

42A06NW0101 2.10211 BOWMAN

010

REPORT ON A MAGNETOMETER SURVEY

OF R. ALLERSTON'S PROPERTY

LOCATED IN EASTERN BOWMAN TOWNSHIP,

LARDER LAKE MINING DIVISION, ONTARIO

BY

R. BRUCE DURHAM, FGAC

CONSULTING GEOLOGIST

**RECEIVED**

JUL 10 1987

MINING LANDS SECTION

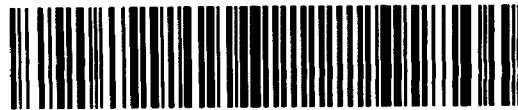
DURHAM GEOLOGICAL SERVICES INC.

BOX 734

TIMMINS, ONTARIO

P4N 7G2

JULY 11, 1987



42A08NW0101 2.10211 BOWMAN

010C

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FIGURE 1 - Property Location .....1 : 7,603,200

FIGURE 2 - Claim Location.....1 :  $\frac{1}{2}$  mile

FIGURE 3 - Contoured Magnetic Survey Data....1 : 20,000

### PROPERTY, LOCATION AND ACCESS

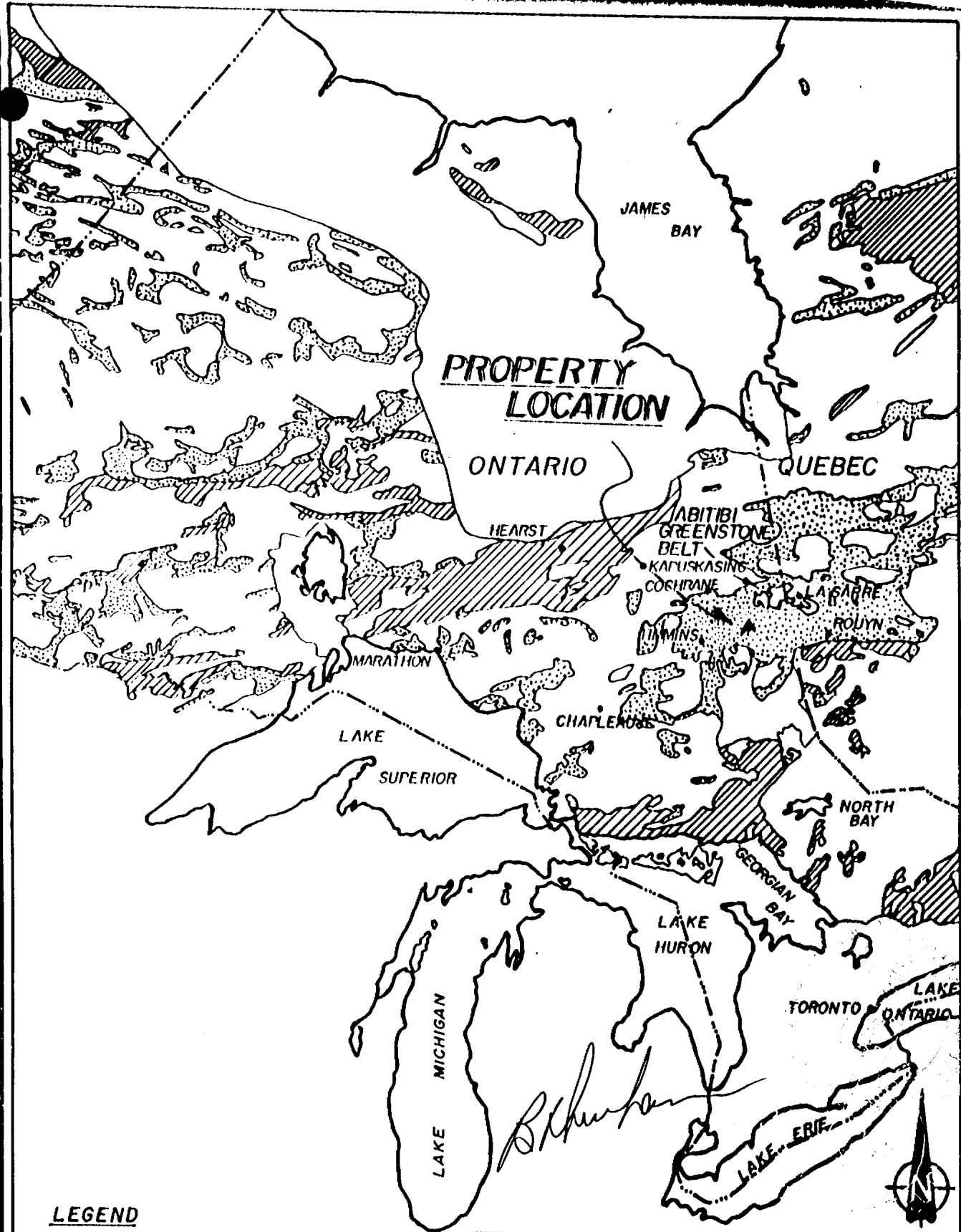
Mr. R. Allerston, prospector of Timmins, Ontario, holds a group of eight unpatented contiguous mineral claims situated in the south half of concession III of Bowman Township. The claims cover lot 1 and lot 2, as shown in figure 2.

The property is located in east-central Bowman Township, 6.5 kilometers south of the town of Matheson. Highway 11, which cuts through the northeast part of this property, provides excellent access. Municipal access roads parallel the west and south boundaries of the property.




### PREVIOUS WORK

The only previous work reported on the claims by Leahy (1965) is as follows:

"The outcrops in the south half of lot 2, concession III, also contain narrow quartz veins and signs of previous prospecting. Fourteen samples of vein material and wallrock taken from this area by the author's senior assistant showed only low values in gold when assayed, the highest assay being 0.04 ounces of gold per ton."



**LEGEND**

-  Archean greenstone and associated Sediments
-  Granitic Terrain
-  Archean Sediments, some volcanics and intrusions

Revisions	DURHAM GEOLOGICAL SERVICES INC.	
	ALLERSTON PROPERTY	
	<b>PROPERTY LOCATION</b>	
	Date July 87	Drawn K.B.
	N.T.S.	Approved B.D.
		Scale 1:7,603,200 Figure 1

Pits indicated on Leahy's geological map are proof that some work has been carried out on the property in the past.

### GEOLOGY

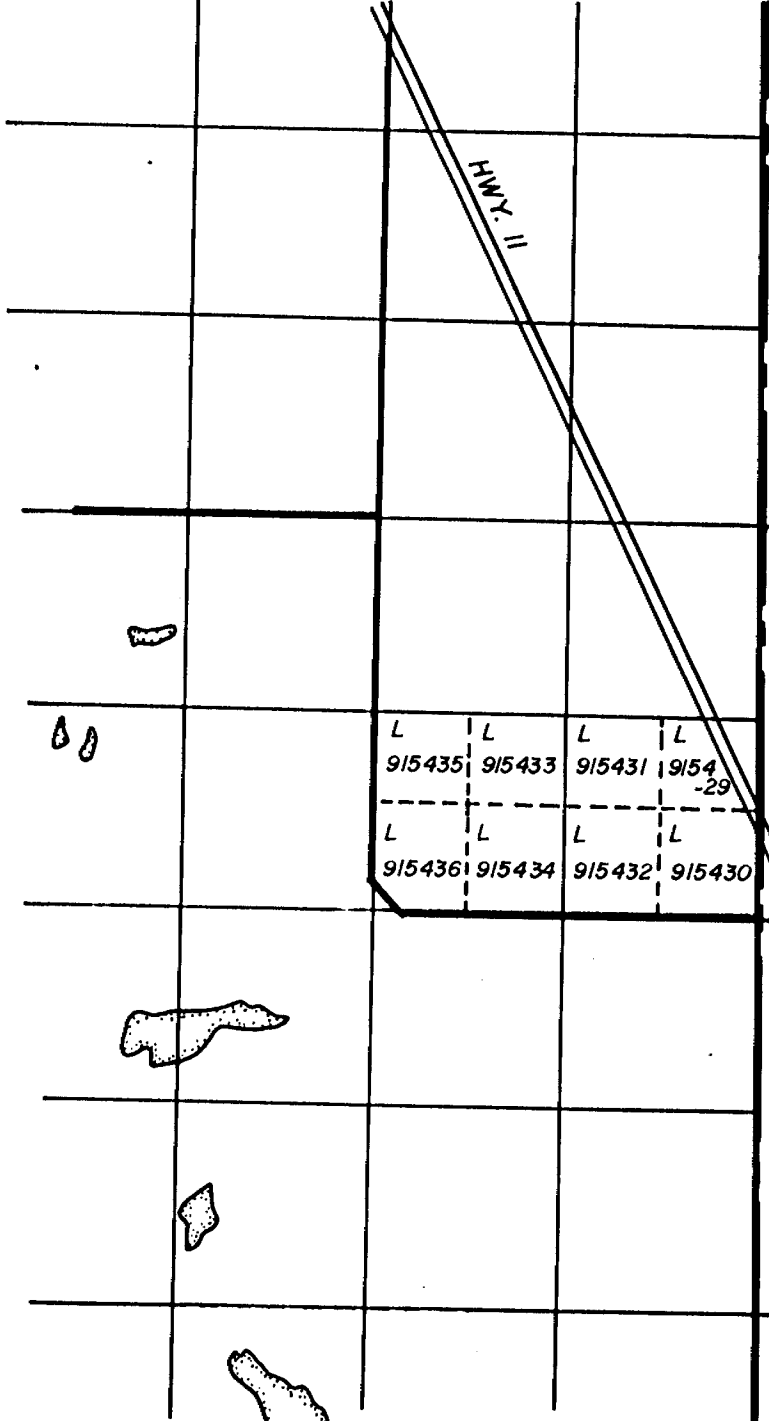
The property lies approximately 10 kilometers south of the Destor Porcupine Fault, a major east trending structure near which many of the gold deposits of the Porcupine Camp are associated. Because of poor outcrop exposure and lack of intensive exploration, the geology of the area is poorly understood. Most of the rocks on the property appear to be of mafic composition and consist of massive to pillowed flows and their tuffaceous equivalents. Late stage diabase dikes also outcrop on the property.

As indicated in the previous work section, prospecting has shown the presence of low gold values associated with narrow quartz veins cutting mafic volcanic rocks. Leahy (1965) indicates that samples collected by his party for the Ontario Department of Mines returned assays as high as 0.04 ounces of gold from grab samples of the veins and wallrock.

### GEOPHYSICAL SURVEY

A magnetic survey was carried out over the eight claim

LOT 4      LOT 3      LOT 2      LOT 1



CONC. IV

CONC. III

CONC. II

BOWMAN TWP.

HISLOP TWP.



Revisions	DURHAM GEOLOGICAL SERVICES INC.		
	ALLERSTON PROPERTY		
	<u>CLAIM MAP</u>		
	Date: JULY, 14/87	Drawn: K.B.	Scale: 1"=1/2 mi.
	N.T.S.	Approved: B.D.	Figure: 2

property by A. Maskevich between the dates of May 4 and May 11, 1987. A total of 14.3 kilometers of linecutting was completed and 1126 magnetometer readings were taken.

The survey was completed by Mr. Maskevich on behalf of Mr. R. Allerston, using a scintrex MF-1 flux gate magnetometer, specifications of which are included in the appendix. The data was gathered, corrected for drift, plotted, and contoured by Mr. Maskevich and the plan maps (fig. 3) were presented to the author on July 2, 1987.

The base station to which all data was corrected was located at BL-0 and 17+20. This location was assigned a value of 3420 grammas. Diurnal drift was assumed to be uniform and traverses were closed at intervals of less than one hour.

The contoured magnetic data, as presented to the author, is shown in figure 3.

The most prominent feature outlined by the survey is a moderately well defined magnetic trend that crosses the entire property in an east-northeasterly direction. This zone of

weak to moderate positive magnetic relief is typically 100 meters or more in width. Fifty to 100 meter left-hand displacements occur between lines 4 and 5E and lines 11E and 12 E. The features of this magnetic trend are typical of massive magnetic basalt flows.

A second, crudely parallel, narrower zone of similar magnetic intensity occurs near the south boundary of the property.

The highest magnetic relief on the property was found on line 15E just south of BL-0. Here a poorly defined strong magnetic feature trends to the east. Its cause is unknown.

The survey fails to define any of the north trending diabase dikes known to occur in the western part of the property.

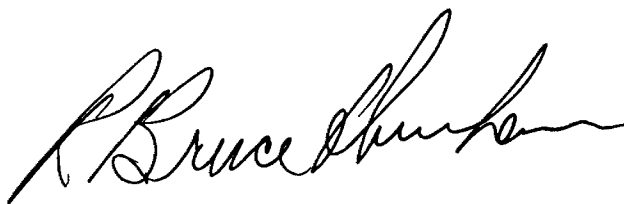
#### CONCLUSIONS AND RECOMMENDATIONS

In light of the fact that gold mineralization is known to occur on the property and that this gold mineralization is associated with pyrite mineralization and carbonate alteration, further exploration of the property should include detailed



geological mapping, mechanical stripping, and an induced polarization survey. Zones exhibiting favorable alteration, and IP anomalies defined by this work should then be drill tested.

Respectfully Submitted,



A handwritten signature in cursive script, reading "R. Bruce Durham".

R. Bruce Durham, Bsc. FGAC

Consulting Geologist



SELECTED REFERENCES

Laird, E.J.

1931: German-Currie area, District of Cochrane, Ontario  
Department of Mines, 1931, Vol. XL, pt. 3, pp.  
1-22.

Leahy, E.J.

1965: Geology of Currie and Bowman Townships, Ontario  
Department of Mines Geological Report No. 40.

OGS

1984: Airborne Electromagnetic and Total Intensity  
Magnetic Survey, Matheson-Black River Area,  
Bowman Township, District of Cochrane; by Questor  
Surveys Limited for the Ontario Geological Survey,  
Map 80594 Geophysical/Geochemical Series, Scale  
1:20,000, Survey and Compilation March to July,  
1983.

CERTIFICATION

I, R. Bruce Durham of 1176 Delnite Road, Timmins, Ontario, certify as follows concerning my July 11, 1987 report on R. Allerston's Property, Eastern Bowman Township, located in Ontario.

1. I am a graduate of the University of Western Ontario, having obtained a Bachelor of Science Degree in Geology in 1976.
2. I have been practising my profession, primarily in Canada, since 1975.
3. I have no direct or indirect interest in the properties, of Mr. R. Allerston, nor do I expect to receive any.
4. I am a fellow of the Geological Association of Canada.

Dated at Timmins  
this 11th day of July, 1987



R. Bruce Durham, Bsc. FGAC  
Consulting Geologist

**SPECIFICATIONS OF  
FLUXGATE MAGNETOMETER  
MODEL MF-1**

<b>Ranges:</b>	Plus or minus — 1,000 gammas f. sc. 3,000     " 10,000   " 30,000   " 100,000  "
	Sensitivity 20 gammas/div. 50     " 200   " 500   " 2,000  "
<b>Meter:</b>	Taut-band suspension 1000 gammas scale 1 7/8" long — 50 div. 3000 gammas scale 1 11/16" long — 60 div.
<b>Accuracy:</b>	1000 to 10,000 gamma ranges ± 0.5% of full scale 30,000 and 100,000 gamma ranges ± 1% of full scale
<b>Operating Temperature:</b>	—40°C to +40°C —40°F to +100°F
<b>Temperature Stability:</b>	Less than 2 gammas per °C (1 gamma /°F)
<b>Noise Level:</b>	Total 1 gamma P-P
<b>Long Term Stability:</b>	± 1 gamma for 24 hours at constant temperature
<b>Bucking Adjustments: (Latitude)</b>	10,000 to 75,000 gammas by 9 steps of approximately 8,000 gammas and fine control by 10 turn potentiometer. Convertible for southern hemisphere or ± 30,000 gammas equatorial.
<b>Recording Output:</b>	1.7 ma per oersted for 1000 to 100,000 gamma ranges with maximum termination of 15,000 ohms.
<b>Response:</b>	DC to 5 cps (3db down)
<b>Connector:</b>	Amphenol 91-MC3F1
<b>Batteries:</b>	12 x 1.5V-flashlight batteries "C" cell type) (AC Power supply available)
<b>Consumption:</b>	50 milliamperes
<b>Dimensions:</b>	Instrument — 6 1/2" x 3 1/2" x 12 1/2" 165 x 90 x 320 mm Battery pack — 4" x 2" x 7" 100 x 50 x 180 mm Shipping Container — 10" dia x 16" 254 mm dia. x 410 mm
<b>Weights:</b>	Instrument — 5 lbs. 12 oz.     2.6 kg. Battery Pack — 2 lbs. 4 oz.    1.0 kg. Shipping — 13 lbs.           6.0 kg.



**SCINTREX LIMITED**

79 Martin Ross Avenue, Downsview, Ontario, Canada

208/87

Land Management

Mining



42A08NW0101 2.10211 BOWMAN

900

Type of Survey: **MAGNETOMETER**

Claim Holder(s): **R.E. Allerston** Prospector's Licence No.: **M-13613**

Address: **543 Pine Street North, Timmins, Ont. P4N 6L9**

Survey Company: **A. Maskevich RR 2 Matheson Ont.** Date of Survey (From & to): **15 4 87** to **5 5 87** Total Miles of line Cut: **9.5**

Name and Address of Author (of Geo-Technical report): **Adam Maskevitch, RR2 Matheson 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	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Special Provisions	Geophysical	Days per Claim
Compensation side and end of grid(s) here	- Electromagnetic	<del>7 5/8</del> note attached
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
B	915429	40			
	915430	40			
	915431	40			
	915432	40			
	915433	40			
	915434	40			
	915435	40			
	915436	40			

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JUN - 4 1987

MINING LANDS SECTION

Special Provisions	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Particulars on Claims

Total Expenditures	Total Days Credits
3	40

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

For Office Use Only

Total Days Cr. Date Recorded: **320 1987.08.28**

Mining Recorder: **Mr. Weerne**

Date Approved as Recorded: **MAY 6 1987**

Recorded Holder or Agent (Signature): **R. Allerston** Date: **May 3 1987**

Application 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: **Ralph E. Allerston**

Date Certified: **May 3rd 1987**

Signature: **R. Allerston**



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) Magnetometer
Township or Area Bowman Twp. Larder Lake Div.,
Claim Holder(s) Ralph E. Allerston
543 Pine St. N. Timmins, P4N 6L9
Survey Company Adam Maskevich
Author of Report
Address of Author
Covering Dates of Survey May 4, 5, 6, 7 and 11th 1987
(linecutting to office)
Total Miles of Line Cut 9.5 Miles

MINING CLAIMS TRAVERSED
List numerically
L- 915429
L-915430
L-915431
L-915432
L-915433
L-915434
L-915435
L-915436

SPECIAL PROVISIONS CREDITS REQUESTED
Geophysical
-Electromagnetic
-Magnetometer 40
-Radiometric
-Other
Geological
Geochemical
DAYS per claim

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

DATE: July 11st 1987 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2-4986

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

TOTAL CLAIMS 8

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 612 Number of Readings 1126
Station interval 12.5 meters, 25 M. Line spacing 100 M
Profile scale Nil
Contour interval 500 Gammas

MAGNETIC

Instrument MF 1 (as data shown)
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours) 45 Min.
Base Station location and value Stn 0400 1720E = 3420 +/- 15

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) \_\_\_\_\_  
Instrument(s) \_\_\_\_\_  
(specify for each type of survey)  
Accuracy \_\_\_\_\_  
(specify for each type of survey)  
Aircraft used \_\_\_\_\_  
Sensor altitude \_\_\_\_\_  
Navigation and flight path recovery method \_\_\_\_\_  
\_\_\_\_\_  
Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_  
Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_



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 \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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 \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

Areas Shaded in blue for "Account Customers" Les espaces ombrés bleus sont à l'usage des clients titulaires d'un compte

Account No. N° de compte Telephone No. N° de téléphone  
70219 1040

Sender's name and address Nom et adresse de l'expéditeur



July 15th overnight  
Called Post Office from Summers  
July 16 535275959

COURIER MESSAGERIES



PP 535 275 959 CA

Bill of Lading

Connaissance

TO A

Telephone No. N° de téléphone

- This Bill of Lading is subject to audit
- Do not mail dangerous goods
- If sender selects "signature not required" option, insurance against loss and damage is waived.

- Ce connaissance est sujet à vérification
- Ne pas poster de matières dangereuses
- Si l'expéditeur opte pour "signature non requise" il renonce au droit de recevoir un remboursement en cas de perte et de dommage.

Sender's signature

Signature de l'expéditeur

*[Handwritten Signature]*

Carr Twp

THE TOWNSHIP OF

# BOWMAN

DISTRICT OF COCHRANE  
LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

## LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE LEASES (S) or (C.S.)
- LOCATED LAND (L)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS (—)
- IMPROVED ROADS (—)
- KINGS HIGHWAYS (—)
- RAILWAYS (—)
- POWER LINES (—)
- MARSH OR MUSKEG (M)
- MINES (M)
- GEODETIC STATION (Δ)

## NOTES

400' SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS.

L O 8672 issued for flooding rights on Watabeag River

GRAVEL AND SAND

(Q) QUARRY PERMIT

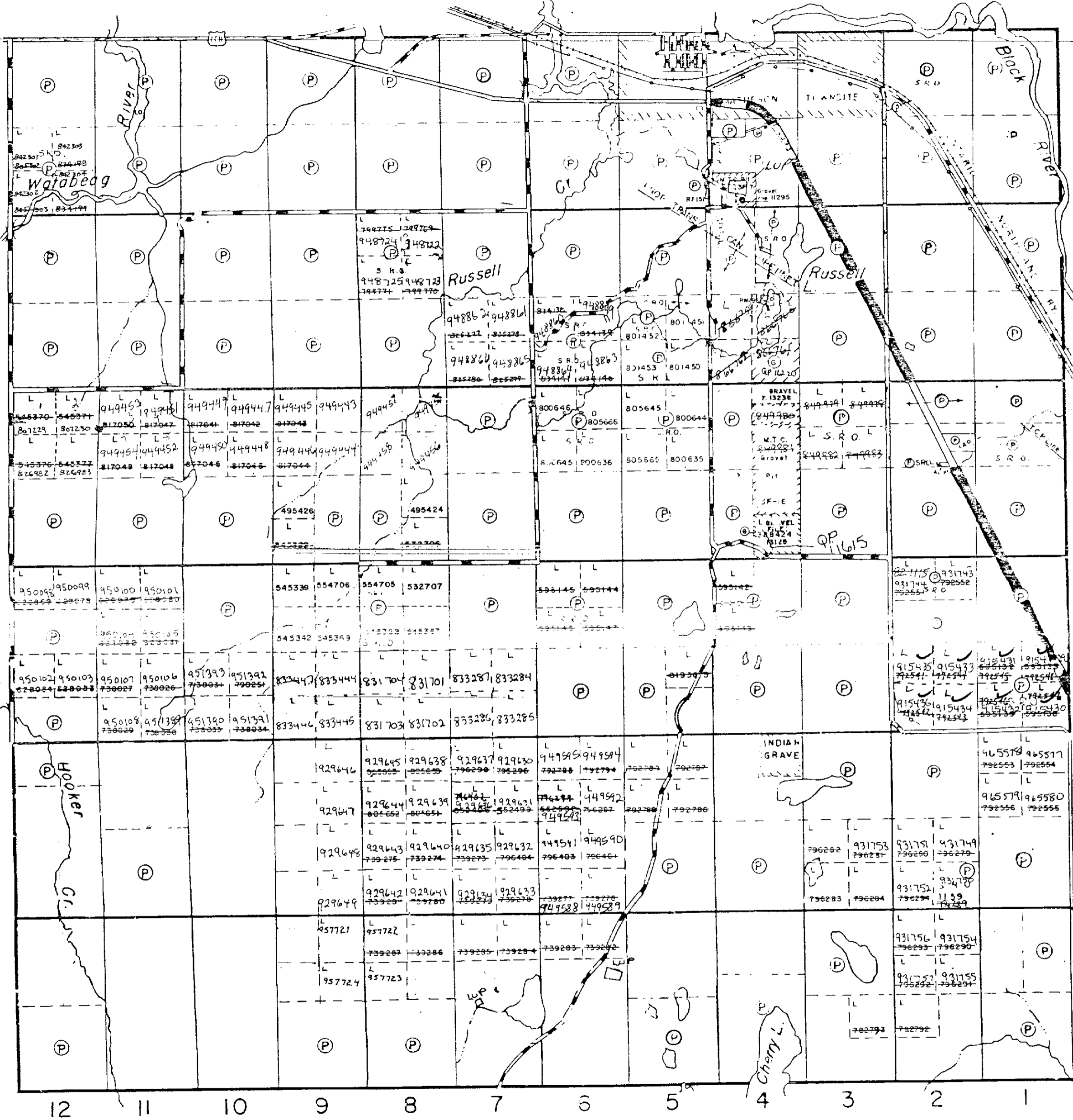
DATE OF ISSUE  
APR 23 1987  
LARDER LAKE  
MINING RECORDS OFFICE

PLAN NO.- M-33 F.22

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH



VI

V

IV

III

II

I

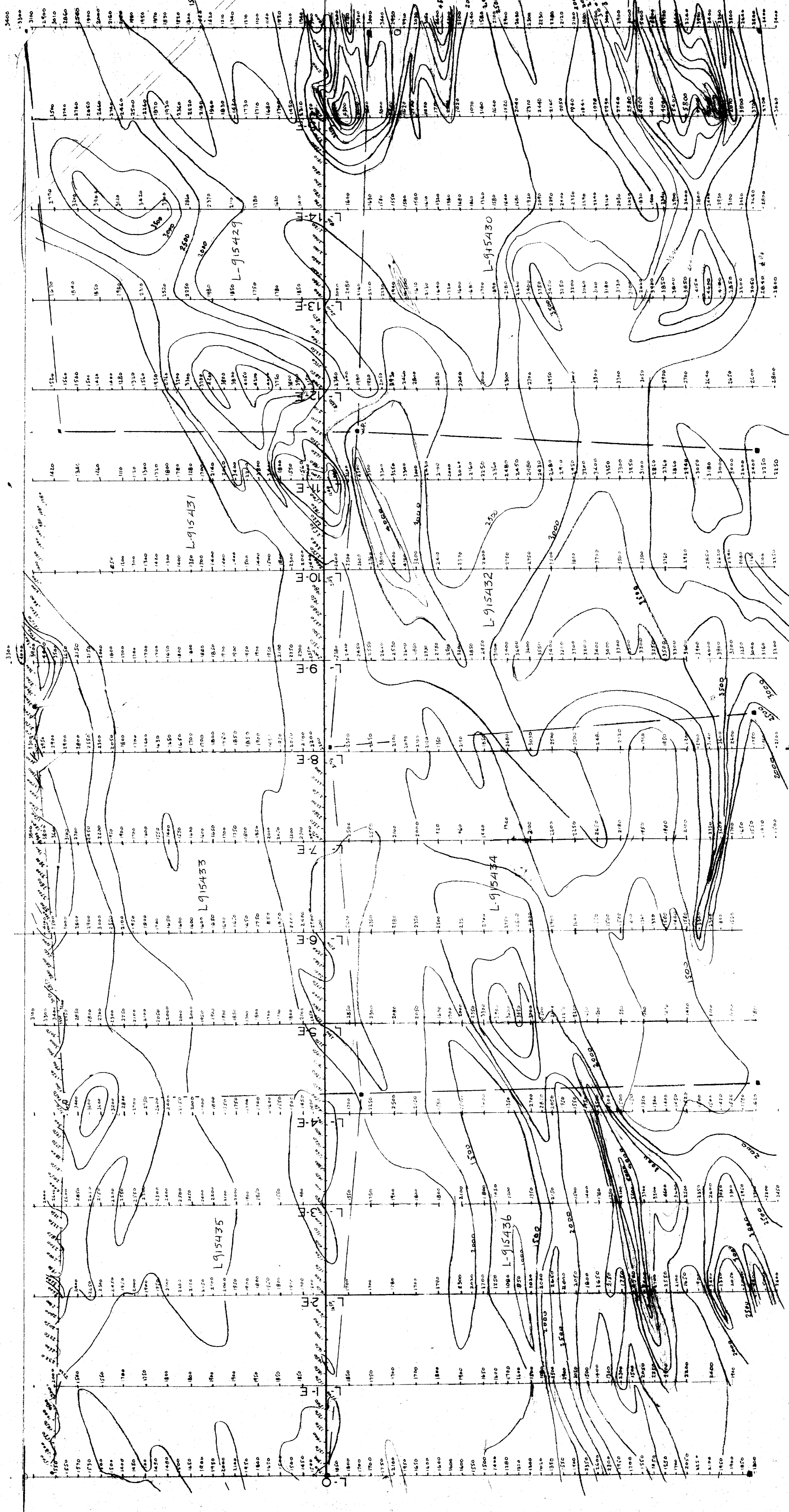
Currie Twp.

Hislop Twp.

McCann Twp.



200



CON-111

CON-11

LOT-1

LOT-2

*Base 2.102-11*

**R.E. ALLERSTON**  
 BOWMAN TOWNSHIP  
**MAGNETOMETER SURVEY**

DATE: MAY 11, 1955  
 SCALE: 1" = 20.00'

