



32D04SE0227 2.4377 HEARST

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**RECEIVED**

DEC 8 1981

MINING LANDS SECTION

REPORT ON VLF-EM SURVEY  
HEARST AND SKEAD TOWNSHIPS  
ONTARIO

LARDER LAKE		MINING D.	
<b>RECEIVED</b>			
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Introduction

A VLF-EM survey was carried out in Hearst and Skead Townships by Colex Explorations Inc. The results are shown on the enclosed plan.

Location, Access and ownership

The claims covered by the survey are located in the south-east part of Hearst Township and the north-east part of Skead Township. There are 21 claims numbered L511693, L522792 to 522793, L523348 to 523352 inclusive, 531378, L532819, L532835 to 532837 inclusive, L545046 to 5405051 inclusive, L545054 and L545954 recorded in the name of Superior Northwest Inc., Box 1110, Sault Ste. Marie, Ontario.

Access to the property is obtained by travelling south from Larder Lake, Ontario about 6 miles on Highway 624, and then following geophysical lines east. The area may also be reached by an overgrown trail south along the east side of Sharp Creek from the bridge on the road to the old Martin-Bird mine. This road leaves Highway 624 about 4 miles south of Larder Lake.

Previous Exploration

There has been considerable surface prospecting in the past as evidenced by a number of old pits and trenches. Old drill casing was seen during the survey and holes are marked as having been drilled on O.D.M. map 1947-1. No records of drill logs or what, if anything, was found in this previous work could be located.

Geology

The property is underlain by a volcanic-sedimentary sequence of rocks, cut by felsic to mafic intrusives. A large part of the claims are covered by extensive drift. Later Huronian sediments cover the older rocks in the central part of the claims.

Survey Procedure

A grid was laid out with the baseline running at about N 15°W east of Grace Lake. Crosslines were cut perpendicular to the baseline at 400-foot intervals.

Survey Procedure (Continued)

A VLF-EM survey was carried out using a Pheonix VLF-2 instrument set to the signal from Cutler, Maine station (17.8 KHz). Readings were taken at 100-foot intervals using the procedure outlined in Appendix 1. 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. The time is noted for each station and readings are corrected for diurnal variation by assuming the time between readings is the same and distributing any variation equally among the intervening readings. No correction was applied less than the accuracy of the base station reading.

Results and Conclusions

The VLF-EM survey shows a number of cross-overs on the claims covered.

The topography is quite variable and further work is required to assess whether the conductors are caused by overburden or bedrock sources.

Respectfully submitted



R.A. MacGregor, P. Eng.

November 18, 1981

2.4377

C E R T I F I C A T E

I, Robert A. MacGregor, certify:

1. I am a Mining Engineer residing at 134 Palace Drive, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 17 years.
2. I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.
3. I attended Queen's University for two years in the Mining-Geology course.
4. I personally supervised the field work covered by this report.

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DATE

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R. A. MacGregor



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1982 11 12

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

Dear Sir:

RE:           Geophysical (Electromagnetic) Survey on Mining  
              Claims L 523352 et al in the Townships of Skead  
              and Hearst.

---

The Geophysical (Electromagnetic) Survey assessment work credits  
as listed with my Notice of Intent dated September 13, 1982 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 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1380

A. Barr:sc

cc: R.A. MacGregor  
      Sault Ste Marie, Ontario

cc: Resident Geologist  
      Kirkland Lake, Ontario



Ministry of  
Natural  
Resources

Ontario

Oct 1~~st~~, 1982

Your file:

Our file: 2.4377

September 13 1982

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

Dear Mr. Koleszar:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

Yours very truly,

E.F. Anderson  
Director  
Lands Administration Branch  
Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1316

/las

Encl.

cc Superior Northwest Inc.  
Sault Ste. Marie, Ontario

cc Mr. G. H. Ferguson, Q.C.  
Mining & Lands Commissioner  
Toronto, Ontario



Ministry of  
Natural  
Resources

Ontario

Notice of Intent  
for Technical Reports

File 2.4377

September 13, 1982

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

*Lands*  
*Address*  
*Pro*

Ministry of  
 Natural  
 Resources

Report of Work  
 (Geophysical, Geological,  
 Geochemical and Expenditures)

*Access file #560*

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.

*(File 2523194)*

The Mining Act

Type of Survey(s) <b>VLP-EM</b>		Township or Area <b>Sked &amp; Hearst</b>	
Claim Holder(s) <b>SUPERIOR NORTHWEST INC.</b>		Prospector's Licence No. <b>T-626</b>	
Survey Company <b>Colex Explorations Inc.</b>	Survey Dates (linecutting to office) Day <b>11</b>   <b>80</b>	Total Miles of line Cut Day <b>11</b>   <b>81</b>	
Name and Address of Author (of Geo-Technical report) <b>R.A. MacGregor, 134 Palace Dr., SAULT STE. MARIE, Ontario</b>			

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	<b>20</b>
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
<b>L</b>	<b>5233</b>				
	<b>531370</b>				
	<b>532819</b>				
	<b>532835</b>				
	<b>532836</b>				
	<b>532837</b>				
	<b>545046</b>				
	<b>545047</b>				
	<b>545048</b>				
	<b>545049</b>				
	<b>545050</b>				
	<b>545054</b>				
	<b>511693</b>				

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

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

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures  $\div$  15 = Total Days Credits

\$   $\div$  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.

Report Completed

Date of Report: **Nov. 18/81**

Recorded Holder or Agent (Signature): *(MacGregor)*

For Office Use Only

Total Days Cr. Recorded: **260**

Date Recorded: **NOV 23 1981**

Date Approved as Recorded: \_\_\_\_\_

Mining Recorder: *(Signature)*

Regional Branch Director: \_\_\_\_\_

Total number of mining claims covered by this report of work: **13**

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: \_\_\_\_\_

**RECEIVED**  
**DEC 8 1981**  
**MINING LANDS SECTION**



*Hearst*  
 Report of Work  
 (Geophysical, Geological,  
 Geochemical and Expenditures)

*File 2522783*  
*FILE NO. 24156*

- 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.

*#437*

The Mining Act

Type of Survey(s) **ELECTROMAGNETIC** Township or Area **HEARST**  
 Claim Holder(s) \_\_\_\_\_ Prospector's Licence No. \_\_\_\_\_  
 Survey Company **SUPERIOR NORTHWEST INC.** T-626  
**COLEX EXPLORATIONS INC.** Survey Dates (linecutting to office) Total Miles of line Cut  
 Day | **11** | 80 | Day | **10** | 81  
 Name and Address of Author (of Geo-Technical report)  
**R.A. MacGregor, 134 Palace Drive, SAULT STE. MARIE, Ont.**

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	<b>20</b>
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	<b>40</b>
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
<b>L</b>	<b>522792</b>				
	<b>522793</b>				
	<b>545051</b>				
	<b>545954</b>				
	<b>523348</b>				
	<b>523349</b>				
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	<b>523351</b>				
	<b>523352</b>				
	<b>523353</b>				
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	<b>523361</b>				
	<b>523362</b>				
	<b>523363</b>				
	<b>523364</b>				
	<b>523365</b>				
	<b>523366</b>				
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	<b>523499</b>				
	<b>523500</b>				

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

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

Expenditures (excludes power stripping)

Type of Work Performed \_\_\_\_\_

Performed on Claim(s) \_\_\_\_\_

Calculation of Expenditure Days Credits

Total Expenditures \$ \_\_\_\_\_ ÷ 15 = Total Days Credits \_\_\_\_\_

Report Completed

Date of Report **Sept. 21/81**

Recorded Holder or Agent (Signature) *R. MacGregor*

For Office Use Only

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

Total Days Cr. Recorded **480**

Date Recorded **Sept 29, 1981**

Date Approved as Recorded \_\_\_\_\_

Mining Recorder *[Signature]*

Regional/Branch Director \_\_\_\_\_

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 **R.A. MacGregor, 134 Palace Dr. Sault Ste. Marie, Ont.**

Date Certified **Sept. 21/81**

Certified by (Signature) *[Signature]*

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OCT - 5 1981

MINING LANDS SECTION

LABOR SECTION

RECEIVED

AM 7 18 19 10 11 12 1 2 3 4 5 6 PM



Recorded Holder Superior Northwest Inc.
Township or Area Hearst and Skead Townships

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b>	
Electromagnetic <u>17</u> days	L 511693
Magnetometer _____ days	L 522792 - 93
Radiometric _____ days	L 523348 to 50, inclusive
Induced polarization _____ days	L 531370
Section 86 (18) _____ days	L 532819
Geological _____ days	L 532835 to 37, inclusive
Geochemical _____ days	L 545046 to 51, inclusive
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	L 545054
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	L 545954
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

**Special credits under section 86 (15a) for the following mining claims**

**No credits have been allowed for the following mining claims**

not sufficiently covered by the survey       Insufficient technical data filed

L 523351 - 52

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:

1982 07 06

2.4377

Mr. R.A. MacGregor  
134 Palace Drive  
Sault Ste. Marie, Ontario  
P6B 5H5

Dear Sir:

Re: Geophysical (Electromagnetic) Survey submitted on  
Mining Claims L 523352 et al, in the Twp. of Skead  
and Hearst

Enclosed is the final page (in duplicate) for the above-mentioned report. Please sign both pages and return them to this office.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1316

A. Barr/amc

Encl.

cc: Mining Recorder  
Kirkland Lake, Ontario

Mining Lands Comments

- report not signed.

To: Geophysics *Mr Barber.*

Comments  
- ULF Report not signed

Approved

Wish to see again with corrections

Date

*June 15/82*

Signature

*R Barber*

To: Geology - Expenditures

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

December 18, 1981

2.4377

Office of the Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
P.O. Box 984  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

We have received reports and maps for a Geophysical  
(Electromagnetic) Survey submitted under Special Provisions  
(credit for Performance and Coverage) on Mining Claims  
L.523352 et al, in the Townships of Skaad and Hearst.

This material will be examined and assessed and a statement  
of assessment work credits will be issued.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1380

cc: R.A. MacGregor  
Sault Ste. Marie, Ontario



Ministry of Natural Resources

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

File \_\_\_\_\_

RECEIVED  
 DEC 8 1981  
 MINING LANDS SECTION

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) VLF-EM  
 Township or Area Hearst & Skead  
 Claim Holder(s) Superior Northwest Inc.  
 Survey Company Colex Explorations Inc.  
 Author of Report R.A. MacGregor  
 Address of Author 134 Palace Dr. S.S. Marie, Ont.  
 Covering Dates of Survey January - November 1981  
(linecutting to office)  
 Total Miles of Line Cut \_\_\_\_\_

MINING CLAIMS TRAVERSED	
List numerically	
L 511693	
L 522792	(prefix) (number)
L 522793	
L 523348	
L 523349	
L 523350	
L 523351	
L 523352	
L 531370	
L 532819	
L 532835	
L 532836	
L 532837	
L 545046	
L 545047	
L 545088	
L 545049	
L 545050	
L 545051	
L 545054	
L 545954	
TOTAL CLAIMS	<u>21</u>

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	<u>20</u>
-Magnetometer	_____
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Nov. 18/81 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

Previous Surveys

File No.	Type	Date	Claim Holder

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 850 Number of Readings 850

Station interval 100 feet Line spacing 400 feet

Profile scale 1" = 40'

Contour interval

MAGNETIC

Instrument

Accuracy - Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument Phoenix VLF-2

Coil configuration N/A

Coil separation N/A

Accuracy +/- 1/2'

Method: Fixed transmitter Shoot back In line Parallel line

Frequency Cutler, Maine (17.8 KHz) (specify V.L.F. station)

Parameters measured Dip angle of the resultant field

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

McVITTIE TWP. M-370



THE TOWNSHIP  
OF

HEARST

DISTRICT OF  
TIMISKAMING

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND ● or ⊕
- CROWN LAND SALE C.S.
- LEASES L.
- LOCATED LAND Loc.
- 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
- CANCELLED
- PATENTED S.R.O.

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP of LARDER LAKE. File: 129282.

Staking of mining claims within the Town of Larder Lake shown thus subject to Sec. 37(b) of the Mining Act (R.S.O. 1970).

SAND AND GRAVEL

⊕ QUARRY PERMIT

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970)

OrderNo.	File	Date	Disposition
W14/80NR.	164586	26/11/80	S.R.O.

DATE OF ISSUE  
**JUL 29 1982**  
Ministry of Natural Resources  
TORONTO

PLAN NO. **M-354**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

McELROY TWP. M-366

McFADDEN TWP. M-368

SKCAD TWP. M-387



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

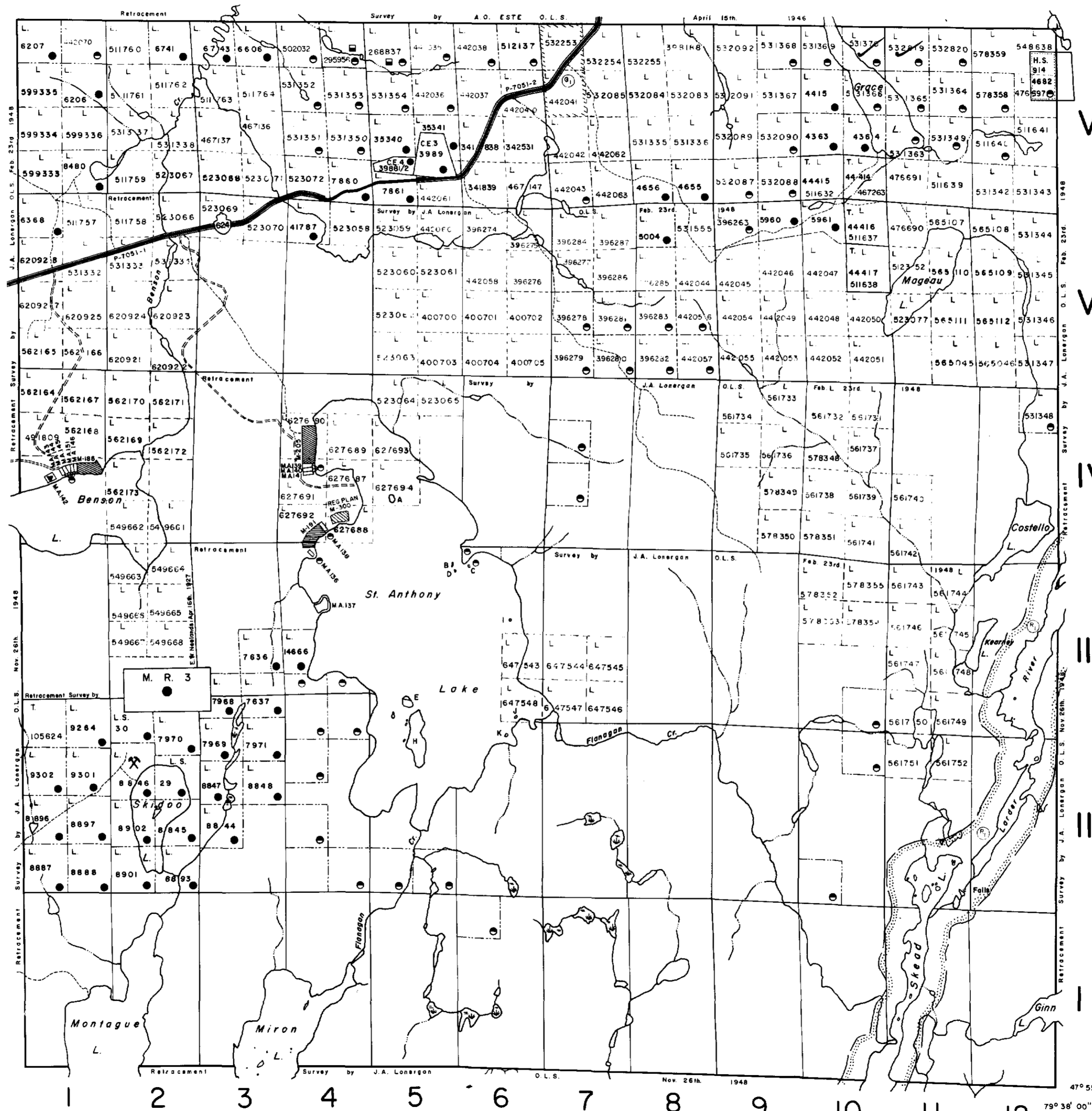
M.T.C. PIT No. 1230

Areas withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1970)

Order No.	File	Date	Disposition
W11/79	188522	June 19 '79	surface & mining rights.

DATE OF ISSUE  
JUL 29 1982  
Ministry of Natural Resources  
TORONTO

HEARST TP. M.354

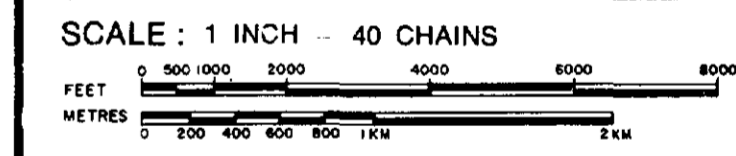


LEGEND

- 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	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	



ACRES	HECTARES
40	16

TOWNSHIP 24377  
**SKEAD**  
DISTRICT  
TIMISKAMING  
MINING DIVISION  
LARDER LAKE

Ministry of Natural Resources  
Ontario Surveys and Mapping Branch

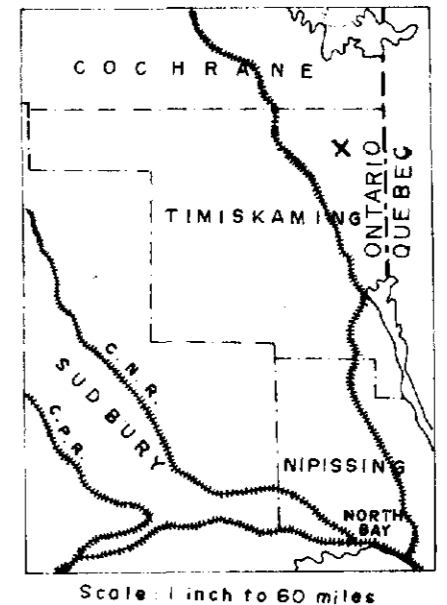
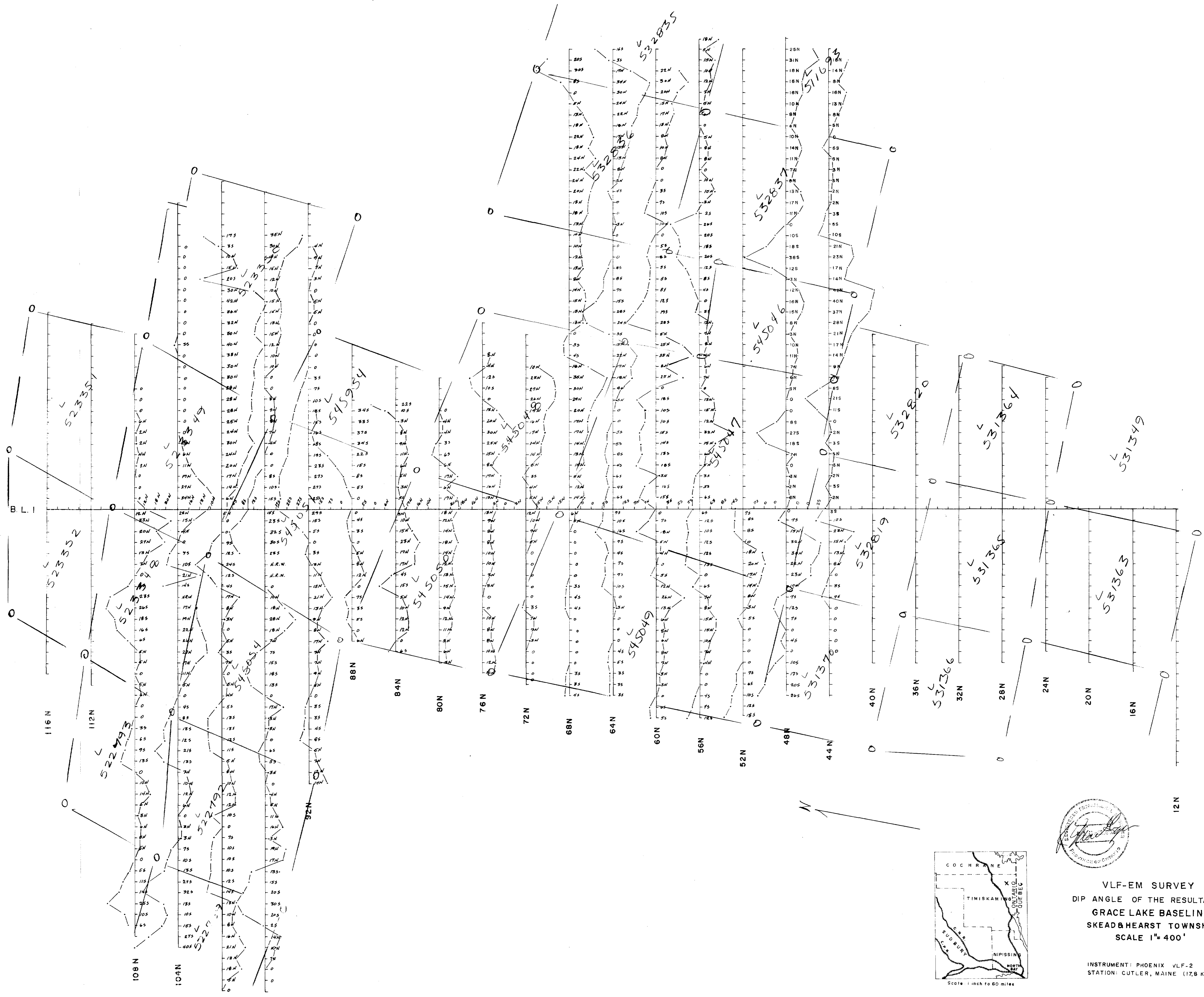
Date 10/4/74 Plan No. M.387  
Whitney Block Queen's Park, Toronto

BAILY TP. M.323



32045E027 2.4377 HEARST





VLF-EM SURVEY  
 DIP ANGLE OF THE RESULTANT FIELD  
 GRACE LAKE BASELINE  
 SKEAD & HEARST TOWNSHIPS  
 SCALE 1" = 400'

INSTRUMENT: PHOENIX VLF-2  
 STATION: CUTLER, MAINE (17.8 KHZ)

