



32D045E0380 2.2998 SKEAD

2.2998

010

RECEIVED

JUL 16 1979

MINING LANDS SECTION

REPORT ON MAGNETOMETER SURVEYS

Lots 5, 6, and 7 Concession 6

Skead Township, Ontario

Introduction

A Proton precession magnetometer survey was carried out over 9 claims in Skead township by Colex Explorations Inc. A fluxgate magnetometer survey was also carried out over one claim to complete coverage in this area. The results are shown on the enclosed plans.

Location, Access and Ownership

The claims covered by the survey are located in Lots 5, 6 and 7 Concession 6 Skead township, Ontario. They are numbered L442035 to 442038; L442040 to 442042 inclusive L442062 and L512137. The claims are recorded in the name of R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario.

Access is from Highway 624, a paved secondary highway, which bisects the claims about 7 miles south of Larder Lake, Ontario.

Previous Exploration

In previous work about the 1920's several pits were sunk at various points and a shaft to 500 feet with some underground development was sunk on the claim immediately south of L442037. There is little information now available on this work, although good gold values were reported.

In the early 1970's lines were cut and the claims covered by fluxgate magnetometer, VLF and soil sampling surveys. Various anomalies were located but remain to be followed-up. In the fall of 1978, the grid lines were recut and a geological survey carried out. The present surveys use these lines.

Geology

The property is underlain by a volcanic sequence of rocks cut by later felsic to mafic intrusives. The volcanics are overlain by fine grained sedimentary rocks believed to be of the same relative age as the volcanics.

### Survey Procedure

The proton precession magnetometer survey was carried out using a Barringer GM-122 instrument. Readings were taken at 100-foot intervals along previously cut lines. The looping method was used for control of diurnal variation. In this method a base station is selected and readings taken along lines describing a loop, arriving back at the starting base station in less than two hours. A second loop is then started using either the same base station or another which is tied to the previous loop. Readings are then corrected for diurnal variation by assuming the time between readings is the same and distributing any variation equally among the intervening readings.

The fluxgate magnetometer survey was run on only one claim not previously surveyed with a Sharpe MF-1 instrument. Readings were taken and adjusted in the same way as for the Proton survey.

### Results

The proton precession magnetic readings are fairly flat over most of the property. In the south west corner of the property along the baseline there is some high magnetism, caused by ultramafic rocks. Another area of higher magnetism running sub-parallel to the baseline from 16W to 31W is also caused by known ultramafic rocks. A weak magnetic trend from line 35W to 47W at 12 + 00N on 35W to 15 + 00N on 47W may be caused by a dyke. One high reading on the north-central part of line 63W is probably a minor concentration of magnetite in the mafic volcanics. The rocks are not sufficiently magnetic to provide good contrast on the fluxgate survey.

### Conclusions

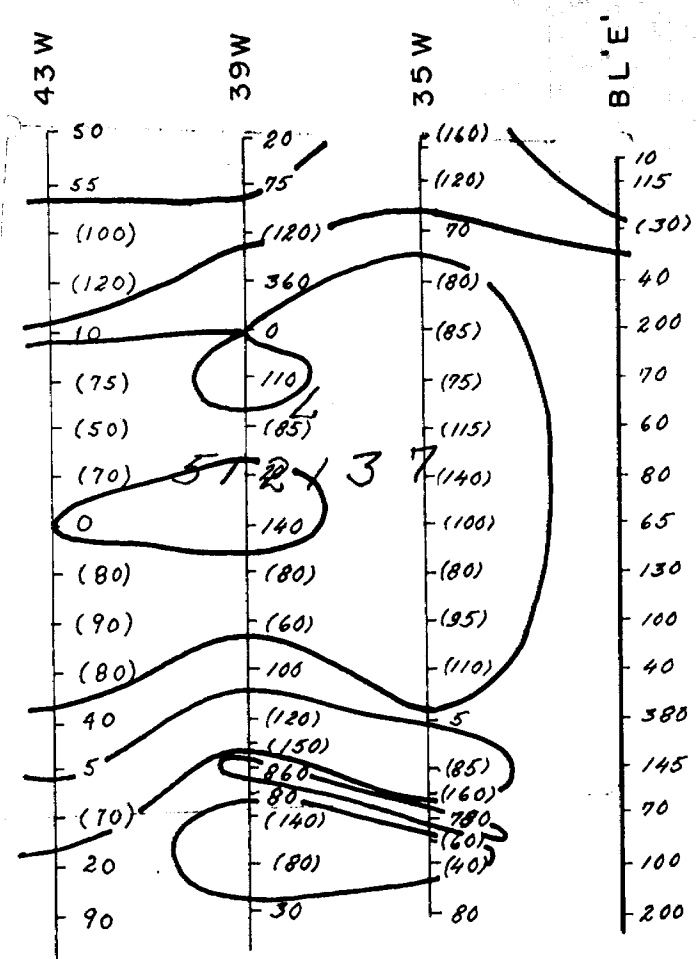
Excepting for the ultramafic rocks the sediments appear to have the highest overall magnetism. This may aid in mapping in drift covered areas. The trend of the magnetism in the sediments however, appears to be almost perpendicular to the strike in the north east part of the property. No explanation is known for this.

Respectfully submitted



R.A. MacGregor, P. Eng.

June 27, 1979



MAGNETOMETER SURVEY  
 L 512137  
 SKEAD TOWNSHIP  
 ONTARIO  
 Scale: 1" = 400'

INSTRUMENT: SHARPE MF-1  
 READINGS IN GAMMAS  
 CONTOUR INTERVAL  
 EVERY 1000 GAMMAS TO 5000 GAMMAS  
 EVERY 5000 GAMMAS THERE AFTER





32D04SE0380 2.2998 SKEAD

900

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) MAGNETOMETER (Proton, Fluxgate)

Township or Area SKEAD

Claim Holder(s) R.A. MacGregor

Survey Company Colex Explorations Inc.

Author of Report R.A. MacGregor

Address of Author 134 Palace Drive, S.S. Marie

Covering Dates of Survey June 1979  
(linecutting to office)

Total Miles of Line Cut --

**MINING CLAIMS TRAVERSED**  
List numerically

- ..... I. 442035 .....  
(prefix) (number)
- ..... I. 442036 .....
- ..... I. 442037 .....
- ..... I. 442038 .....
- ..... I. 442040 .....
- ..... I. 442041 .....
- ..... I. 442042 .....
- ..... I. 442062 .....
- ..... I. 512137 .....

If space insufficient, attach list

**SPECIAL PROVISIONS  
CREDITS REQUESTED**

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

**Geophysical**

- Electromagnetic \_\_\_\_\_
- Magnetometer 20 (20)
- 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: June 28/79 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. L.D. Qualifications 2.1102 +

Previous Surveys  
File No. Type Date Claim Holder

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 9

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations Proton 458-Fluxgate 68 Number of Readings Proton 458 Fluxgate 68  
Station interval 100 feet Line spacing 400 feet  
Profile scale \_\_\_\_\_  
Contour interval 250 gammas

MAGNETIC

Instrument Barringer GM-122 Sharpe MP-1  
Accuracy - Scale constant 1 gamma 20 gammas on lowest scale  
Diurnal correction method looping method  
Base Station check-in interval (hours) 2 hours or less  
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 \_\_\_\_\_



Ministry of Natural Resources Ontario

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of... LARDER LAKE Mining Division
Robert A. MacGregor K-15070
name of Recorded Holder Prospector's Licence
134 Palace Drive, SAULT STE. MARIE, Ontario
Post Office Address

do hereby report the performance of ... 20 ... days of Magnetometer type of work

not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Row 1: L512137, ..20, .....

All the work was performed on Mining Claim (s) ... (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

RECEIVED OCT 27 1983

INSTRUMENT: Sharpe MF-1 Fluxgate magnetometer

Report: R.A. MacGregor, 134 Palace Drive SAULT STE. MARIE, Ontario

MINING LANDS SECTION May-June 1979

Date June 25 1979

Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, Robert A. MacGregor
134 Palace Drive, SAULT STE. MARIE, Ontario
(Post Office Address)

hereby certify:

- 1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed here-to, having performed the work or witnessed same during and/or after its completion.
2. That the annexed report is true.

Dated June 25 19 79

Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH



Ministry of  
Natural  
Resources

Ontario

A separate form is  
required for each  
type of work to be  
recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of..... LARDER LAKE .....Mining Division  
I, Robert A. MacGregor .....K-15070  
name of Recorded Holder .....Prospector's Licence  
134 Palace Drive, SAULT STE. MARIE, Ontario  
Post Office Address

do hereby report the performance of .....180..... days of Magnetometer  
type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
L442035	.20..	L442042.	20...	.....	.....
L442036	.20..	L442062.	20...	.....	.....
L442037	.20..	L512137.	20...	.....	.....
L442038	.20..	.....	.....	.....	.....
L442040	.20..	.....	.....	.....	.....
L442041	.20..	.....	.....	.....	.....

All the work was performed on Mining Claim (s) .....  
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

**READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.**

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment  
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

RECEIVED

INSTRUMENT: Proton Magnetometer Barringer GM-122

OCT 27 1983

REPORT: R.A. MacGregor  
134 Palace Drive  
SAULT STE. MARIE, Ontario

MINING LANDS SECTION  
May-June 1979

Date June 25, 1979

*R. MacGregor*  
Signature of Recorded Holder or Agent

The Mining Act  
Certificate Verifying Report of Work

I, Robert A. MacGregor  
134 Palace Drive, SAULT STE. MARIE, Ontario  
(Post Office Address)

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.
- That the annexed report is true.

Dated June 25 19 79

*R. MacGregor*  
Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

Date of recording of work: June 27th, 1979

Recorded holder: Robert A. MacGregor,

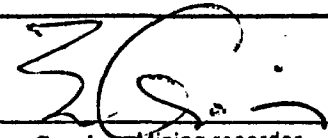
Address: 134 Palace Drive, Sault Ste. Marie, Ontario

Township or Area: Skead

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	L 442035 to L 442038 incl.
Electromagnetic _____ days	L 442040 to L 442042 incl.
Magnetometer <u>20</u> _____ days	L 442062, L 512137
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

  
E. Craig Mining recorder

c.c. → R.A. MacGregor,  
Sault Ste. Marie, Ontario.

**RECEIVED** LA. 065

OCT 27 1983

MINING LANDS SECTION



209840



The Mining Act

NO. L 512137

RECORDED IN THE NAME OF <b>Robert A MacGregor</b>		LICENCE NO. <b>K 15070</b>	RECEIPT NO. <b>A 052361</b>	DATE RECORDED <b>October 13, 1978</b>
ADDRESS <b>134 Palace Drive Sault Ste Marie, Ontario</b>			DATE AND TIME OF STAKING <b>September 12, 1978 at 8:00 A.M.</b>	P.T. <b>x</b>
ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS	OFFICE USE ONLY	DAYS RECORDED	BALANCE	DESCRIPTION OF CLAIM
		<b>7</b>	<b>3993</b>	<b>SKEAD TOWNSHIP NE<math>\frac{1}{2}</math> of N<math>\frac{1}{2}</math>, lot 6, concession 6 Former L 442039</b>
				RESERVATIONS - 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. <b>Mining Rights Only</b>

DATE	DAYS WORK		(512137)	RECEIPT NO.
Dec 6, 1978	(40)	2.2855 Geological APPROVED FWM MAY 25/79	(442042)	
March 28, 1979	(20)	2.2956 Geophysical E.M. APPROVED FWM FEB.13/80 (467263)	442035	
March 28/79	(20)	2.2956 Geophysical E.M. APPROVED FWM DEC.28/79 (476263)	(467263)	
June 27, 1979	20	Geophysical (mag)	512137	
June 27, 1979	(20)	2.2998 Geophysical (mag) APPROVED FWM NOV. 5/79 (442035)	442035	
Oct. 15, 1979		Transfer all interest to Superior Northwest Inc. T-626		
Nov. 21, 1979	(20)	2.3130 Geochemical APPROVED FWM JUNE 12/80 (442035)	L341838 (512137)	A161582
Jan. 4, 1982	(60)	D-4481 Diamond Drilling (performed on 532089 et al)	(512137)	
Sept 7 1982		Mining Lands Section advises survey not required, description based on original township survey feasible, description provided	(341838)	
Feb. 1/83		Legal description	(442042)	
June 20/83		Superior Northwest Inc T- 83-5 Transfers all interest to Robert A. MacGregor K15070	(442035)	H243427

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OCT 27 1983

This Abstract is a copy of the entries in the ...  
 OCT 19 1983  
 Mining Division

MINING LANDS SECTION

1983 11 15

2.2998

Mr. George J. Koleszar  
Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
P.O. Box 984  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

RE: Geophysical (Magnetometer) Survey on Mining Claims  
L 512137 in the Township of Skead

---

The Geophysical (Magnetometer) Survey assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-1380

R. Pichette:mc

Encl.

cc: Robert A. MacGregor  
134 Palace Drive  
Sault Ste. Marie, Ontario  
P6B 5H5

cc: Resident Geologist  
Kirkland Lake, Ontario



2.2998

R. A. MACGREGOR, P.ENG.  
MINING ENGINEER  
134 PALACE DRIVE  
SAULT STE. MARIE, ONTARIO  
--  
TEL. (705) 949-4250

October 25, 1983

Mr. F. Matthews  
Mining Lands Section  
Ministry of Natural Resources  
Rm. 1617, Whitney Block  
TORONTO, Ontario  
M7A 1W3

*Your file 2.2998?*

Dear Mr. Matthews:

Enclosed is an abstract for claim L512137 together with work reports and notification of recording of work for magnetometer surveys. There were two separate magnetometer surveys conducted on this claim, one part of a larger group using a Proton precession magnetometer (Barringer GM 122) and a second on this claim alone using a fluxgate magnetometer (Sharpe MF-1). Only one of these surveys appears to have been approved, although maps and report for both surveys were sent to you. It would appear the second survey was overlooked, as no reduction or cancellation has been received. You will note the first survey was approved on November 5, 1979.

Would you please look into this matter immediately as this claim is part of a larger group being brought to lease and the 11th year will shortly be up for some other claims in the group.

Yours very truly



Robert A. MacGregor, P. Eng.

RAM/jh  
Encl.

*Survey was done as a separate instrument. - warrants credit for both surveys.*

RECEIVED

OCT 27 1983

MINING LANDS SECTION



NOTES

400' surface rights reservation along the shores of all lakes and rivers.

All unpatented mining claims accepted subject to survey, Section 118 of the Mining Act (R.S.O. 1970)

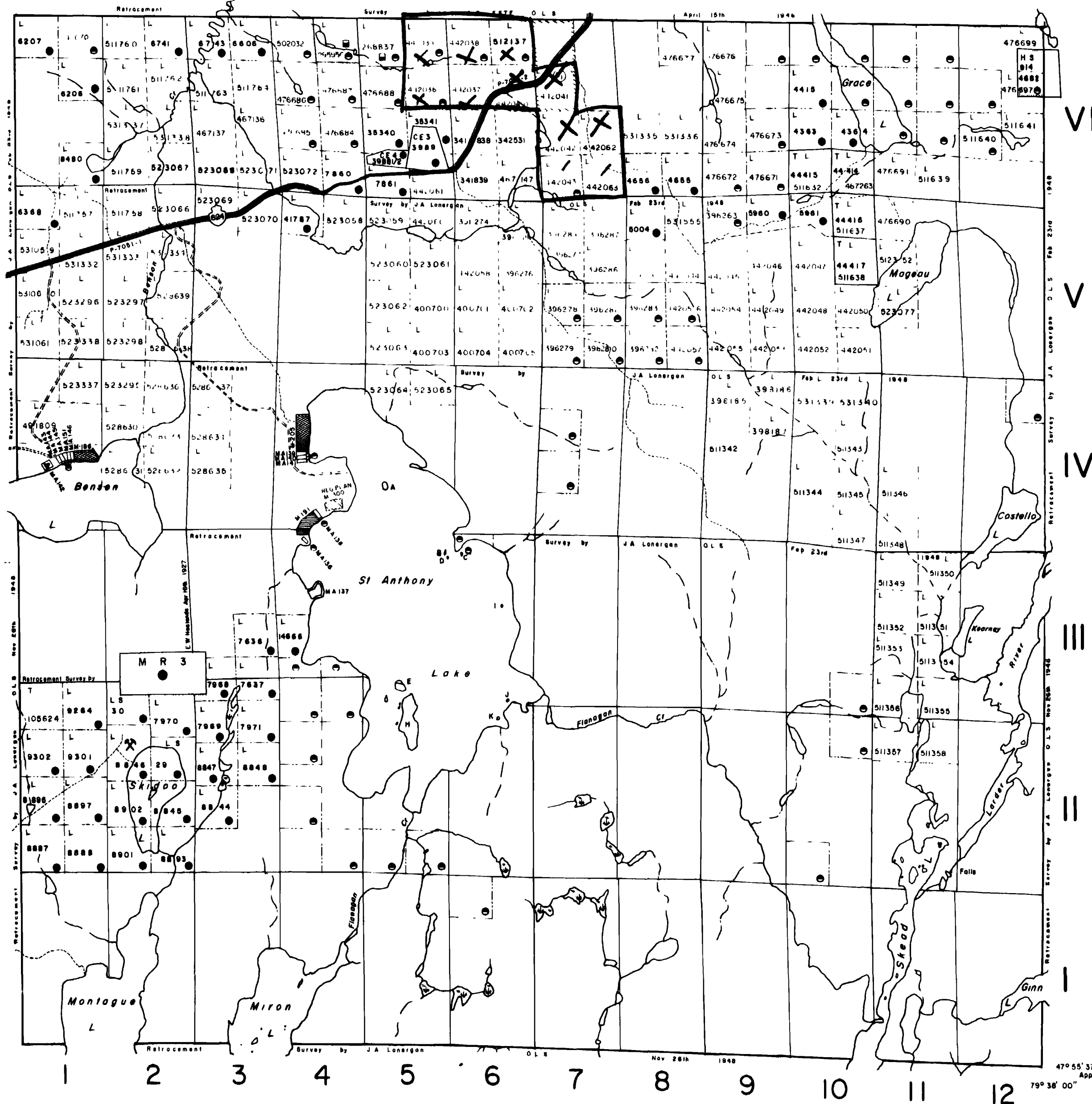
SAND and GRAVEL

MTC PIT No 1230

DATE OF ISSUE  
**JUL 17 1979**  
 SURVEYS AND MAPPING  
 BRANCH

HEARST TP. M.354

CATHARINE TP. M.336



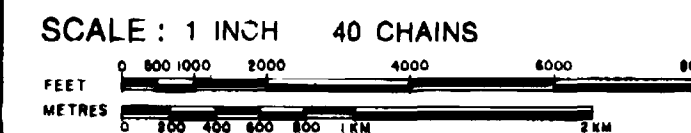
47° 55' 37" Approx  
 79° 38' 00"

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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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           |        |
| CROWN LAND SALE                 | CS     |
| ORDER-IN-COUNCIL                | OC     |
| RESERVATION                     |        |
| CANCELLED                       |        |
| SAND & GRAVEL                   |        |



ACRES	HECTARES
40	16

TOWNSHIP

**SKEAD**

DISTRICT

TIMISKAMING

MINING DIVISION

LARDER LAKE

Ministry of Natural Resources  
 Ontario Surveys and Mapping Branch

Date 10/4/74

Plan No

Whitney Block  
 Queen's Park, Toronto

**M.387**



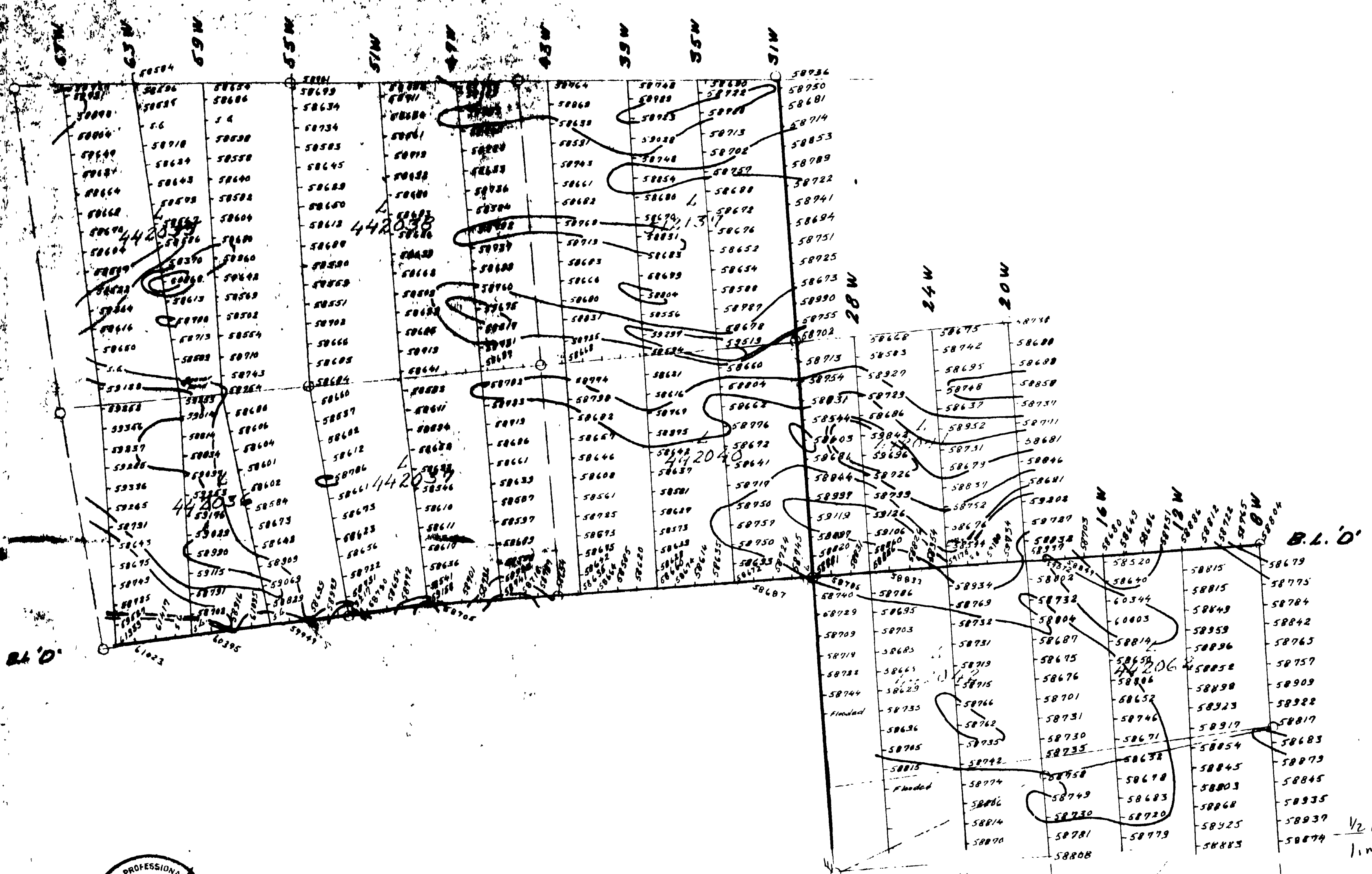
32046E9388 2.0008 SKEAD

200

47V

BAYLY TP. M.323

RATTRAY TP. M.384



MAGNETOMETER SURVEY  
 LOTS 607 CONCESSION 6  
 SKEAD TOWNSHIP  
 Scale 1" = 400'



INSTRUMENT: BARRINGER 6M 122  
 CONTOUR INTERVAL 250 GAMMAS



1/2 lot  
line