



42A05NW0104 2.14300 WHITESIDES

010

GROUND MAGNETOMETER SURVEY
FOR
CLIFF MACKENZIE - DOUGLAS LALONDE
AND
DENNIS LAFOREST PROPERTY
WHITESIDES & MASSEY TOWNSHIPS
DISTRICT OF COCHRANE
PORCUPINE MINING DIVISION

Timmins, Ontario
October 2, 1991

C.D. MacKenzie
Consulting Geologist

C.D. MacKenzie



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MAPS

(Back Pocket)

MAP A

Magnetic Survey

1:2,500

INTRODUCTION

The following report describes the results of a ground magnetometer survey for Cliff MacKenzie, 446 Poplar Avenue, Timmins, Ontario, Douglas Lalonde, 53 Way Avenue, Timmins, Ontario and Dennis LaForest, 730 McClinton Drive, Timmins, Ontario.

The field work was carried out under a OPAP Government Grant and was completed October 2, 1991 and the report was completed on October 3, 1991.

PROPERTY LOCATION AND ACCESS

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

The property is accessible by four-wheel drive vehicles. The claim group can be reached by driving west along Highway 101 for a distance of 30 kilometres, then turning north along the Whitesides gravel road for a distance of 15 kilometres to the end of a bush road at a point 400 metres east of the Kamiskotia River and the west boundary of the present claim group. The baseline lies a short distance west of the river and a boat or canoe is necessary to cross the river at this location where a 400 metre trail has been cut west to the river.

PROPERTY DESCRIPTION

The property consists of 25 contiguous claims in the northeast corner of Whitesides Township extending north into Massey Townships. The claims are numbered as follows:

1127380	1127390	1127404
1127381	1127391	1127405
1127382	1127392	1127406
1127383	1127393	1127407
1127384	1127399	1127408
1127385	1127400	1127590
1127386	1127401	1127591
1127387	1127402	
1127388	1127403	

LINECUTTING

A north-south baseline starting on the Don Warren patented claims in Whitesides Township was continued to the north boundary of the claim group under discussion.

Lines were cut east-west from the baseline at 100 metre intervals and stations were established at 25 metre intervals. A total of 30.1 kilometres were cut over 23 claims by M.C. Explorations Ltd. of Timmins, Ontario. 21 claims were completely covered and 2 were partially covered by grid lines.

GROUND MAGNETOMETER SURVEY

The ground magnetometer survey was completed utilizing a proton magnetometer Geometrics Model G-816 capable of reading total field values to a accuracy of ± 1 gamma. Base stations were established at 100 metre intervals along the baseline. Diurnal variation was corrected by tying into the base stations every 60 minutes.

A total of 1,274 readings were read. The operators were Glen Coyne, 527 Mountjoy South, Timmins, Ontario and Dennis LaForest, 730 McClinton Drive, Timmins, Ontario.

PROPERTY GEOLOGY

The property is underlain by Precambrian formations, the oldest being the sedimentary gneisses striking north-south throughout the claim group. These rocks are intruded by a complex gabbro intrusive ranging from white anorthosite to a pyroxenite gabbro.

This intrusive is cut by granite towards the western boundary of the property and the western side of the property is underlain mainly by red granite and paragneiss. For this reason lines were not cut over this portion of the claim group.

Representing the late Precambrian, north-south striking diabases intrude all of the formations including the granite.

Nickel, cobalt and copper mineralization are present south of the claim group and a trench near Line 10N at a point immediately west of the baseline shows nearly massive pyrrhotite over a 1 metre width in a black pyroxenite. Values in nickel-copper and cobalt were obtained from this trench with nickel assaying .7%.

Three airborne EM anomalies, circa 1988, are located on and near the township line at the south boundary of Massey Township.

The only record of drilling on the property was a short x-ray diamond drill hole by Inco in the vicinity of the Massey Township line, circa 1970. This hole intersected sulfides in a grey garnetiferous para-gneiss.

At present, a zone of nickeliferous pyrrhotite in gabbro and pyroxenite is being traced by magnetometer work from X110N north to the vicinity of 3 airborne EM anomalies near the Massey Township line. The "showing" is located just west of the baseline on the Don Warren claims in Whitesides Township.

RESULTS OF THE MAGNETOMETER SURVEY

The results of the magnetometer survey are shown on a map located in the back pocket of this report on a scale of 1:2,500.

The magnetic anomalies are designated on the map by the letters A, A-1, B, C, D, E, F, G, H and I.

ANOMALY A appears to be a narrow north-south diabase striking north across the claim group. At X127N it appears to cross a east-west feature designated as Anomaly A-1. Anomaly A-1 appears to be possibly a mineralized shear zone containing magnetic pyrrhotite.

ANOMALY B is approximately 500 metres in length striking north-south direction and may be due to a mineralized zone in gabbro.

ANOMALIES C and D have a total combined length of 1,000 metres striking northeasterly and are believed due to disseminated to massive pyrrhotite lenses in the gabbro and lie in the vicinity of 3 airborne conductors, circa 1988.

ANOMALIES E and F are believed to be caused by north-south striking diabase dykes.

ANOMALY G is a series of lenses of pyrrhotite in pyroxene gabbro.

ANOMALIES H and I appear to be north-south striking mineralized zones within the gabbro. Anomaly I lies east of a known nickeliferous zone lying in a shear striking 60° and dipping steeply south. However, Anomaly I continues north for at least 900 metres and is probably part of the G anomaly and since no magnetite was observed in the gabbro outcrops all magnetic highs in this area appear to be due to magnetic pyrrhotite mineralization.

RECOMMENDATIONS AND CONCLUSIONS

This magnetometer map should be redone by computer, color coded to separate the magnetic diabases and the mineralized zones.

Prospecting, mapping and sampling over the entire property should be completed.

A Max-Min survey should be carried out on all lines presently cut and additional north-south lines cut over Anomaly A-1 and read with a Max-Min unit.

Anomalies C and D which lie in the vicinity of the airborne EM anomalies obtained in 1988 should be drilled if the Max-Min shows strong anomalies beneath the overburden in this area. No outcrop has been found to date in the vicinity of the C and D anomalies.

Respectfully submitted

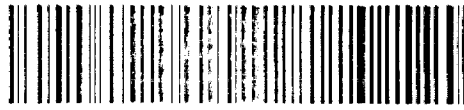
C.D. MacKenzie
C.D. MacKenzie

Report of Work Conducted After Recording Claim

Transaction Number
W9160.00245

Mining Act

Personal information collected on this form is obtained under the authority of the M this collection should be directed to the Provincial Manager, Mining Lands, Min Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



4248264124 2.14 1991 WITH SLIDES

5300

Instructions: Please type or print and submit in duplicate.
Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
A separate copy of this form must be completed for each Work Group.
Technical reports and maps must accompany this form in duplicate.
A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s): **Clifford D. Mackenzie**
Address: **466 Poplar Street Timmins**
Mining Division: **Porcupine** Township/Area: **Mansey Whiteville**
Dates Work Performed: From **July 91** to **Oct 31/91**
Client No.: *** 162603**
Telephone No.: **264-1981**
M or G Plan No.:

Work Performed (Check One Work Group, Only)

<input checked="" type="checkbox"/> Geotechnical Survey	magnetic survey	Type: shin cutting
<input type="checkbox"/> Physical Work, Including Drilling		
<input type="checkbox"/> Rehabilitation		
<input type="checkbox"/> Other Authorized Work		
<input type="checkbox"/> Assays		
<input type="checkbox"/> Assignment from Reserve		

RECORDED
OCT - 4 1991
Receipt: _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ **11,445.00**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
M. C. Exploration	P.O. Box 362, Porcupine Ontario
D. H. Forest	730 McClinton St. Timmins
C. D. Mackenzie	466 Poplar St. Timmins
Douglas Hanson	53 Wemyss St. Timmins

(attach a schedule if necessary)

Certification of Beneficial Interest See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: **Oct 4/91** Recorded Holder or Agent (Signature): *** C.D. Mackenzie**

Certification of Work Report

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

Name and Address of Person Certifying: **Dennis H. Forest 730 McClinton St. Timmins**
Telephone No.: **705-268-2961** Date: **Oct 4/91**
Certified By (Signature): **D. H. Forest**

For Office Use Only

Total Value Cr. Recorded 11,445	Date Recorded Oct. 4/91 Dormed Approval Date JAN 2/91 Date Notice for Amendments Sent	Mining Recorder White Date Approved	Received by MINING DIVISION RECEIVED OCT 4 1991 2100 mck
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Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claims
	1127380	1
	1127381	1
	1127382	1
	1127383	1
	1127384	1
	1127385	1
	1127386	1
	1127387	1
	1127390	1
	1127391	1
	1127392	1
	1127394	1
	1127399	1
	1127400	1
	1127401	1
	1127402	1
	1127404	1

SEE OTHER

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
545	445
545	445
545	445
545	445
545	445
545	445
545	445
545	445
545	445
545	545
545	545
545	545
545	400
545	445
545	445
545	445
545	445

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Future
100	894
100	
100	
100	
100	
100	
100	
100	
100	
0	
0	
0	
0	
45	49
100	100
100	100
100	100
100	100

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- 1. Credits are to be cut back starting with the claim listed last, working backwards.
- 2. Credits are to be cut back equally over all claims contained in this report of work.
- 3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date



Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670 7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670 7264.

1. Direct Costs/Coûts directs

2. Indirect Costs/Coûts indirects

Note: When claiming Rehabilitation work Indirect costs are not allowable as Assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main d'oeuvre	3000	
	Field Supervision Supervision sur le terrain	400	3400
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Cutting	8045	8045
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			11,445

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement	Receipt		
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			0
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	11,445

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Asociato I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

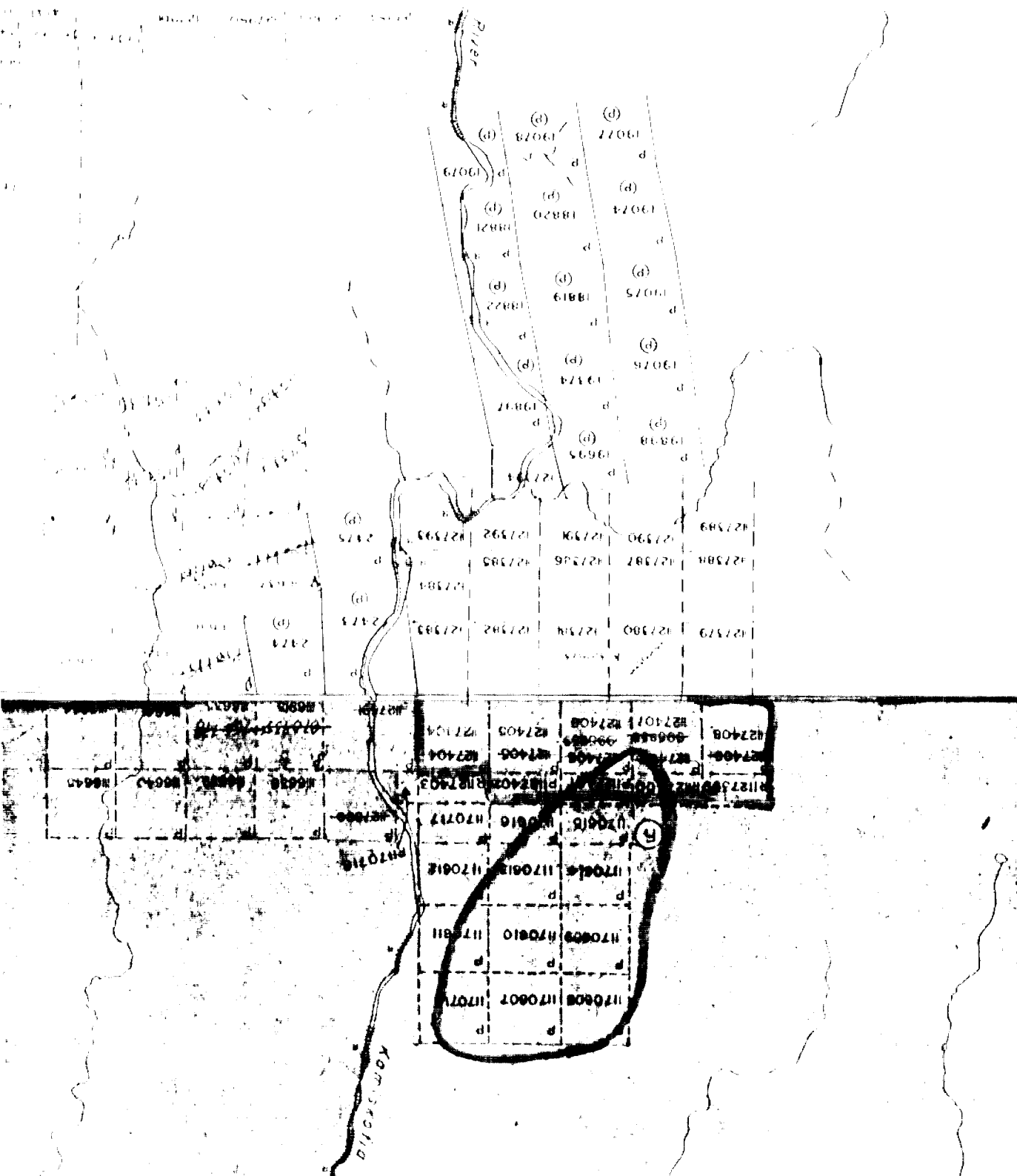
Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de Asociato Je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature: [Signature] Date: Oct 4/91



4M

SM

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STATE MINING CLAIMS SHOULD CONSULT WITH THE BUREAU OF RECORDED MINES OF NORTHERN CALIFORNIA AND MINING FOR ADDITIONAL INFORMATION.

1M



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Toll Free: 1-800-465-3880
Telephone: (705) 670-7264
Fax: (705) 670-7262

December 31, 1991

Our File: 2.14399
Your File: W.9160.00245

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

Dear Sir:

Subject: Approval of Assessment Work submitted on Mining Claims
P.1127380 et al in Massey and Whiteside Townships.

The assessment work credits for the Geophysical survey, section 14
Mining Act Regulations, submitted on the above work report have been
approved as of the above date.

Please note the revised work credit form included with this
correspondence.

Please indicate this approval on your records.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

TA/jj

Enclosures:

cc: Assessment Files Office
Toronto, Ontario

Resident Geologist
Timmins, Ontario

FILE NUMBER: 2.14399

DATE: December 31, 1991

RECORDER'S REPORT NUMBER: W9160-00245

RECORDED HOLDER: Cliff Mackenzie

CLIENT NUMBER: 162603

TOWNSHIP OR AREA: Massey & Whitesides Townships.

CLAIM NO. ON CLAIM	VALUE OF ASSESSMENT TO CLAIM	VALUE APPLIED FROM CLAIM	VALUE ASSIGNED	RESERVE
P 1127380	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127381	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127382	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127383	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127384	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127385	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127386	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127387	\$ 545.00	\$ 445.00	\$ 100.00	\$ 0.00
P 1127390	\$ 545.00	\$ 545.00	\$ 0.00	\$ 0.00
P 1127391	\$ 545.00	\$ 545.00	\$ 0.00	\$ 0.00
P 1127392	\$ 545.00	\$ 545.00	\$ 0.00	\$ 0.00
P 1127394	\$ 545.00	\$ 545.00	\$ 0.00	\$ 0.00
P 1127399	\$ 545.00	\$ 400.00	\$ 96.00	\$ 49.00
P 1127400	\$ 545.00	\$ 445.00	\$ 0.00	\$ 100.00
P 1127401	\$ 545.00	\$ 445.00	\$ 0.00	\$ 100.00
P 1127402	\$ 545.00	\$ 445.00	\$ 0.00	\$ 100.00
P 1127404	\$ 545.00	\$ 445.00	\$ 0.00	\$ 100.00
P 1127393	\$ 0.00	\$ 448.00	\$ 0.00	\$ 0.00
P 1127403	\$ 0.00	\$ 448.00	\$ 0.00	\$ 0.00
P 1127405	\$ 545.00	\$ 445.00	\$ 0.00	\$ 100.00
P 1127406	\$ 545.00	\$ 445.00	\$ 0.00	\$ 100.00
P 1127407	\$ 545.00	\$ 445.00	\$ 0.00	\$ 100.00
P 1127408	\$ 545.00	\$ 400.00	\$ 0.00	\$ 145.00

NO. OF CLAIMS	TOTAL VALUE WORK DONE	TOTAL VALUE WORK APPLIED	TOTAL ASSIGNED FROM	RESERVE
23	\$ 11445.00	\$ 10551.00	\$ 896.00	\$ 894.00

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
(R1) DANA AND JOWSEY LAKES PARK RES			S.R.O.	171506
SEC 36/70 W-10/78			M.R.O.	
(R2) SEC 43/70		18/3/66	M.+S.	171506
(R3) 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...

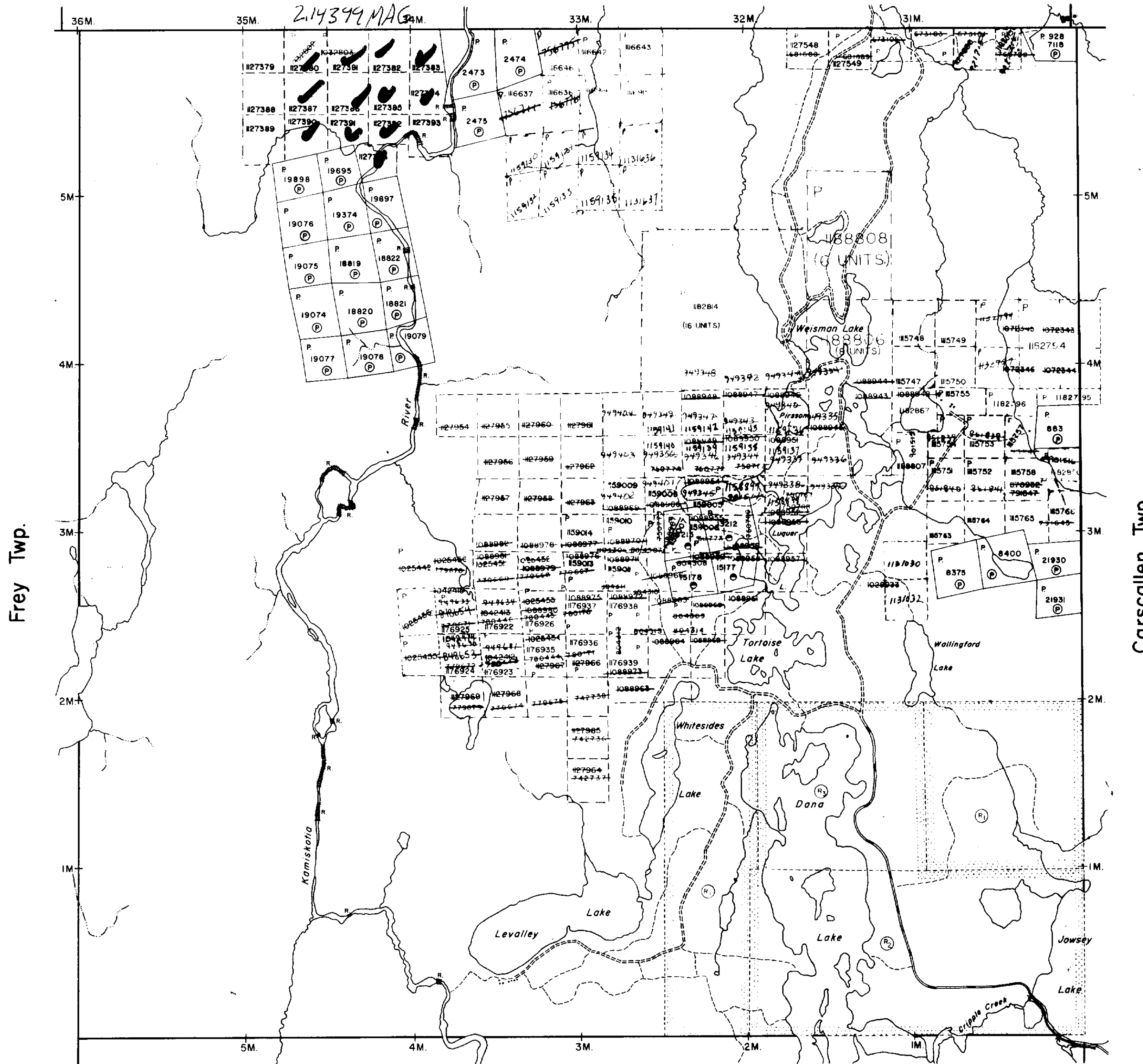


LANDS SHOWN HEREON

200

000 K

Massey Twp.



Keefe Twp.

LEGEND

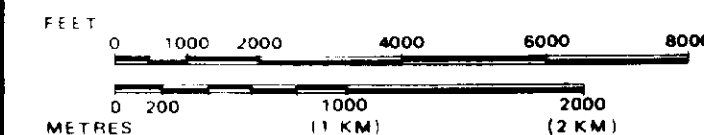
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION 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 DIVISION

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

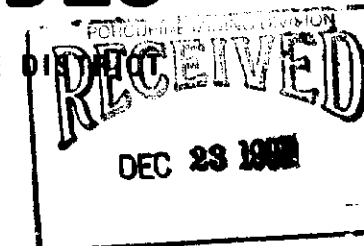


Ministry of Natural Resources
Land Management Branch

Date FEBRUARY 1985

Number

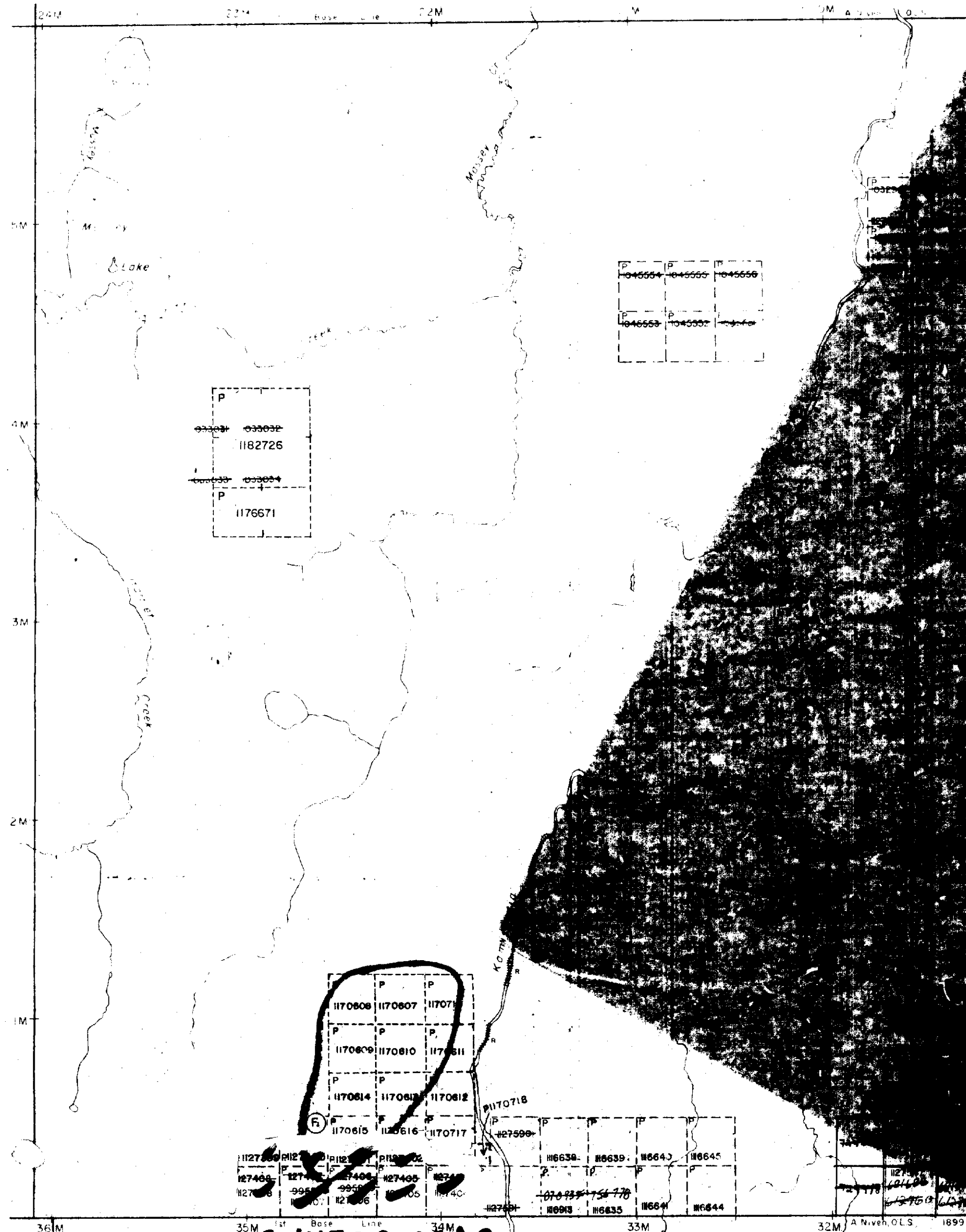
G-3230



CÔTÉ TWP - M.271

MASSEY

ENID TWP - M.788



2.14399 MAG

WHITESIDES TWP - M.318

reservation around all

FOREST ACTIVITY IN 1991/92.

ATION AVAILABLE ON FILE.

ATION UNDER THE AGGREGATE

T.

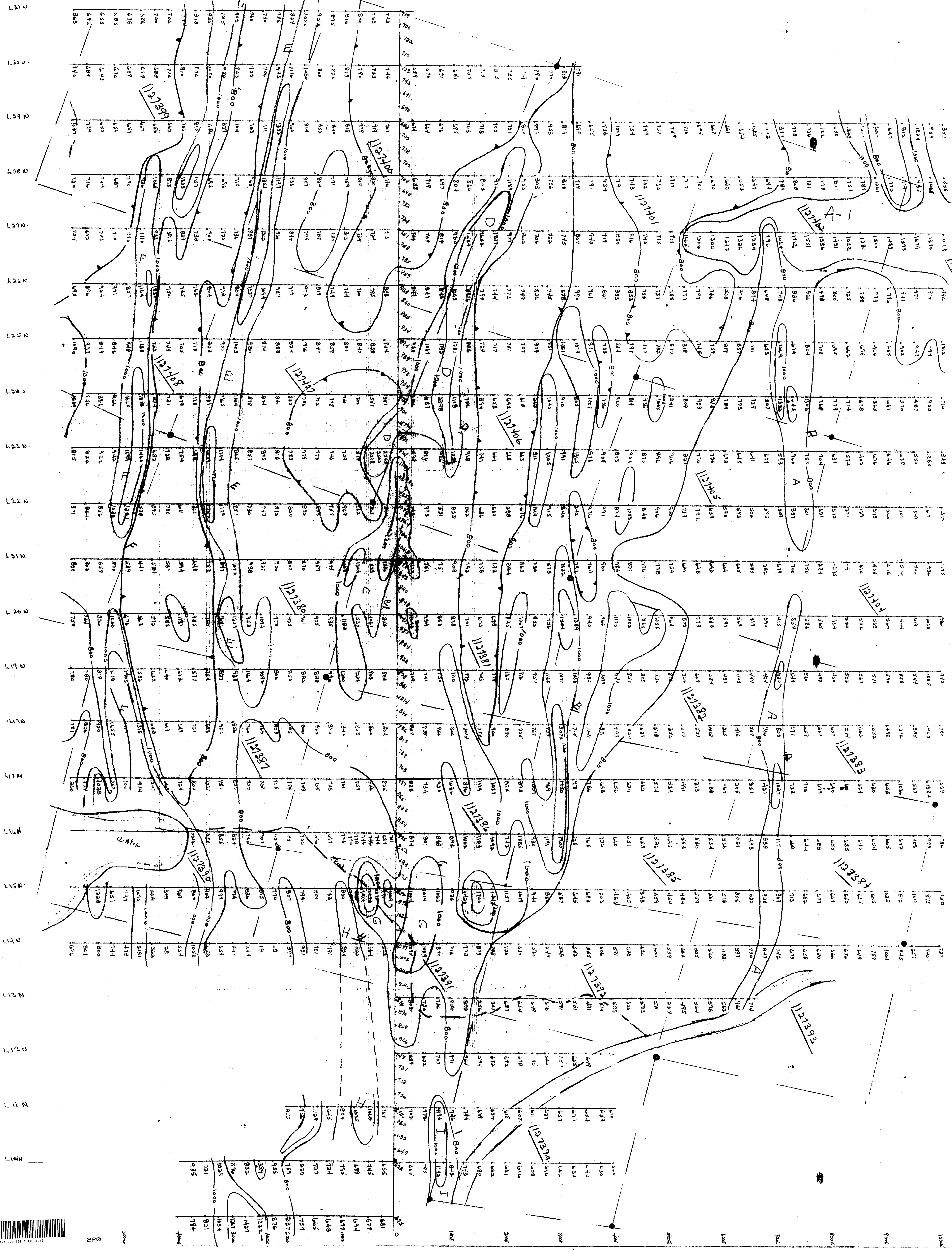
IVED 91-NOV-22.

PLAN NO. M.296.
Rec'd Oct 4/99

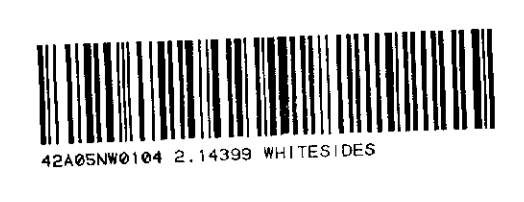
DEPARTMENT OF MINES

— ONTARIO —





Massey Camp
Whiteside twp.



- location -



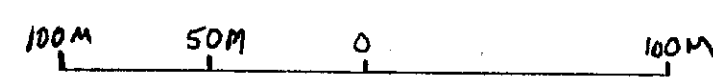
SCALE 1 inch To 10 Mile.

- Legend -

HAG SURVEY

Instrument - Geometric 5-816
Resolution 1 GAHHA
Total Field Accuracy ± 1 GAHHA
Range 20,000 to 100,000 ft
Plotting &
Base Station Location A 58632
Claim Post location ●

Massy Gap
Whiteside twp.



Arkenzie & Associates Property

2. 14399

Whitesides - Massy twp

Pecupine Mining Division.

SCALE 1:2500

