



32D04SE0080 2.5463 MCFADDEN

010

RECEIVED

FEB 16 1983

REPORT ON  
VLF-EM SURVEY MINING LANDS SECTION  
HEARST AND MCFADDEN TOWNSHIPS  
ONTARIO

Introduction

A V L F - E M survey was carried out in Hearst and McFadden 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 on the south-west part of McFadden Township. There are 42 claims number L511686 to 511691; L523351 to 523355; L523451 to 523456; L532821 to 532827; L532831 to 523836; L548643 to 548653 all inclusive and L523194, recorded in the name of Superior Northwest Inc., Box 1110, Sault Ste. Marie, Ontario

In addition there are 11 claims numbered L511684 to 511685; L523457 to 523459 inclusive; L545059 to 545060 and 548639 to 548642 inclusive, recorded in the name of R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario.

Access to the property is obtained by travelling south from Larder Lake, Ontario about 4 miles on Highway 624, and then following seasonal road about 2 miles to the old Martin-Bird Mine. The claims may be reached from here by following geophysical lines and trails to the south-east.

Previous Exploration

There has been a considerable amount of surface prospecting in the past. A number of deep pits were noted during the survey but no information is available on when they were dug or what, if anything, was found.

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 east part of the claims.

Survey Procedure

A grid line was laid out across the property with a baseline running about S 60° E across the property. Crosslines were cut perpendicular to the baseline at 400-foot intervals.

A V L F - E M survey as carried out using a Phoenix VLF-2 instrument set to the signal from Cutler, Maine (17.6 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.

May 1, 1981

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 20 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.

May 1/81

DATE

R. A. MacGregor

R. A. MacGregor

# VLF-2

## Electromagnetic Unit

- Lightweight, low battery drain, rugged, simple to operate
- Two independent channels
- Each channel may select any station between 14.0 and 29.9 kHz
- Single crystal used for all frequencies
- Locking clinometer provides tilt-angle memory
- Superheterodyne detection and digital filtering provide extremely high selectivity and noise rejection



Military and time standard VLF transmitters are distributed over the world. These stations are used for geophysical EM surveying thus eliminating the need for a local transmitter and permitting one-man operation.

To ensure that a station excites the prospective conductor, two stations at approximately right angles are used during a survey (see data on back).

The choice of 160 frequencies in the range 14.0 to 29.9 kHz permits the use of a local EM transmitter when no suitable regular VLF station is available.



## PHOENIX GEOPHYSICS LIMITED

Geophysical Consulting and Contracting, Instrument Manufacture, Sale and Lease.

Head Office: 200 Yorkland Blvd. Willowdale, Ont., Canada, M2J 1R6. Tel: (416) 493-6350  
1424 - 355 Burrard St. Vancouver, B.C., Canada, V6C 2G8. Tel: (604) 684-2285  
2430 N. Huachuca Dr., Tucson, Arizona, U.S.A. 85705. Tel: (602) 884-8542

# Specifications

- Parameters Measured** : Orientation and magnitude of the major and minor axes of the ellipse of polarization.
- Frequency Selection, Front Panel** : Dual channel, front panel selectable (F1 or F2) each with independent precision 10-turn dial gain control.
- Frequency Selection, Internal** : F1 and F2 can be selected by internal switches within the range 14.0 to 29.9 kHz in 100 Hz increments.
- Detection And Filtering** : Superheterodyne detection and digital filtering provide a much narrower bandwidth and thus greater rejection of interfering stations and 60 cycle noise than conventional receivers.
- Meter Display** : 2 ranges: 0 to 300 or 0 to 1000. Background is typically set at 100. Meter is also used as dip angle null indicator and battery test.
- Audio** : Crystal speaker, 2500 Hz used as null indicator.
- Clinometer** :  $\pm 90^\circ$ ,  $+0.5^\circ$  resolution. Normal locking, push button release.
- Battery** : One standard 9v transistor radio battery. Average life expectancy - 1 to 3 months (battery drain is 3 mA)
- Temperature Range** :  $-40^\circ$  to  $+60^\circ$  C.
- Dimensions** : 8 x 22 x 14 cm (3 x 9 x 6 inches).
- Weight** : 850 grams (1.9 pounds).

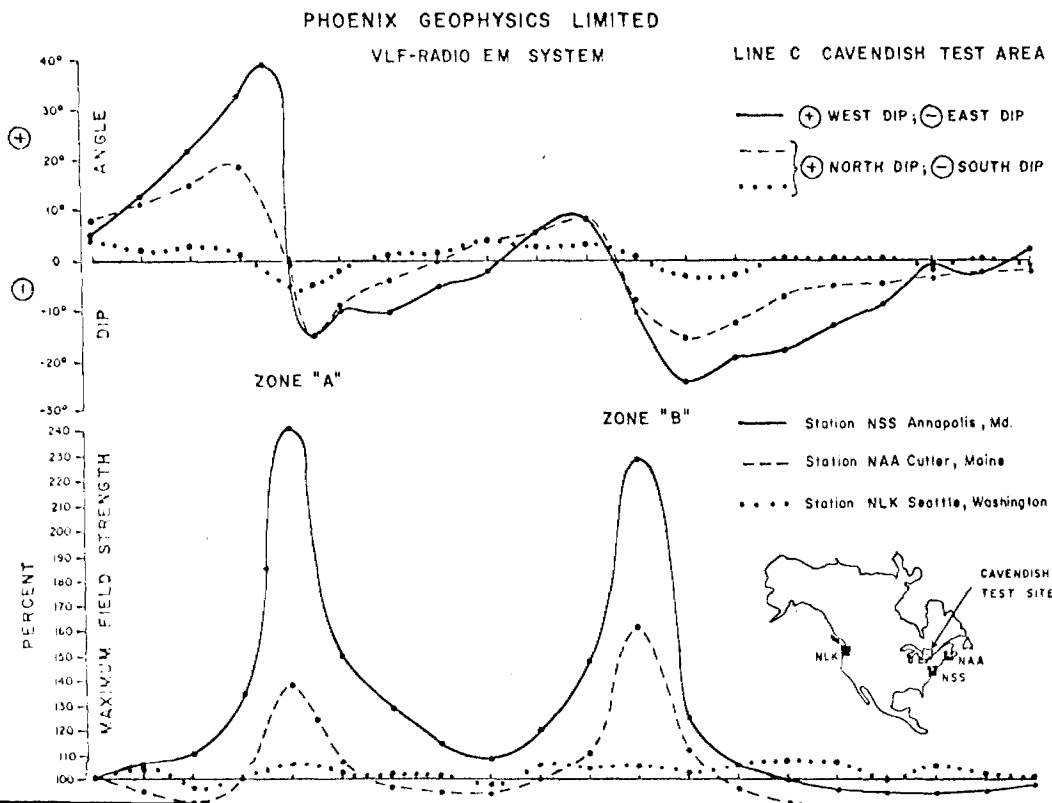
All of the established stations may be selected, or alternatively, a local VLF transmitter may be used which transmits at any frequency in the range 14.0 to 29.9 kHz.

VLF Station	Frequency (kHz)
Bordeaux, France	15.1
Odessa (Black Sea)	15.6
Rugby, U.K.	16.0
Moscow, U.S.S.R.	17.1
Yosamai, Japan	17.4
Hegaland, Norway	17.6
Cutler, Maine	17.8
Seattle, Washington	18.6
Malabar, Java	19.0
Oxford, U.K.	19.6
Paris, France	20.7
Annapolis, Maryland	21.4
Northwest Cape, Australia	22.3
Lauluolai, Hawaii	23.4
Buenos Aires, Argentina	23.6
Rome, Italy	27.2

# Field Data

The results below illustrate the need for using two orthogonal stations when the strike of the prospective conductor is not well-known. The dip angle and amplitude data measured using station NLK in Seattle, Washington, show only a very weak anomaly associated with the two conductive sulphide zones at Cavendish, Ontario.

The results obtained using Cutler, Maine reveal a more prominent anomaly, but the best response was obtained using Annapolis, Maryland since the station lies almost due south and the transmitted electromagnetic field is thus maximum-coupled with the North-South trending conductors.



File # 548646



VLF-EM

900

Claim Holder: R.A. MacGregor

T-626

Address: 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5

Survey Company: Colex Explorations Inc.

Date of Survey (from & to): Day 1, Mo. 81, Day 10, Mo. 81

Total Miles of line Cut

Name and Address of Author (of Geo Technical report): R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5

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	20
For each additional survey using the same grid: Enter 20 days (for each)	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Main Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological	
	Geochemical	
	Electromagnetic	
	Magnetometer	
	Radiometric	

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L548650					

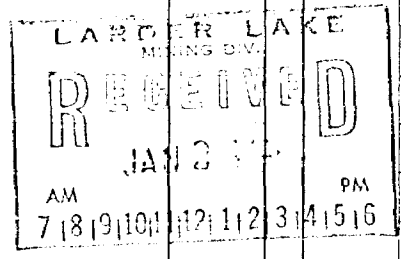
**NOTE:**  
This claim was included in file 2.5463 approved August 12, 1983 but left off the original work report dated Sept. 9/82 due to oversight or typographical error Report and maps already submitted under above file number.

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.

For Office Use Only: Total Days Cr. Recorded 20, Date Recorded JAN 24 1984, Mining Recorder, Date Approved as Recorded 84.2.15, Branch Director

Date: Jan. 20/84, Record Holder or Agent (Signature): R.A. MacGregor

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: Jan. 20/84, Certified by: R.A. MacGregor

Larder Lake (Adm. file 2511689) The Mining Act **25463**

Type of Survey: **VI M**  
 Claim Hold: **SUPERIOR NORTHWEST INC.**  
 Address: **P.O. Box 1110, Sault Ste. Marie, Ontario P6A 5N7**  
 Survey Company: **Colex Explorations Inc.**  
 Name and Address of Author (of Geo. Technical report): **R.A. MacGregor, 134 Palace Dr. Sault Ste. Marie, Ontario P6B 5H5**  
 Township or Area: **Hearst & McFadden**  
 Prospector's Licence No.: **T-626**  
 Date of Survey (from & to): **1 81 10 81**  
 Total Miles of line Cut: **2.5463**

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	<b>20</b>
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid	- Other	
Enter 20 days (for each)		
	Geological	
	Geochemical	
Min Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L	511688		L	532833	
	511689			532834	
	511690				
	511692 <i>can</i>				
	548643				
	548644				
	548645				
	548646				
	548647				
	548648				
	548649				
	548651				
	548652				
	548653				
	523194				
	523351 <i>can</i>				
	523352 <i>can</i>				
	532821				
	532822				
	532823				
	532824				
	532831				
	532832				

**RECEIVED**  
 OCT 19 1982  
 MINING LANDS SECTION  
**LARDER LAKE MINING DIV.**  
**RECEIVED**  
 SEP 28 1982  
 AM 7 18 19 10 11 12 1 12 3 4 5 6 PM

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.

Total number of mining claims covered by this report of work. **22**

Date: **Sept. 9/82**  
 Record Holder or Agent (Signature): *R.A. MacGregor*

For Office Use Only

Total Days Cr. Recorded: **440**  
 Date Recorded: **SEP 28 1982**  
 Mining Recorder: *[Signature]*  
 Date Approved as Recorded: **83:08:12**  
 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: **Robert A. MacGregor, P.O. Box 1110, Sault Ste. Marie, Ont. P6A 5N7**

Date Certified: **Sept. 9/82**  
 Certified by (Signature): *[Signature]*



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

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 & McFadden
Claim Holder(s) Superior Northwest Inc.
R.A. MacGregor
Survey Company Colex Explorations Inc.
Author of Report R.A. MacGregor
Address of Author 134 Palace Dr., S.S. Marie
Covering Dates of Survey January - April 1981
(linecutting to office)
Total Miles of Line Cut 44.6

MINING CLAIMS TRAVERSED
List numerically

- L511684 L548645
L511685 L548646
L523457 (prefix) L548647 (number)
L523458 L548648
L523459 L548649
L545059 L548650
L545060 L548651
L548639 L548652
L548640 L548653
L548641 L523194
L548642
L511686
L511687
L511688
L511689
L511690
L511691
L523351
L523352
L523353
L523354
L523355
L523451
L523452
L523453
L523454
L523455
L523456
L532821
L532822
L532823
L532824
L532825
L532826
L532827
L532831
L532832
L532833
L532834
L532835
L532836
L548643
L548644

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS per claim

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

Geophysical
-Electromagnetic 20
-Magnetometer
-Radiometric
-Other
Geological
Geochemical

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: May 1, 1981 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS 53

If space insufficient, attach list

OFFICE USE ONLY



GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2450 Number of Readings 2450  
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 17.6 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 \_\_\_\_\_

May 24/88

File 2.5463

Mining Lands Comments

[Empty comment box]

To: Geophysics *Mr. Barlow.*

Comments

[Empty comment box]

Approved  Wish to see again with corrections

Date *July 28/83*

Signature *Angus K. Pitcher*

To: Geology - Expenditures

Comments

[Empty comment box]

Approved  Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

*L.D.*

Approved  Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1983 04 21

2.5463

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

Dear Sir:

We have received the reports and maps for a Geophysical  
(Electromagnetic) survey submitted under Special Provisions  
(credit for Performance and Coverage) on Mining Claims  
L 511688 et al in the Townships of Hearst and McFadden.

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

A. Barr:sc

cc: Superior Northwest Inc  
Sault Ste Marie, Ontario  
Attn: Mr. R.A. MacGregor.

1983 03 03

Mr. R.A. MacGregor, P. Eng.  
Mining Engineer  
134 Palace Drive  
Sault Ste. Marie, Ontario  
P6B 5H7

Dear Sir:

With reference to your letter of February 14, 1983 one of the several groups of surveys that you enclosed does jibe with the notice of recording of work dated September 28, 1982 issued by the recorder. That report was described as VLF-EM survey - Hearst and McFadden Townships.

I am returning herewith the other four groups (in duplicate) as you did not specify whether you sent them to be assessed for work credits or simply to help solve our original problem with the notice from the recorder.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

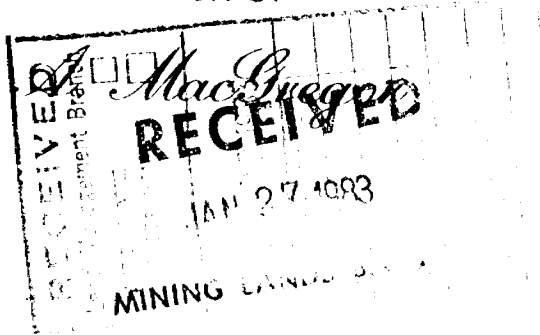
Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone 416/965-1380

F.W. Matthews:sc

Encls:

FROM THE DESK OF

Robert



Dear Sirs

The report for this week  
 was sent to you some time  
 ago. To the effect of the  
 week report, under a week  
 report stating additional  
 claims 15116 56-57

15139 51-52

15152 51-53

I cannot locate it exactly,  
 I have been unable to note  
 any cross reference between  
 (over)

January 31, 1983

R.A. MacGregor  
134 Palace Drive  
Sault Ste. Marie, Ontario  
P6A 5N7

Dear Sir:

We have received your letter regarding Mining Claims L511688 et al in the Townships of Hearst and McFadden. Unfortunately, we cannot locate the file to which this report of work belongs to.

Please check your records and let us know:

- (a) When the report and maps were submitted
- (b) If you have received an acknowledgement letter from us, and the file number assigned to the work in question.

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

Diane Wice

Encl.

R. A. MACGREGOR, P.ENG.

MINING ENGINEER

134 PALACE DRIVE

SAULT STE. MARIE, ONTARIO

TEL. (705) 949-4250

Feb. 14, 1983

RECEIVED

FEB 16 1983

MINING LANDS SECTION

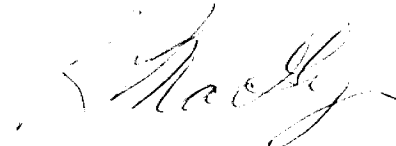
Ms. Diane Wice  
Land Management Branch  
MINISTRY OF NATURAL RESOURCES  
Whitney Block Rm 6450  
Queen's Park  
TORONTO, Ontario  
M7A 1W3

Dear Ms. Wice:

I have searched my files and find it impossible to identify the acknowledgement or file number. Since the report was submitted previously, and this is a supplementary work report, I cannot identify it from the first claim number, as this will be different. As there are a large number of reports and various overlapping grids often with the same first claim number, it is all very confusing trying to find anything from such numbers.

I am enclosing two copies of the original report with maps. Hopefully you may be able to identify it in this way. If not, perhaps I can simply refile, if you give me some notice so that the claims will not be thrown open in the process.

Yours truly



R.A. MacGregor, P. Eng.

RAM/jh  
Encl.

1983 01 21

R.A. MacGregor  
134 Palace Drive  
Sault Ste Marie, Ontario  
P6A 5N7

Dear Sir:

Enclosed is a copy of a report of work for  
Electromagnetic assessment work credits that was  
recorded by the recorder on September 28, 1982 on  
Mining Claims L 511688 et al in the Township of  
Hearst and McFadden.

We have no record that you provided the full reports  
and maps to the Minister within the sixty day period  
provided by Section 77 of the Mining Act.

Unless you can provide evidence that the reports and  
maps were submitted as required by January 31, 1983 the  
Mining Recorder will be directed to cancel the work  
credits recorded on September 28, 1982.

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

Diane Wice:sc

Encls:

cc: Mining Recorder  
Kirkland Lake, Ontario



2.5463

E.M.

E.M.

E.M.

L-511688

✓

L-532831

✓

L-548647

✓

89

✓

32

✓

48

✓

90

✓

33

✓

49

✓

523194

✓

34

✓

548651

✓

532831

✓

548643

✓

52

✓

22

✓

44

✓

548653

✓

23

✓

45

✓

24

✓

46

✓

D.K.

McGarry Twp.

THE TOWNSHIP OF

# McFADDEN

DISTRICT OF  
TIMISKAMING

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

PROVINCE OF QUEBEC

## LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
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	C.

## NOTES

400' Surface rights reservation around all lakes and rivers.

L.O. 12010 shown thus: —

Areas withdrawn from staking under Sect 4 of the Mining Act, 1950

No.	File	Date	Disposal
15	W 52/74 142124	16/10/74	S.R.
16	W 11/79 188522	19/6/79	S.R. & M.R.

### SAND and GRAVEL

MIN. SAND AND GRAVEL RESERVE 3G-13

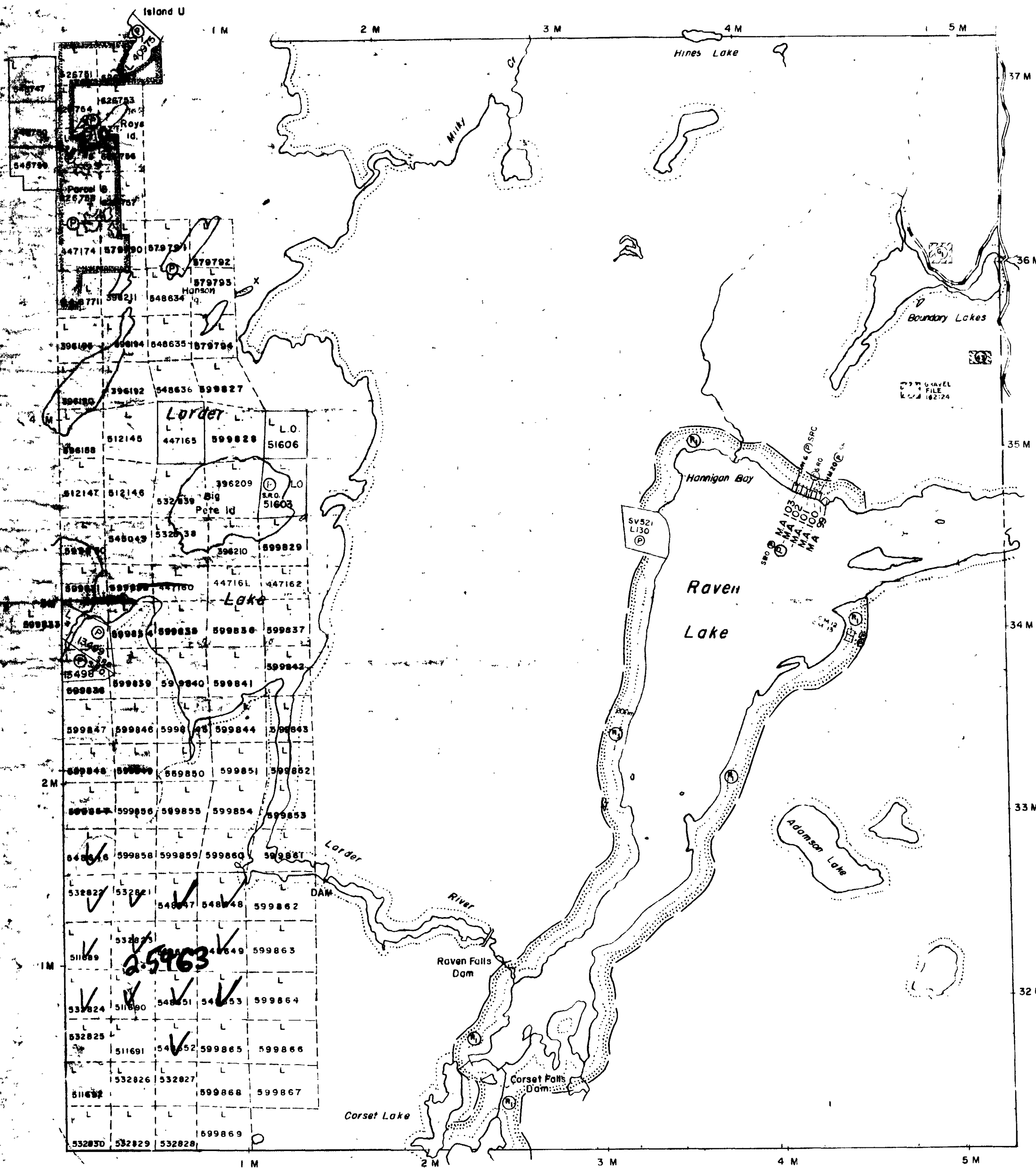
DATE OF ISSUE

JUL 25 1983

Ministry of Natural Resources  
TORONTO

PLAN NO - M.368

MINISTRY OF NATURAL RESOURCES



atray Twp.



32D045E0000 2.5463 MCFADDEN

200

McGarry Twp.

THE TOWNSHIP OF

# McFADDEN

DISTRICT OF  
TIMISKAMING

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

## LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
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	C.

## NOTES

400' Surface rights reservation around all lakes and rivers.

L.O. 12010 shown thus:

Areas with interest from staking under Section 4 of the Mining Act (P.O. 12010)

No.	Date	Date	Disposition
Ⓟ	W 52/74	142124	15/10/74 S.R.O.
Ⓛ	W 11/74	88522	19/6/74 S.R.O.

### SAND and GRAVEL

Ⓛ SAND and GRAVEL RESERVE 3-15

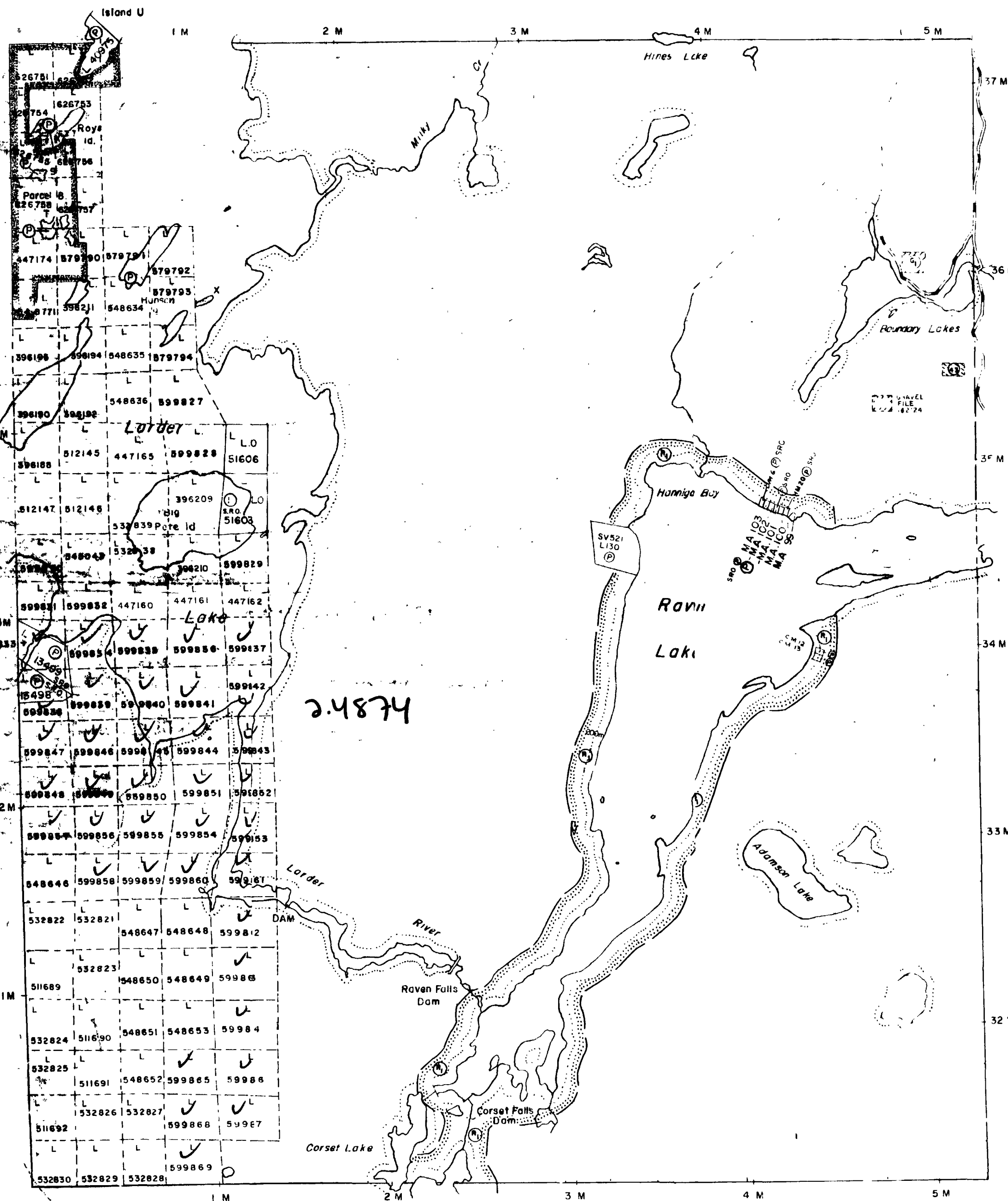
DATE OF ISSUE

JAN - 6 1983

Ministry of Natural Resources  
TORONTO

PLAN NO - M.368

MINISTRY OF NATURAL RESOURCES



PROVINCE OF QUEBEC

Ratray Twp.



320848E0000 2.5463 MCFADDEN

McVITTIE TWP. M-370

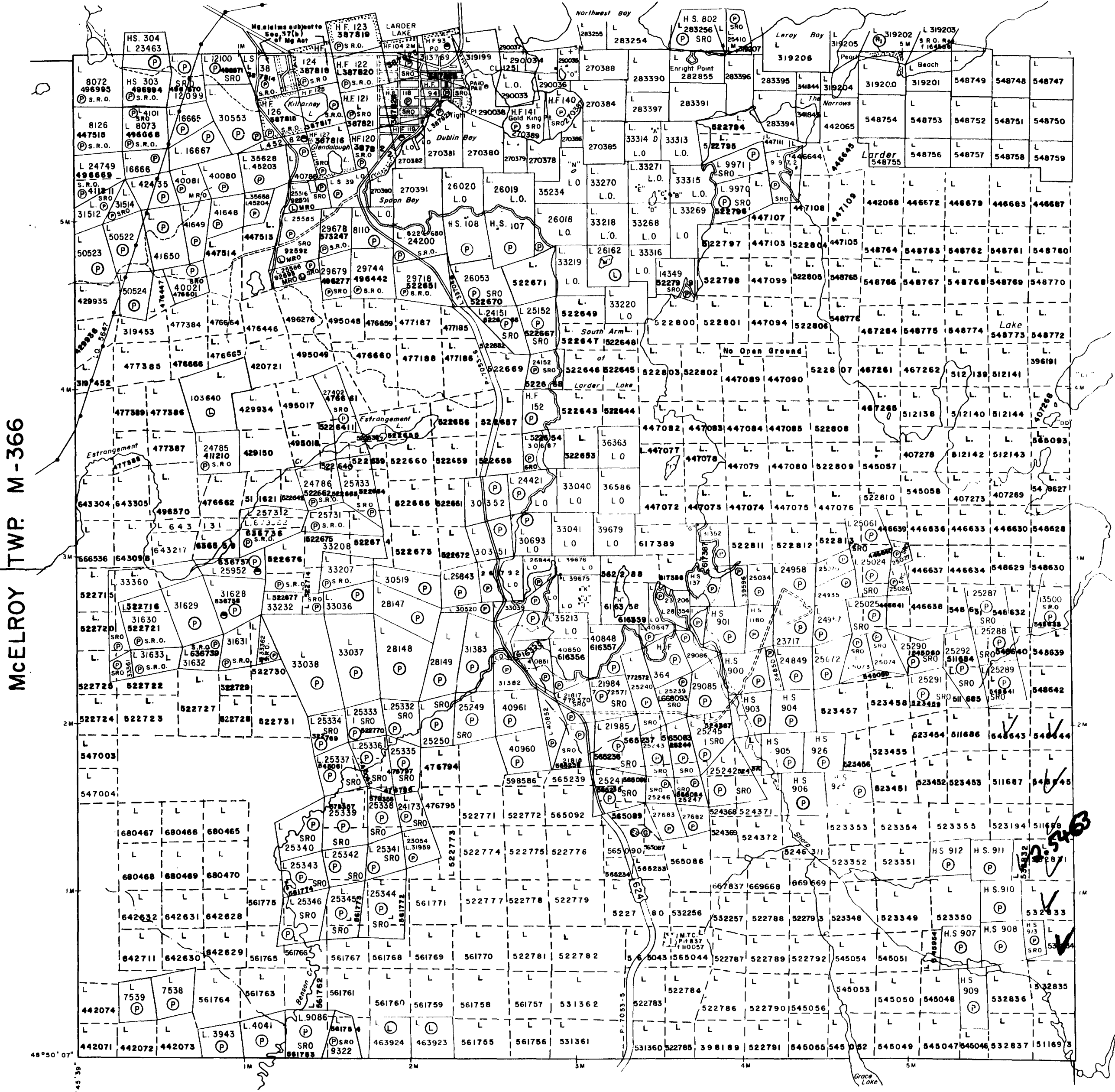
THE TOWNSHIP OF

HEARST

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH 40 CHAINS




LEGEND

- PATENTED LAND ● or (P)
- 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 19282

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

- (Q) QUARRY PERMIT

Areas withdrawn from staking under Section 43 of the Mining Act (RSO1970)

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

DATE OF ISSUE  
JUL 25 1983  
Ministry of Natural Resources

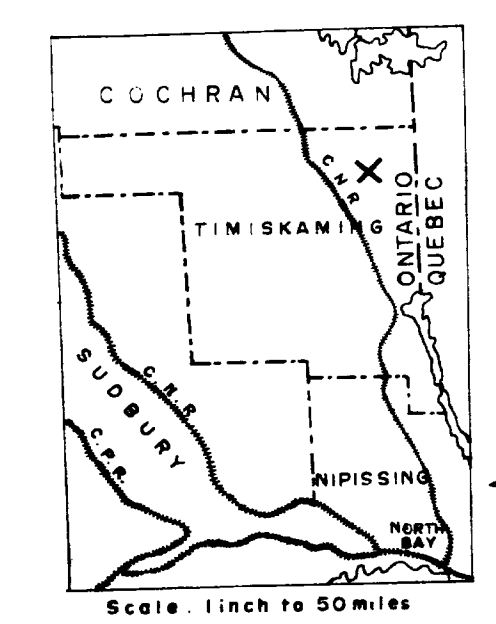
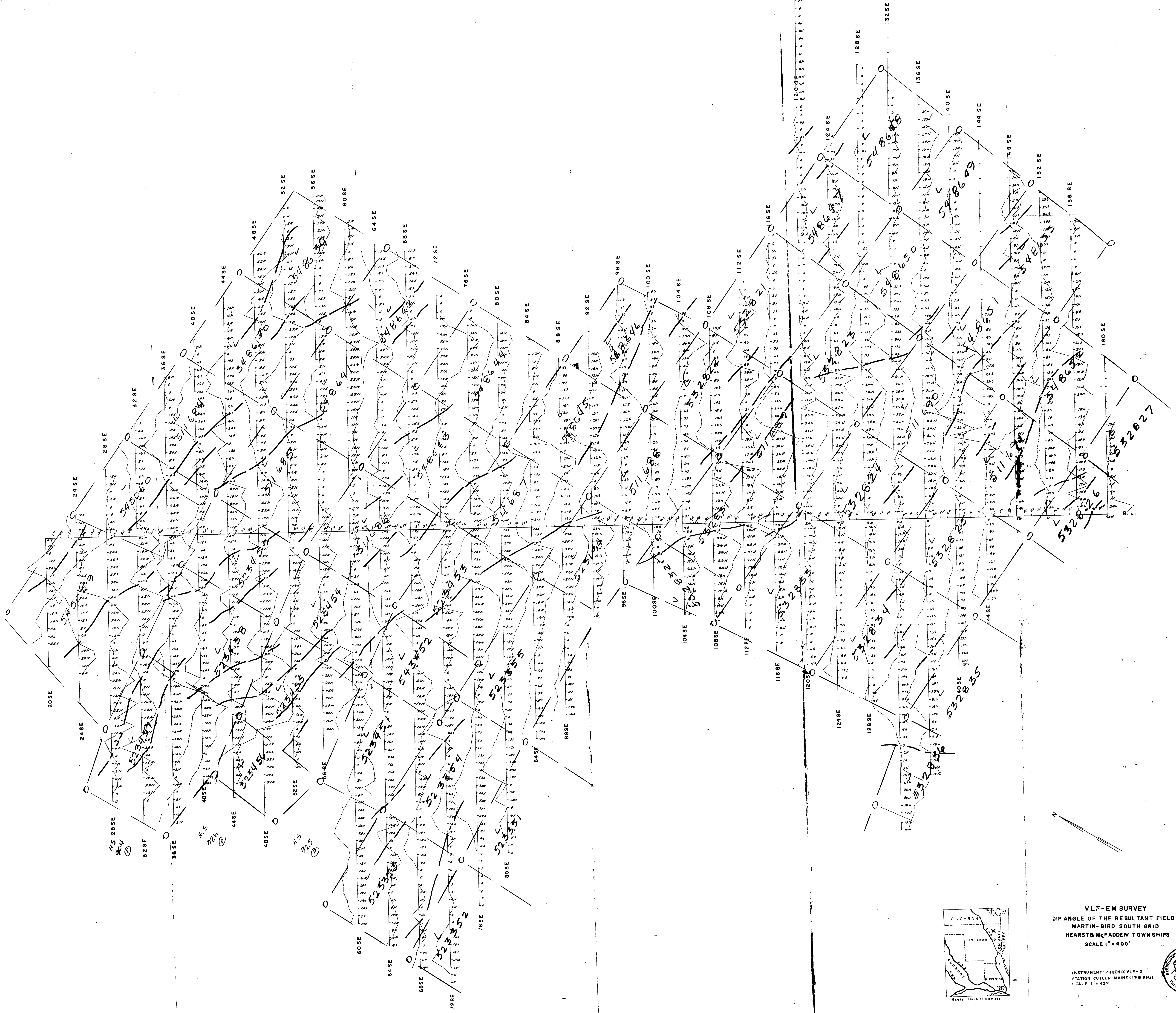
PLAN NO. M-354

ONTARIO  
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

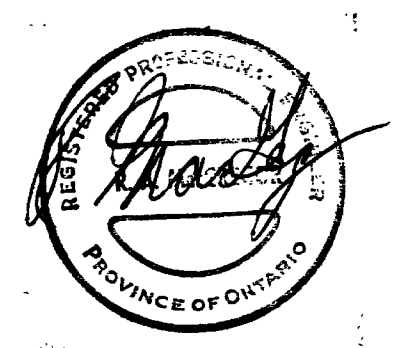


SKEAD TWP. M-387



VLF - EM SURVEY  
 DIP ANGLE OF THE RESULTANT FIELD  
 MARTIN-BIRD SOUTH GRID  
 HEARST & FADDEN TOWNSHIPS  
 SCALE 1" = 400'

INSTRUMENT: PHOENIX VLF-2  
 STATION: CUTLER, MAINE (17.8 NHZ)  
 SCALE 1" = 40'



25463

