



REPORT ON THE
GEOPHYSICAL SURVEYS ON THE
GRAPHITE PROPERTIES
HERSCHEL AND LYNDOK TWPS., ONTARIO
N.T.S. 31F/4

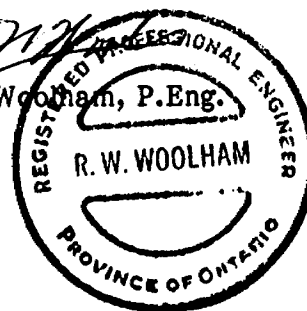
PREPARED FOR
HARRINGTON SOUND RESOURCES INC.

RECEIVED

MAY 10 1989

MINING LANDS SECTION
DERRY, MICHENER, BOOTH & WAHL

R.W. Woolham
R. W. Woolham, P.Eng.



Toronto, Ontario
May 10, 1989

Ref.: 89-32

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31E01NW0026 2.12456 HERSCHEL

TABI

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INTRODUCTION

Geophysical surveys utilizing the magnetic and VLF-electromagnetic methods, have been completed on two claim groups in Herschel and Lyndoch townships, Ontario, which are controlled by Harrington Sound Resources Inc. The surveys were performed by Derry, Michener, Booth & Wahl (DMBW) field technicians under the direct supervision of the author. The surveys were conducted during the period March 1, 1989 to March 21, 1989.

Graphite mineralization occurs on the properties. The magnetic and VLF-electromagnetic surveys were completed in an attempt to further define the known mineralization and related geology, where it is overburden covered, as well as detect possible additional graphite mineralization. This report describes the logistics, parameters and results of the geophysical surveys.

PROPERTY LOCATION, DESCRIPTION AND ACCESS

Harrington Sound Resources Inc. has optioned two properties in southeastern Ontario from Mr. A. Dubblestein of Maple Leaf, Ontario. Figure 1 shows the location of the two properties in relation to Bancroft and the major highways in the area. Figure 2 is a claim map showing the distribution of the claims in both blocks as well as local trails and bush roads in the area of the properties. A list of the claims, township location and recording dates is as follows:

<u>Claim Numbers</u>	<u>Township</u>	<u>Recording Date</u>
SO721578-721581	Herschel	March 14, 1988
SO1040570-1040574	Herschel	March 14, 1988
SO721568-721571	Lyndoch	September 9, 1987
SO721577	Lyndoch	September 9, 1987

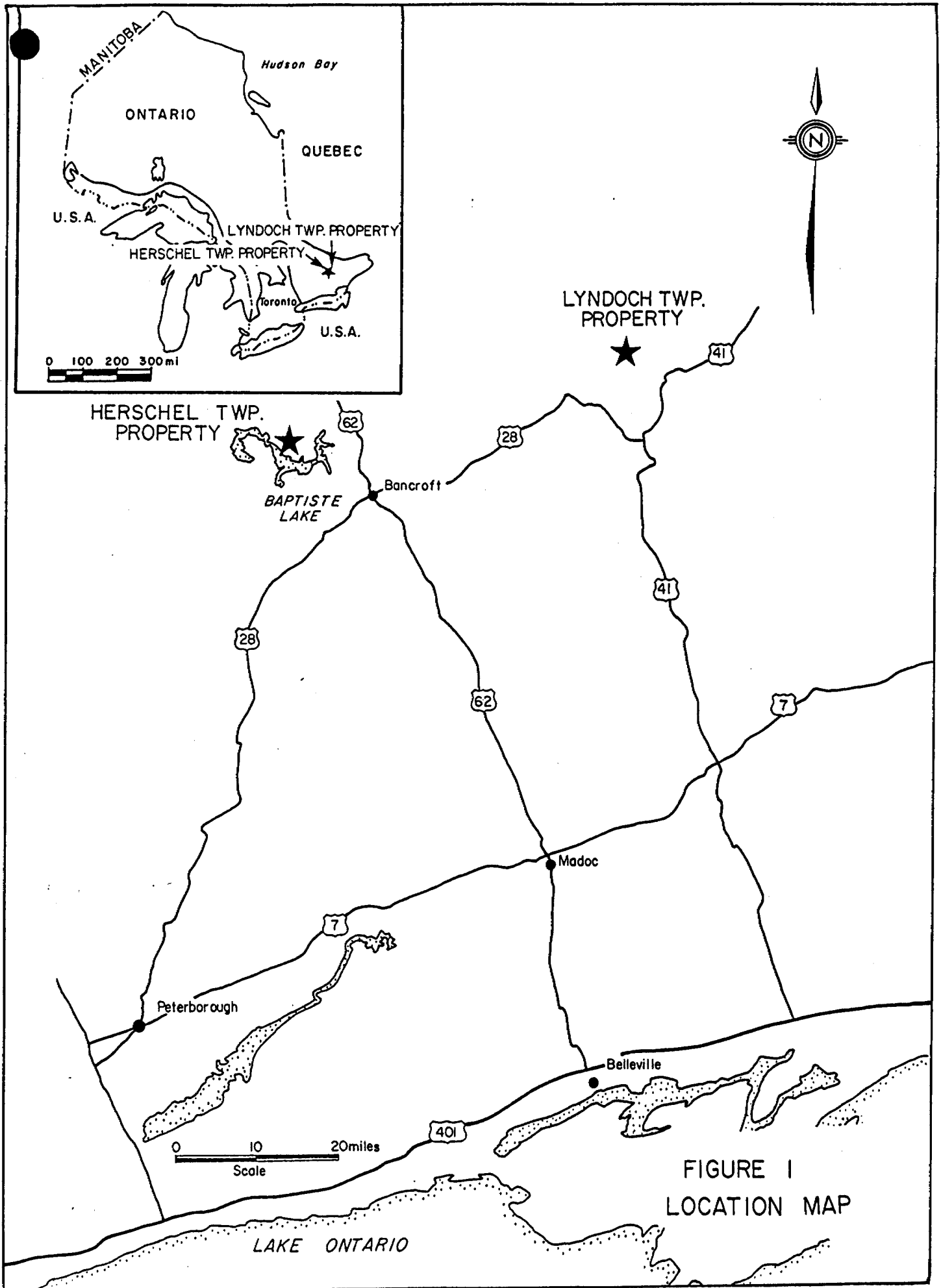


FIGURE 1
LOCATION MAP

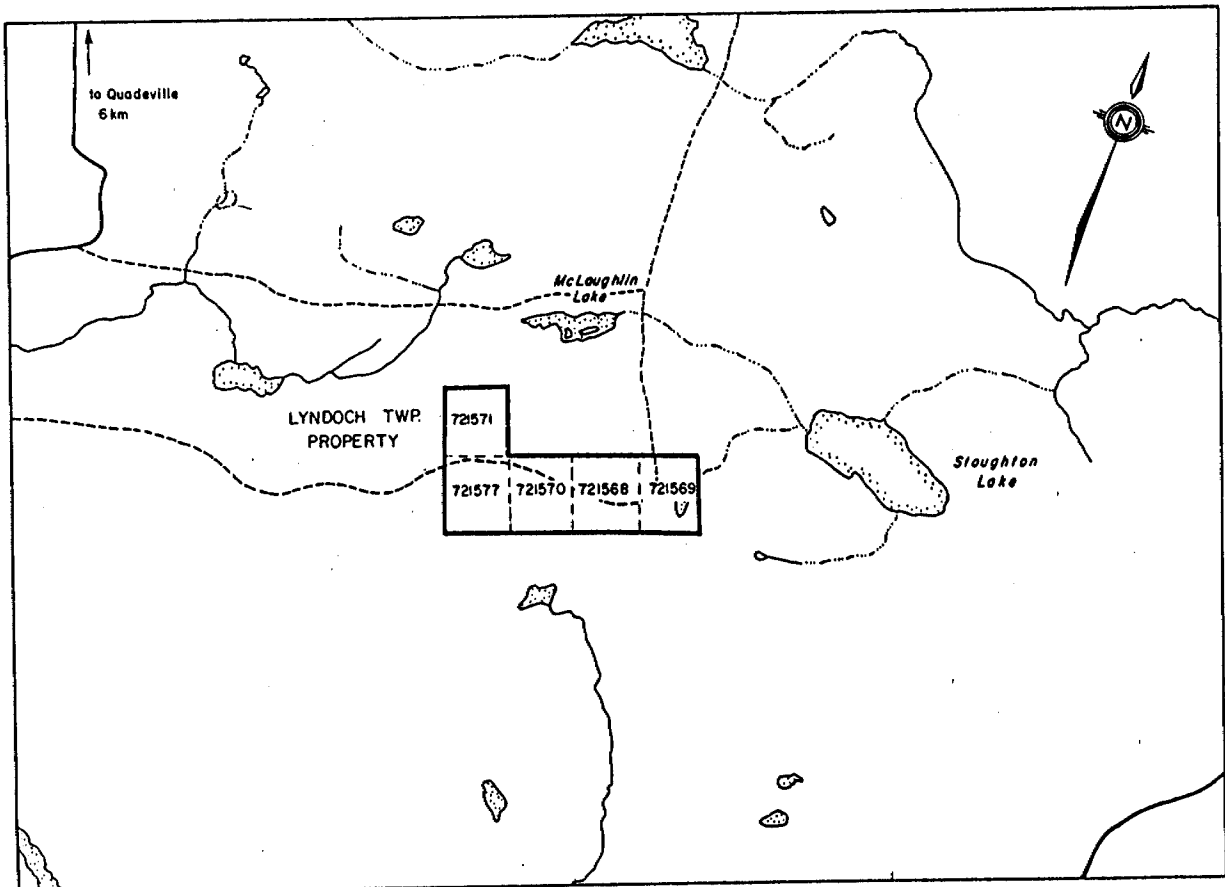
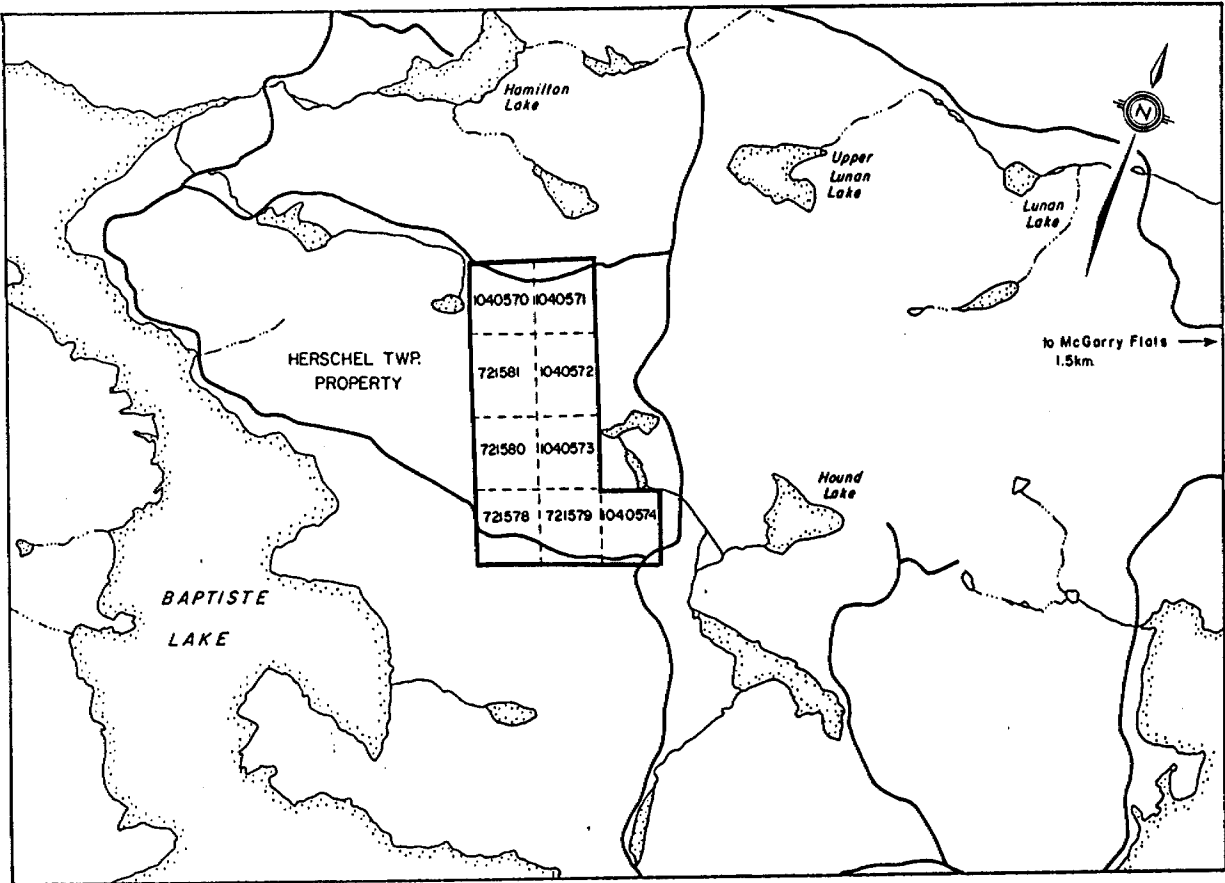


FIGURE 2
CLAIM MAPS OF THE
HERSCHEL TWP. AND LYNDOCH TWP.
PROPERTIES

DMBW has not examined title to the claims nor substantiated their physical boundaries and, accordingly, expresses no opinion as to validity of title and property description.

The Lyndoch Township property lies about 120 km due north of Belleville and about 50 km northeast of Bancroft, Ontario. Access to the property is as follows; drive east from Bancroft to the village of Quadville via Highways 28, 514 and 515, respectively, for a distance of about 65 km. From Quadville, drive south-southeast for about 6 km to the boundary between Concessions VII and VIII. From there a logging road runs east for about 4 km past McLaughlin Lake, at which point a trail leads south 1.2 km to diamond drill hole Q-1, in the eastern portion of the property.

The Herschel Township property is located about 120 km north-northwest of Belleville and about 16 km northwest of Bancroft. Access to the property can be obtained by driving north on Highway 62 for a distance of about 17 km, then about 5 km west to McGarry Flats. From there, various logging roads are followed northwesterly to the property.

SURVEY PARAMETERS AND PRESENTATION

Magnetic Survey

A Scintrex MP-2 proton total field magnetometer was used for the survey. Diurnal correction control was obtained by looping through pre-established base stations at intervals that did not exceed one and one-half hours. Instrument specifications are contained in Appendix 1. Readings were taken along grid lines spaced 100 m apart at 12.5 m station intervals. In all, 32 line km of data were recorded, 11 km on the Lyndoch grid and 21 km on the Herschel grid.

The magnetic values recorded in the field were corrected for diurnal variations using the appropriate time and diurnal change information. Preliminary field maps were produced from the information.

Office compilation consisted of entry of the field values into a computer system for editing and machine plotting and contouring. A regional datum value of 57,000 nanotesla (nT) was subtracted from all readings. Posted value and contour maps, at a scale of 1:2,500, for the Lyndoch property and 1:5,000 for the Herschel property, were generated with appropriate title and legend with a contour interval of 250 nT (see Maps 89-32-01, -02, -04 and -05).

VLF-Electromagnetic Survey

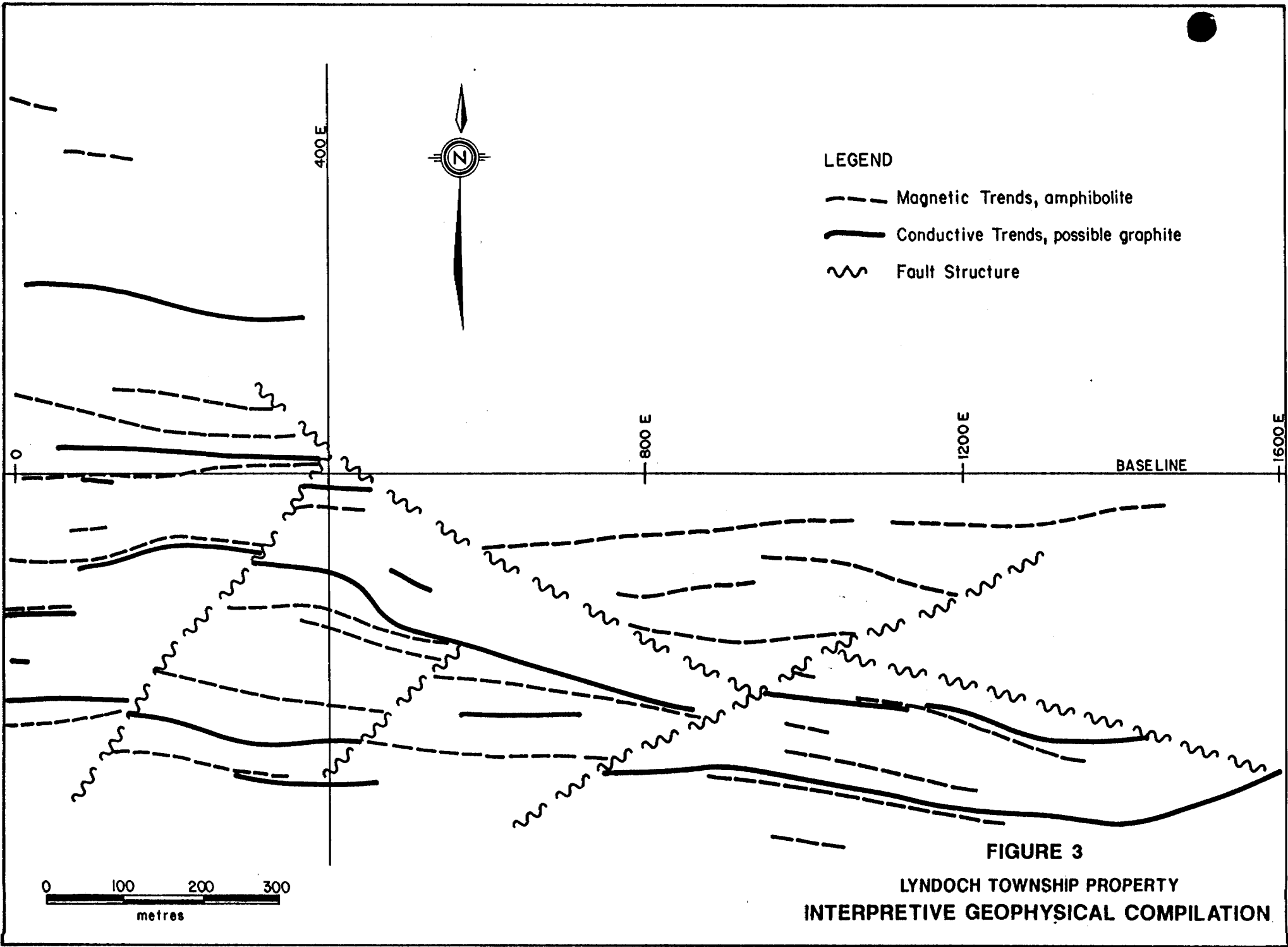
The VLF-electromagnetic survey utilized a Crone Radem VLF instrument to measure the dip of the secondary field component produced by the primary field from the VLF transmitter station at Cutler, Main (24.0 KHz). Instrument specifications are contained in Appendix 1. Readings were taken along grid lines spaced 100 m apart at 12.5 m station intervals. The same number of line kilometers of data were obtained as described previously.

The results were plotted in the field, for preliminary evaluation, in profile form. Subsequently, office compilation consisted of entry of the data values on the field maps into a computer system for machine plotting. The conductors detected by the survey are indicated by positive to negative dip angles proceeding in a north direction as shown on Maps 89-32-03 and -06.

RESULTS AND CONCLUSIONS

Herschel Township Property

The magnetic survey detected numerous isolated 1,000 nT to over 3,000 nT anomalies scattered throughout the property. Most of the anomalies are very narrow and have a distinct negative component on their flanks. This indicates their source is near surface and the overburden cover is probably quite thin. Closer inspection of the magnetic patterns indicates that some of the anomalies form specific trends in a west-northwest direction in the south part of the grid. In the extreme north part of the grid this trend appears to turn to the



LEGEND

- Magnetic Trends, amphibolite
- Conductive Trends, possible graphite
- ~ Fault Structure

FIGURE 3

LYNDOCH TOWNSHIP PROPERTY
INTERPRETIVE GEOPHYSICAL COMPILATION

northeast. Unfortunately, the grid direction is in a north-northeast direction making anomaly trend patterns difficult to recognize in the south part of the property. The magnetic responses are probably related to local concentrations of magnetite and/or pyrrhotite mineralization associated with the amphibolites present in the area.

Conductive trend directions detected by the VLF-electromagnetic survey were difficult to interpret because survey grid lines were not at right angles to strike. Four en-echelon conductors, approximately 200 m to 300 m long occur in the south portion of the grid. They parallel the west-northwest magnetic trends. The three most easterly conductors coincide with magnetic anomalies suggesting that pyrrhotite mineralization may be contributing to the response in addition to graphite which is known to be present on the property. The most westerly conductor is not coincident with any magnetic response and, after being interrupted, appears to continue north-northwesterly off the western boundary of the property. This conductor could be reflecting a graphite horizon.

Two other short but definite conductive zones occur in the north part of the property. One is on the west boundary of the grid and the other occurs in the northeast corner of the grid. Graphite may be the source of these anomalies.

Lyndoch Township

The magnetic map shows a series of subparallel, narrow, intermittent 1,000 nT to over 3,000 nT magnetic lineaments trending east-west across the property. The narrow width and sharp positive-negative anomalies indicate the sources of the anomalies are shallow suggesting a thin overburden cover is present on the property. The majority of the magnetic lineaments are concentrated in the four southern claims. Trend displacements and interruptions suggest a set of northeast faults are present producing local offsets of 25 m to 75 m. The magnetic linears probably reflect underlying amphibolite units and, near the south property boundary, they may also be related to pyrrhotite mineralization that was noted in outcrop in one location. The interpreted magnetic and conductive structures are sketched on Figure 3.

The VLF-electromagnetic survey detected three major conductive horizons running parallel to, and closely flanking the magnetic linears just described. The most southerly conductor trend is interrupted in the central part of the grid but appears to have continuity either side of this zone. This conductor probably reflects a graphitic-sulphide unit. Where the unit is interrupted, the same horizon continues as a magnetic anomaly suggesting that the graphite content is reduced but the pyrrhotite mineralization is still present.

The second conductive horizon occurs about 100 m north of the extreme southern one, in the east part of the claim group, but diverges northward as it trends westward. It is the most continuous conductive trend on the property and its eastern end coincides approximately with the graphitic mineralization tested previously by two drill holes. Immediately north of this conductor, in the central part of the grid, there is a narrow area devoid of any major magnetic responses. This area may reflect an underlying marble unit although alteration effects may also be contributing.

The remaining major conductive horizon occurs slightly north of the baseline. It has similar characteristics as the other two conductors to the south and may also reflect graphitic and/or sulphide mineralization. A fourth, weaker conductive zone, occurring about 200 m north of the baseline, may represent another mineralized horizon. Some caution is required in assessing the source of the VLF-electromagnetic conductors, however, as fault zones, contact horizons and surficial conductive material can also produce similar conductive responses when using the VLF system.

RECOMMENDATIONS

Further investigation of these properties is warranted based on the geophysical results to date. The geophysical surveys have outlined several horizons thought to reflect graphite mineralization as well as sulphide mineralization. Geological mapping and sampling of the properties is planned shortly. Investigations should be concentrated along the conductive horizons. In order to confirm that the conductors are indeed related to graphite or sulphide

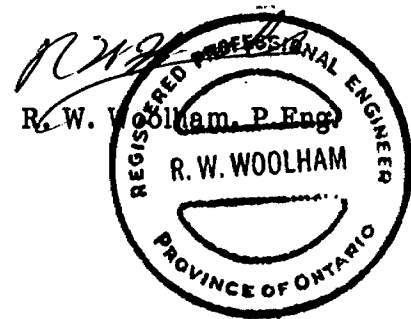
mineralization, a detailed self-potential survey is recommended over the conductive zones. This survey, which is a diagnostic indicator of graphite or sulphides, will aid in pinpointing the best areas for trenching and sampling.

CERTIFICATE OF QUALIFICATION

I, Roderick W. Woolham of the town of Pickering, Province of Ontario, do hereby certify that:-

1. I am a geophysicist and reside at 1463 Fieldlight Blvd., Pickering, Ontario, L1V 2S3.
2. I graduated from the University of Toronto in 1961 with a degree of Bachelor of Applied Science, Engineering Physics, Geophysics Option.
3. I am a member in good standing of the following organizations: The Association of Professional Engineers of the Province of Ontario (Mining Branch); Society of Exploration Geophysicists; South African Geophysical Association.
4. I have been practising my profession for a period of more than 25 years.
5. I am an Associate with Derry, Michener, Booth & Wahl, Consulting Geologists and Engineers.
6. I have not received, nor do I expect to receive, any interest, directly or indirectly, in the properties or securities of Harrington Sound Resources Inc. or any affiliate.
7. I personally was involved with the technical supervision of the survey and wrote the report.
8. I consent to the use of this report in submissions for assessment credits and for similar regulatory requirements.

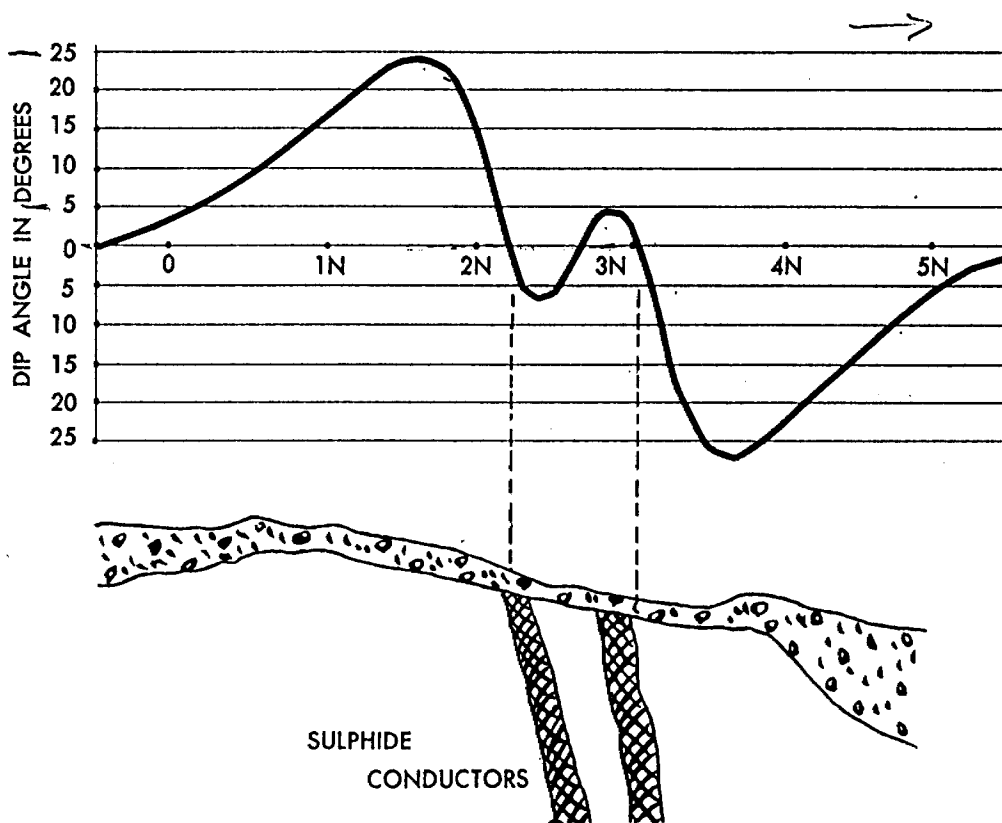
Toronto, Ontario
May 10, 1989



APPENDIX 1
INSTRUMENT SPECIFICATIONS

CRONE RADEM VLF-EM

Example of a RADEM traverse over a Banded Conductor in the Timmins area of Ontario.



SPECIFICATIONS

READOUT — Dip angle of resultant VLF magnetic field component from an inclinometer of $\pm \frac{1}{2}$ degree sensitivity

NULL INDICATOR — Both audio (loudspeaker) and visual by means of an averaging field strength meter

TUNING — Preset switch tuning

BATTERIES — 2 of 9 volt Eveready # 216, independent test indicators

STATIONS — Standard 5 stations — Cutler, Maine 17.8; Seattle, Wash. 18.6; Ft. Collins, Colorado 20.0; Annapolis, Md. 21.4; Balboa, Panama 24.0 KCs.

— Optional — N.W. Cape, Australia 15.5; Lualualei, Hawaii 23.4; Rugby, England 16.0 KCs.

Other stations as they become operational

WEIGHT — Receiver — 4 lb. Leather Case — 2 lb. Shipping Weight — 15 lb.

PRICE — \$2,250.00 Canadian

RENTAL — \$150.00 per month

**TECHNICAL
DESCRIPTION OF
MP-2
MAGNETOMETER**



SCINTREX

RESOLUTION	1 Gamma.
TOTAL FIELD ACCURACY	± 1 Gamma over full operating range.
RANGE	20,000 to 100,000 gammas in 25 overlapping steps.
INTERNAL MEASURING PROGRAMME	Single reading — 3.7 seconds. Recycling feature permits automatic repetitive readings at 3.7 seconds intervals.
EXTERNAL TRIGGER	External trigger input permits use of sampling intervals longer than 3.7 seconds.
DATA OUTPUT	5 digit LED (Light Emitting Diode) readout displaying total magnetic field in gammas or normalized battery voltage. Multiplied precession frequency and gate time outputs for base-station recording using interfacing optionally available from Scintrex.
GRADIENT TOLERANCE	Up to 5000 gammas/metre.
POWER SOURCE	8 alkaline "D" cells provide up to 25,000 readings at 25° C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number.
SENSOR	Omnidirectional, shielded, noise-cancelling dual coil, optimized for high gradient tolerance.
HARNESS	Complete for operation with staff or back pack sensor. -35°C to +60°C.
OPERATING TEMPERATURE RANGE	
SIZE	Console, with batteries: 80 x 160 x 250mm. Sensor: 80 x 150mm. Staff: 30 x 1550mm. (extended) 30 x 600 mm. (collapsed)
WEIGHTS	Console, with batteries: 1.8kg. Sensor: 1.3kg. Staff: 0.6kg.

SCINTREX LIMITED
222 Snidercroft Road,
Concord, Ontario, Canada L4K 1B5

APPENDIX 2
TECHNICAL DATA STATEMENTS



Ministry of Natural Resources

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

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 and ULF Electromagnetic
Township or Area LYNDOCH TWP.
Claim Holder(s) Harrington Sound Resources Inc.
500-67 Richmond St W. Toronto
Survey Company Derry Michener Booth + Wahl
Author of Report R. W Woolham
Address of Author 20 Richmond St. E, Toronto
Covering Dates of Survey Mar 13 to Mar 21, 1987
(linecutting to office)
Total Miles of Line Cut 12.3 km

MINING CLAIMS TRAVERSED
List numerically

50 721568
(prefix) (number)
569
570
571
721577

SPECIAL PROVISIONS
CREDITS REQUESTED

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

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

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

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

DATE: May 9/89 SIGNATURE: R. W Woolham
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

If space insufficient, attach list

OF US ONLY

GEOPHYSICAL TECHNICAL DATA

L 4 N 2 0 0 0 0 0

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

Number of Stations 880/880 Number of Readings 880/880
Station interval 12.5 m Line spacing 100 metres
Profile scale _____
Contour interval 250 nT

MAGNETIC

Instrument Scintrex MP-2
Accuracy - Scale constant See Appendix 1
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument Crone Roldem
Coil configuration See Appendix 1
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency Cutler, Maine 24.0 KHz
(specify V.L.F. station)
Parameters measured dip angle

GRAVITY

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

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____



DOCUMENT NO.
W8900-25

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 this report.

Type of Survey(s) **2.**
MAGNETIC AND VLF-EM (ELEC)



31E01NW0026 2.12456 HERSCHEL

900

Claim Holder(s)
HARRINGTON SOUND RESOURCES

Address
500 - 67 RICHMOND STREET WEST, TORONTO ONTARIO, M5H 1Z5 ✓

Survey Company
DERRY, MICHEWER, BOOTH & WAHL

Date of Survey (from & to) 13 03 89 21 03 89
Day Mo. Yr. Day Mo. Yr. Total Miles of Line Cut 12.3 Km ✓

Name and Address of Author (of Geo-Technical report)
R.W. WOOLHAM 410 - 20 RICHMOND ST. EAST TORONTO ONTARIO MSC 2R9 ✓

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
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days

Complete reverse side and enter total(s) here

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MAR 29 1989

MINING LANDS SECTION

Geophysical	Days per Claim
- Electromagnetic	
- Magnetometer	
- Radiometric	
- Other	
Geological	
Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.

Geophysical	Days per Claim
Electromagnetic	
Magnetometer	
Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed	Ontario Geological Survey
ASSESSMENT FILES	OFFICE
Performed on Claim(s)	JUN 9 1989
Calculation of Expenditure	Days Credits
Total Expenditures	RECEIVED
\$	÷ 15 =

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
SO	721568				
	721569				
	721570				
	721571				
	721572				

SOUTHERN ONTARIO MINING DIV.
RECEIVED
MAR 23 1989
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

Total number of mining claims covered by this report of work. **5**

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	Date Recorded	Mining Recorder
300	March 23/89	R.M. Hynesky
	Date Approved as Recorded	Branch Director
	26 May 89	[Signature]

Date MARCH 22, 1989
Recorded Holder or Agent (Signature) Ian Trinder

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
IAN TRINDER 410 - 20 RICHMOND STREET EAST TORONTO ONTARIO MSC 2R9

Date Certified MARCH 22, 1989
Certified by (Signature) Ian Trinder

Res. Fee. Term



Ministry of Northern Development and Mines

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT No. W8909-17

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.

2.12456

Form header containing: Type of Survey(s) MAGNETIC AND VLF-EM (ELECTROMAGNETIC), Claim Holder(s) HARRINGTON SOUND RESOURCES INC., Address 500-67 RICHMOND ST. WEST, TORONTO ONTARIO, Survey Company DERRY, MICHENER, ROUTH & WAHL, Date of Survey (from & to) 01 03 89 to 12 03 89, Total Miles of line Cut 23.33 Km, Name and Address of Author (of Geo-Technical report) R.W. WOOLHAM SUITE 410 20 RICHMOND ST. EAST, TORONTO, ONTARIO M5C 2R9

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Table with 3 columns: Special Provisions, Geophysical, Days per Claim. Includes rows for first survey (40 days), additional surveys (20 days), and Airborne Credits.

Table with 3 columns: Mining Claim Prefix, Mining Claim Number, Expend. Days Cr. Lists claims 721578 through 1040574.

Form section for Expenditures (excludes power stripping), Type of Work Performed, Performed on Claim(s), Calculation of Expenditure Days Credits (Total Expenditures \$ + 15 = Total Days Credits), and Instructions.

Stamp: SOUTHERN ONTARIO MINING DIV. RECEIVED MAR 13 1989

Total number of mining claims covered by this report of work. 9

For Office Use Only section: Total Days Cr. Recorded 540, Date Recorded March 13/89, Date Approved as Recorded 24 May 89, Mining Reporter M. Chemesky, Branch Director [Signature]

Date MARCH 13, 1989, 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... Name and Postal Address of Person Certifying: IAN TRINDER SUITE 410, 20 RICHMOND ST. EAST, TORONTO, ONTARIO M5C 2R9. Date Certified: MARCH 13, 1989. Certified by: [Signature]

GEOPHYSICAL TECHNICAL DATA

HERSCHELL

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

Number of Stations 1680/1680 Number of Readings 1680/1680

Station interval 12.5 m Line spacing 100 metres

Profile scale _____

Contour interval 250 nT

MAGNETIC

Instrument Scintrex MP-2

Accuracy - Scale constant See Appendix 1

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument Cronc Roldem

Coil configuration See Appendix 1

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency Cutler, Maine 24.0 KHz
(specify V.L.F. station)

Parameters measured dip angle

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

- Off time _____ Range _____

- Delay time _____

- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

Brudenell Twp.

LEGEND

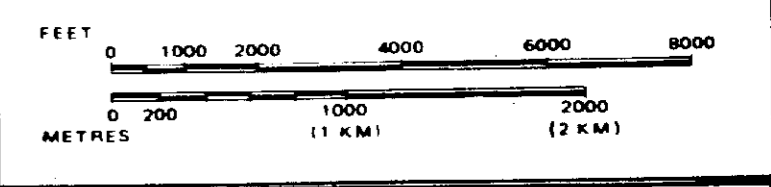
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- 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	

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



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
ONTARIO HYDRO POWER SITE RESERVE				
ONTARIO HYDRO POWER SITE RESERVE				
167, 168 & 169/83	167/83	16/9/83	M+S	188524

DATE OF ISSUE
 DEC 19 1983
 SOUTHERN ONTARIO
 MINES DIVISION

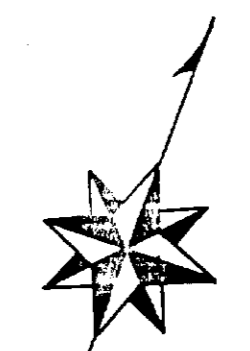
NOTES

Flooding Rights on Madawaska River, Reserved to contour 817, 870 and 925 to Ontario Hydro. FILE= 83050 Vol 1 & 2.
 400' SURFACE RIGHTS RESERVATION ALONG THE SHORE'S OF ALL LAKES AND RIVERS.

TOWNSHIP
LYNDOCH
 M.N.R. ADMINISTRATIVE DISTRICT
PEMBROKE
 MINING DIVISION
 SOUTHERN ONTARIO
 LAND TITLES / REGISTRY DIVISION
RENFREW

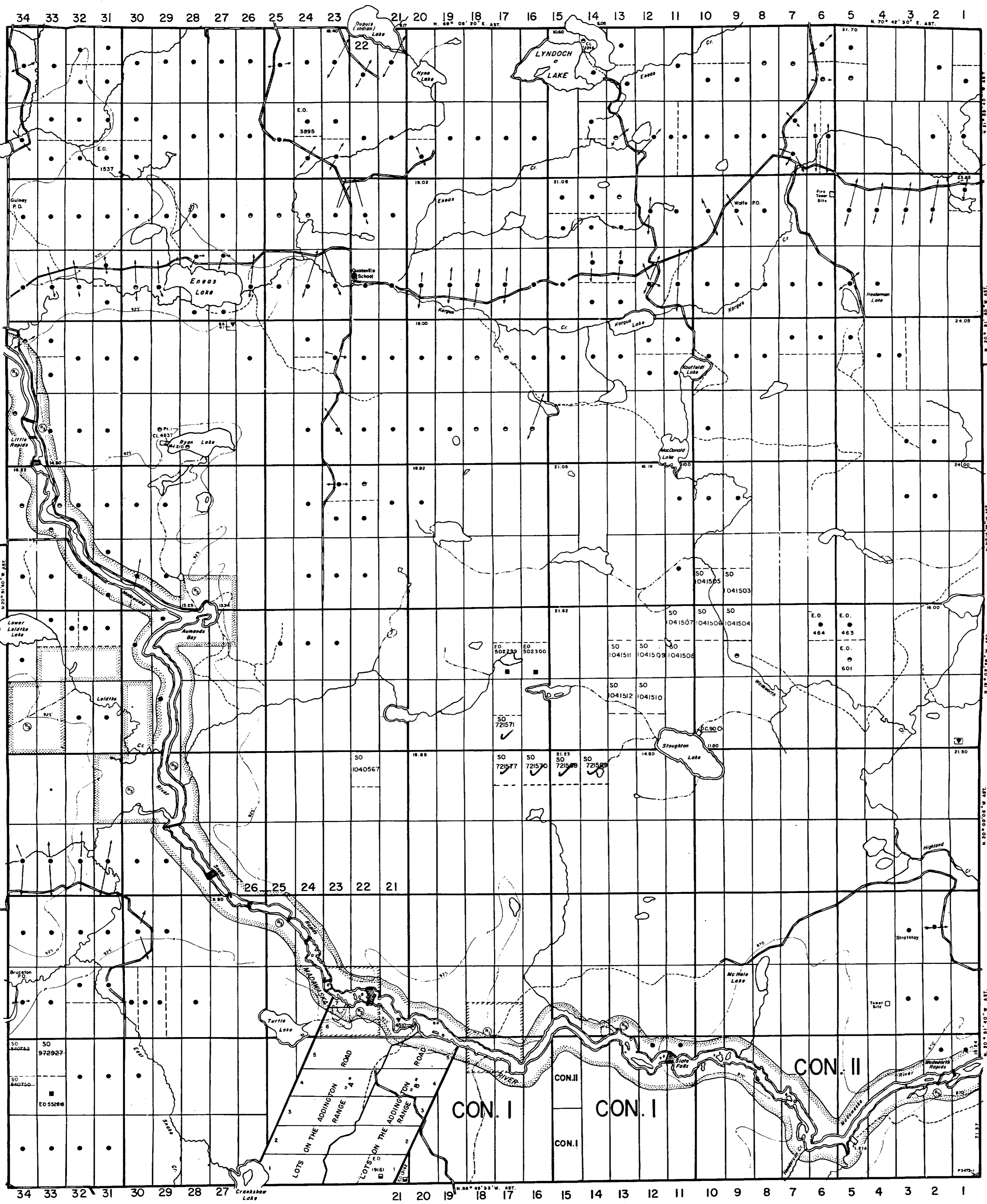
Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date: MARCH 1987
 Number: **G-3400**



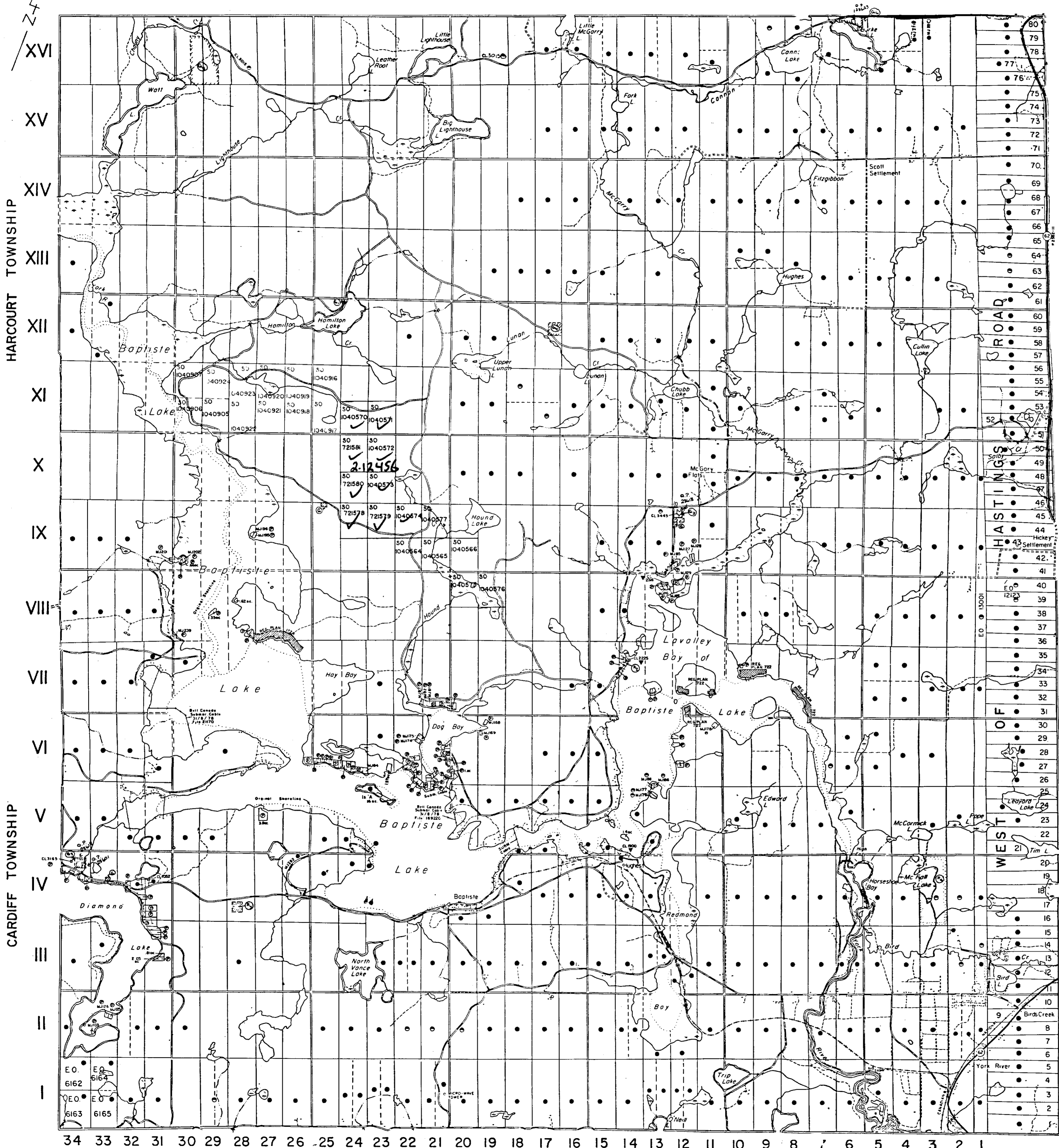
Sebastopol Twp.

Griffith Twp.



McCLURE TOWNSHIP

HERSCHEL TWP.



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
MIN RESERVE	Public Admin	June 19, 1978	S.R.	188503
SEC 34/86		14/2/85	S.R.O.	
431830 1976	W 48/73	2/9/75	M.R.	23249

DATE OF ISSUE
 JUN 27 1988
 SOUTHERN ONTARIO
 MINING DIVISION

NOTES

Original shoreline shown thus:
 F.R.I. shoreline shown thus:
 See D-9 GRABEL

- ① MIN. P.T. # 101
- ② GRABEL FILE 21547
- ③ GRABEL FILE 25672
- ④ MIN. P.T. # 141
- ⑤ GRABEL P.T. # 164 FILE: 123235
- ⑥ GRABEL FILE 13854
- ⑦ QUARRY RESERVE

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

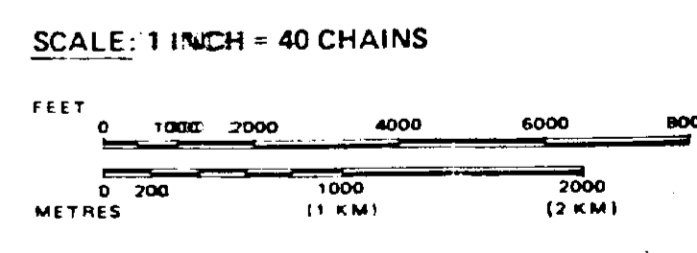
LEGEND

- 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	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊙
MICRO-WAVE TOWER	⊙

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.



TOWNSHIP
HERSCHEL
 M.N.R. ADMINISTRATIVE DISTRICT
BANCROFT
 MINING DIVISION
 SOUTHERN ONTARIO
 LAND TITLES / REGISTRY DIVISION
HASTINGS

Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date: APRIL, 1987
 Number: G-3148



1400 NORTH

1200 NORTH

1000 NORTH

800 NORTH

600 NORTH

400 NORTH

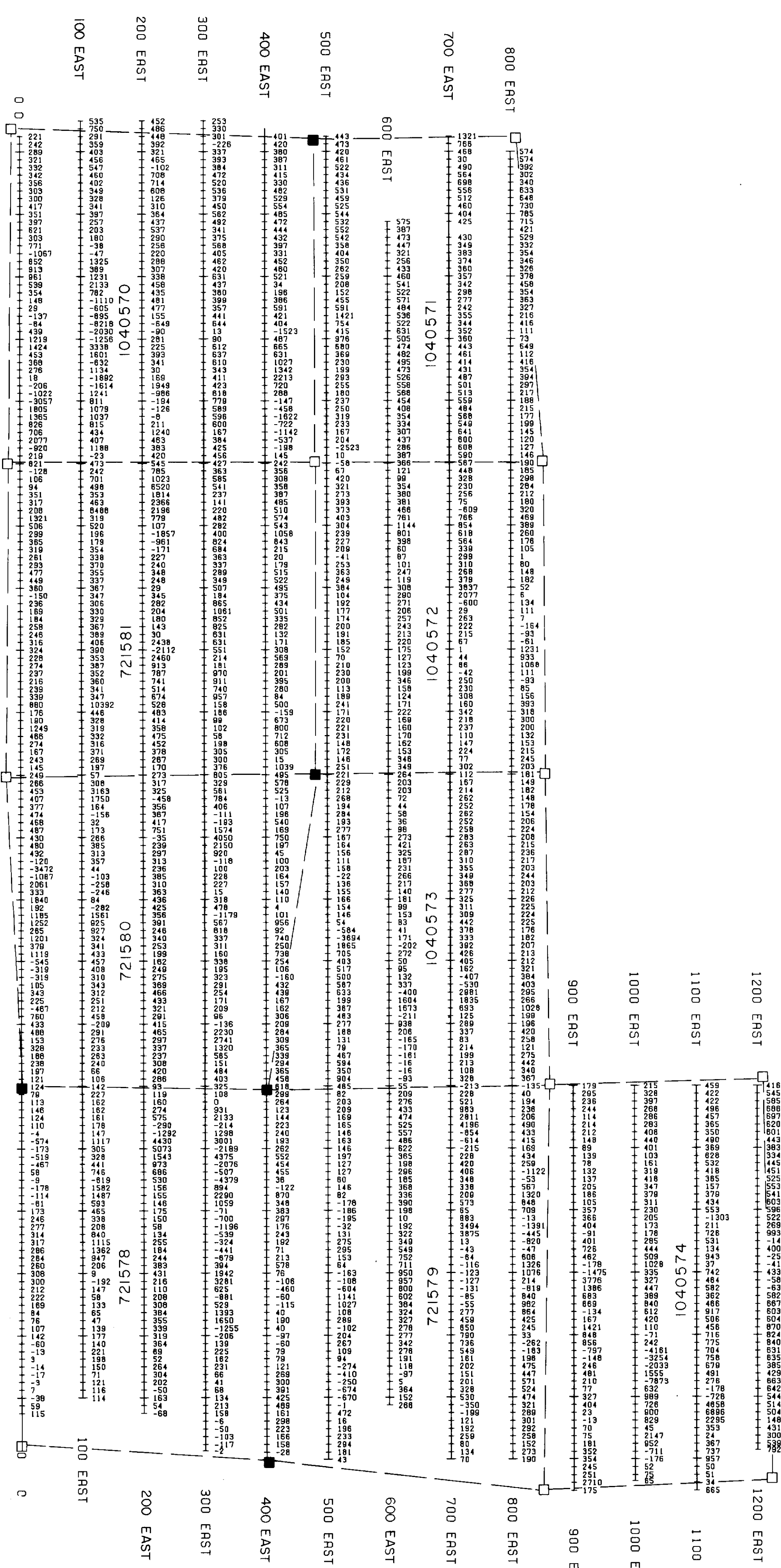
200 NORTH

BASE LINE

200 SOUTH

400 SOUTH

600 SOUTH



1400 NORTH

1200 NORTH

1000 NORTH

800 NORTH

600 NORTH

400 NORTH

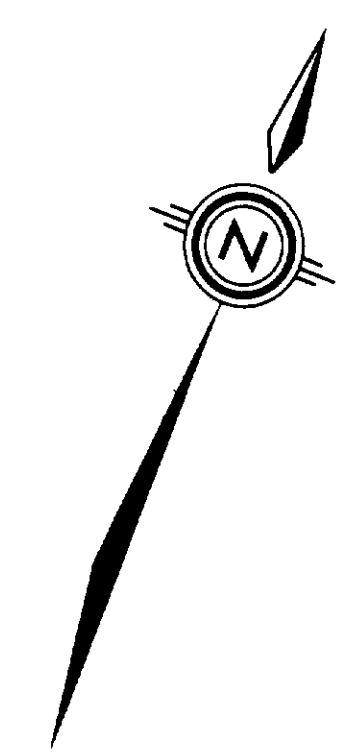
200 NORTH

BASE LINE

200 SOUTH

400 SOUTH

600 SOUTH

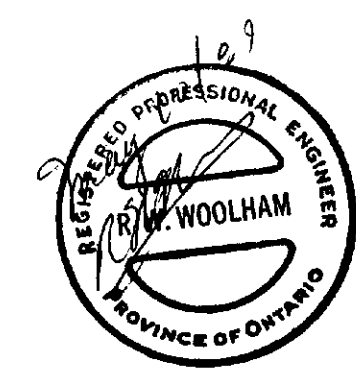


Claim Post observed/unobserved

INSTRUMENT: SCINTREX MP-2 MAGNETOMETER

MEASUREMENT: TOTAL FIELD

Values shown are in nanotesla (nT)
relative to a datum of 57000 nT

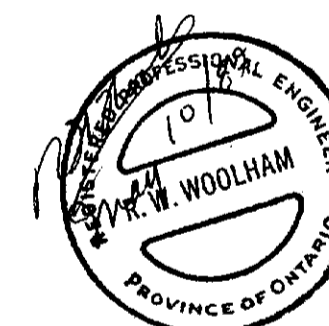
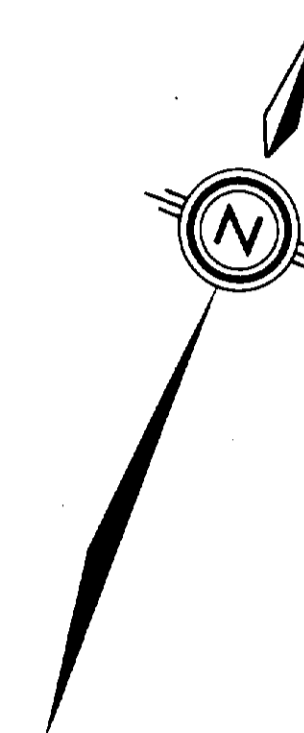


50 0 50 100 150 200
SCALE 1:5000

2.12456

HARRINGTON SOUND RESOURCES INC.			
BANCROFT GRAPHITE PROPERTY			
HERSCHEL TOWNSHIP, ONTARIO			
TOTAL FIELD MAGNETIC SURVEY		REVISION#	
HERSCHEL SURVEY GRID		FILE#	HERMAG.PRT
POSTED VALUES		DRAWING NO.	89-32-01
DRAWN BY:	APPROVED BY:	N.T.S./	DATE:
S.L.B.	R.W.V.	31 E/1	5/1/89
DERRY, MICHENER, BOOTH & WAHL			
TORONTO		CANADA	
<small>THESE DRAWINGS ARE THE PROPERTY OF DERRY, MICHENER, BOOTH & WAHL AND MAY NOT BE USED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION</small>			





INSTRUMENT: CRONE RADEM
TRANSMITTING STATION: CUTLER, MAINE
FREQUENCY: 24 kHz

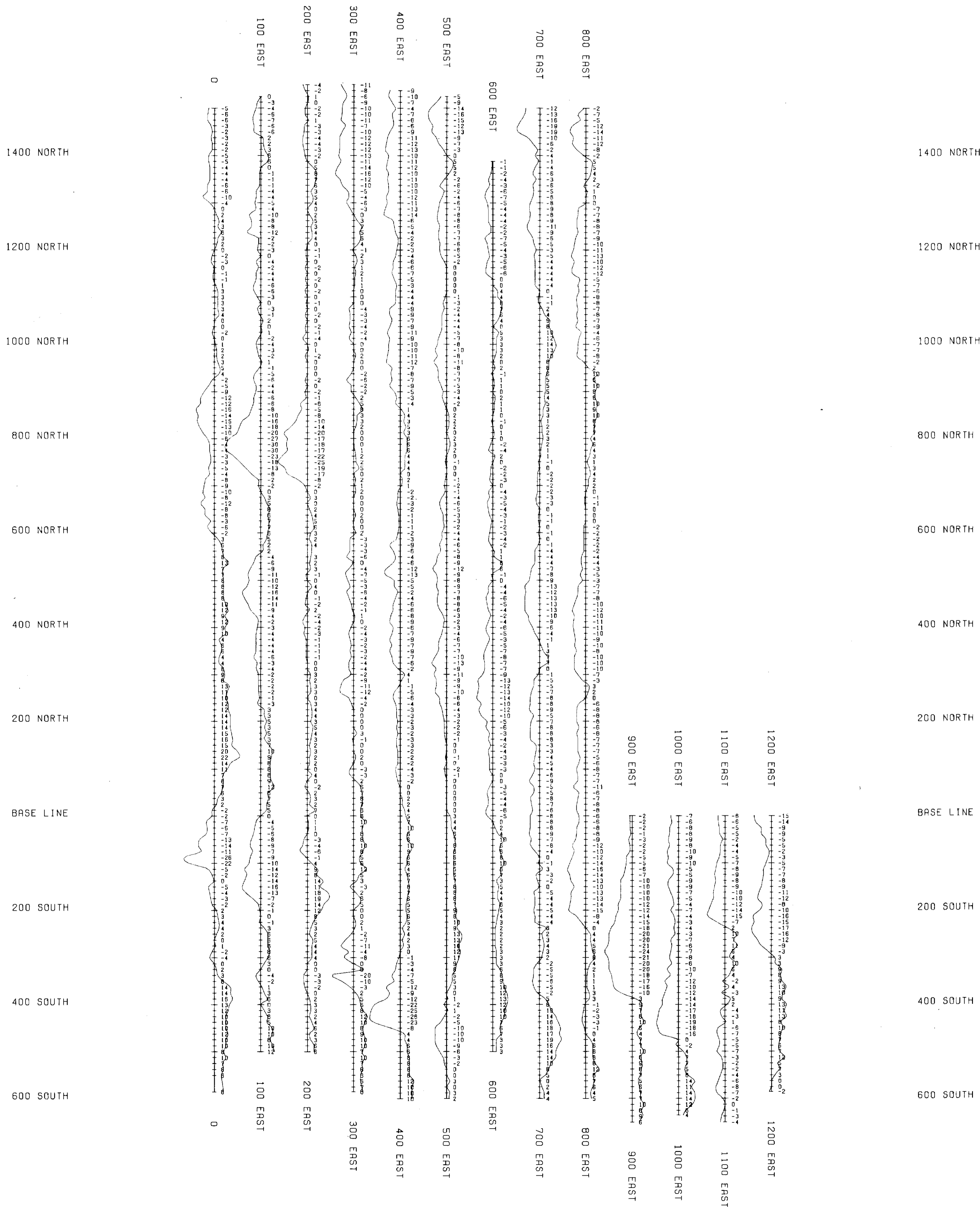
Values shown are the dip angle in degrees
Conductive response indicated by a change of dip
from positive to negative in a southerly direction

PROFILE SCALE: 1 cm = 20 UNITS

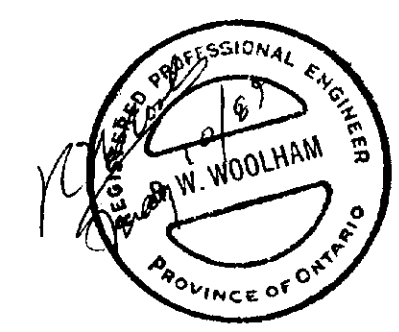
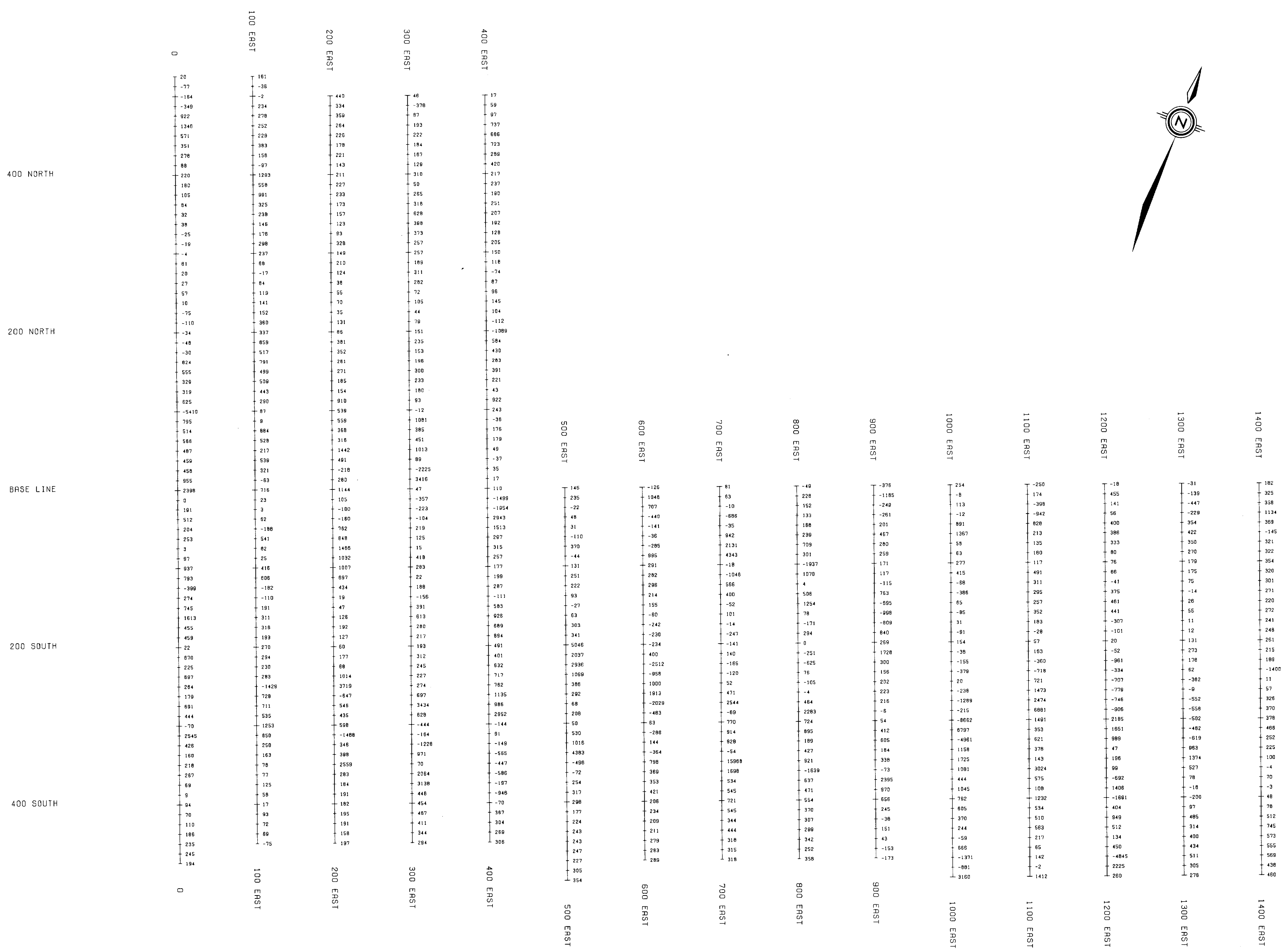
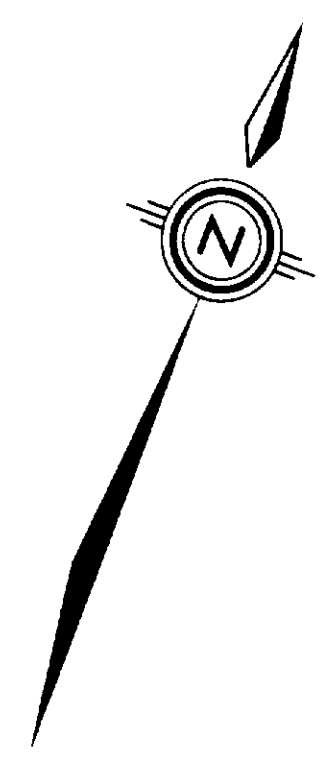
50 0 50 100 150 200

2.12456 1:5000

HARRINGTON SOUND RESOURCES INC.			
BANCROFT GRAPHITE PROPERTY			
HERSCHEL TOWNSHIP, ONTARIO			
VLF-ELECTROMAGNETIC SURVEY		REVISION	
HERSCHEL SURVEY GRID		FILE:	LYNVLF.PRT
PROFILE MAP		DRAWING NO:	89-32-03
DRAWN BY: S.L.B.	APPROVED BY: R.W.W.	N.T.S.: 31 E/1	DATE: 5/1/89
DERRY, MICHENER, BOOTH & WAHL			
TORONTO			CANADA
THESE DRAWINGS ARE THE PROPERTY OF DERRY, MICHENER, BOOTH & WAHL AND MAY NOT BE USED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION			



31E01N0026 2.12456 HERSCHEL



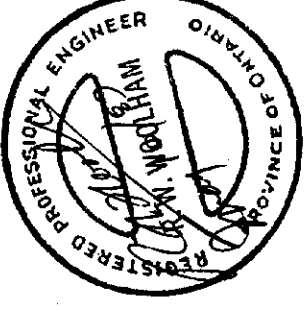
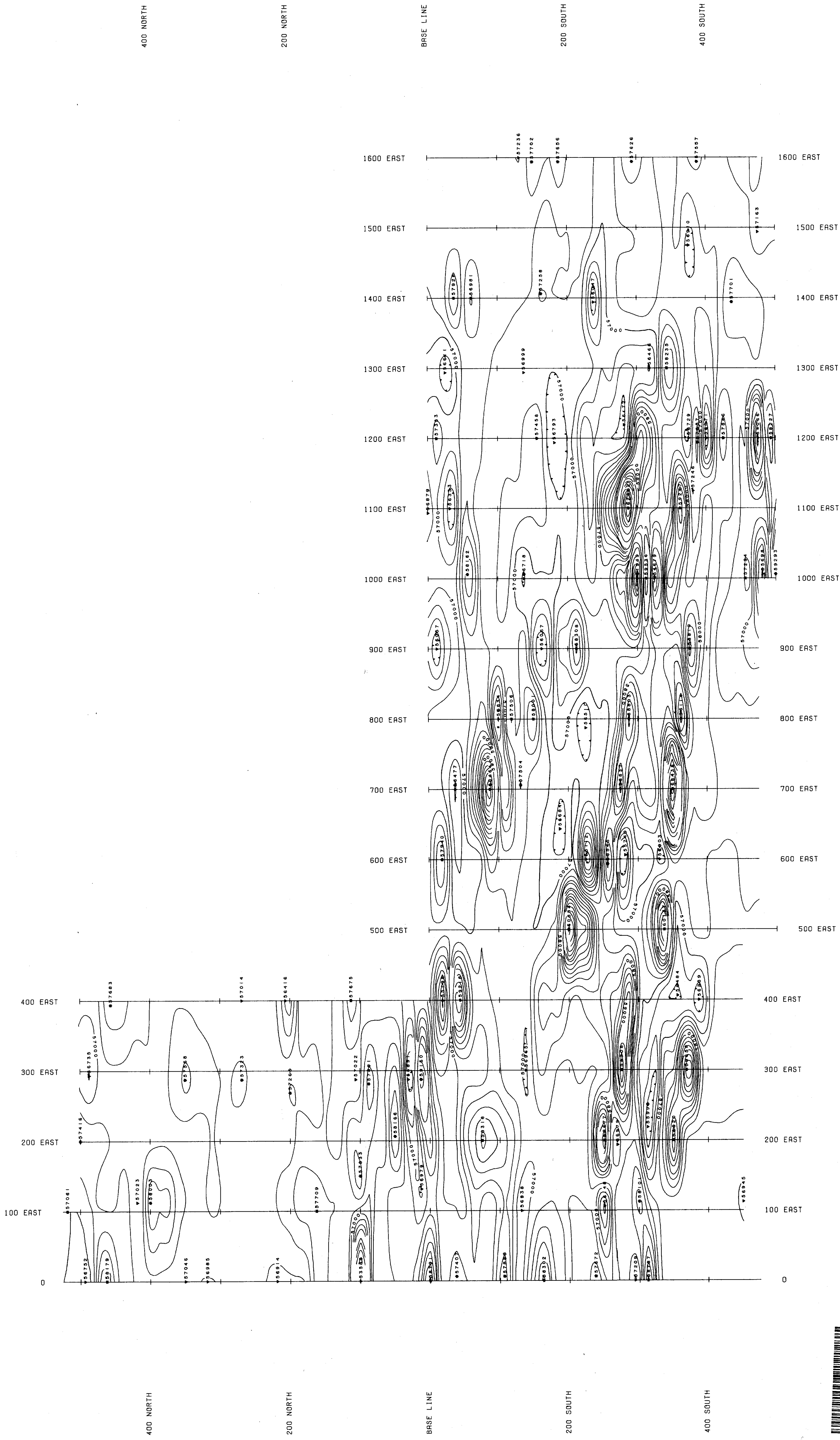
INSTRUMENT: SCINTREX MP-2 MAGNETOMETER
 MEASUREMENT: TOTAL FIELD
 Values shown are in nanotesla (nT)
 relative to a datum of 57000 nT

2.12456

25 0 25 50 75 100
 SCALE 1:2500

HARRINGTON SOUND RESOURCES INC.			
BANCROFT GRAPHITE PROPERTY			
LYNDOCH TOWNSHIP, ONTARIO			
TOTAL FIELD MAGNETIC SURVEY LYNDOCH SURVEY GRID POSTED VALUES			REVISION
			FILE LYNMA6PLT
			DRAWING NO. 89-32-04
DRAWN BY: S.L.B.	APPROVED BY: R.V.W.	NTS/ 31 F/6	DATE: 4/11/89
DERRY, MICHENER, BOOTH & WAHL TORONTO CANADA			
<small>THESE DRAWINGS ARE THE PROPERTY OF DERRY, MICHENER, BOOTH & WAHL AND MAY NOT BE USED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION</small>			

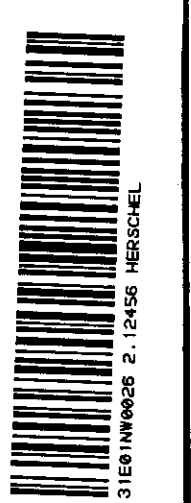


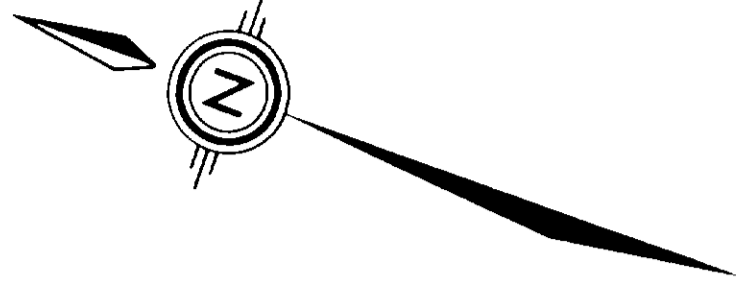


INSTRUMENT: SCINTREX MP-2 MAGNETOMETER
 MEASUREMENT: TOTAL FIELD
 Values shown are in nanotesla (nT)
 relative to a datum of 57000 nT
 CONTOUR INTERVAL: 250 nT

2.12456
 25 0 25 50 75 100
 SCALE 1:2500

HARRINGTON SOUND RESOURCES INC.	
BANCROFT GRAPHITE PROPERTY	
LYNDOCH TOWNSHIP, ONTARIO	
TOTAL FIELD	89-32-05
MAGNETIC SURVEY	
LYNDOCH SURVEY GRID	
CONTOUR MAP	
APPROVED BY: R.V.M.	DATE: 5/1/89
S.L.B.	31 1/2
DERRY, MICHENER, BOOTH & WAHL	
TORONTO CANADA	





INSTRUMENT CRONE RADEK
TRANSMITTING STATION CUTLER, MAINE

FREQUENCY: 84 kHz
Values shown are the dip angle in degrees
Conductive response indicated by a change of dip
from positive to negative in a southerly direction
PROFILE SCALE: 1cm = 15 degrees

25 0 25 50 75 100
SCALE: 1:2500

2. 12456

HARRINGTON SOUND RESOURCES INC.	
BANCROFT GRAPHITE PROPERTY	
LYNDOCH TOWNSHIP, ONTARIO	
VLF-ELECTROMAGNETIC SURVEY	REVISION
LYNDOCH SURVEY GRID	REVISION
DATE: 89-32-06	DRAWING NO.
APPROVED BY: D.J.M.	DATE: 89-32-06
BY: D.J.M.	DATE: 89-32-06
DERRY, MICHENER, BOOTH & WAHL	
TORONTO CANADA	
225 WEST WYNDHAM STREET, 12TH FLOOR, TORONTO, ONT. M5H 1B5	

