



42A05NW0005 2.13511 MASSEY

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SEP 06 1990

MINING LANDS SECTION

GROUND MAGNETOMETER SURVEY

AND

VLF EM 16 SURVEY

FOR

GORDON MAGEAU - RENE DUMONT PROPERTY

WHITESIDES & MASSEY TOWNSHIPS

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

Timmins, Ontario
August, 1990

C. D. MacKenzie
Consulting Geologist

Qual. 63.1225



42A05NW0005 2.13511 MASSEY

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MAPS

(Back Pocket)

Map A	Magnetic Survey	1:2500
Map B	VLF EM Survey	1:2500

INTRODUCTION

The following report describes the results of a ground magnetometer survey and VLF EM 16 survey for Gordon Mageau, Wallingford Road, Timmins, Ontario and Rene Dumont, 69 Bloor St., South Porcupine, Ontario.

The field work was completed August 17, 1990 and the report was completed on August 20, 1990.

PROPERTY LOCATION AND ACCESS

The Mageau - Dumont property is located in Whitesides and Massey Townships, Porcupine Mining Division, Ontario.

The property is accessible from the City of Timmins by four-wheel drive vehicles. The claim group can be reached by travelling West along Highway 101 for a distance of 20 miles, then turning right and travelling North along the Whitesides gravel road for a distance of eight miles to the southern boundary of the claim group.

PROPERTY DESCRIPTION

The property consists of 13 contiguous claims numbered as follows:

- | | | |
|---------|---------|---------|
| 1116638 | 1116639 | 1116640 |
| 1116613 | 1116635 | 1116641 |
| 1116646 | 1116642 | 1116643 |
| 1116637 | 1116636 | 1116914 |
| 1116915 | | |

LINE CUTTING

The grid was chained utilizing the metric system. Grid lines were established in an East-West direction at 100 metre intervals with pickets at 25 metre intervals.

The North-South baseline 0 + 00 was established on line 8 + 00S as required to control the grid. Lines were cut East-West from this baseline at 100 metre intervals as previously stated.

A total of 14.5 miles of picket lines were cut including one mile of baseline or a total of 23.33 kilometres.

GROUND MAGNETOMETER SURVEY

The ground magnetometer survey was completed utilizing a proton magnetometer Geometrix Model G-816 capable of reading total field values to an accuracy of ± 1 gamma. Base stations were established along the baseline. Diurnal variation was corrected by tying in to the base stations every 60 minutes.

A total of 1,452 readings were taken. The operator was Mike Caron of 229 Ruth St., South Porcupine, Ontario.

VLF EM 16 ELECTROMAGNETIC SURVEY

The electromagnetic survey was carried out utilizing a Geonics EM 16, VLF EM receiver. The unit measures the vertical In-phase component (tangent of the tilt angle of the polarization ellipsoid) and the vertical Out-of-phase component (the short axis of the polarization ellipsoid compared to the long axis of the secondary field generated in the vicinity of the conductors).

VLF EM 16 ELECTROMAGNETIC SURVEY Cont'd

The transmitter station used for the survey was NSS Annapolis with a frequency of 24.0 KHz. The azimuth to the station NSS is 150°. All readings were taken facing East.

A total of 875 readings were taken. The operator was Mike Caron of 229 Ruth St., South Porcupine, Ontario.

PROPERTY GEOLOGY

The property geology is partially shown on the Preliminary Geology Map No. P-488 of Whitesides Township on a scale of 1 inch = $\frac{1}{4}$ mile.

The property is chiefly underlain by a complex intrusive ranging from a white anorthosite to a more mafic gabbro and lenses of ultramafic rocks. This intrusive covers in excess of a 100 square miles in Whitesides and Massey Townships.

A few North-South diabases are known to intrude the gabbro complex. Copper and nickel occurrences are present on the claim group under discussion.

A gravity high over the whole area appears to indicate ultramafic rocks at depth. Local magnetic highs are mostly due to disseminated pyrrhotite in various phases of the gabbro. Copper mineralization is also present within the mineralized zones both as disseminated chalcopryrite and small stringers of massive chalcopryrite.

RESULTS OF THE GROUND MAGNETOMETER SURVEY

The results of the magnetometer survey for the Mageau-Dumont property in Whitesides and Massey Townships are shown on a map in the back pocket of this report. The map is on a metric scale of 1:2500.

The major magnetic anomalies are designated on the map by the letters A to H inclusive.

ANOMALY A appears to be a North-South striking magnetic high caused chiefly by disseminated pyrrhotite in various phases of gabbro, although a narrow diabase dyke is suspected of being part of this magnetic feature, pits on high magnetic sections have shown mineralized zones of magnetic disseminated pyrrhotite in gabbro.

ANOMALY B is a North-South striking magnetic low between two magnetic highs.

ANOMALY C is a highly magnetic North-South feature again suspected of being diabase.

ANOMALY D is a large low between two North-South magnetic features C and E.

ANOMALY E does not appear to be diabase and may be due to disseminated pyrrhotite in gabbro.

ANOMALY F is also likely due to the presence of a mineralized gabbro or diorite.

ANOMALY G is known to be outlining a narrow North-South striking diabase dyke.

RESULTS OF THE GROUND MAGNETOMETER SURVEY Cont'd

ANOMALY H appears to be shown on the geology map as a magnetic gabbro (undifferentiated). The presence of VLF conductors in this area trending North-South with this feature may indicate a number of mineralized zones within the gabbro complex.

RESULTS OF THE VLF SURVEY

ANOMALY A is a 100 metre long VLF anomaly extending off the claim group to the North. This anomaly lies alongside of a weak magnetic high that may indicate disseminated pyrrhotite. A strong out-of-phase component is present.

ANOMALY B is a 700 metre long VLF anomaly open at both ends extending to the North of the present property and open to the South extending on to patented claim P-2474.

ANOMALY B-1 is a weak 400 metre long VLF anomaly extending in to a magnetic high with a weak out-of-phase component.

ANOMALY B-2 is a weak VLF anomaly crossing a magnetic high and may be a branch of Anomaly C.

ANOMALY C is a weak VLF anomaly 1,000 metres in length and has very little out-of-phase. This anomaly may be outlining a buried valley in an area of low magnetics.

ANOMALY D is a weak VLF anomaly 300 metres in length with a fair positive response on the out-of-phase. This anomaly is in an area of background magnetics.

ANOMALY E is a one-line response with a good out-of-phase component lying near the North boundary of the present claim group.

RESULTS OF THE VLF SURVEY Cont'd

ANOMALY F is a weak 100 metre long VLF anomaly on the western edge of a magnetic high.

ANOMALY G is a curving weak VLF anomaly along the eastern contact of a North-South striking magnetic high.

ANOMALY H is a one-line VLF response in a magnetic low.

ANOMALY I is a strong one-line VLF response in a magnetic low just North of a magnetic high. A strong positive out-of-phase response is present.

ANOMALY J is a North-South striking VLF, 700 metres in length with a branching J-2 anomaly 400 metres in length along the eastern edge of a magnetic high. Anomaly J appears to be in an area 100 gammas above background.

ANOMALIES K, L and M are strong VLF anomalies 300 metres in length, all extending into patented claim P-2474 and still open to the South of the present claim group.

These anomalies lie in an area 100 to 200 gammas above background to the West of high magnetics caused by mineralization in the gabbro consisting of nickel-bearing disseminated pyrrhotite.

ANOMALY N is a strong VLF anomaly, 400 metres in length crossing through magnetic highs and staying in magnetic lows.

ANOMALY O is 600 metres in length and also crosses through a magnetic high.

RESULTS OF THE VLF SURVEY Cont'd

ANOMALY P on line 7 + 00S appears to be due to pyrrhotite mineralization in gabbro and may have significant nickel and copper values with same. Anomaly P is 300 metres in length and extends off the property to the South.

ANOMALY Q lies in a beaver pond and is likely the extension of anomalies J-1 and J-2. Anomaly Q extends off the present claim group to the South. A strong response on the out-of-phase indicates two conductors at this location.

ANOMALY R is 500 metres in length and appears to cut through a North-South magnetic high following a magnetic low.

ANOMALY S is a 600 metre long VLF anomaly in a 100 gamma magnetic high and may be following a mineralized zone in the gabbro.

ANOMALY T is 800 metres in length and lies within a North-South trending magnetic high. This high appears to be caused by a mineralized zone in the gabbro.

ANOMALY U is a parallel VLF anomaly to Anomaly P and may indicate the eastern edge of a broad mineralized zone.

ANOMALY V is open to the North and to the South-East. Anomaly V is a one-line anomaly located on line 1 + 00S and lies on a magnetic high and appears to be due to pyrrhotite mineralization.

CONCLUSIONS AND RECOMMENDATIONS

The magnetometer survey has outlined a series of broad bands of high magnetics trending North-South across the claim group, some of which are outlining diabase dikes; others appear to represent bands of disseminated pyrrhotite within the gabbro complex.

Since the preliminary map of Whitesides shows unmapped outcrop areas within the claim group, it is recommended that geological mapping and "plugger dust" sampling of the rock ridges be carried out, tying samples and outcrops to grid lines.

Assaying the plugger dust for Au, Ni, Cu and silver should be carried out as a preliminary phase of exploration.

A Max-min survey is also recommended to check the VLF anomalies obtained during the present survey.

Local showings within the high magnetics have obtained grab samples ranging from 1% to 4% copper and .1 to .58% nickel. Gold values ranging from .01 to .04 ozs. per ton have also been reported from this property.

The gravity high over this area may indicate a more mafic unit at depth and adds interest to the nickel-copper potential of this claim group. Patented claims South of the claim group under discussion report assays up to 2.5% nickel.

Respectfully submitted,


C. D. MacKenzie

DOCUMENT No.
W 9006-60479



2.13511

900

Mining Act
Report of Work
(Geophysical, Geological and Geochemical)

Type of Survey(s) MAGNETICS AND VLF EM-16	Mining Division PORCUPINE	Township or Area WHITESIDES - MASSEY
Recorded Holder(s) Rene Dumont	Prospector's Licence No. M-23897	
Address 69 BLOOR ST. SOUTH-PORCUPINE ONTARIO		Telephone No. 235-5950
Survey Company		
Name and Address of Author (of Geo-Technical Report) CLIFF MCKENZIE		Date of Survey (from & to) 08 Day 08 Mo. 90 Yr. 17 Day 08 Mo. 90 Yr.

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	20
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P-	1116913				
P-	1116914				
P-	1116915				
P-	1116635				
P-	1116636				
P-	1116637				
P-	1116638				
P-	1116639				
P-	1116640				
P-	1116641				
P-	1116642				
P-	1116643				
P-	1116646				

Total miles flown over claim(s). _____

Date **AUGUST 27 1990** Recorded Holder or Agent (Signature) *[Signature]*

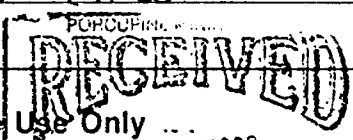
Total number of mining claims covered by this report of work. **13**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
MIKE CACON 229 LUTY ST PORCUPINE, ONTARIO PON 1C0

Telephone No. **235-8660** Date **AUGUST 27, 1990** Certified By (Signature) *[Signature]*



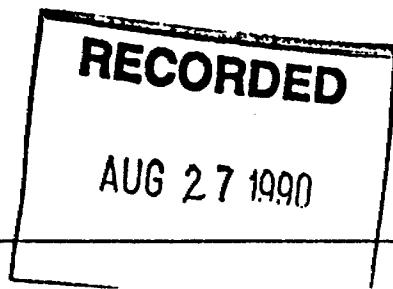
For Office Use Only

1780

Date Recorded **AUG 27 1990**

Date Approved as Recorded *see revised work statement*

Provincial Manager, Mining Lands *Robert Binkley*





Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
159 Cedar Street, 4th Floor
SUDBURY, Ontario
P3E 6A5

Telephone: (705) 670-7264
Fax: (705) 670-7262

Your File: W9006.60479
Our File : 2.13511

November 15, 1990

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
TIMMINS, Ontario
P4N 2S7

Dear Madam/Sir:

RE: Notice of Intent dated October 9, 1990 for Geophysical
(Electromagnetic and Magnetometer) Survey submitted on
Mining Claims P 1116913 et al in Whitesides & Massey Twp.

The assessment work credits, as listed with the above
mentioned Notice of Intent have been approved as of the above
date.

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

Yours sincerely

A handwritten signature in cursive script, appearing to read "R. C. Gashinski".

R. C. Gashinski
A/Provincial Manager, Mining Lands
Mines and Minerals Division

LJ/dvl
Enclosure

cc: Mr. W. D. Tieman
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Rene Dumont
South Porcupine, Ontario

Mike Caron
South Porcupine, Ontario



Recorded Holder
Rene Dumont

Township or Area
Whitesides & Massey Twp.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 20 _____ days Magnetometer _____ 40 _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" 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.	P 1116913 - 915 incl. 1116635 - 640 incl. 1116642 - 643 incl. 1116646

Special credits under section 77 (16) for the following mining claims

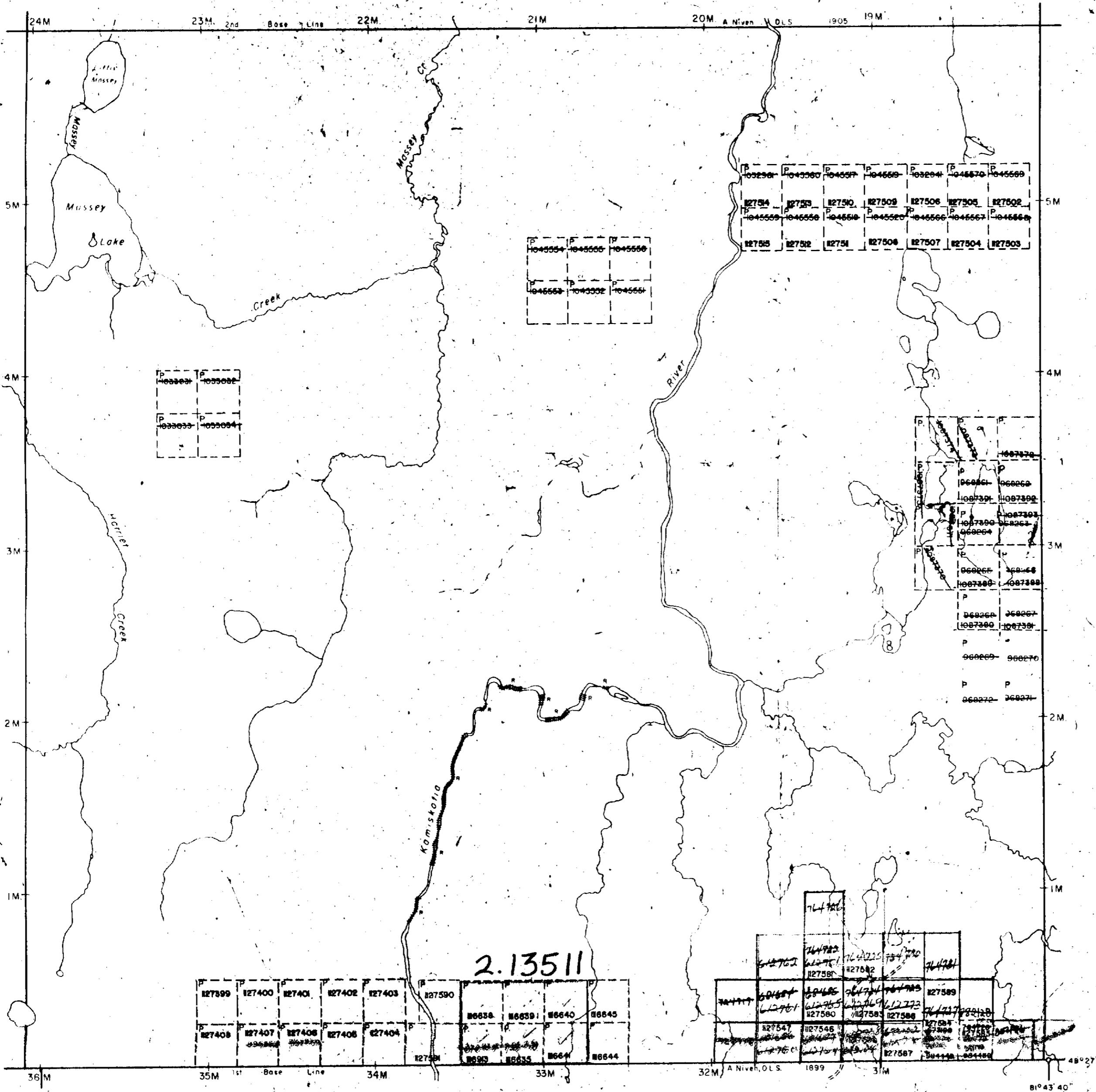
P 1116641 - 15 days electromagnetic
 - 30 days magnetic

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

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 77(19) - 60.

CÔTÉ TWP - M.271



ENID TWP - M.788

TURNBULL TWP - M.316

WHITESIDES TWP - M.318

THE TOWNSHIP OF
OF
MASSEY

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

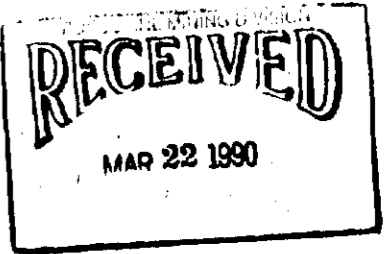
SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND (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 MUSKÉG
- MINES
- CANCELLED (C)

NOTES

400' surface rights reservation around all lakes and rivers.



PLAN NO. **M.296**

DEPARTMENT OF MINES

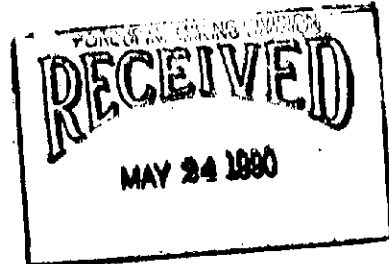
— ONTARIO —



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

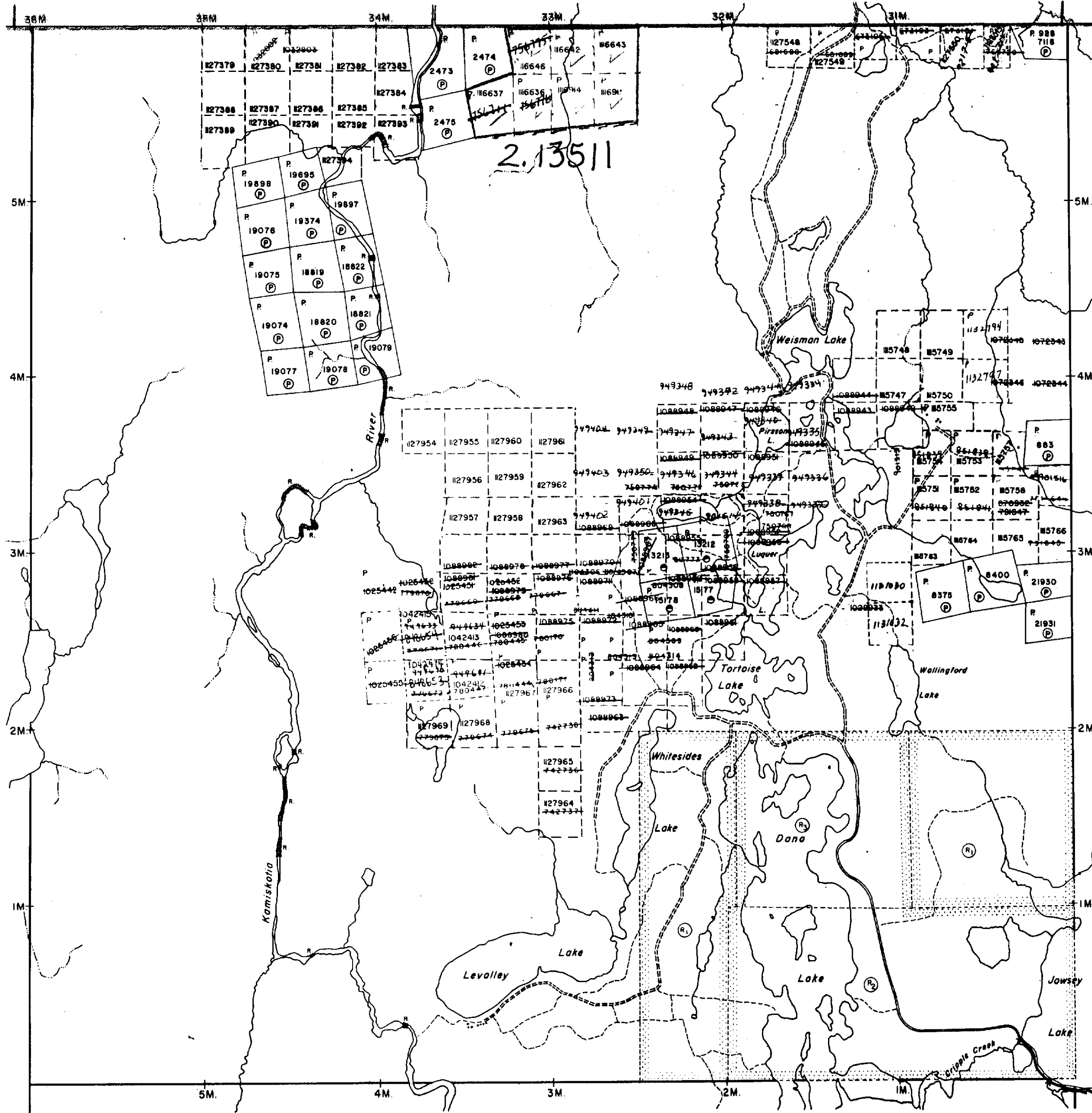
	M.R.O. - MINING RIGHTS ONLY			
	S.R.O. - SURFACE RIGHTS ONLY			
	M.+S. - MINING AND SURFACE RIGHTS			
Description	Order No.	Date	Disposition	File
1. AND JOWSEY LAKES PARK RES.	S.R.O.	171506		
2. SEC 36/70	W.R.G./83		M.R.O.	
3. SEC 43/70	FFB 3/66		M.+S.	171506
4. SEC 43/70	28/1/71		M.+S.	171506



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT.



Massey Twp.



Keefe Twp.

LEGEND

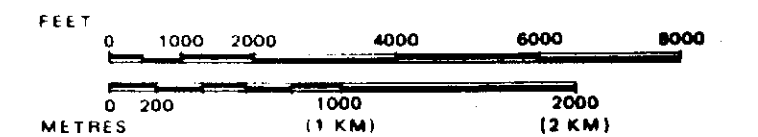
HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	⊙ or ●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	◼
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊕
CANCELLED	⊖
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

WHITESIDES

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

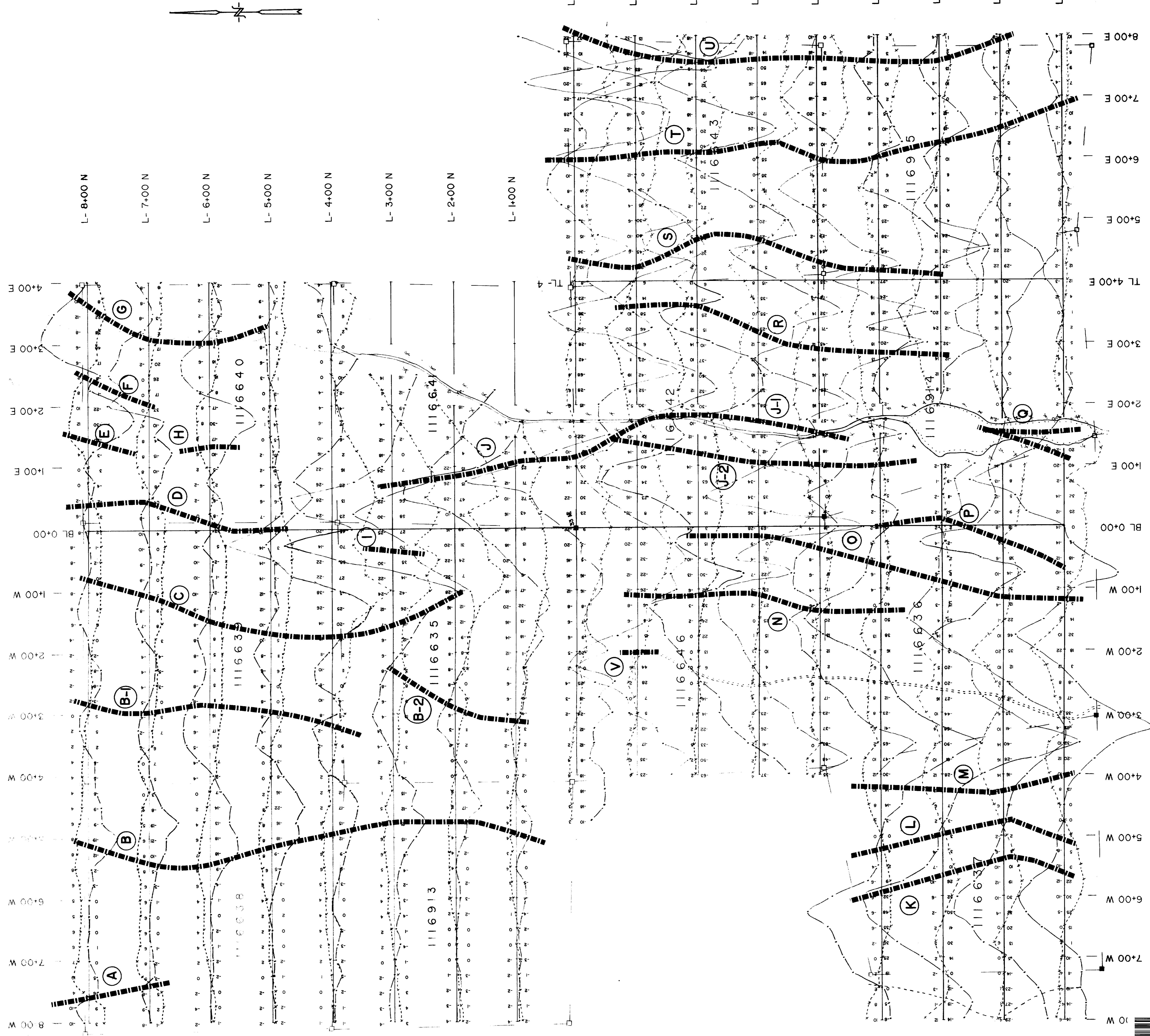


Ministry of Land Management
Natural Resources Branch
Ontario

Date FEBRUARY 1985

Number

G-3230



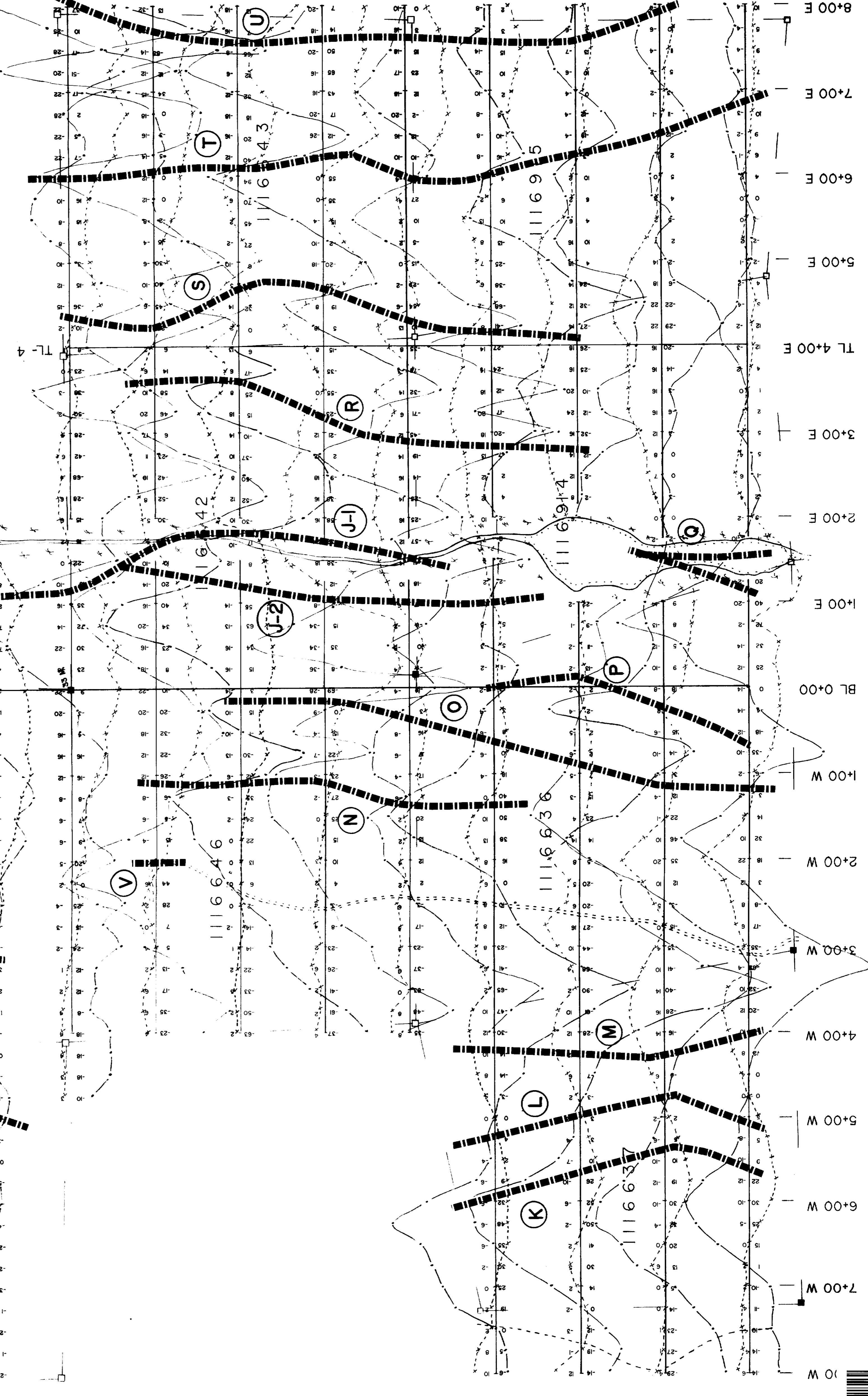
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HORIZONTAL SCALE 1:2500
MASSEY TWP
WHITESIDE TWP
L- 0+00 S
L- 1+00 S
L- 2+00 S
L- 3+00 S
L- 4+00 S
L- 5+00 S
L- 6+00 S
L- 7+00 S
L- 8+00 S



VLF EM SURVEY
ANOMALY AMPLITUDE

STATION USED:
NSS Annapolis Maryland 2L 4 KHz
READINGS TAKEN: EAST
PROFILE SCALE: 1CM = 20
RECEIVED
SEP 06 1980
MINING LANDS SECTION

2.13511

WHITESIDE- MASSEY PROPERTY
WHITESIDE TOWNSHIP

Survey by: M - CARON
Date of survey: AUGUST 1980
Instrument: Geonix Em 16
Drawn by: M.CARON
SCALE: 1:2500

