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REPORT ON THE
AIRBORNE GEOPHYSICAL SURVEYS
ON THE PROPERTY OF
J. FORBES, R. CHRICHTON
R. GAGNON AND M. THURSTON
BADEN TOWNSHIP, ONTARIO

RECEIVED

AUG 26 1988

MINING LANDS SECTION

BY

H. FERDERBER GEOPHYSICS LTD.

July, 1988
Val d'Or, Quebec

G.N. Henriksen, B.Sc.
Geologist

2.10136

REPORT ON THE
AIRBORNE GEOPHYSICAL SURVEYS
ON THE PROPERTIES OF
J. FORBES, R. CHRICHTON, R. GAGNON AND M. THURSTON
BADEN TOWNSHIP, ONTARIO

INTRODUCTION

In July 1988 an airborne geophysical survey was carried out on the properties of J. Forbes, R. Chrichton, R. Gagnon and M. Thurston in Baden Township, Ontario. Magnetic and VLF-electromagnetic data was collected by the airborne division of H. Ferderber Geophysics Ltd. The survey was flown from a base at Timmins, Ontario. A total of 125.1 miles of data was collected.

The magnetic survey provides information which helps define underlying geological structures and identifies any potential economic concentrations from variations in accessory magnetic minerals. The VLF-electromagnetic survey outlines conductive zones which may represent shear zones and/or metallic sulphide deposits containing gold mineralization.

PROPERTY DESCRIPTION, LOCATION AND ACCESS

The property is comprised of 103 unpatented mining claims as a single block in the west half of Baden Township, Larder Lake Mining Division, Ontario. They cover approximately 1648 hectares. The block consists of four claim groups. They are held by Robert Gagnon, Marty Thurston, Ron Chrichton and Jim Forbes as groups of 40, 36, 14 and 13 claims covering about 640, 576, 224 and 208 hectares, respectively. The claims are registered with the Ontario Mining Recorder at Kirkland Lake and are listed under the claim holders names in Appendix I.

The property is located approximately 16 km (10 miles) northwest of the town of Matachewan, 60 km (36 miles) southeast of the city of Timmins and 57 km (34 miles) west-southwest of the town of Kirkland Lake. A road from Matachewan to Radisson Lake passes within 2.5 km (1.5 miles) of the eastern boundary near the north east corner of the property. Several skidder bush roads are located east of the property and on the southern part of the property. Access can also be obtained by the Matachewan Lake-Montreal River System which passes through the eastern part of the property. An abandoned Ontario Hydro line trends north-northwest traversing the eastern area of the claim block.

Most of the claim group is forested. Numerous lakes are located on the property, the biggest being Matachewan Lake. Swamps are situated in the north central and south central parts of the property and along the north part of the western boundary of the claim block. Ontario Division of Mines Map P. 900 shows that the overburden cover is thin. The relief is moderate with numerous steep hills located on the property.

Supplies, service and manpower are readily available in the Matachewan-Timmins-Kirkland Lake area.

GEOLOGY

The property is located near the western end of the Abitibi Greenstone Belt of the Superior Province of the Canadian Shield. The Abitibi Greenstone Belt extends for approximately 580 km in an east-west direction from Timmins to Chibougamau. It is host to numerous gold and basemetal deposits and includes the Timmins, Kirkland Lake, Noranda, Val d'Or and Chibougamau mining camps.

The Abitibi Greenstone Belt is comprised of a complex assemblage of interbedded volcanic and sedimentary rocks intruded by a variety of rocks from ultrabasic to granitic in composition. The rocks are Archean in age and have been metamorphosed to a greenschist facies. Numerous late Precambrian diabase dykes cut formations of the belt. The rocks generally strike east-west, have a vertical dip and are highly folded and faulted. Geological interpretation of the Abitibi Volcanic Belt is complicated by both the side scattering of outcrops and the complex structural relationships.

The Ontario Department of Mines geological map 2109 with accompanying geological report 51, Geology of the Matachewan Area by H.L. Lovell, 1967 and compilation map 2205 Timmins-Kirkland Lake are used to indicate the geology in the area of the property.

90% of the property is underlain by intermediate and mafic metavolcanics as mafic flows and pyroclastic rocks. Basalt, andesite, andesite porphyry, tuff and agglomerate have been observed in outcrop on the property. An outcrop in the southwest corner of the claim block is noted as carbonatized, amygdoloidal and bleached, silicified, sericitized volcanic rocks.

Felsic intrusive rocks underly about 10% of the property. Granitic outcrops have been noted near the north boundary of the claim block. Syenite porphyry, coarse-grained quartz diorite, and diorite are thought to underlie the southeast corner of the claim block.

A north-northwest trending synclinal axes traverses the south part of the property. The Mistinikon Lake Fault trends north-south, has a sinistral displacement and traverses the east part of the property in the vicinity of Mistinikon Lake. The Montreal River-Whiskeyjack Creek fault trends northwest coincident with Nokomis and Matachewan Lakes traversing the northeast part of the claim block.

In the northwest corner of the claim block pillow lavas indicate facing is to the southwest and a northwestward striking 80 degree southwest dipping shear zone has been noted. In the south part of property facing is shown as southeastward and a few shear zones are noted striking northwestward dipping between 80° southwest and 70° northeast.

The Matachewan area was first prospected for gold in 1909. Interest was heightened in the 1930's and between 1934 and 1957 two mines (The Matachewan Consolidated Mines Ltd. and Young-Davidson Mines Ltd.), located about 16 miles south of the property, produced 956,117 oz. of gold.

The Ontario Department of Mines, report 51 and maps 2109 and P. 900 and the Ontario Geological Survey Mineral Deposits Circular 18 describe the work performed in Baden Township.

A shaft has been sunk in the south part of the property in the vicinity of claim 1001460.

Most of the work was done when the property was owned by Arbade Gold Mines Limited. W.S. Dyer examined it at the time. Part of his description follows:

In the west central part of Baden Township several dykes of fine-grained pink syenite, often porphyritic, intruded the Keewatin tuffs. In places the syenite is traversed by a stockwork of mineralized quartz veins, somewhat like the porphyry on the Young-Davidson property, and at such places assays of gold up to \$3.00 (0.15 ounces) of gold have been reported. On the property of Arbade Gold Mines, Limited, a series of such dykes, striking northwest, can be followed for over one and a half miles. A section across the strike of the dykes just west of the shaft showed at least 10 of them, including some of basic syenite, in a width of 400 feet.

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In 1948 W.S. Savage, resident geologist for the Ontario Department of Mines at Kirkland Lake, examined the property and described it as follows:

An old trench extending 450 feet on a bearing N. 70°W. from the shaft has been cleaned out and exposed the "vein" consists of a stockwork of quartz stringers over widths up to six feet in fine-grained syenite, lying along the north side of a shear, which dips vertically or steeply to the south. Pyrite mineralization was noted, with which the gold is said to be associated, and visible gold has also been reported.

In 1931 twelve holes totalling 2,000 feet of core were drilled by Arno Mines Limited at intervals along a distance of 2,200 feet in the syenite porphyry. Most of the assays from sections of the porphyry contained gold, with values ranging from a trace to 0.03 ounces per ton except for one assay that was 0.10 ounces of gold per ton.

In 1963 selected samples were taken by H.L. Lovell of several types of rock from the dump along the trench. Assays ranged from trace to 0.03 oz/ton and one sample of syenite containing quartz stringers gave an assay of 0.49 oz/ton gold.

About three quarters of a mile east of the northeast corner of the property, 650 feet from the head of Matachewan Lake a 308 foot shaft was sunk by Thesaurus Gold Mines Ltd. Between 1919 and 1923 drifts were established at the 100 and 300 foot levels, totally 330 feet of lateral development. The shaft was dewatered and resampled in 1934. Andesite tuff and hornblende-mica granite cut by north striking diabase dykes were encountered. Gold was found in three quartz veins and surrounding alteration zones. Grab samples collected in 1963 from the dump produced gold assays of trace to 0.14 oz/ton. Two 1959 drill logs show assays of 0.3 to 0.6 oz Au/ton over narrow widths.

In 1948 E.J. Thompson drilled one hole near the northwest shore of Matachewan Lake for a depth of 160 feet, no assays were reported. The Baden Creek Occurrence drilled in 1959 is located on the east side of the property on the east shore of Matachewan Lake. Two holes were drilled totaling 260 feet intersecting a quartz vein in syenite prophyry. An assay averaging 0.06 oz/ton over 2 feet was reported. Molybdenite was also noted in this area.

In 1960 to 1966 Richore Gold Mines Ltd. outlined a gold occurrence 0.8 km north of the east end of Belt Lake. A sheared fractured zone, striking northeast, containing quartz-carbonate stringers and minor pyrite, 300 feet long and 3 feet wide, was delineated in metavolcanics and granite. Grab samples collected in 1963 from the dump assayed 0.10 to 0.27 oz Au/ton. A total of 1,498 feet was drilled, intersecting a few quartz stringers. The best assays obtained were 0.01.

A gold showing lies immediately south of the claim block near claim L 981281. It is described as a quartz vein that strikes N 40°E and dips steeply northwest has been blasted for length of 90 feet. The quartz vein is in the contact zone between massive volcanic rocks (possibly tuffs) on the west and syenite porphyry on the east. A diabase dyke is 60 feet east of the contact. Hollinger officials reported over a length of 90 feet and a width of 11 inches, values of \$30.00 (1.50 ounces) in gold per ton were found. The ore body was also located in drilling. At both ends of the 90 foot section the fracture continues farther, but little quartz and no values were found. The area of 35 feet in diameter, surrounding the quartz stringers in the syenite porphyry was stripped of overburden. Up to a maximum of 1.5 feet on either side of quartz stringers, the wallrock has been reddened. As in the gold ore at Kirkland Lake, the red colour is probably caused by hematite contributed from the hydrothermal solutions that introduced the quartz. A grab sample of red syenite porphyry containing quartz stringers was taken by H.L. Lovell. It gave an assay of 0.14 ounces of gold per ton. A loose sample of vein quartz containing a small amount of chalcopyrite and pyrite gave an assay of 8.41 ounces of gold and 9.79 ounces of silver per ton, Geological Report 51, Geology of the Matchewan Area by H. L. Lovell, p. 29.

INSTRUMENTATION AND SURVEY METHODS

The survey was completed using a 1972 Cessna 172, fixed-wing aircraft, Registration CF-EWK, owned and operated by H. Ferderber Geophysics Ltd. The pilot and navigator/operator were Y. Saucier and F. Longpre, respectively, of Val d'Or. Geophysical sensors were mounted in modified wing tips. The geophysical, navigation and data acquisition systems are described below.

Magnetometer

The magnetometer used was a GEM Systems GSM-11, high sensitivity airborne proton (Overhauser) magnetometer. The instrument continuously measures the Earth's magnetic field at a 0.01 gamma sensitivity for 1 reading per second to 10 readings per second at a 0.1 gamma absolute accuracy. For the survey 4 readings per second at an accuracy of 0.04 gammas were read. The analog output is on 3 channels, from 1 to 10,000 gammas full scale.

VLF-EM System

A Herz Totem 2A VLF-EM system was used to measure the changes in the total field and in the vertical quadrature field on two frequencies simultaneously, with an accuracy of 1%. The primary transmitting stations were Cutler Maine, (NAA) frequency 24.0 KHz was employed for the survey.

Radar Altimeter

The ground clearance was measured with a King 10/10 A radar altimeter. The survey was flown at a mean clearance of 300 feet with the altimeter producing an accuracy of 5% (15 feet) at this altitude.

Tracking Camera and Video Centre

A RCA TC-200 colour video camera and Galaxy 200 video centre was used to record the flight path on standard VHS type video tapes. Manual fiducials were indicated on the picture frames for reference with the digital printout. Flight path recovery was aided using a Panasonic Colour Video Monitor-S1300 and Video Cassette Recorder AG-2500.

Data Aquisition System

A Picodas Group Inc. PDAS 1100 data aquisition system featuring seven analog inputs with two frequency inputs and external interfacing was used. A Termiflex Corp. ST/32 Keyboard control unit and Sharp Corp. LCD display unit is connected to the data aquisition system. At present this system stores the altimeter readings, VLF-1 inphase, VLF-1 quadrature, VLF-2 inphase, VLF-2 quadrature, magnetic field (coarse), magnetic field (fine), and the fourth difference (noise), and fiducials on a 3.5 inch floppy diskette. The data is then printed out in digital and profile form.

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The survey was conducted on north-south lines at an aircraft altitude of 300 feet. The lines were flown at spacings of 440 feet at a speed of approximately 90 miles per hour. Navigation was visual using airphoto mosaics, at a scale of one inch to 1320 feet; manual fiducials and video recording were used for the flight path recovery system as references.

DATA PRESENTATION

Flight lines, fiducial points and geophysical responses were reproduced from the airphoto mosaics and video tapes on maps at a scale of one inch to 1320 feet (1:15,840). Outline of the claim map is shown on each map sheet.

The aeromagnetic data was corrected for diurnal variations by using base lines as references. The data was then reduced to a base level of 58,000 gammas, contoured at 20 and 100 gamma intervals and presented on Map MG-1.

A base value was determined for the VLF-EM data and the change in the total field strength as a percentage of the base value was calculated. The values were plotted on Map EM-1. The positive values were contoured at intervals of 2%. The conductor axes were determined and numbered 1, 2, 3, etc. No priority was attached to the numbering system.

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SURVEY RESULTS AND INTERPRETATIONMagnetic Survey Map MG-1

A magnetic low anomalous area overlies the northern part of the property, along the northern boundary of the claim block. South of the low anomalous area lies a northwest trending magnetic high anomalous zone. The magnetic low area probably represents felsic intrusive rocks as indicated by geological map 2109. The magnetic high appears to represent intermediated and mafic metavolcanic. The gradient of the shoulders of the magnetic high anomalous zone suggest dip is to the southwest.

Southeast, along strike, of the assumed contact defined by the northern shoulder of the magnetic high in the north part of the property lies a magnetic low. This magnetic low situated in the northeast corner of the property may represent felsic intrusive rock, which suggests dextral movement of the Montreal River-Whiskeyjack Creek Fault, lying to the west. The Mistinikon Lake Fault also lying to the west of the magnetic low is indicated as having sinistral movement.

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A broad magnetic anomalous area having a relatively flat magnetic gradient covers the central and south part of the property. It contains four small isolated high anomalies having steep magnetic gradients and magnetic values up to and in excess of 500 gammas above background. The broad magnetic anomalous area is thought to represent intermediate metavolcanic as tuff, agglomerate, and carbonatized and amygdoloidal rocks. This area, characterized by a homogeneous distribution of magnetic minerals in the underlying rock, suggests the four magnetic high anomalies are good potential exploration targets.

The magnetic high anomaly situated in the extreme southern part of the property overlies as banded and massive tuffaceous rocks in the vicinity of a mafic syenite intrusive. Geology maps indicate the volcanics contain northwest trending shears. The intrusive contains the old Arno Mines Limited Shaft. The center of this anomaly appears to coincide with a northwest trending synclinal fold axes indicated on map 2109.

Two of the other magnetic high anomalies, located in the west central and south central parts of the property, do not overlie known outcrop. The fourth magnetic high anomaly located on the east central part of the property overlies a small outcrop indicated as basalt and/or andesite situated just west of the Mistinikon Lake Fault.

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VLF-Electromagnetic SurveyMap EM-1

Conductive zone 1, a short, northwest trending conductor is located in the northwest part of the property. It has a weak electromagnetic response and overlies the northern shoulder of a magnetic high in the vicinity of an assumed contact between granitic and intermediate to mafic metavolcanic rocks. Conductor 1 may represent a shear zone associated with a geological contact.

Conductive zone 2, a short , northwest trending conductor is located in the west central part of the property. It lies in an area having a relatively homogeneous distribution of magnetic minerals and overlies wet terrain. It appears to be the result of topography.

Conductive zone 3, a short, northwest trending conductor is situated in the central east part of the property. It overlies an old powerline and the edge of a lake in the vicinity of Mistinikon Lake Fault. Conductive zone 3 appears to be due to cultural effect and topography.

Conductive zone 4 is a long, discontinuous, west-northwest trending conductor located in the south part of the property. It lies north of the axes of an assumed synclinal structure and the western end is situated in the vicinity of an outcrop indicated as bleached, silicified, sericitized volcanic rock. It may represent a shear zone.

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Conductive zone 5, a short, east-west trending conductor is located in the extreme south of the property. It overlies a creek which suggest it is the result of topography.

CONCLUSIONS AND RECOMMENDATIONS

The airborne VLF-electromagnetic and magnetic surveys were successful in outlining possible shear zones and helping define the underlying geology of the R. Chrichton, R. Gagnon, J. Forbes and M. Thurston property in Baden Township, Ontario. Rocks of low magnetic susceptibility underlie the northern part of the property. These are probably felsic intrusive rocks as indicated by Map 2109. Rocks of higher magnetic content lie in contact with and to the south of the assumed felsic intrusive rocks. They are interpreted to be intermediate and mafic metavolcanics which strike west-northwest and dip moderately to steeply southwestward. The assumed felsic intrusive/metavolcanic contact appears to have a dextral displacement across the north-northwest trending Montreal-Whiskeyjack Creek Fault which traverses the northeast corner of the property.

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Rocks having a relatively homogeneous magnetic mineral content and distribution underly the central and south part of the property are probably mafic and intermediate metavolcanics. Four small isolated areas of rocks having high magnetic susceptibility in the broad zone of homogeneity are located in the southeast, south central, southwest and south parts of the property. These may be mafic metavolcanics having a higher concentration of magnetic mineral or could represent mafic syenitic intrusive rocks which have been noted elsewhere in the region.

Five conductive zones were outlined on by the VLF-electromagnetic survey. Conductive zones 1 and 4 appear to be bedrock conductors. Conductor 4 may represent a shear zone and conductor 1 may be a shear zone associated with a geological contact.

Further work is warranted on the property especially considering the numerous gold showings and previous mining operations in the area. The above mentioned conductors and the isolated magnetic high anomalies are good targets for further investigation.

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A program of ground geophysics should be undertaken. A total field magnetic and VLF-electromagnetic survey should be performed. Geophysical anomalies should then be tested by diamond drill.

Respectfully submitted,

H. FERDERBER GEOPHYSICS LTD.

Gordon
M
Henriksen

G.N. Henriksen, B.Sc.
Geologist

APPENDIX I - CLAIM LIST

ROBERT GAGNON

L 981564	L 981584
981565	981585
981566	981586
981567	981587
981568	981588
981569	981589
981570	981590
981571	981591
981572	981592
981573	981593
981574	981594
981575	981595
981576	981596
981577	981597
981578	981598
981579	981599
981580	981600
981581	981601
981582	981602
981583	981603

RON CRICHTON

L 981278
981279
981280
981281
981282
981283
981284
981285
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981288
981289
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981291

MARTY THURSTON

L 981604	L 981622
981605	981623
981606	981624
981607	981626
981608	981627
981609	981628
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981619	981638
981620	981639
981621	981640

JIM FORBES

L 1001454
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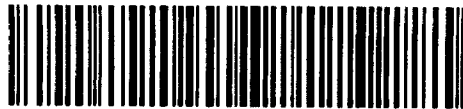
W F P O F - 363 ①



Ministry of Natural Resources

Report of Work (Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT W8808



42A02SW0012 2.11549 BADEN

900

Lands Management

Mining Act 11271 - Do not use shaded areas below.

Type of Survey(s): AIRBORNE MAGNETOMER + VLF ELECTROMAGNETIC
 Township or Area: BADEN TOWNSHIP
 Claim Holder(s): 751160 ONTARIO INC.
 Prospector's Licence No.: T5175
 Address: SUITE 1300, 7 KING ST. EAST TORONTO ONT. M5C 1A2
 Survey Company: H. FERDERBER GEOPHYSICS LIMITED
 Date of Survey (from & to): 05 07 88
 Total Miles of line Cut: 125.1 MILES FLOWN
 Name and Address of Author (of Geo-Technical report): G.N. HENRIKSEN - 169 PERREAULT AVE. - VAL D'OR - P.Q. -

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)					
Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
			Prefix	Number		Prefix	Number	
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic		L	981564		L	981587	
	- Magnetometer			981565			981588	
	- Radiometric			981566			981589	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other			981567			981590	
	Geological			981568			981591	
	Geochemical			981569			981592	
Man Days	Geophysical	Days per Claim		981570			981593	
Complete report and enter total(s) here	- Electromagnetic			981571			981594	
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p style="text-align: center; font-weight: bold; font-size: 2em;">RECEIVED</p> <p style="text-align: center;">AUG 15 1988</p> <p style="text-align: center;">AM 11:20</p> <p style="text-align: center;">7 8 9 10 11 12 1 2 3 4 5 6</p> </div>	- Magnetometer			981572			981595	
	- Radiometric			981573			981596	
	- Other			981574			981597	
	Geochemical			981575			981598	
Airborne Credits	VLF	Days per Claim		981576			981599	
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40		981577			981600	
	Magnetometer	40		981578			981601	
	Radiometric			981579			981602	
Expenditures (excludes power stripping)				981580			981603	
Type of Work Performed				981581			981604	
Performed on Claim(s)				981582			981605	
				981583			981606	
				981584			981607	
Calculation of Expenditure Days Credits				981585			981608	
Total Expenditures		Total Days Credits		981586			981609	
\$	÷ 15 =							

Total number of mining claims covered by this report of work. 46

For Office Use Only

Total Days Cr. Recorded: 8240
 Date Recorded: Aug 15/88
 Date Approved as Recorded: [Signature]
 Mining Recorder: [Signature]
 Branch Director: [Signature]

Date: AUG. 15 1988
 Recorded Holder or Agent (Signature): Carl P. Forbes

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: CARL P. FORBES TO McCAMUS AVE
 Date Certified: AUG. 15 1988
 Certified by (Signature): Carl P. Forbes



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Mining Act

Type of Survey(s) AIRBORNE MAGNETOMETER + VLF ELECTRO MAGNETIC		Township or Area BADEN TOWNSHIP	
Claim Holder(s) 751160 ONTARIO INC.		Prospector's Licence No. T 5175	
Address SUITE 1300, 7 KING ST. EAST TORONTO ONT. M5C 1A2			
Survey Company H. FERDERBER GEOPHYSICS LIMITED		Date of Survey (from & to) 05 07 88 Day Mo. Yr.	Total Miles of line Cut 125.1 MILES FLOWN
Name and Address of Author (of Geo-Technical report) G.N. HENRIKSEN - 169 PERREAU AV. - VAL D'OR P.Q.			

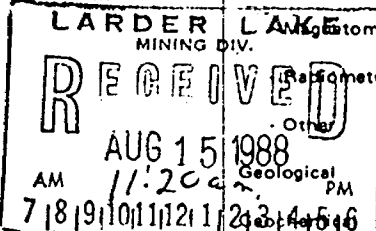
Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	981610		L	981634	
	981611			981635	
	981612			981636	
	981613			981637	
	981614			981638	
	981615			981639	
	981616			981640	
	981617			981278	
	981618			981279	
	981619			981280	
	981620			981281	
	981621			981282	
	981622			981283	
	981623			981284	
	981624			981285	
	981626			981286	
	981627			981287	
	981628			981288	
	981629			981289	
	981630			981290	
	981631			981291	
	981632				
	981633				



Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **44**

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

Date **AUG. 15 1988** Recorded Holder or Agent (Signature) **Carl P. Forbes**

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
CARL P. FORBES 70 MCCAMUS AVE.

Date Certified **AUG. 15 1988** Certified by (Signature) **Carl P. Forbes**

KIRKLAND LAKE ONT. P2N 2J9



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

(3)

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Mining Act

Type of Survey(s) AIRBORNE MAGNETOMETER & VLF ELECTRO-MAGNETIC		Township or Area GAPEN TOWNSHIP	
Claim Holder(s) 751160 ONTARIO INC.		Prospector's Licence No. TS175	
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Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	1001454				
	1001455				
	1001456				
	1001457				
	1001458				
	1001459				
	1001460				
	1001461				
	1001478				
	1001479				
	1001480				
	1001481				
	1001482				

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **13**

For Office Use Only			
Total Days Cr. Recorded	Date Recorded	Mining Recorder	
	Date Approved as Recorded	Branch Director	

Date AUG. 15 1988	Recorded Holder or Agent (Signature) Carl P. Forbes
-----------------------------	---

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
CARL P. FORBES 70 McCAMUS AVE.

Date Certified **AUG. 15 1988** Certified by (Signature) **Carl P. Forbes**



Ministry of
Northern Development
and Mines

Ontario

Ministère du
Développement du Nord
et des Mines

October 14, 1988

Your file: W8808-363
Our file: 2.11549

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

OCT 24 1988

RECEIVED

Dear Sir:

Re: Notice of Intent dated September 29, 1988
Airborne Geophysical (Electromagnetic and Magnetometer)
Survey submitted on Mining Claims L 981564 et al
in the Township of Baden

The assessment work credits, as listed with the above-mentioned
Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

AB:p1
Enclosure

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

Resident Geologist
Kirkland Lake, Ontario

751160 Ontario Inc.
Suite 1300
7 King Street East
Toronto, Ontario
M5C 1A2



Recorded Holder
751160 Ontario Inc.

Township or Area
Baden

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ 31 _____ days	L 981564 to 624 incl.
Magnetometer _____ 31 _____ days	981626 to 40 incl.
Radiometric _____ days	981278 to 91 incl.
Induced polarization _____ days	1001454 to 61 incl.
Other _____ days	1001478 to 82 incl.
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input checked="" type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input type="checkbox"/>
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

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



H. FERDERBER GEOPHYSICS LTD. GEOPHYSICAL & GEOLOGICAL SURVEYS
169 PERRAULT AVENUE, VAL D'OR, QUEBEC J9P 2H1 TELEPHONE 819-824-2075

September 19, 1988

Arthur Barr
Ministry of Northern Development & Mines
Mining Lands Section
Mines and Minerals Division
Whitney Block, Room 6610
Queen'Park
Toronto, Ontario
M7A 1W3

Re: Airborne Electromagnetic and Magnetometer Surveys
submitted on Mining Claims L981564 et. al. in the
Township of Baden, file # 211549

Dear Mr. Barr:

For the airborne magnetic and electromagnetic surveys on
the above-mentioned 103 claims 80.7 miles were flown over
the claim group only, giving 31 credits for the magneto-
meter survey and 31 credits for the electromagnetic
survey. Sorry for the inconvenience.

Yours truly,

G.N. Henriksen B.Sc.
Geologist
GNH/pb

RECEIVED

SEP 28 1988

MINING LANDS SECTION

Robertson Twp. M.310

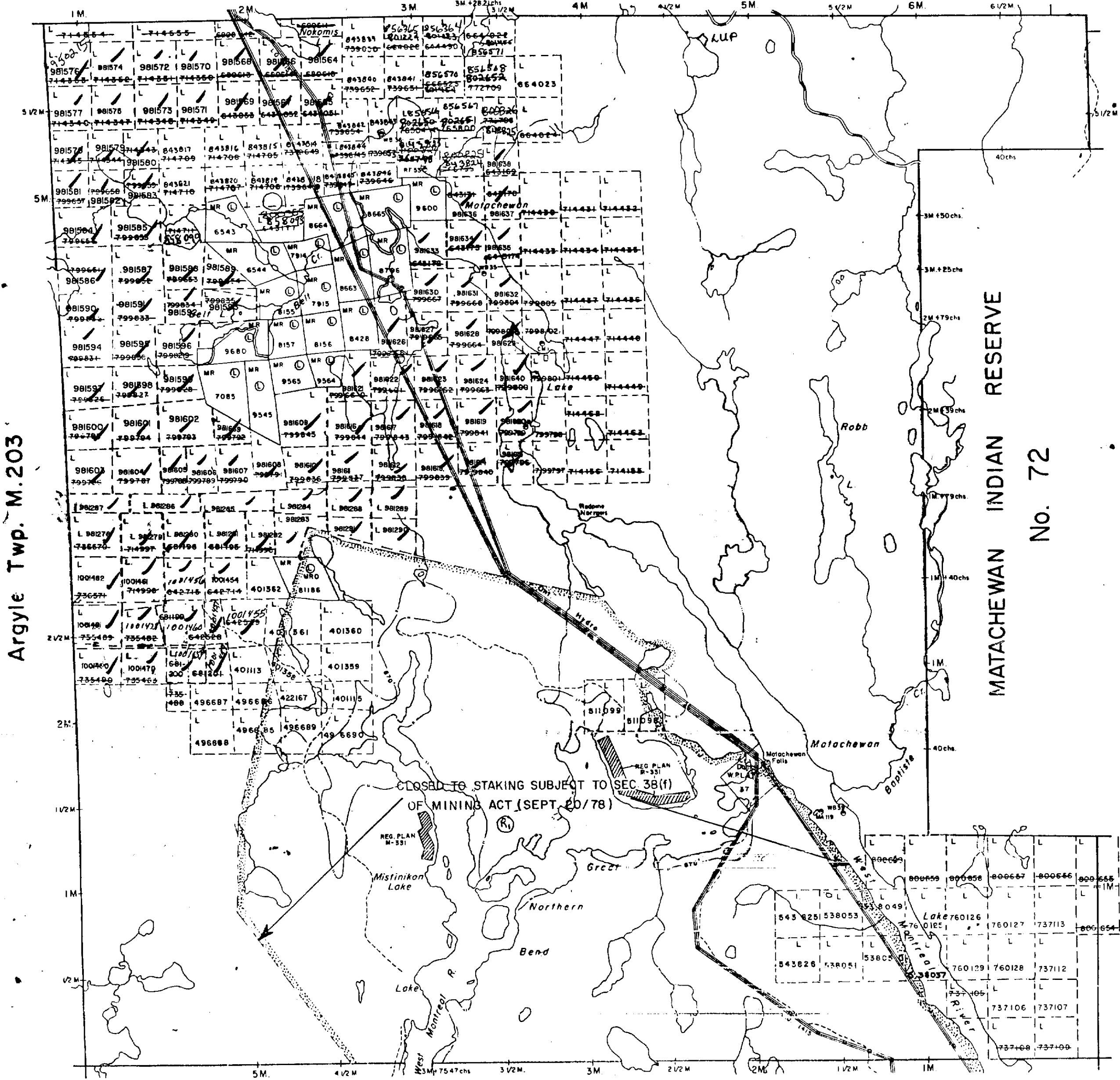
Sheba Twp. M.385

THE TOWNSHIP OF
OF
BADEN

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS



Argyle Twp. M.203

MATACHEWAN INDIAN RESERVE
No. 72

Alma Twp. M.202

Powell Twp. M.241

LEGEND

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

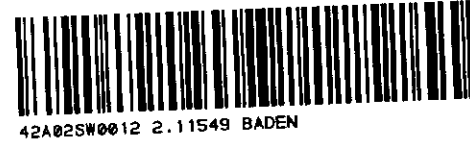
NOTES

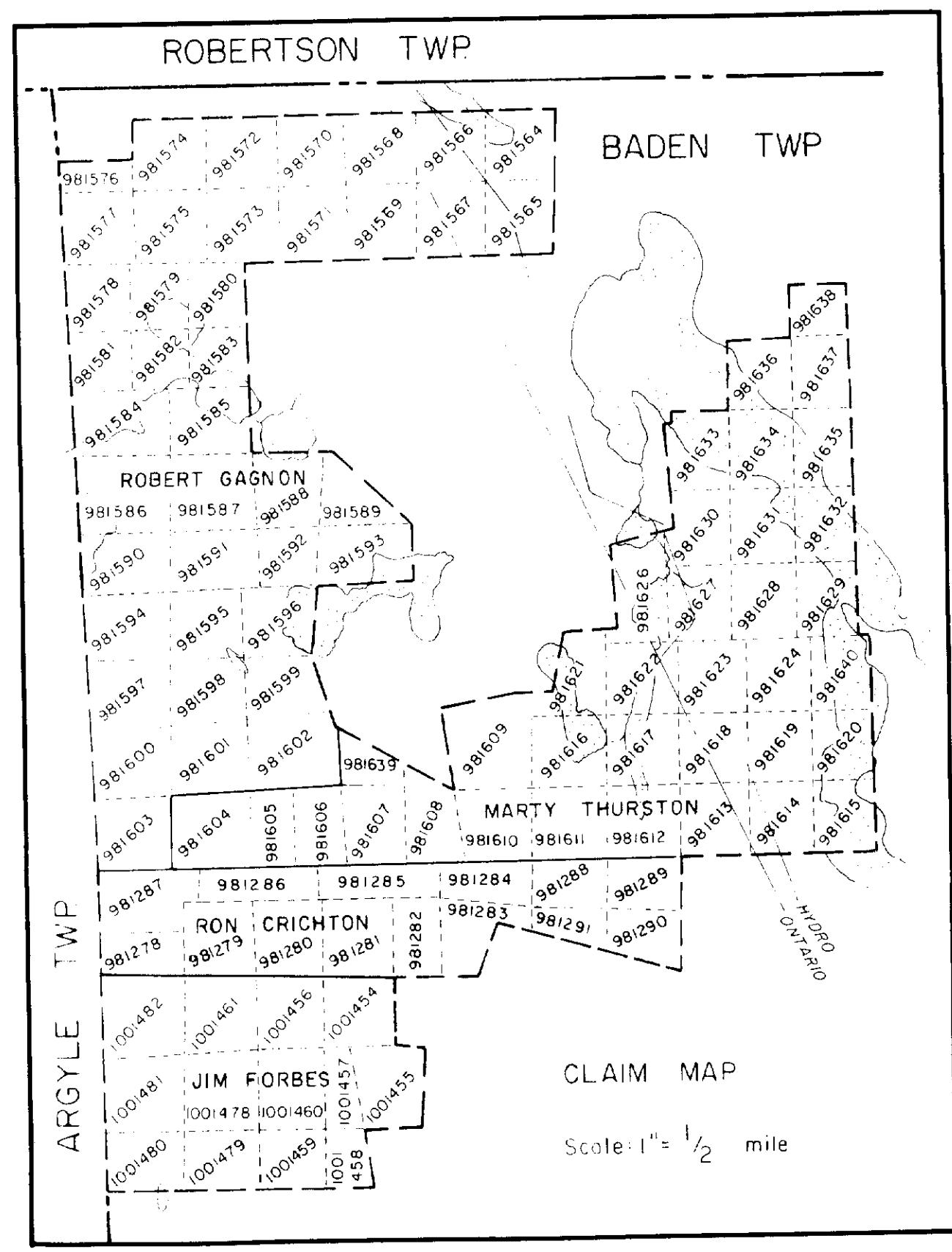
- 400' surface rights reservation along the shores of all lakes and rivers.
- Flooding rights to contour elevation 870' to Ont. Hydro, L.O. 7601. File: 12290 v.2
- Part of township closed to staking The Mining Act S.30(7) R.S.O. 1970 September 20, 1978
- Mining and surface rights withdrawn from prospecting, staking out, sale or lease, Sec. 36, The Mining Act R.S.O. 1980 No. NAW 65/83, Nov. 18, 1983 4:35 p.m.

DATE OF ISSUE
JUN 19 1987
LARDER LAKE
MINING RECORDERS OFFICE

PLAN NO. **M.205#1**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH




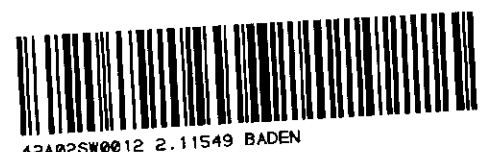


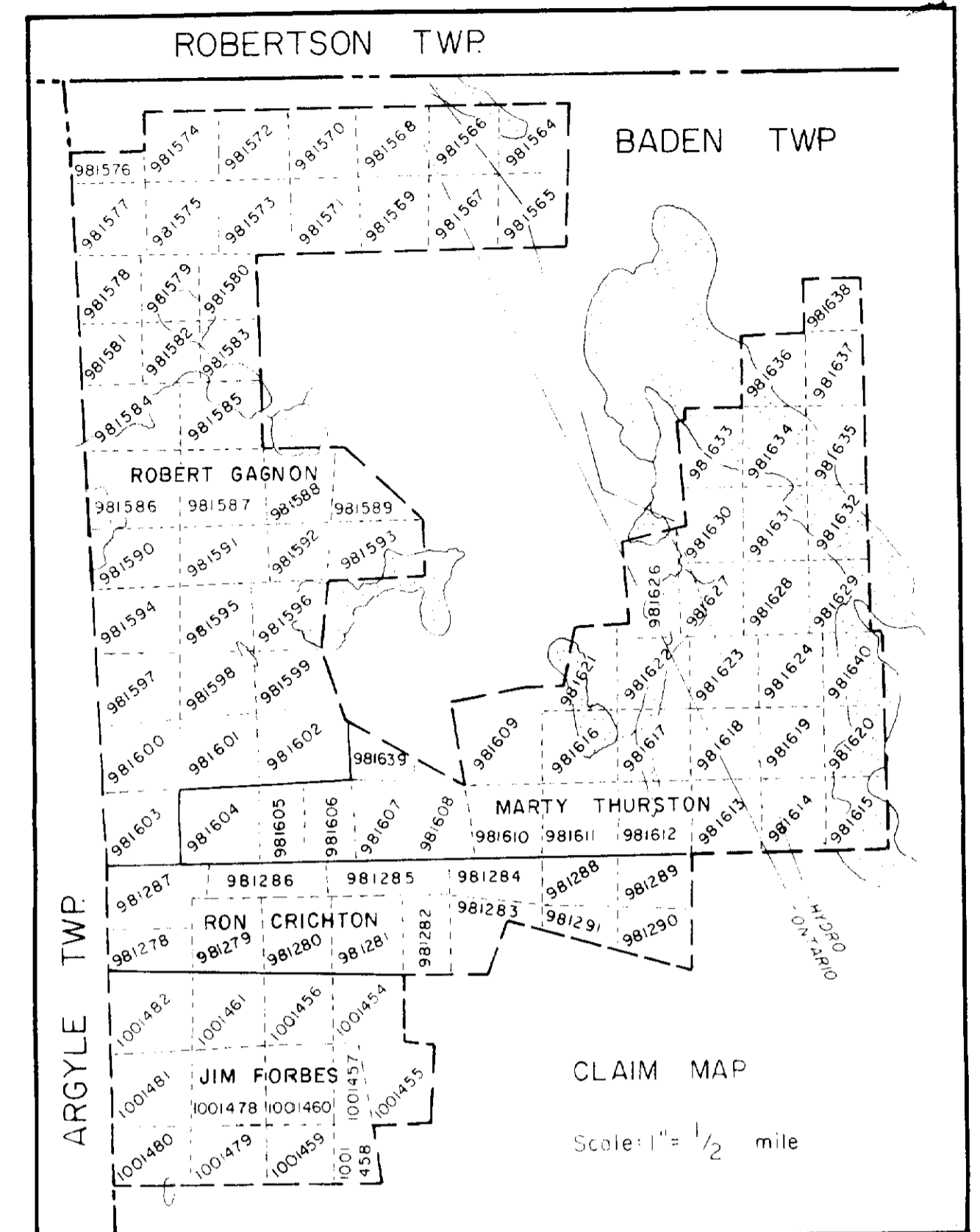
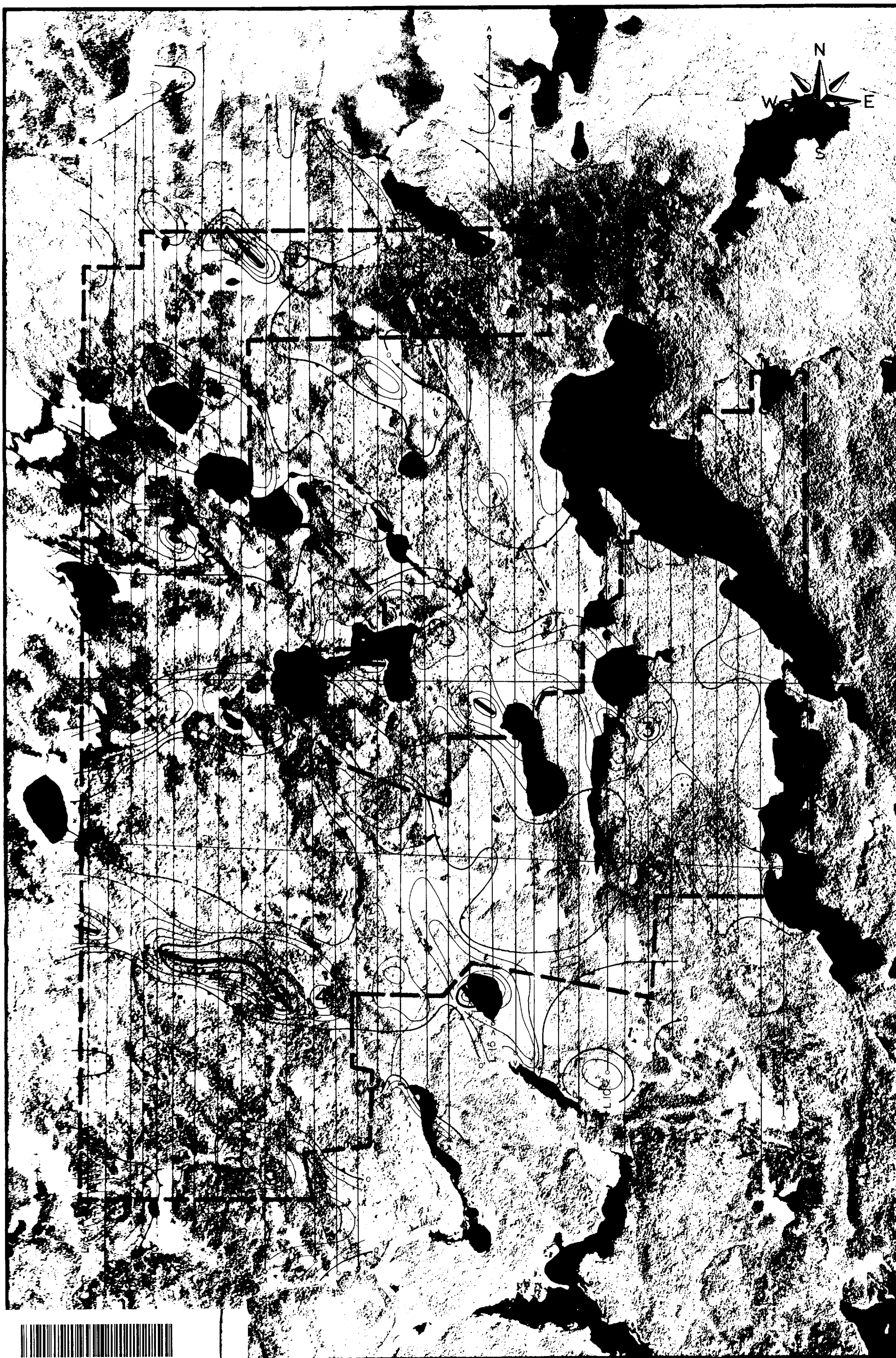
LEGEND

- TOTAL FIELD CONTOUR INTERVAL 20 GAMMAS
- FIDUCIAL POINT
- > LINE DIRECTION
- BASE VALUE 58000 GAMMAS
- ⊖ MAGNETIC LOW
- 100 GAMMAS
- 20 GAMMAS

2.11549

TYPE OF WORK		AIRBORNE MAGNETIC SURVEY	
CLIENT			
R. CRICHTON, R. GAGNON, J. FORBES, M. THURSTON.			
PROJECT		AREA	
		BADEN TWP. ONT.	
 <i>H. Ferderber</i> H. Ferderber Geophysics Ltd.	SCALE	DATE	
	1" = 1/4 mile	JULY 1988	
DRAWN BY	MAP OR SHEET NO.		
<i>DFM</i>	MG-1		





LEGEND

- TOTAL FIELD CONTOUR INTERVAL 2 %
- CONDUCTOR AXIS
- FIDUCIAL POINT
- LINE DIRECTION
- STATION USED: CUTLER, MAINE, USA. (NAA. 24.0 kHz.)
- LESS THAN ZERO
- 10 %
- 2 %
- 0 %

2.11549

TYPE OF WORK		AIRBORNE V.L.F.-EM SURVEY	
CLIENT			
R. CRICHTON, R. GAGNON, J. FORBES, M. THURSTON.			
PROJECT		AREA	
		BADEN TWP. ONT.	
DRAWN BY		SCALE	DATE
<i>H. Ferderber</i>		1" = 1/4 mile	JULY 1988
H. Ferderber Geophysics Ltd.		DRAWN BY	MAP OR SHEET NO.
		<i>DM</i>	EM-1



42A8250012 2.11549 BADEN