



41010NE0010 2.14095 CUNNINGHAM

010

REPORT ON
GEOPHYSICAL WORK
ON
PETER LAKE PROPERTY
CUNNINGHAM TOWNSHIP
FOR
FALCONBRIDGE LIMITED

2.14095

NTS: 40-0/10 PROJ#: 8203

RECEIVED
MAY 07 1991
MINING LANDS SECTION

APRIL 1991

D. LONDY
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

A number of conductors were detected in an HLEM survey carried out over the Peter Lake property. An attempt should be made to determine the source of these zones by trenching and stripping.



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INTRODUCTION

During March 1991, a horizontal loop electromagnetic (HLEM) survey was carried out on the Peter Lake Property for Falconbridge Limited.

The property is located in the west central part of Cunningham Township, approximately 120 kilometres southwest of the city of Timmins, Porcupine Mining Division. It consists of 13 claims numbered as follows:

P-1131998 - P-1132007 inclusive

P-1132287 - P-1132289 inclusive

The property was accessed from a lumber road which turns north from the Sultan road.

The field crew included B. Pigeon and J. DerWeduwen.

PREVIOUS WORK

Interest in the area began at the beginning of the century when iron formations were looked at for their iron content. In the 1920's it was discovered that lead, zinc and copper was associated with the formations. Most of the subsequent work was carried out on the Shunsby Prospect in the north central part of Cunningham Township. Early work on the Peter Lake Property included trenching, stripping and possibly diamond drilling.

In 1958, a self-potential survey was carried out for Geo-Scientific Prospectors Limited. High readings southeast of Peter Lake were interpreted to

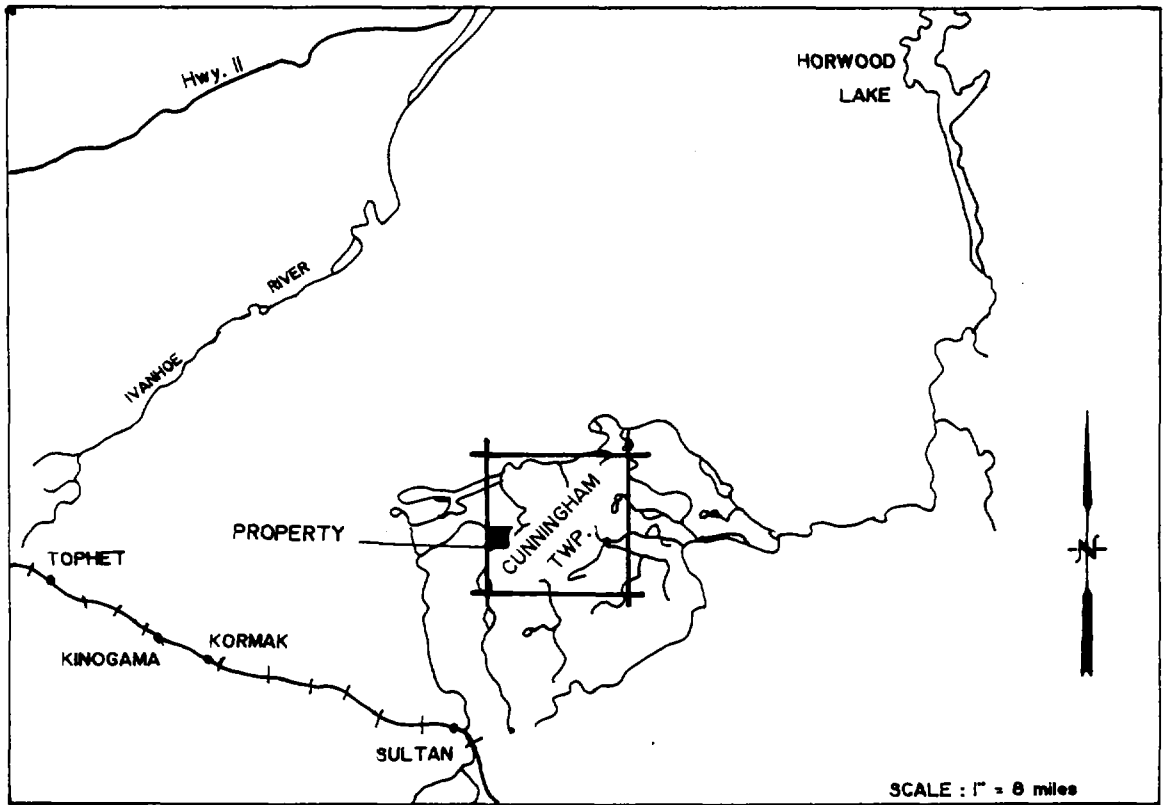


Figure 1(a) : Location Map

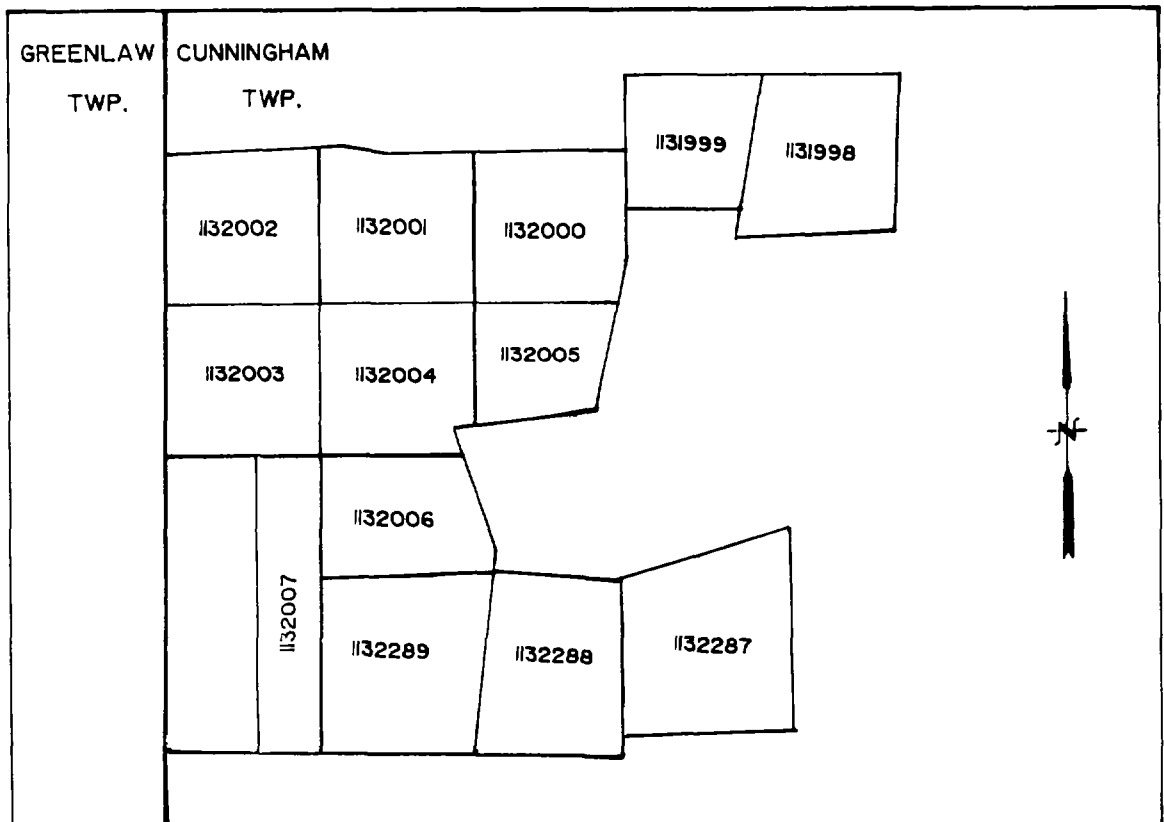


Figure 1(b) : Claim Map

reflect graphite within iron formation.

In 1965, Consolidated Shunsby Mines Limited drilled six holes, Mac1 to Mac6, to test a showing east of the present property. The best intersection ran 4.7% Zn over 16 feet in hole Mac2.

In 1982, Kidd Creek Mines Ltd. carried out geological, magnetic, very low frequency (VLF) and HLEM surveys. The cable length used in the HLEM survey was 80 metres.

In 1982, the Ontario Geological Survey released results of an airborne EM and magnetic survey of the Swayze area which included Cunningham Township.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1958	GEO-SCIENTIFIC PROSPECTORS LTD.	S.P.		2052
1965	CONSOLIDATED SHUNSBY MINES LTD.		MAC1-MAC6	2050
1982	KIDD CREEK MINES LTD.	HLEM, MAG, VLF		2512

Table 1: Summary of previous work.

GENERAL GEOLOGY

The geology of Cunningham Township is described by Meen (1942) and more recently by Siragusa (1980) on OGS map P2339.

The property is underlain by Pre-Cambrian felsic, mafic and intermediate volcanics and metasediments which have been intruded by felsic and mafic intrusives. A north-south striking Matachewan diabase dike is present on the west side of the property.

The Isaiah Creek Fault strikes north northwest along the east side of the property. Mineralized sedimentary horizons on the Peter Lake property are believed to be the same as those on the Shunsby property, offset along this fault.

SURVEY DESCRIPTIONS

The grid on the property consists of north south lines spaced every 100 metres and picketed every 10 metres.

The horizontal loop EM survey was carried out with the Apex Parametrics MaxMin I. This instrument measures the in-phase and quadrature components of the secondary field as a percentage of the primary field. Readings were taken every 20 metres using a coil separation of 120 metres and frequencies of 444 and 1777 Hertz.

HLEM RESULTS

The results of the HLEM survey are given in maps 1 and 2 at a scale of 1:5000.

A number of conductors on the property strike east west to east northeast. Anomalies 'A' to 'F' are located in the north half of the property close to mafic

diorite contacts. The rest of the anomalies reflect closely spaced conductors within an area of sediments through the middle of the property. The dip of the conductors is difficult to determine in most cases because of incomplete profiles at the edge of the property, interference from other conductors and low amplitudes in some cases.

Anomaly 'A' is located in the northeast corner of the property. The source of the anomaly on Lines 11400 to 11600 East is a very good conductor up to 10 metres wide and 38 metres below surface (Table 2). On Lines 11200 and 11300 East the conductivity thickness is much lower and the depth is greater. The profile on Line 11500 East suggests that it dips steeply to the south.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
11200 E	15000 N	5	-3	-4	38	7	
11300 E	15040 N	10	-8	-10	29	9	
11400 E	15090 N	5	-28	-14	19	57	
11500 E	15110 N	7.5	-42	-10	13	147	
11600 E	15105 N	7.5	-31	-10	22	107	

Table 2: Anomaly 'A', 444 Hz, 120 metre coil separation.

Anomaly 'B' reflects a narrow conductor between Lines 10300 and 10400 East at approximately 14700 North. The depth of the conductor is between 12 and 24 metres and the conductivity thickness is poor (Table 3).

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
10300 E	14650 N	NARROW	-11	-8	40	7	
10400 E	14730 N	NARROW	-9	-10	31	6	

Table 3: Anomaly 'B', 1777 Hz, 120 metre coil separation.

Except for a break at 10500 East, Anomaly 'C' runs from 10300 East to 10700 East southwest of Peter Lake. The source of the anomaly is a very good conductor at a depth of 22 to 51 metres (Table 4). The high frequency results extend the zone east northeast through Peter Lake to 11400 East. The source of the anomaly under the lake is a poor conductor at a shallow depth.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
10300 E	14450 N	7.5	-10	-5	51	12	
10400 E	14490 N	10	-23	-8	30	24	
10600 E	14525 N	7.5	-31	-10	22	30	
10700 E	14550 N	7.5	-25	-13	29	12	
10800 E	14610 N	NARROW	-8	-13	17	2	
10900 E	14650 N	NARROW	-3	-9	11	1	
11000 E	14660 N	NARROW	-3	-8	12	1	
11100 E	14670 N	NARROW	-7	-11	21	2	
11200 E	14690 N	NARROW	-5	-11	12	1	
11300 E	14720 N	NARROW	-8	-14	12	2	
11400 E	14750 N	NARROW	-5	-12	11	2	

Table 4: Anomaly 'C', 1777 Hz, 120 metre coil separation.

Anomaly 'E' is located on Line 11600 East at the east end of Peter Lake. The large interpreted width is likely due to two closely spaced conductors rather than one wide zone. The depth is 60 metres and the conductivity is very good (Table 5).

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
11600 E	14630 N	30	-5	-3	62	35	

Table 5: Anomaly 'E', 444 Hz, 120 metre coil separation.

Anomaly 'F' is located on Lines 10700 to 11000 East. The source of the anomaly is narrow except on Line 10900 East where a width of 10 metres is interpreted. The depth of the zone increases both east and west from the center; the conductivity thickness varies from poor, on Line 10700 East, to very good, on Line 10800 East (Table 6).

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
10700 E	14350 N	NARROW	-6	-9	24	7	
10800 E	14390 N	NARROW	-37	-16	11	71	
10900 E	14380 N	10	-24	-18	16	26	
11000 E	14360 N	NARROW	-23	-14	22	33	

Table 6: Anomaly 'F', 444 Hz, 120 metre coil separation.

Anomaly 'G' can be divided into two parts on either side of a break at 10400 East. To the west of 10400 East the conductivity of the source is poor while to the east the conductivity is very good (Table 7).

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
10000 E	14170 N	20	?	-2	?	POOR	
10100 E	14170 N	20	-6	-7	36	12	
10200 E	14170 N	NARROW	-2?	-2	48	12	
10300 E	14190 N	?	-4	-7	24	7	
10500 E	14210 N	10	-10	-9	36	21	
10600 E	14220 N	20	-35	-13	16	88	
10700 E	14190 N	20	-42	-19	6	69	
10800 E	14175 N	20	-7	-8	36	12	

Table 7: Anomaly 'G', 444 Hz, 120 metre coil separation.

Anomaly 'H' is a weak, mainly quadrature anomaly approximately 50 metres south of Anomaly 'G'. It is difficult to interpret because of its low amplitude, poor conductivity and proximity to Anomaly 'G'.

Anomaly 'J' is located at 14000 North on Lines 10400 and 10500 East. The more positive response in the middle of the anomaly suggests the presence of two conductors spaced 80 metres apart. The results from the 1982 survey, using an 80 metre cable, however, do not separate the two zones. The high frequency results show that poor conductivity continues east to 10700 East.

Anomaly 'K' is located between Lines 10700 and 11000 East at approximately 13800 North. The width on Lines 10700 and 10800 East suggests that there are two conductors present; the conductivity is fair to very good (Table 8). There are at least three conductors to the east of 10800 East. The outer limits of

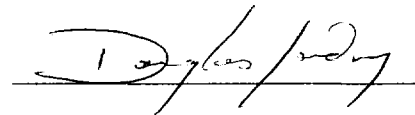
the conductors are the only parameter which can be interpreted.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
10700 E	13755 N	35	3	3	48	12	2 ZONES
10800 E	13770 N	30	20	8	34	83	2 ZONES
10900 E	13780 N	80	?	?	?	?	3 ZONES
11000 E	13785 N	90	?	?	?	?	3 ZONES

Table 8: Anomaly 'K', 444 Hz, 120 metre coil separation.

APRIL 11, 1991

DATE

2.2289


DOUG LONDREY
 TIMMINS GEOPHYSICS LTD.

REFERENCES

Meen, V.B., 1942

Geology of the Cunningham-Garret Area, Vol II Part 7, Ontario department of Mines, Annual Report, 1942.

Siragusa, G.M., 1980

Cunningham Township Area, district of Sudbury; Ontario Geological Survey Prelim. Map P.2339 Geological Ser.

APPENDIX A



Report of Work
(Geophysical, Geological and Geochemical Surveys)

Mining Lands Section, Mineral Development and Lands Branch:

Type of Survey(s) GEOPHYSICAL	Mining Division PORCUPINE	Township or Area CUNNINGHAM TOWNSHIP
Recorded Holder(s) FALCONBRIDGE LIMITED	Prospector's Licence No. A-21647	
Address P.O. Box 1140, Timmins, Ontario P4N 7H9		Telephone No. 705-267-1188
Survey Company TIMMINS GEOPHYSICS LTD.		
Name and Address of Author (of Geo-Technical Report) D. Londry, P.O. Box 1783, South Porcupine, Ontario PON 1H0		Date of Survey (from & to) 13 03 91 18 03 91

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1131998				
	1131999				
	1132000				
	1132001				
	1132002				
	1132003				
	1132004				
	1132005				
	1132006				
	1132007				
	1132287				
	1132288				
	1132289				

RECEIVED
APR 17 1991
MINING LANDS SECTION

RECORDED
MAR 27 1991

Total miles flown over claim(s):

Date: **March 26/91** Recorded Holder or Agent (Signature): *D.L. Londry*

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

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: **Doug Cruij, 571 Moneta Ave, Box 1140 Timmins, Ont., P4N 7H9**

Telephone No.: **(705) 267-1188** Date: **Mar. 27/91** Certified By (Signature): *D.L. Londry*

For Office Use Only

Total Days Cr. Recorded 520	Date Recorded MAR. 27/91	Mining Recorder <i>David Kozak</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands

"ACTS"

'SEE REVISED WORK STATEMENT'

PORCUPINE MINING DIVISION
RECEIVED
counters
MAR 27 1991

2:15 pm

Recorded Name Falconbridge Limited
 Township or Area Cunningham Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>40.0</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Grounds <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.	P.1131999 to 1132007 incl. 1132287 to 1132289 incl.

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

P.1131998: 30 days Electromagnetic

Note: Credits have been reduced due to partial coverage.

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) - 80.



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Telephone: (705) 670-7264
Fax: (705) 670-7262

Your File: 'W. 9160.00102
Our File: 2.14095

June 28, 1991

Mining Recorder
Ministry of Northern Development
and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir/Madam:

RE: Notice of Intent dated May 28, 1991 for Geophysical
(Electromagnetic) Survey on mining claims P.1131999
et al in Cunningham Township.

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,

Ron. C. Gashinski,
Provincial Manager, Mining Lands
Mines & Minerals Division

CDS
CDS/jl

Enclosures:

cc: Falconbridge Limited
Timmins, Ontario

Timmins Geophysics Ltd.
South Porcupine, Ontario

✓ Assessment Files Office
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Mr. Doug Cruji
Timmins, Ontario



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) GEOPHYSICAL
Township or Area CUNNINGHAM
Claim Holder(s) FALCONBRIDGE LIMITED
P.O. Box 1140, Timmins, Ontario P4N 7H9
Survey Company TIMMINS GEOPHYSICS LTD.
Author of Report D. Londry
Address of Author P.O. Box 1783, South Porcupine, Ont. P0N 1H0
Covering Dates of Survey March 13, 1991 - March 18, 1991
(linecutting to office)
Total Miles of Line Cut 24.45 km

MINING CLAIMS TRAVERSED
List numerically

Table with 2 columns: (prefix) and (number). Lists mining claim numbers from 1131998 to 1132289.

SPECIAL PROVISIONS CREDITS REQUESTED table with columns for Geophysical, Geological, Geochemical and DAYS per claim.

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: APR. 10/91 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2.2289

Table with 4 columns: File No., Type, Date, Claim Holder. Title: Previous Surveys

TOTAL CLAIMS 13

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1198 Number of Readings HLEM - 1090
Station interval 20 metres Line spacing 100 metres
Profile scale 1 cm = 40% (444 & 1777 Hz)
Contour interval _____

MAGNETIC

Instrument _____
Accuracy – Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument Apex Parametrics MaxMin I
Coil configuration Horizontal Loop
Coil separation 120 metres
Accuracy 1 %
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 444 Hz - 1777 Hz
(specify V.L.F. station)

Parameters measured In-phase and quadrature components of secondary field measured as percent of primary field.

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

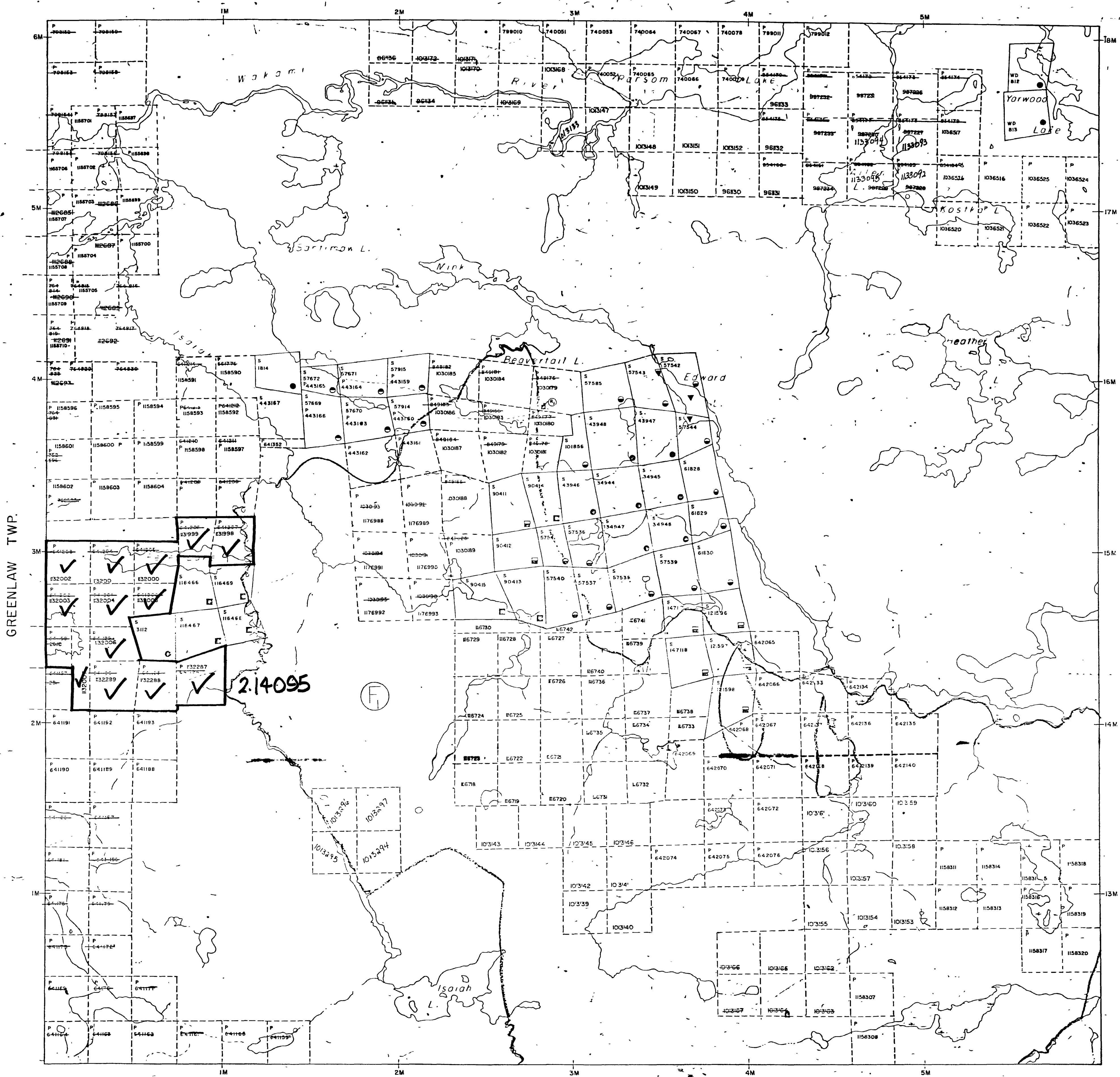
INDUCED POLARIZATION RESISTIVITY

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 _____

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

Description Order No. Date Disposition File
 CROWN RESERVE

SWAYZE TWP.

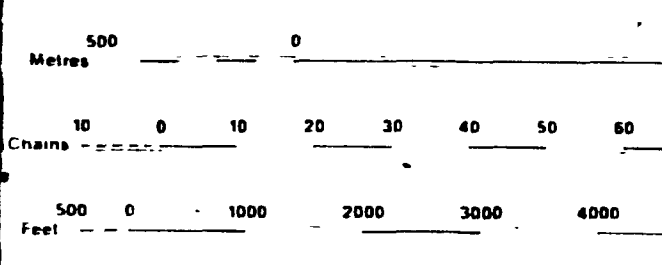


- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP BASE LINES ETC
- LOTS MINING CLAIMS PARCELS ETC
- UNSURVEYED LINES
- LOT LINES
- PAVEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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

DISPOSITION OF CROWN LAND

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 1913 VESTED IN ORIGINAL PATENTEE BY THE LANDS ACT R.S.O. 1910 CHAP. 380 SEC. 63 SUB



SCALE 1:20 000

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

GREENLAW TWP.

GARNET TWP.

BLAMEY TWP.

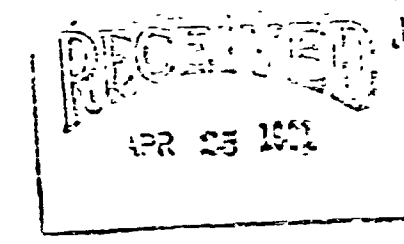
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING

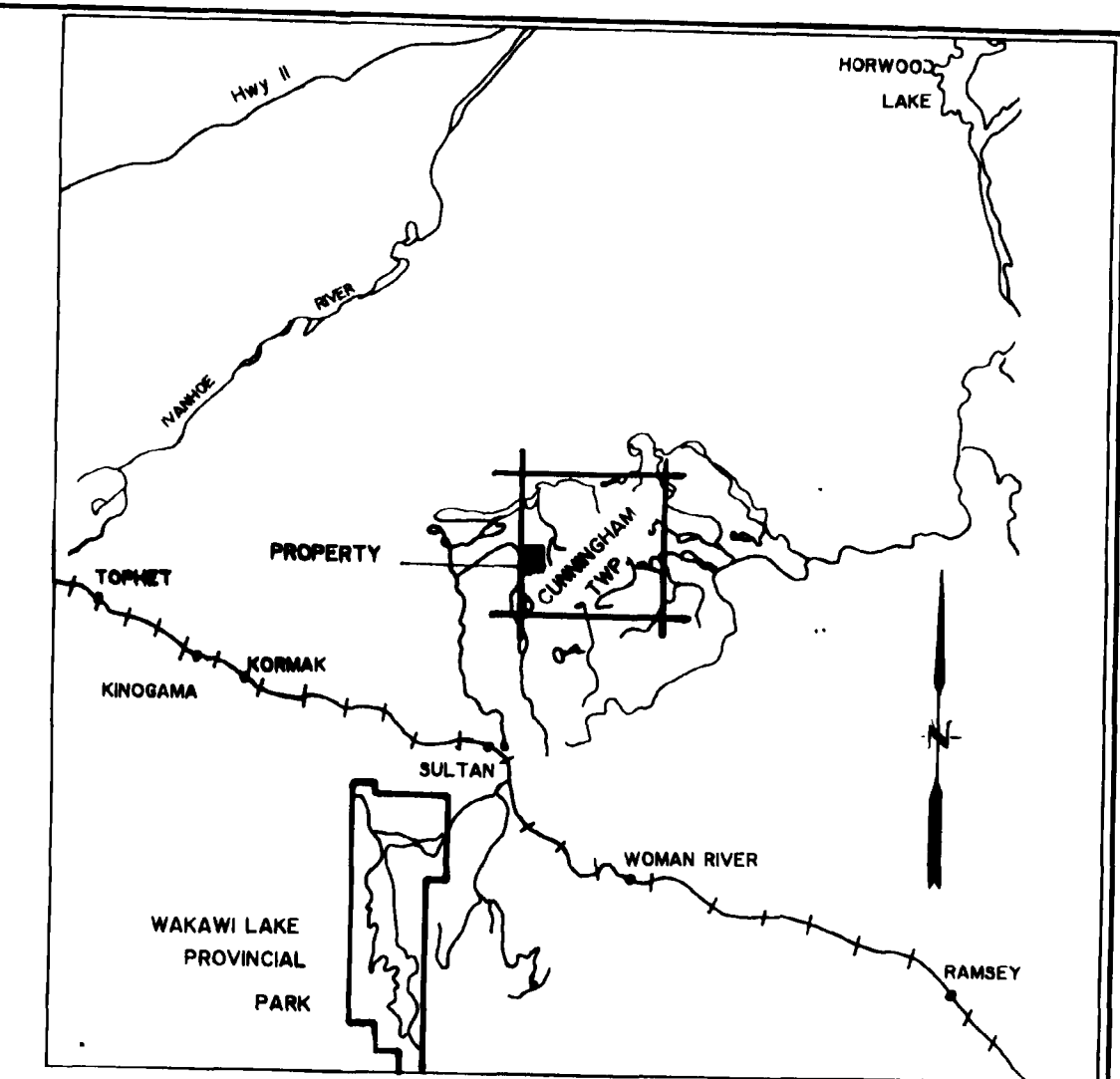
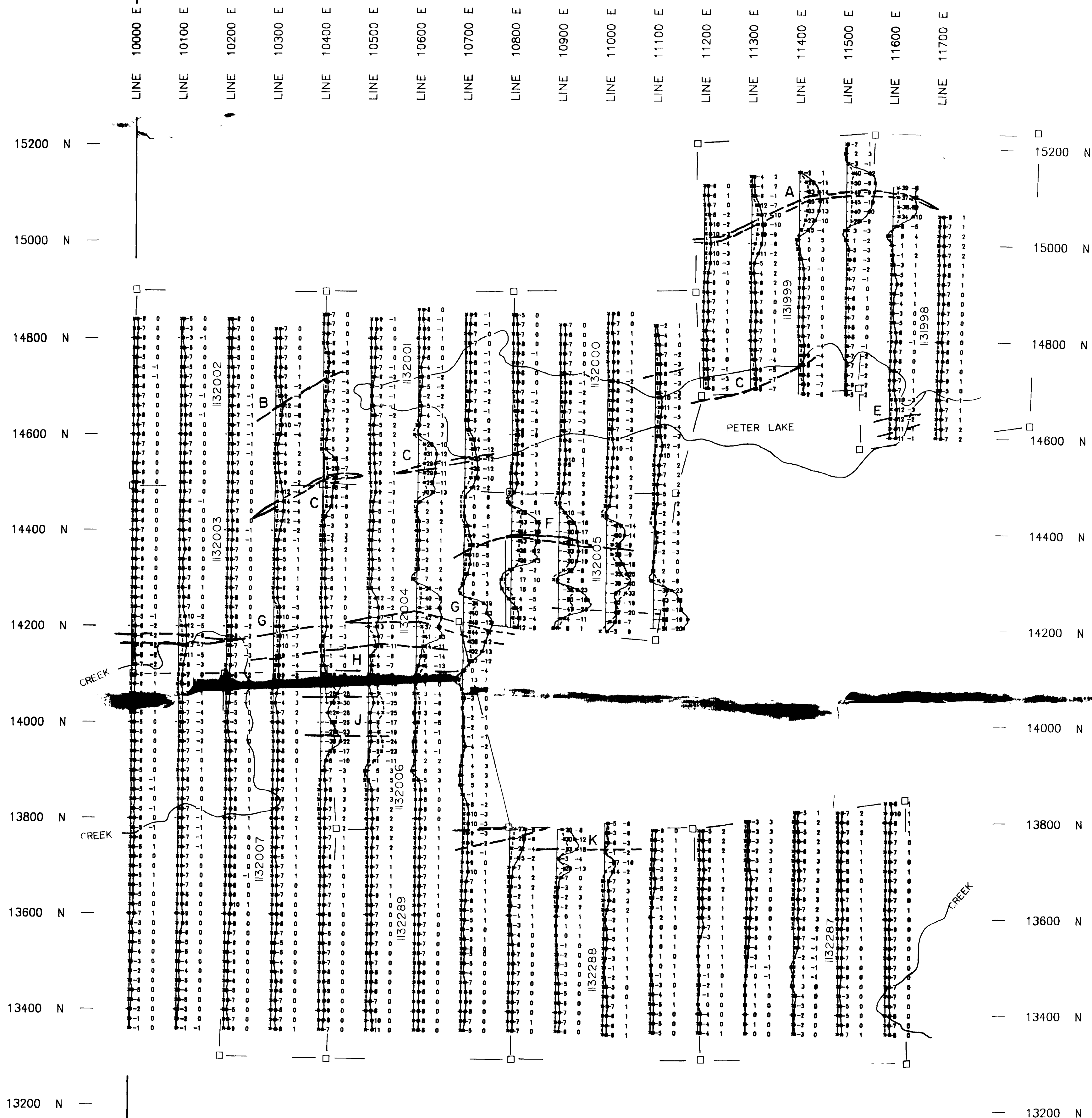


TOWNSHIP
CUNNINGHAM
 MNR ADMINISTRATIVE DISTRICT
 CHAPLEAU
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 SUDBURY

Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

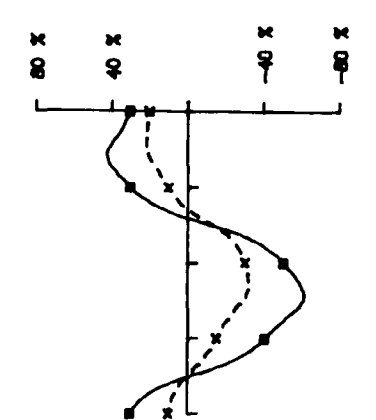
Date: AUGUST, 1986
 Number: G-109





KEY MAP SCALE 1" = 8 miles

--- Anomaly
 Clamposts
 □ Unlocated
 Instrument : Apex Parametrics MaxMin I
 Frequency : 444 Hz
 Coil Separation : 120 Metres
 Profile Scale : 1 cm = 40%

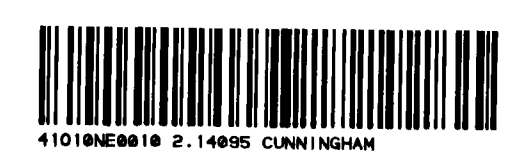


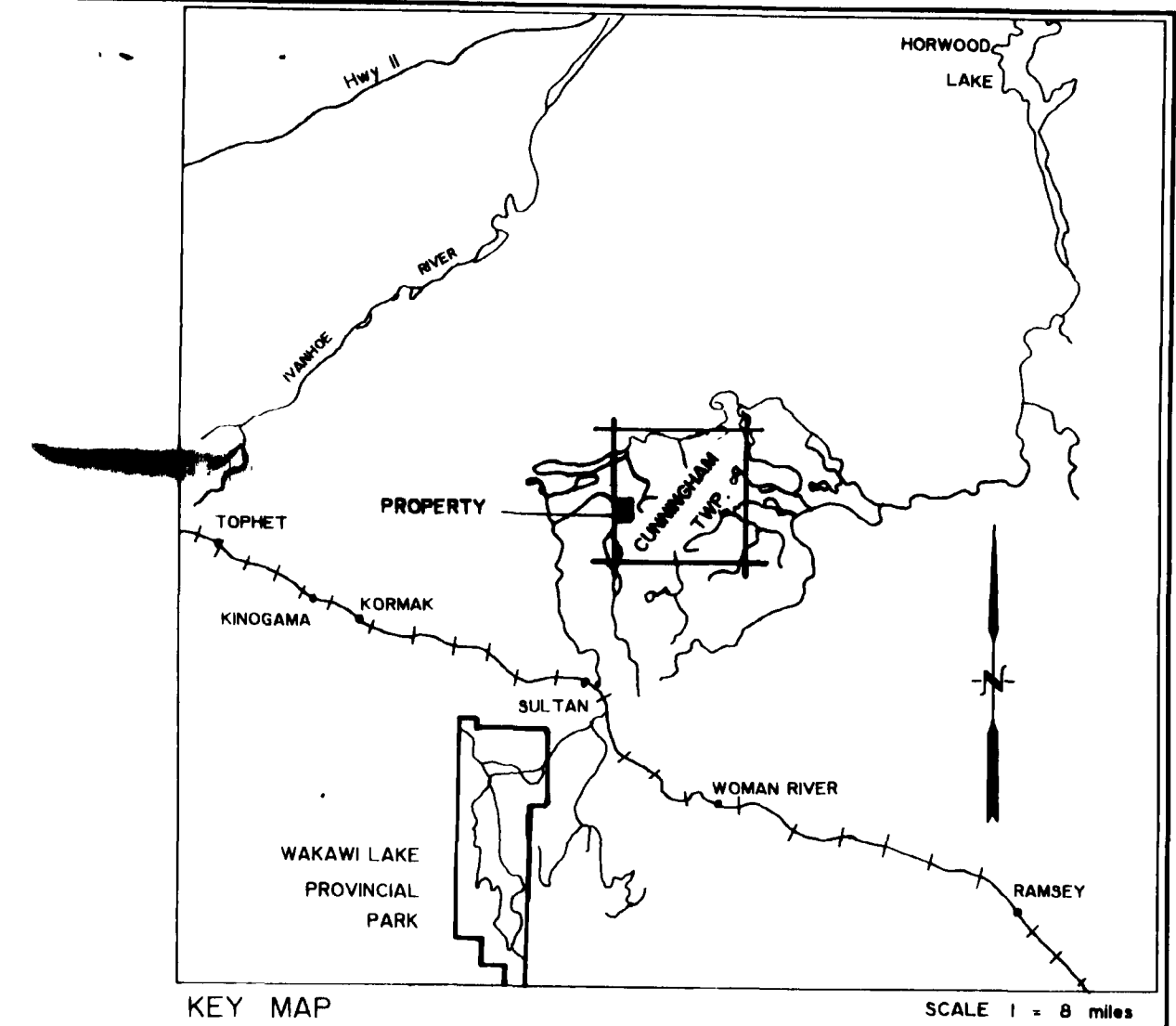
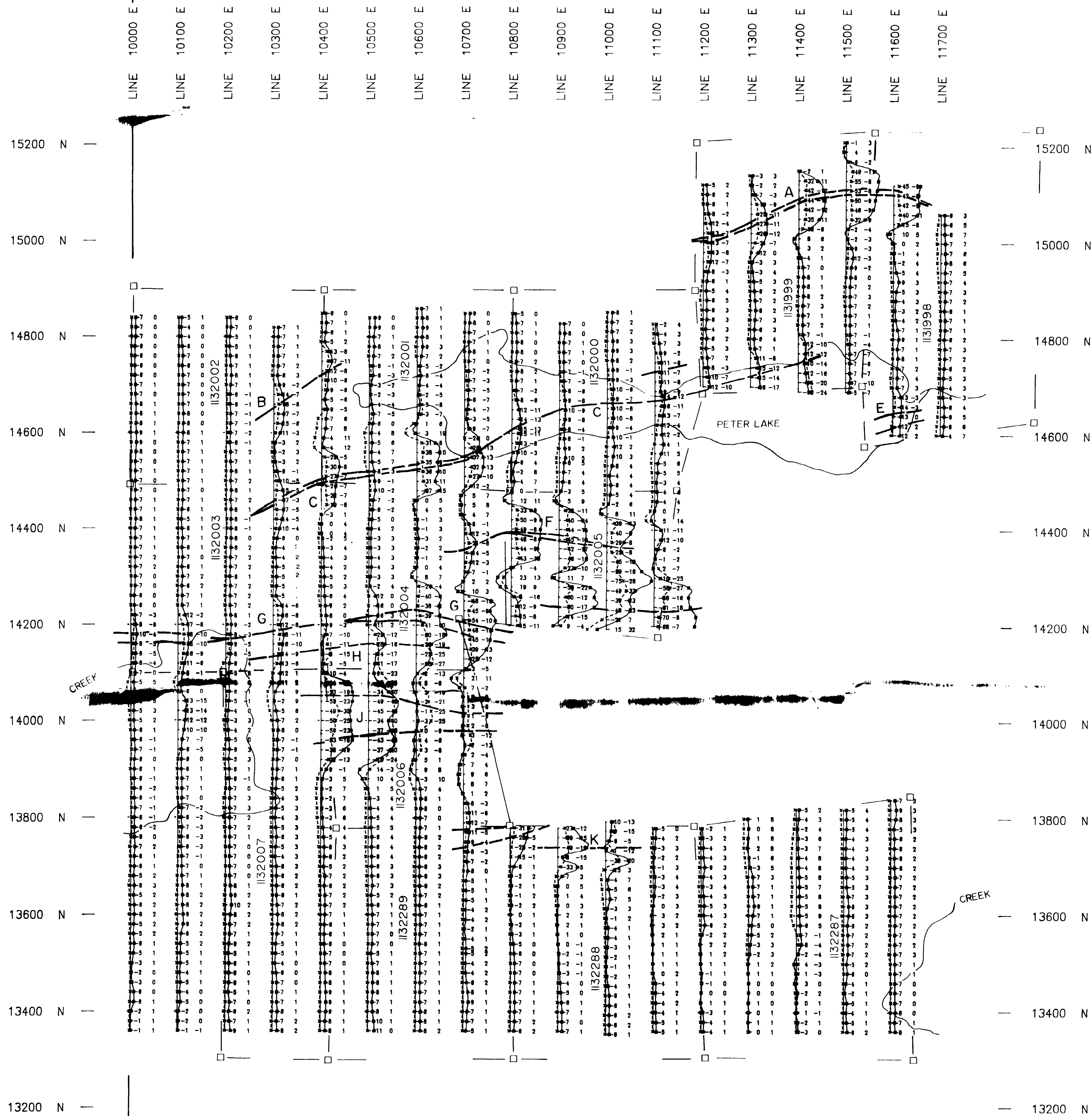
2.14095

In-phase
 Quadrature

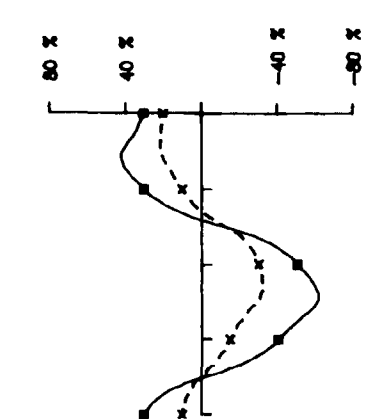
FALCONBRIDGE LIMITED	
HLEM SURVEY	
PETER LAKE PROPERTY CUNNINGHAM TOWNSHIP	
NTS : 40-0/10	PROJ # : 8203
SCALE : 1 : 5000	DATE : MARCH 1991
FILE : CUNASS.HL	<i>[Signature]</i>
WORK BY :	Timmins Geophysics Ltd.

GREENLAW TWP. CUNNINGHAM TWP.
 LINE 10000 E LINE 10100 E
 LINE 10200 E LINE 10300 E
 LINE 10400 E LINE 10500 E
 LINE 10600 E LINE 10700 E
 LINE 10800 E LINE 10900 E
 LINE 11000 E LINE 11100 E
 LINE 11200 E LINE 11300 E
 LINE 11400 E LINE 11500 E
 LINE 11600 E LINE 11700 E





Claimposts
 □ Unlocated
 --- Anomaly ---
 Instrument : Apex Parametrics MaxMin I
 Frequency : 1777 Hz
 Coil Separation : 120 Metres
 Profile Scale : 1 cm = 40%



2.14095

In-phase ———
 Quadrature - - - - -

FALCONBRIDGE LIMITED	
HLEM SURVEY	
PETER LAKE PROPERTY CUNNINGHAM TOWNSHIP	
NTS : 40-0/10	PROJ #: 8203
SCALE : 1: 5000	DATE : MARCH 1991
FILE : CUNASS.HL	<i>[Signature]</i>
WORK BY : Timmins Geophysics Ltd.	

GREN LAW TWP. CUNNINGHAM TWP.

