010

#### REPORT ON VLF-EM SURVEYS

#### SKEAD AND HEARST TOWNSHIPS, ONTARIO

#### Introduction

A VLF-Em survey was carried out in two areas in Skead and Hearst Township. The results are shown on the enclosed plans.

#### Location, Access and Ownership

The claims covered by the survey are located in lots 4 and 5 Concession 6 and lots 8 and 9 Concession 6 Skead township and the south-central boundary of Hearst township. The claims are numbered L 476671 to 476677; L 476687 to 476688 inclusive and L 476679. They are recorded in the name of Lucien Lacasse, Larder Lake, Ontario.

Access can be had from Highway 624 about 7 miles south of Larder Lake, Ontario and from old logging roads leading from the highway.

#### Previous Exploration

There are a number of pits scattered throughout the claims on which no records are available. Two diamond drill holes were also located during the survey for which no records have been filed with the Provincial Geologist's office. During 1972 Noranda Mines Ltd. cut lines and ran V.L.E.M. and Magnetometer surveys over the easterly claim block. These lines are now almost completely overgrown.

## Geology

The property is underlain by a volcanic sequence of rocks, overlain and in some places interbedded with sediments. The volcanic and sedimentary rocks are cut by later intrusive dykes and stocks.

#### Survey Procedure

A VIF-EM survey was carried out using a Crone Radem instrument set to the signal from Annapolis, Maryland (21.4 KHz). Readings were taken at 100 foot intervals using the procedure outlined in Appendix 1. The looping method was used for control of variation, the same as described for the magnetometer survey excepting that the time was noted for each station. an attempt was made to follow the previously cut lines, however these are largely overgrown. Pace and compass was used where old lines were not visible.

## Survey Procedure (Continued)

On the westerly 2 claims, lines were run by pace and compass south from the south boundary of 2 surveyed claims and along the surveyed concession line by pace and compass.

#### Conclusions

On the two westerly claims a strong anomaly crosses the extreme north-east corner. This is a continuation of a strong anomaly found to the south-east which is overburden covered and unexplained, but may be a fault.

The easterly group of claims show a large number of crossovers, some of which coincide with the V.L.E.M. anomalies found by Noranda; some are offset from the Noranda anomalies while others did not show on the V.L.E.M. survey. Both graphite and sulphides have been noted in the area. As well, some of the VLF-EM anomalies may be due to topographic effects. Several rock outcrops are quite steep leading into swamps.

Further follow-up is indicated by the presence of sulphides although some of the anomalies will undoubtedly prove to be graphite.

Respectfully submitted

September 18, 1978

R.A. MacGregor, P. Eng.



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## Ministry of Natura

#### **GEOPHYSICAL – GEOLOGIC** TECHNICAL DATA



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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.

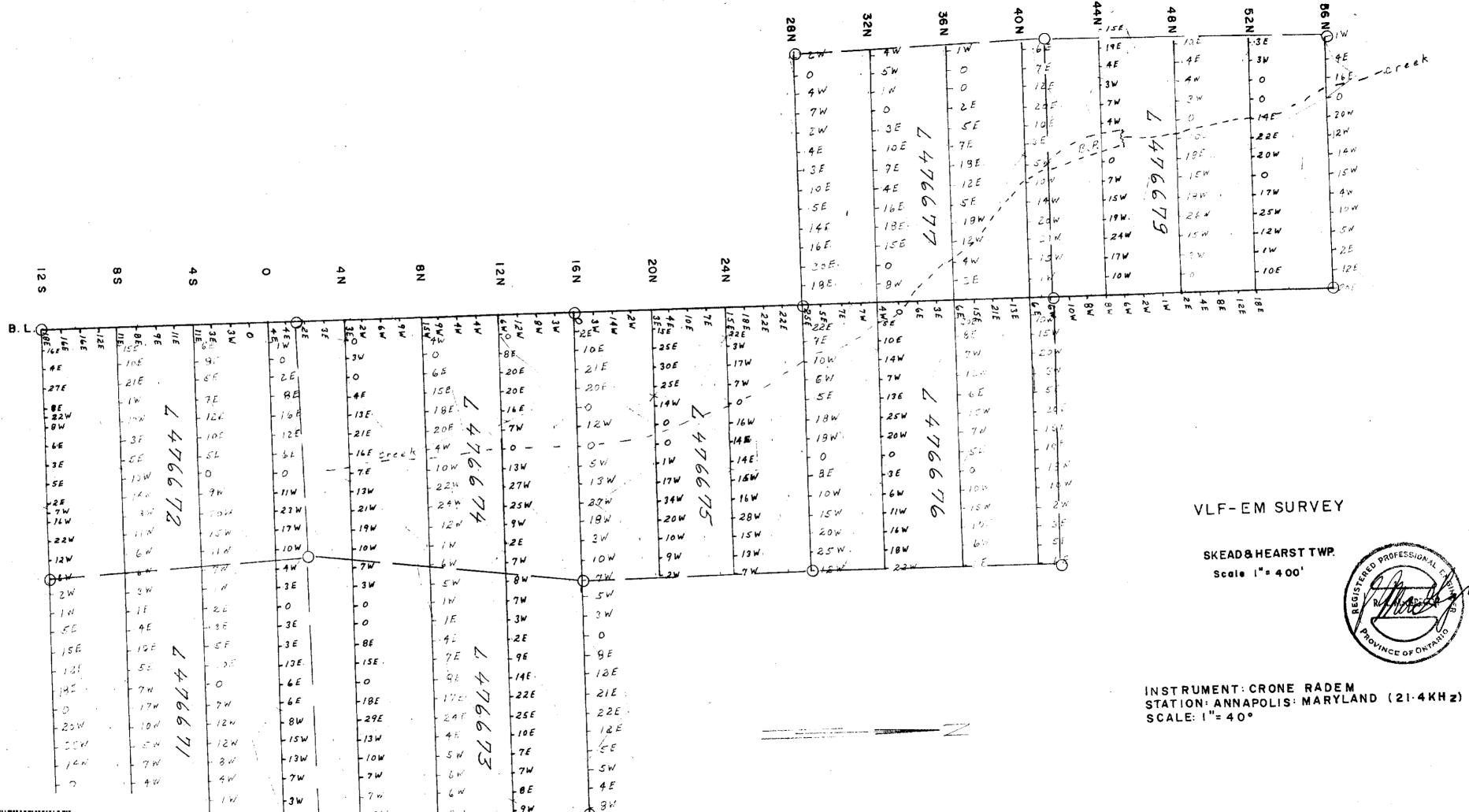
Type of Survey(s) VIF-EM				
Township or Area Skead	MINING CLAIMS TRAVERSED			
Claim Holder(s) L. Lacass		MINING CLAIMS TRAVERSED  List numerically		
• •		L 476674 (prefix) (number)		
Author of Report R.A. Mac	L 476675			
Address of Author 134 Palace	on Drive, Sault Ste. Marie			
Covering Dates of Survey June	September, 1978	L 476676		
Total Miles of Line Cut	in the second of	L 476677		
		L 476687		
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim	L 476688		
CREDITS REQUESTED	Geophysical	L 476679		
ENTER 40 days (includes	-Electromagnetic 20			
line cutting) for first	-Magnetometer	L.476671		
survey.	-Radiometric	L 476672		
ENTER 20 days for each additional survey using	-Other	L 476673		
same grid.	Geological			
	Geochemical			
	rovision credits do not apply to airborne surveys)			
MagnetometerElectrom	agneticRadiometricer days per claim)			
	Made			
DATE: Sept. 18, 1978 SIG	NATURE: Author of Report of Agent	••••••		
L.D.				
Res. Geol. Qu	alifications 2. 1102 + m  This file			
Previous Surveys	ma que			
File No. Type Date	Claim Holder			
4				
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		TOTAL CLAIMS 10		

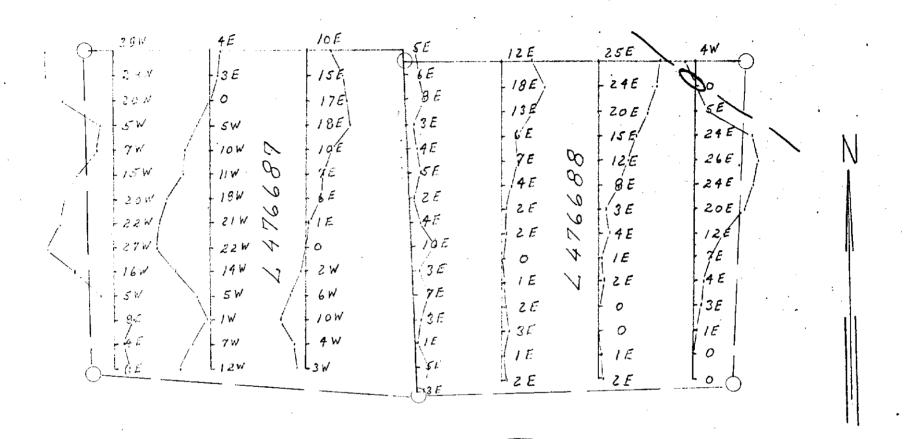
## GEOPHYSICAL TECHNICAL DATA

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

Number of Stations_			_Number of Readin		
Station interval	100 ft				
Profile scale	1" = 400				
and the control of the second of	en e				· .
Instrument				* . *	
Accuracy - Scale	constant		· · · · · · · · · · · · · · · · · · ·		
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Coil separation	N/A			<del></del>	
Accuracy	∓ <sup>r</sup> o	· · · · · · · · · · · · · · · · · · ·		12 12 2	
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Frequency	napolis Maryland (21,	4 KHz)	.L.F. station)		
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INDUCED POLARIZATION





INSTRUMENT: CRONE RADEM

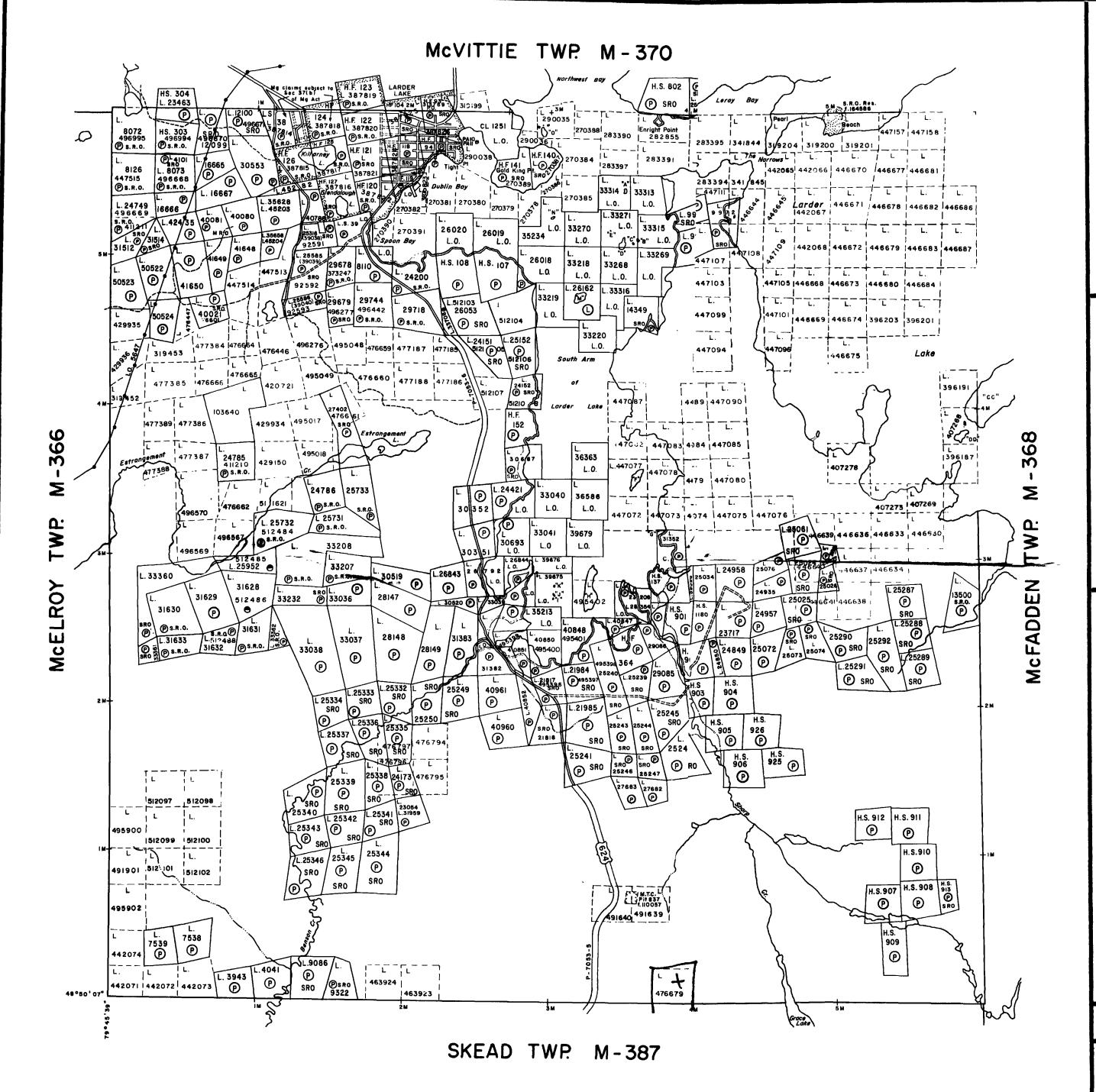
STATION: ANNAPOLIS, MARYLAND (21.4 KH

SCALE: 1"= 40°

VLF-EM SURVEY
LOTS 586 CONCESSION 6
SKEAD TOWNSHIP
Scale !"# 400'



32004SE0282 2.2807 HEARST



THE TOWNSHIP

OF

2.2807

# **HEARST**

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH - 40 CHAINS

## LEGEND

PATENTED LAND	or <b>(P</b> )
CROWN LAND SALE	C.S.
LEASES	<b>(</b> )
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
ROADS Improved roads	
IMPROVED ROADS	
IMPROVED ROADS KING'S HIGHWAYS	
IMPROVED ROADS KING'S HIGHWAYS RAILWAYS	- <del>-</del>
IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES	
IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES MARSH OR MUSKEG	
IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES MARSH OR MUSKEG MINES	,,

## 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  $\frac{1274-8894025}{12}$  subject to Sec. 37 (b) of the Mining Act (R.S.O 1970).

DATE OF ISSUE

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SURVEYS AND MAPPING BRA!:CH

PLAN NO. M - 354

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MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

## NOTES

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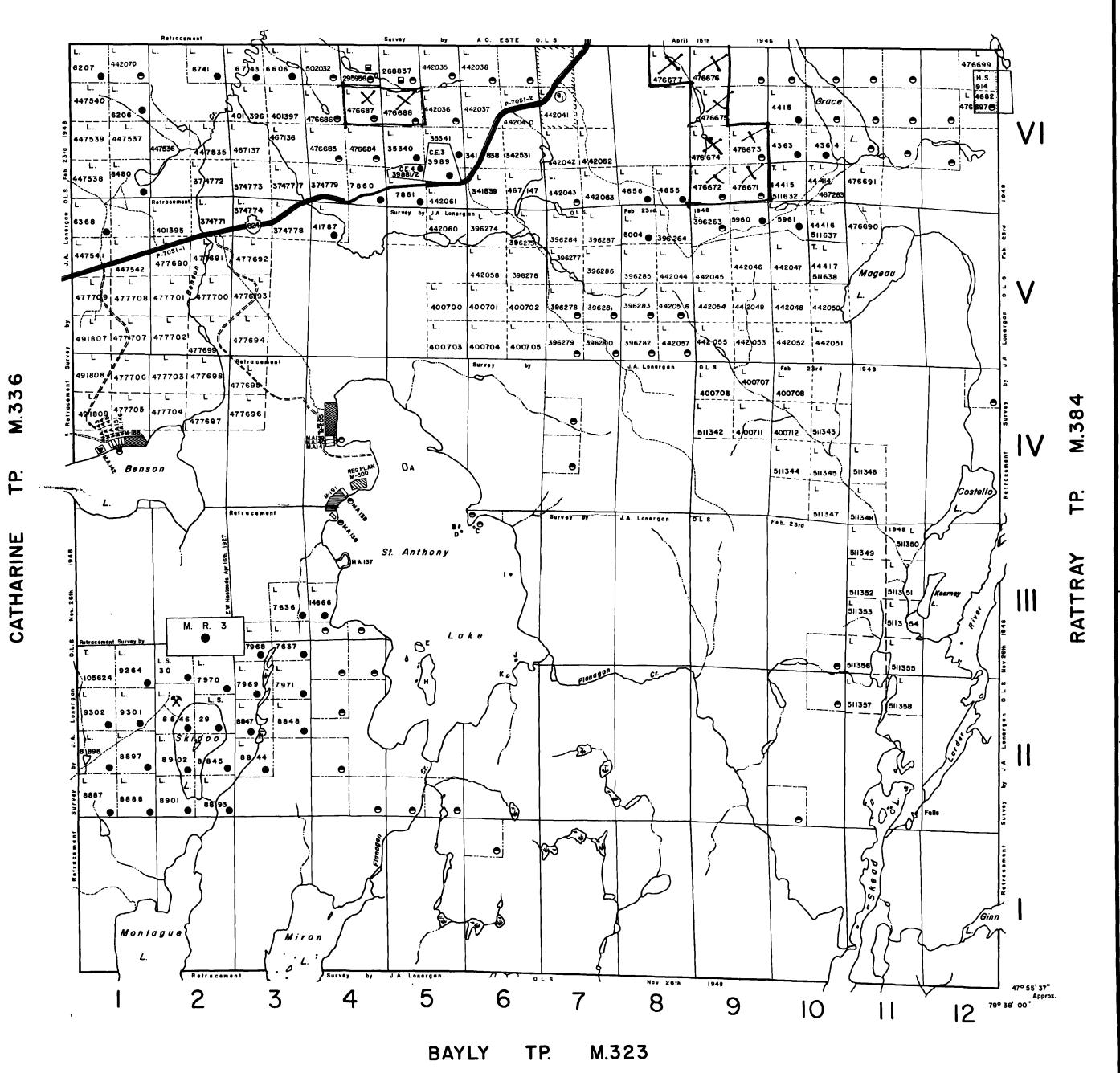
All unpatented mining claims accepted subject to survey, Section IIB of the Mining Act (R.S.O. 1970).

SAND and GRAVEL

M.T.C. PIT

No. 1230

DATE OF ISSUE
SEP 29 1978
SURVEYS AND MAPPING
BRASCH



TP. M.354

HEARST

LEGEND HIGHWAY AND ROUTE No. OTHER ROADS 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

## 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	

SCALE: 1 INCH = 40 CHAINS

ACRES

HECTARES

16

40

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TOWNSHIP

2.2807 VE AD

DISTRICT

TIMISKAMING

MINING DIVISION

LARDER LAKE

r.D



Ministry of Natural Resources

Ontario S

Surveys and Mapping Branch

Whitney Block
Queen's Park, Toronto

M.387

