



41009SE0009 2.7035 HUFFMAN

010

RECEIVED
AUG 13 1984
MINING LANDS SECTION

REPORT ON
ELECTROMAGNETIC (H.E.M.) and MAGNETOMETER SURVEY

ON

POTIER AND HUFFMAN TOWNSHIP PROPERTIES

FORCING MINING DIVISION
RECEIVED
AUG 10 1984
A.M.
7 8 9 10 11 12 1 2 3 4 5 6

FOR

HARGOR RESOURCES INC.
VANCOUVER, B.C.

July 9, 1984

John R. Boissoneault, B.Sc. P.Eng.
Geologist, Engineer

Handwritten: Eval 2:140

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
GEOLOGICAL BACKGROUND	2
INSTRUMENTATION AND PROCEDURE	3
MAGNETICS	5
ELECTROMAGNETICS	7
LOCAL GEOLOGY	9
CONCLUSIONS AND RECOMMENDATIONS	10

APPENDIX

- (1) Location and Claim Map
- (2) Magnetic Contours, Potier Block
- (3) Magnetic Contours, north Huffman Block
- (4) Magnetic Contours, south Huffman Block
- (5) H.E.M. Profiles, Potier Block
- (6) H.E.M. Profiles, north Huffman Block
- (7) H.E.M. Profiles, south Huffman Block
- (8) V.L.F. Profiles, Potier Anomalous Area

INTRODUCTION

During the period of June 10 to June 18, 1984, a geophysical field party carried out a magnetometer and horizontal loop electromagnetic survey on three claim blocks belonging to Hargor Resources Inc. Two of these properties are in Huffman Township, while the other is in Potier Township, in the Porcupine Mining Division of northeastern Ontario. This work was done under the supervision of a professional engineer.

The three survey grids consisted of cut-out and chained, north-south picket lines, 300 feet apart, with stations established every 100 feet, a total of 20.7 miles. The location of the grid, relative to the property boundaries is shown on both the H.E.M. and magnetic plans, and the individual claim lines are shown on the H.E.M. plans, at a scale of 1 inch = 200 feet.

The Potier block consists of a nine claim square, in the southwest quarter of the township; these are identified as follows: P-588651 to P-588659 inclusive. The Huffman blocks consist of two four claim squares, in the southeast quarter of the township; these are identified as follows: north block - P-583535 to P-583538 inclusive, south block - P-583531 to P-583534 inclusive. All the claims are shown on the "Location and Claim Map", along with the regional geology.

All three properties cover low lying, relatively flat areas, with little relief, and contain swampy sections. In

all three cases, a small lake adjoins or lies very close to the claim block. The overburden is quite thin, and there are several outcrop, particularly on the Potier claim block.

One of the purposes of the survey was to locate subsurface concentrations of metallicly conducting mineralization, with anomalous magnetic susceptibility, which might occur beneath the grid covered, and within the range of the instruments. Some of the gold bearing ore deposits in the Precambrian Shield, occur as bodies of auriferous pyrite which are sometimes distinguishable from the enclosing rocks by their electrical conductivity. Another purpose was to discover possible mineralized shear zones or other structures containing gold or other metals; these zones are usually conductive at the frequency employed. It was also hoped that the magnetics might provide additional data which could be used to interpret the geology and the structural features on the property.

Unfortunately, anomalous geophysical responses may also be caused by features which have little or no commercial significance. These are often undistinguishable from features of interest, by the geophysical means employed.

GEOLOGICAL BACKGROUND

The areas surveyed lie within a belt of meta-volcanic rocks, which make up the lower part of the north limb of the Swayze Syncline. This part of the Syncline consists mainly of sheared tholeiitic basaltic flows of

Archean (early Precambrian) ages, which are mainly fine grained but contain massive, medium to coarse grained sections. Locally, the strike of the flows is north-70°-west (290°), and the dip is steep and to the south. Several belts of intermediate to felsic pyroclastics, tuffs and cherts occur concordantly within the mafic metavolcanics, and have been located on both the Potier claim block and the north Huffman claim block. The stratigraphically overlying elastic and chemical meta-sediments of the inner part of the syncline are found to the south of the properties and actually underlie the southwest corner of the south Huffman block. The regional granitic plutonic rocks lie in contact with the metavolcanics along a line striking north-70°-west (parallel to these formations), which crosses the northeast corners of both the Potier and north Huffman claim blocks.

A large fault zone, striking north-15°-west, crosses the western half of Potier Township and touches the northeastern corner of that claim block. The east side, of the break, has been displaced northward for about 2,500 feet. This fault belongs to the same set as the "Jerome Fault", which lies about six miles to the west, and is considered to have much bearing on the localization of the gold deposits at the Jerome Mine.

INSTRUMENTATION AND PROCEDURE

A G.E.M. systems, GSM-8, proton precession magnetometer was used for the survey, with readings taken every 100 feet along the picket lines, to an accuracy of ± 1 gamma.

This instrument measures the value of the earth's total magnetic field, at the place where the reading is taken. It is extremely accurate, especially for low gradients, and is subject only to diurnal variation and not to other drift factors. The "tie in" procedure used was as follows; the survey is conducted in loops, (6N, 9N, 6S); then the base line stations are read during a short interval, and the readings from the cross lines are adjusted to the base line stations. The corrected readings are presented on the plan entitled "Magnetic Contours", at a contour interval of 100 gamma and a scale of 1 inch = 200 feet.

A Max-Min II electromagnetic unit was used for the H.E.M. part of the survey, at a frequency of 1777 Hz. This frequency was selected because it is considered to be high enough to indicate the features anticipated to be of interest (mineralized shear zones), but not high enough to pick up conductive overburden to the extent that it would mask the desired features. The horizontal loop configuration (loops horizontal and coplanar) is utilized, and the cable length selected was 100 meters. The transmitting and receiving coils are moved in line, held at constant separation by the cables, through which is passed a reference signal. The inphase and outphase components of the resultant electromagnetic field are measured at the receiver and are expressed as a percentage of the free air primary field. These are presented in profile on three plans entitled "H.E.M. Profiles". The surface scale is 1 inch = 200 feet and the H.E.M. scale is 1 inch = 20%.

Detail work was done over the anomalous area on the Potier Block using a Geonics EM-16 (V.L.F.) electromagnetic unit and are shown on the plan entitled "V.L.F. Profiles". Transmission from Annapolis, Maryland, at a frequency of 21.4 kilohertz was utilized. The purpose was to precisely locate the axis of conductivity and to better ascertain its dip. At the same time, a cursory examination of several outcrop in the vicinity was carried out by the writer. The results of this examination are discussed in this report.

MAGNETICS

The magnetometer survey results show that there is considerable magnetic relief on all three claim blocks, due to the thin overburden cover and the large difference in magnetic susceptibility of the individual lithological units which make up this section. The regional formational trend of north-70°-west is, in general, clearly reflected by the linear magnetic crests and troughs, in all three cases.

On the south Huffman block, iron bearing clastic sediments, crossing the southwestern and southern parts of the property are indicated by the moderate magnetic relief. The magnetics on the remainder of the block are relatively low and flat, suggesting a thick, generally uniform section of massive metavolcanics, probably of intermediate to felsic composition. A north-south striking fault crosses the block between lines 6+00 and 9+00, the displacement being,

east side southward, 300 to 400 feet. A long narrow magnetic high of about 1000 gamma, in the southwest quarter of the block, changes its strike of north-70°-west as it approaches this fault, turning southward.

The fault, described in the preceding paragraph, also crosses the north Huffman block between line 6+00 and 9+00. To the west of the fault, the magnetic trend is north-50°-west, but on the east side, it is generally approximately east-west. There is a sharp magnetic ridge, the background dropping by 1000 gamma from north to south along a line which crosses the property just north of the base line. A similar ridge also crosses the property from 5+00 south to 10+00 south, with the magnetics rising to the south. These are probably caused by formations of tholeiitic basalts to the north and south, and a more felsic volcanic formation in the center.

The magnetic trends on the Potier block generally follow the regional strike of north-70°-west and show considerable variation, across the area, reflecting changes in the lithology of the underlying units. The most prominent feature, on this property, is a long linear magnetic crest of from 1000 to 2000 gamma, lying from 200 to 400 feet south of the base line between 15+00 and 30+00. Associated with it is a magnetic low, to the north at about 1+00 south; it is particularly broad and intense at the base line at line 27+00. The magnetic crest has an east-west strike, but is displaced in at least two places, by north-west striking faults, one between lines 21+00 and 24+00 and the

other between lines 27+00 and 30+00. In both cases the displacement is east side southward for from 200 to 300 feet.

North of this feature, and along the southern edge of the block, the magnetic background is somewhat higher than average, but in between these areas it is relatively low and somewhat flatter. This suggests a situation similar to that on the north Huffman block with the more mafic volcanic members to the north and south and a less mafic section in the center. The northern part of the claim block contains more equidirectional magnetic features due to the underlying regional granites. However, these must contain large basaltic remnants as evidenced by the linear highs in the northeast corner.

There is a large, broad magnetic low, in the south central part of the property. It is most intense at 15+00 south on line 30+00 and extends westward to line 12+00. This is the only magnetic feature, on this claim block, which is clearly not displaced by the two faults, even though it is most intense in the region between them.

ELECTROMAGNETICS

The horizontal loop survey has failed to detect any anomalous conductivity on the south Huffman block. However, one interesting conductor was located on the

north Huffman block. It is strongest on line 9+00, between 2+00 and 8+00 north and seems to have two axes, striking north-70°-west (formational strike) up to the north-south fault. To the west of the fault, the anomaly is displaced northward and strikes east-west, the conductivity being somewhat less. The conductive zone seems to cross the magnetic ridge, to the north of the base line described under "magnetics". Two other conductors were detected, south of the base line on the western half of the claim block; these are also displaced by the fault in the same way, but are weaker and follow the regional trend, suggesting that they are formational features.

The most important electromagnetic anomaly detected by the horizontal loop survey is located in the central portion of the Potier block, just south of the base line. It is closely associated with the long linear magnetic crest described under "Magnetics", and appears to have two parallel axes about 200 feet apart, one on each flank of the magnetic high. Both axes are displaced by the fault between lines 21+00 and 24+00, and both have a total length of about 1,200 feet, having been detected on lines 18+00, 21+00, 24+00 and 27+00. East of the fault, the strike of the anomaly is east-west, but west of the fault, the strike is south-70°-west; in both cases it is different from the regional trend. The conductivity is moderate to strong and the dip is indicated as being almost vertical, slightly southward on the west side of the fault and slightly northward on the east side. There are several other conductive

zones on the Potier block, but these are very weak and of secondary importance at this time.

The V.L.F. detail work, on the main Potier block anomaly, shows a single axis of strong conductivity which coincides with the magnetic peaks at 1+75 on line 18+00, 1+80 on line 21+00, 3+30 on line 24+00 and 4+10 on line 27+00. Comparing the profiles on lines 21+00 and 24+00 shows that the conductor dips steeply south, west of the fault and steeply north, east of the fault.

LOCAL GEOLOGY

The examination of several outcrop in the central portion of the Potier block has made it possible to produce a rough outline of the geology in the vicinity of the main anomalous area. There is not sufficient data, at present, to produce an accurate geological map, but it appears that the lithological section from north to south, is as follows:

- (1) regional granites
- (2) amphibolite gneiss, grading into (3)
- (3) massive, medium grained, tholeiitic basalts becoming finer grained, foliated, chloritic to the south
- (4) massive, coarse grained, epidotized basalt
- (5) felsic to intermediate, thinly banded tuffs with interflow sediments (siltstones) becoming sheared and sericitized to the south
- (6) recrystallized iron formation, or exhalite containing quartz stringers and chert bands, interlayered with felsic and mafic tuffs, much oxidation, some alteration

- (7) thinly banded mafic tuffs
- (8) massive, chloritized, intermediate metavolcanics.

Although there are local variations, the strike of all these units is generally N-70°-W (290°) and the dip is steep and southward.

The long linear magnetic crest appears to be a reflection of (6) and the H.E.M. conductor axes seem to lie along the north and south edges of this formation, where it has been distorted and displaced by the faults; in this area it is covered by overburden, so the cause of the anomalies is unknown, at this time.

CONCLUSIONS AND RECOMMENDATIONS

The geophysical survey has located at least two anomalous areas on the Hargor Resources properties which are high priority targets for subsurface exploration. The first of these is the Potier block anomaly. Here, zones of anomalous conductivity are found along the edges of an ironstone formation. This unit is exposed, near the base line, about 900 feet west of the anomaly; here it shows considerable oxidation, even though, at this locality, it is not conductive. The anomalous conditions are found where the ironstone has undergone considerable stress causing distortion and displacement. Since these formations are known to contain low gold values in the south part of the Swayze belt, the possibility of the conductivity being caused by auriferous sulfides must be

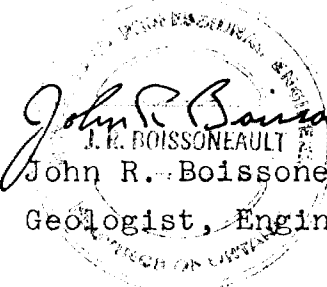
considered, especially in the structural environment within which these anomalies are found. Because of the thin overburden, it may be possible to test the anomalies by surface stripping, and this alternative to diamond drilling should be considered.

The second high priority target lies in the north central section of the north Huffman block. Here, a conductive zone lies along a magnetic ridge, which is presumed to be a mafic-felsic contact. At this point the contact appears to be folded along a vertical axis or displaced by a north-south trending fault. This is also an excellent structural environment for the localization of sulfide masses, and the possibility of auriferous sulfides must again be considered. This anomaly should also be tested by subsurface exploration, using surface stripping, if this is deemed possible.

If diamond drilling is necessary, the recommended program would consist of at least 3 holes, all approximately 600 feet deep, for a total of 1800 feet. Two holes should be drilled on the Potier block anomaly, one collared at 4+00S on line 18+00, drilled northward at -45° and the other collared at 1+50S on line 24+00, drilled southward at -45° . The third hole should be drilled on the north Huffman block, collared at 1+00 north on line 9+00 and directed northward at -45° . This program should be facilitated by the fact that a good access road crosses the Potier block, about 900 feet from the anomaly, and a

winter road passes about 800 feet south of the north Huffman block, about 2,200 feet from the proposed drill hole location.

Respectfully submitted,

A circular professional seal for John R. Boissoneault, a Professional Engineer. The seal contains the text "PROFESSIONAL ENGINEER" at the top, "J. R. BOISSONEAULT" in the center, and "PROVINCIAL ENGINEERING SOCIETY OF ONTARIO" at the bottom. The seal is partially obscured by the signature and typed name.
John R. Boissoneault
John R. Boissoneault, B.Sc., P.Eng.
Geologist, Engineer

LOCATION AND CLAIM MAP HARGOR RESOURCES INC.

ONTARIO

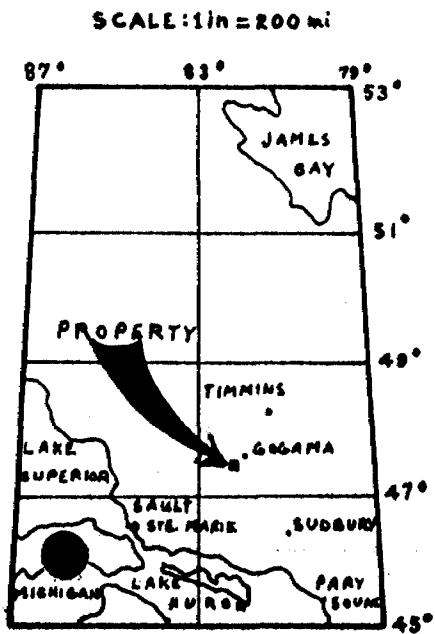
SCALE: 1in = 1/2 mi.



683535	683536
683538	683537

683531	683532
683534	683533

688659	688654	688653
688658	688655	688652
688657	688656	688651

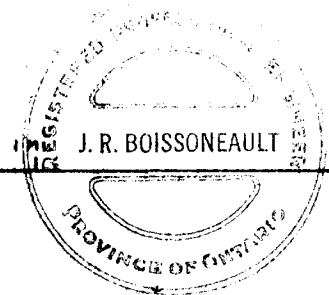


2 Mi

1 Mi

HUFFMAN POTIER

ARBUTUS YEO





Ministry of
Natural
Resources

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

W

#25



410095E0009 2.7035 HUFFMAN

900

#253

Minin.

Type of Survey(s) **ELECTROMAGNETIC - MAGNETOMETER** Township of Area **HUFFMAN TWP.**

Claim Holder(s) **HARBOR RESOURCES INC.** Professional's Licence No. **T-954**

Address **65 QUEEN ST. WEST SUITE 1100, TORONTO, ONT.**

Survey Company **J. R. BOISSONEAULT, P. ENG.** Date of Survey (from & to) **10 6 84 18 6 84** Total Miles of line Cut **9.5**

Name and Address of Author (of Geo-Technical Report) **J. R. BOISSONEAULT, 670 SPRUCE ST. NORTH, TIMMINS, ONT.**

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

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	683531				
	683532				
	683533				
	683534				
	683535				
	683536				
	683537				
	683538				

RECORDED
JUN 21 1984
Receipt No. 30

PORCUPINE MINING DIVISION
RECEIVED
JUN 21 1984
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

RECEIVED
JUN 29 1984
MINING LANDS SECTION

Total number of mining claims covered by this report of work. **8**

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.

For Office Use Only

Total Days Cr. Recorded **480** Date Recorded **June 21, 1984** Mining Recorder *[Signature]*

Date Approved as Recorded **84.9.13** Mining Director *[Signature]*

Date **JUNE 21, 1984** Recorded Holder or Agent (Signature) *[Signature]*

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 **JOHN R. BOISSONEAULT, 670 SPRUCE ST. NORTH, TIMMINS, ONT.**

Date Certified **JUNE 21, 1984** Certified by (Signature) *[Signature]*



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

W.R.
2.7035
252184
Mining Act

- 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.

Aug 20th

Type of Survey(s) **ELECTROMAGNETIC - MAGNETOMETER** Township or Area **POTLER TWP**

Claim Holder(s) **HARGOR RESOURCES INC.** Inspector's Licence No. **T-954**

Address **65 QUEEN ST. WEST SUITE 1100 TORONTO ONT.**

Survey Company **J.R. BOISSONEAULT P. ENG.** Date of Survey (from & to) **10 6 84 18 6 84** Total Miles of line Cut **10.5**

Name and Address of Author (of Geo-Technical report) **J.R. BOISSONEAULT, 670 SPRUCE ST. NORTH, TIMMINS, ONT.**

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	688651				
	688652				
	688653				
	688654				
	688655				
	688656				
	688657				
	688658				
	688659				

RECORDED
JUN 21 1984
Receipt No. 30

PORCUPINE MINING DIVISION
RECEIVED
JUN 21 1984
A.M. 7 8 9 10 11 12 1 2 3 4 5 P.M.

RECEIVED
JUN 29 1984
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures **S** ÷ **15** = **7** 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. **9**

For Office Use Only

Total Days Cr. Recorded **540** Date Recorded **June 21, 1984** Mining Recorder *[Signature]*

Date approved as Recorded **84.9.13** Branch Director *[Signature]*

Date **JUNE 21, 1984** Recorded Holder or Agent (Signature) *[Signature]*

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 **JOHN R. BOISSONEAULT, 670 SPRUCE ST. NORTH, TIMMINS, ONT**

Date Certified **JUNE 21, 1984** Certified by (Signature) *[Signature]*

Mining Lands Section

File No 2.7035

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

~~_____~~

Jgd
LD

Doug
Signature of Assessor

7/09/84
Date

August 28, 1984

File: 2.7035

Hargor Resources Inc
65 Queen Street West
Suite 1100
Toronto, Ontario
M5H 2M5

Dear Sirs:

RE: Geophysical (Electromagnetic, Magnetometer) Surveys
submitted on Mining Claims P 683531 et al and P 688651
et al in the Townships of Huffman and Potier

Enclosed are the plans, in duplicate, for the above-mentioned surveys. Please have the author of the report, J.R. Boissoneault, sign each plan. In addition, since the magnetometer survey was a total field magnetic survey, please note on the plans the base value to which the magnetic readings were levelled.

Please forward the above information, in duplicate, to this office quoting file 2.7035.

For further information, please contact Mr. Doug Isherwood at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

D. Isherwood:mc

cc: J.R. Boissoneault
670 Spruce Street North
Timmins, Ontario
P4N 6P3

cc: Mining Recorder
Timmins, Ontario

Encl.

1984 08 21

Your File: 252 & 253
Our File: 2.7035

Mr. Bruce Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 683531 et al in the Townships of Huffman & Potier.

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-6918

A. Barr:

cc: Hargor Resources Inc
65 Queen Street West
Suite 1100
Toronto, Ontario
M5H 2M5

cc: J.R. Boissoneault
670 Spruce Street North
Timmins, Ontario
P4N 6P3

2.7035



Ontario

Ministry of
Natural
Resources

If not called for, please return to
Ministry of Natural Resources
Queen's Park, Toronto, Ontario
M7A 1W3

To:

~~Hargor Resources Inc~~
~~65 Queen Street West~~
~~Suite 1100~~
~~Toronto, Ontario~~
~~M5H 2M5~~

*do J. Murray
Frogley*

*36 Braymer Drive
Weston, Ontario
M9P 2P1*

Form 1308

NOTES

AREAS WITHDRAWN FROM DISPOSITION

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

Description Title No. Date Disposition Tax

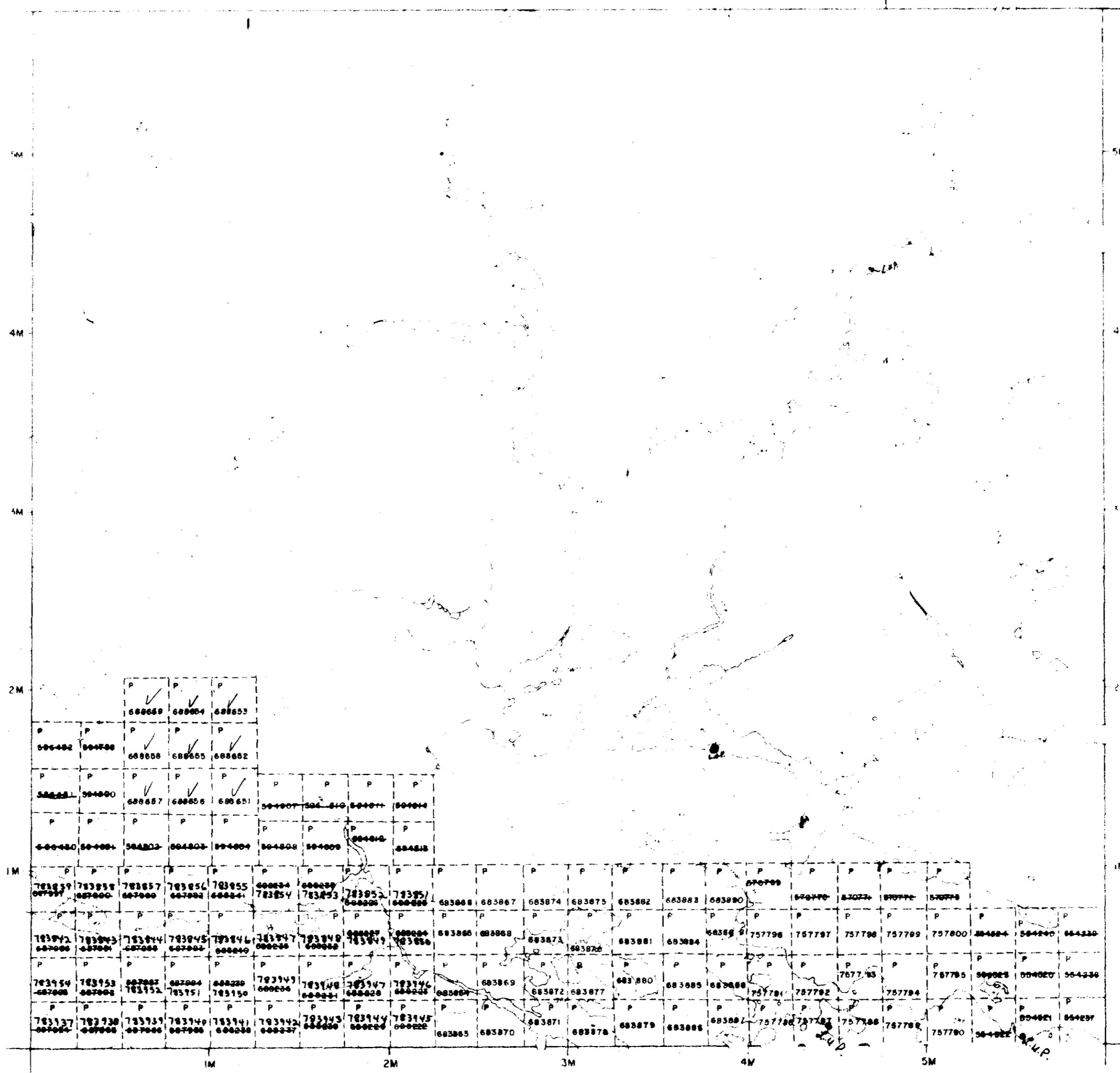
FRATER TWP.

SOMME TWP.

HUFFMAN TWP.

NEVILLE TWP.

YEO TWP.



LEGEND

- ROADS AND RIGHTS OF WAY
- RAILWAYS
- TRAILS
- SURVEYED LINES
- TOWNSHIP BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED 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 MUSKIEG
- MINES
- TRAVERSE MONUMENT

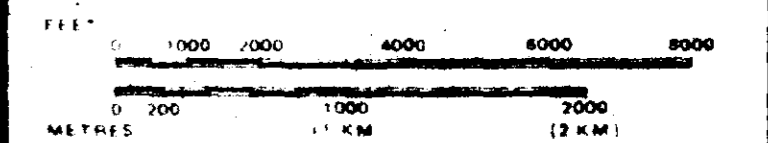
DATE OF ISSUE
SEP 14 1984
Ministry of Natural Resources
TORONTO

DISPOSITION OF CROWN LANDS

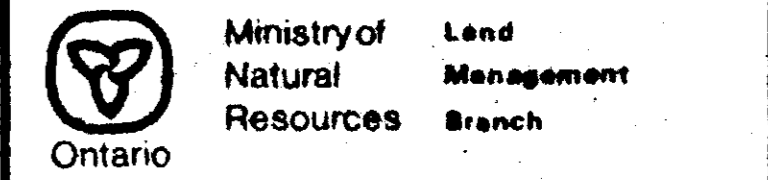
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	◼
MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	◔
ORDER IN COUNCIL	◕
RESERVATION	◖
CANCELLED	◗
SAND & GRAVEL	◘

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 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 01/20/84
POTIER
M.N.R. ADMINISTRATIVE DISTRICT
GOGAMA
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY



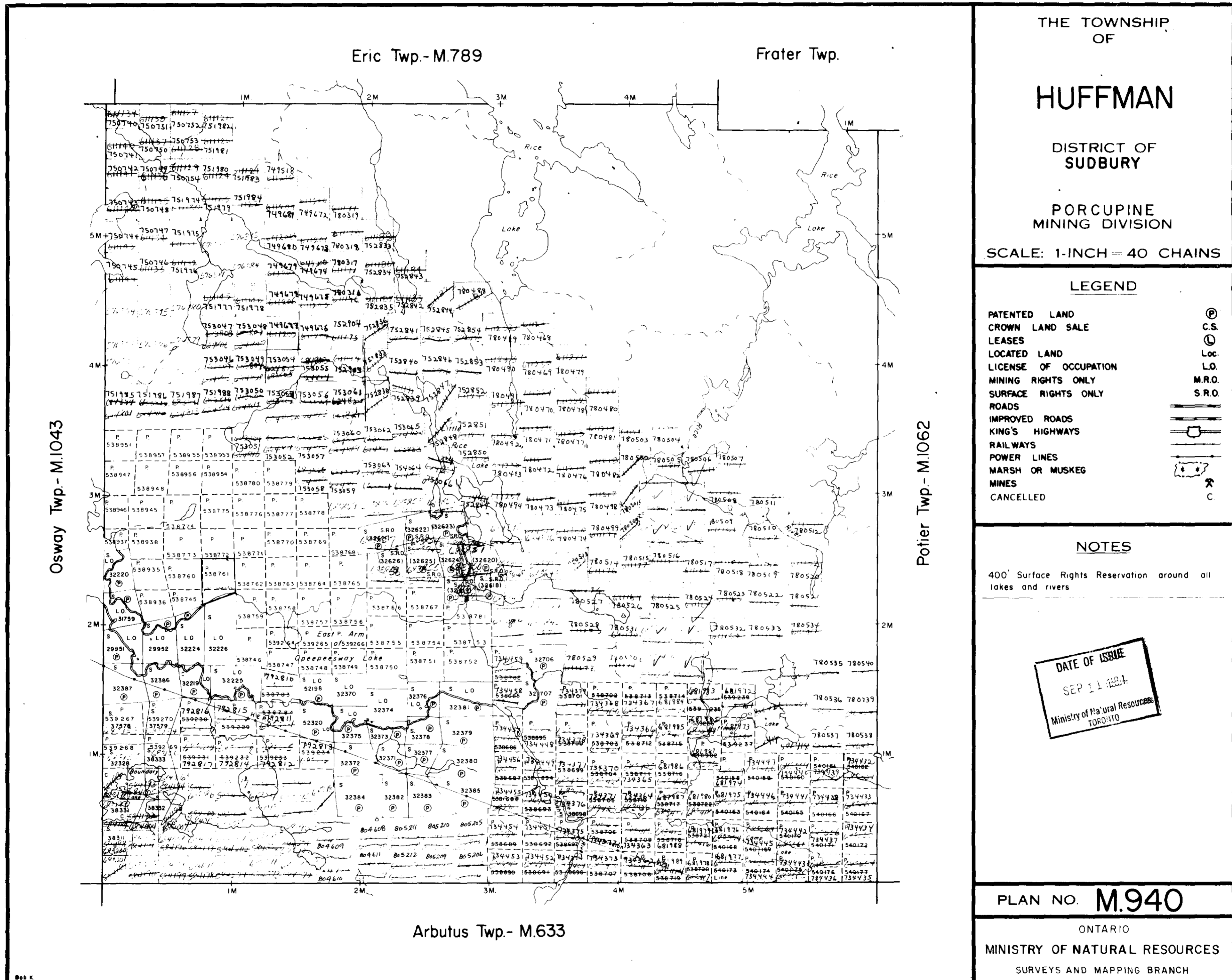
Date: NOVEMBER 1983
Number: **G-2482**



049.E.M

049.D.M

TRIM LINE



THE TOWNSHIP OF
HUFFMAN

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

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

NOTES

400' Surface Rights Reservation around all lakes and rivers

DATE OF ISSUE
SEP 11 1984
Ministry of Natural Resources
TORONTO

PLAN NO. M.940

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



4100950009 2.7035 HUFFMAN

TRIM LINE

HUFFMAN TWP

049.E.M

HARGOR RESOURCES INC.
H.E.M. PROFILES
POTIER TOWNSHIP

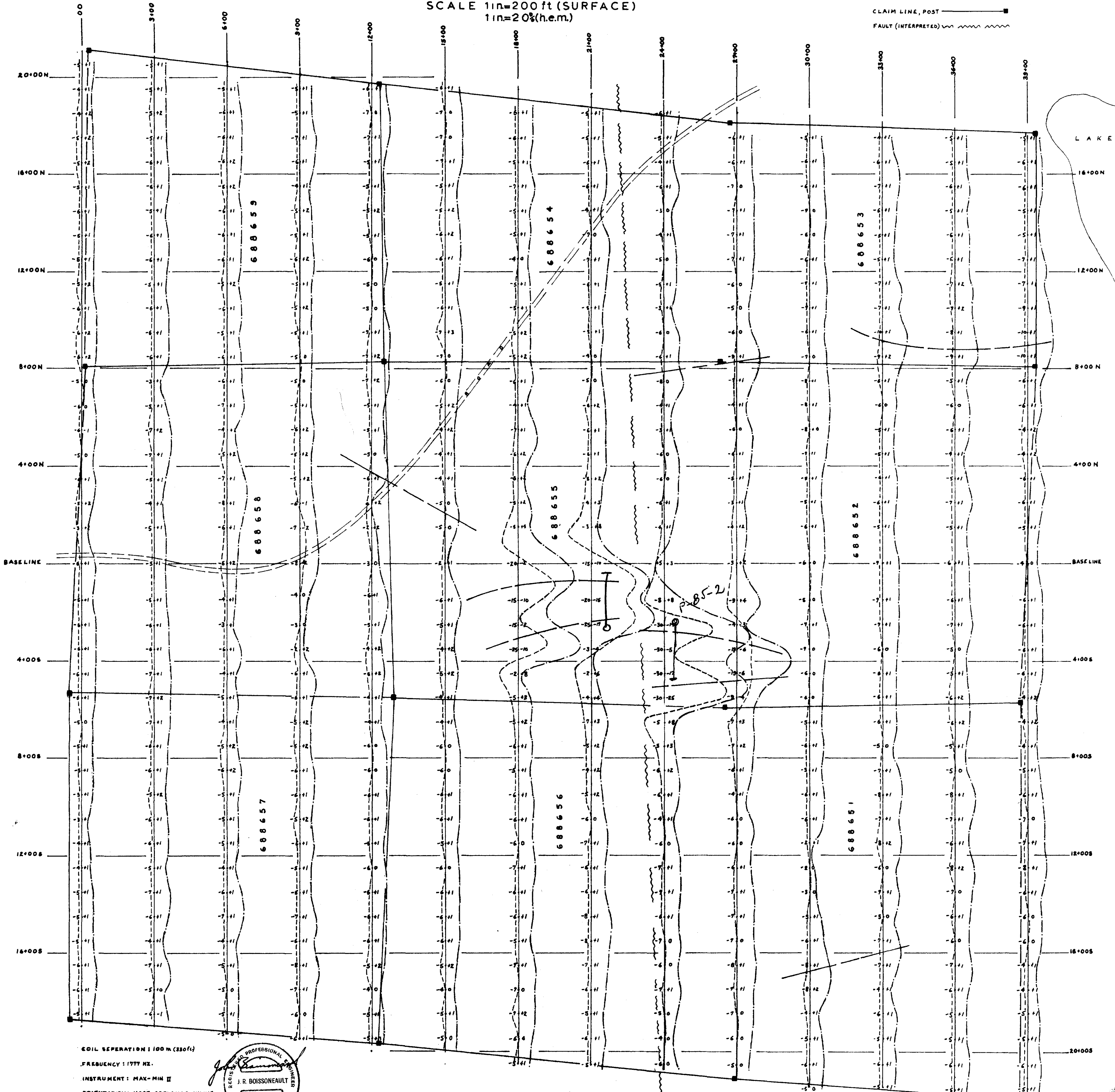
RECEIVED
AUG 10 1984
A.M. 7,8,9,10,11,12,1,2,3,4,5,6 P.M.

LEGEND

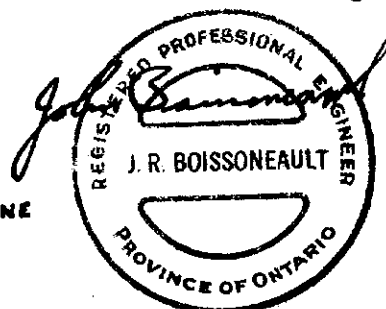
READINGS $\frac{1}{2}$ INPHASE
 $\frac{1}{2}$ OUTPHASE
INPHASE - - - - -
OUTPHASE - - - - -
CONDUCTOR AXIS - - - - -
CLAIM LINE, POST - - - - -
FAULT (INTERPRETED) ~~~~~

ONTARIO

SCALE 1in.=200 ft (SURFACE)
1in.=20% (h.e.m.)



COIL SEPARATION 100 m (330 ft)
FREQUENCY 1777 Hz.
INSTRUMENT: MAX-MIN II
ORIENTATION: N087° 30' NAA, INLINE

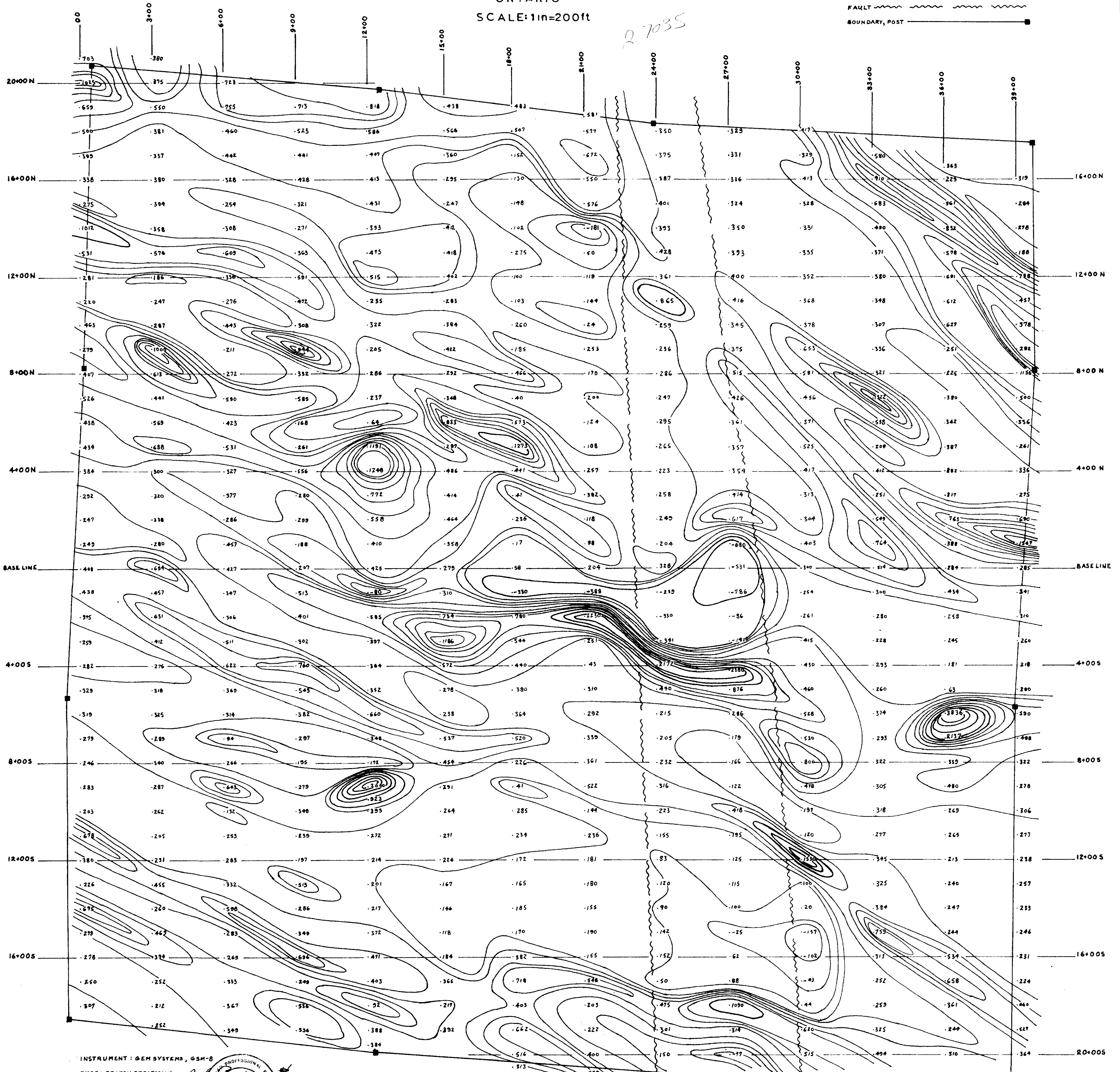


HARGOR RESOURCES INC
RECEIVED
AUG 10 1984
MAGNETIC CONTOURS
TIER TOWNSHIP

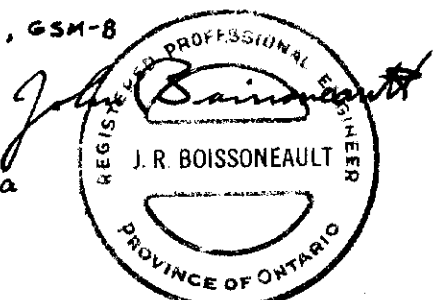
LEGEND

READING: .638
CONTOUR LINE, 100g INTERVAL
CONTOUR LINE, 500g INTERVAL
FAULT
BOUNDARY, POST

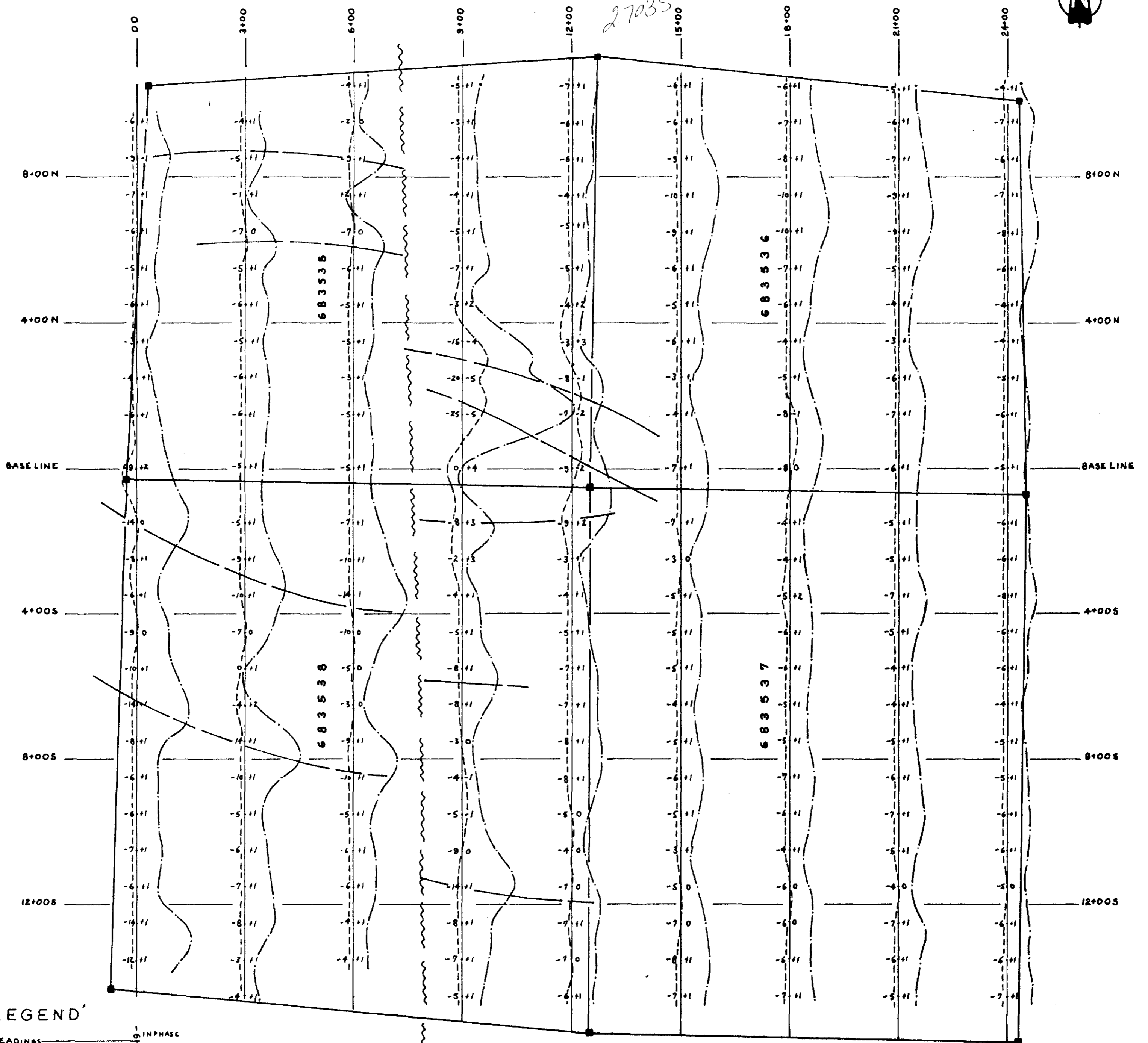
ONTARIO
SCALE: 1in=200ft



INSTRUMENT: GEM SYSTEMS, GSN-B
TYPE: PROTON PRESSION
ACCURACY: ± 1 gamma
BASE VALUE: 58,000 gamma



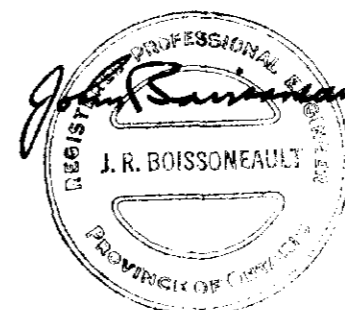
HARGOR RESOURCES INC.
H.E.M. PROFILES
HUFFMAN TOWNSHIP
ONTARIO
SCALE: 1in=200ft (surface), 1in=20% (H.E.M.)



LEGEND

- READINGS: INPHASE
- OUTPHASE
- INPHASE:
- OUTPHASE:
- CONDUCTOR AXIS:
- CLAIM LINE, POST:
- FAULT (INTERPRETED):

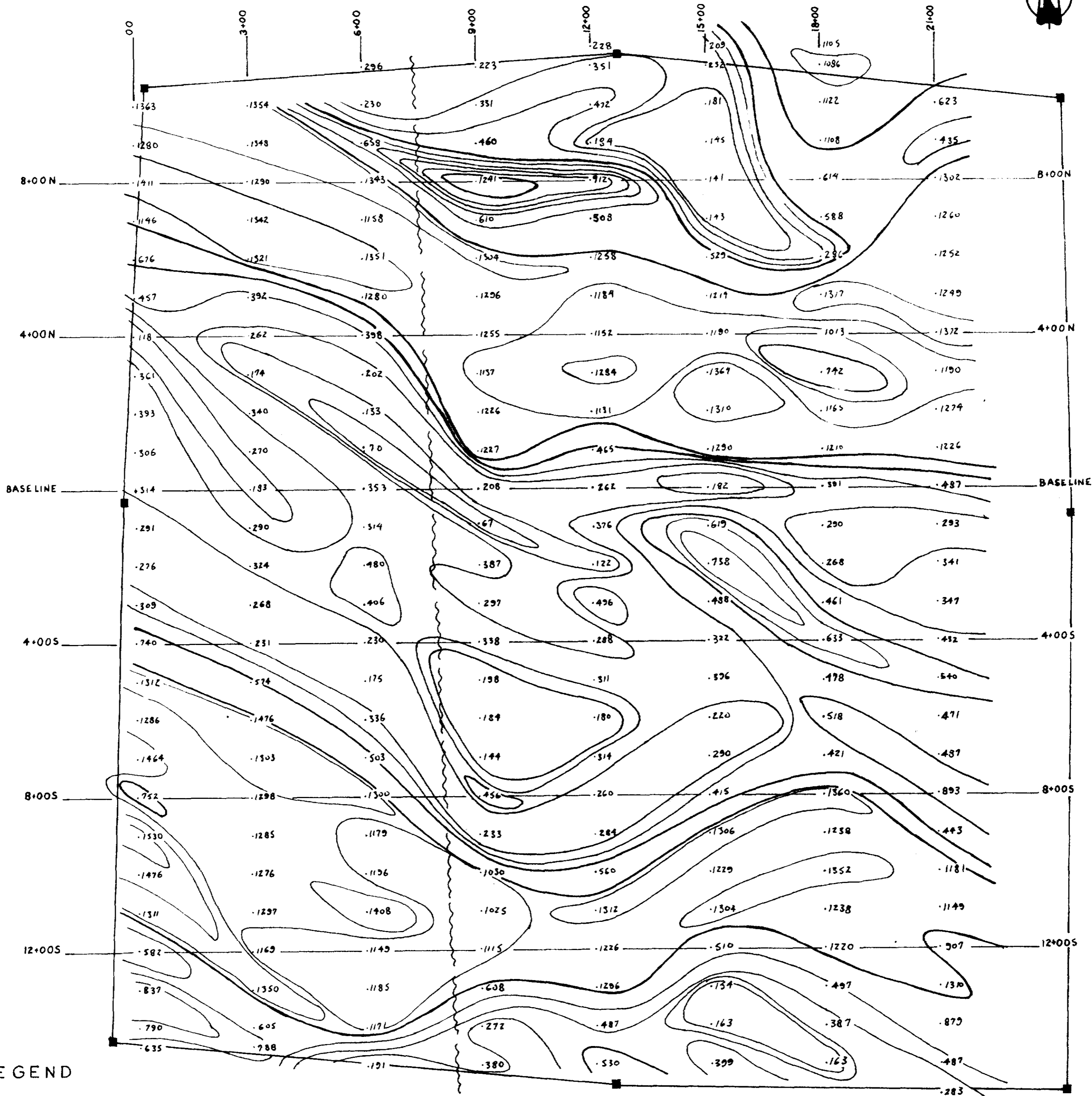
NORTH BLOCK



COIL SEPARATION: 100m (330ft)
FREQUENCY: 1777 Hz.
INSTRUMENT: MAX-MIN II
ORIENTATION: HORIZ., COPLANAR, IN LINE



HARGOR RESOURCES INC.
MAGNETIC CONTOURS
HUFFMAN TOWNSHIP
ONTARIO
SCALE: 1 in=200ft *2.7035*



LEGEND

READING: .638

CONTOUR LINE: — 100g — 500g

FAULT: ~~~~~

BOUNDARY, POST: —■—

NORTH BLOCK

John B. Buissonault
J. B. BUSSONAUULT

INSTRUMENT: GEM SYSTEMS-GSMB

ACCURACY: ± 3 gamma

TYPE: PROTON PRECESSION

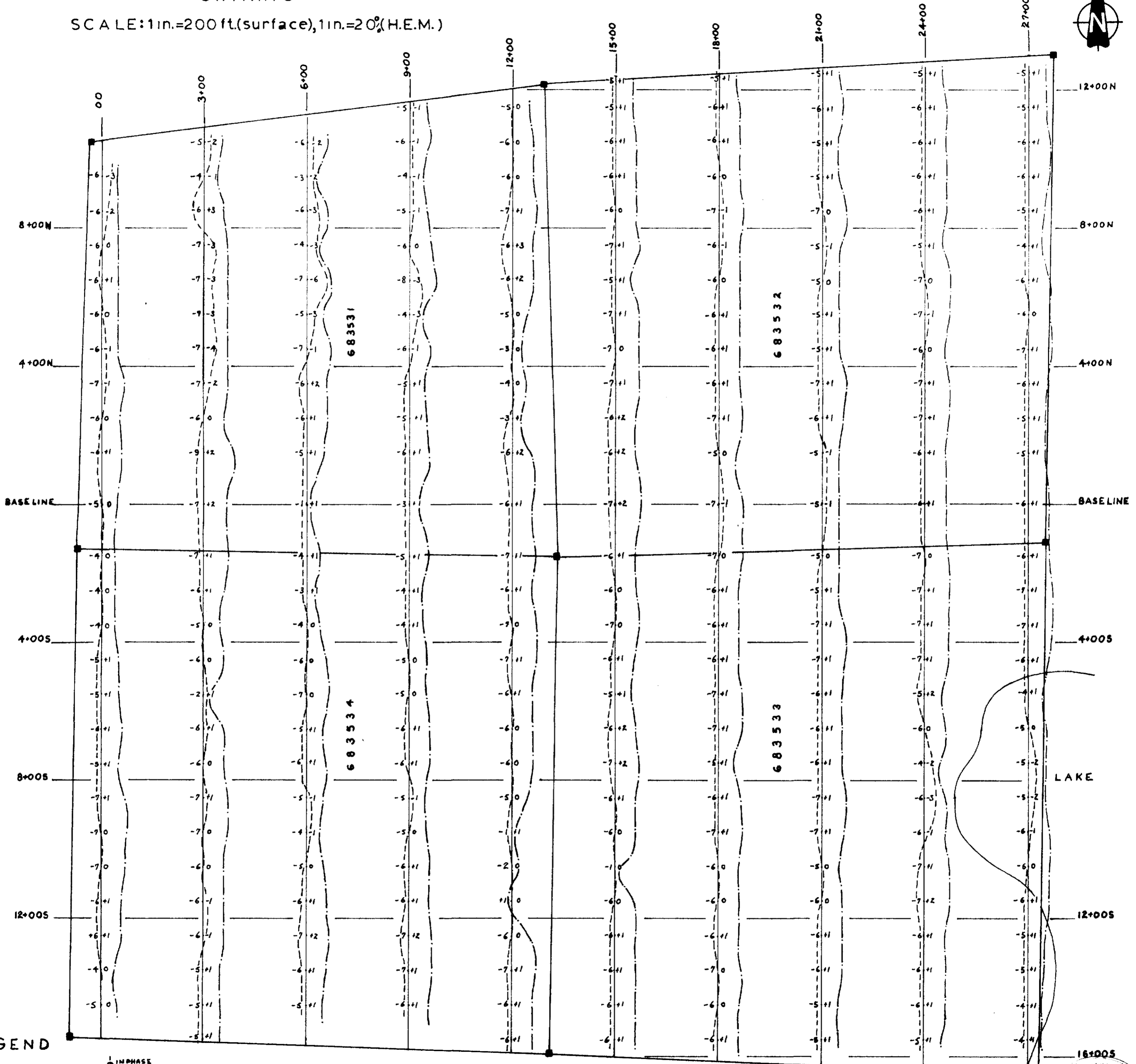
BASE VALUE: 58,000 gamma



HARGOR RESOURCES INC
HEM PROFILES
HUFFMAN TOWNSHIP
ONTARIO

2.7035

SCALE: 1 in. = 200 ft. (surface), 1 in. = 20% (H.E.M.)



- LEGEND**
- READINGS ———— 1 INPHASE
 2 OUTPHASE
 - INPHASE ————
 - OUTPHASE - - - -
 - CONDUCTOR AXIS ————
 - CLAIM LINE, POST ————



SOUTH BLOCK

COIL SEPERATION : 100m (330ft)
FREQUENCY : 1777 HZ.
INSTRUMENT : MAX-MIN II
ORIENTATION : HORIZ, COPLANAR, IN LINE

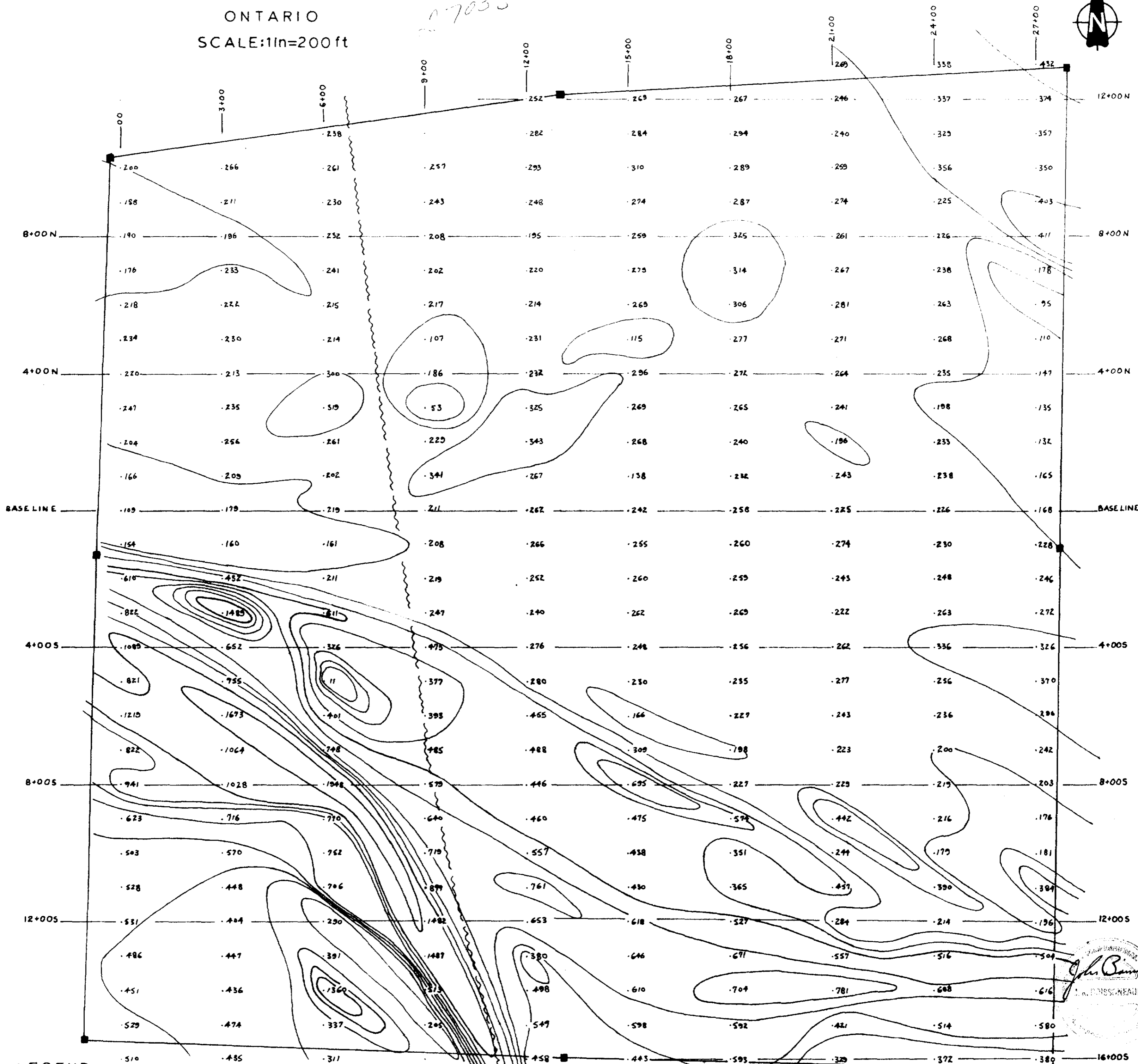


HARGOR RESOURCES INC.
MAGNETIC CONTOURS
HUFFMAN TOWNSHIP

ONTARIO
SCALE: 1in=200 ft

SOUTH BLOCK

17035



LEGEND

READING: -638

CONTOUR LINE — 100g, — 500g

FAULT: ~~~~~

BOUNDARY, POST: ■



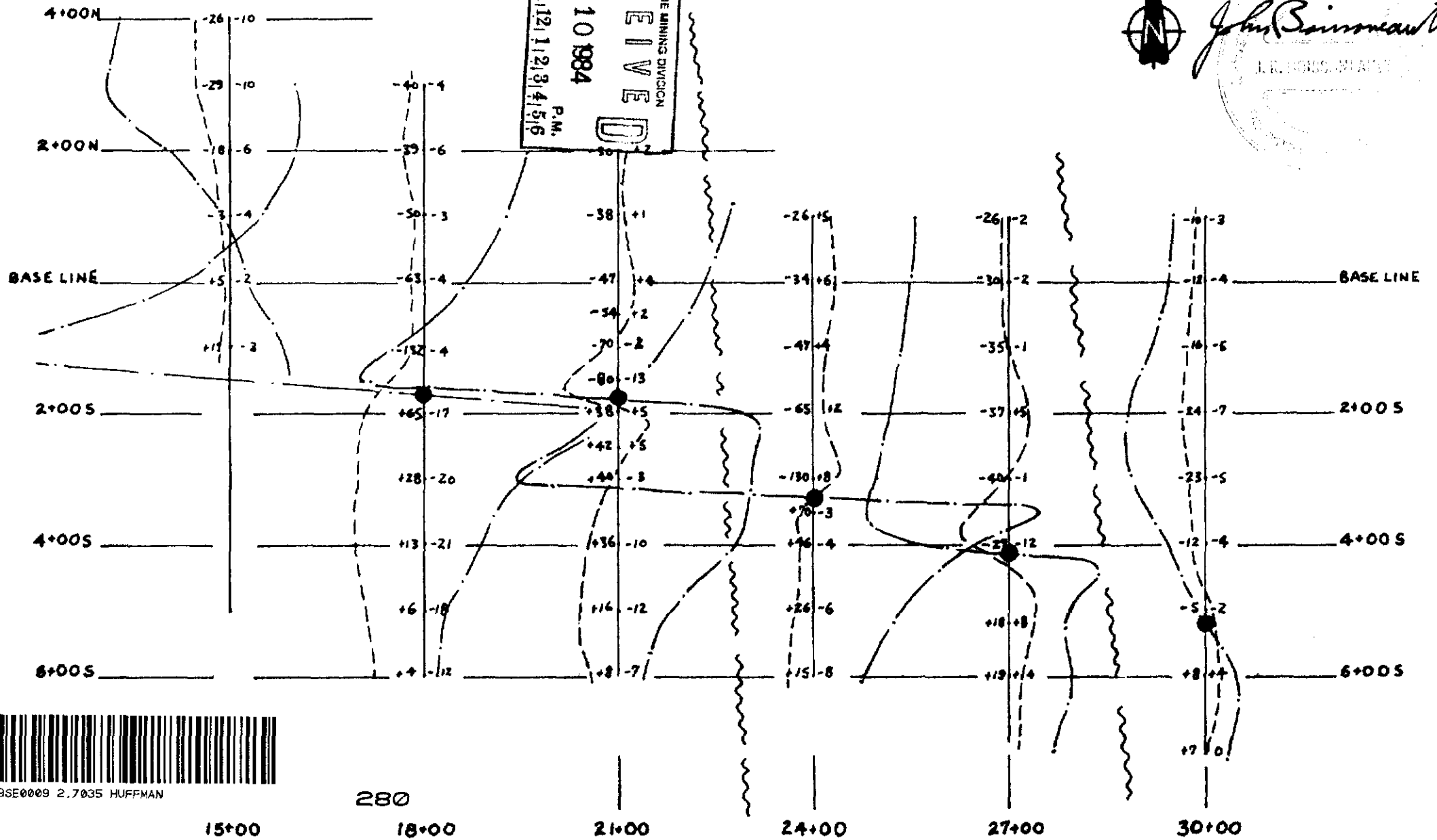
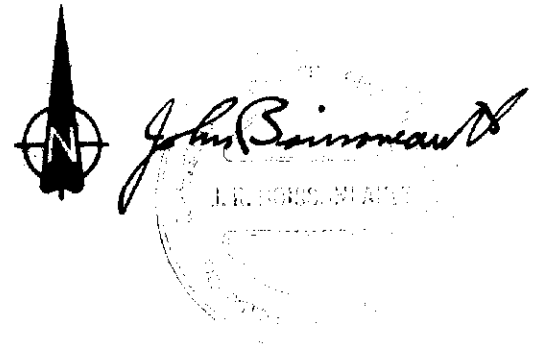
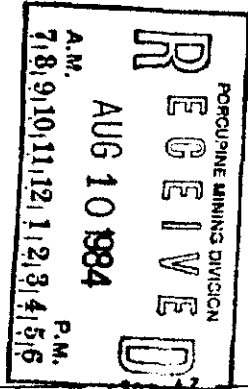
41085E0009 2.7035 HUFFMAN

INSTRUMENT: GEM SYSTEMS, GSM 8
TYPE: PROTON PRECESSION
ACCURACY: ± 1 gamma
BASE VALUE: 58,000 gamma

HARGOR RESOURCES INC.
V.L.F. PROFILES
POTIER TOWNSHIP

ONTARIO

SCALE: 1 in = 200 ft.



41009SE0009 2.7035 HUFFMAN

LEGEND

READINGS: $\begin{matrix} \text{INPHASE} & \text{OUTPHASE} \\ +5 & -8 \end{matrix}$

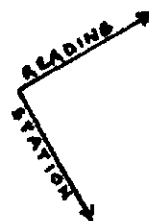
INPHASE PROFILE —————

OUTPHASE PROFILE - - - - -

CONDUCTOR AXIS ●

FAULT (INTERPRETED) ~~~~~

27035



INSTRUMENT: GEONICS, E.M.-16
TRANSMISSION: ANNAPOLIS, MARYLAND
FREQUENCY: 21.4 KHZ.
READINGS FACING EAST (60°)

E.M. SCALE: 1 in. = 40'