



41P12SW0032 2.11643 CHESTER

010

REPORT ON AN

**AIRBORNE MAGNETIC
AND VLF-EM SURVEY**

CHESTER TOWNSHIP

PORCUPINE MINING DIVISION, ONTARIO

for

SEAWAY BASE METALS LTD.

by: **TERRAQUEST LTD.**

Toronto, Canada

July 6, 1988

RECEIVED

SEP 22 1988

MINING LANDS SECTION



41P12SW0032 2.11643 CHESTER

010C

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Introduction

This report describes the specifications and results of a geophysical survey carried out for Seaway Base Metals Ltd. of 20 Advance Blvd., Brampton, Ontario, L6T 4R7 by Terraquest Ltd., 240 Adelaide Street West, Toronto, Canada. The field work was completed on April 25, 1988 and the data processing, interpretation and reporting from April 26 to July 7, 1988.

The purpose of a survey of this type is two-fold. First to prospect directly for anomalously conductive and magnetic areas in the earth's crust which may be caused by, or at least related to, mineral deposits. A second is to use the magnetic and conductivity patterns derived from the survey results to assist in mapping geology, and to indicate the presence of faults, shear zones, folding, alteration zones and other structures potentially favourable to the presence of gold and base-metal concentration. To achieve this purpose the survey area was systematically traversed by an aircraft carrying geophysical instruments along parallel flight lines spaced at even intervals, 100 metres above the terrain surface, and aligned so as to intersect the regional geology in a way to provide the optimum contour patterns of geophysical data.

2. The Property

The property is located in the northwest quadrant of Chester township, in the Porcupine Mining Division of Ontario about 115 kilometres southwest of the town of Timmins. The property can be reached from bush roads to the southeast.

The latitude and longitude are 47 degrees 35 minutes, and 81 degrees 55 minutes respectively, and the N.T.S. reference is 4P/12.

The claim numbers are shown in figure 2 and listed below:

P 980495-980497 (3)
980501-980524 (24)
881217-881230 (14)
Total of 41 claims

3. Geology

Map References

1. Map 2205: Timmins-Kirkland Lake, Geological Compilation Series.

Scale 1:253,440
O.D.M. 1973.

2. Map P2449: Chester and Yeo Townships and parts of Neville and Potier Townships
Scale 1:15,840
O.G.S. 1981

The survey area is underlain by an east-west trending belt of mafic metavolcanic flows to the north, and intermediate pyroclastic metavolcanics to the south. Migmatitic rocks occur around the southern half of Bagsverd Lake and are composed primarily of hornblende diorite derived from the metamorphic recrystallization of the metavolcanics. The metavolcanics are bounded to the north and south by massive granitic rocks of trondhjemitic to granodioritic composition. All rock types have been intruded by a swarm of northwest trending diabase dykes. Regional faults trend to the northwest parallel to the dykes.

Numerous sulphide showings occur within the batholithic intrusives to the south and within the intermediate pyroclastic metavolcanics beyond the property to the east.

4. Survey Specifications

4.1 Instruments

The survey was carried out using a Cessna 182 aircraft, registration C-FAKK, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer is a proton precession type based on the Overhauser effect. The Overhauser effect allows for polarization of a proton rich liquid of the sensor by adding a "free radical" to it and irradiating it by RF magnetic field. Strong precession signals are generated with modest RF power. The sensor element is mounted in an extension of the right wing tip. Its specifications are as follows:

Model: GSM-9BA
Manufacturer: GEM Systems Inc.
105 Scarsdale Road
Don Mills, Ontario
Resolution: 0.5 gamma
Accuracy: 0.5 gamma
Cycle time: 0.5 second
Range: 20,000-100,000 gammas in 23 overlapping steps

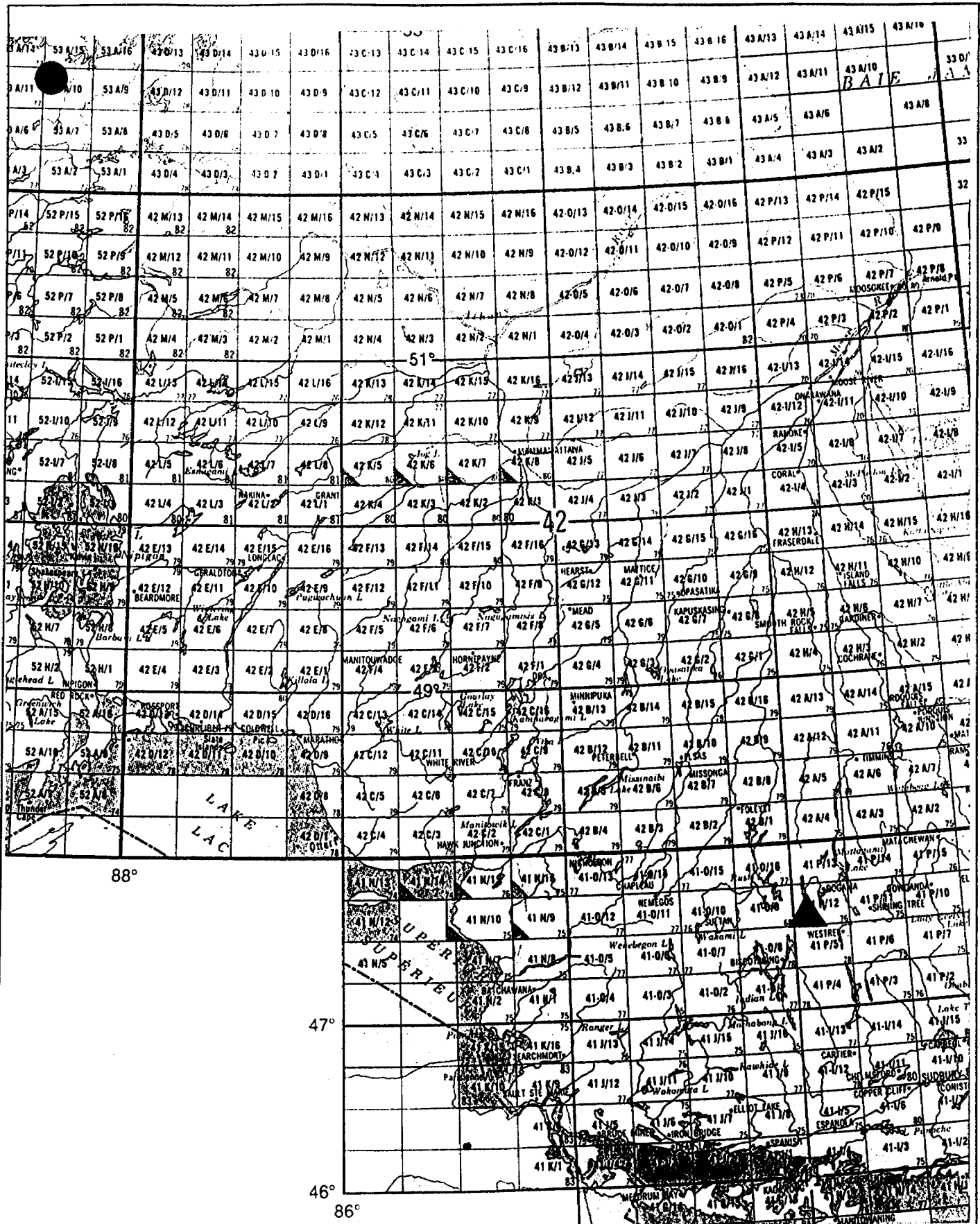
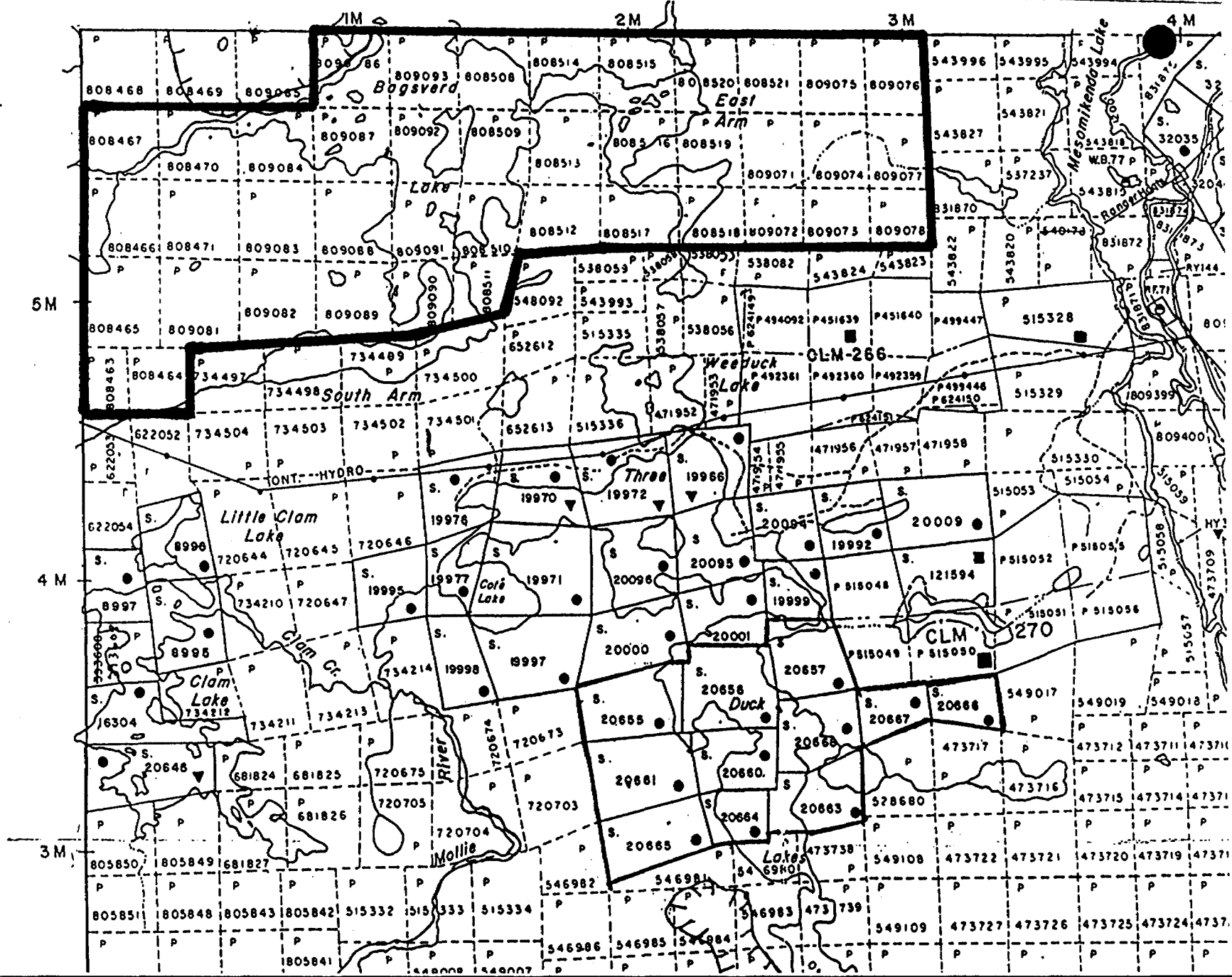


FIGURE 1. General Location



FIGURE 2. Claim Location Map (exact locations not certified)



● Gradient tolerance: Up to 5,000 gammas/m

The VLF-EM unit uses three orthogonal detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase between the vertical coil and both the "along line" coil (LINE) and the "cross-line" coil (ORTHO). The LINE coil is tuned to a transmitter station (Channel 1) that is ideally positioned at right angles to the flight lines, while the ORTHO coil transmitter (Channel 2) should be in line with the flight lines. It's specifications are:

Model: TOTEM 2A

Manufacturer: Herz Industries
Toronto, Canada

Accuracy: 1%

Reading interval: 0.5 second

The VLF sensor is mounted in the left wing tip extension.

Other instruments are:

- King KRA-10A radar altimeter
- PDAS-1100 data acquisition system with two 3.5" floppy disk drives manufactured by Picodas Group Inc., Richmond Hill, Ontario
- Geocam video camera and recorder for flight path recovery, manufactured by Geotech Ltd., Markham, Ontario.
- PBAS-9000 portable field base station with a 3.5" floppy disk drive and an analog print out manufactured by Picodas Group Inc., Richmond Hill, Ontario, coupled with a GSM-8 proton magnetometer manufactured by Gem Systems Inc., Toronto, Ontario.

4.2 Lines and Data

Line spacing: 100 metres

Line direction: 360 degrees

Terrain clearance: 100 m

Average ground speed: 156 km/hr

Data point interval:

Magnetic: 27 metres

VLF-EM: 27 metres

Tie Line interval: 2 km

Channel 1 (LINE): NAA Cutler, 24.0 kHz

Channel 2 (ORTHO): NSS Annapolis, 21.4 kHz

Line km over total survey area including overrun: 135 line km

Line km over claim groups:

Magnetic survey totals: 82 line km

VLF-EM survey totals: 82 line km

4.3 Tolerances

Line spacing: Any gaps wider than twice the line spacing and longer than 10 times the line spacing were filled in by a new line.

Terrain clearance: Portions of line which were flown above 125 metres for more than one km were reflight if safety considerations were acceptable.

Diurnal magnetic variation: Less than twenty gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.

Manoeuvre noise: Approximately +/- 5 gammas.

4.4 Photomosaics

For navigating the aircraft and recovering the flight path, semi-controlled mosaics of aerial photographs were made from existing air photos. Each photograph forming the mosaic was adjusted to conform to the NTS map system before the mosaic was assembled.

5. Data Processing

Flight path recovery was carried out in the field using a video tape viewer to observe the flight path as recorded by the Geocam video camera system. The flight path recovery was completed daily to enable reflights to be selected where needed for the following day.

The magnetic data was levelled in the standard manner by tying survey lines to the tie lines. The IGRF has not been removed. The total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is gridded at a grid cell spacing of 1/10th of an inch at map scale.

The vertical magnetic gradient is computed from the total field data using a method of transforming the data set into the frequency domain, applying a

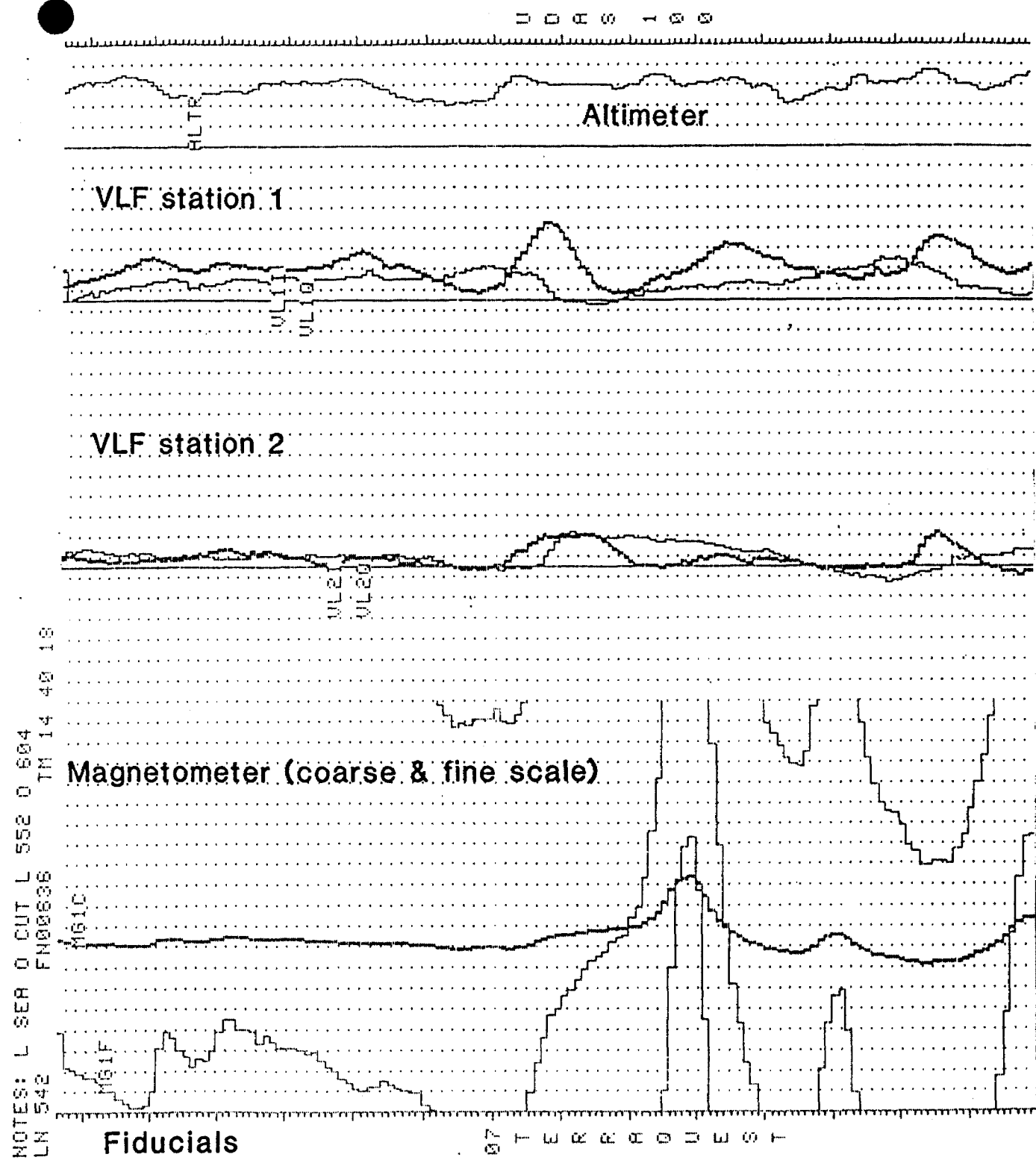


FIGURE 3. Sample of analogue data

transfer function to calculate the gradient, and then transforming back into the spatial domain. The method is described by a number of authors including Grant, 1972 and Spector, 1968. The computer program for this purpose is provided by Paterson, Grant and Watson Ltd. of Toronto.

The VLF data was treated automatically so as to normalize the non conductive background areas to 100 (total field strength) and zero (quadrature). The algorithms to do this were developed by Terraquest and will be provided to anyone interested by application to the company.

All of these dataprocessing calculations and map contouring were carried out by Dataplotting Services Inc. of Toronto.

Grant, F.S. and Spector A., 1970: Statistical Models for Interpreting Aeromagnetic Data; Geophysics, Vol 35

Grant, F.S., 1972: Review of Data Processing and Interpretation Methods in Gravity and Magnetism; Geophysics Vol 37-4

Spector, A., 1968: Spectral Analysis of Aeromagnetic maps; unpublished thesis; University of Toronto.

6. Interpretation

6.1 General Approach

To satisfy the purpose of the survey as stated in the introduction, the interpretation procedure was carried out on both the magnetic and VLF data. On a local scale the magnetic gradient contour patterns were used to outline geological units which have different magnetic intensity and patterns or "signatures". Where possible these are related to existing geology to provide a geological identity to the units. On a regional scale the total field contour patterns were used in the same way.

Faults and shear zones are interpreted mainly from lateral displacements of otherwise linear magnetic anomalies but also from long narrow "lows". The direction of regional faulting in the general area is taken into account when selecting faults. Folding is usually seen as curved regional patterns. Alteration zones can show up as anomalously quiet areas, often adjacent to strong, circular anomalies that represent intrusives. Magnetic anomalies that are caused by iron deposits of ore quality are usually

obvious owing to their high amplitude, often in tens of thousands of gammas.

VLF anomalies are categorized according to whether the phase response is normal, reverse, or no phase at all. The significance of the differing phase responses is not completely understood although in general reverse phase indicates either overburden as the source or a conductor with considerable depth extent, or both. Normal phase response is theoretically caused by surface conductors with limited depth extent. In some cases, a change in the orientation of the conductor appears to affect the sense of the phase response.

Areas showing a smooth VLF-EM response somewhat above background (ie. 110 or so) are likely caused by overburden which is thick enough and conductive enough to saturate at these frequencies. In this case no response from bedrock is seen.

The VLF-EM conductor axes have been identified and evaluated according to the Terraquest classification system (Figure 4). This system correlates the nature and orientation of the conductor axes with stratigraphic, structural and topographic features to obtain an association from which one or more origins may be selected. Alternate associations are indicated in parentheses.

6.2 Interpretation

The magnetic and VLF-EM data are shown in contoured format on maps at a scale of 1:10,000 in the back pocket. An interpretation map is also provided. The following notes are intended to supplement these maps.

The total magnetic field has a relief of approximately 450 gammas and is dominated by narrow anomalies trending to the northwest and broad anomalies south of the property trending to the northeast. The vertical magnetic gradient data is particularly useful for the enhancement of the weaker magnetic trends across the central part of the survey area.

The strong magnetic responses to the south correlate with the batholithic intrusive (Unit 6). The strongest responses (Unit 6m) within this unit correlate with sulphide occurrences and therefore are probably related to increased concentrations of pyrrhotite or magnetite.

The narrow northwest trending magnetic anomalies are interpreted as diabase dykes (Unit 8).

FIGURE 4

TERRAQUEST CLASSIFICATION OF VLF-EM CONDUCTOR AXES

<u>SYMBOL</u>	<u>CORRELATION</u>	<u>ASSOCIATION: Possible Origins</u>
a , A	Coincident with magnetic stratigraphy	Bedrock magnetic horizons: stratabound mineralogic origin or shear zone
b , B	Parallel to magnetic stratigraphy	Bedrock non-magnetic horizons: stratabound mineralogic origin or shear zone
c , C	No correlation with magnetic stratigraphy	Association not known: possible small scale stratabound mineralogic origin, fault or shear zone, overburden
d , D	Coincident with magnetic dyke	Dyke or possible fault: mineralogic or electrolytic
f , F	Coincident with topographic lineament or parallel to fault system	Fault zone: mineralogic or electrolytic
ob , OB	Contours of total field response conform to topographic depression	Most likely overburden: clayey sediments, swampy mud
cul , CUL	Coincident with cultural sources	Electrical, pipe or railway lines

NOTES

- 1 - Upper case symbols denote a relatively strong total field strength
- 2 - Underlined symbols denote a relatively strong quadrature response
- 3 - Mineralogic origins include sulphides, graphite, and in fault zones, gouge
- 4 - Electrolytic origins imply conductivity related to porosity or high moisture content

There appear to be two generations of diabase dykes, one to the north-northwest and one to the northwest. The north-northwest set are more frequent and appear to be truncated by the northwest set.

Most of the remaining magnetic responses are interpreted to be derived from either the mafic metavolcanics (Unit 1) or the intermediate pyroclastic metavolcanics (Unit 2). The magnetic responses from these two units are very similar and it is difficult to discriminate between these two rock types, however the mafic metavolcanics to the north correlate with slightly stronger responses. Magnetic horizons within both of these units (Units 1m and 2m) may be related to increased concentrations of magnetic minerals such as magnetite or pyrrhotite, or possibly to more mafic compositions. The magnetic responses over the migmatitic rock (Unit 5) are similar to those of the metavolcanics.

Three fault or shear sets have been identified by the magnetic mapping. East-west faults occur to the north and south of the property and probably represent large scale regional features. Most of the interpreted structures trend to the northeast and are the easiest to detect because they cross-cut both the stratigraphy and the diabase dykes at high angles. A few structures trend to the northwest and appear to be the earliest faults displaced by the northeast trending faults.

The VLF-EM survey has identified numerous weak to strong total field strength conductor axes with moderate quadrature values. Conductive overburden is the probable cause of the conductivity where the contours of the total field strength conform with the lakes, swamps and river valleys and suggests that conductive overburden is restricted to topographic depressions.

Most of the remaining conductor axes are associated with structural sources, either faults or shear zones. This conductivity may originate from a) minerals such as sulphides, graphite or gouge along the structure, or b) an ionic effect created by water or porosity within the structure or to conductive overburden in an overlying topographic depression. Structures identified by VLF-EM or magnetic techniques should be investigated for potential epithermal type mineralization.

7. Summary

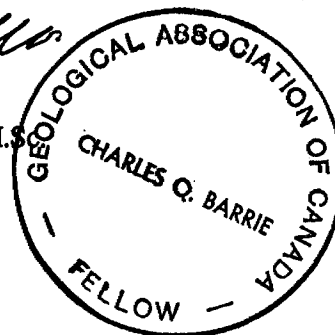
An airborne combined magnetic and VLF-EM survey has been done on the property at line intervals of 100 metres. The total field and vertical gradient magnetic data, VLF-EM data and interpretation maps are produced at a scale of 1:10,000.

The magnetic data has been used to modify and update the existing geology and has shown a number of new contacts and faults. A number of VLF-EM conductor axes were found most of which are associated with structural origins. These have been recommended for ground follow up for epithermal type mineralization.

TERRAQUEST LTD.



Charles Q. Barrie, M.S.
Geologist





2.11643

Mining Act

Type of Survey(s): AIRBORNE GEOPHYSICAL (EM + MAG)
 Claim Holder(s): SCARAWAY BASE METALS LIMITED
 Address: 20 ADVANCE BLVD. BRAMPTON ONT.
 Township or Area: CHESTER TWP
 Prospector's Licence No.: T 4833
 Survey Company: TERRAQUEST LTD
 Date of Survey (from & to): 25/08/88 to 07/09/88
 Total Miles of line Cut: 82 km
 Name and Address of Author (of Geo-Technical report): CHARLES BARRIE, 240 ADELAIDE ST. W. TORONTO M5H 1W7

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	
	- Magnetometer	
	- Radiometric	
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	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	40
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	40
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	881217		P	980507	
	881218			980508	
	881219			980509	
	881220			980510	
	881221			980511	
	881222			980512	
	881223			980513	
	881224			980514	
	881225			980515	
	881226			980516	
	881227			980517	
	881228			980518	
	881229			980519	
	881230			980520	
	980495			980521	
	980496			980522	
	980497			980523	
	980501			980524	
	980502				
	980503				
	980504				

Expenditures (excludes power stripping)

Type of Work Performed: [REDACTED]

Performed on Claim(s): [REDACTED]

Calculation of Expenditure Days Credits

Total Expenditures: \$ [] = Total Days Credits: 15

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.

Date: Aug 11/88
 Reported Holder or Agent Signature: [Signature]

RECEIVED OCT 24 1988

MINING LANDS SECTION

Total number of mining claims covered by this report of work: 41

OCT 31 1988

For Office Use Only

Total Days Recorded: 3280
 Date Approved as Recorded: 28 Oct 88
 Mining Recorder: [Signature]
 Branch Director: [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: NEIL D. NJAK, 20 ADVANCE BLVD. BRAMPTON ONT. L6T 4K7

Date Certified: Aug 11/88
 Certified by (Signature): [Signature]



File _____

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) AIRBORNE MAGNETIC AND VLF (EM)
Township or Area CHESTER TWP
Claim Holder(s) SEAWAY BASE METALS LIMITED.
LIC. # T4833
Survey Company TERRAQUEST LTD
Author of Report CHARLES Q. BARRIE.
Address of Author TORONTO ONTARIO (240 Adelaide St. W.)
Covering Dates of Survey April 25 - July 27 1988
(linecutting to office)
Total Miles of Line Cut 82 line kms. (flown)

MINING CLAIMS TRAVERSED
List numerically

- P- 881217 (prefix) P- 980506 (number)
- 881218 980507
- 881219 980508
- 881220 980509
- 881221 980510
- 881222 980511
- 881223 980512
- 881224 980513
- 881225 980514
- 881226 980515
- 881227 980516
- 881228 980517
- 881229 980518
- 881230 980519
- 980495 980520
- 980496 980521
- 980497 980522
- 980501 980523
- 980502 980524
- 980503
- 980504
- 980505

SPECIAL PROVISIONS CREDITS REQUESTED	RECEIVED	Geophysical	DAYS
			per claim
ENTER 40 days (includes line cutting) for first survey.	SEP 22 1988	- Electromagnetic	40 nd
ENTER 20 days additional survey using same grid.		- Radiometric	40 nd
		- Other	
		Geological	
		Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer 40 Electromagnetic 40 Radiometric _____
(enter days per claim)

DATE: Sept 19/88 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.8305

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 41

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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



Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____ (specify V.L.F. station)

Parameters measured _____

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 _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) AIRBORNE MAGNETIC AND ULF-EM SURVEY

Instrument(s) (MAG) GSM-98A (ULF) TOTEM 2A
(specify for each type of survey)

Accuracy (MAG) 0.5 gamma (ULF) 1%
(specify for each type of survey)

Aircraft used CESSNA 182 REGISTRATION C-FAKK

Sensor altitude 100m (on wingtips)

Navigation and flight path recovery method KING KRA-10A radar altimeter, PDAS-1100 data acquisition, Geacam video camera, PBAS 9000 portable field base station endog reader

Aircraft altitude 100m (average) Line Spacing 10 metres

Miles flown over total area 135 line km Over claims only 82 line km

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

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
(R) SEC 36/80		19/2/80	S.R.O.	171509

SAND AND GRAVEL

- (G) QUARRY PERMIT
- (M) M.T.C. PIT No 1349
- (N) M.T.C. GRAVEL PIT No 1649
- (O) M.T.C. GRAVEL PIT No 1385

NOTES

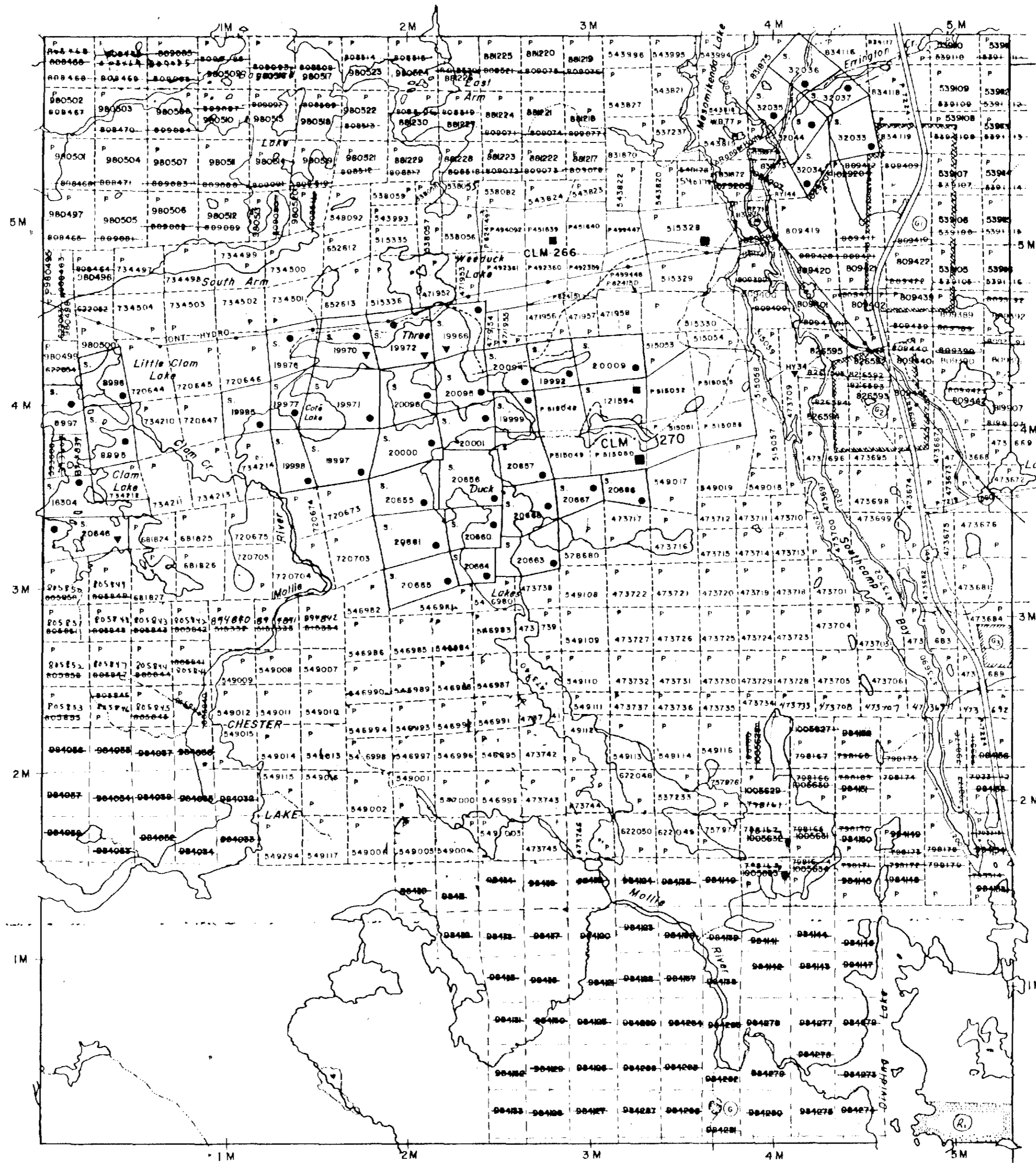
FLOODING RIGHTS TO CONTOUR 1200' RESERVED TO
DNT. HYDRO. LOC. HY 36, L.O. 7543, FILE 10621

NEVILLE TP.

YEO TP.

BENNEWEIS TP.

INVERGARRY TP.



LEGEND

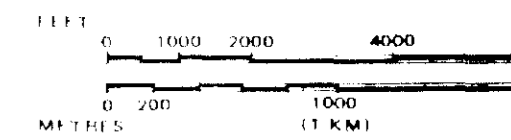
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS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

DISPOSITION OF CROWN

- TYPE OF DOCUMENT
- 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
1913, VISITED IN ORIGINAL PATENT
LANDS ACT, R.S.O. 1970, CHAP. 380.

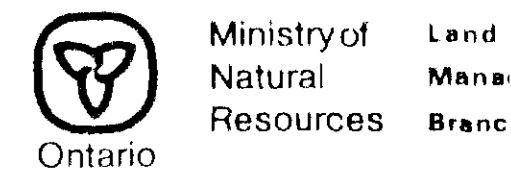
SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

CHESTER

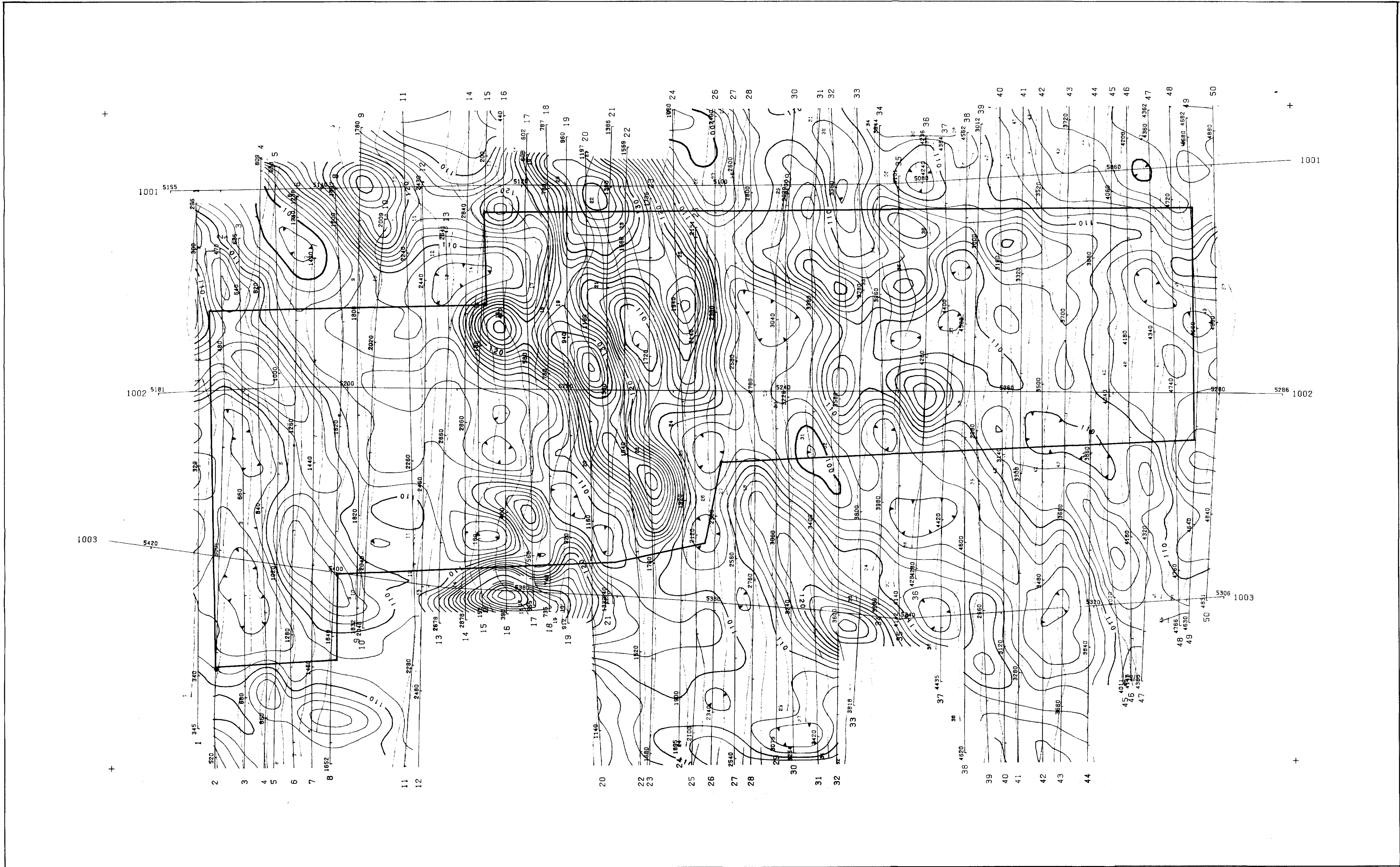
M.N.R. ADMINISTRATIVE DISTRICT
GOGAMA
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY



Date MARCH, 1985

Rec'd Apr. 4/85
checked L.H.
G-





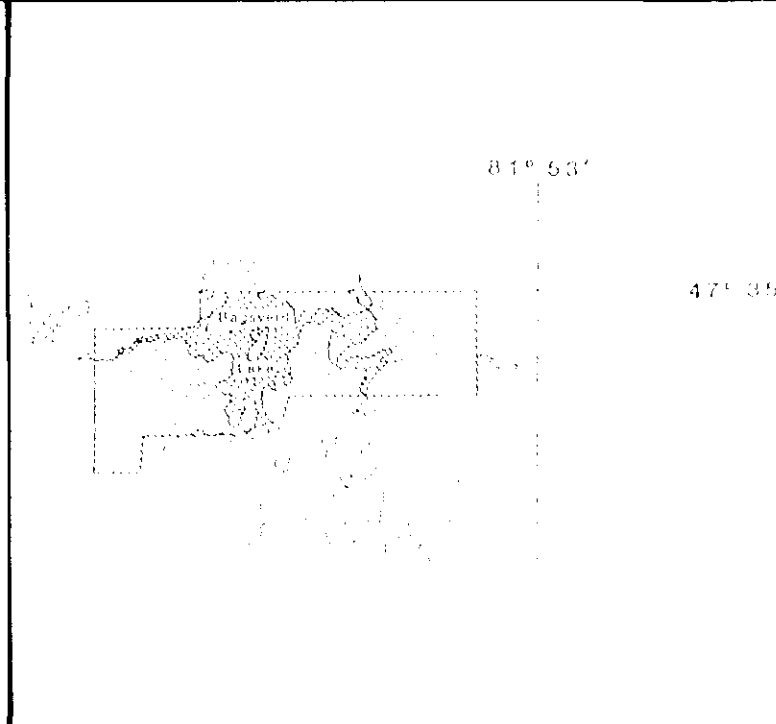
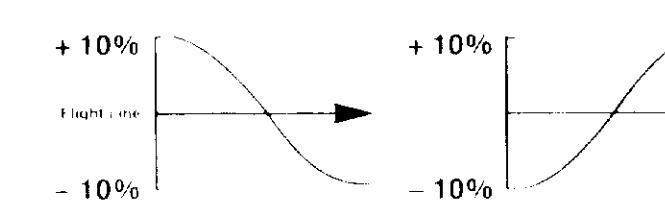
VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 101

LEGEND

Terrain Clearance 100 metres
Line Spacing 100 metres
Property Boundary

TOTAL FIELD STRENGTH (Contours)
50%
10%
2%

QUADRA TURE (Profiles Along Flight Lines)
Normal Slope Reverse Slope



SEAWAY BASE METALS LIMITED

AIRBORNE VLF-EM SURVEY
CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRA TURE

CHESTER TWP., ONTARIO

NTS. NO. 41P/12

DRAWING NO. A 783-3

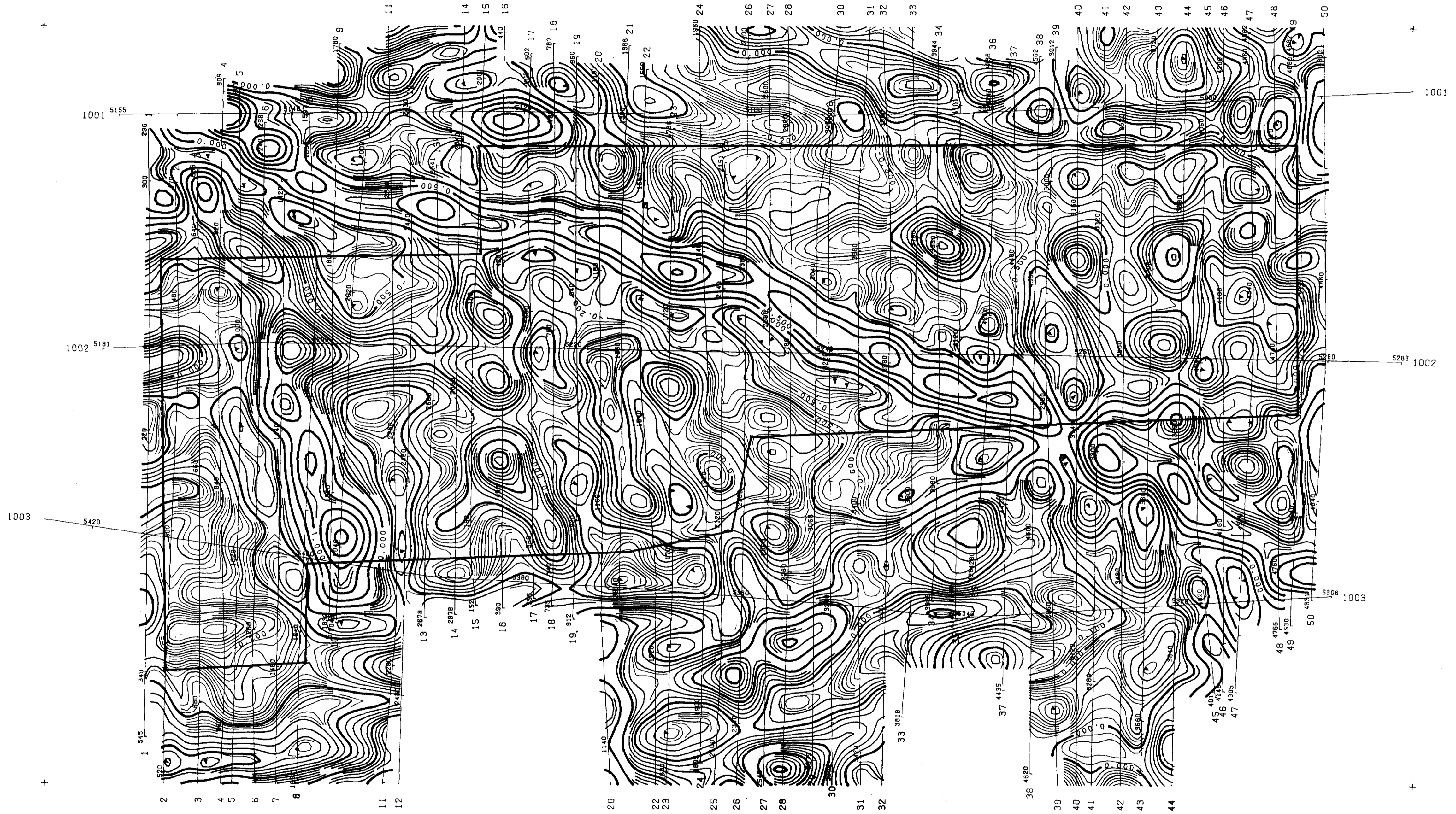
SCALE 1:10,000

DATE July 1988

TERRAQUEST LTD.

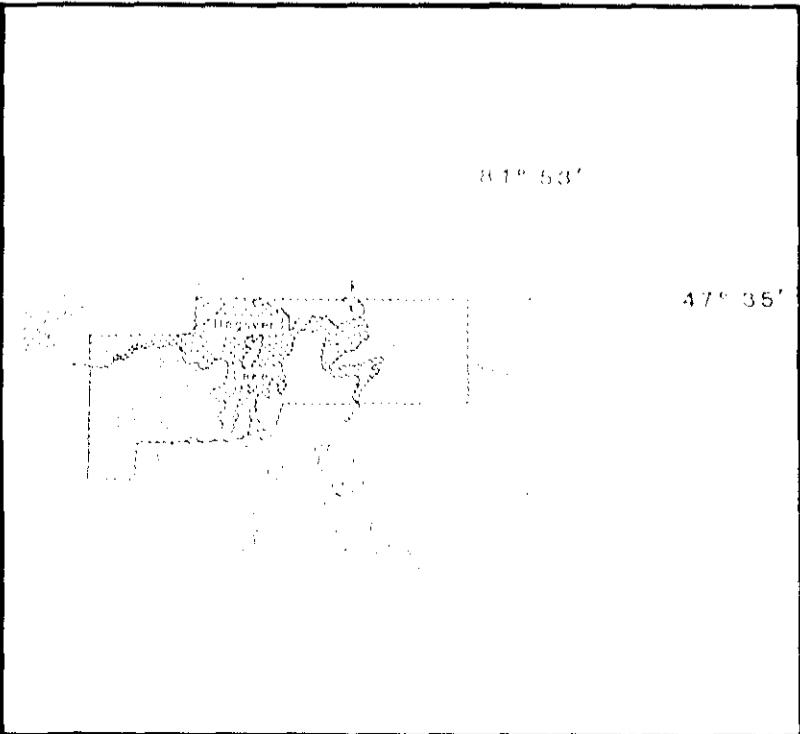
TORONTO, CANADA





LEGEND

- Terrain Clearance 100 metres
- Line Spacing 100 metres
- Property Boundary
- VERTICAL MAGNETIC GRADIENT**
- 2.500 gammas/metre
- 0.500 gammas/metre
- 0.100 gammas/metre
- 0.025 gammas/metre



SEAWAY BASE METALS LIMITED

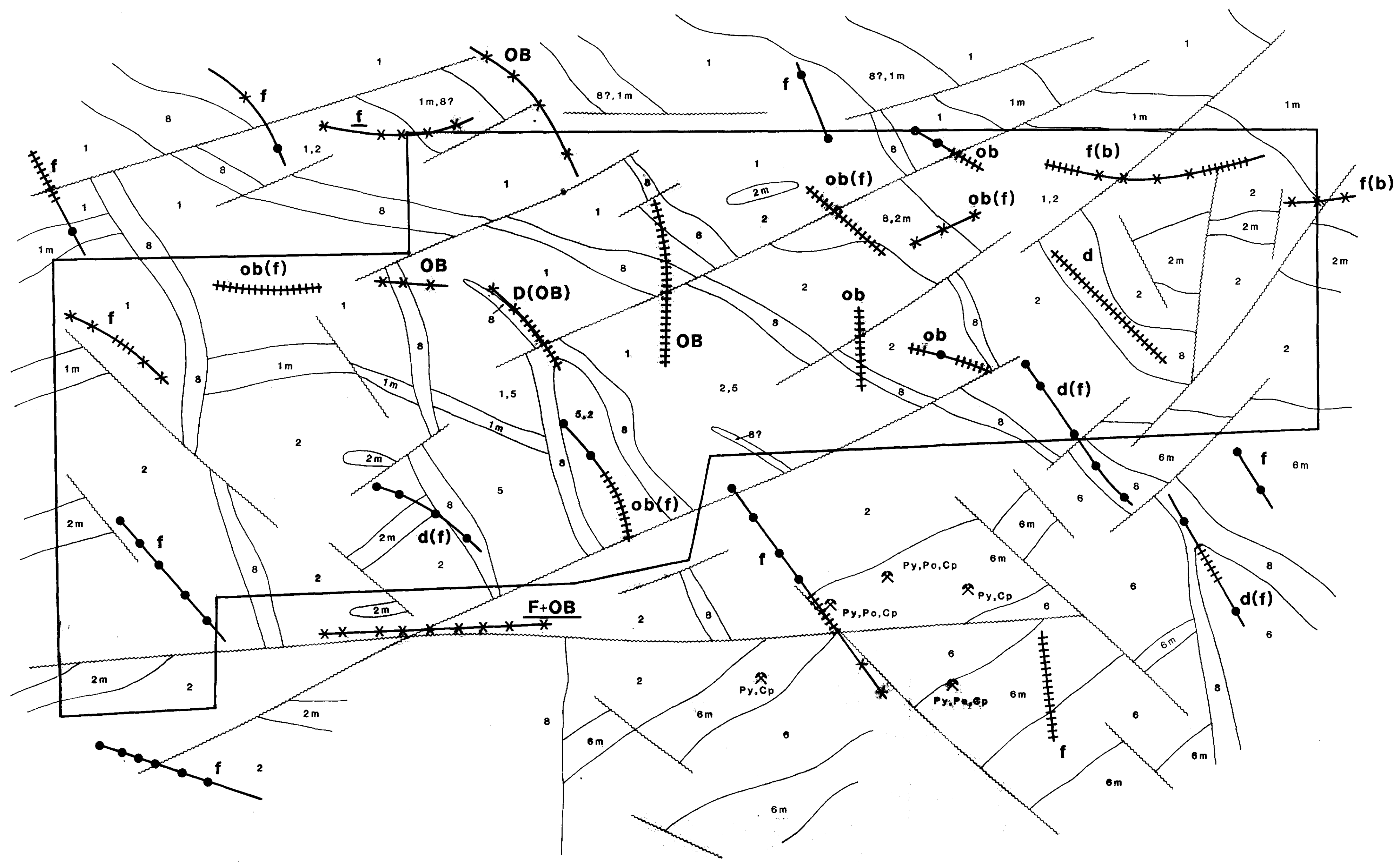
AIRBORNE MAGNETIC SURVEY
 VERTICAL MAGNETIC GRADIENT
 Calculated From Total Field

CHESTER TWP., ONTARIO

N.T.S. NO. 41P/12 DRAWING NO. A-783-2
 SCALE 1:10,000 DATE July 1988

TERRAQUEST LTD.
 TORONTO, CANADA





VLF Transmitter
 NAA Cutler, 24.0 kHz
 Azimuth 101

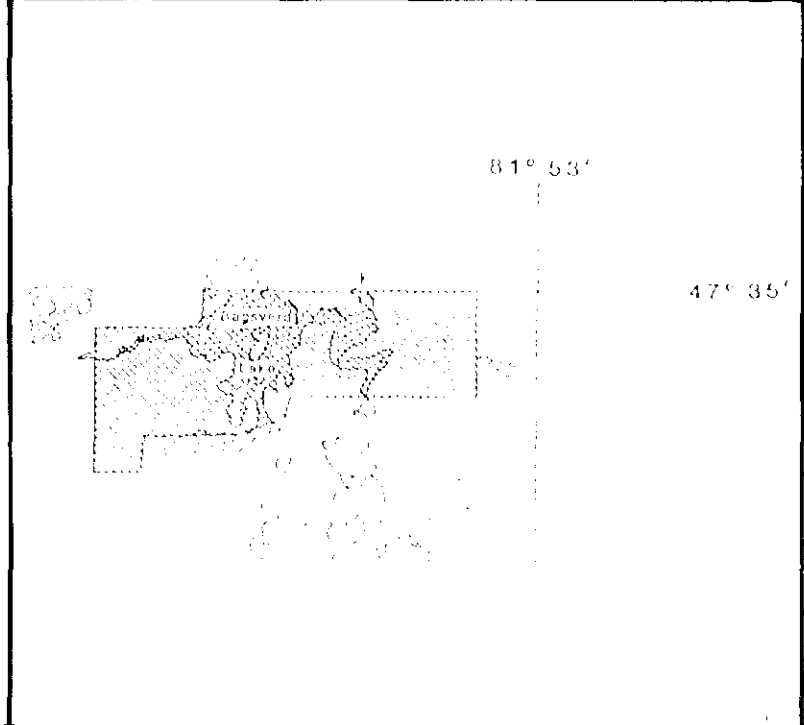


LITHOLOGY

- 8 Diabase Dyke
- 6m Magnetic Unit Within 6
- 6 Felsic Intrusives
- 5 Migmatitic Rocks
- 2m Magnetic Unit Within 2
- 2 Intermediate Pyroclastic Metavolcanics
- 1m Magnetic Unit Within 1
- 1 Mafic Metavolcanics

LEGEND

- Terrain Clearance 100 metres
- Line Spacing 100 metres
- Property Boundary
- INTERPRETATION**
- Contact
- Fault
- VLF-EM Conductor Axes**
- Normal Quadrature
- Reverse Quadrature
- Total Field Only
- See text for classification of VLF-EM conductor axes



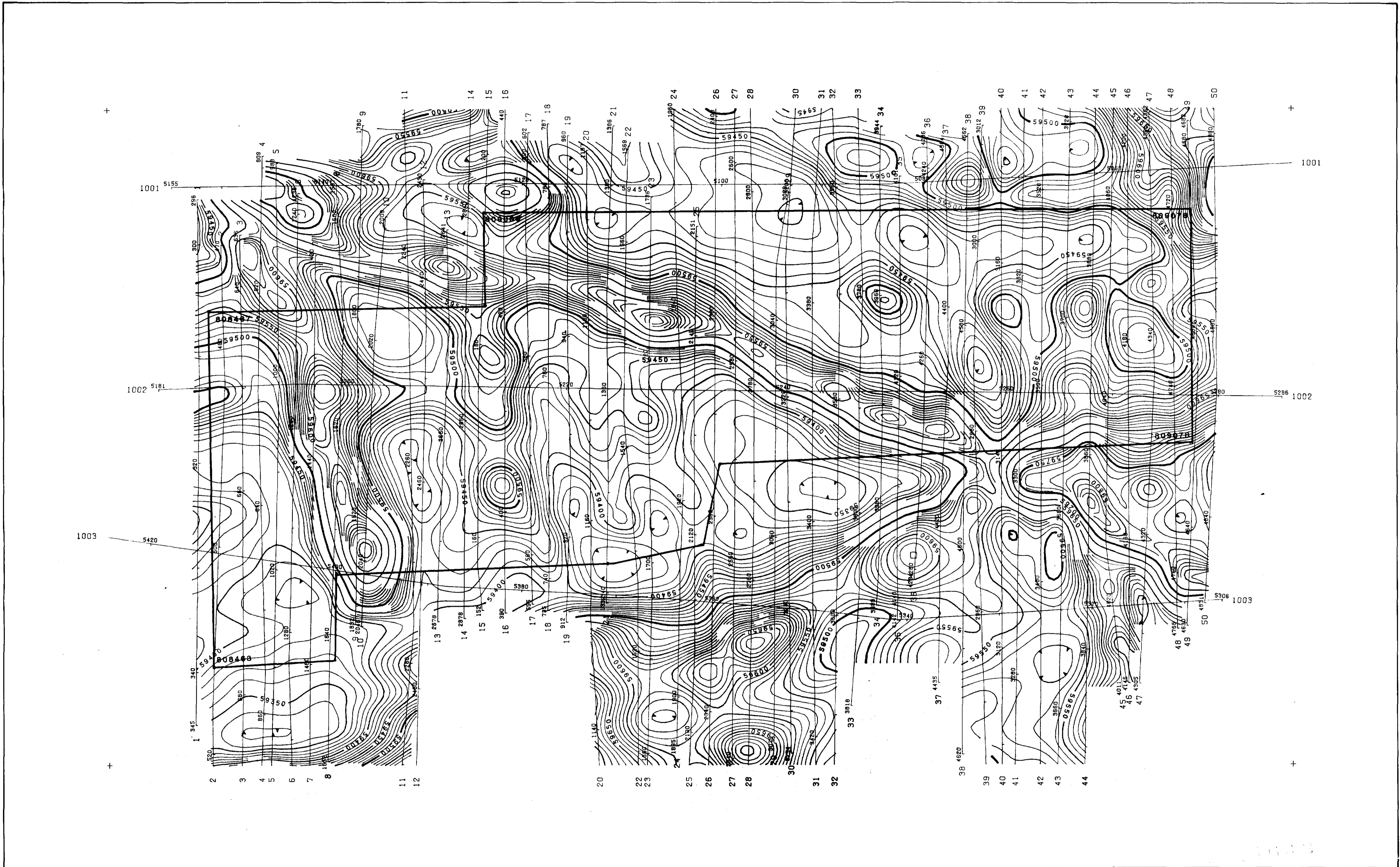
SEAWAY BASE METALS LIMITED

INTERPRETATION

CHESTER TWP., ONTARIO

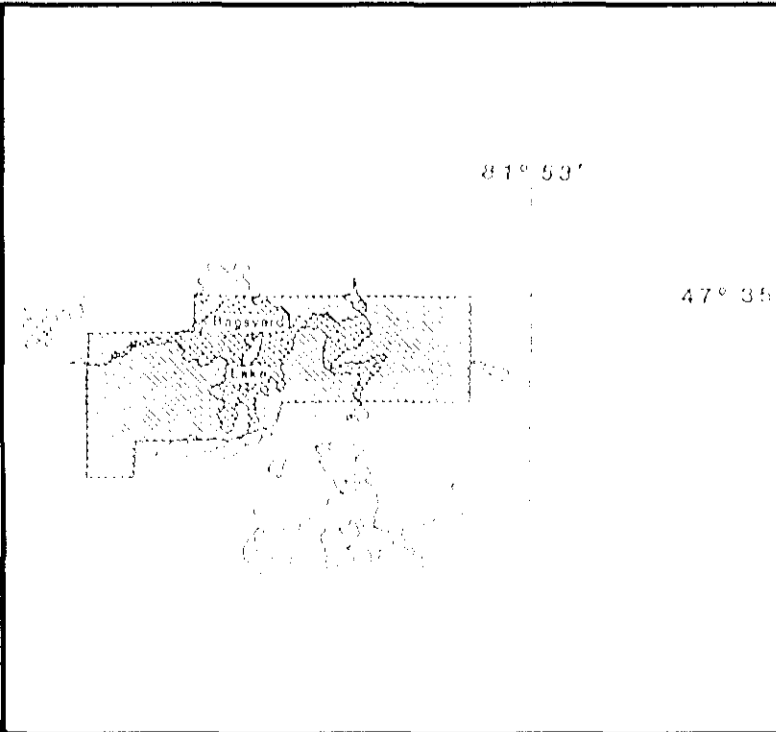
N.T.S. NO.	41P/12	DRAWING NO.	A-783-4
SCALE	1:10,000	DATE	July 1988

TERRAQUEST LTD. TORONTO, CANADA



LEGEND

- Terrain Clearance 100 metres
- Line Spacing 100 metres
- Property Boundary
- TOTAL MAGNETIC FIELD**
- 1000 gammas
- 250 gammas
- 50 gammas
- 10 gammas



SEAWAY BASE METALS LIMITED

**AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD**

CHESTER TWP., ONTARIO

NTS NO	41P/12	DRAWING NO	A-783-1
SCALE	1:10,000	DATE	July 1988

TERRAQUEST LTD. 
TORONTO, CANADA

