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Introduction

PROJECTS UNIT

A VLF-EM survey was carried out in October, 1973, June and July 1974 over lines previously cut for a magnetometer survey. Re-cutting of lines was necessary in the easterly part of the property.

Location, Access and Ownership

The property is located in lots 1 and 2 Concession 6 of Catherine and Skead townships, District of Temiskaming, Ontario. It comprises 18 claims numbered L341819-341836 inclusive. The claims are recorded in the name of R. A. MacGregor, 134 Palace Drive, Sault Ste. Marie, Ontario. Access is by logging roads leading north from Highway 624 approximately 9 miles south of Larder Lake, Ontario

Previous Exploration

In previous work, ground and airborne magnetic surveys have been carried out, with a little bulldozer stripping near the McElroy-Catherine boundary. Extensive areas of drift have limited conventional prospecting in the past. The area is largely covered by sand plains in the western part and swamp in the eastern part.

Geology

Large areas of the property are covered by drift which is over 100 feet thick in the south-west part. Outcrop is mostly serpentinized peridotite with some mafic volcanics. The serpentinized peridotite occurs as north-west trending sills in the mafic volcanics. Sills are up to 700 feet wide (from magnetic data) and may be locally displaced by north-east trending faults.

Survey Procedure

A base line through the centre of the claims in the western part with north-south cross lines at 400 intervals had been previously cut and was re-used. Tie lines had also been run for control. In the eastern part recutting and rechaining was necessary in the swampy areas which were overgrown.

A VLF-EM survey was carried out using a Crone Radem instrument set to read the signal from the Cutler, Maine station (17.8 kH₂). Readings were taken at 100 foot intervals using the procedure outlined in Appendix I. A looping method was used in taking readings. A base station was selected and readings taken along lines describing a loop, arriving back at the starting base station. The time was noted for each station. Subsequent loops were then tied to previous readings.

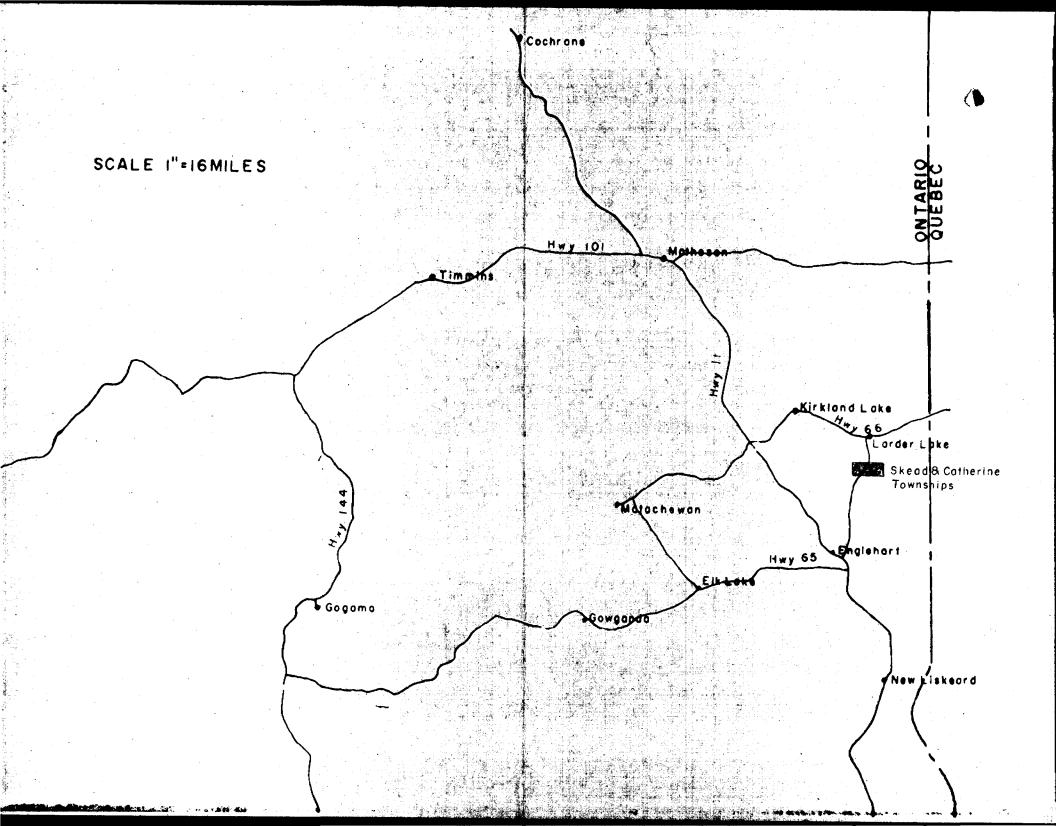
Results and Conclusions

The Radem survey shows a number of cross-overs. Most are weak and fairly short. A conductor crossing the centre of claim L341833 approximately follows the south edge of the 3000 gamma magnetic contour. Two fairly strong cross-overs at 15 + 70S on Base Line 'L' and 12 + 50N on line 4E may be connected, giving a conductor with a trend north of east. These two conductors, both covered by thick overburden, are worth further checking.

Respectfully submitted

September 29,1974

R.A. MacGregor, P.Eng.



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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.

Township or Area Catherine Claim holder(s) R.A. MacG:		MINING CLAIMS TRAVERSED
, ,	Dr. Sault Ste. Marie. Ont	List numerically
Author of Report Address	above	(prefix) (number)
Total Miles of Line cut	(linecutting to effice) Sept. 25-26/74	L 341821 //
SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical DAYS	L 341823 /
ENTER 40 days (includes line cutting) for first	Electromagnetic 20 0 - Magnetometer	L 341824
survey. ENTER 20 days for each additional survey using same grid.	-Radiometric	1 341826 / 1 341827 /
MagnetometerElectroma	ovision credits do not apply to airborne surveys) gnetic Radiometric r days per claim)	T. 341820 /
DATE: Sept. 30/74 SIGN	NATURE: Author of Report or Agent	L 341831
PROJECTS SECTION Res. Geol. Previous Surveys 2-13/16 ma	Qualifications 2.1102	
40 days 63, 1370 airbor	~	L 341835
Checked by		J. 341836
GEOLOGICAL BRANCH		
GEOLOGICAL BRANCH		
Approved by		TOTAL CLAIMS 18

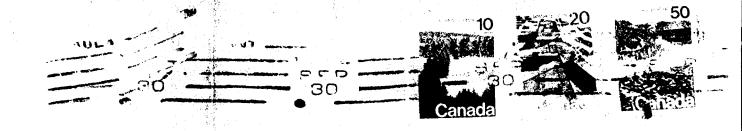
OFFICE USE ONLY

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS	
Number of Stations 893	Number of Readings 893
Station interval 100 ft.	
Line spacing 400 ft.	
Profile scale or Contour intervals 1 = 20°	
(specify for e	each type of survey)
MAGNETIC	
Instrument	
Accuracy - Scale constant	
Diurnal correction method	
Base station location	
ELECTROMAGNETIC	
Instrument Crone Radem	
Coil configuration Not applicable	
Coil separation Not applicable	그는 그는 그는 그는 그는 그는 그는 그는 그는 그리고 있는 그리고 있는 그리고 있는 그는 그리고 있는 그리고 그리고 있는 그리고
Accuracy ±-40	
Method: Fixed transmitter	☐ Shoot back ☐ In line ☐ Parallel line
Frequency Cutler, Maine 17.	8 KHS
Parameters measured Dip angle of the R	pecify V.L.F. station)
GRAVITY	
Instrument	
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Corrections made	
Base station value and location	
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INDUCED POLARIZATION - RESISTIVITY	
Instrument	
Time domain	그는 그
Frequency	
Power	하는 아이는 그는 그는 그는 사람들이 아이들이 있다. 그는 경우 그들이 아이들이 가는 그를 하는 것이 되었다. 그를 하는 것이 없는 것이 없는 것이 없는데 함께 함께 모든 모든 모든 기계를 하는데 하는데 하는데 되었다.
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Electrode spacing	
Type of electrode	

GREGOR, P. ENG. PALACE DRIVE STE, MARIE, ONT.



2.1581

J.R. McGinn, Director Lands Administration Branch, Whitney Block, Room 1617, Queen's Park, TORONTO, Ontario M7A 1X1

OCT 2 1974
PROJECTS UNIT



NOTES

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

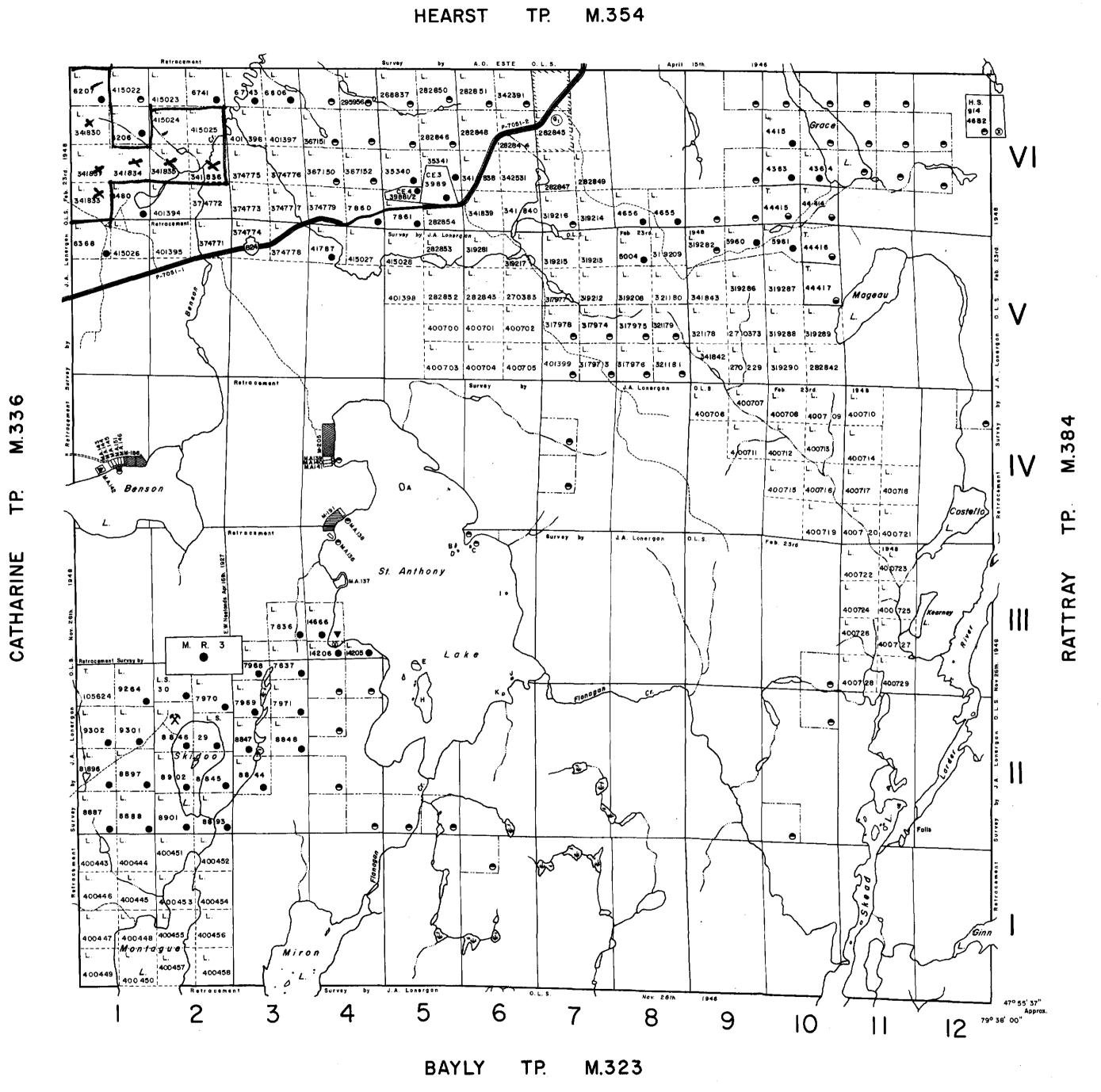
All unpatented mining claims accepted subject to survey, Section 118 of the Mining Act (R.S. O. 1970).

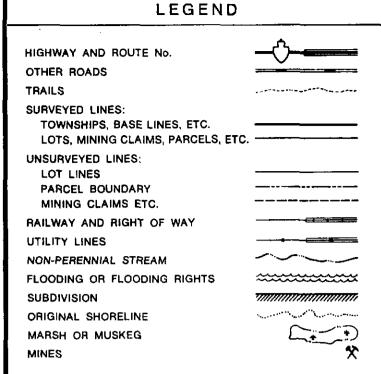
SAND and GRAVEL

M.T.C. PIT

DATE OF ISSUE OCT - 3 1974

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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
ORDER-IN-COUNCIL OC
RESERVATION
CANCELLED
SAND & GRAVEL

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TOWNSHIP

DISTRICT

2.1581

TIMISKAMING

MINING DÍVISION

LARDER LAKE



Ministry of Natural Resources

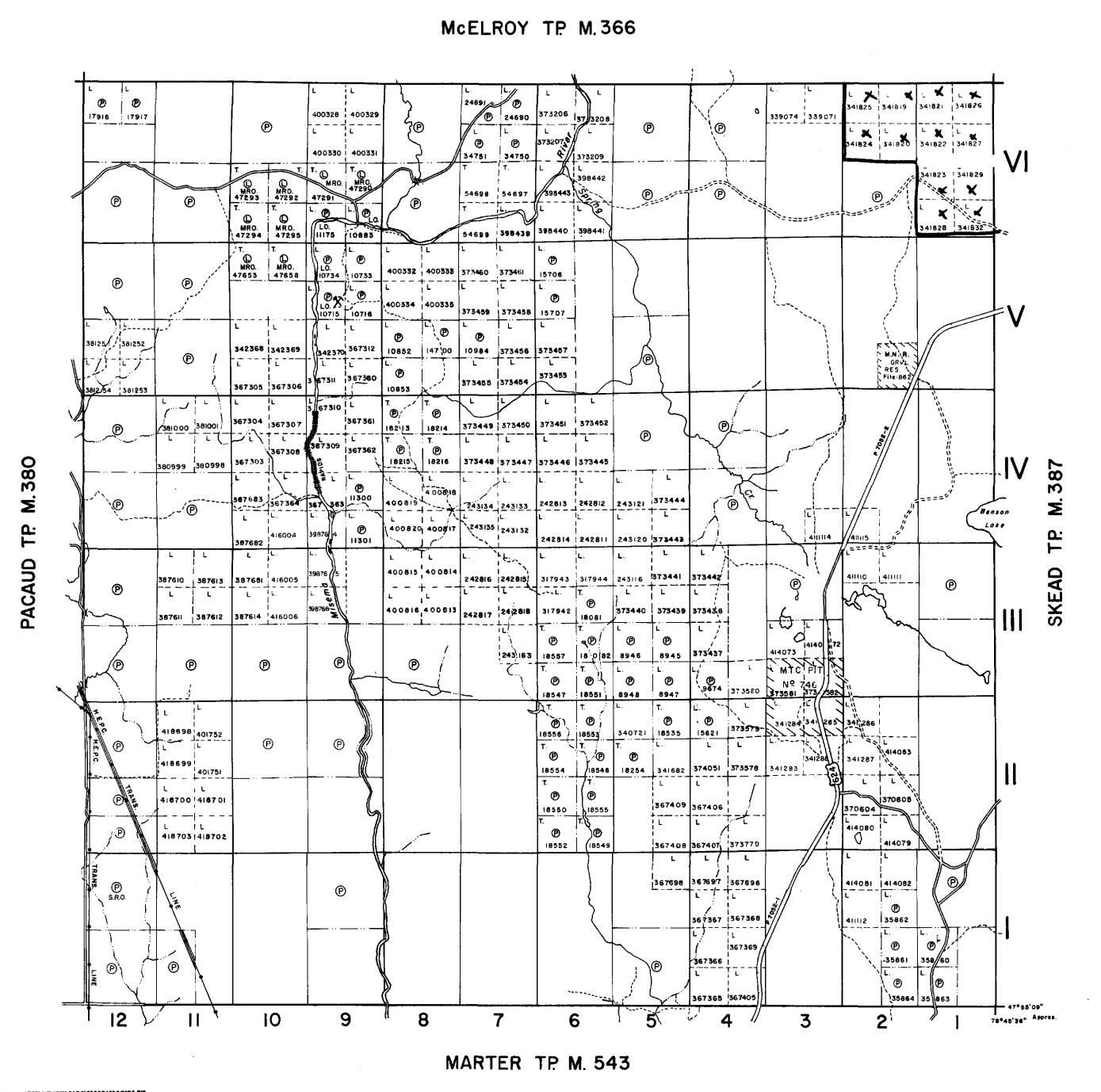
Surveys and Mapping Branch

10/4/74 Whitney Block Queen's Park, Toronto

M.387



A.T.V.



NOTES

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

MINING LANDS # DATE OF ISSUE

OCT = 3 1974

MINISTRY
OF NATURAL RESOURCES

LEGEND

PATENTED LAND

PATENTED FOR SURFACE RIGHTS ONLY

LEASE

LICENSE OF OCCUPATION

CROWN LAND SALES

LOCATED LAND

CANCELLED

MINING RIGHTS ONLY

SURFACE RIGHTS ONLY

HIGHWAY & ROUTE NO.

ROADS

TRAILS

RAILWAYS

POWER LINES

MARSH OR MUSKEG

MINES

CATHARINE

TOWNSHIP OF

*used only with summer resort locations or when space is limited

DISTRICT OF
TIMISKAMING 2,1581

LARDER LAKE

SCALE: 1 INCH = 40 CHAINS (1/2 MILE)

MINING DIVISION

DATE JUNE '72 PLAN NO.

M. 336

M.R.O.

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPERS BRANCH

320045E0028 2.1581 SKEAD

