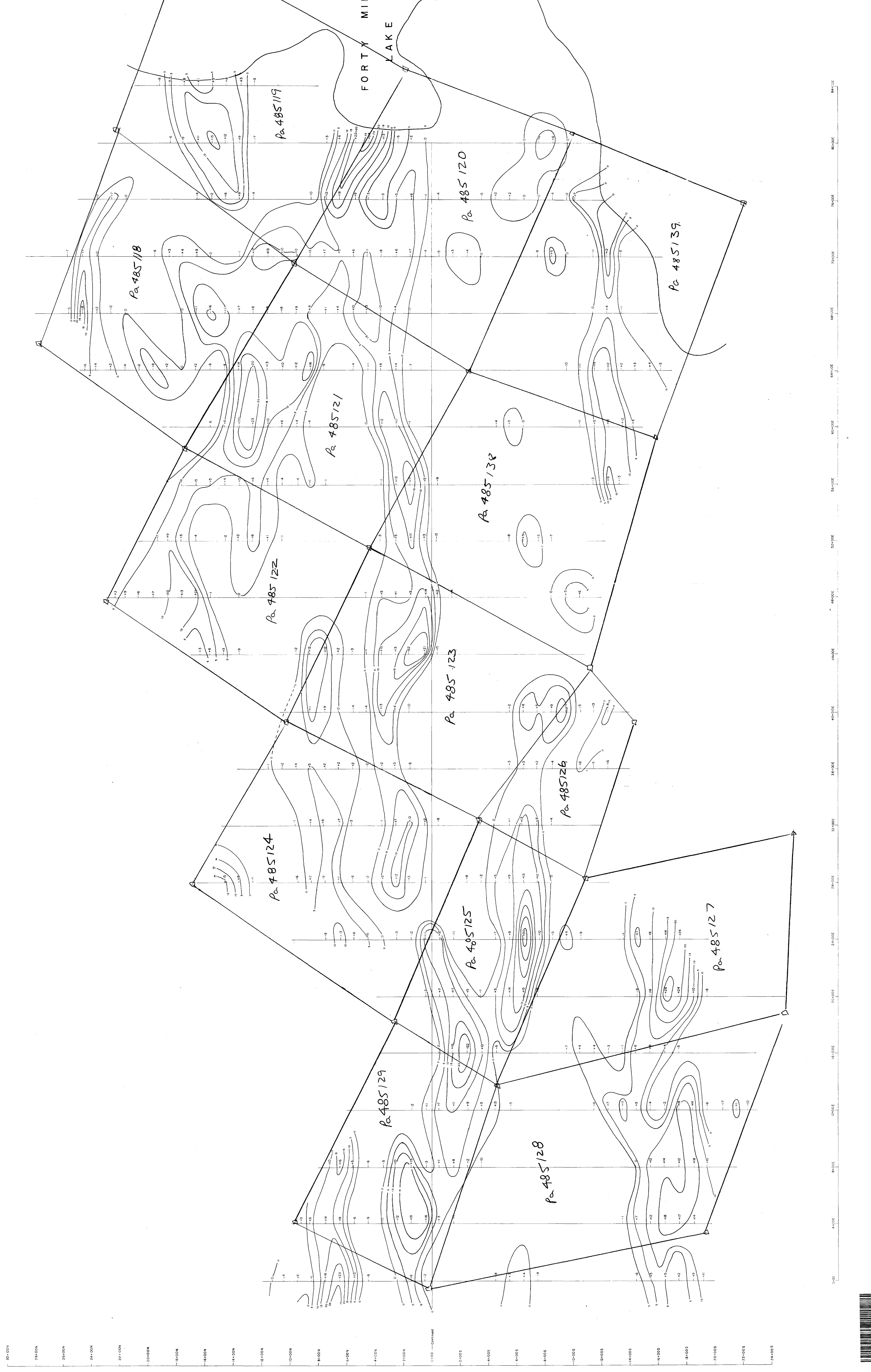
ALKENORE-BUFFALO

GOLDWINN RESOURCES

BY ACA HOME INTERNATIONAL LTD

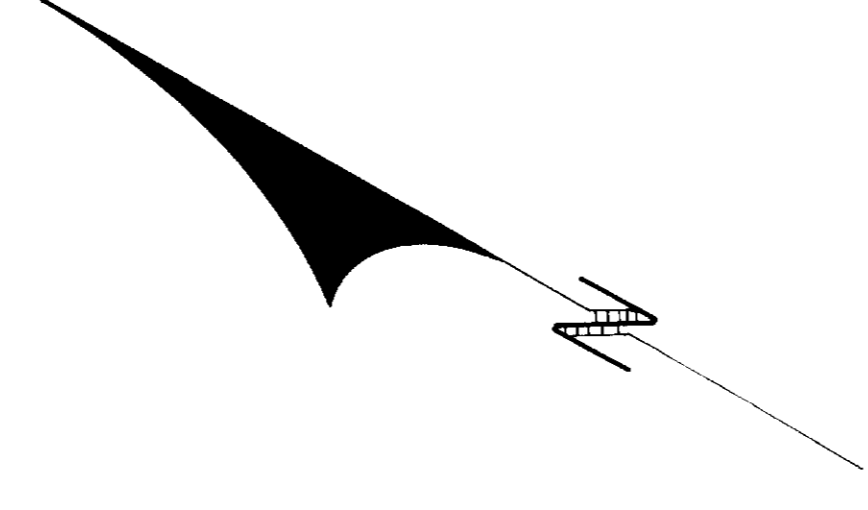
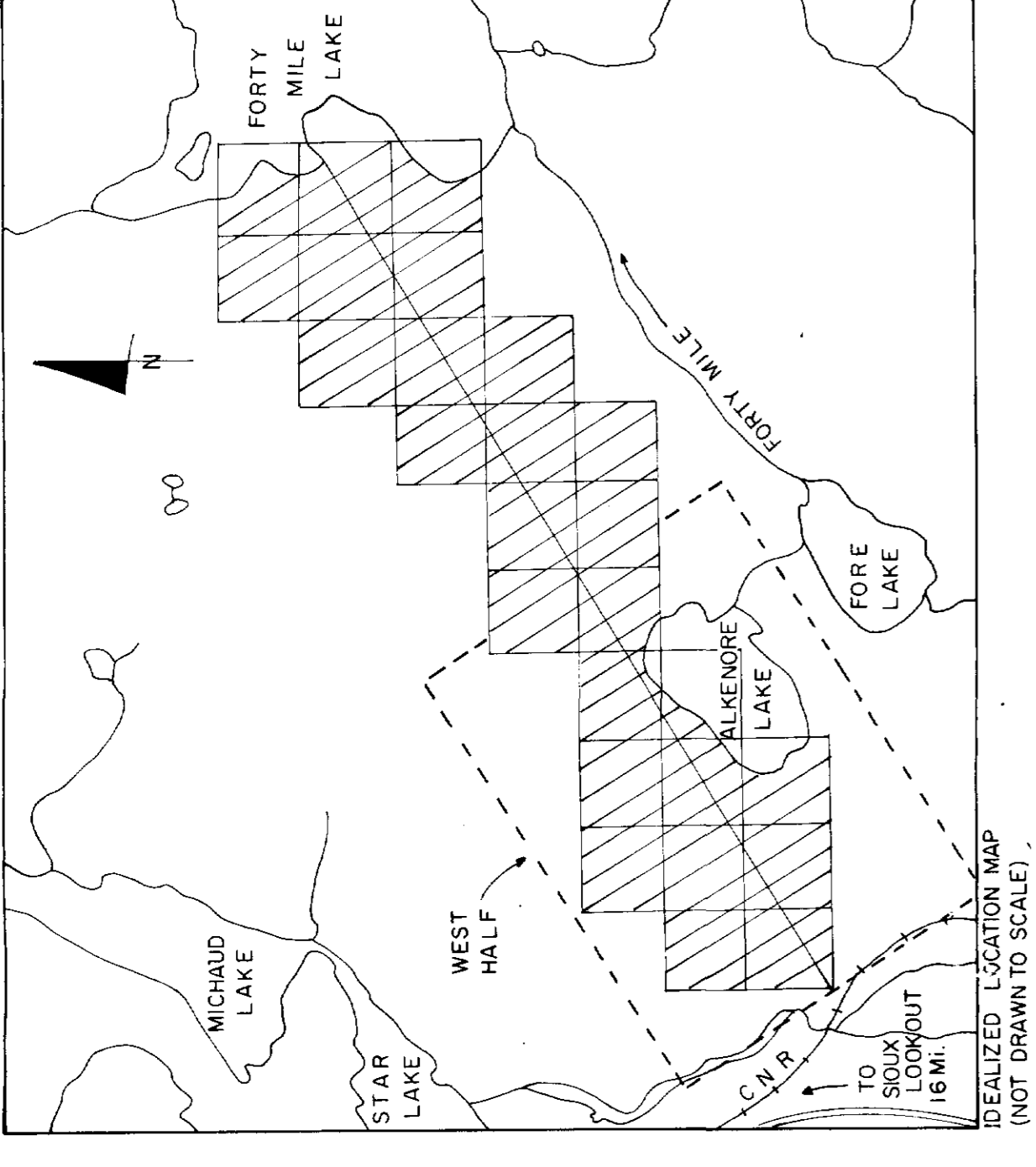


22726-1-3



800

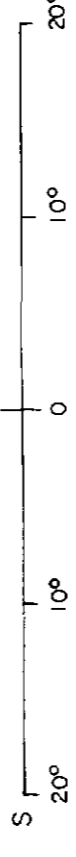
LOCATION MAP



LEGEND

DIP ANGLE PROFILE

SCALE



52-T/04SE-0019-#10

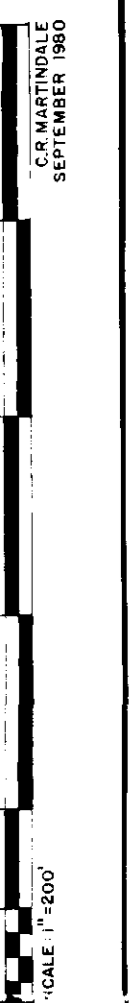
ELECTROMAGNETIC SURVEY

DIP ANGLE PROFILE

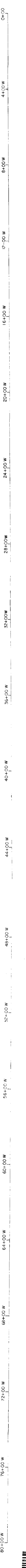
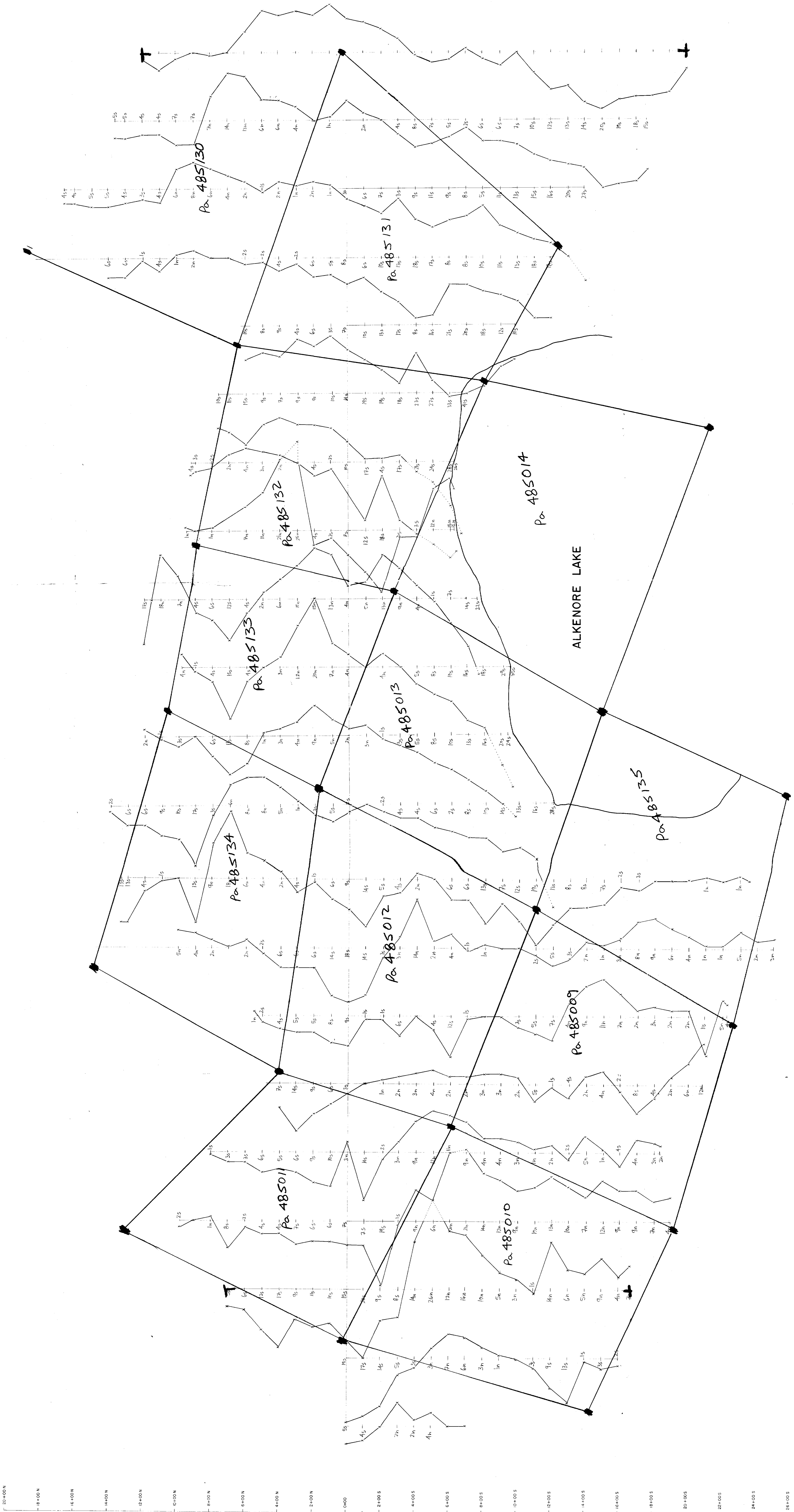
ALKENORE-BUFFALO

GOLDWINN RESOURCES

A.C.A. HOME INTERNATIONAL LTD

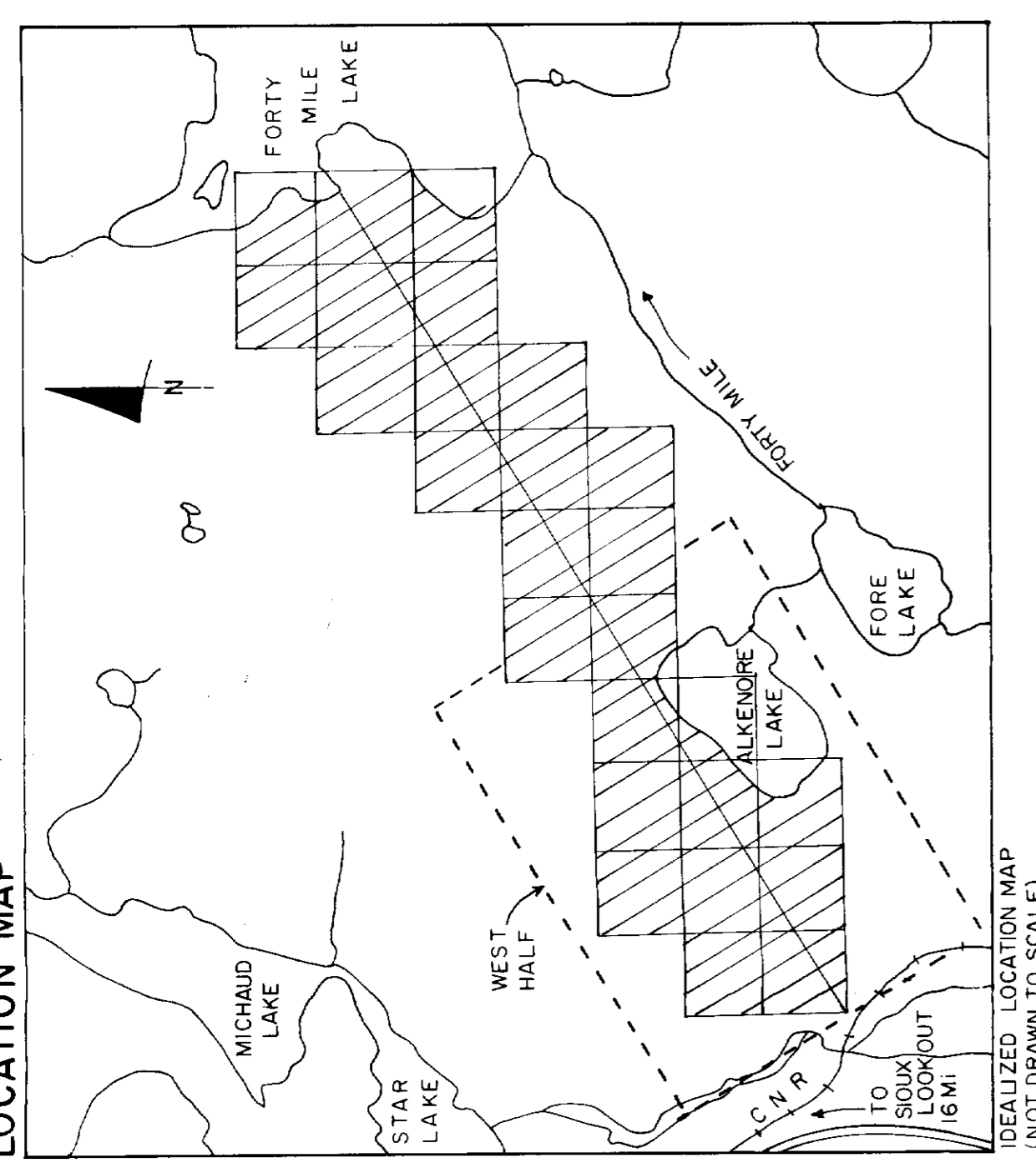


ESR0

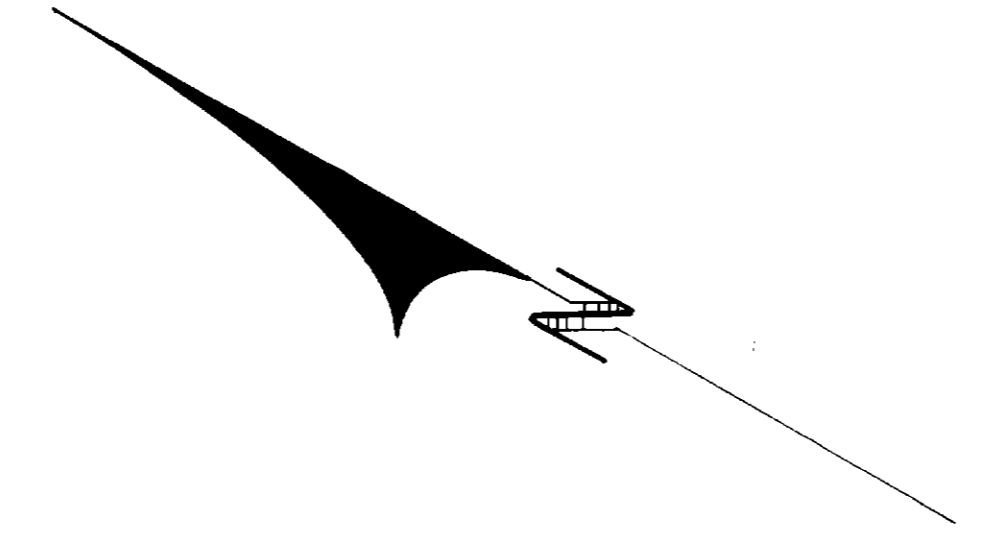


83786

LOCATION MAP



RESOURCES LOCATION MAP
(NOT DRAWN TO SCALE)

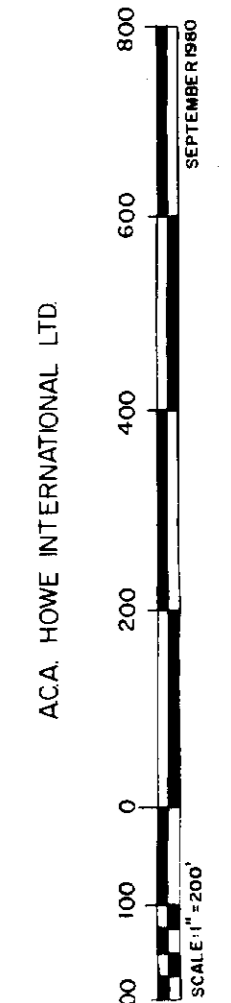


LEGEND

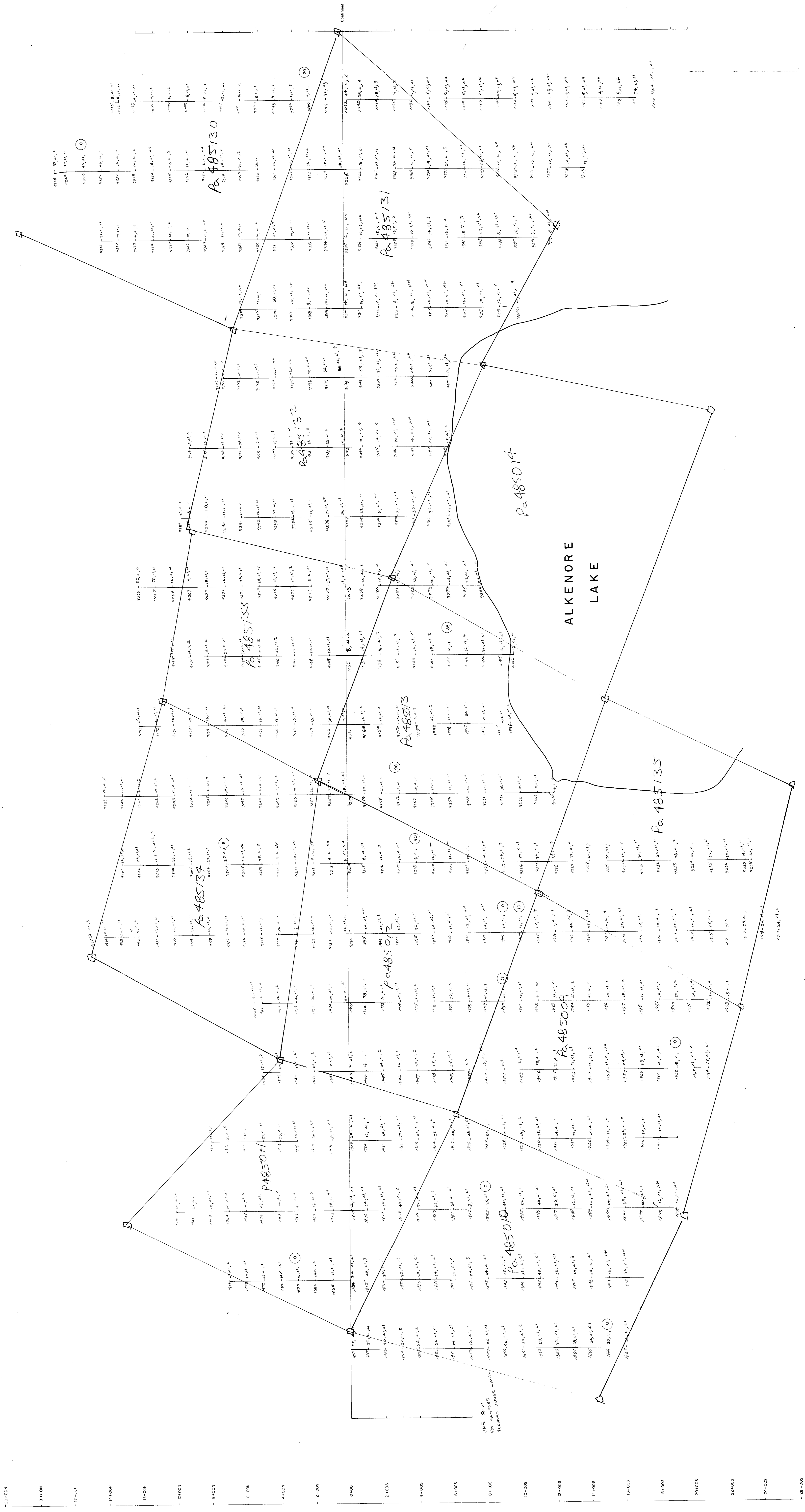
75.2 (10) 50% SAMPLE SITE WITH VALUES FOR LEAD IN DRILL SILVER IN DRILL AND GOLD IN DRILL
NOTE: LEAD VALUES UNDER 50PPM ARE NOT LISTED
GOLD VALUES UNDER 0.001PPM ARE NOT LISTED

527/04 SE-00 1977
GEOCHEMICAL SOIL
SURVEY
LEAD - SILVER - GOLD

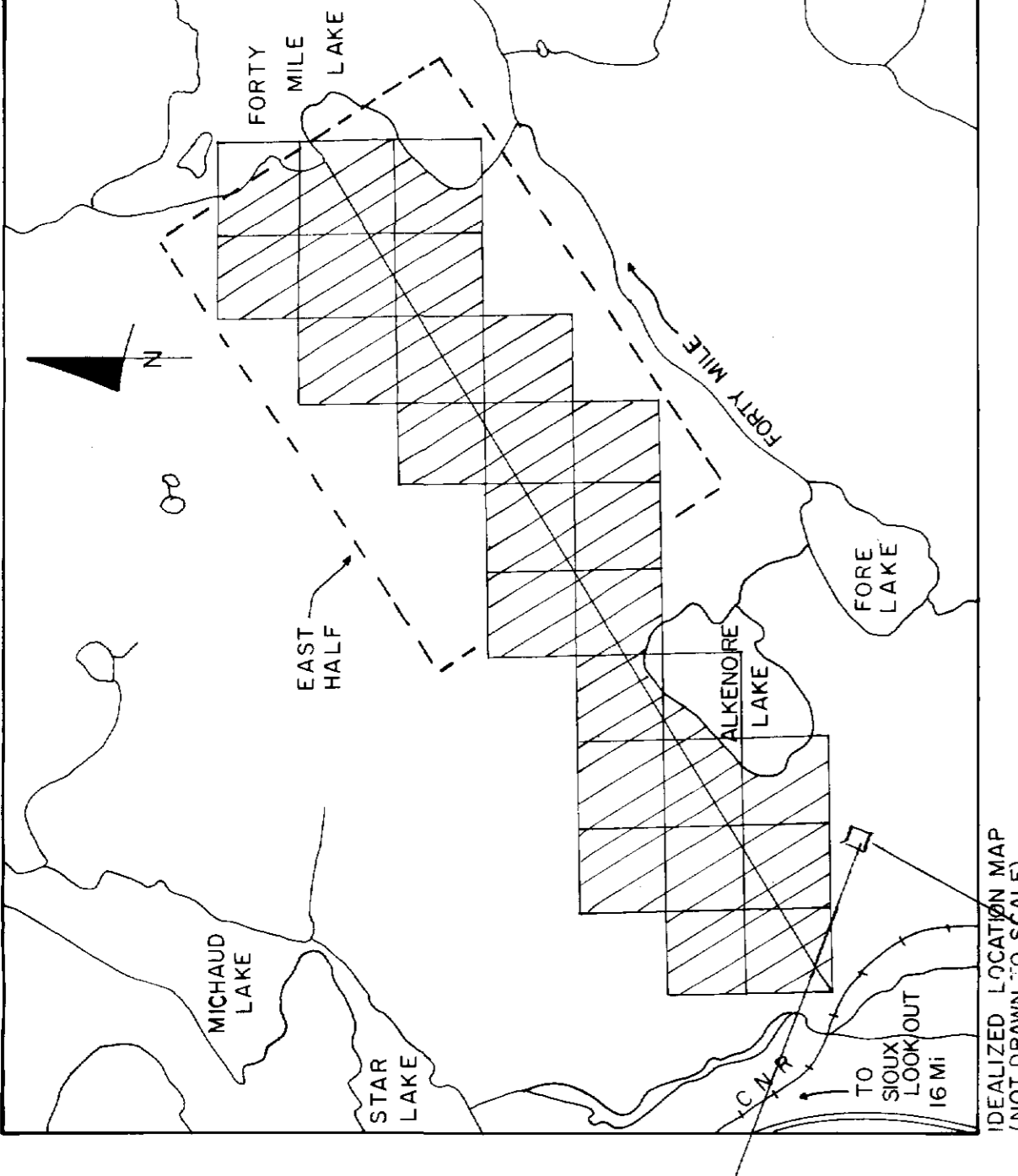
ALKENORE-BUFFALO
FOR
GOLDWINN RESOURCES



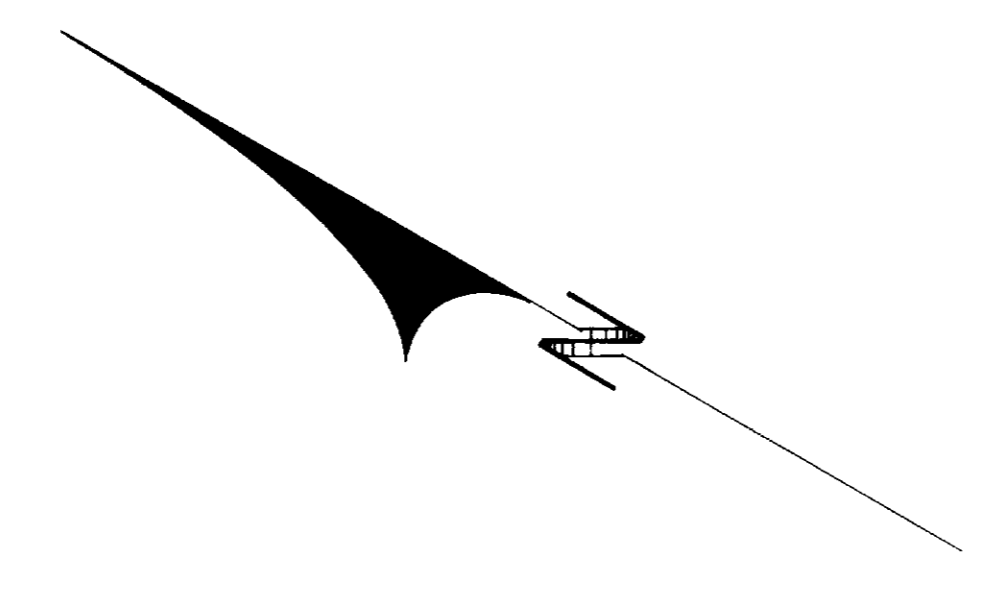
300



LOCATION MAP



ALL VALUES IN THIS REPORT ARE UNCORRECTED AND NOT LISTED UNLESS OTHERWISE NOTED



FORTY MILE LAKE

LEGEND

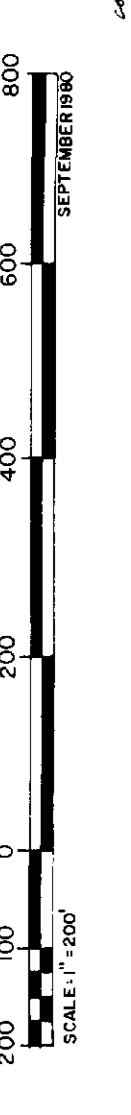
76.2 (6) SOIL SAMPLE WITH VALUES FOR LEAD IN ppm, SILVER IN ppm AND GOLD IN ppb
NOTE: LEAD VALUES UNDER 50 ppm ARE NOT LISTED
SILVER AND GOLD VALUES UNDER 500 ppm ARE NOT LISTED
GOLD VALUES UNDER 0.05 ppm ARE NOT LISTED

52T/045E-0019-#12
GEOCHEMICAL SOIL
SURVEY
LEAD - SILVER - GOLD

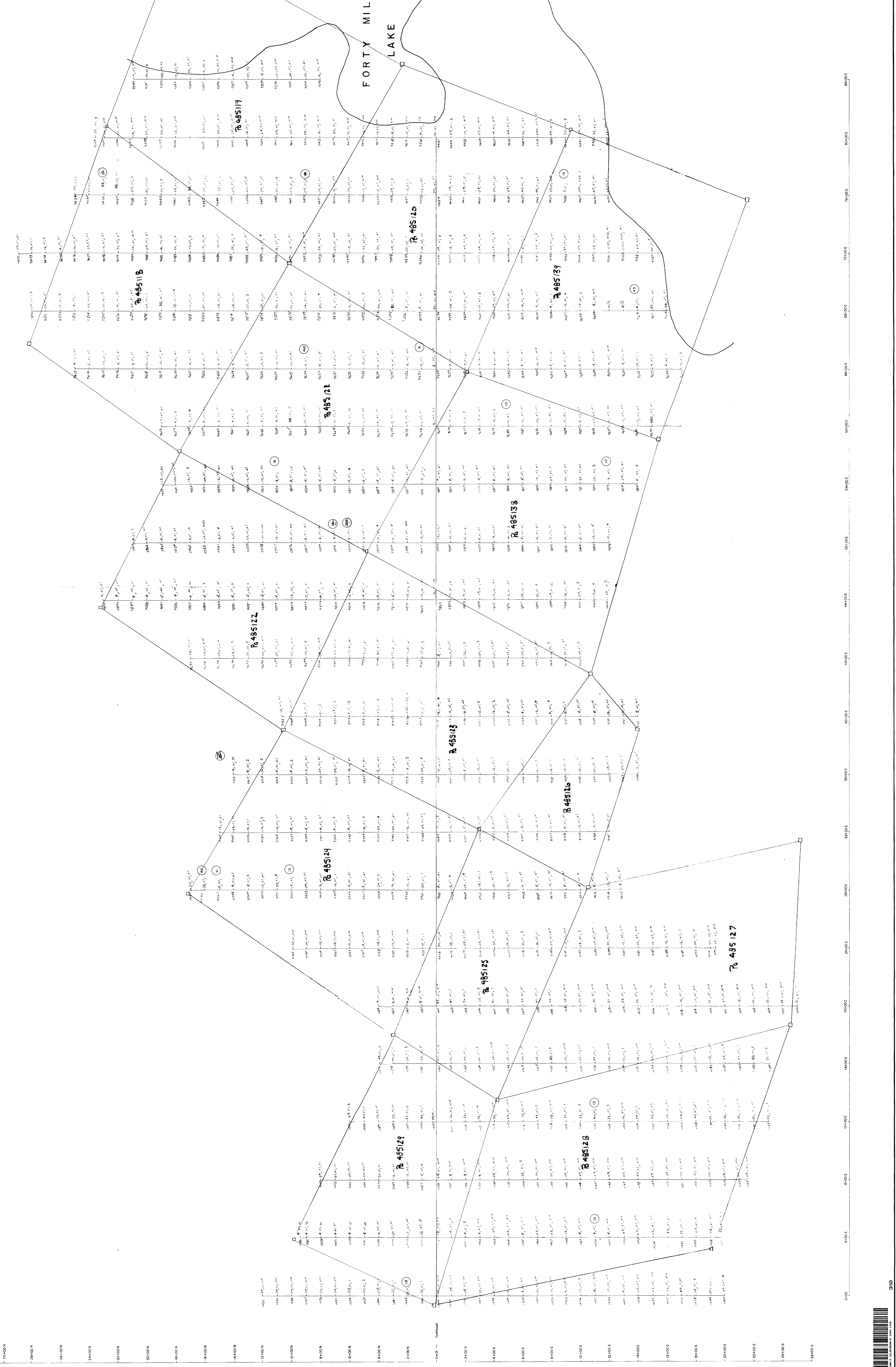
ALKENORE-BUFFALO

GOLDWINN RESOURCES

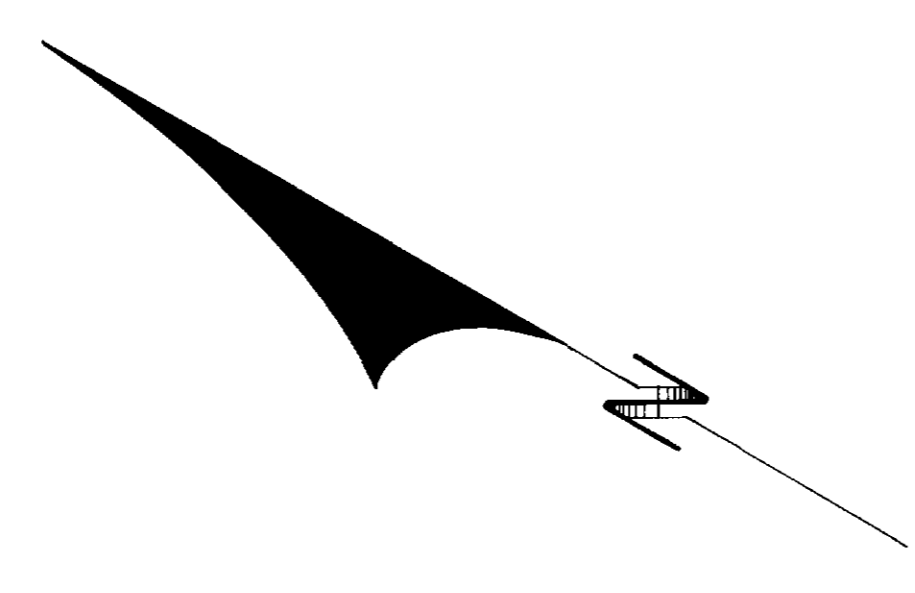
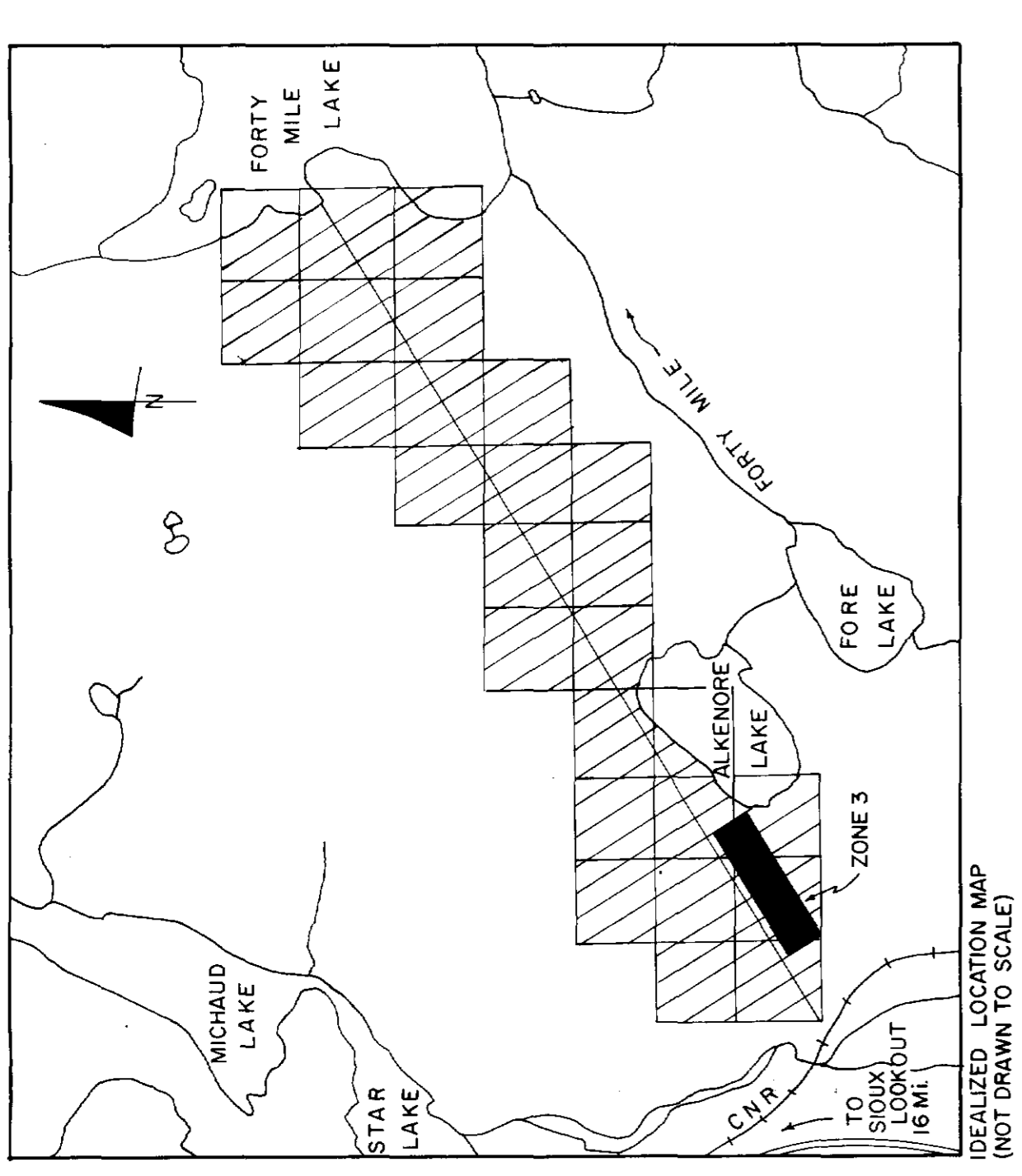
ALTA HOVE INTERNATIONAL LTD



2378E-4444



LOCATION MAP



LEGEND

- ALKENORE-BUFFALO CLAIM LINE
- FRANCHISE
- DRILL HOLE
- GOLD GRADE g/tm
- 1000 GOLD GRADE g/tm
- 5000 GOLD GRADE g/tm
- 10000 GOLD GRADE g/tm
- ROAD OR PATH
- ROCK CONTOUR WITHIN 200 METERS
- TRAIL
- QUARTZ VEIN
- COLLATION

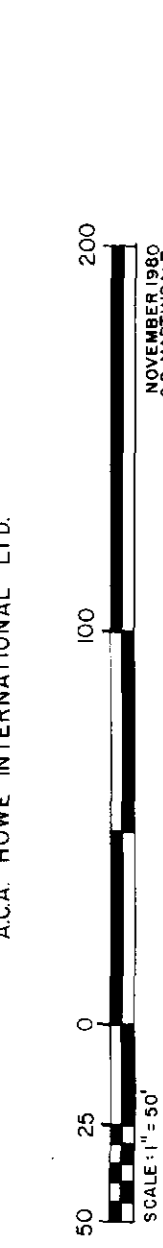
52T/04SE-0019-#13

ZONE 3

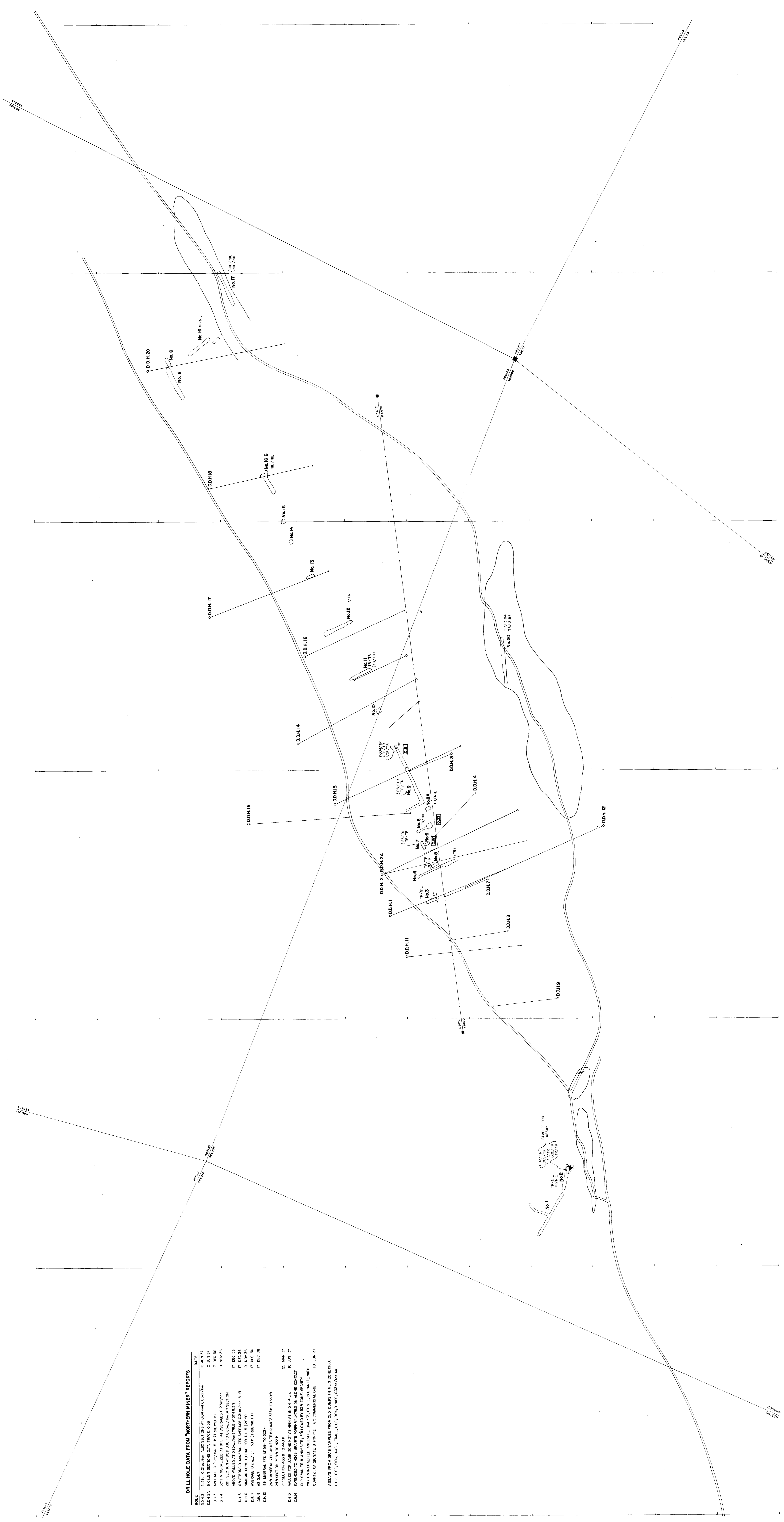
ALKENORE-BUFFALO

GOLDWINN RESOURCES

ALCA NORTHERN INTERNATIONAL LTD.



3786.dwg



DRILL HOLE DATA FROM "NORTHERN MINER" REPORTS

HOLE	DATE	DEPTH (m)	REMARKS
DDH 1	1977	100	...
DDH 2	1977	100	...
DDH 3	1977	100	...
DDH 4	1977	100	...
DDH 5	1977	100	...
DDH 6	1977	100	...
DDH 7	1977	100	...
DDH 8	1977	100	...
DDH 9	1977	100	...
DDH 10	1977	100	...
DDH 11	1977	100	...
DDH 12	1977	100	...
DDH 13	1977	100	...
DDH 14	1977	100	...
DDH 15	1977	100	...
DDH 16	1977	100	...
DDH 17	1977	100	...
DDH 18	1977	100	...
DDH 19	1977	100	...
DDH 20	1977	100	...
DDH 21	1977	100	...
DDH 22	1977	100	...
DDH 23	1977	100	...
DDH 24	1977	100	...
DDH 25	1977	100	...
DDH 26	1977	100	...
DDH 27	1977	100	...
DDH 28	1977	100	...
DDH 29	1977	100	...
DDH 30	1977	100	...



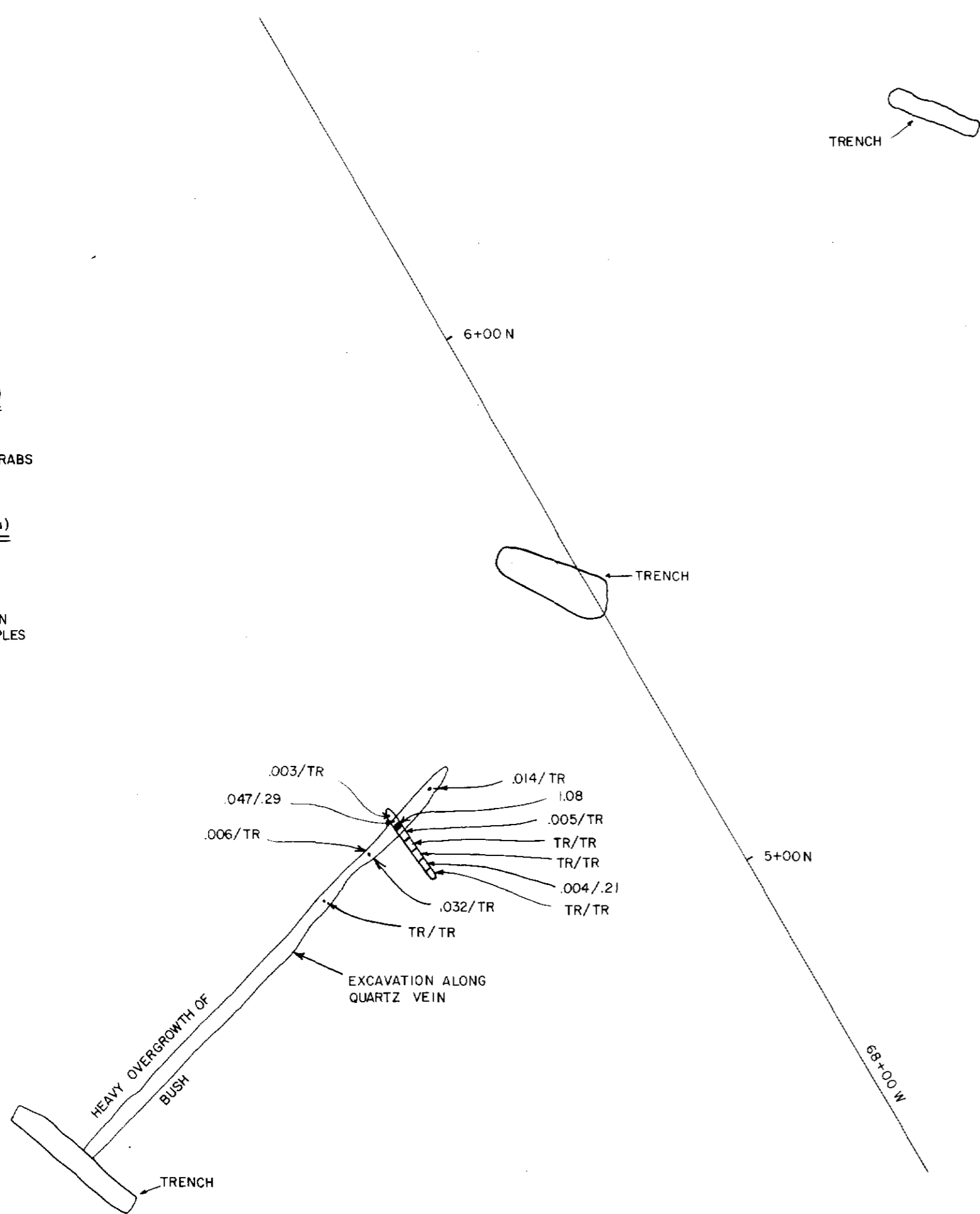
350

1959 ASSAY RESULTS (Au)

2.70 oz/ton
 7.58 " SURFACE GRABS
 0.24 "
 0.28 "

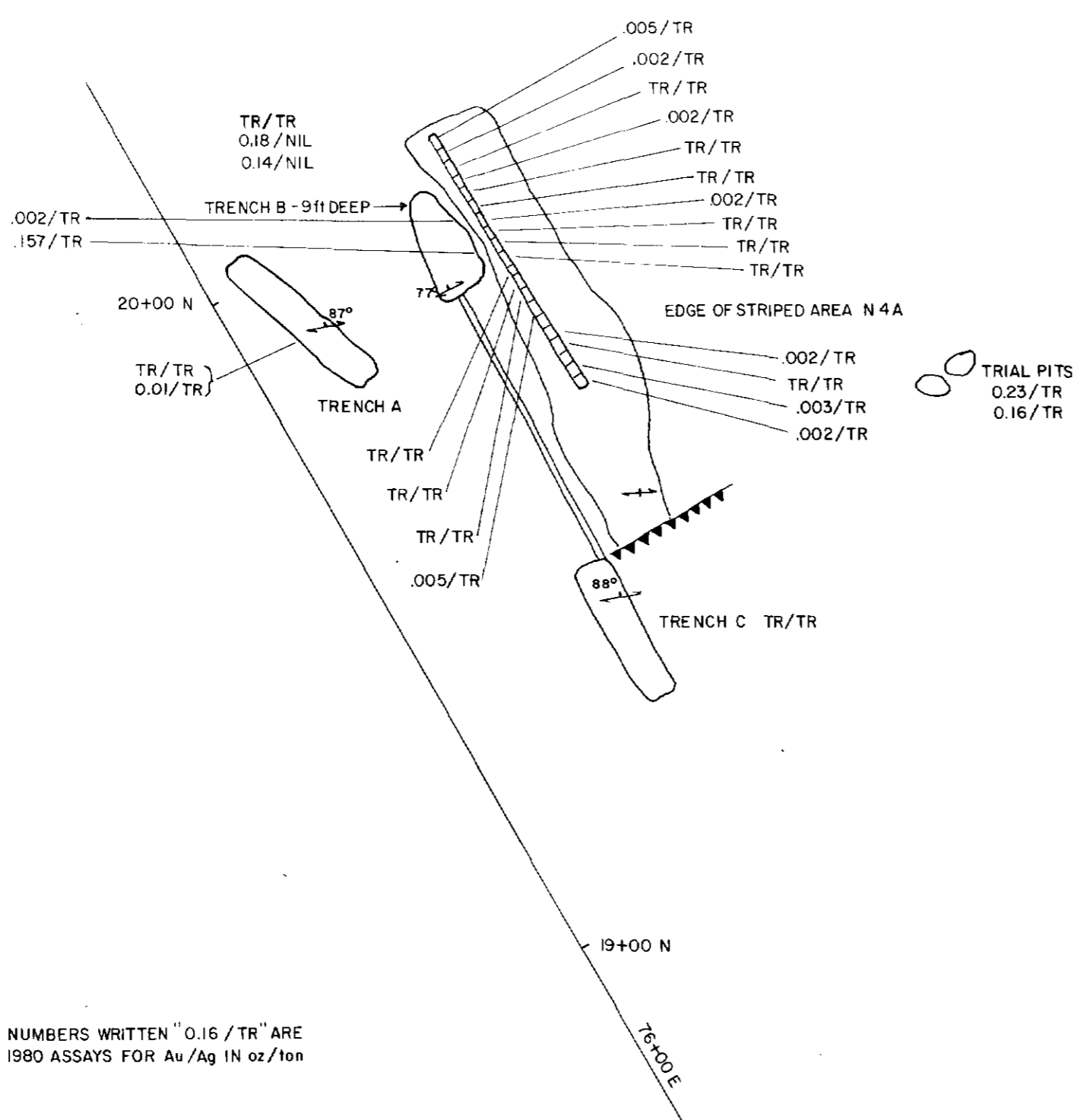
1960 ASSAY RESULTS (Au)

0.01 oz/ton
 0.04 "
 0.04 "
 1.61 " CLEAN
 0.20 " SAMPLES
 0.06 "
 0.04 "
 0.18 "



ZONE 9

ZONE 10



NOTE: NUMBERS WRITTEN "0.16/TR" ARE
 1980 ASSAYS FOR Au/Ag IN oz/ton



J. J. [Signature]

52J/04SE-0019-#14
 ZONE 9 & ZONE 10

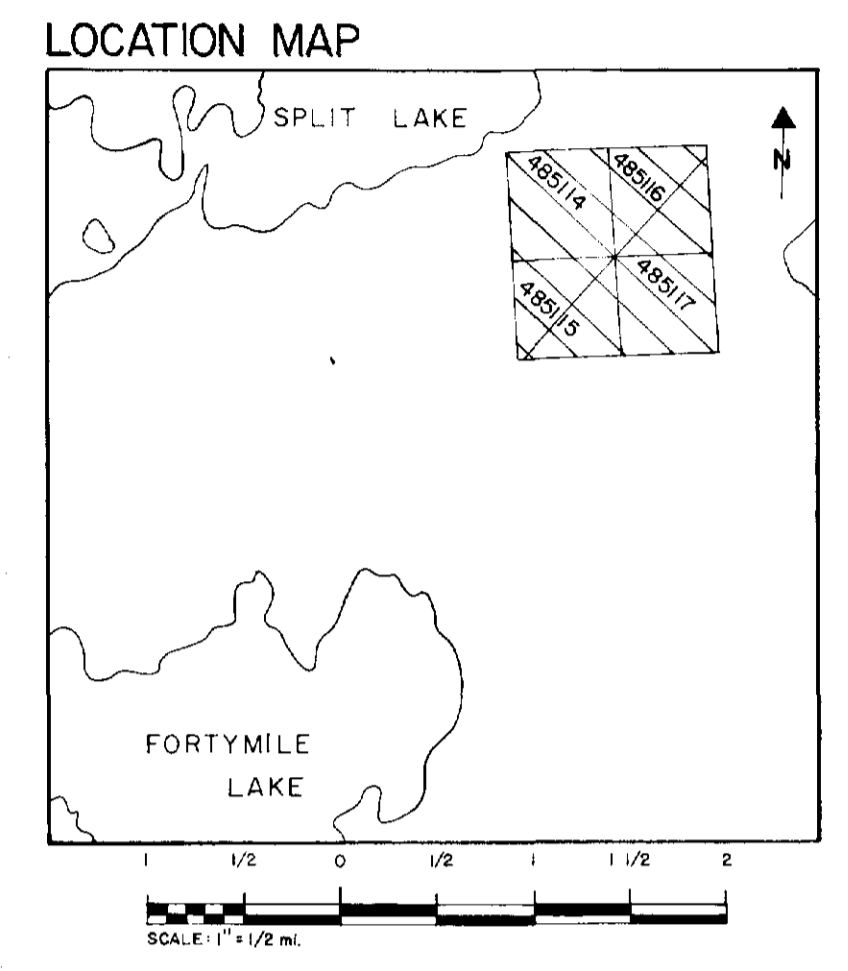
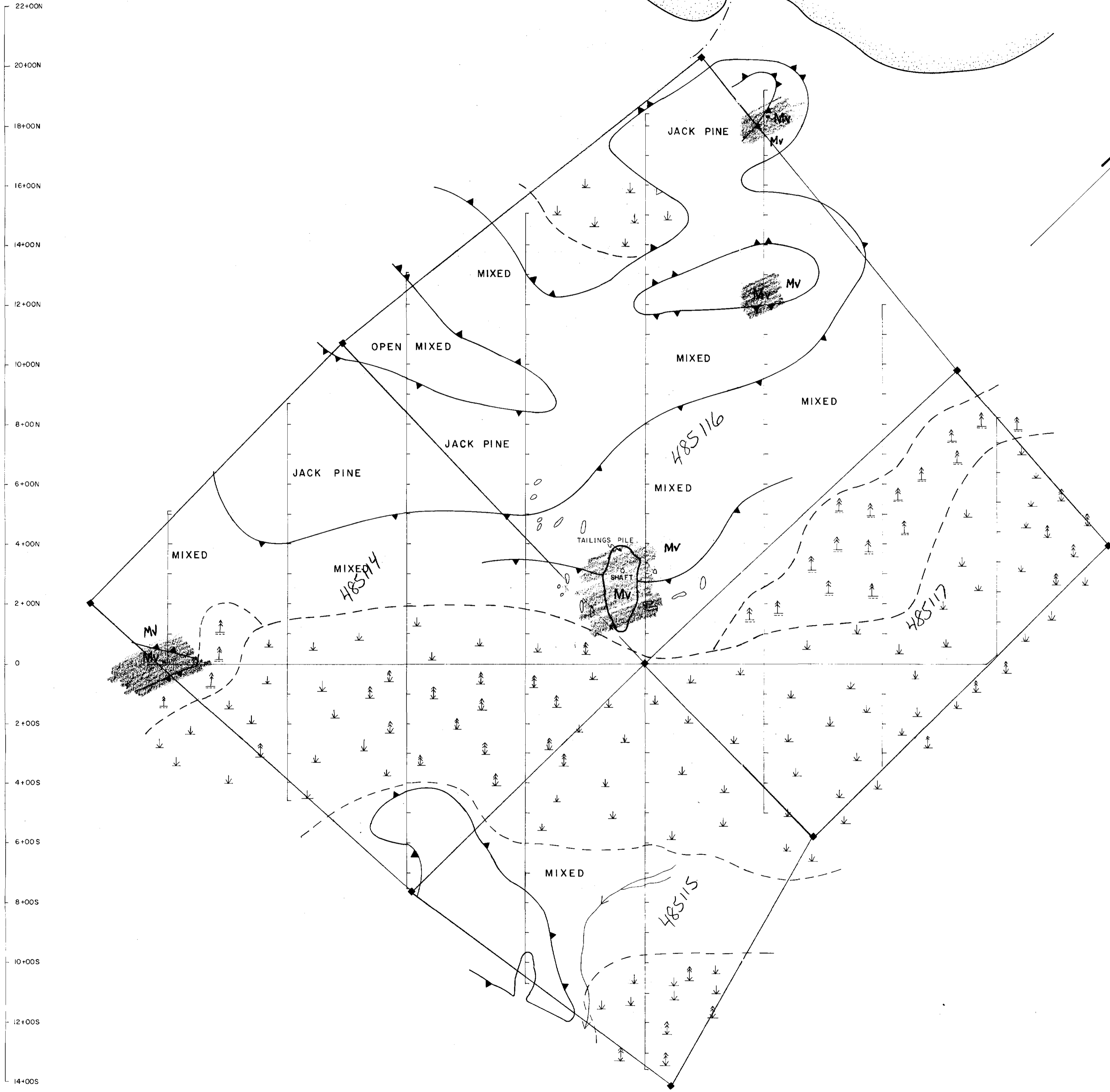
OF
 ALKENORE-BUFFALO

FOR
 GOLDWINN RESOURCES

BY
 A.C.A. HOWE INTERNATIONAL LTD.



SPLIT LAKE
(EAST ARM)



- LEGEND**
- Alder Swamp - Speckled Alder and some small Spruce and White Cedar
 - Spruce Swamp - Black Spruce, White Spruce, White Cedar Balsam Fir and Alders
 - Tall Spruce, Pine and Fir but with Water-logged Ground
 - Dry Ground - Dominant Vegetation Shown
 - Gentle Slope
 - Moderate Slope
 - Steep Slope
 - Stream with Direction of Flow
 - Claim Post
 - Lake Shore
 - Geological Contact (approximate)
 - Exposure - Metavolcanics

W. Hill

S2T/04SE-009-#15

**TOPOGRAPHIC &
GEOLOGICAL MAP**

OF

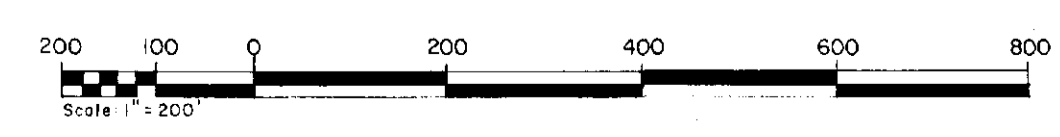
SPLIT LAKE CLAIMS

FOR

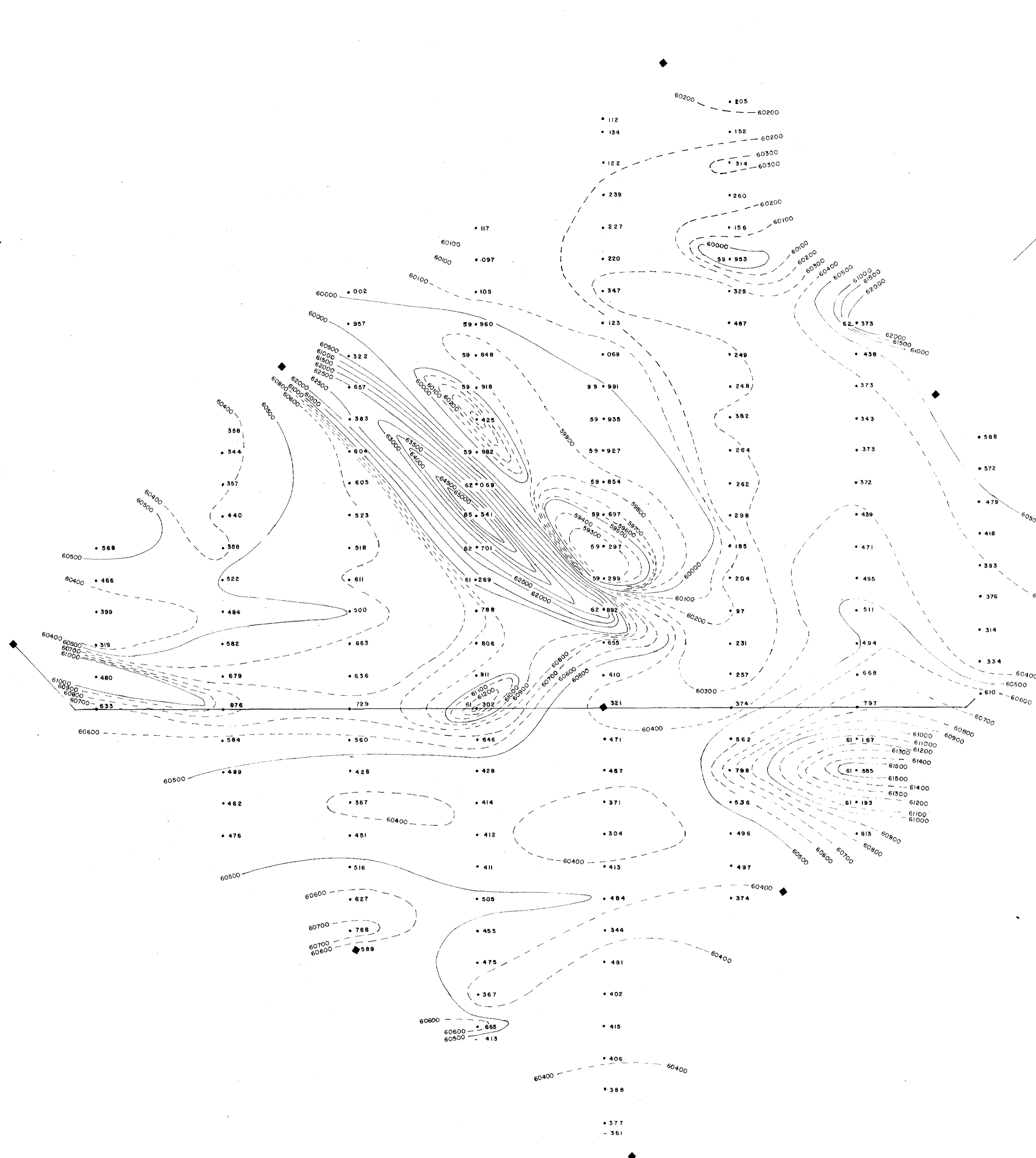
GOLDWINN RESOURCES

BY

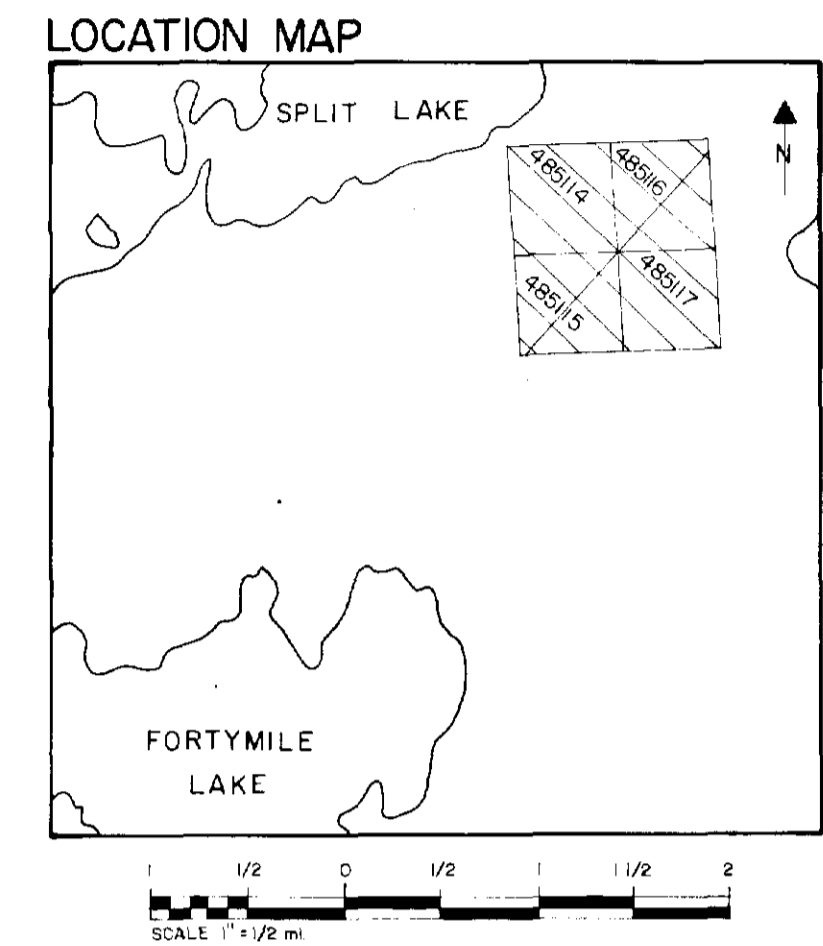
ACA HOWE INTERNATIONAL LTD.



22+00N
20+00N
18+00N
16+00N
14+00N
12+00N
10+00N
8+00N
6+00N
4+00N
2+00N
0
2+00S
4+00S
6+00S
8+00S
10+00S
12+00S
14+00S



W 12+00W 8+00W 4+00W 0 4+00E 8+00E 12+00E



LEGEND

◆ Claim Post

52T/04SE-0019-#16

MAGNETOMETER SURVEY

CONTOUR INTERVAL — 500 GAMMA, --- 100 GAMMA

OF

SPLIT LAKE CLAIMS

FOR

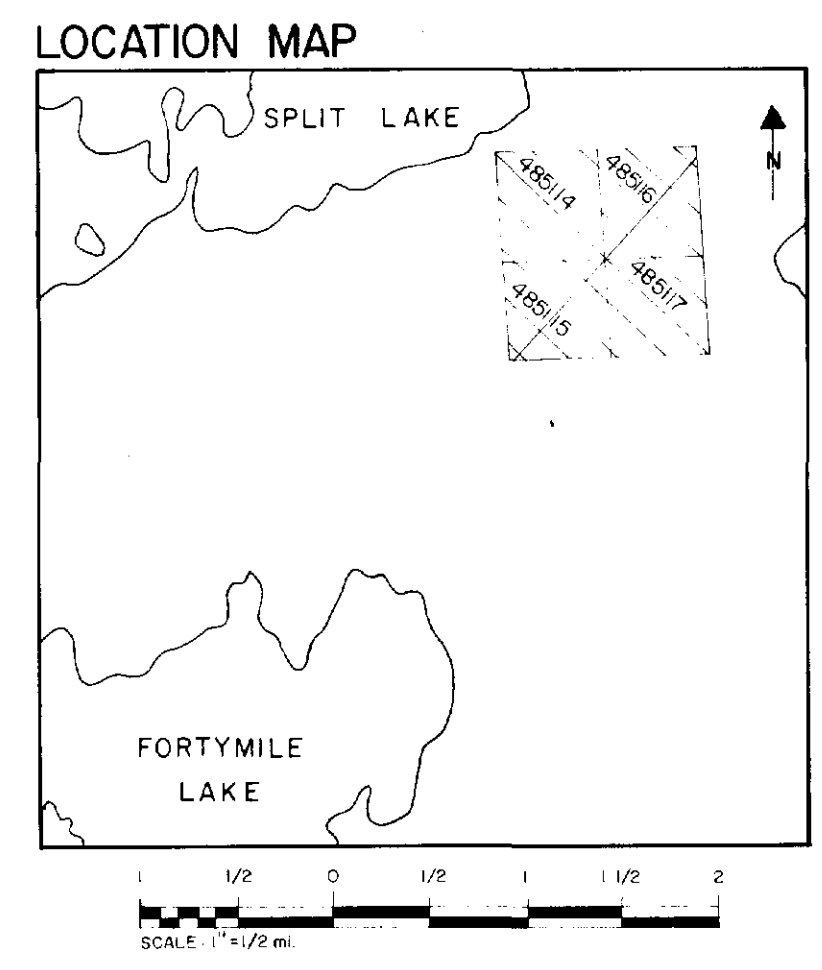
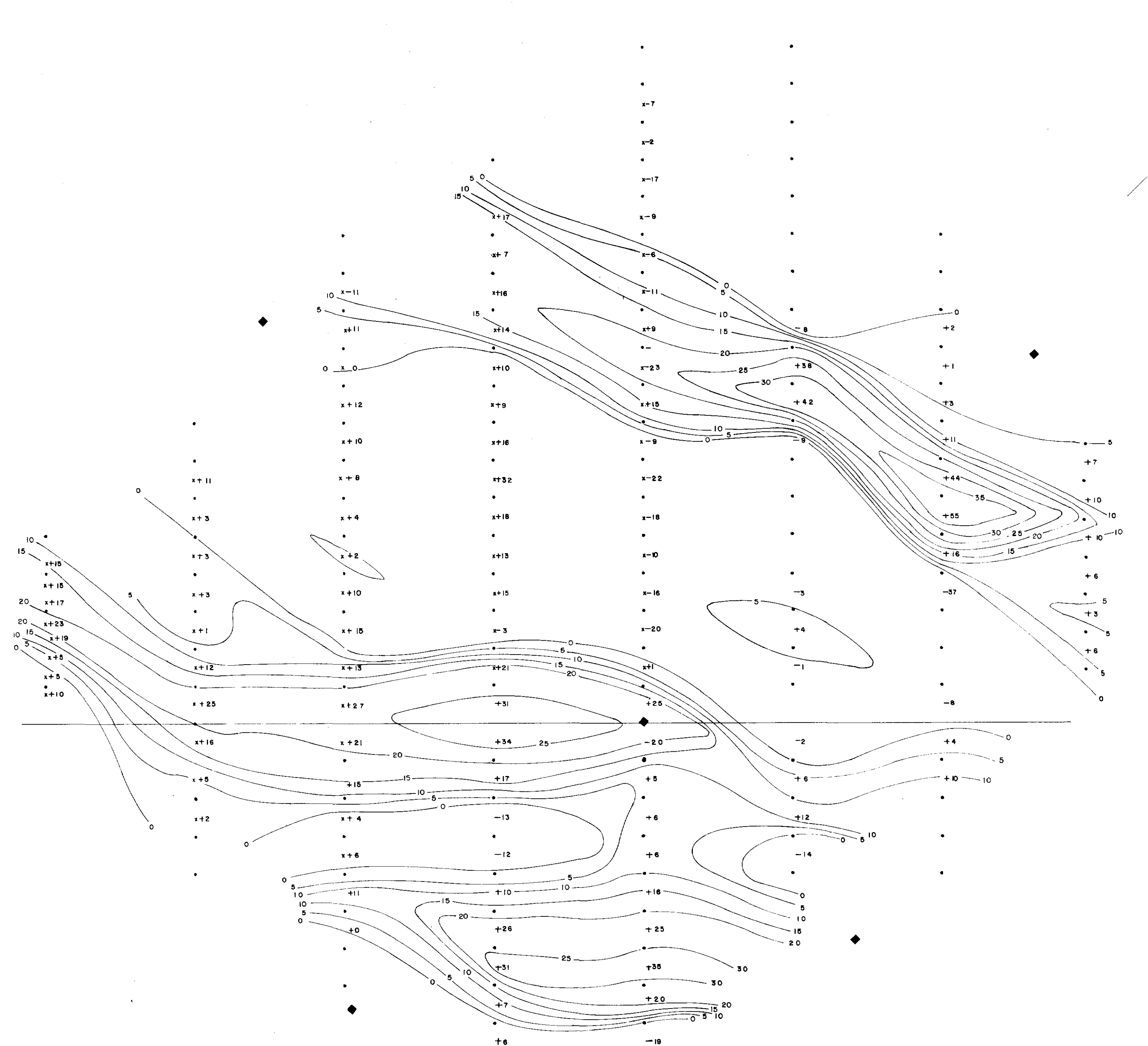
GOLDWINN RESOURCES

BY

ACA HOWE INTERNATIONAL LTD.



22+00N
20+00N
18+00N
16+00N
14+00N
12+00N
10+00N
8+00N
6+00N
4+00N
2+00N
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4+00S
6+00S
8+00S
10+00S
12+00S
14+00S



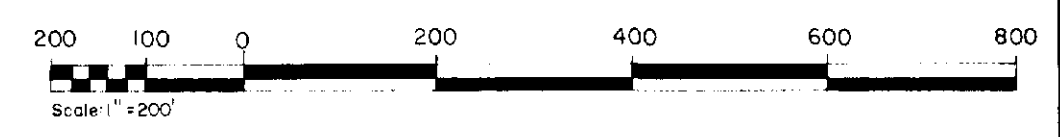
LEGEND

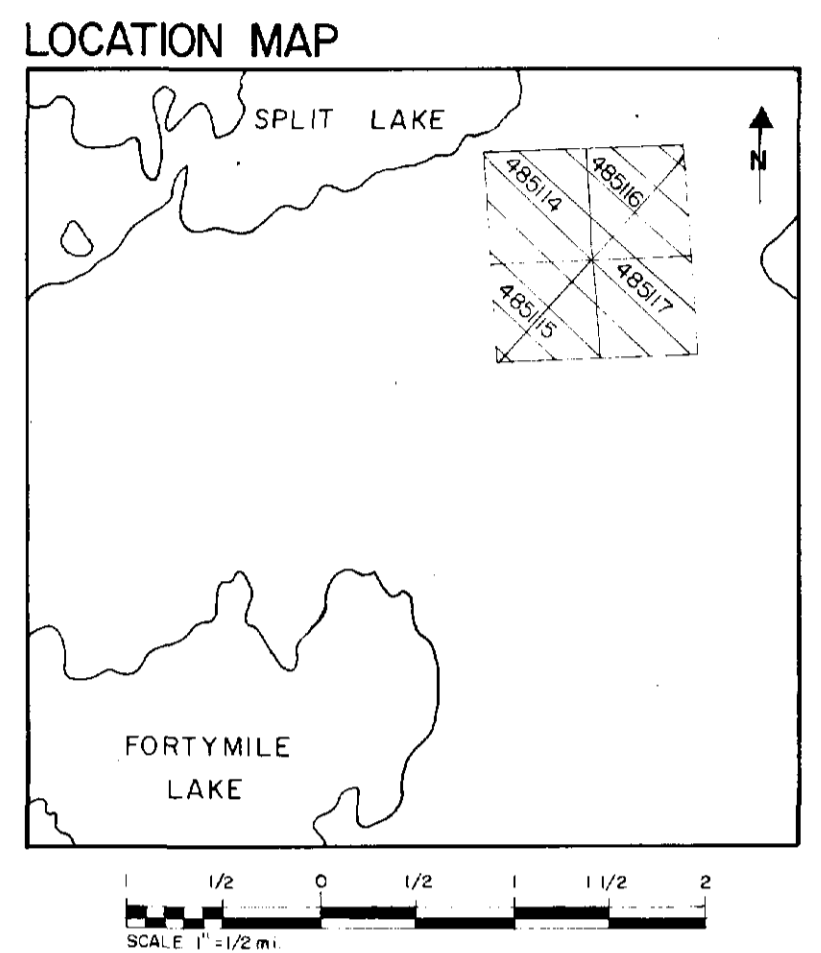
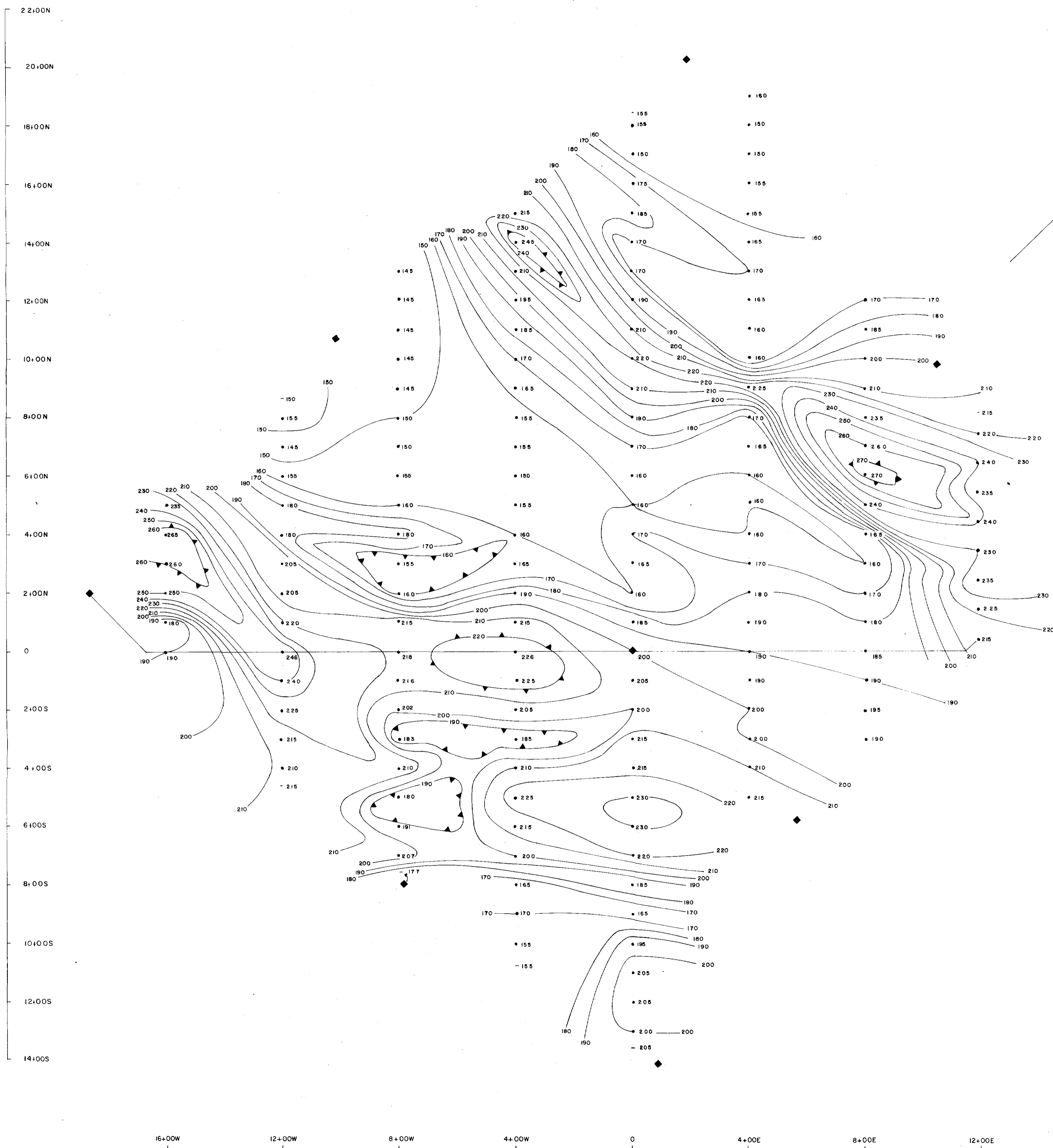
◆ Claim Post

52J/04SE-0019*17
FRASER TRANSFORMATION

OF
RADEM DIP VALUES
CONTOUR INTERVAL - 5 UNITS 0-20, 10 UNITS >20
OF
SPLIT LAKE CLAIMS
FOR
GOLDWINN RESOURCES
BY
A.C.A. HOWE INTERNATIONAL LTD.

16+00W 12+00W 8+00W 4+00W 0 4+00E 8+00E 12+00E





LEGEND

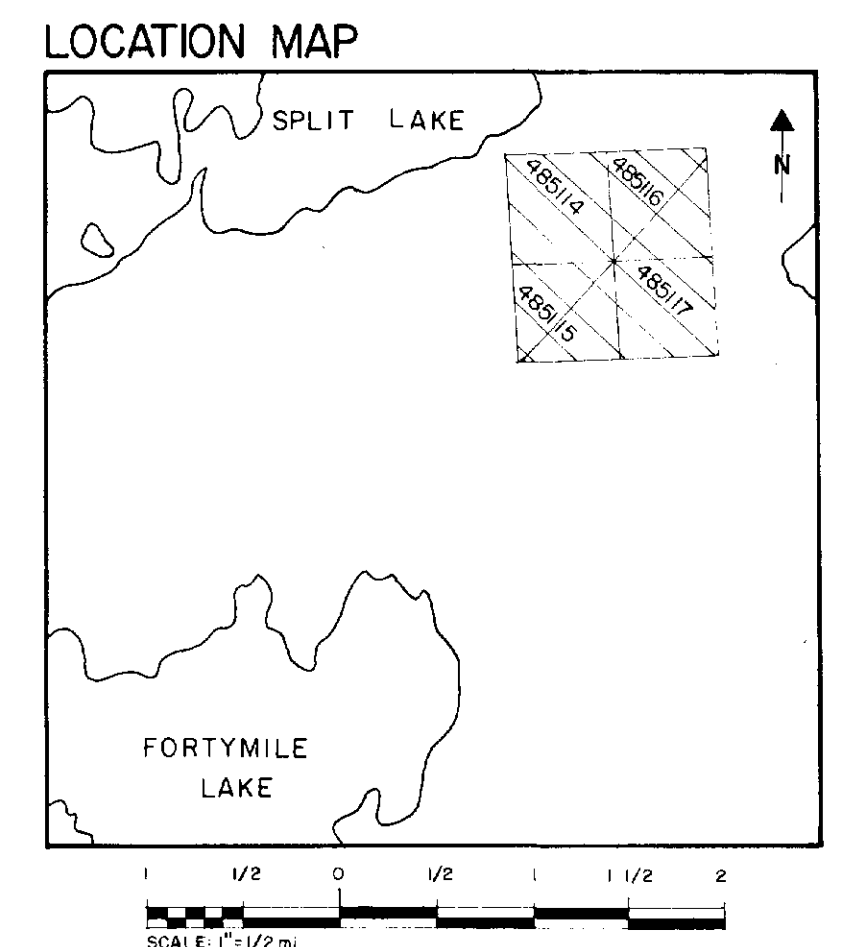
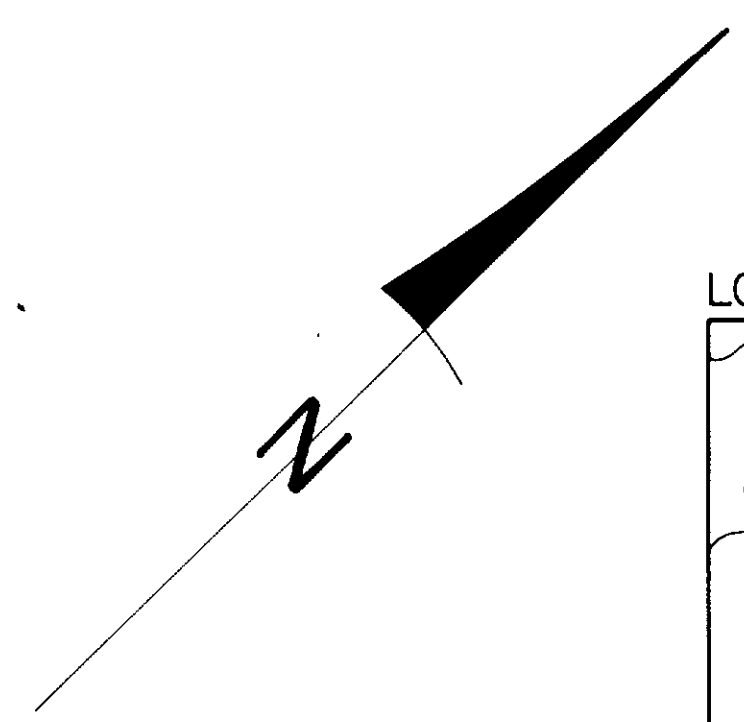
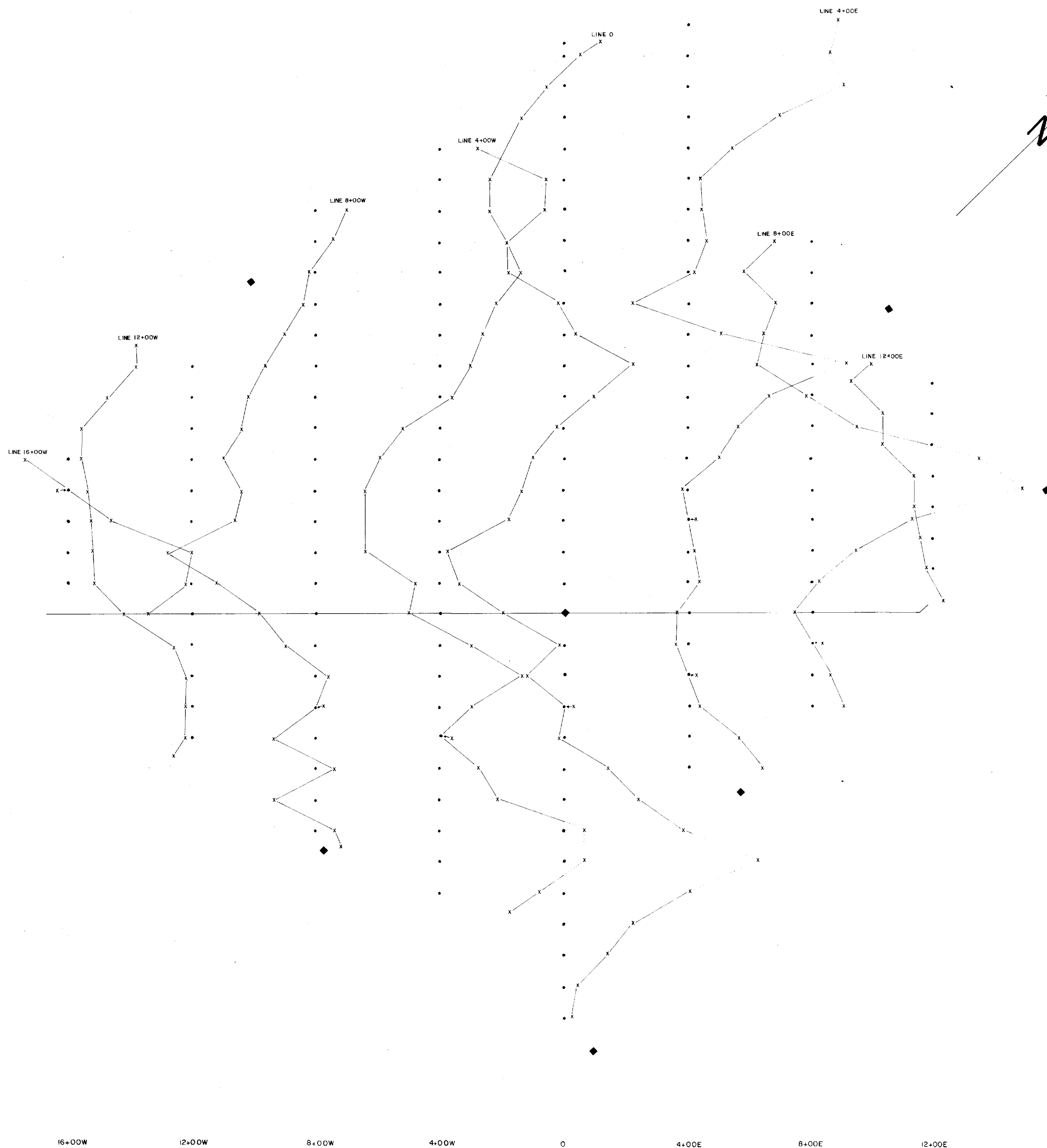
◆ Claim Post

J. Miller

52T/04SE-0019-#18
RADEM-FIELD STRENGTH
 CONTOUR INTERVAL 10%
 OF
SPLIT LAKE CLAIMS
 FOR
GOLDWINN RESOURCES
 BY
ACA. HOWE INTERNATIONAL LTD.



22+00N
20+00N
18+00N
16+00N
14+00N
12+00N
10+00N
8+00N
6+00N
4+00N
2+00N
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4+00S
6+00S
8+00S
10+00S
12+00S
14+00S

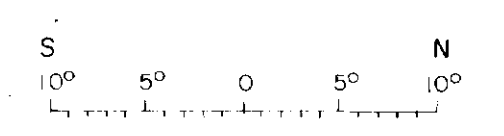


LEGEND

◆ Claim Post

52-T/04SE-0019-#19

RADEM DIP ANGLES



OF
SPLIT LAKE CLAIMS

FOR
GOLDWINN RESOURCES

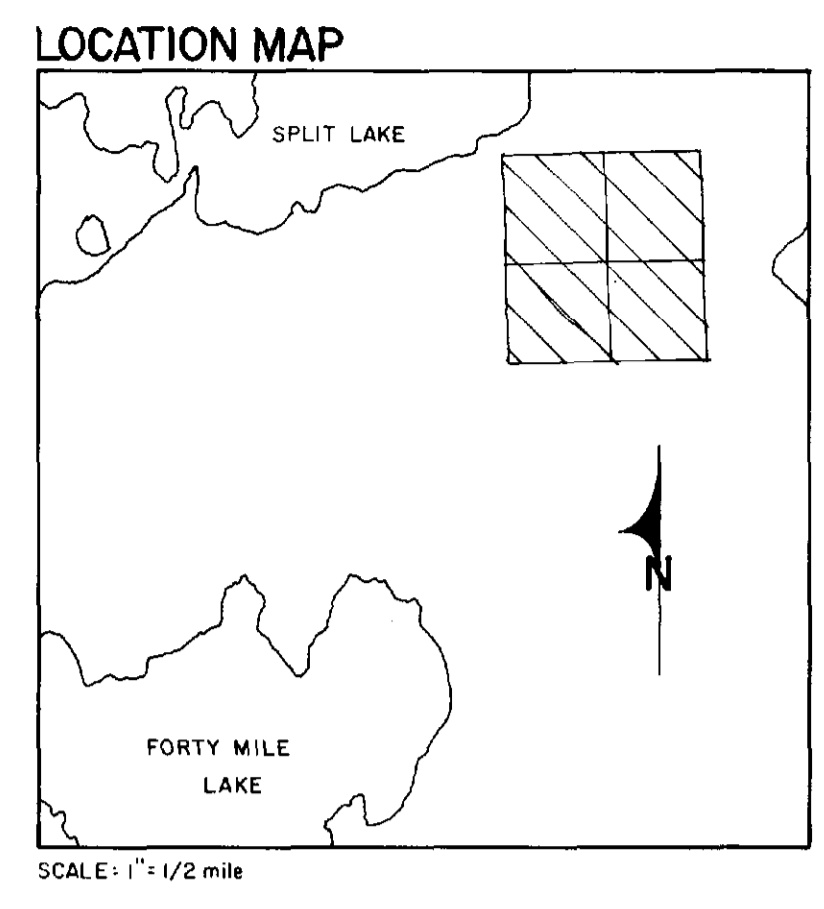
BY
ACA HOWE INTERNATIONAL LTD.

16+00W 12+00W 8+00W 4+00W 0 4+00E 8+00E 12+00E



16+00N
14+00N
12+00N
10+00N
8+00N
6+00N
4+00N
2+00N
0+00
2+00S
4+00S
6+00S
8+00S
10+00S
12+00S
14+00S

9006	110, Cl, Cl	9007	96, Cl, Z	9008	60, Cl, Cl	9009	20, Cl, Cl	9010	14, Cl, NH	9011	16, Cl, NH	9012	28, $Cl, 1$	9013	24, $Cl, 1$	9014	64, Cl, Cl	9015	18, Cl, Cl	9016	42, Cl, Cl	9017	86, Cl, Cl	9018	36, $Cl, 1$	9019	78, Cl, Cl	9020	24, Cl, Cl	9021	24, Cl, Cl	9022	120, Cl, Cl	9023	22, $Cl, 1$	9024	20, $Cl, 1$	9025	96, $Cl, 1$	9026	20, Cl, Cl	9027	54, $Cl, 1$	9028	34, Cl, Cl	9029	36, Cl, Z	9030	32, Cl, Z	9031	40, $Cl, 1$	9032	32, Cl, Z	9033	26, Cl, Z	9034	24, Cl, Cl	9035	96, Cl, Cl	9036	40, Cl, Cl	9037	22, Cl, Cl	9038	22, Cl, Cl	9039	26, Cl, Z	9040	26, Cl, Z	9041	62, Cl, Cl	9042	12, Cl, NH	9043	18, Cl, NH	9044	18, Cl, NH	9045	28, Cl, Cl	9046	18, Cl, Cl	9047	16, Cl, Z	9048	24, Cl, Cl	9049	30, Cl, Z	9050	30, Cl, Z	9051	120, Cl, Cl	9052	160, Cl, Z	9053	64, Cl, Cl	9054	88, Cl, Cl	9055	36, Cl, Cl	9056	32, Cl, Z	9057	32, Cl, Z	9058	22, Cl, Cl	9059	22, Cl, Cl	9060	22, Cl, Cl	9061	10, Cl, Cl	9062	18, Cl, NH	9063	8, Cl, NH	9064	12, Cl, Cl	9065	26, Cl, Z	9066	18, Cl, Cl	9067	16, Cl, Z	9068	24, Cl, Cl	9069	30, Cl, Z	9070	10, Cl, Z	9071	24, Cl, Cl	9072	10, Cl, Cl	9073	14, Cl, Z	9074	2, Cl, Cl	9075	14, Cl, Cl	9076	4, Cl, NH	9077	6, Cl, NH	9078	30, Cl, Cl	9079	26, Cl, Cl	9080	22, Cl, Cl	9081	14, Cl, Cl	9082	32, $Cl, 1$	9083	38, Cl, Cl	9084	24, Cl, Cl	9085	10, $Cl, 5$	9086	30, $Cl, 12$	9087	18, $Cl, 55$	9088	10, Cl, NH	9089	14, Cl, NH	9090	10, Cl, NH	9091	10, Cl, NH	9092	6, Cl, NH	9093	6, Cl, NH	9094	30, Cl, Cl	9095	10, Cl, Cl	9096	8, Cl, NH	9097	14, Cl, Cl	9098	2, Cl, NH	9099	8, Cl, NH	9100	34, Cl, Cl	9101	16, Cl, Cl	9102	10, Cl, Z	9103	26, Cl, Cl	9104	24, Cl, NH	9105	24, Cl, NH	9106	24, Cl, NH	9107	24, Cl, NH	9108	24, Cl, NH	9109	24, Cl, NH	9110	24, Cl, NH	9111	24, Cl, NH	9112	24, Cl, NH	9113	24, Cl, NH	9114	24, Cl, NH	9115	24, Cl, NH	9116	24, Cl, NH	9117	24, Cl, NH	9118	24, Cl, NH	9119	24, Cl, NH	9120	24, Cl, NH
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LEGEND

- 75, (10), 2 SOIL SAMPLE SITE WITH VALUES FOR LEAD in ppm / GOLD in ppb / SILVER in ppm
- NOTES: LEAD VALUES UNDER 50ppm ARE NOT LISTED
SILVER VALUES UNDER 2ppm ARE NOT LISTED
GOLD VALUES UNDER 10ppb ARE NOT LISTED

527/04SE-0019-20

GEOCHEMICAL SURVEY
LEAD-SILVER-GOLD

OF
SPLIT LAKE CLAIM GROUP
FOR
GOLDWINN RESOURCES
BY
A.C.A HOWE INTERNATIONAL



29286 chm