



42A07NE0124 2.10782 CURRIE

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Currie . GRID CU-1
EGAN TOWNSHIP, ONTARIO
LARDER LAKE MINING DIVISION

NTS 42A7

REPORT ON
MAGNETIC SURVEY

A. JAMES WALKER, P. ENG.

AUGUST 25, 1987

RECEIVED

APR 19 1988

MINING LANDS SECTION



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ENCLOSURES

Grid CU-1	Magnetic Survey - Contours	1:5000
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INTRODUCTION

Walker Exploration Ltd. carried out a magnetometer survey over a 4 claim group located in the east central part of CURRIE Township, about 10 kilometers southwest of Matheson.

Linecutting and chaining was done by another contractor, John Hussey of Timmins in June 1987. The magnetic survey was carried out July 19, 1987.

The survey was carried out with an EDA PPM 300 total field proton magnetometer, with an EDA PPM 400 base station magnetometer for diurnal drift control.

SUMMARY

The magnetic survey shows an east-west structure, dipping to the south. Some north-south magnetic highs likely represent mafic dykes.

PROPERTY

The 4 claim group is located in the east central part of

Currie Township (Claims L950902-L950905 inclusive). Access was via the Currie-Bowman Township road, south from Highway 101, to the east-west road between Concession III & IV which was passable with a 4-wheel drive truck. A trail hits the easterly claim of the group. (NW $\frac{1}{4}$ of S $\frac{1}{2}$ of Lot 2, Con. III, N $\frac{1}{2}$ of S $\frac{1}{2}$ Lot 3, Con. III and NE $\frac{1}{4}$ of S $\frac{1}{2}$ Lot 4, Con. III).

PREVIOUS WORK

In 1974-1975, Derry Michener & Booth carried out magnetic surveys over the west part of the block. A weak conductor was located on the westerly claim (L950902) using vertical loop em.

In 1975 Asarco Exploration carried out vertical loop em over the easterly 3 claims of this group, which located a weak conductor on Claim L-950903.

In 1981 Asarco carried out overburden drilling to the northwest of the claim group.

Airborne em and magnetics was carried out by Aerodat for Kidd Creek Mines to the east of this claim group.

GEOLOGY (Preliminary Map P856-ODM)

The group is located in an area of east-west trending Precambrian intermediate to mafic metavolcanics.

SURVEY METHOD

The magnetic survey was performed with an EDA PPM 300 proton magnetometer, measuring total field to 0.1 gammas. Diurnal control was made by using an EDA PPM 400 base station magnetomer, located at V1-Mar Motel, Matheson, which was tied into the base station on the Airport Road, Kirkland Lake. Value of new station is 58907.

The field magnetometer and base station magnetometer have solid state memory for storage of values and locations of stations read. The instruments have built-in clocks which are synchronized each day. The units are plugged together each evening and the built-in computer programme in the base station allows for automatic diurnal correction of data collected. This corrected data was stored on the cassette of an HP85 computer in the field, and later transferred to an IBM compatible computer.

Observations were made at 12.5 meter stations on lines with 100 meter spacing. Value are plotted on a plan at a scale of 1:5000. Contours of values are plotted on a separate sheet.

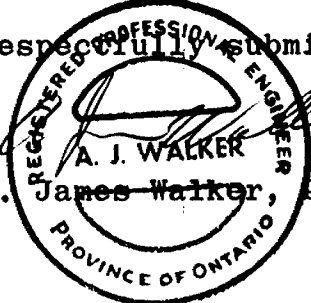
SURVEY RESULTS

The contoured magnetics show a narrow east-west trending high across the grid, intercepted by north-south structures on Line 5E and 15E.

CONCLUSIONS

The ground magnetic survey has shown an east-west structure, and north-south structures. The area is drift covered, and diamond drilling would be required to assess the mineral potential of this group.

AJW:sb

Respectfully submitted,

A. J. WALKER
A. James Walker, P. Eng.
PROVINCE OF ONTARIO

SURVEY DATA

Grid CU-1

CURRIE Township, Larder Lake Mining Division, Ontario.

Geophysical Contractor - Walker Exploration Ltd.

Covering Dates - Linecutting - June 1987
 Magnetic Survey - July 19, 1987
 Drafting - August 4-7, 1987
 Report - September 15, 1987

Line Coverage - Linecutting - 10.0 km.
 Magnetic Survey - 10.0 km.
 Readings - 818
 Line Spacing - 100 meters
 Station Spacing - 12.5 meters

Crew

Linecutting - John Hussey, Timmins, Ontario
Magnetic Survey - Phil Miles, London, Ontario
 David Miles, London, Ontario
Drafting - R.T. Marcroft, Mississauga, Ontario
Field Report - A.J. Walker, Oakville, Ontario

Instruments

- Magnetic Survey
- EDA PPM 300 Proton, Total field
Direct Reading, 0.1 Gamma
Solid State Memory.
 - EDA PPM 400 Base Station Recorder.



Land Management

Mining Act

Type of Survey(s): **Ground Geophysical (Magnetometer)** Township or Area: **2.11060** Township

Claim Holder(s): **LAC Minerals Ltd.,** Prospector's Licence No.: **T-664**

Address: **91 Duncan Ave. S., Kirkland Lake, Ontario P2N 1Y2**

Survey Company: **Walker Exploration Ltd.,** Date of Survey (From & to): **19 06 87** Total Miles of line Cut: **10 KM**

Name and Address of Author (of Geo-Technical report): **A.J. Walker, 406 Canterbury, OAKVILLE, Ontario**

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	
	- 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	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	950902				
	950903				
	950904				
	950905				

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
APR 28 1988
RECEIVED

LARDER LAKE
MINING DIV.
RECEIVED
MAR 11 1988
AM 4:25 PM
7 8 9 10 11 12 1 2 3 4 5 6

RECEIVED
MAR 25 1988
MINING LANDS SECTION

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.

Total number of mining claims covered by this report of work. **4**

Date: **Mar. 10/88** Recorded Holder or Agent (Signature): *John Koval*

For Office Use Only

Total Days Cr. Recorded: **160** Date Recorded: **MARCH 11, 1988** Mining Records Recorded: *M.A. Weirmain*

Date Approved as Recorded: **22 April 88** 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: **John Koval 91 Duncan Ave., S., Kirkland Lake, Ontario P2N 1Y2**

Date Certified: **March 10/88** Certified by (Signature): *John Koval*

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 409 Number of Readings 818
Station interval 12.5 meters Line spacing 100 meters
Profile scale 200 nT/cm
Contour interval 25 nT

MAGNETIC

Instrument EDA PPM 300 Proton, Total Field
Accuracy - Scale constant 0.1 nT
Diurnal correction method continuous 15 seconds, EDA PPM 400
Base Station check-in interval (hours)
Base Station location and value behind Vi-Mar Motel, Matheson, Ont.
58907 nT

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

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

Taylor Twp.

THE TOWNSHIP OF

CURRIE

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

VI

V

IV

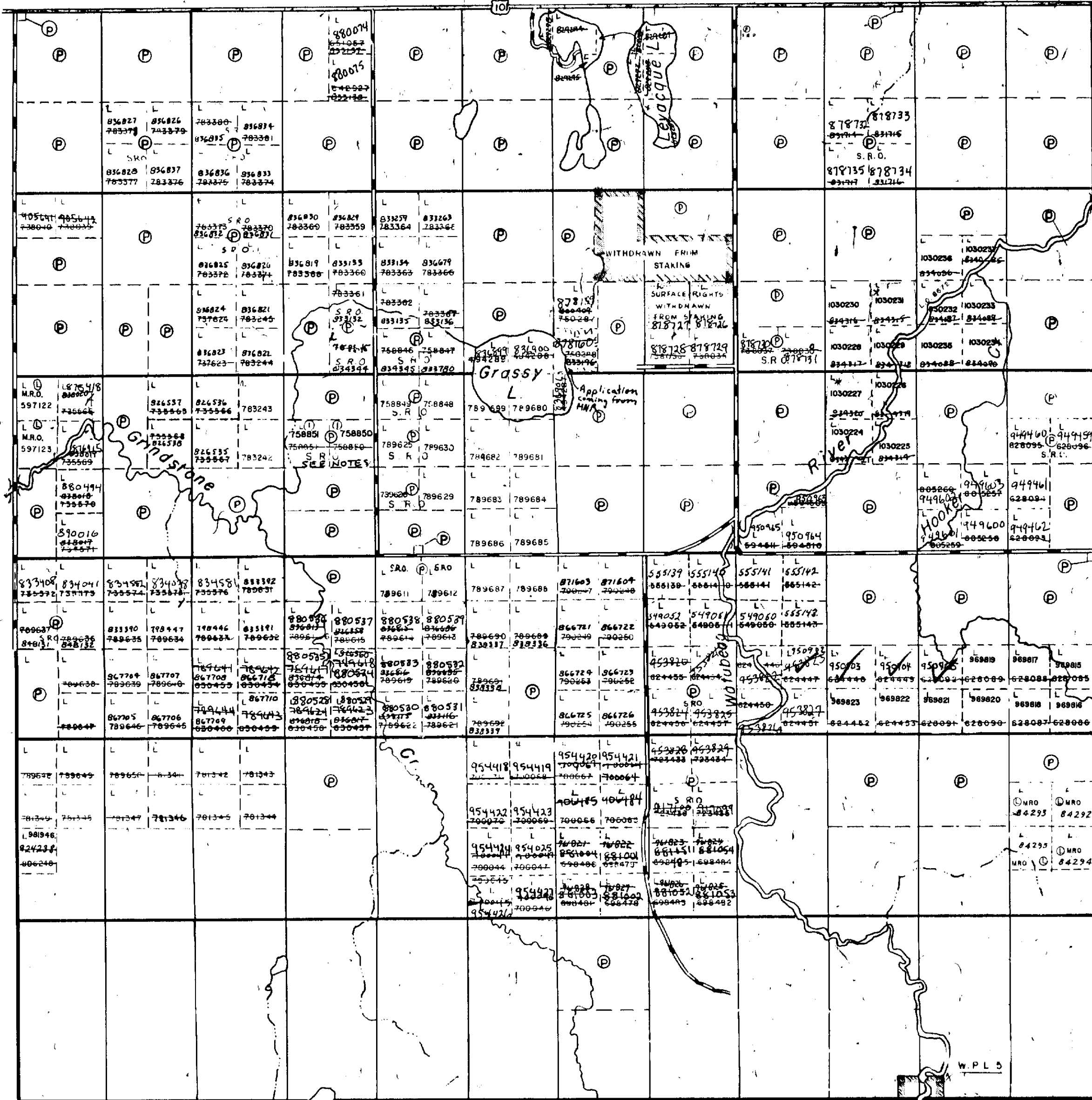
III

II

I

Bowman Twp.

Bond Twp.



LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (S) or CS
- LEASES (L)
- LOCATED LAND (Lpc)
- 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

NOTES

L.O. 8672 Flooding rights to 820 a.s.l. contour.
 * Filed Only application to record re-stakings of these 2 claims under consideration

AREA MARKED THUS
 Files 11593
 21312
 WITHDRAWN FROM STAKING
 UNDER SEC. 39 (D) OF MINING ACT

400' Surface rights reservation around all lakes and rivers.

Withdrawn from staking under Section
 Mining Act (R.S.O. 1970)
 File Date Disposition

PLAN NO.- M.341 # 22

ONTARIO
 MINISTRY OF NATURAL RESOURCES
 SURVEY AND MAPPING BRANCH

Egan Twp.

J. V. Kolben

NOTICE OF FORESTRY ACTIVITY

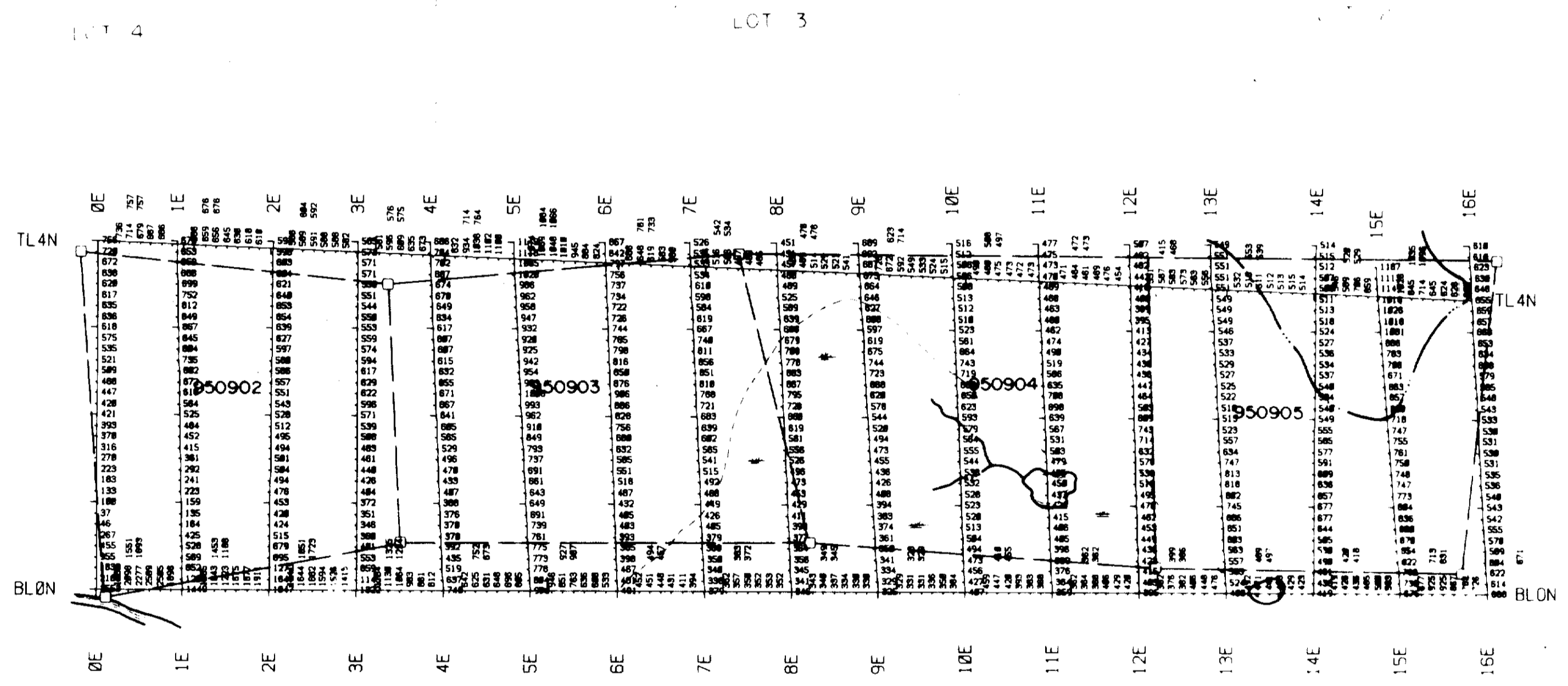
THIS TOWNSHIP / AREA FALLS WITHIN THE
 ONTARIO PAPER FOREST MANAGEMENT AGREEMENT

AND
 THE
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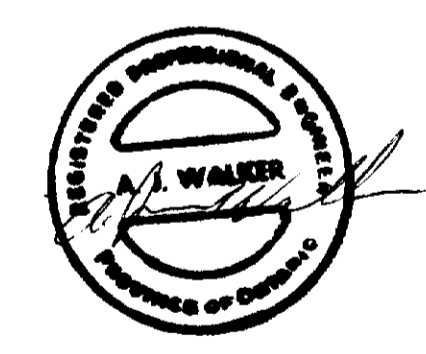


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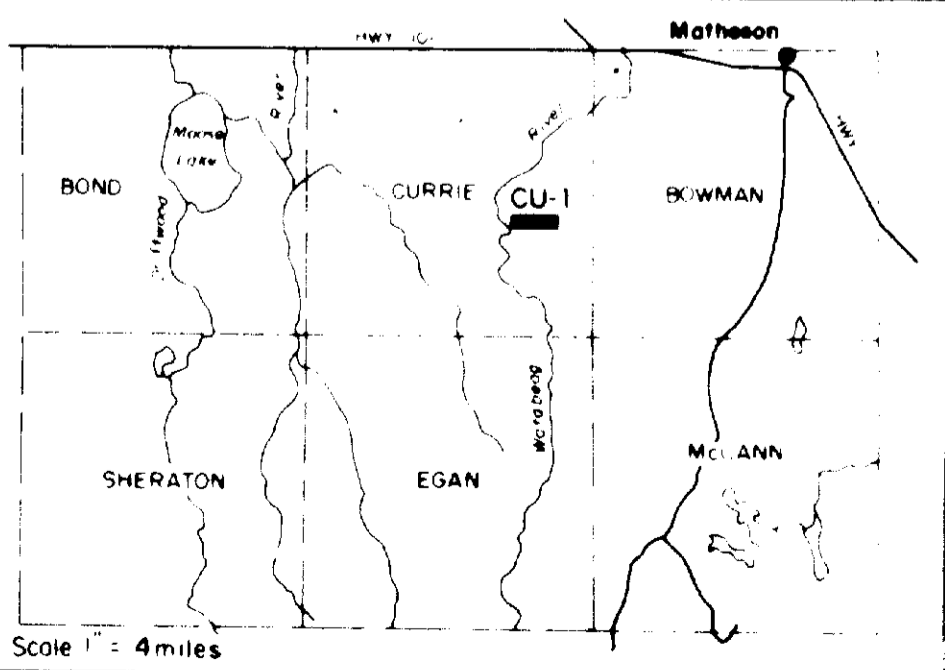
CON IV
CON III



CON III

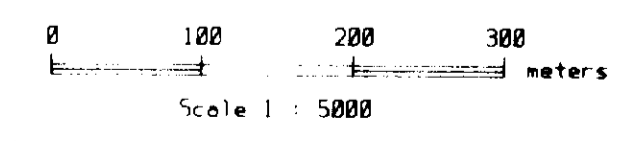


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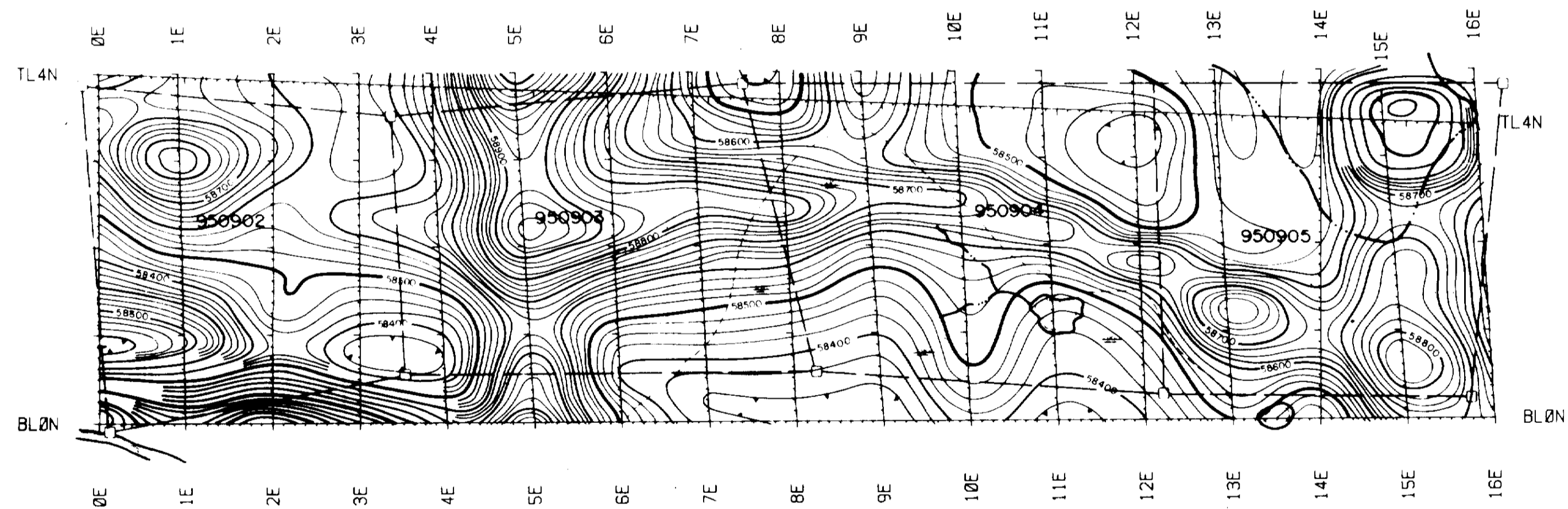


LEGEND
 Stream, Swamp, Lakeshore.....
 Claim Post and Line.....
 Instrument..... EDA PPM-500
 Base Station..... EDA PPM-400
 Base level..... 58000 nt

GRID CU-1 CURRIE TOWNSHIP
 MATHESON AREA ONTARIO
 MAGNETOMETER SURVEY
 TOTAL FIELD VALUES



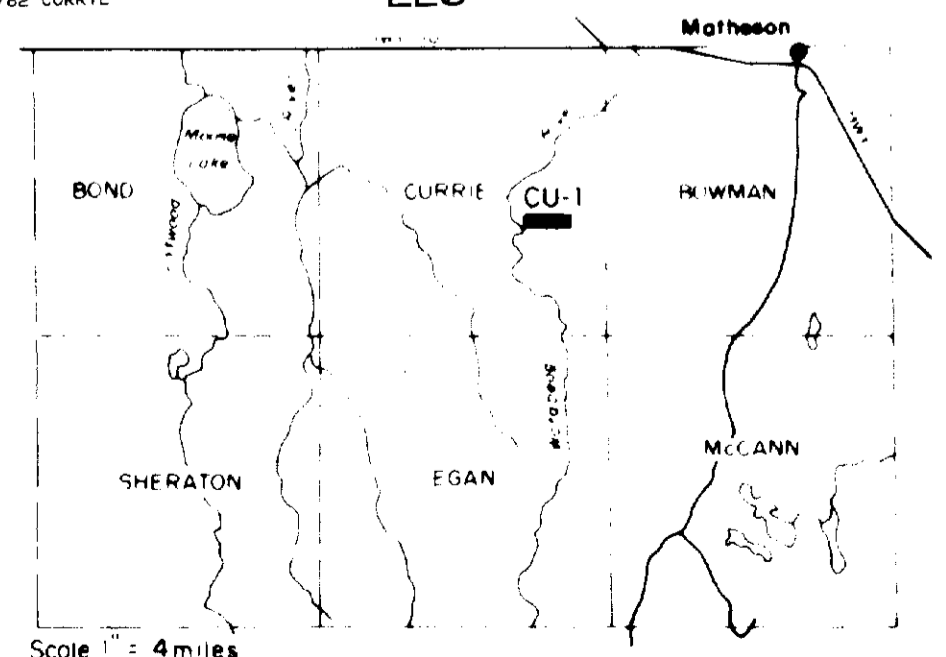
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 Mississauga Ontario
 JULY 1987
2.11060



CON III



220



NTS 42 R 7

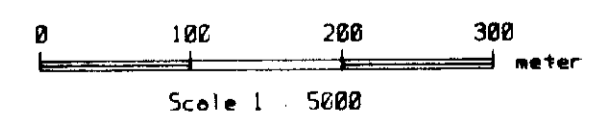
LEGEND

Stream, Swamp, Lakeshore.....	
Claim Post and line.....	
Instrument.....	EDA PPM-500
Base Station.....	EDA PPM-400
Contours of Total Field.....	25nt Interval
25nt contour.....	
100nt contour.....	
500nt contour.....	
1000nt contour.....	
Depression.....	

GRID CU-1 CURRIE TOWNSHIP
MATHESON AREA ONTARIO

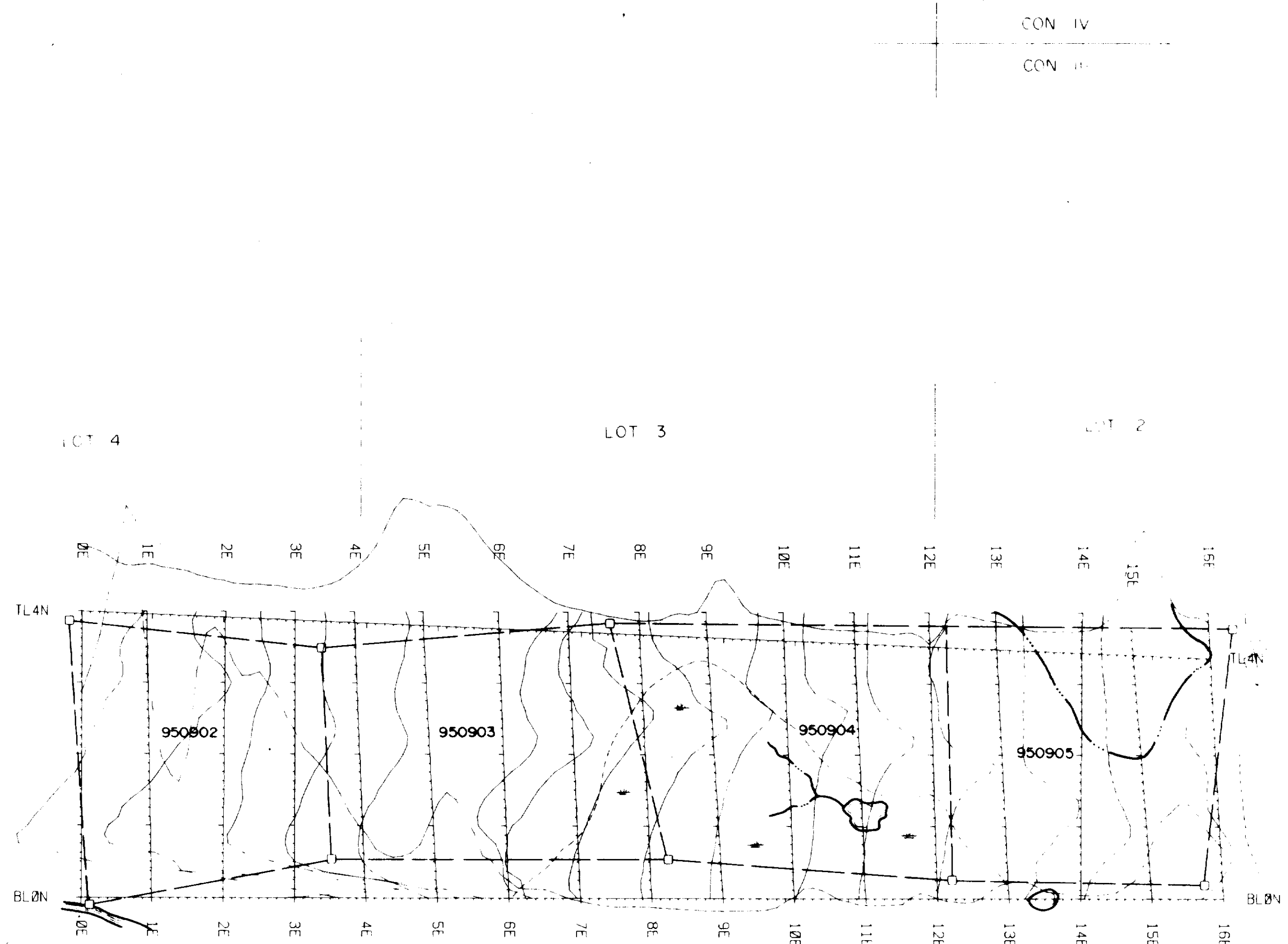
MAGNETOMETER SURVEY

TOTAL FIELD CONTOURS

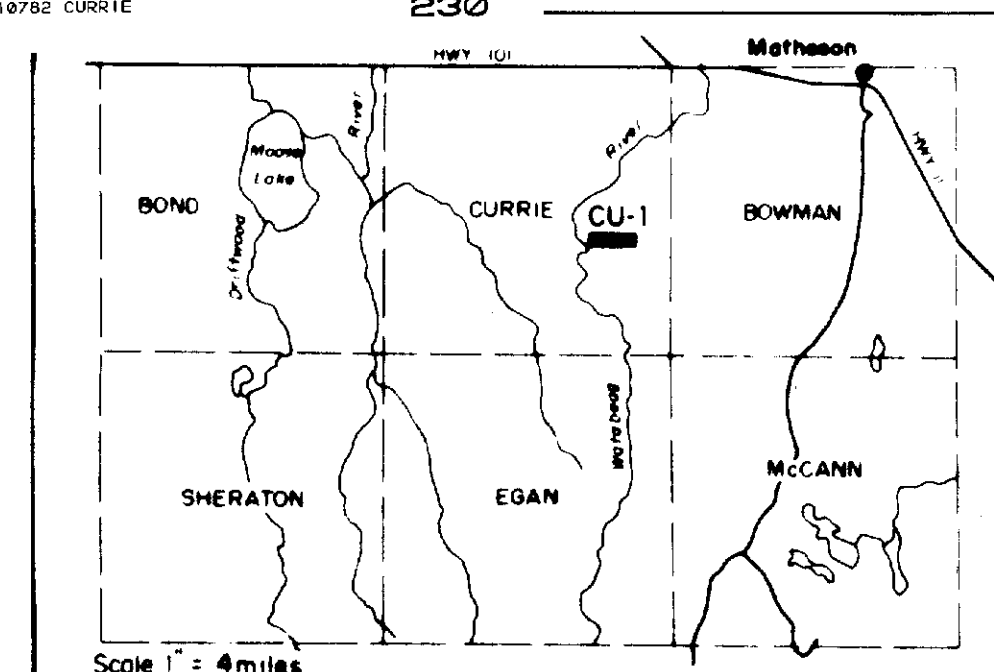


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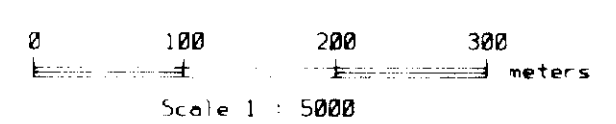


LEGEND
 Stream, Swamp, Lakeshore.....
 Claim Post and Line.....
 Instrument..... EDA PPM-500
 Base Station..... EDA PPM-400
 Base level..... 58400 nt
 Profile Scale = 200 nt/cm.....

NTS 42 R 7

GRID CU-1 CURRIE TOWNSHIP
 MATHESON AREA ONTARIO

MAGNETOMETER SURVEY
 TOTAL FIELD PROFILES



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