



42B01NW0034 2.14069 1VANHOE

010

GEOPHYSICAL REPORT  
FOR  
FALCONBRIDGE LIMITED  
ON THE  
KEITH PROJECT #8201  
KEITH TOWNSHIP  
PORCUPINE MINING DIVISION

2.14069

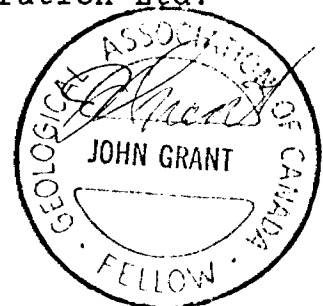
RECEIVED

APR 22 1991

MINING LANDS SECTION

Prepared By:  
J.C. Grant, CET, FGAC  
Exsics Exploration Ltd.  
April, 1991

*Grant*  
2.5847





42B01NW0034 2.14069 IVANHOE

010C

TABLE OF CONTENTS

	Page
INTRODUCTION.....	1
PERSONNEL.....	1
LOCATION AND ACCESS.....	2
CLAIM GROUP.....	3
GENERAL GEOLOGY.....	3
PROPERTY GEOLOGY.....	4
GEOPHYSICAL PROGRAM.....	4
LINECUTTING PROGRAM.....	4
GEOPHYSICAL PROCEDURES.....	5
RECOMMENDATIONS AND CONCLUSIONS.....	12
CERTIFICATION	

LIST OF FIGURES

- Figure 1 - Location Map
- Figure 2 - Property Location
- Figure 3 - Claim Sketch

APPENDICES

- Appendix A - EDA Omni IV Magnetometer
- Appendix B - Apex MaxMin II System
- Appendix C - Technical Data Statement

LIST OF MAPS

- Map No. 1 - Contoured Magnetometer
- Map No. 2 - MaxMin II, 444 Hz
- Map No. 3 - MaxMin II, 1777 Hz

## INTRODUCTION

Falconbridge Limited has 100% interest in 31 unpatented mining claims located in the northwest corner of Keith Township, Porcupine Mining Division, Timmins, Ontario.

During the months of January and February, 1991, the services of Exsics Exploration were retained to perform a linecutting and geophysical program over the block. The intent of this program was to outline geological structure which may prove a favourable environment for base metal and/or precious metal deposition.

## PERSONNEL

The field crew who were directly responsible for collecting the raw data were as follows:

Robin Mathieu.....Timmins, Ontario

Dave Clement.....Timmins, Ontario

Paul Edwards.....Timmins, Ontario

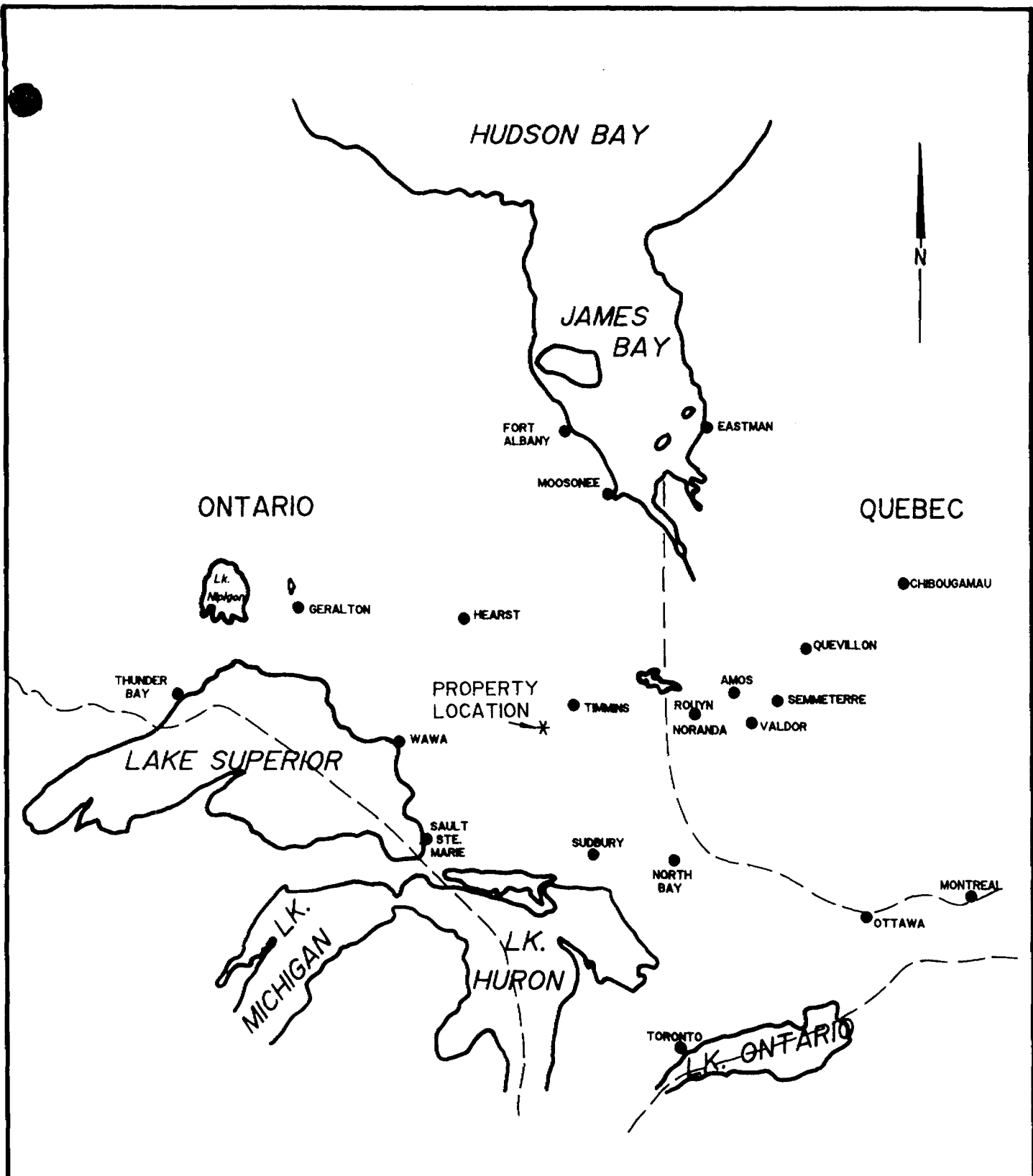
All of the work was carried out under the direct supervision of J. C. Grant.


### LOCATION AND ACCESS

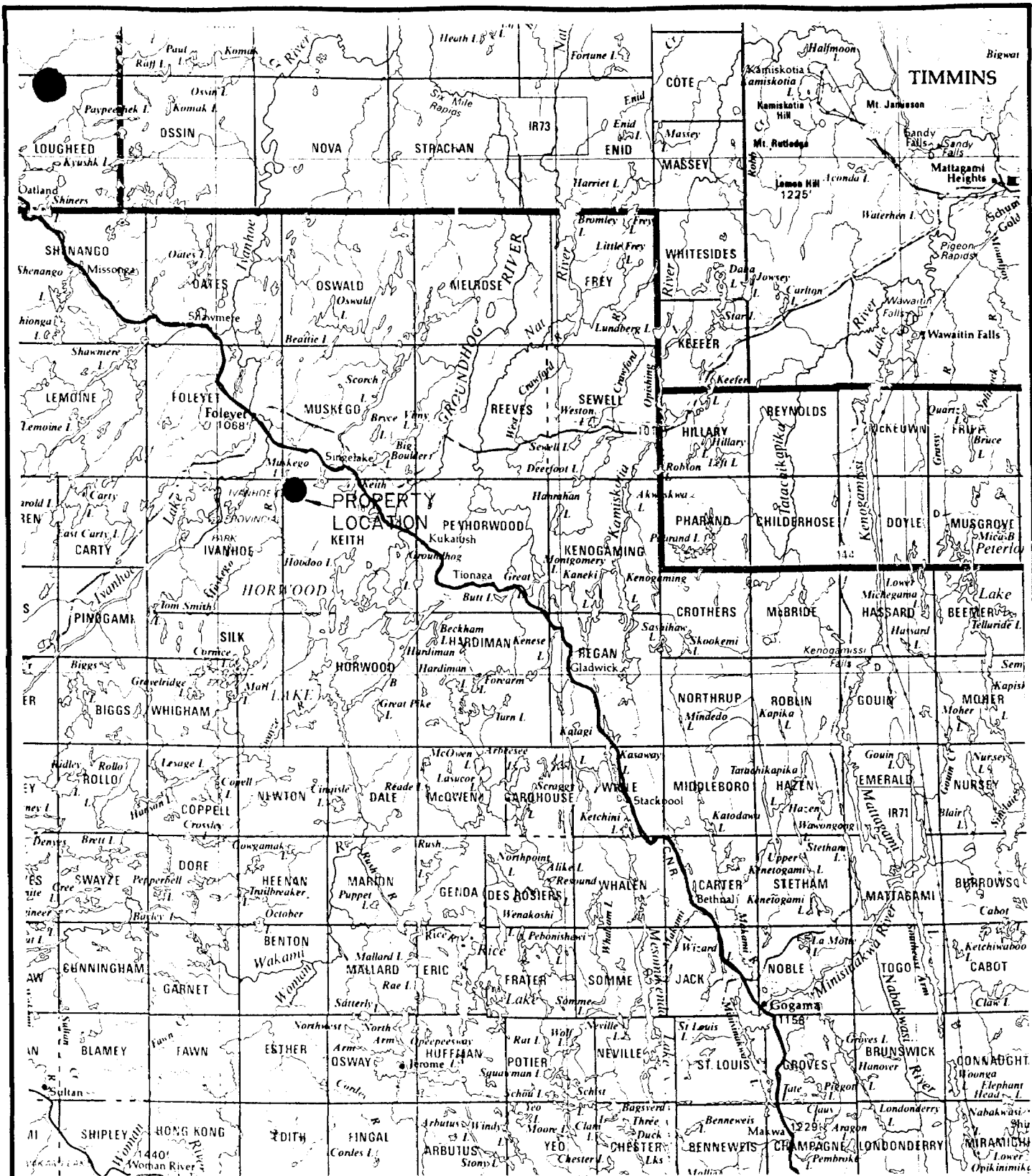
The Keith #8201 Project is located in the northwest section of Keith Township, Porcupine Mining Division, District of Sudbury, in Northeastern Ontario.


More specifically, it is situated between Slate Rock Lake and Muskego Lake with the 3 most westerly claims situated in Ivanhoe Township. The entire property is situated approximately 8 kilometres south-southeast of the Village of Foleyet. Refer to Figure 2 and 3 of this report.

Access to the property was ideal during the survey period. Highway 101 west travels from Timmins to Foleyet. A good secondary gravel road provides access to the centre of the property. This gravel road was open all winter due to logging operations in the area. Travel time from Timmins to the property is approximately 1.2 hours, one way.



	<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1000, P4M-7X1 Suite 13, Hollinger Bldg. Timmins Ont. Telephone: 705-267-451	
	<b>CLIENT: FALCONBRIDGE LIMITED</b>	
<b>PROPERTY: KEITH TOWNSHIP</b>		<i>Handwritten signature</i>
<b>TITLE: PROJECT = 8201 LOCATION MAP</b>		
Fig. 1		
<b>Date:</b> March 1991	<b>Scale:</b> 1"=125miles	<b>NTS:</b>
<b>Drawn:</b> P.G.	<b>Interp:</b> J. Grant	<b>Job No.</b> EE-455



 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1000, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: <b>FALCONBRIDGE LIMITED</b>		
PROPERTY: <b>KEITH TOWNSHIP</b>		
TITLE: <b>PROJECT = 8201</b>		
<b>PROPERTY LOCATION</b> Fig. 2		
Date: March 1991	Scale: 1:600,000	NTS:
Drawn:	Interp: J. Grant	Job No. EE-455

CLAIM GROUP

The property consists of 31 contiguous unpatented mining claims located in the northwest corner of Keith Township. The following claims make up the Keith #8201 Property:

P-1160692 to P-1160681 Inclusive.....	12
P-1159213 to P-1159208 Inclusive.....	6
P-1160651 to P-1160660 Inclusive.....	10
P-1171206 to P-1171208 Inclusive.....	3

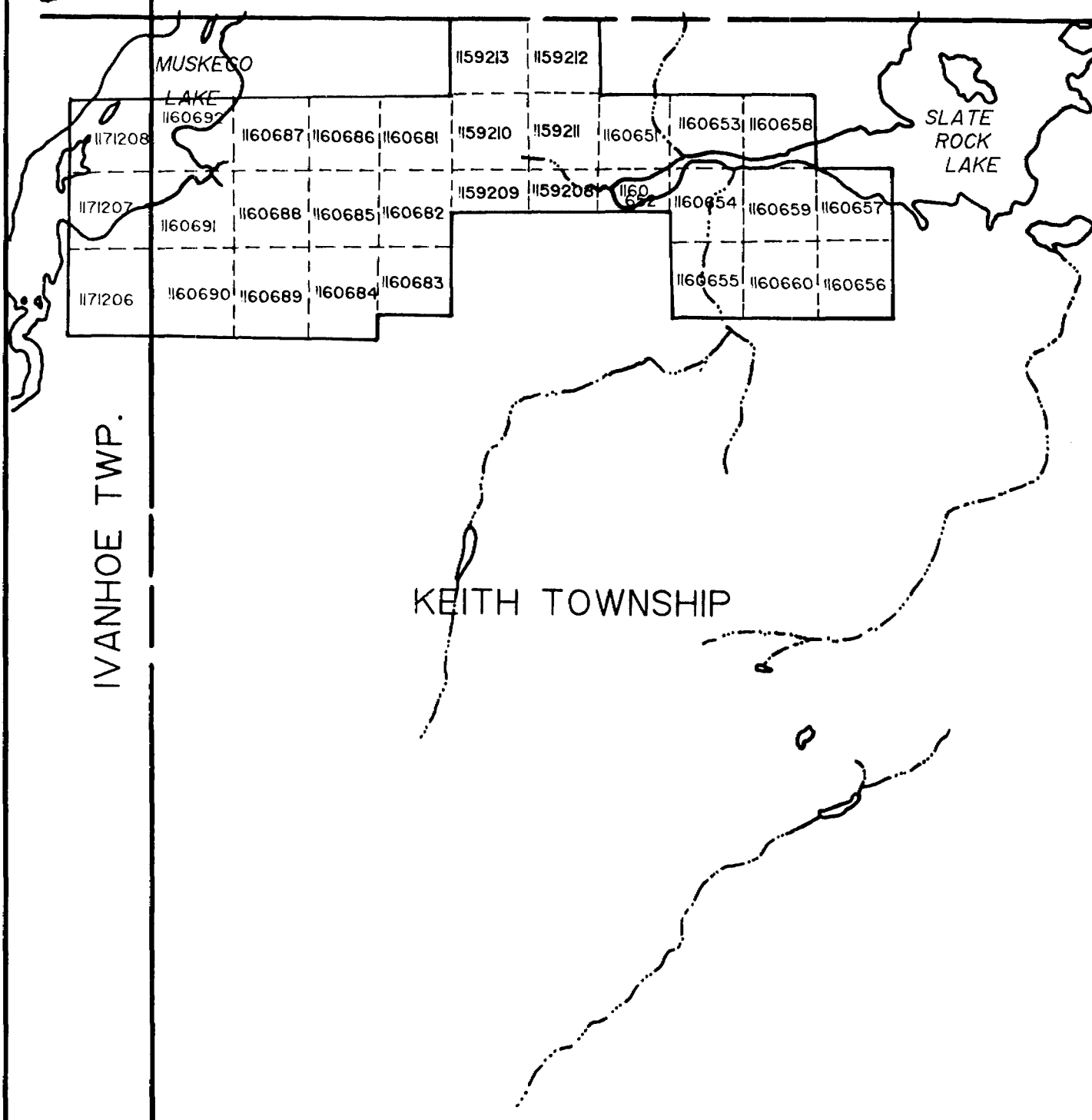
Total of 31 Claims

Refer to Figure 3 of this report which has been copied from MNDM Plan Map # G-3238, Keith Township.

GENERAL GEOLOGY

Keith Township, for the most part, is underlain by mafic to intermediate metavolcanics which have been cut by bands of felsic tuffs, metasediments and ultramafic flows. There are several sulphide iron formation horizons as well as a copper and gold occurrence. There are also a number of graphite occurrences scattered across the northern section of the Township.



MUSKEGO TWP.



IVANHOE TWP.

KEITH TOWNSHIP



	<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1000, P4M-7X1 Suite 13, Hollinger Bldg. Timmins Ont. Telephone: 705-267-4151	
	CLIENT: <b>FALCONBRIDGE LIMITED</b>	
PROPERTY: <b>KEITH TOWNSHIP</b>		
TITLE: <b>PROJECT = 8201 CLAIM SKETCH</b>		
Fig. 3		
Date: March 1991	Scale: 1"=1/2mile	NTS:
Drawn: P.G.	Interp: J. Grant	Job No. EE-455



### PROPERTY GEOLOGY

Generally the property is underlain by mafic to intermediate metavolcanics which have been intruded by a band of felsic flows to the north and a band of ultramafics along the south boundary. A narrow diabase dike crosscuts the property in a northwest to southeast fashion in the vicinity of the western tip extension of Slate Rock Lake.

### GEOPHYSICAL PROGRAM

This program consisted of a total field magnetic survey run in conjunction with a horizontal loop electromagnetic survey. Both programs were completed over the entire property. This program was completed during the months of February and March of 1991.

### LINECUTTING PROGRAM

A detailed grid was first established over the property using a line spacing of 100 meters and a station interval of 20 meters. This grid was cut to provide quality control for the follow-up geophysical program. In all, a total of 57.8 km of grid lines were established.

## GEOPHYSICAL PROCEDURE

### Magnetic Survey:

This survey was completed using the EDA Omni IV system. Specifications for this system can be found as Appendix A of this report.

This unit is a rugged compact portable instrument designed specifically for field operation. The unit is extremely accurate and flexible. It contains a microprocessor and associated circuitry for monitoring, storing and processing data. For this project, two Omni IV units were used in the following manner. One unit was set up at a fixed location, in the base station mode where it measures and stores in it's memory the diurnal variations in the earth's magnetic field. Readings were taken automatically at intervals of 30 seconds. The memory has a capacity of 5000 data blocks.

A field unit was also used and it was tuned to the same reference field as the base unit and at the same location. When the two units are connected together the base unit can correct and dump the total field measurements. These corrections made are for diurnal variations and reference field values.

For this particular survey, a reference field of 58430 gammas was used throughout the program. Also, for ease in plotting, a background level of 58000 gammas has been removed from each value. The resultant data was then plotted onto a base map at a scale of 1:5000 and then contoured at 50 gamma intervals, wherever possible. This contoured map is included in the back pocket of this report.

Electromagnetic Survey:

This survey was completed using the Apex MaxMin II System. Specifications for this unit can be found as Appendix B of this report.

The MaxMin II is a two-man continuously portable EM system. It is designed to measure both the vertical and horizontal in-phase (IP) and quadrature (QP), components of the anomalous field from electrically conductive zones. More accurately, the directions of the measured components are perpendicular and parallel to the mean slope between the transmitting coil (Tx) and the receiving coil (Rx). The plane of the transmitter is kept parallel to the mean slope between the transmitter and receiver at all times. This means that the MaxMin is in effect a

horizontal loop (HL) system, when the receiver measures anomalous components perpendicular to the mean slope between the coils.

This system has the following principal features designed into it:

- 1) Five system frequencies of 222, 444, 888, 1777 and 3555 Hz to deal effectively with a wide range of overburden and bedrock conductivities.
- 2) Several transmitter, receiver operations - 50, 100, 150, 200 and 250 meters to cope with a wide range of problems from search for large deep conductive zones to the resolution of shallow, parallel conductive zones.
- 3) Good intercom system for operator co-ordination.
- 4) Warning lights to indicate invalid readings.
- 5) Lightweight portability to reduce operating costs.

For this particular survey, a coil separation of 150 meters was used between the receiver and transmitter operators. The two frequencies read were the 1777 Hz and 444 Hz. The data was then plotted on to base maps, one map for each frequency, and then profiled at 1 cm to 20%. These profile maps are included in the back pocket of this report.

The surveys were successful in outlining a number of anomalies over the property. Several of the zones represent major structural trends which have been somewhat faulted or folded. Each of the targets will be discussed separately and in detail below:

Zone A:

This feature represents one of the major zones on the grid. It strikes across Lines 8400ME to L10800ME and appears to continue off of the grid to the east. This zone, in fact, may strike as far as L8000ME.

The zone lies at a depth range of 30 to 70 meters with a conductivity range of 2 to 20 mhos. The structure appears to be near vertical to slightly south dipping.

The magnetics for the zone is somewhat spotty along most of the western extension with the eastern section of the zone lying along the southern contact of a modest mag high.

Zone B:

This feature strikes across Lines 10200ME to 10800ME and continues off of the grid to the east. It appears to represent a good legitimate zone at a depth range of 20 to 57 meters with a conductivity range of 4 to 21 mhos. This feature also appears to be dipping near vertical to slightly south.

There is a moderate mag high-low association with the western tip of the response with a very broad mag high to the east.

One major feature noted in the magnetics for the above two zones suggest that there is evidence of a north-northwest to southeast striking diabase dike running parallel to Lines 10500ME and 10600ME. The dike does not appear to have disrupted the strike of the EM responses.

#### Zone C:

This feature also represents a good target zone striking across Lines 10400ME to 9500ME. The feature lies at a depth range of 26 to 46 meters with a conductivity range of 6 to 18 mhos.

The feature has good magnetic signature with its' entire strike length.

#### Zone D:

The feature also represents a good bedrock response, possibly representative of the same source as Zone C. It may suggest a fold axis, such that C is the north limb of the fold and D is the south limb. zone D lies along the south flank of the same magnetic unit as zone C. The zone lies at a depth range of 25M to 40M with a conductivity range of 6 to 15 mhos.

These values represent the same as Zone C.

Zone E:

This feature strikes east-west from Line 10000ME to 11000ME just at the south end of the lines.

The interruption in the zone between Lines 105 and 10600ME is caused by the diabase dike crosscutting the zone.

There is no direct magnetic association with the feature.

Zone F:

This feature strikes from Line 7700ME up to and including Line 9600ME and appears to continue off of the grid to the east. This structure basically parallels Zone A.

Again, the magnetics for the structure is represented by a somewhat spotty correlation along the western portion of the zone to north flanking along the eastern section. This feature is relatively weak and narrow in comparison to the above zones.

Zone G:

This structure generally strikes east-west across Lines 9100ME to 9600ME and may continue off of the grid to the east. The zone lies at a depth range of 42M to 57M with a conductivity of 2 to 23 mhos.

The zone lies along the south flank of a moderate magnetic high feature.

Zone H:

This feature was just noted on the north end of Lines 9300ME to 9600ME. It appears to lie within a broad weak magnetic high.

Zone J:

This feature is entirely continued within Muskego Lake and strikes across Lines 7100ME to 7300ME. The zone appears to represent a legitimate target at a depth of 50 - 55 meters with a mho value of 14.

There does not appear to be any definite magnetic correlation.



## RECOMMENDATIONS AND CONCLUSIONS

The surveys were successful in outlining a number of good target zones over the survey area.

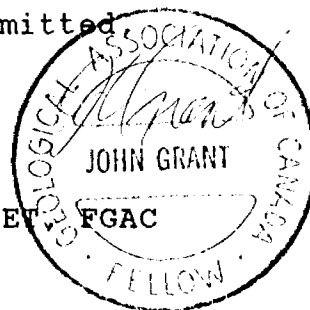
Certainly the most interesting areas are represented by the possible fold structure in the area of Zones C and D. Also, Zones A, B and G represent good legitimate bedrock zones.

Zones F and J are questionable at this writing, or at least of lower priority. They do appear to represent structures, generally parallel to the more predominant zones.

A follow-up program should consist of detailed mapping over the better zones followed up by drilling of the stronger sections of each zone which have been interpreted for this report.

Respectfully Submitted

John C. Grant, C.E.T. FGAC



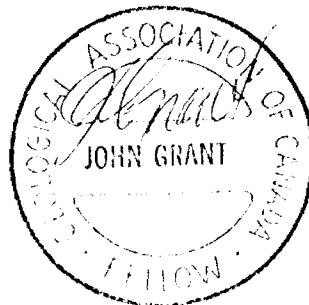
CERTIFICATE OF QUALIFICATIONS

I, John Charles Grant do hereby certify:

1. that I am a geophysicist and reside at Lot 2 Martineau Avenue, Kamiskotia Lake, Timmins, Ontario.
2. that I am a Fellow of the Geological Association of Canada.
3. that I am a member of the Certified Engineering Technologist Association.
4. that I graduated from Cambrian College of Applied Arts and Technology, Sudbury Campus in 1975 with an Honour's diploma in Geology Technology.
5. that I have practised my profession continuously for 16 years.
6. that my report on the KEITH PROJECT #8201, KEITH TOWNSHIP for FALCONBRIDGE LIMITED, is based on work carried out under my supervision.
4. I hold no specific or special interest in the described property. I have been retained as a Consulting Geophysicist for "the property".

Dated this 12th day of April, 1991 at Timmins, Ontario

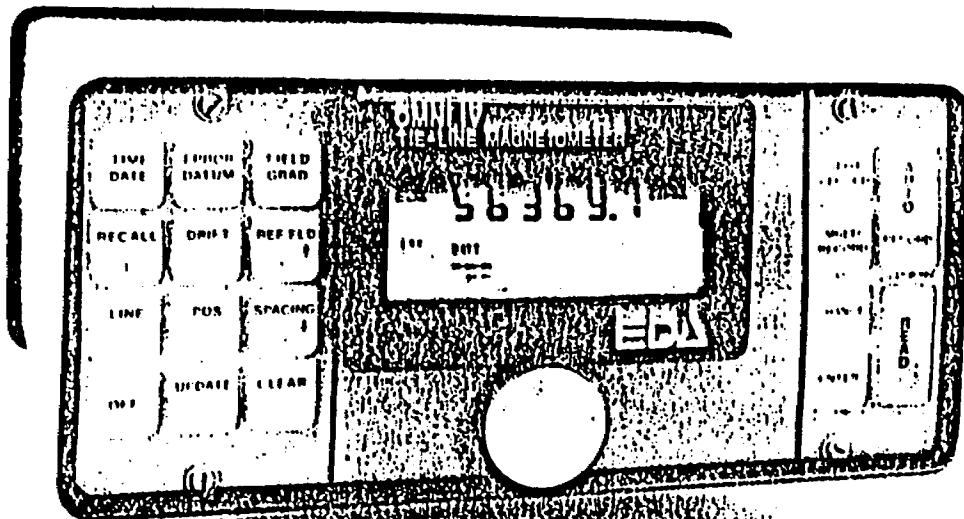
John C. Grant, C.E.T., F.G.A.C.



A P P E N D I X A

# OMNI IV "Tie-Line" Magnetometer

# EDA



## OMNI IV's Major Benefits

- Four Magnetometers in One
- Self Correcting for Diurnal Variations
- Reduced Instrumentation Requirements
- 25% Weight Reduction
- User Friendly Keypad Operation
- Universal Computer Interface
- Comprehensive Software Packages

A P P E N D I X B

# APEX

# MAXMIN-II PORTABLE EM

- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.



A P P E N D I X C



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.

Type of Survey(s) MAGNETIC & ELECTROMAGNETIC  
Township or Area KEITH & IVANHOE TOWNSHIPS  
Claim Holder(s) FALCON BRIDGE LIMITED  
571 MONETA AVE TOWNSHIPS  
Survey Company EXSIS EXPL. LTD  
Author of Report JOHN C. GRANT  
Address of Author Box 1850, Townships, Ont.  
Covering Dates of Survey Apr 10/91 to Apr 11/91  
(linecutting to office)  
Total Miles of Line Cut 57.8 Km

**MINING CLAIMS TRAVERSED**  
List numerically

(prefix)	(number)
P-1171208	
-1171207	IVANHOE
-1171206	Twp.
P-1160692	P-1160652
-1160691	-1160653
-1160690	-1160654
-1160689	-1160655
-1160688	-1160656
-1160687	-1160657
-1160686	-1160658
-1160685	-1160659
-1160684	P-1160660
-1160683	
-1160682	
-1160681	
-1159213	
-1159212	
-1159211	
-1159210	
-1159209	
-1159208	
-1160651	
<b>TOTAL CLAIMS</b> <u>31</u>	

SPECIAL PROVISIONS  
CREDITS REQUESTED

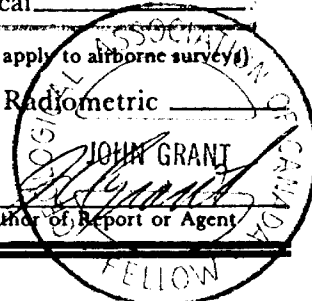
ENTER 40 days (includes  
line cutting) for first  
survey.  
ENTER 20 days for each  
additional survey using  
same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	<u>20</u>
-Magnetometer	<u>40</u>
-Radiometric	
-Other	
Geological	
Geochemical	

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Apr 11/91 SIGNATURE: JOHN GRANT  
Author of Report or Agent



Res. Geol. \_\_\_\_\_ Qualifications 2.5347

Previous Surveys

File No.	Type	Date	Claim Holder

If space insufficient, attach list



DOCUMENT No.  
**W 9160.00138**



**Report of Work**  
(Geophysical, Geological and Geochemical Surveys)

**Mining Act**

Type of Survey(s) <b>Magnetic and Electromagnetic</b>	Mining Division <b>Porcupine</b>	Township or Area <b>Keith and Ivanhoe</b>
Recorded Holder(s) <b>Falconbridge Limited</b>	Prospector's Licence No. <b>A-21647</b>	
Address <b>571 Moneta Ave., Timmins, Ont. P4N-7H9</b>		Telephone No. <b>267-1188</b>
Survey Company <b>Exsics Exp. Ltd.</b>		
Name and Address of Author (of Geo-Technical Report) <b>John C. Grant, Box 1880, Timmins Ont.</b>		Date of Survey (from & to) <b>10, 01, 91 to 11, 04, 91</b>

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	20
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
<b>Man Days</b> Complete reverse side and enter total(s) here	Geophysical	Days per Claim
<b>RECEIVED</b> JUN 12 1991 <b>MINING LANDS SECTION</b>	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geochemical	
<b>Airborne Credits</b> Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Other	
Total miles flown over claim(s).		
Date <b>Apr. 18/91</b>	Recorded Holder or Agent (Signature) <i>[Signature]</i>	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1171208	P	1159211 -		
	1171207		1159210 -		
	1171206 -		1159209 -		
	1160692		1159208 -		
	1160691		1160651 -		
	1160690		1160652 -		
	1160689		1160653 -		
	1160688		1160654 -		
	1160687		1160655 -		
	1160686		1160656 -		
	1160685		1160657 -		
	1160684		1160658 -		
	1160683		1160659 -		
	1160682		1160660 -		
	1160681				
	1159213 -				
	1159212 -				

**RECORDED**  
mining claims covered by this report of work.

31

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

Name and Address of Person Certifying  
**John C. Grant, Box 1880, Timmins Ont. P4N-7X1**

Telephone No.  
**267-4151**

Date  
**Apr 18/91**  
Certified By (Signature)  
*[Signature]*

For Office Use Only

Total Days Cr. Recorded <b>1,860</b>	Date Recorded <b>APRIL 18/91</b>	Mining Recorder <b>Robert Bailey</b>
	Date Approved as Recorded <b>JUNE 11, 1991</b>	Province Manager, Mining Lands <b>John C. Goshinski</b>

Received Stamp  
**RECEIVED**  
**APR 18 1991**

**REFERENCE**

**AREAS WITHDRAWN FROM DISPOSITION**

- M.R.O. — MINING RIGHTS ONLY
- S.R.O. — SURFACE RIGHTS ONLY
- M.+S. — MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
①			S.R.O.	135263
②	M.N.R. RES.		S.R.O.	22417
③	SEC. 36/80	7/2/80	S.R.O.	188543

**SAND AND GRAVEL**

- ④ M.T.C. PIT
- ⑤ M.T.C. PIT 3A-15
- ⑥ M.T.C. PIT 3A-16
- ⑦ M.T.C. PIT 1085
- ⑧ GRAVEL FILE 177587
- ⑨ M.N.R. PIT 3A-1 (M.O.E. WASTE DISP. SITE)

**NOTES**

SURVEY LINES SHOWN THUS ARE FOR CONTROL ONLY. CLAIMS CLASSIFIED AS BEING IN UNSUBDIVIDED TERRITORY. — March 7, 1947.  
Surveyor General

**FLOODING**

Flooded areas on Hoodoo B, Horwood Lakes and Groundhog R. to contour elev. 1117. L.O. 7746. File: 75166.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING

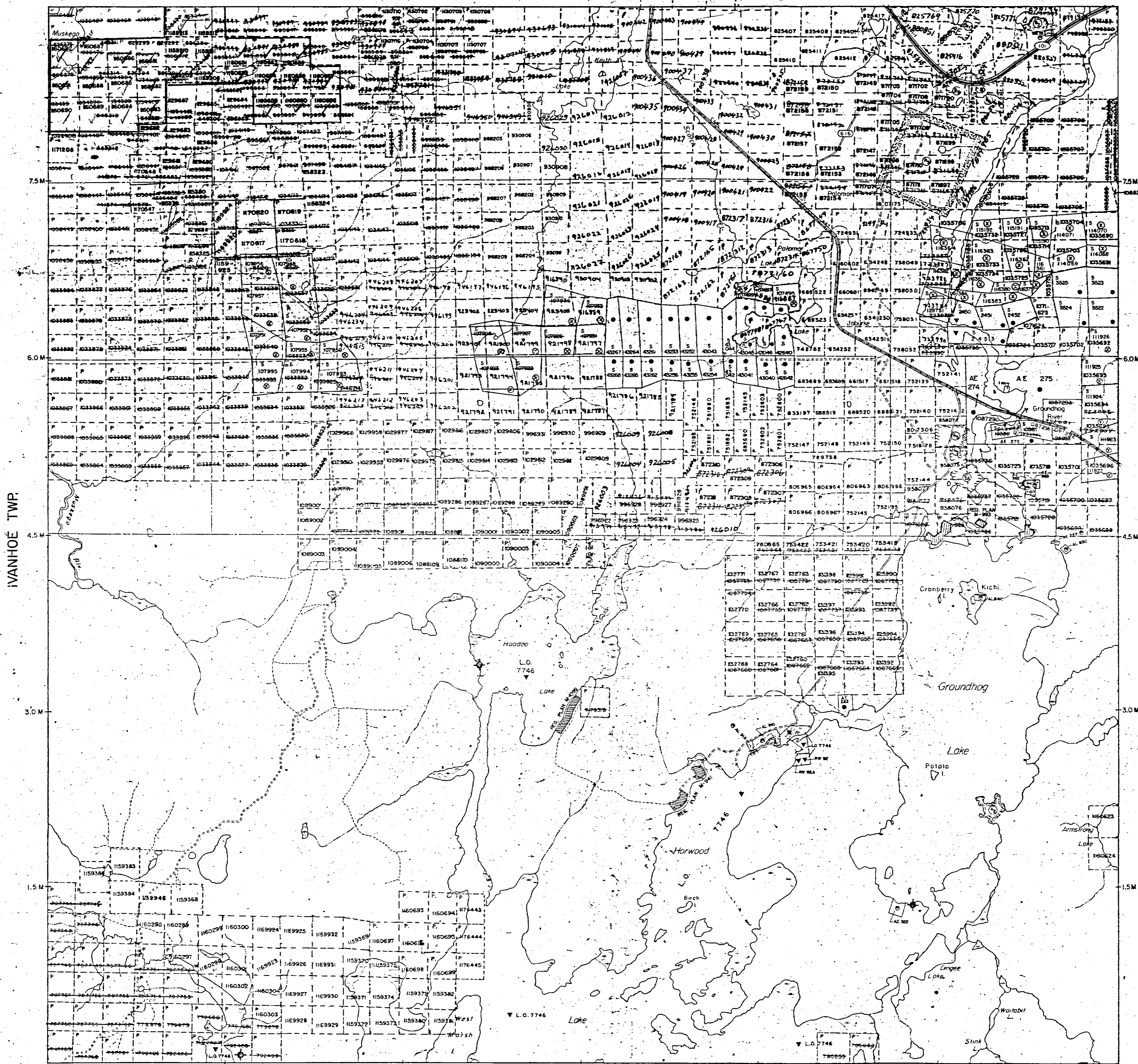


42891N0634 2.14069 IVANHOE

200

2.14069

MUSKEGO TWP.



**LEGEND**

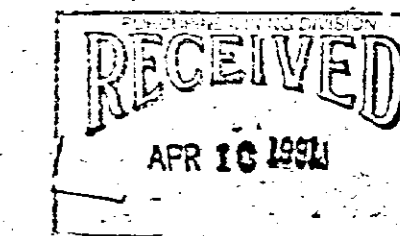
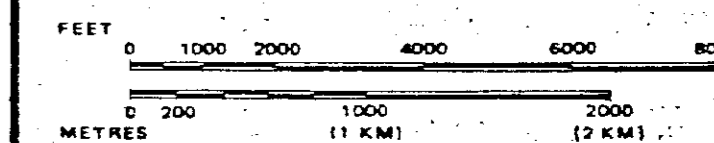
- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES: LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	
REMOTE TOURIST CAMPS	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



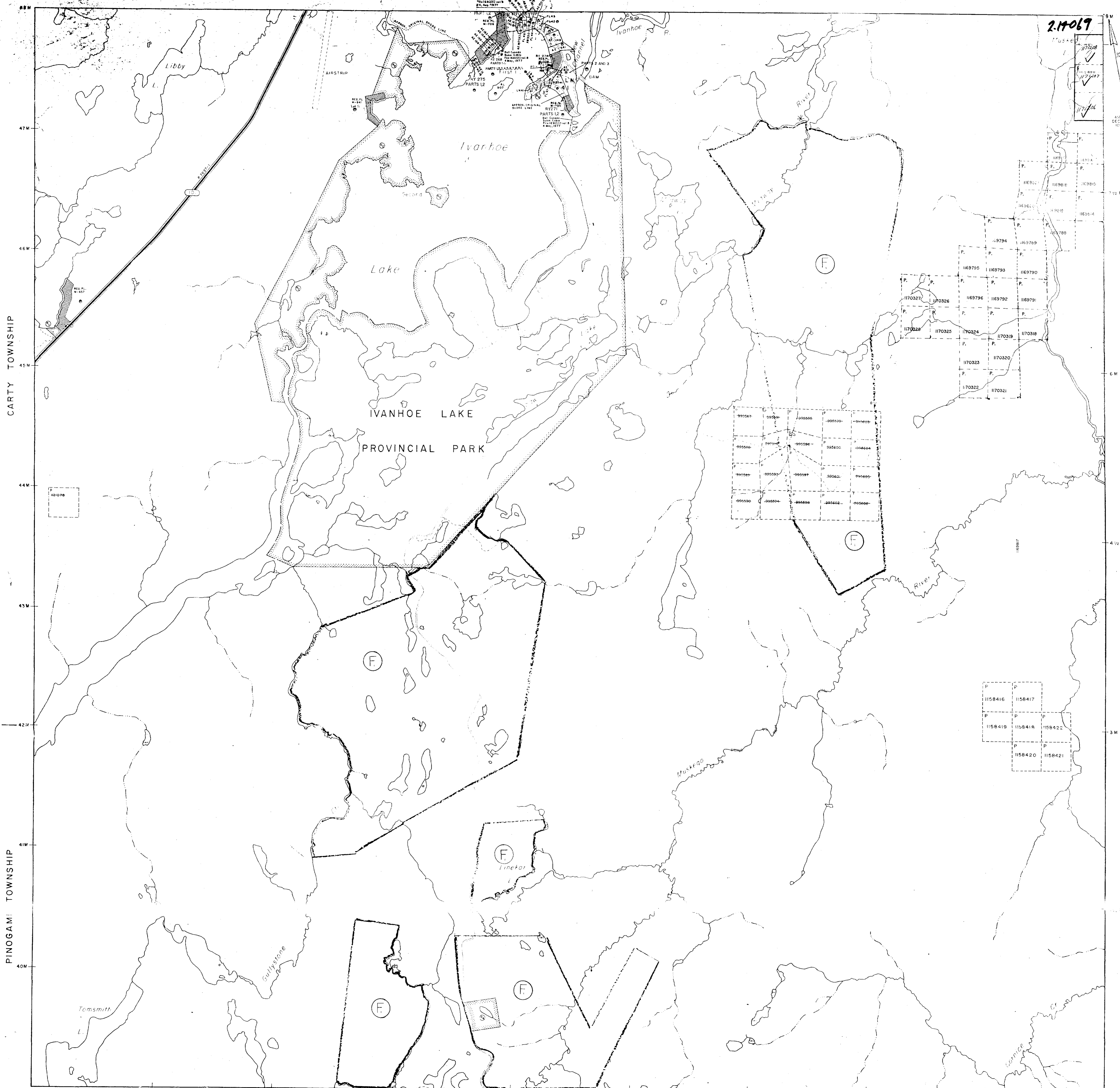
TOWNSHIP  
**KEITH**  
M.N.R. ADMINISTRATIVE DISTRICT  
CHAPLEAU  
MINING DIVISION  
PORCUPINE  
LAND TITLES / REGISTRY DIVISION  
SUDBURY

Ministry of Land  
Natural Resources  
Ontario Management Branch

Date: APRIL 1985  
Number: G-3238

HORWOOD TWP.





HIGHWAY AND ROUTE NO.

OTHER ROADS

TRAILS

SURVEYED LINES

TOWNSHIPS, BASE LINES, ETC.

LOTS, MINING CLAIMS, PARCELS, ETC.

UNSURVEYED LINES

LOT LINES

PARCEL BOUNDARY

MINING CLAIMS ETC.

RAILWAY AND RIGHT OF WAY

UTILITY LINES

NON PERENNIAL STREAM

FLOODING OR FLOODING RIGHTS

SUBDIVISION OR COMPOSITE PLAN

RESERVATIONS

ORIGINAL SHORELINE

MARSH OR MUSKOG

MINES

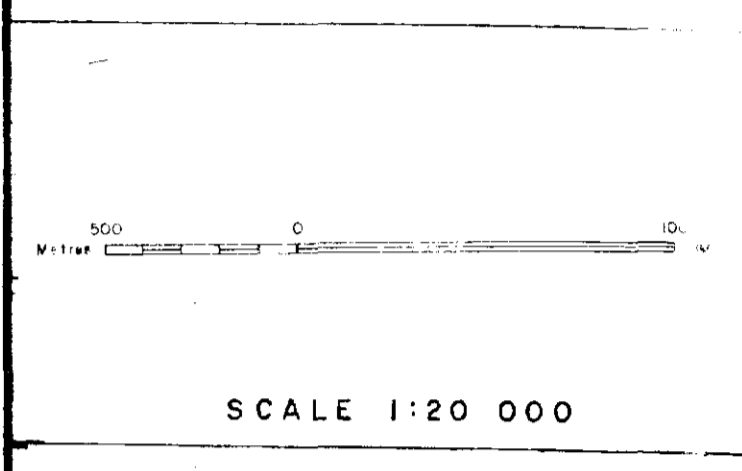
TRAVERSE MONUMENT

LAND USE PERMIT

**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	.....
..... SURFACE RIGHTS ONLY	.....
..... MINING RIGHTS ONLY	.....
LEASE, SURFACE & MINING RIGHTS	.....
..... SURFACE RIGHTS ONLY	.....
..... MINING RIGHTS ONLY	.....
LICENCE OF OCCUPATION	.....
ORDER IN COUNCIL	.....
RESERVATION	.....
CANCELLED	.....
SAND & GRAVEL	.....

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1912, VESTED IN ORIGINAL PATENTEES BY THE LANDS ACT, R.S.O. 1910 CHAP. 380, SEC. 63.



**NOTES**

(F) THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1990. FURTHER INFORMATION AVAILABLE ON FILE.

**REFERENCES**

**AREAS WITHDRAWN FROM DISPOSITION**

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

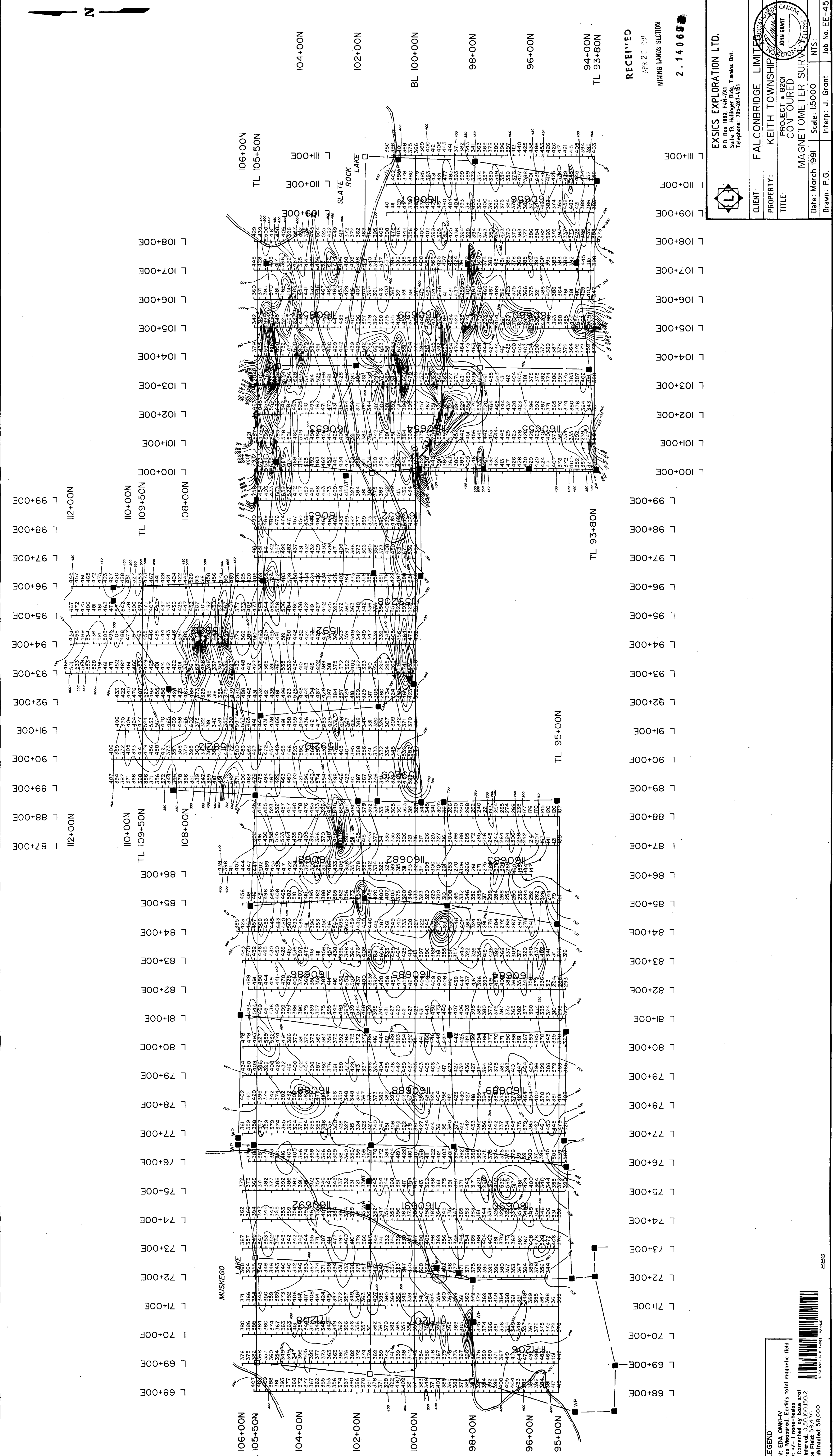
DESCRIPTION	ORDER NO.	DATE	DISPOSITION	FILE
	22	1870		43303
	30	1771	M.S.	42302
	15	1772	M.S.	42302 10, 3
	27	1772	M.S.	43302
M.N.R. RESERVE	24	1767	S.R.O.	43303


THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADVICE.

LANDS SECTION HEMERON

TOWNSHIP  
**IVANHOE**  
M.N.R. ADMINISTRATIVE DISTRICT  
CHAPLEAU  
MINING DIVISION  
PORCUPINE  
LAND TITLES / REGISTRY DIVISION  
SUDBURY






**EXSICS EXPLORATION LTD.**  
 P.O. Box 1880, P4H-7X1  
 Suite 13, Hollinger Bldg., Timmins Ont.  
 Telephone: 705-287-4151

---

**CLIENT:** FALCONBRIDGE LIMITED  
**PROPERTY:** KEITH TOWNSHIP  
**TITLE:** PROJECT # 8201  
 MAGNETOMETER SURVEY  
 CONTOURED

---

**Date:** March 1991  
**Scale:** 1:5000  
**Interp.:** J. Grant  
**Drawn:** P.G.

---

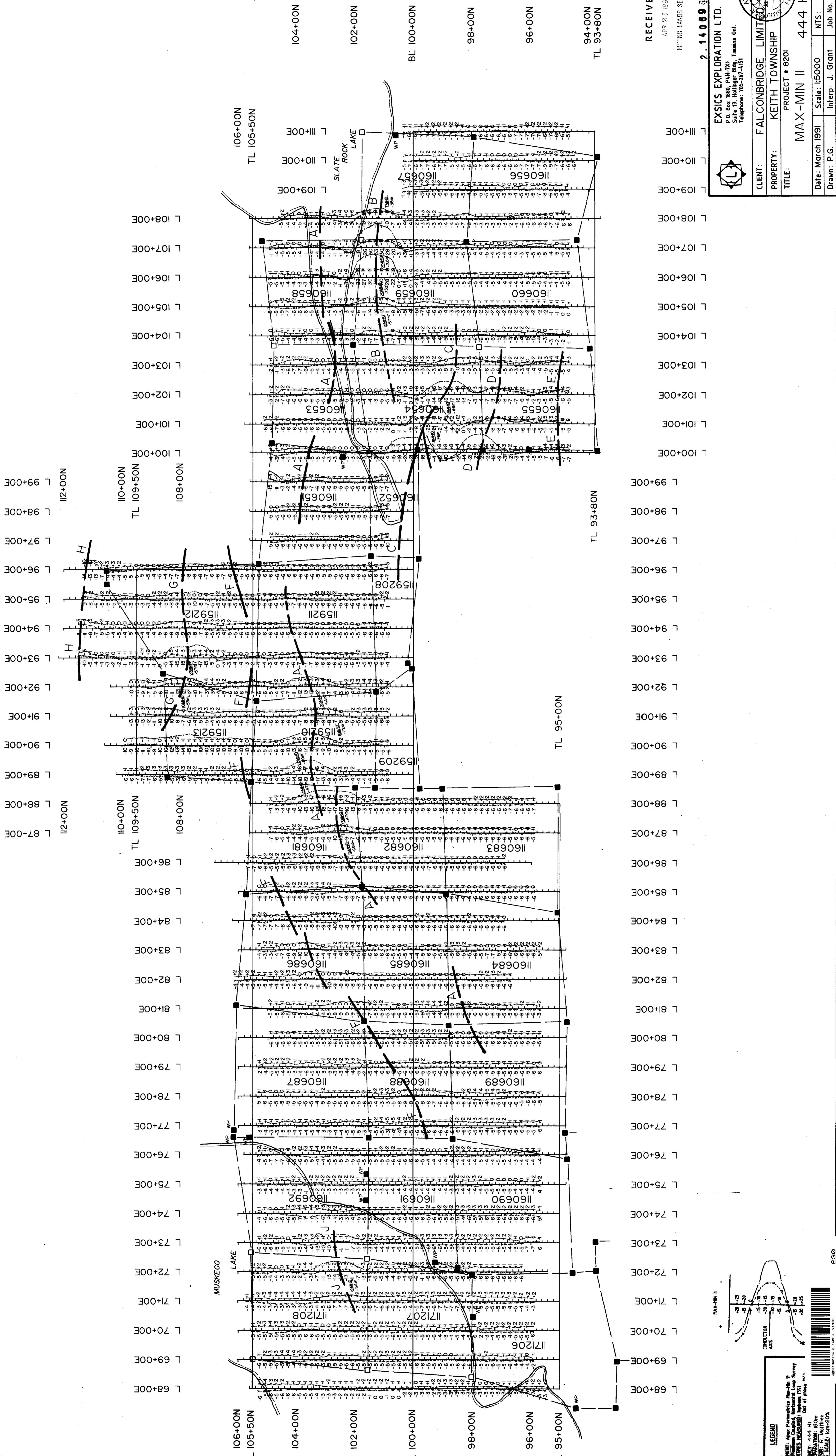
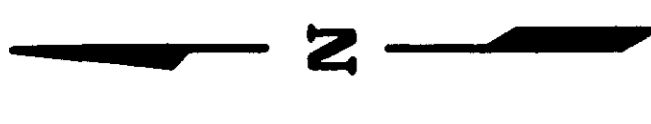
**RECEIVED**  
 APR 23 1991  
 MINING LANDS SECTION  
 2-14069

---

JOB NO. EE-455  
 NTS:

**LEGEND**  
 Instrument: EDA OMN-IV  
 Parameters Measured: Earth's total magnetic field  
 Accuracy: +/- 1 nano-tesla  
 Contour Interval: 0.50, 1.00, 15.0, 20.0  
 Reference Field: 56,430  
 Datum Subtracted: 56,000





**RECEIVED**  
APR 23 1991  
HYDRO LANDS SECTION

**2. 14 069**

**EXSICS EXPLORATION LTD.**  
P.O. Box 1880, P4H-7X1  
Suite 13, Hollinger Bldg., Timmins Ont.  
Telephone: 705-267-4751

**ASSOCIATION OF CANADIAN SURVEYORS**

CLIENT: **FALCONBRIDGE LIMIT**  
PROPERTY: **KEITH TOWNSHIP**  
PROJECT: **# 8201**  
TITLE: **MAX-MIN II**

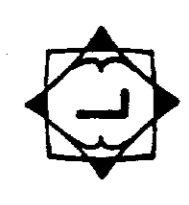
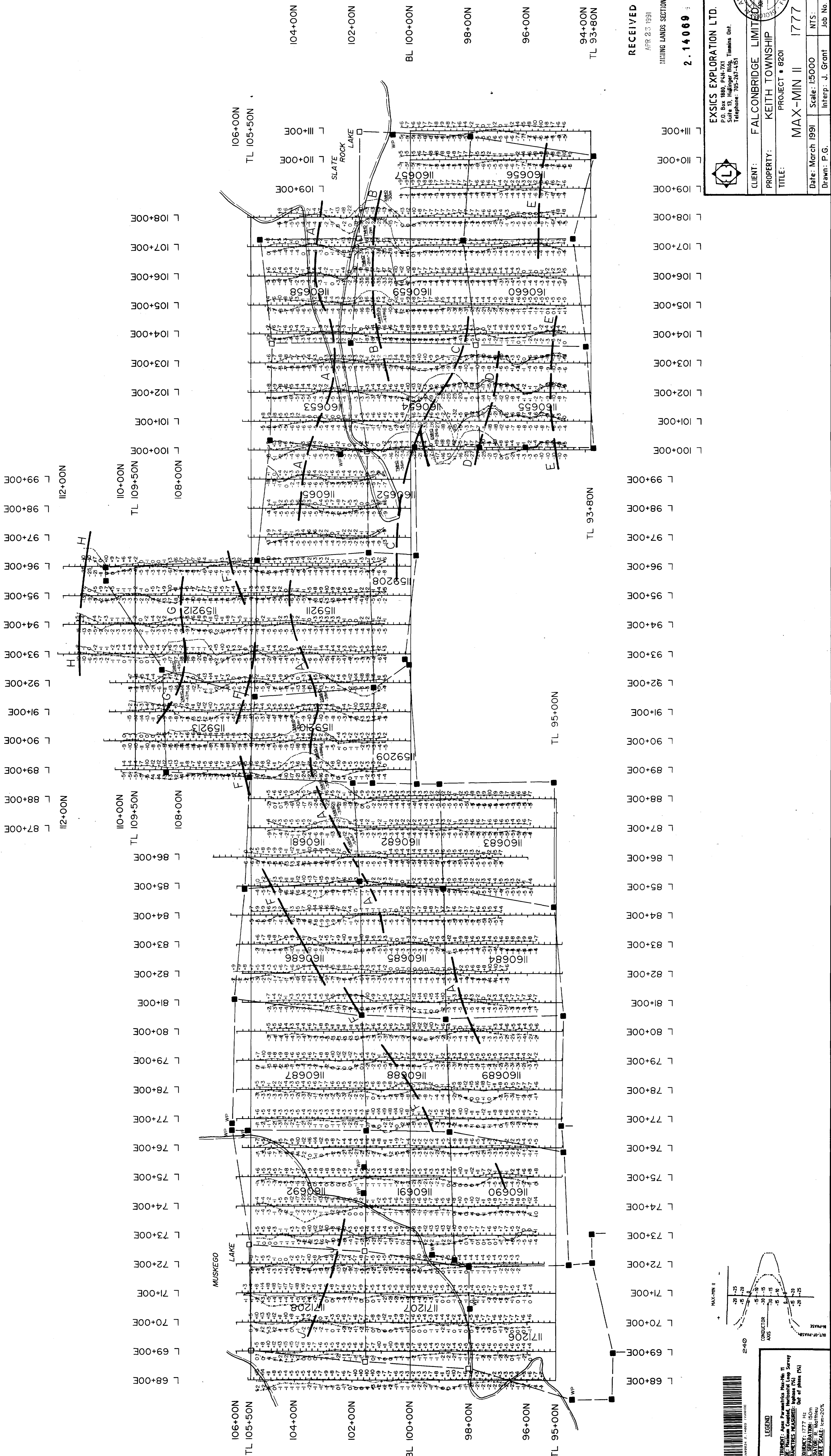
Date: March 1991 Scale: 1:5000  
Drawn: P.G. Interp: J. Grant NTS: Job No. EE-455

**LEGEND**

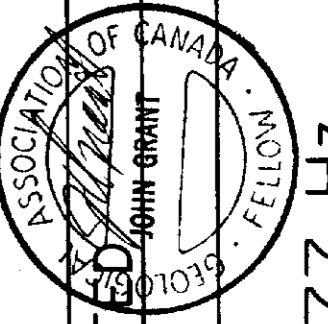
INSTRUMENT: Axiom Parametrics Model 11  
WIRE: Maximum Capacity, Horizontal Loop Survey  
PINS/STAPLES MEASURED: Yes (Y) No (N)  
Date of plates: 1991

FREQUENCY: 444 Hz  
WAVELENGTH: 66.9m  
OPERATOR: R. Mathieu  
SCALE: 1cm=20m





EXSICS EXPLORATION LTD.  
 P.O. Box 880, P4N-7X1  
 Suite 13, Ridinger Bldg, Timmins Ont.  
 Telephone: 705-267-451

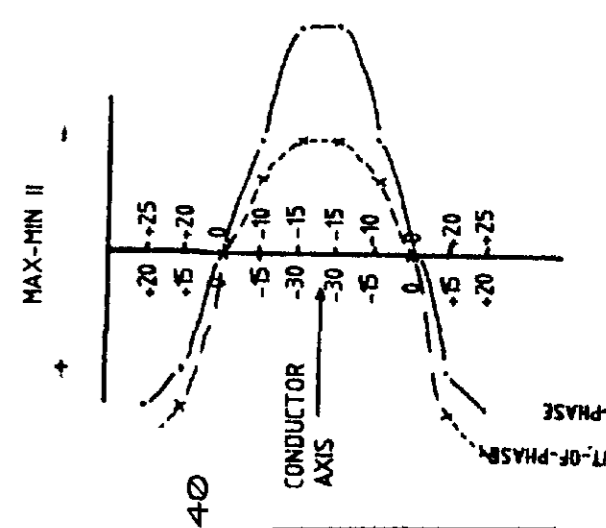


CLIENT: FALCONBRIDGE LIMITED  
 PROPERTY: KEITH TOWNSHIP  
 TITLE: PROJECT # 8201

MAX-MIN II 1777 HZ  
 Date: March 1991 Scale: 1:5000  
 Interp: J. Grant Job No. EE-455

RECEIVED  
 APR 23 1991  
 MINING LANDS SECTION

2.14069



**LEGEND**  
 INSTRUMENT: Apex Parameters Max-Min II  
 METHOD: Loop Traverse  
 PARAMETERS MEASURED: Out of phase (%)  
 FREQUENCY: 1777 HZ  
 OPERATOR: J.P.G.  
 PROFILE SCALE: 1cm=20m