

42A155W0151 2.3030 LITTLE

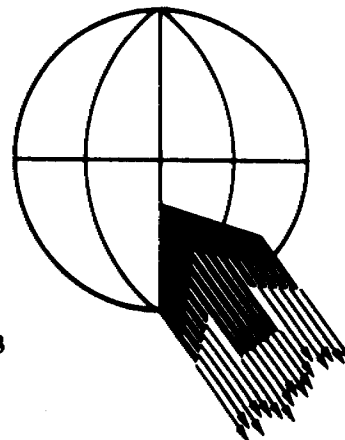
010

RECEIVED

AUG 30 1979

MINING LANDS SECTION

AIRBORNE MAGNETIC SURVEY
NORCEN ENERGY RESOURCES LTD.
TIMMINS AREA, ONTARIO.
FILE NO: 21005 JULY, 1979



Questor Surveys Limited, 6380 Viscount Road, Mississauga, Ontario L4V 1H3

INTRODUCTION

This report contains our interpretation of the results of an airborne magnetometer survey flown in the Timmins Area, Ontario on May 11, 12, 13, 14 and 15, 1979.

The total survey was 1699 line miles and the survey was performed by Questor Surveys Limited. The survey aircraft was a Britten Norman Trislander C-GNKW and the operating base was Timmins, Ontario.

The area outline is shown on a 1:250,000 map at the end of this report. This is part of the National Topographic Series, sheet number 42A.

The following people were involved with the survey:

Pilot	Pat Harbord
Co-Pilot	Gary Robertson
Operator	Garry Mason
Engineer	Mike Kohlruss
Crew Manager	John Darwent

MAP COMPILATION

The base maps were produced from uncontrolled mosaics using National Air Photo Library 1" = 4300 feet (approximate) photographs. These mosaics were reproduced at a scale of 1" = 1320 feet on stable transparent film from which white prints can be made.

Flight path recovery was accomplished by comparison of the prints of the 35mm film with the mosaic in order to locate the fiducial points. These points are approximately 4,500 feet apart.

SURVEY PROCEDURE

Terrain clearance was maintained as close to 400 feet as possible. A normal S-pattern flight path using approximately one mile turns was used. The equipment operator logged the flight details and monitored the instruments.

A line spacing of 660 feet was used.

INTERPRETATION

BLOCK A

The higher intensity magnetic features in the south half of Tully Township appear to be related to serpentized peridotite and diorite. The strike in this area is generally east-west with some rock types striking northeast-southwest in the southwest corner of Tully Township. Some of the more subtle magnetic trends are probably due to magnetite within a basic volcanic complex. The magnetic lows generally correlate with felsic volcanics to felsic intrusive rock types although basic volcanics could be void of any magnetics. There are a few diabase dykes traversing north-south through Tully Township. However, after referring to the magnetic maps, there do not appear to be any north-south trending magnetic features within the confines of the survey area in Prosser or Little Townships. The extremely high intensity magnetic feature in the northeast corner of Little Township is related to a serpentized peridotite. This part of the ultrabasic rock type is just a small portion of the total ultrabasic complex. With the exception of a few subtle magnetic features in Little Township, the magnetics are generally low or flat. This is a reflection

of the rock types being void of magnetite and that felsic rock types are predominate in this township.

BLOCK B

Block B covers the eastern half of MacDiarmid Township and Jamieson Township. The strike of the geology is roughly in an east-west direction with a few folds such as in the central part of Jamieson Township. The extremely high intensity magnetic feature in the central part of MacDiarmid Township correlates with a serpentized dunite. The rock type extends well to the west from the survey area. Gabbro has been mapped as being the rock type in the east central part of Jamieson Township. The main part of the trend strikes east-west but then it folds to the north on the east side of the Mattagami River. Similar rock type has also been indicated to be in the area west of the Mattagami River near the south township line of Jamieson Township. There are also a few diabase dykes in this area to confuse the picture slightly. Because there are so many diabase dykes in Block B, the feeling is that the geology is striking in a north-northwest direction when one refers to the magnetic maps. However, this is certainly not the case. Referring to Preliminary Map No. 521, it will be noted that the geology strikes roughly in an east-west direction.

BLOCK C

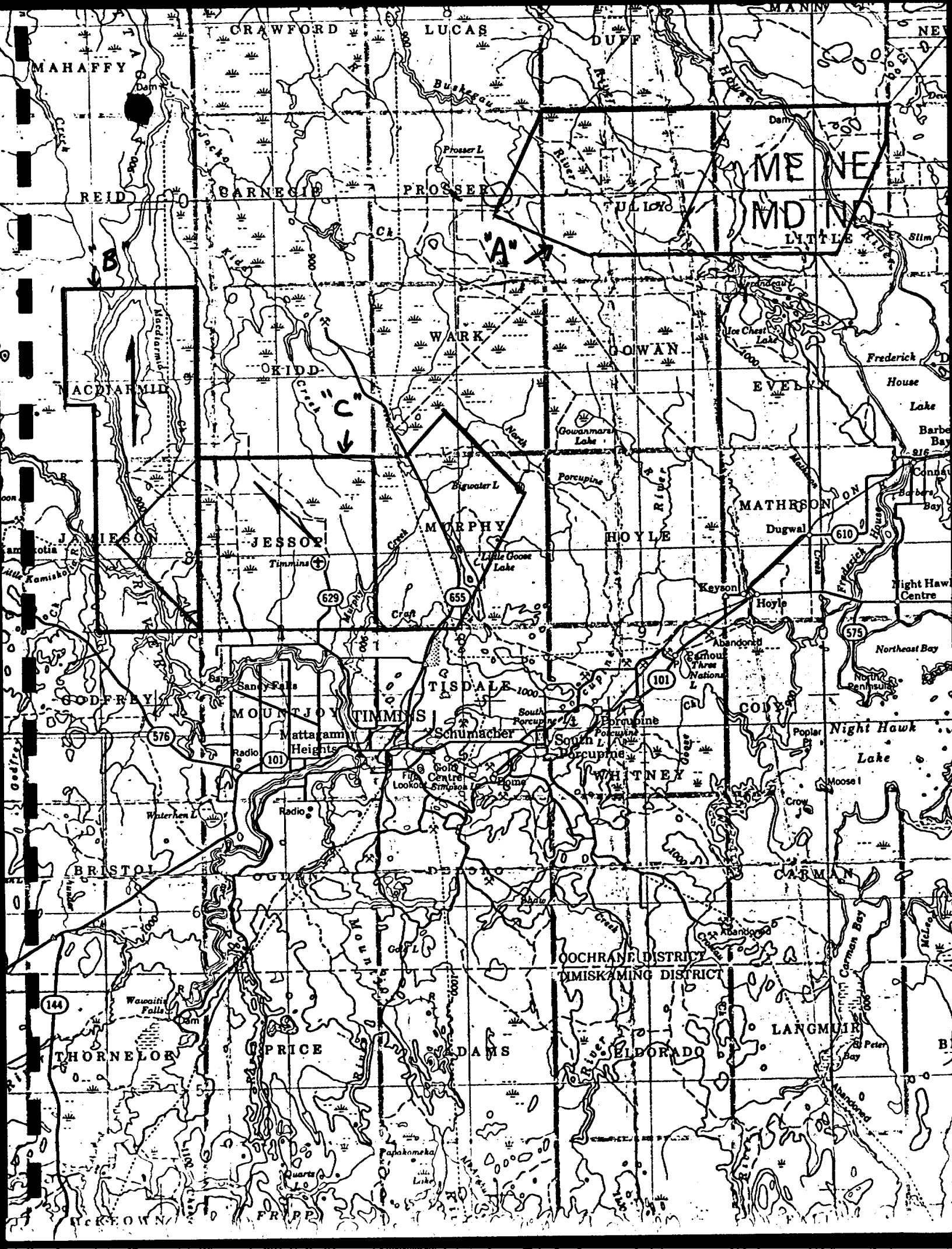
This portion of the magnetic survey is comprised of Jessop Township, Murphy Township and a portion of Jamieson Township. It is an area which has seen a considerable amount of exploration from prospecting to diamond drilling. From the enormous amount of information gained from the drilling, some meaningful understanding of the geology can be made of this area. Extensive overburden in the survey area has made it impossible to determine a complete geological picture. The magnetics, therefore, can be used to interpret the geology and structure beneath the Pleistocene cover. The moderate intensity magnetic highs in the eastern part of Jamieson Township near the Mattagami River is due to magnetite within an ultrabasic rock type. Another area of similar magnetic intensity is in the southwest corner of Murphy Township. Here the rock type has been described as being gabbro. It is quite possible that sulphide iron formation is the cause of the northeast striking magnetic trend in the northwest corner of Jessop Township. Pyrrhotite is the probable cause of the magnetics in this area. Mafic volcanics appear to be the host rocks which are the cause of the subtle magnetic features in most of Jessop Township. There are some areas in Jamieson Township which have the same features. The long north-south striking features in Jamieson Township are related to diabase dykes. There is

also what appears to be a diabase dyke striking north-northeast in the west central part of Jessop Township. Most of the area east of the Timmins airport appears to be void of any diabase dykes. The magnetic lows within BLOCK C can be related to felsic volcanics and in some cases, metasediments.

QUESTOR SURVEYS LIMITED,

R. J. de Carle

R.J. deCarle,
Chief Geophysicist.



SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) AIRBORNE MAGNETICS

Instrument(s) GEOMETRICS G-803 PROTON PRECESSION MAGNETOMETER
(specify for each type of survey)

Accuracy 1 GAMMA
(specify for each type of survey)

Aircraft used BRITTEN NORMAN TRISLANDER

Sensor altitude 400 FT.

Navigation and flight path recovery method VISUAL NAVIGATION; INFLIGHT 35 mm FILM STRIPS
RELATIVE TO PREVIOUSLY PREPARED 1 IN to 1320 FT. PHOTOMOSAICS

Aircraft altitude 400 FT. Line Spacing 660 FT.

Miles flown over total area 1699 Over claims only 420

$420 \times 40 = 16,800 \div 840 = 20 \text{ days}$



JAMIESON, JESSOP TOWNSHIPS

P-516492 - 516545 inclusive
P-517124 - 517159 inclusive
P-517250 - 517334 inclusive
P-517340 - 517354 inclusive
P-521638 - 521653 inclusive
P-521678 - 521717 inclusive
P-522131 - 522148 inclusive
P-522211 - 522218 inclusive

LITTLE AND TULLY TOWNSHIPS

P-452235 - 452273 inclusive
P-500514 - 500521 inclusive
P-500334 - 500337 inclusive
P-515710 - 515764 inclusive
P-517160 - 517179 inclusive
P-517210 - 517247 inclusive
P-517249; P-521769
P-517411 - 517434 inclusive
P-521730 - 521765 inclusive

TULLY AND MACDIARMID TOWNSHIPS

P-512687 - 512694 inclusive
P-521654 - 521677 inclusive
P-521980 - 521983 inclusive
P-522010 - 522036 inclusive

LITTLE AND MACDIARMID TOWNSHIPS

P-452275 - 452294 inclusive
P-452357 - 452374 inclusive
P-495317 - 495322 inclusive
P-516105 - 516111 inclusive
P-517370 - 517409 inclusive
P-521598 - 521615 inclusive
P-521718 - 521729 inclusive
P-521825 - 521870 inclusive
P-522149 - 522154 inclusive

GODFREY, MOUNTJOY AND MURPHY TOWNSHIPS

P-536873 - 536876 inclusive
P-536884, 536885

MACDIARMID TOWNSHIP

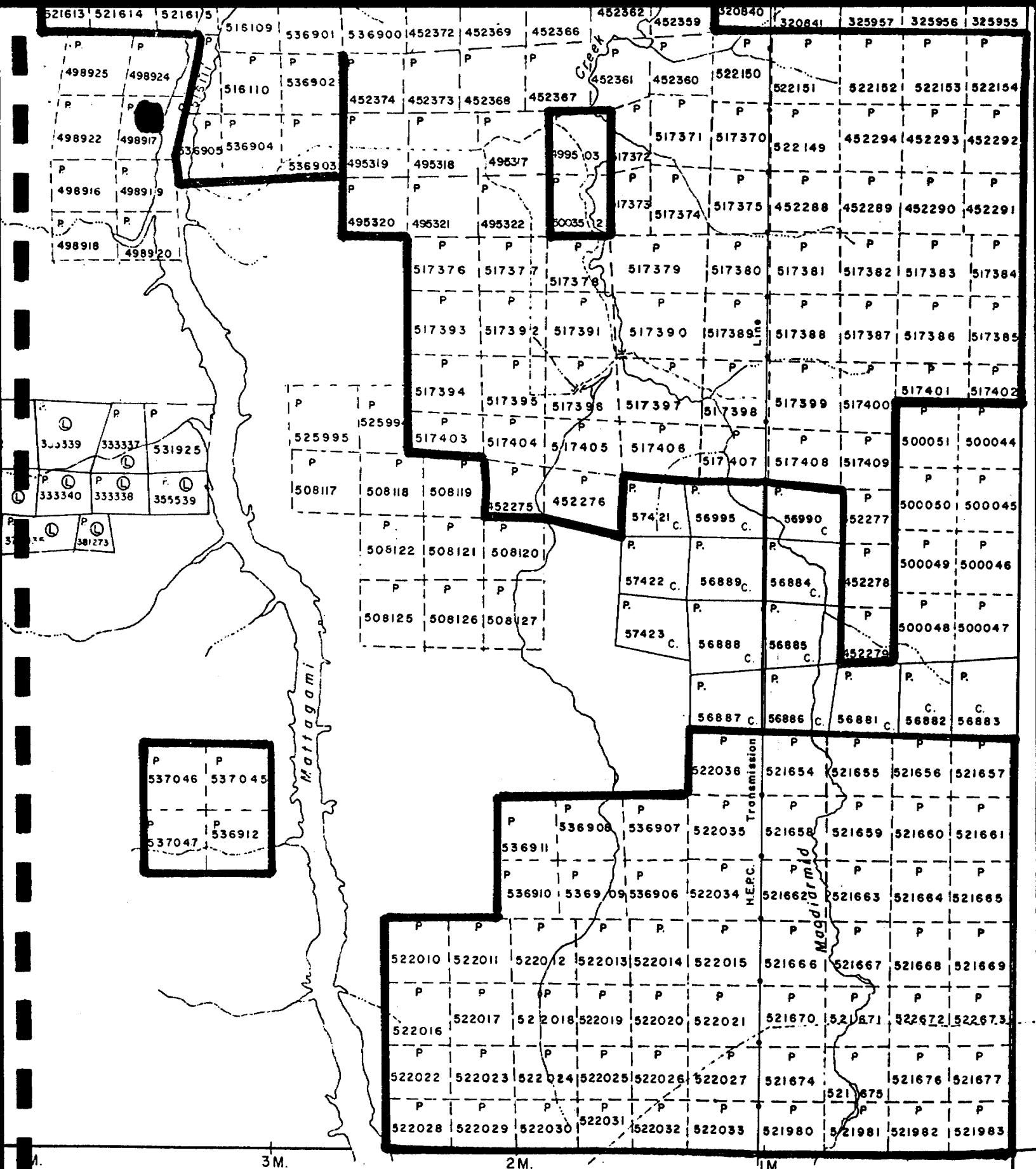
P-536900 - 536912 inclusive
P-537045 - 537047 inclusive

JESSOP TOWNSHIP

P-536883
P-539514 - 539519 inclusive
P-539525 - 539527 inclusive
P-539529, P539530
P-539644, P-539645

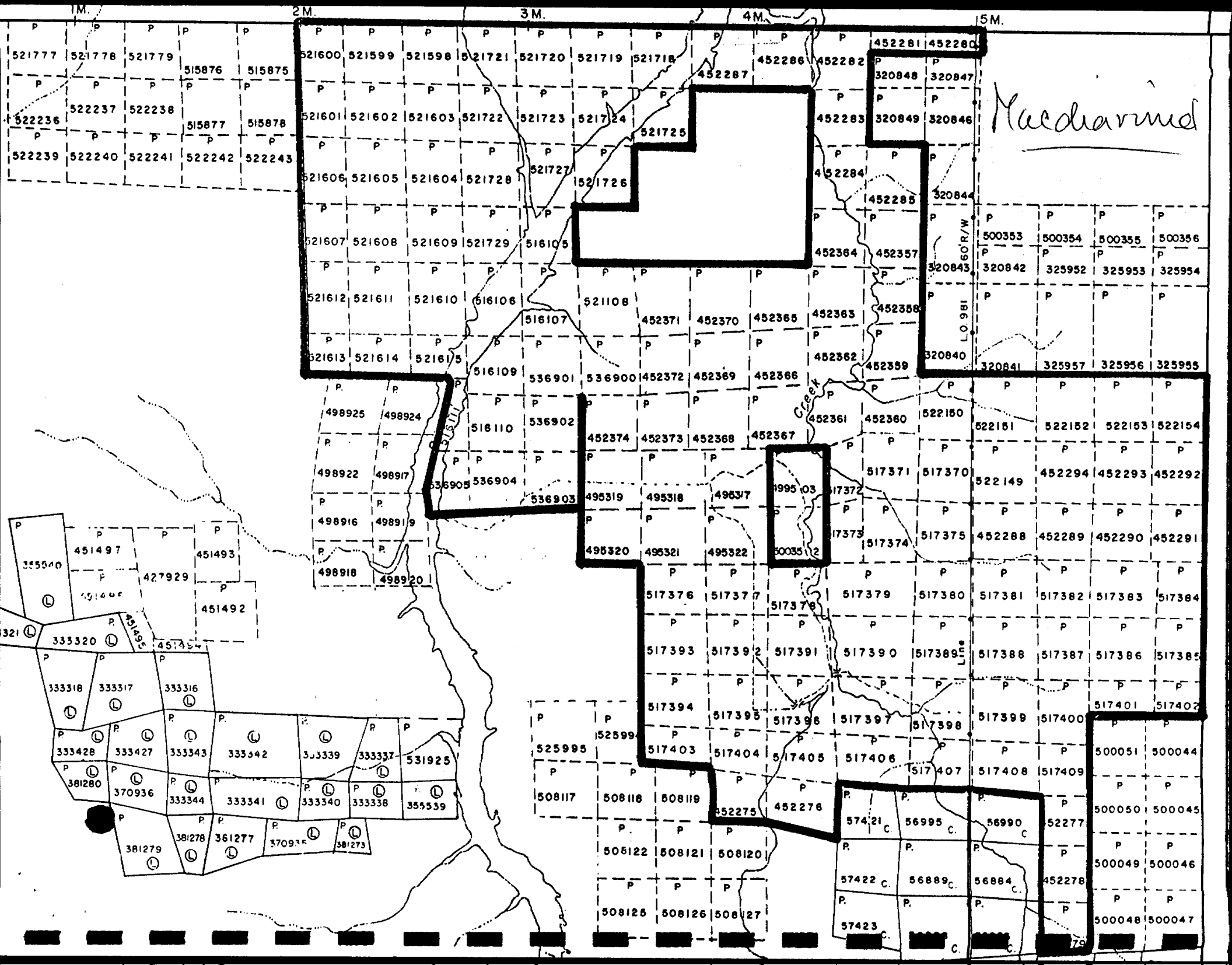
JAMIESON TOWNSHIP

P-537048 - 537050 inclusive



JAMIESON TWP. - M.288

Mardianiel



1M. 2M. 3M. 4M. 5M.

521777 521778 521779 515876 515875
 522236 522237 522238 515877 515878
 522239 522240 522241 522242 522243

521600 521599 521598 521721 521720 521719 521718
 521601 521602 521603 521722 521723 521724
 521606 521605 521604 521728 521727 521726
 521607 521608 521609 521729 516105
 521612 521611 521610 516106 521108
 521613 521614 521615 516107 521108
 516109 536901 536900 452372 452369 452366
 498925 498924 516110 536902
 498922 498917 536905 536904 536903 495319 495318 495317 499503 497372
 498916 498919 498918 498920 495320 495321 495322 500351 497373 497374 497375 497376 497377 497378 497379 497380 497381 497382 497383 497384
 517376 517377 517378 517379 517380 517381 517382 517383 517384
 517393 517392 517391 517390 517389 517388 517387 517386 517385
 517394 517395 517396 517397 517398 517399 517400 517401 517402
 525995 517403 517404 517405 517406 517407 517408 517409 500051 500044
 508117 508118 508119 522275 452276 57421 56995 56990 52277 500050 500045
 508122 508121 508120 57422 56889 56884 452278 500049 500046
 508125 508126 508127 57423 500048 500047

Macdiarmid

35540 451497 451493 427929 451492
 333320 333318 333317 333316 333428 333427 333343 333342 333339 333337 531925
 381280 370936 333344 333341 333340 333338 355539
 381279 381278 361277 370935 381273

500353 500354 500355 500356
 320842 325952 325953 325954
 320840 320841 325957 325956 325955



THE TOWNSHIP
OF

MURPHY

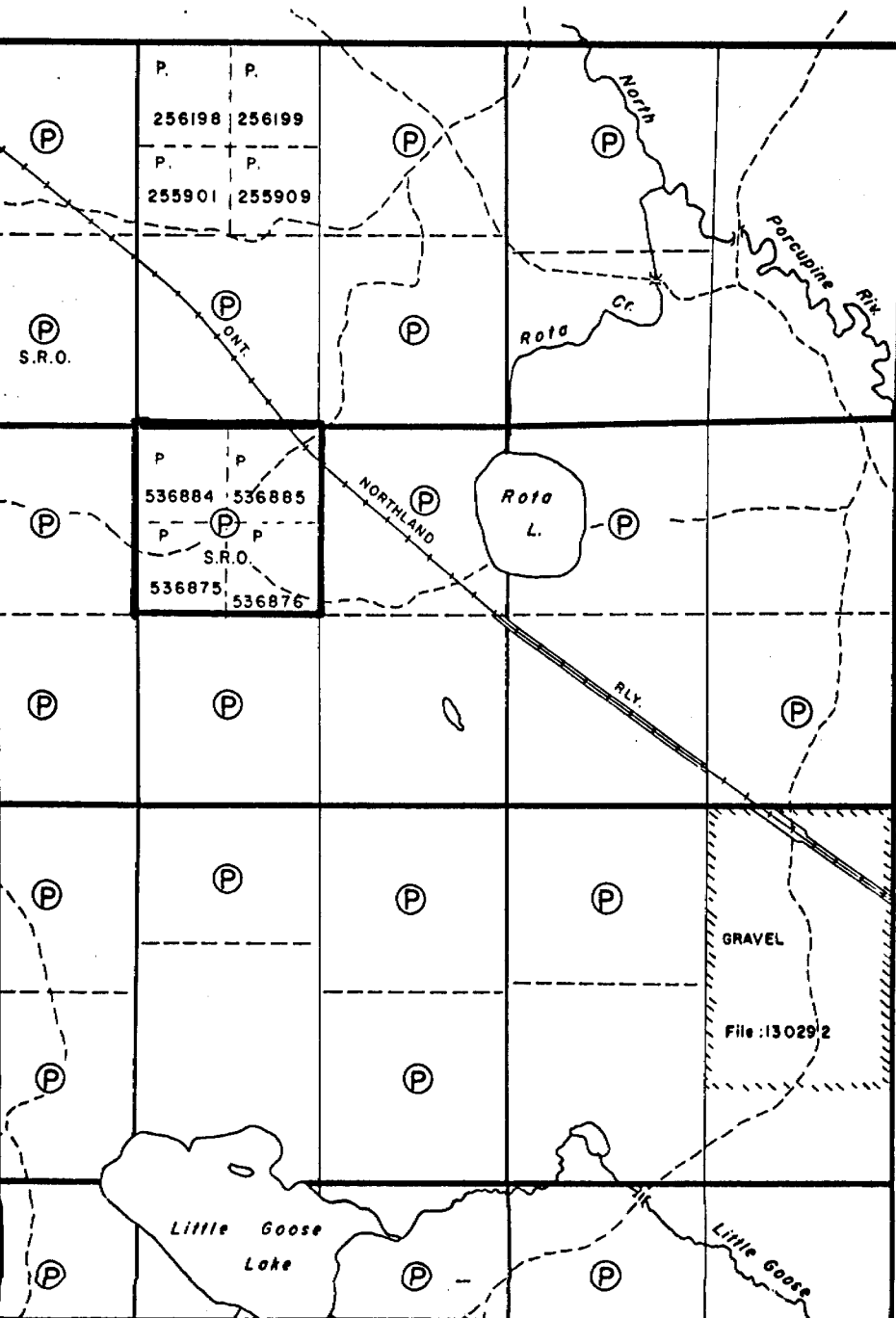
DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

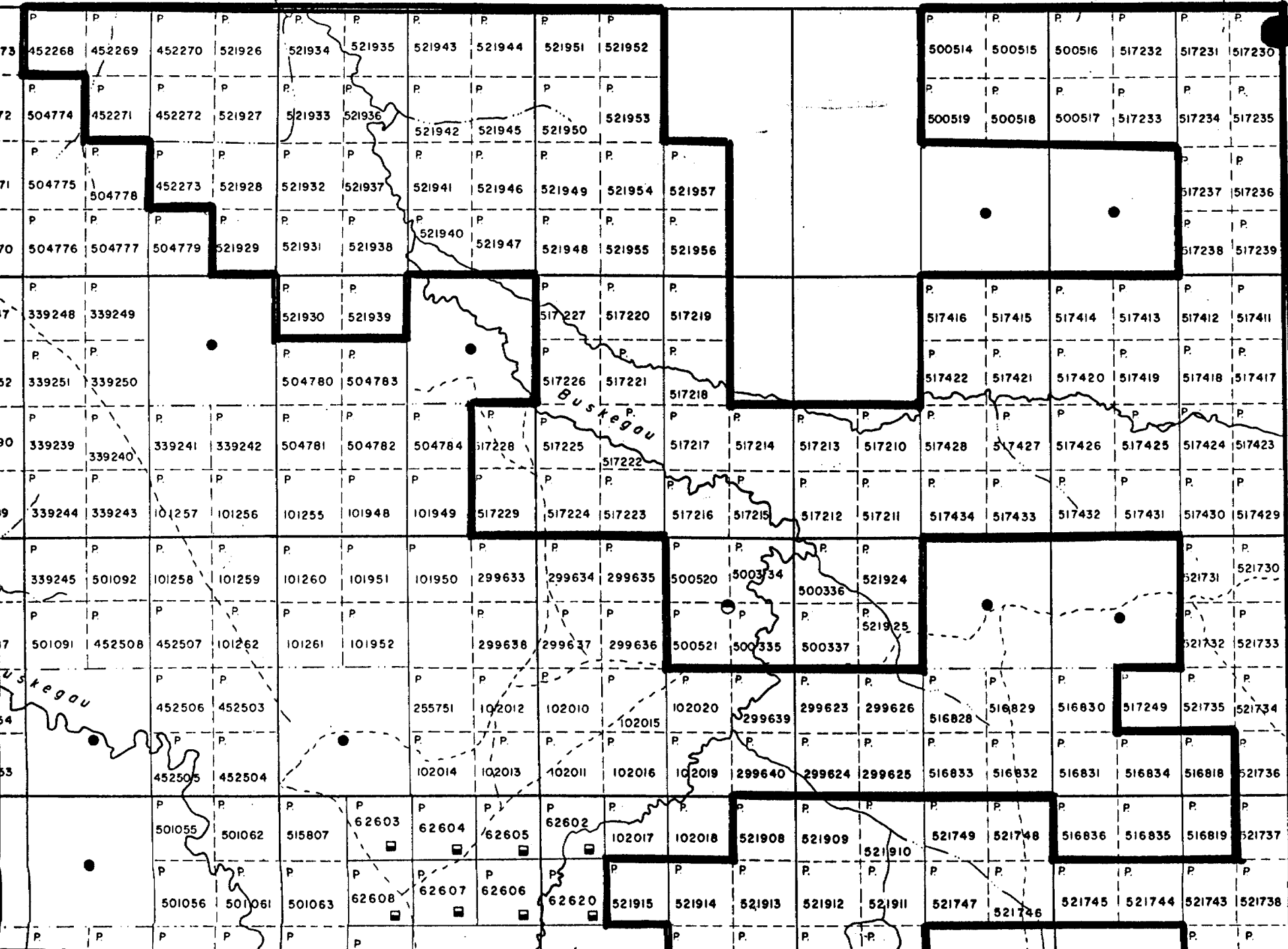
PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	=====
IMPROVED ROADS	=====
KING'S HIGHWAYS	=====
RAILWAYS	=====
POWER LINES	-----
MARSH OR MUSKEG	-----
MINES	✕
CANCELLED	C.
PATENTED S.R.O.	●



E TWP. - M.287

DUFF Tp. M.466

Tully

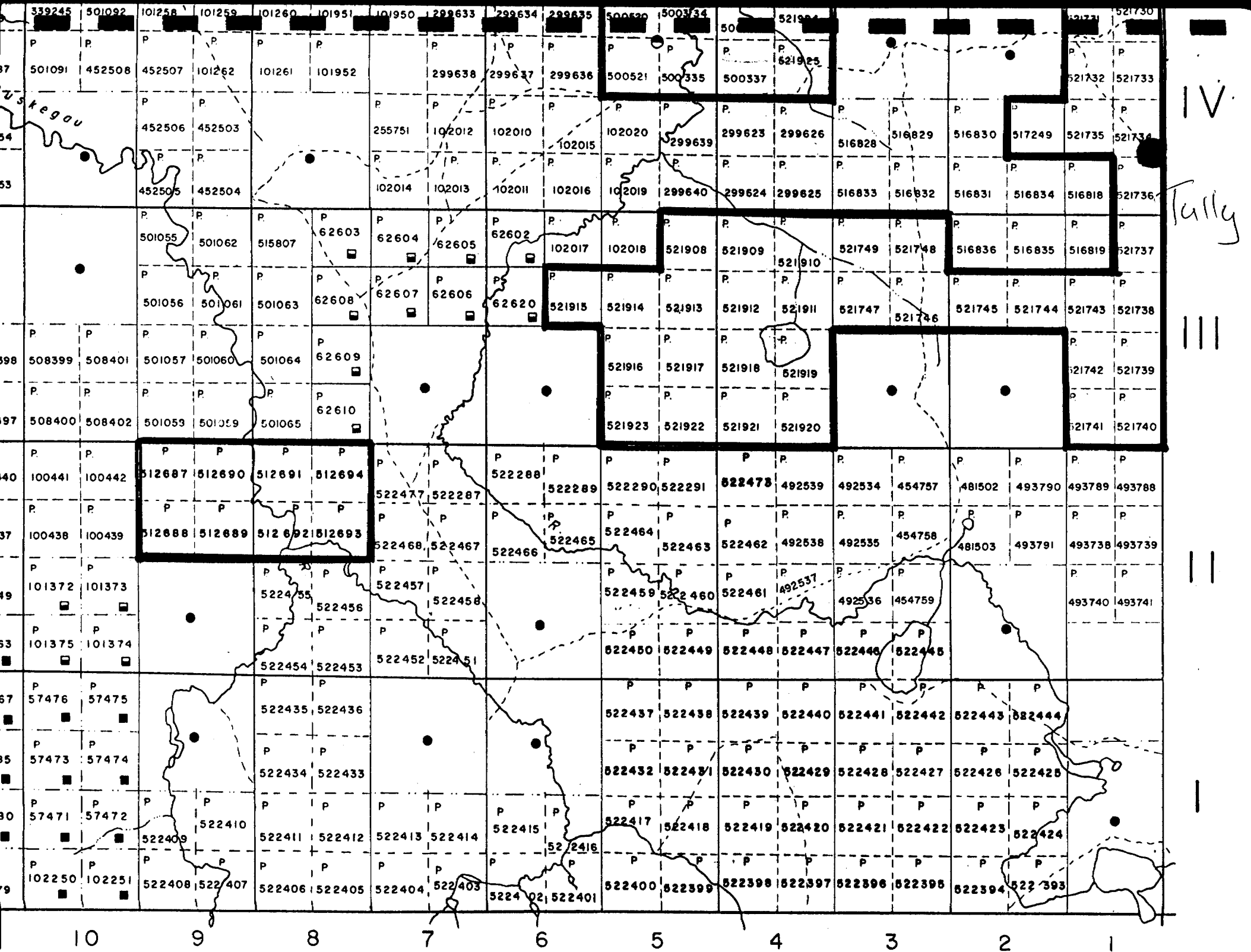


VI

V

IV

III



wp.

OF

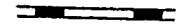



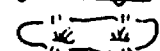
LITTLE

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

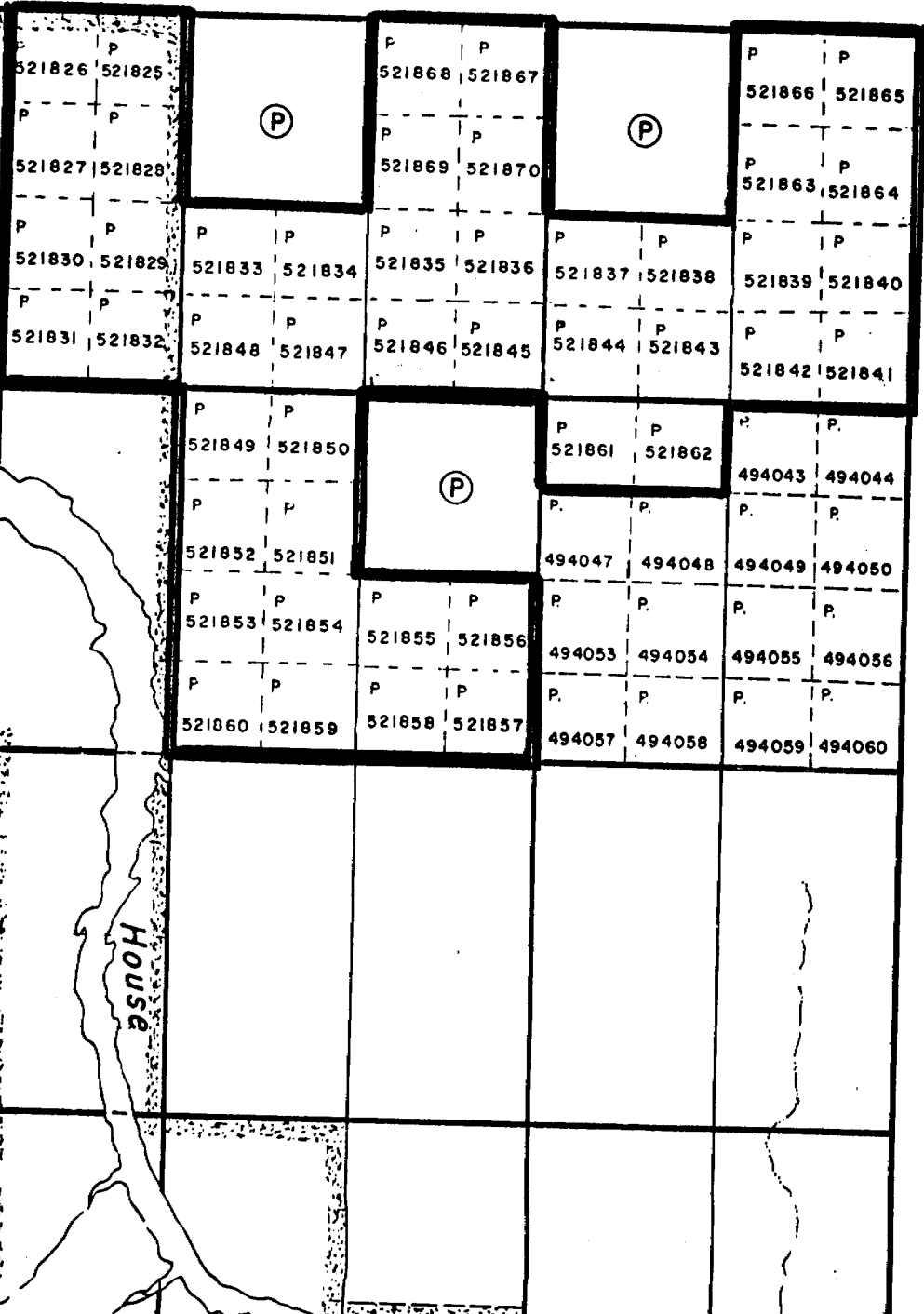
LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE C.S.
- LEASES (L)
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- ROADS 
- IMPROVED ROADS 
- RAILWAYS 
- POWER LINES 
- MARSH OR MUSKEG 

NOTES

Area reserved to H.E.P.C. for water power purposes shown thus: 

Flooding rights lands bordering the Frederick House River.



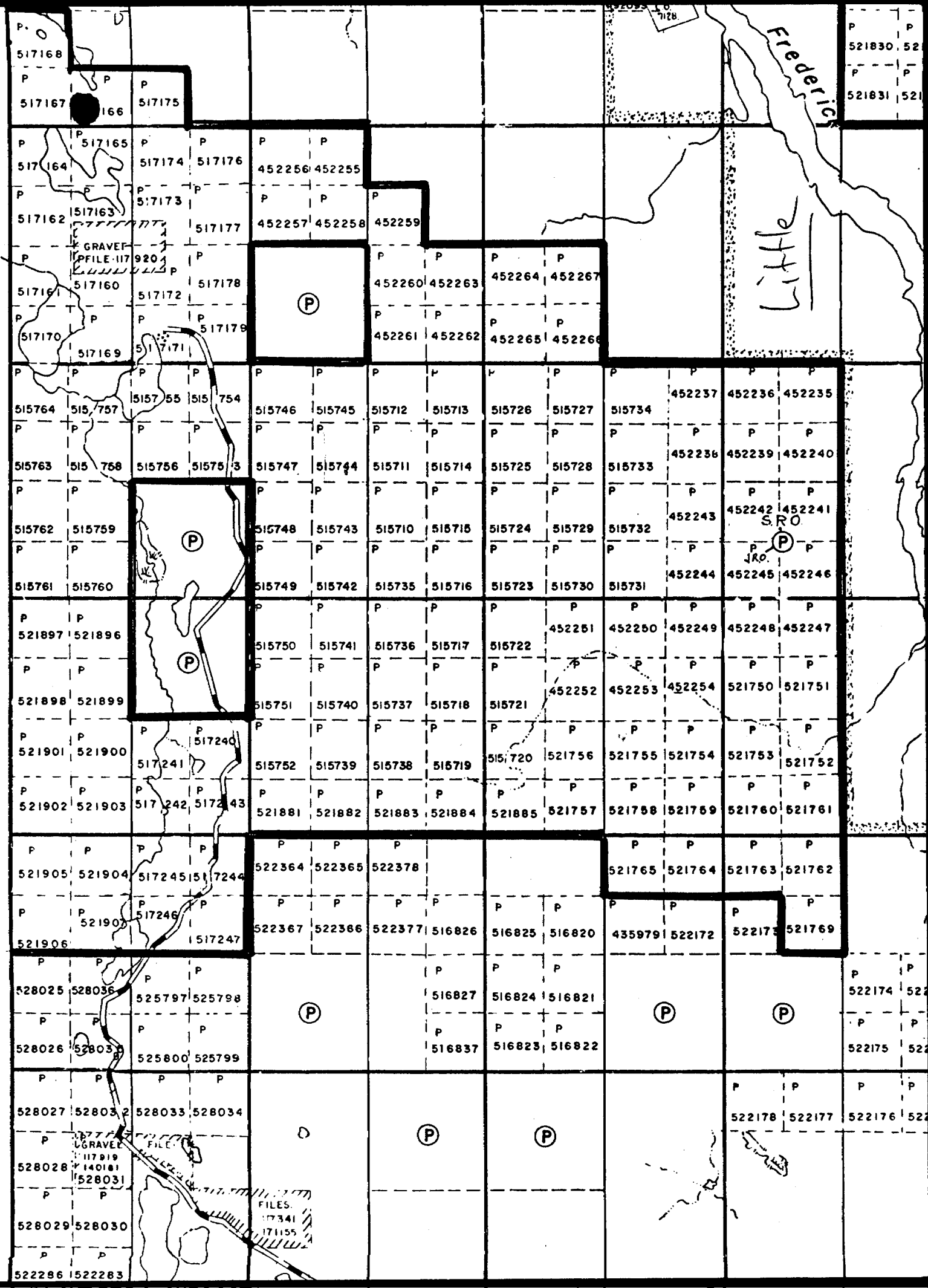
VI

V

IV

McCart Twp.

Utility map.



Frederic
Little

P P
521830 521831
P P
521831 521832

(P)

(P)

(P)

(P)

(P)

(P)

(P)

(P)

(P)

(P)

(P)

(P)

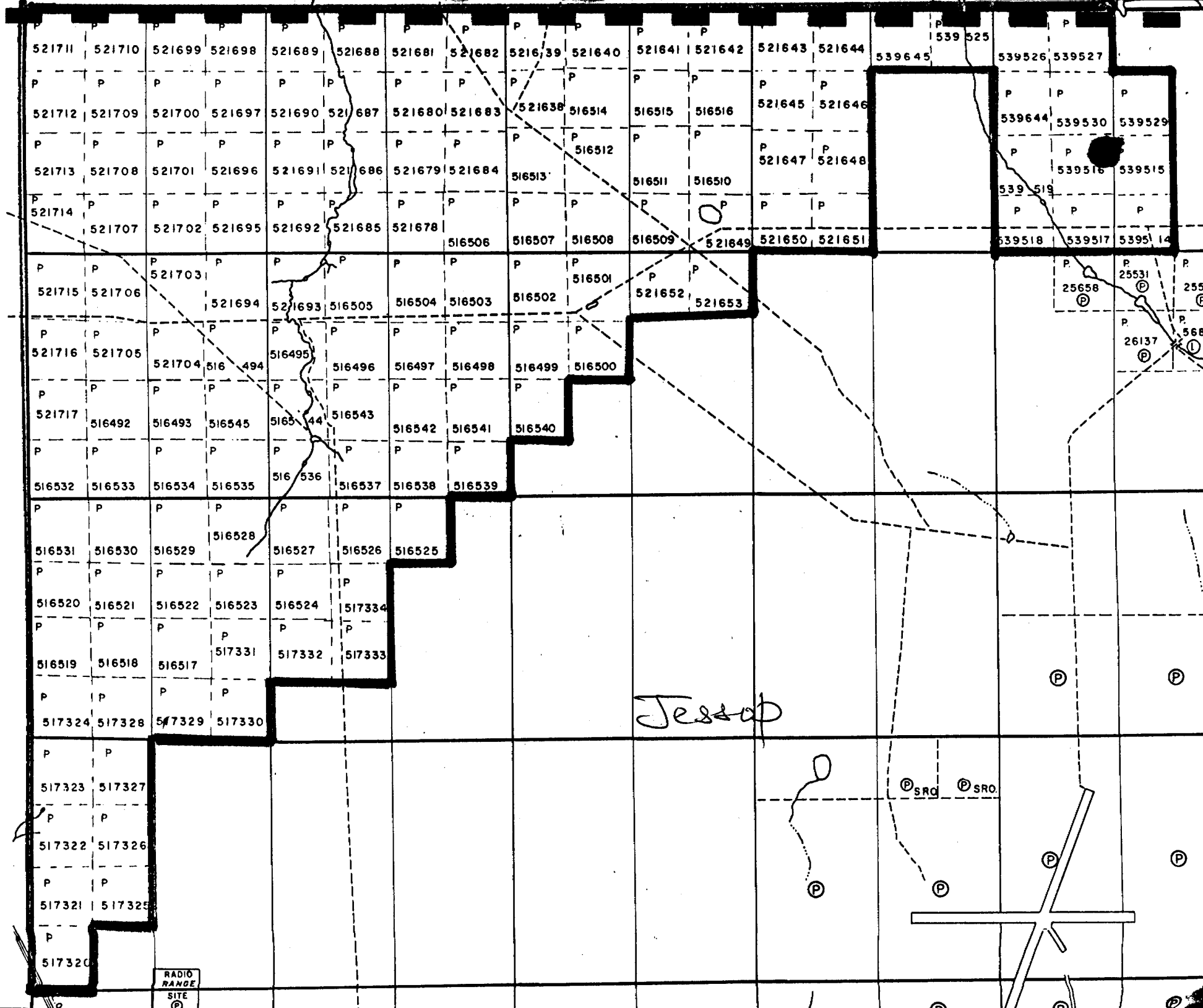
(P)

S.R.O.

GRAVE FILE 117 920

GRAVE FILE 117 919
GRAVE FILE 140181
GRAVE FILE 17341
GRAVE FILE 171155

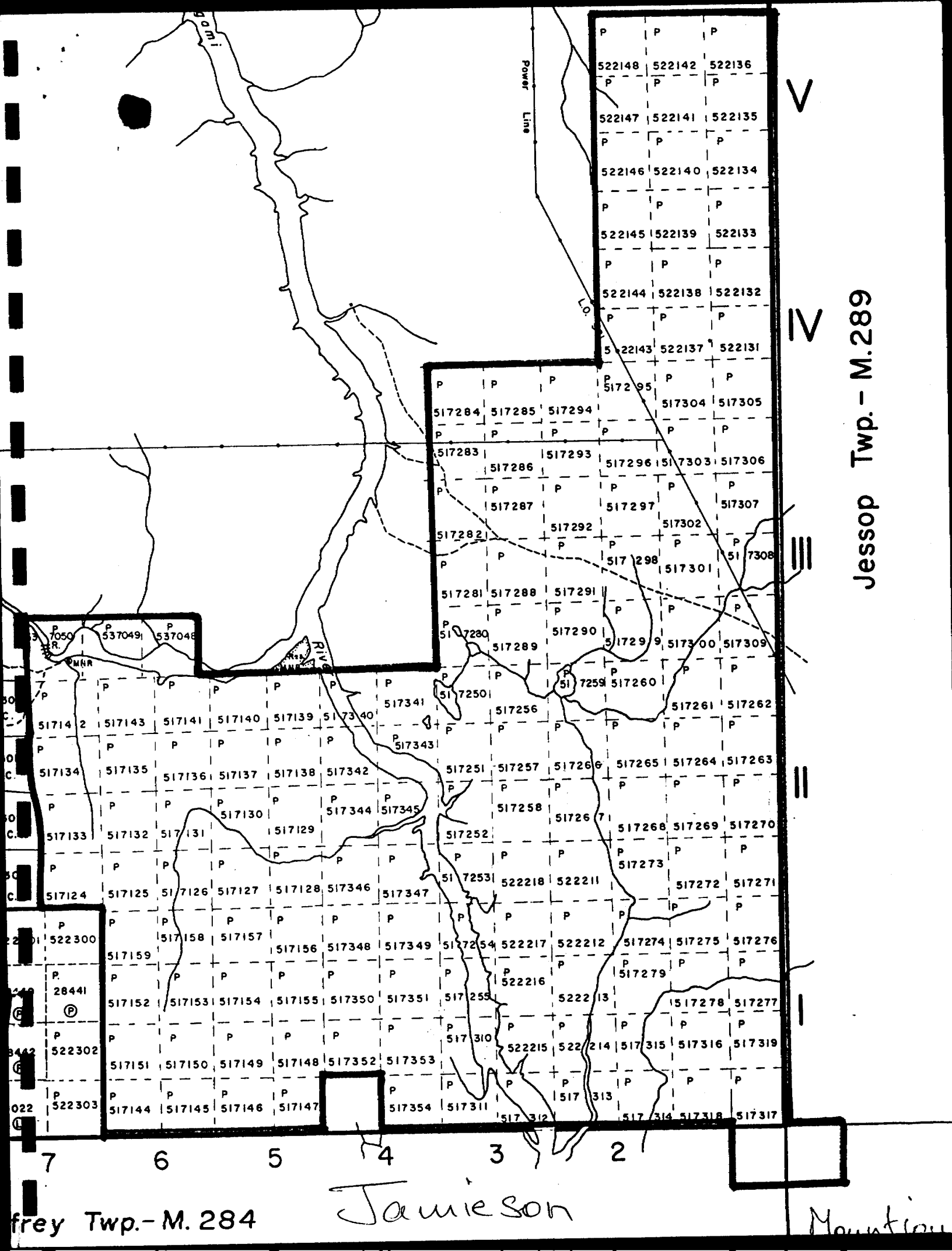
Jamieson Twp. - M.288



RADIO RANGE SITE

Jesse

SRD SRD



Jessop Twp. - M. 289

V

IV

III

II

I

Power Line

Lo

7 6 5 4 3 2

frey Twp. - M. 284

Jamieson

Mountain

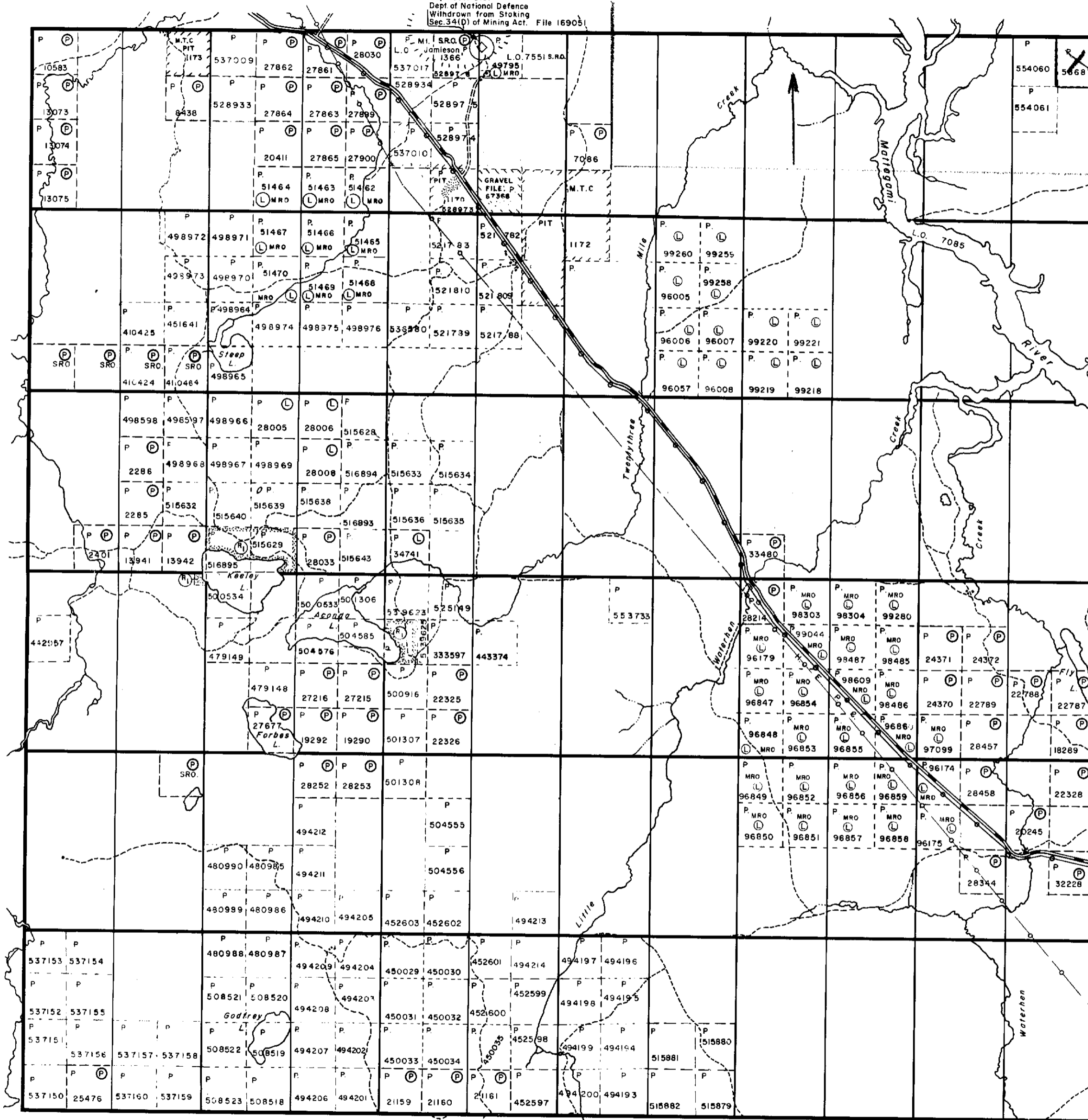
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P	P	P
522147	522141	522135
P	P	P
522146	522140	522134
P	P	P
522145	522139	522133
P	P	P
522144	522138	522132
P	P	P
522143	522137	522131
P	P	P
517284	517285	517294
P	P	P
517283	517286	517293
P	P	P
517282	517287	517292
P	P	P
517281	517288	517291
P	P	P
517280	517289	517290
P	P	P
517250	517256	517260
P	P	P
517251	517257	517266
P	P	P
517252	517258	517267
P	P	P
517253	522218	522211
P	P	P
517254	522217	522212
P	P	P
517255	522216	522213
P	P	P
517310	522215	522214
P	P	P
517311	517312	517313
P	P	P
517314	517318	517317

P	P	P
537049	537048	
P	P	P
517142	517143	517140
P	P	P
517134	517135	517136
P	P	P
517133	517132	517131
P	P	P
517124	517125	517126
P	P	P
522300	517158	517157
P	P	P
28441	517152	517153
P	P	P
522302	517151	517150
P	P	P
522303	517144	517145
P	P	P
	517146	517147
P	P	P
	517352	517353
P	P	P
	517354	517311

Jamieson Twp. (M.288)

Gap Radar Sta.
Dept. of National Defence
Withdrawn from Staking
Sec.34(D) of Mining Act. File 16905

Turnbull Twp. (M.316)



VI

V

IV

III

II

Mountjoy Twp. (M.302)

THE TOWNSHIP OF
OF
2.3030
GODFREY

DISTRICT OF
COCHRANE

PORCUPINE
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	⊙
PATENTED S.R.O.	⊙

NOTES

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

Flooding rights on either side of the Mattagami to H.E.P.C.

This township lies within the Municipality of CITY of THAMMINS.

Reservations:
Ⓝ - Reserved for recreational purposes under Sec.3 P.L.A. File 188543.

DATE OF ISSUE
APR - 3 1980
SURVEYS AND MAPPING
BRANCH

PLAN NO. **M.284**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Bristol Twp. (M.264)



Macdiarmid Twp.- M. 294

THE TOWNSHIP
OF

JAMIESON

DISTRICT OF
COCHRANE

PORCUPINE
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 X
- CANCELLED C.

NOTES

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

Flooding rights to areas along Mattagami River to H.E.P.C. - L.O. 7085

This township lies within the Municipality of City of Timmins.

DATE OF ISSUE
AUG 31 1979
 SURVEYS AND MAPPING
 BRANCH

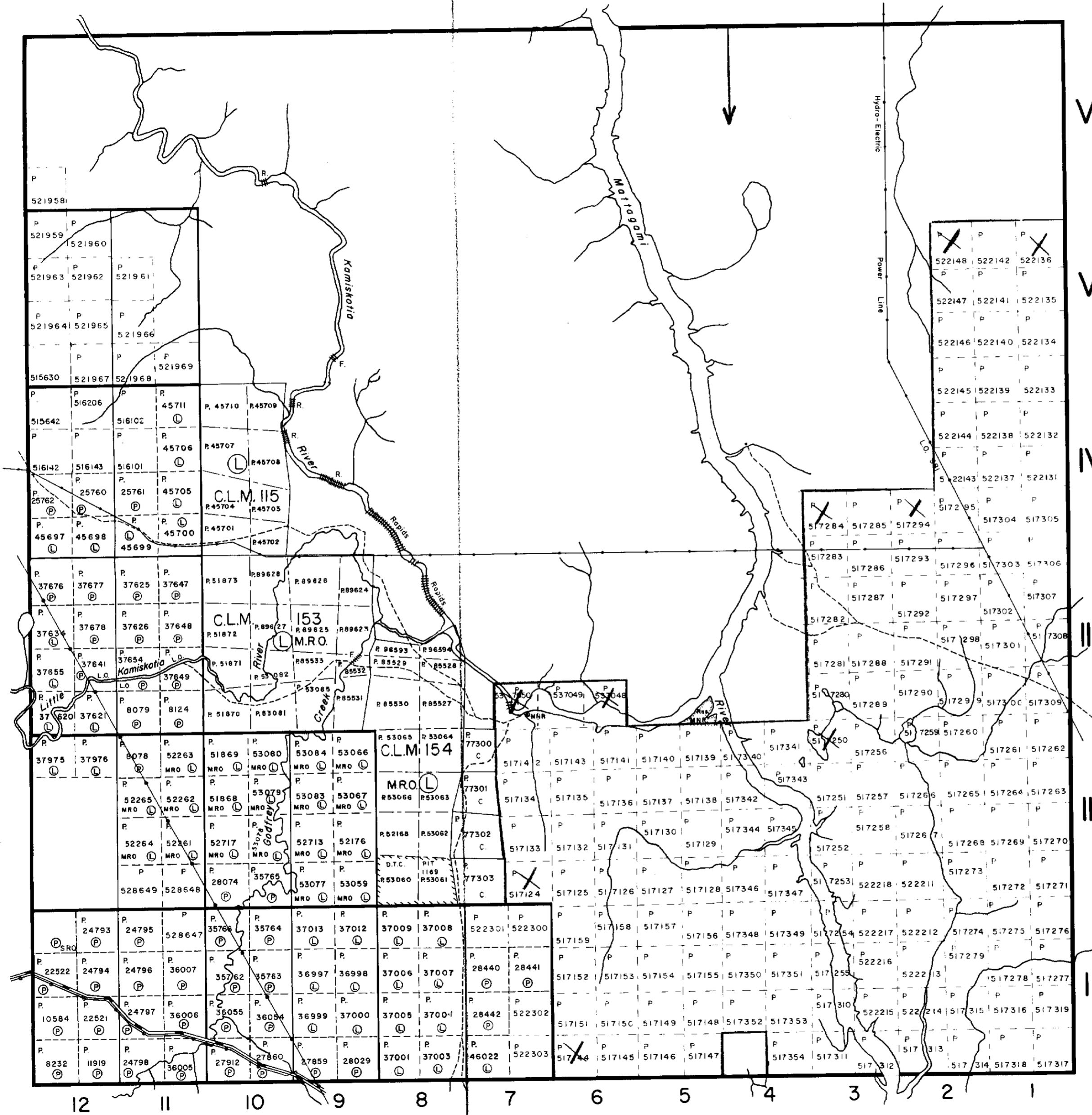
PLAN NO.- **M.288**

ONTARIO
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

Robb Twp.- M.309

Jessop Twp.- M.289



Godfrey Twp.- M. 284



Kidd Twp. - M.291

THE TOWNSHIP OF
OF
JESSOP

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 MUSKEG (---)
- MINES (---)
- CANCELLED (C)

NOTES

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

This township lies within the Municipality of CITY of TIMMINS.

(R) - S.R.O. Withdrawn from Staking under Sec. 42 of The Mining Act (R.S.O. 60). Files: IC8158, 110302.

Areas withdrawn from staking under Section of the Mining Act. (R.S.O. 1970)

File	Date	Disposition
470 W. 63/77	7596 V. 1:108371	Sept 12, 1977 M.R. R.S.R.

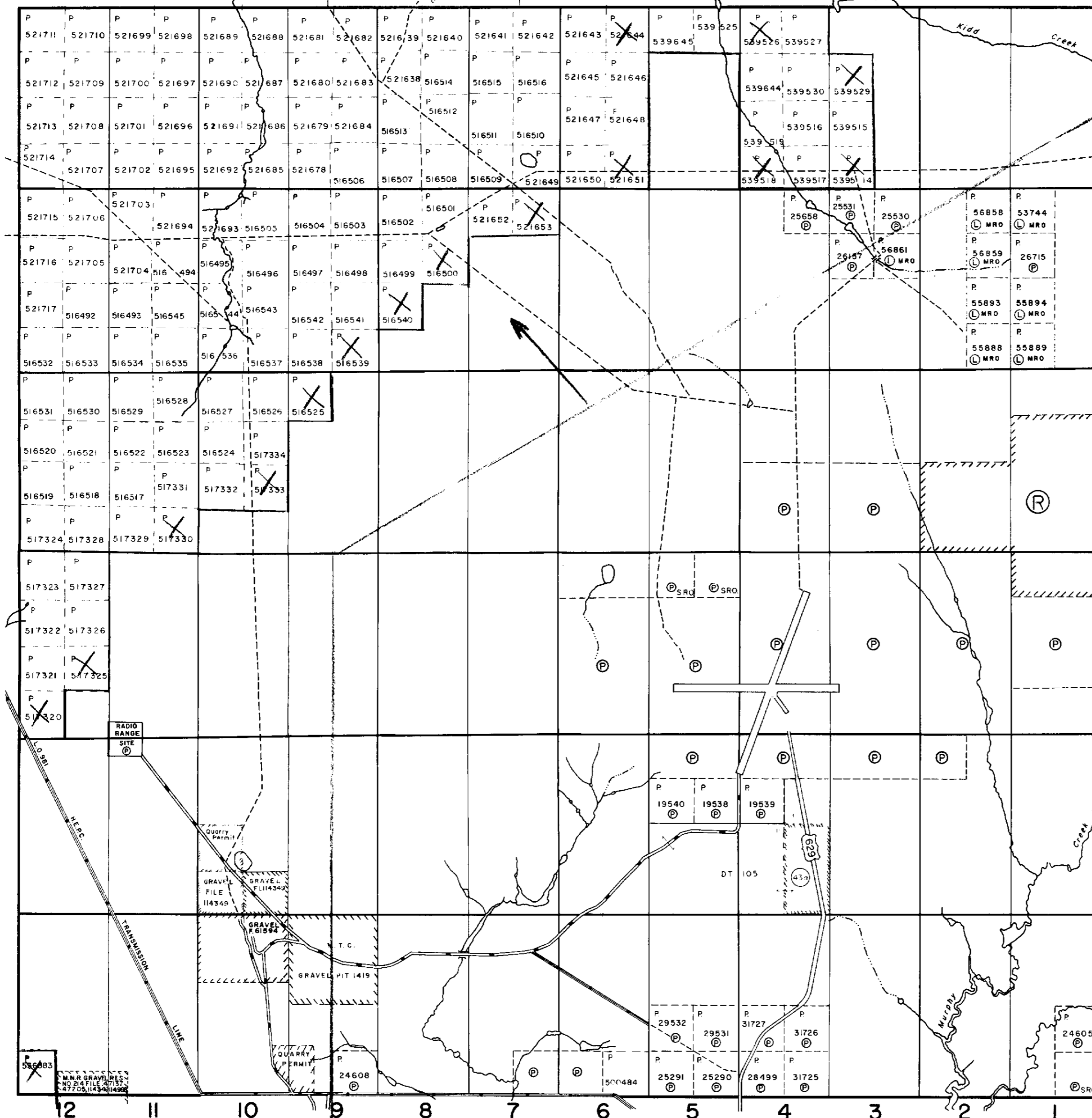
DATE OF ISSUE

AUG 31 1979

SURVEYS AND MAPPING
BRANCH

PLAN NO. **M.289**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Mountjoy Twp. - M.302



REID TWP. - M.575

THE TOWNSHIP
OF
MACDIARMID

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	L.O.C.
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	X
CANCELLED	○

NOTES

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

Flooding rights to areas along Mattagami River reserved to H.E.P.C. - L.O. 7085.

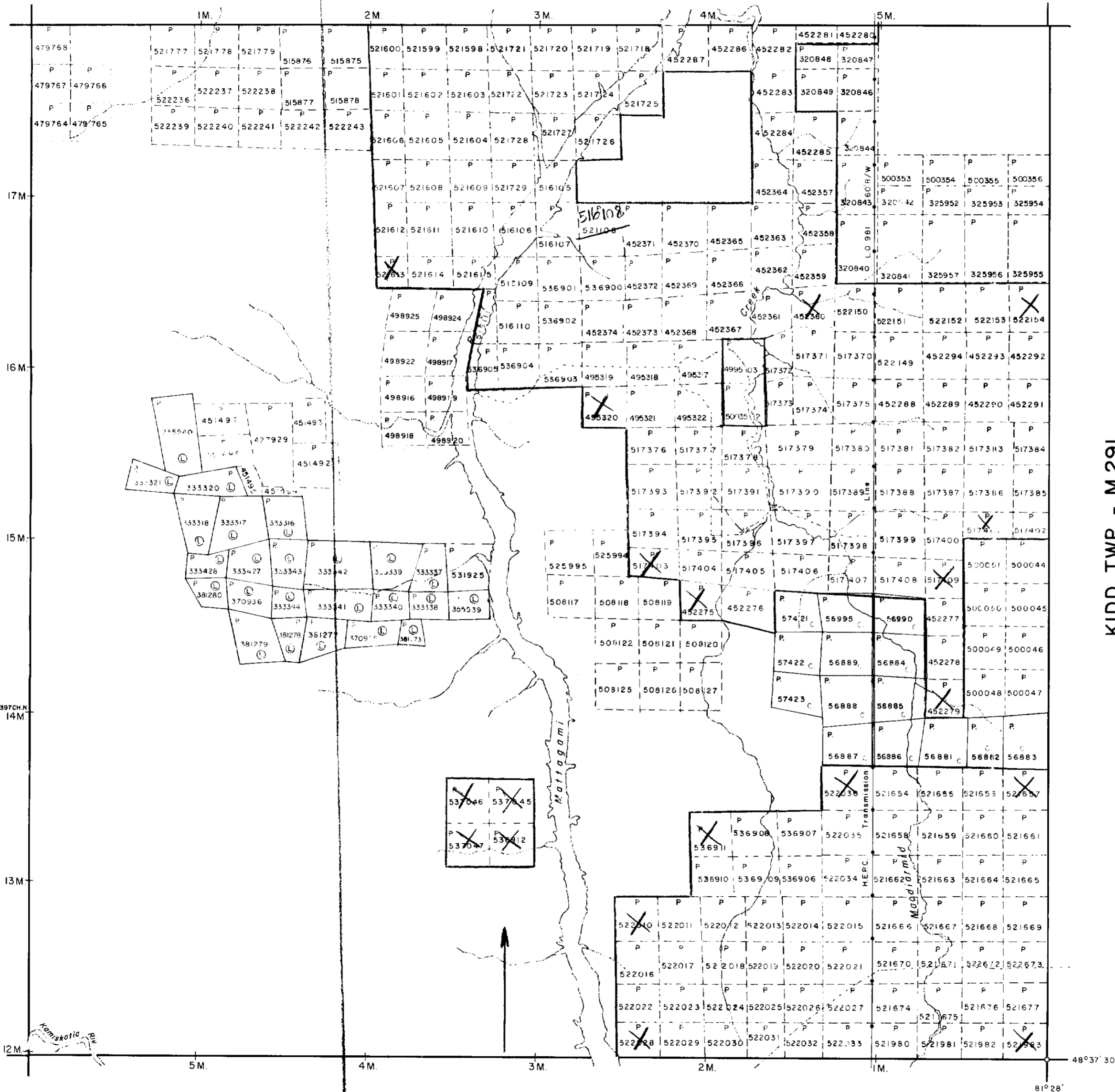
This township lies within the Municipality of CITY of TIMMINS.

DATE OF ISSUE
AUG 31 1979
SURVEYS AND MAPPING
BRANCH

PLAN NO. **M.294**
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

LOVELAND TWP. - M.293

KIDD TWP. - M.291



JAMIESON TWP. - M.288



THE TOWNSHIP
OF 2.3030
MOUNT JOY

DISTRICT OF
COCHRANE
PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE LEASES (S) or (C.S.)
- LOCATED LAND (L)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KINGS HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- GEODECTIC STATION
- WATER POWER LEASE (W.P.L.)
- PATENTED S.R.O.

NOTES

400' Surface rights reservation around all lakes & rivers.
This township lies within the Municipality of CITY OF TIMMINS.
Town boundary of TIMMINS shown thus: _____
NOW WITHIN THE CITY OF TIMMINS
L.O. 6613 shown thus: _____
Areas withdrawn from staking under Section 43 of the Mining Act (P.S.O. 1470)
File Date Disposition
(43) W5/74 14954 12/2/74 S.R.O.

RESERVATIONS:
(R) - reserved for purposes under Sec. 3 P.L.A. File 188543.

DATE OF ISSUE
APR - 2 1980
SURVEYS AND MAPPING
BRANCH

PLAN NO. - M 302

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

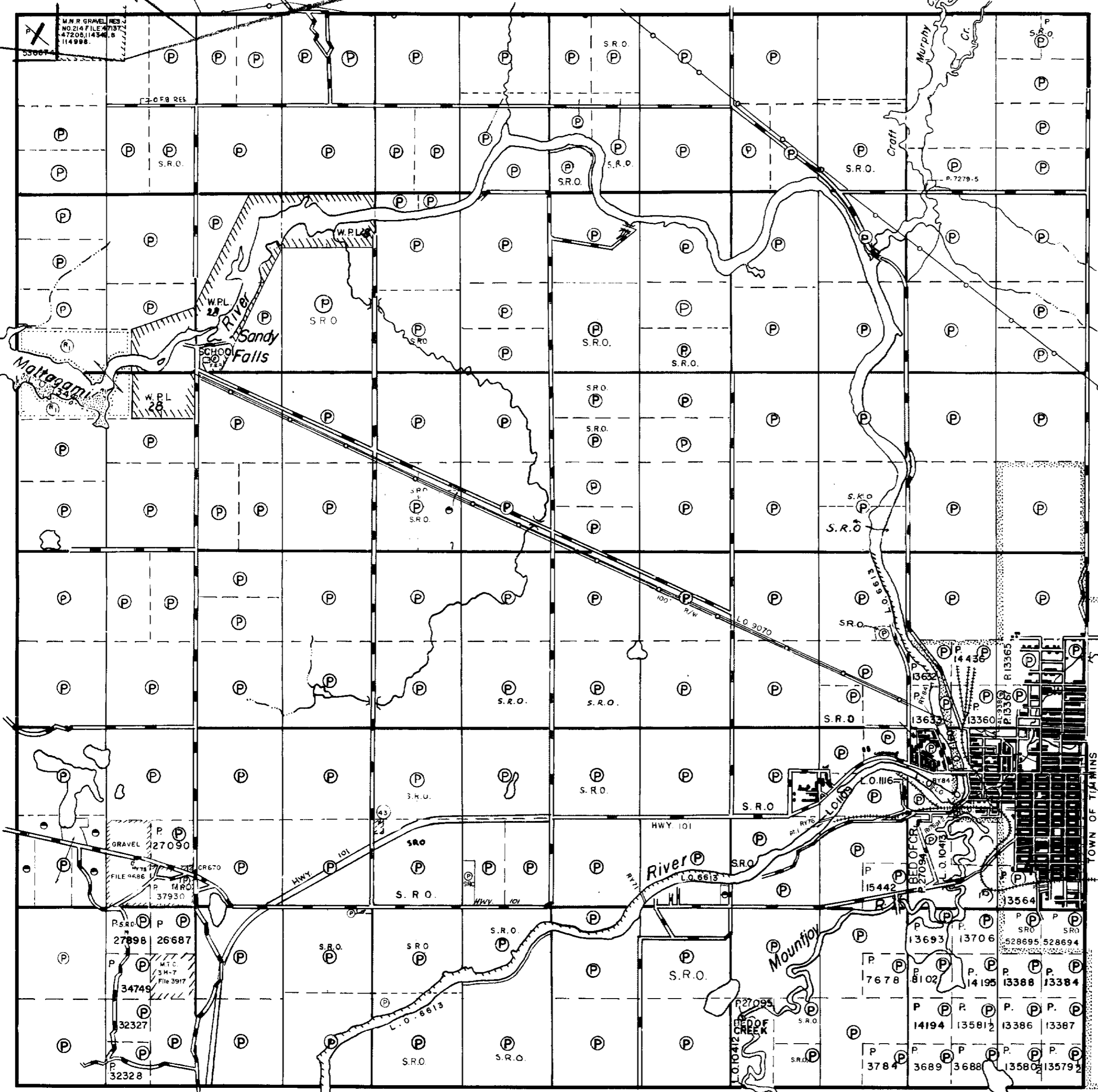
Godfrey Twp.

Jessop Twp.

Odgen Twp.

VI
V
IV
III
II
I

Tisdale Twp.



12 11 10 9 8 7 6 5 4 3 2 1



WARK TWP. - M.317

THE TOWNSHIP OF 23050

MURPHY

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 MUSKEG
- MINES
- CANCELLED
- PATENTED S.R.O. (C)

NOTES

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

This township lies within the Municipality of CITY of TIMMINS.

Ont. Northland Rwy. spur line R/W for S.R.O. see file 177607.

RESERVATIONS:

(R) - Reserved for recreational purposes under Sec. 3 P.L.A. File 188543

DATE OF ISSUE

FEB 21 1980

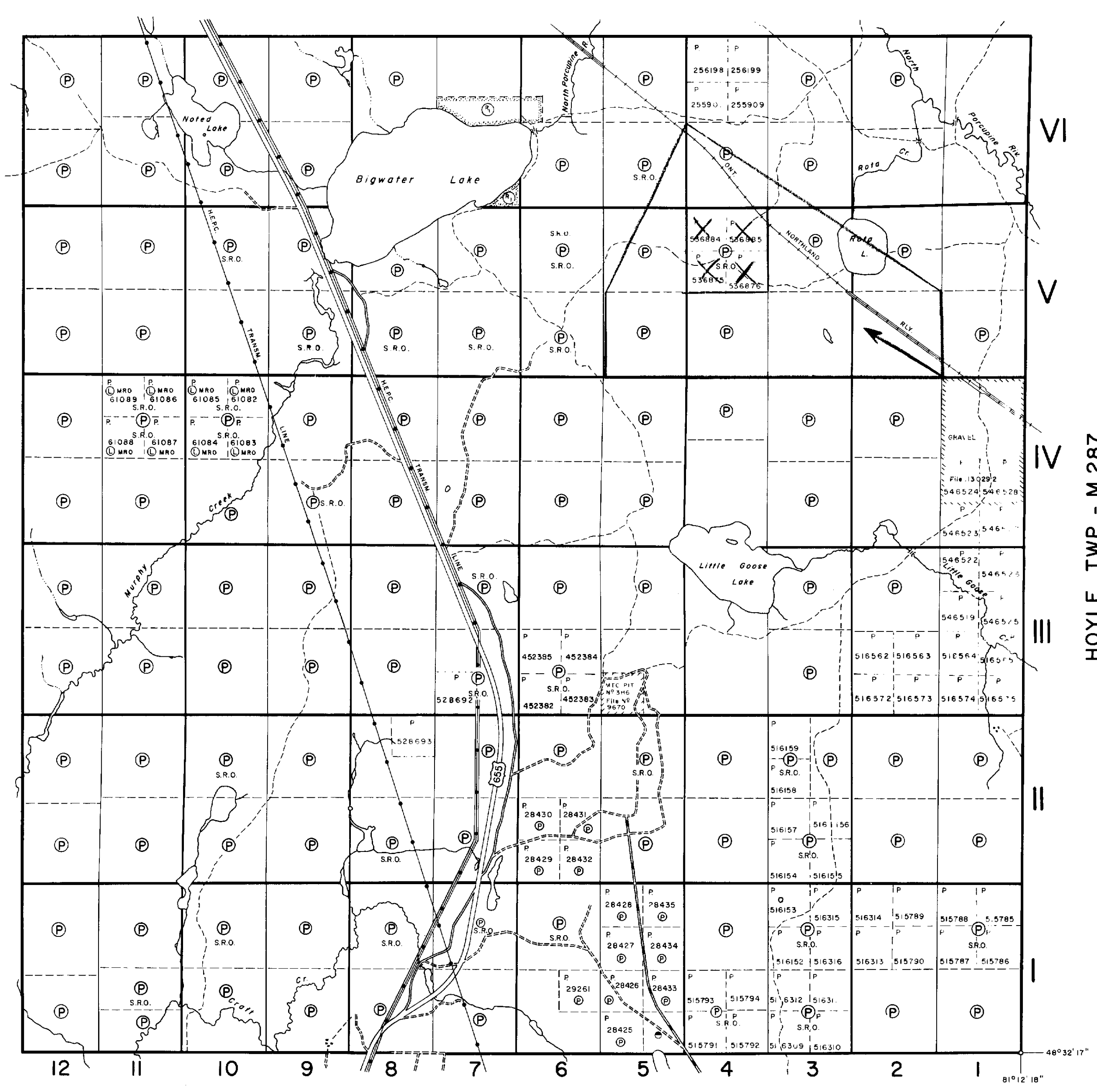
SURVEYS AND MAPPING BRANCH

PLAN NO. M.303

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

JESSOP TWP. - M.289

HOYLE TWP. - M.287



TISDALE TWP. - M.315



Mann Twp.

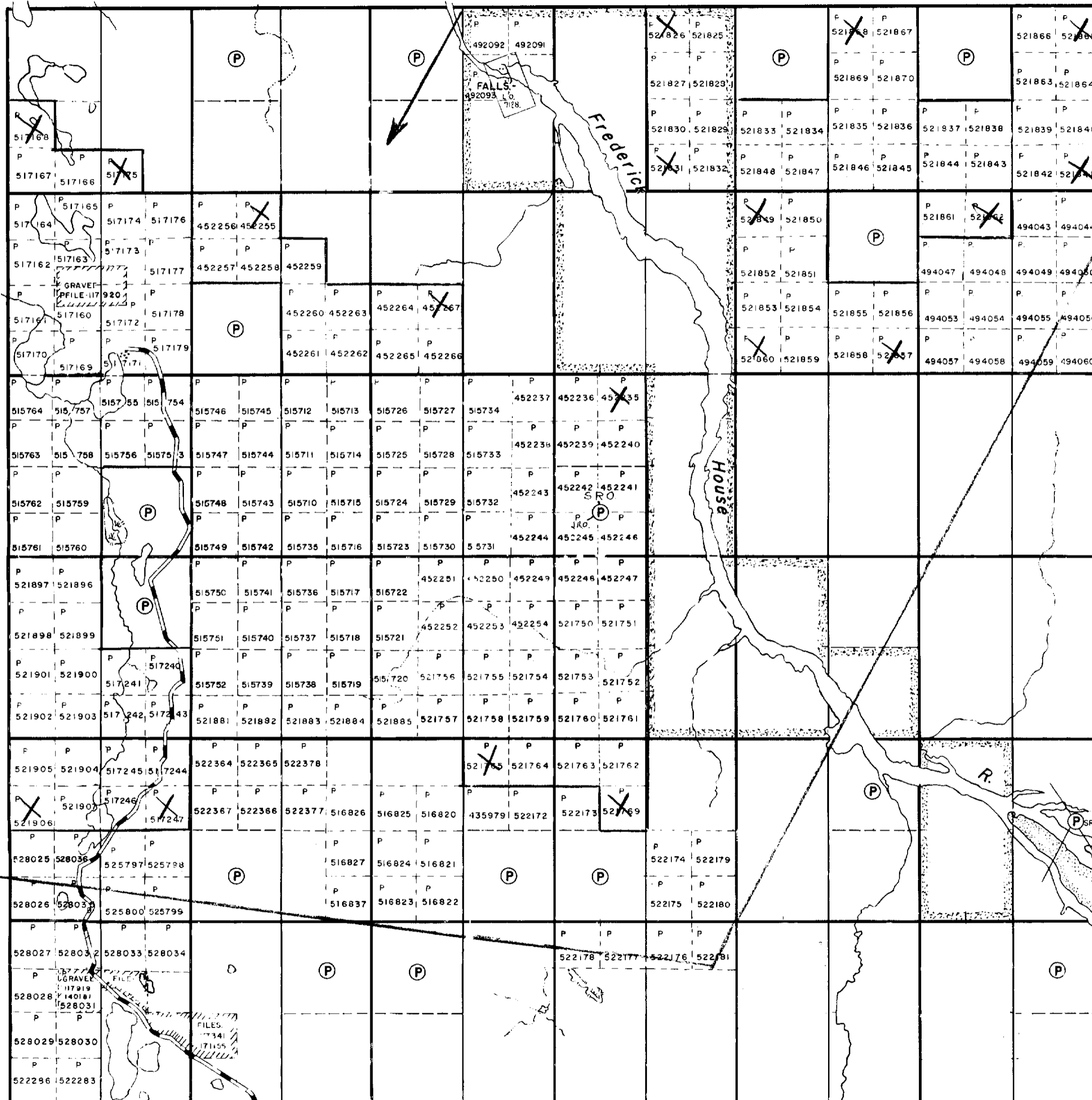
THE TOWNSHIP OF
OF
LITTLE

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

Tully Twp.



VI

V

IV

III

II

I

McCart Twp.

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (Loc.)
- LICENSE OF OCCUPATION (L.O.)
- ROADS
- IMPROVED ROADS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG

NOTES

Area reserved to H.E.P.C. for water power purposes shown thus: [Symbol]

Flooding rights lands bordering the Frederick House River.

400' Surface Rights Reservation around all Lakes and Rivers.

DATE OF ISSUE
AUG 31 1979
SURVEYS AND MAPPING
BRANCH

PLAN NO. — M. 535

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Evelyn Twp.



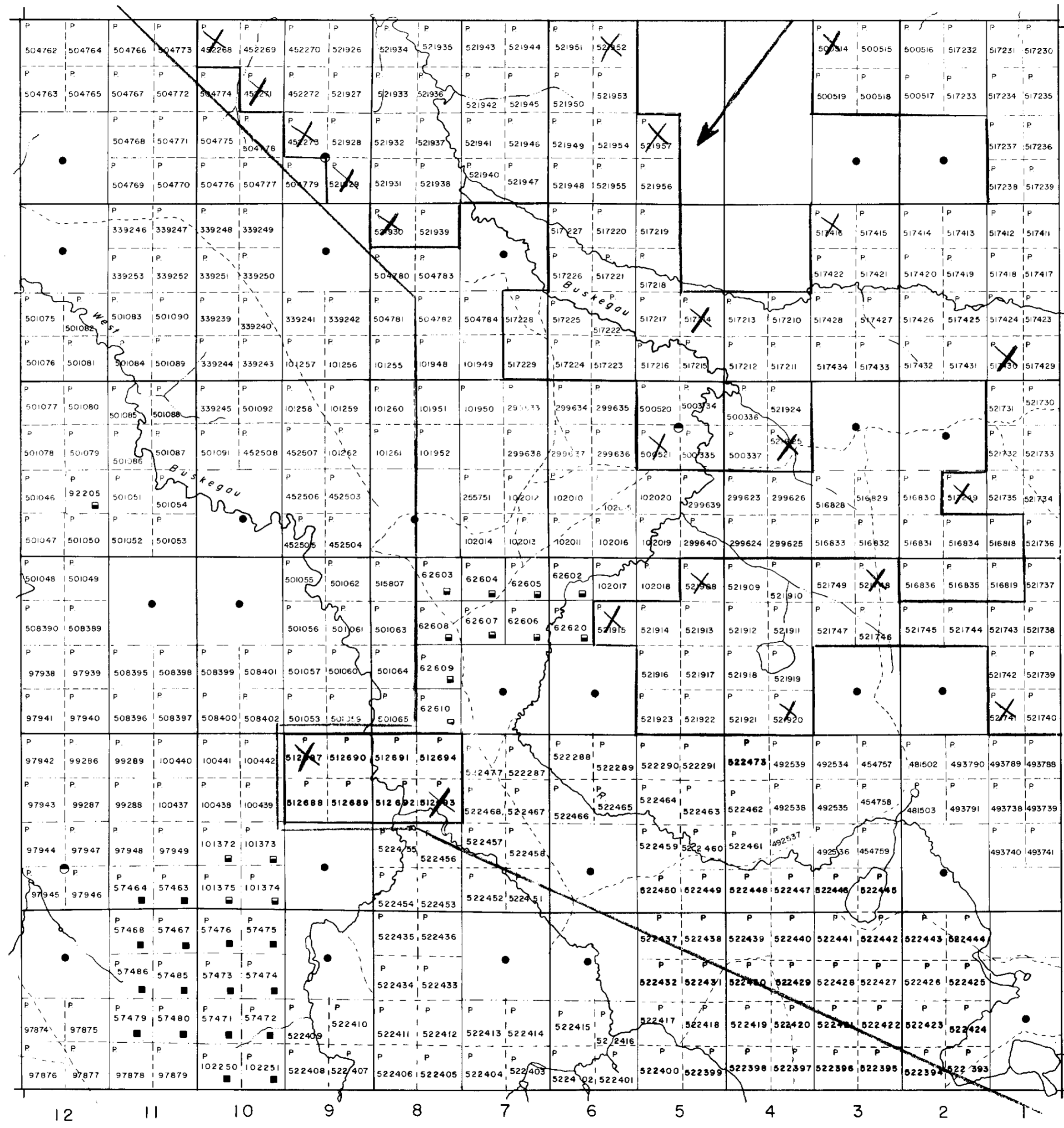
NOTES

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

DUFF Tp. M.466

PROSSER Tp. M.571

GOWAN Tp. M.285

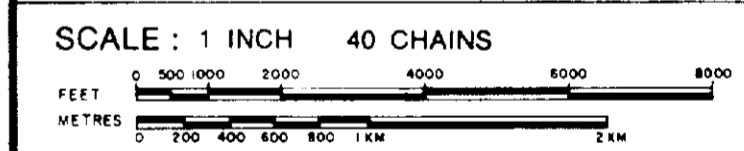


LEGEND

- 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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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	CS
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕



ACRES	HECTARES
40	16

TOWNSHIP 2

TULLY

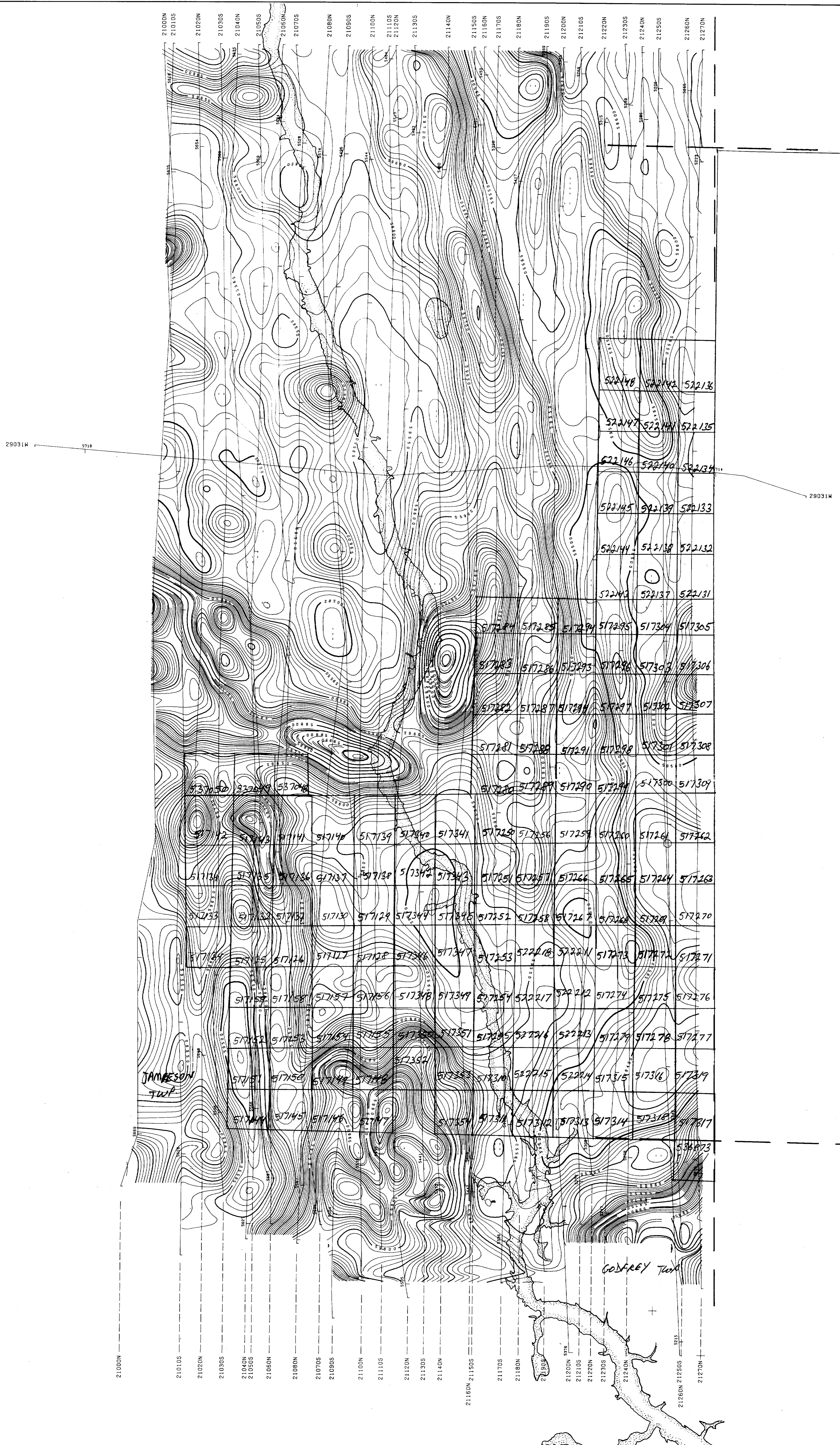
DISTRICT
COCHRANE
MINING DIVISION
PORCUPINE

Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date Nov. 1978 Plan No. M.607
Whitney Block Queen's Park, Toronto

DATE OF ISSUE
AUG 31 1979
SURVEYS AND MAPPING
BRANCH



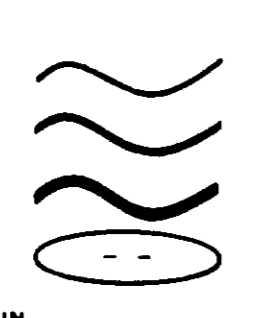


TIMMINS AREA

Map 1 of 2 Scale - 1" = 520 feet 21005 Bk. B
ISOMAGNETIC INTERVAL

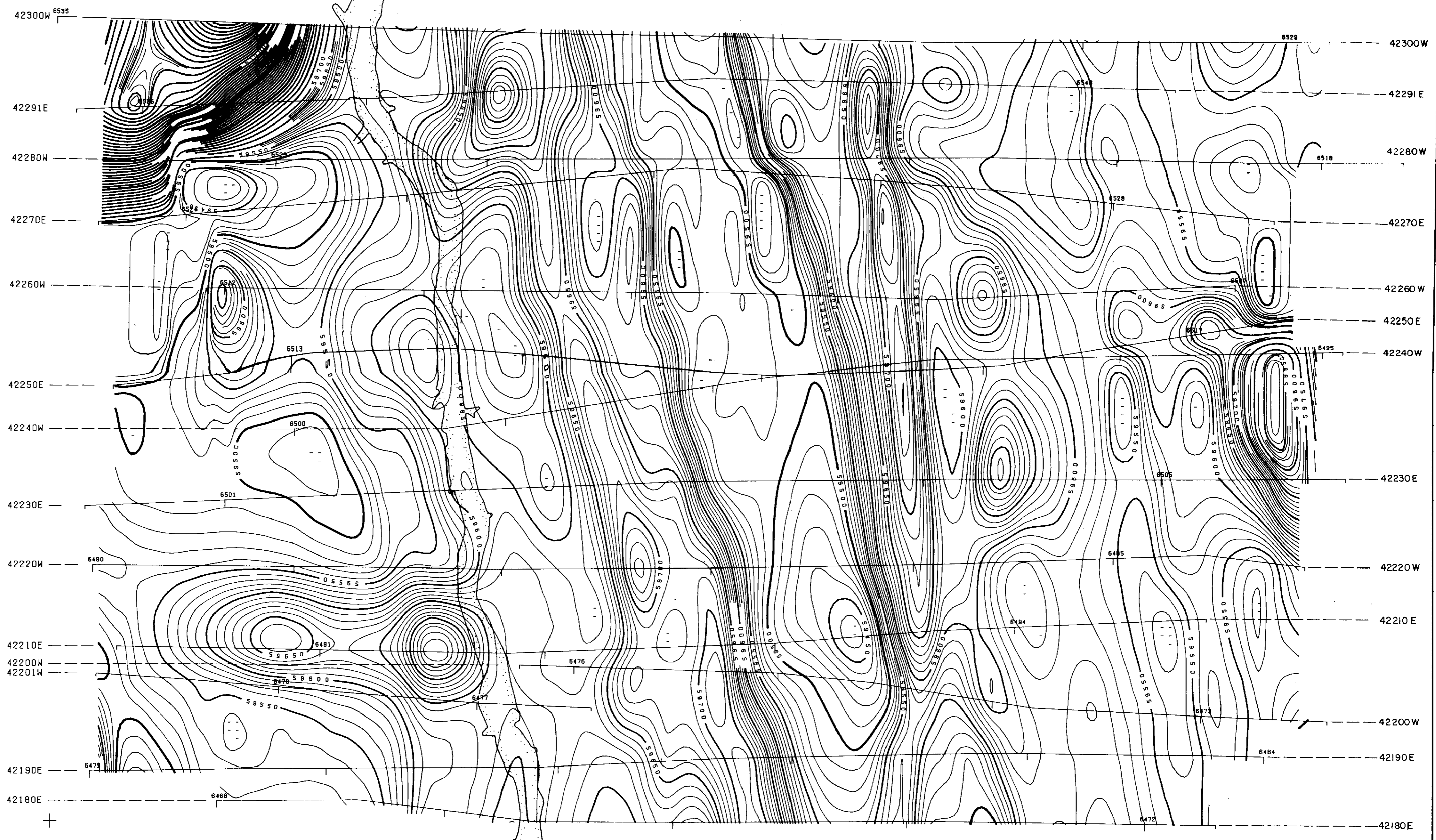
(TOTAL FIELD)

- 10 GAMMA CONTOUR LINE
- 50 GAMMA CONTOUR LINE
- 500 GAMMA CONTOUR LINE
- MAGNETIC DEPRESSION
- FLIGHT ALTITUDE 400' ABOVE TERRAIN



Jamieson
 R. J. de Carle





TIMMINS AREA

Map 2 of 2 Scale - 1"=1320 feet 21005 BR.B

ISOMAGNETIC INTERVAL

(TOTAL FIELD)

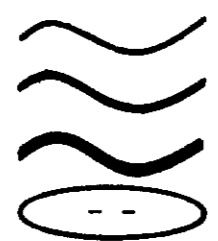
10 GAMMA CONTOUR LINE

50 GAMMA CONTOUR LINE

500 GAMMA CONTOUR LINE

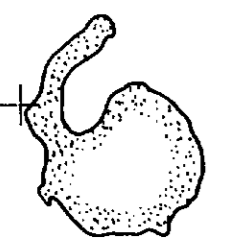
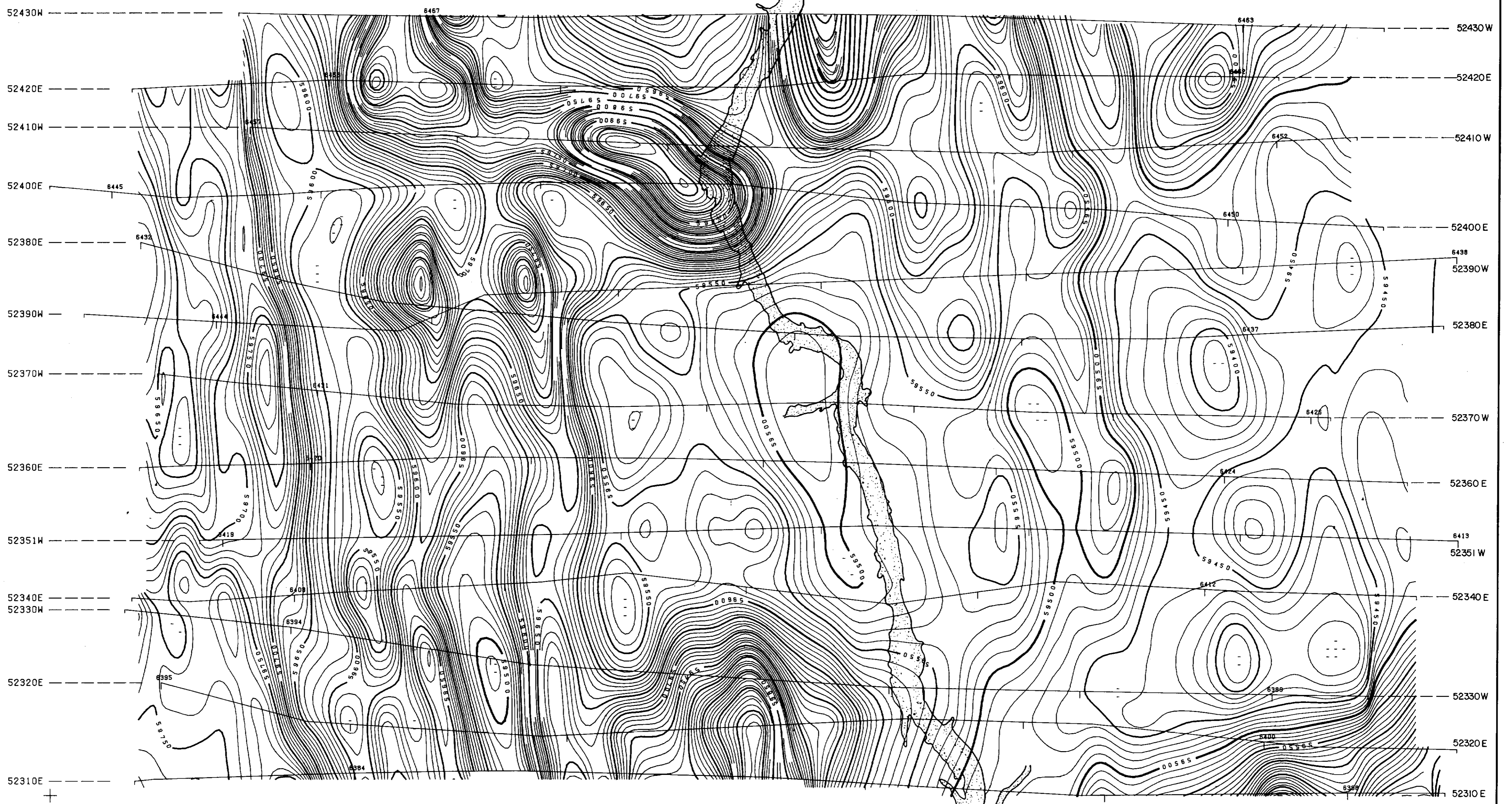
MAGNETIC DEPRESSION

FLIGHT ALTITUDE 400' ABOVE TERRAIN



Timmins
R. J. de Carle





TIMMINS AREA

Map 1 of 2 Scale - 1" = 320 feet 21005 Bk. B

ISOMAGNETIC INTERVAL

(TOTAL FIELD)

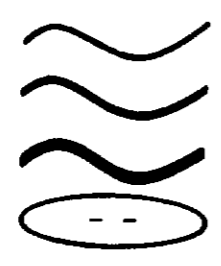
10 GAMMA CONTOUR LINE

50 GAMMA CONTOUR LINE

500 GAMMA CONTOUR LINE

MAGNETIC DEPRESSION

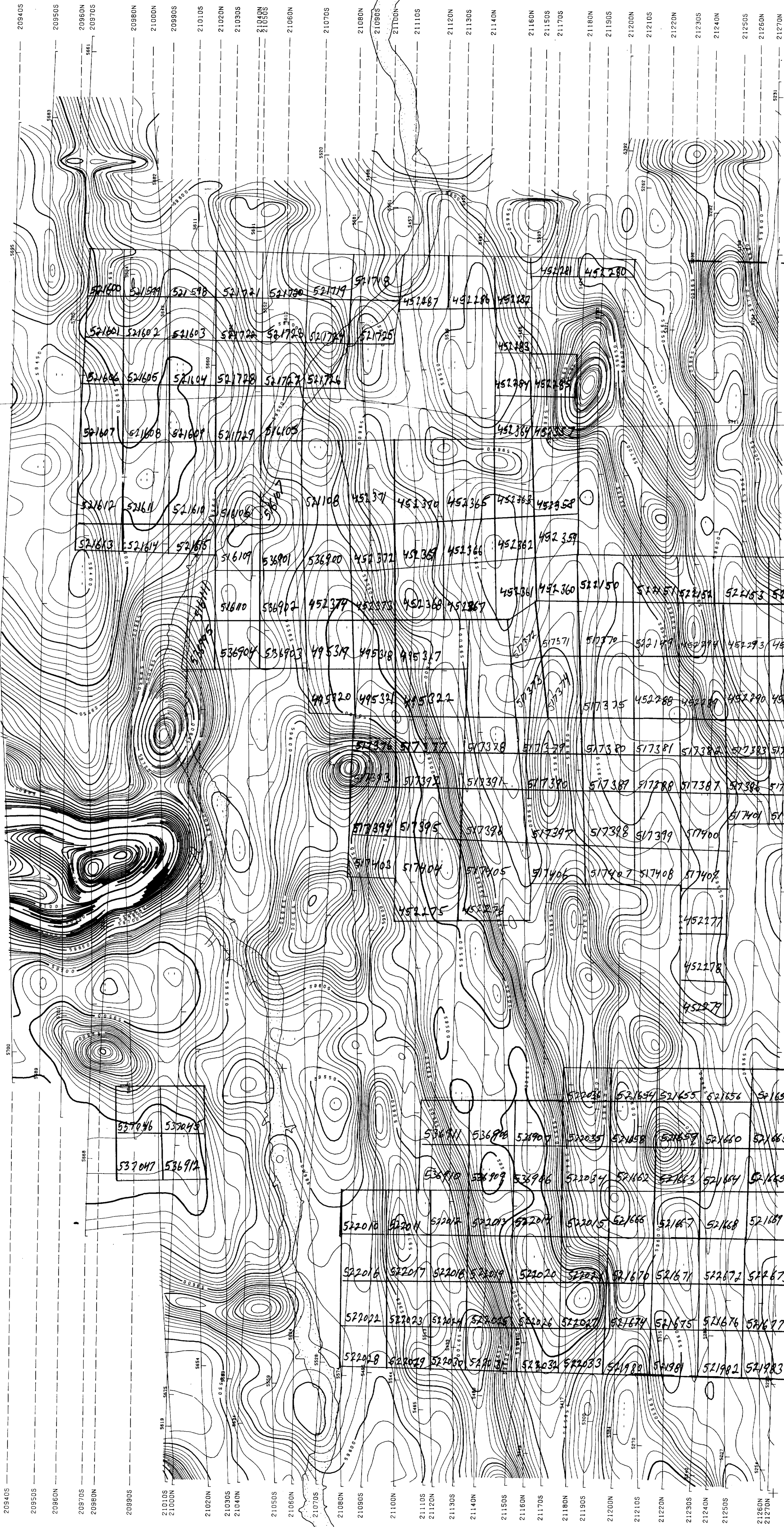
FLIGHT ALTITUDE 400' ABOVE TERRAIN



*Continental
R. J. de Carle*



29040E 5700 29040E

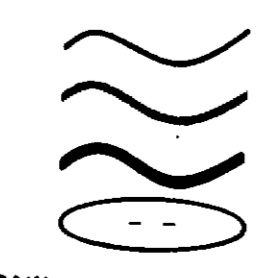


TIMMINS AREA

Map 2 of 2 Scale - 1" = 320 feet 21005 Blk. B
ISOMAGNETIC INTERVAL

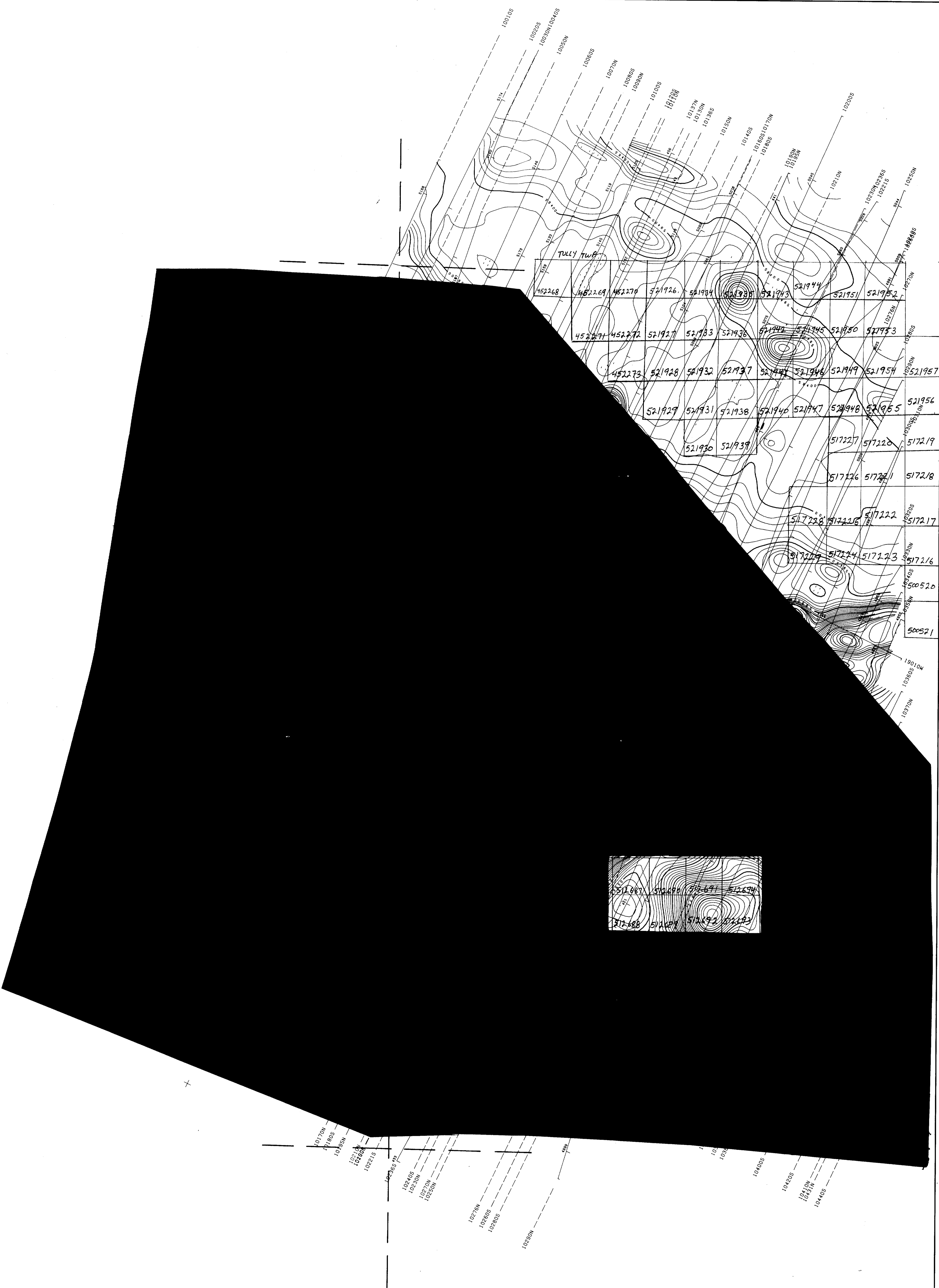
(TOTAL FIELD)

- GAMMA CONTOUR LINE
- 50 GAMMA CONTOUR LINE
- 500 GAMMA CONTOUR LINE
- MAGNETIC DEPRESSION
- FLIGHT ALTITUDE 400' ABOVE TERRAIN



Maddamid
R. J. de Corte





TIMMINS AREA

Map 1 of 3 Scale = 1" = 1320 feet 21005 Bk. A

ISOMAGNETIC INTERVAL

(TOTAL FIELD)

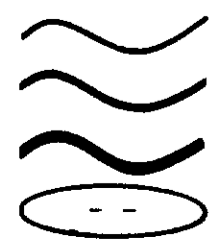
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50 GAMMA CONTOUR LINE

500 GAMMA CONTOUR LINE

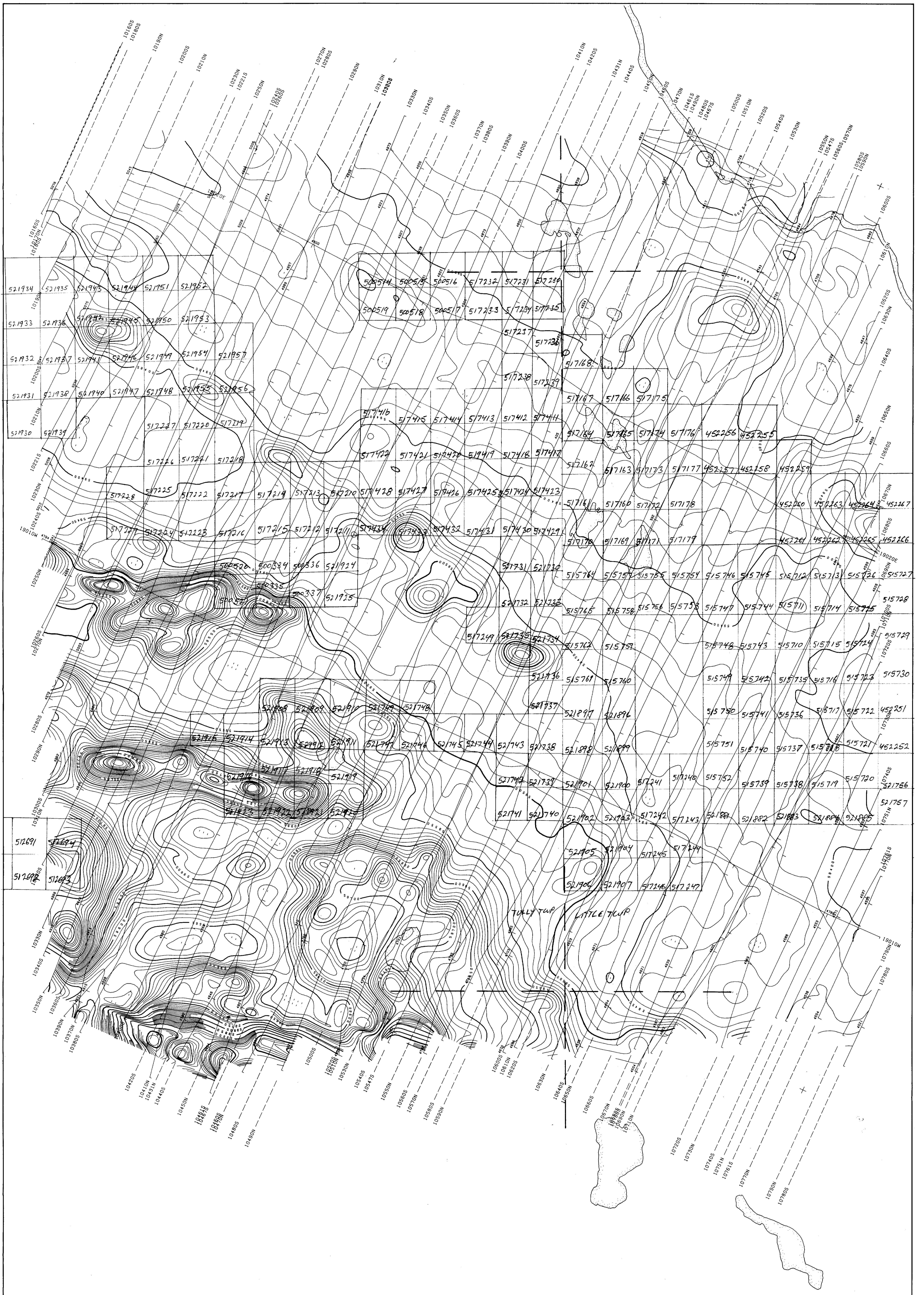
MAGNETIC DEPRESSION

FLIGHT ALTITUDE 400' ABOVE TERRAIN



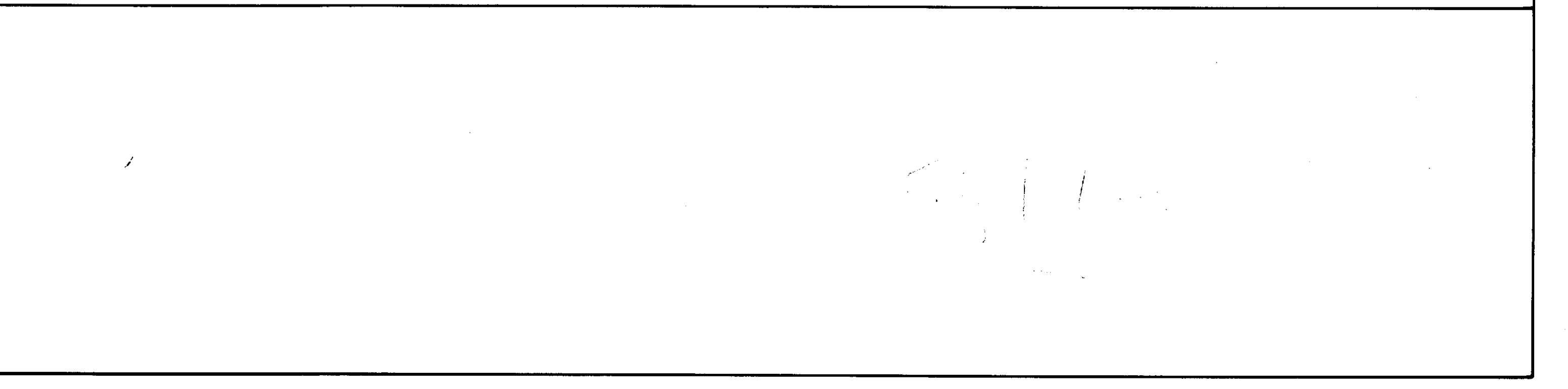
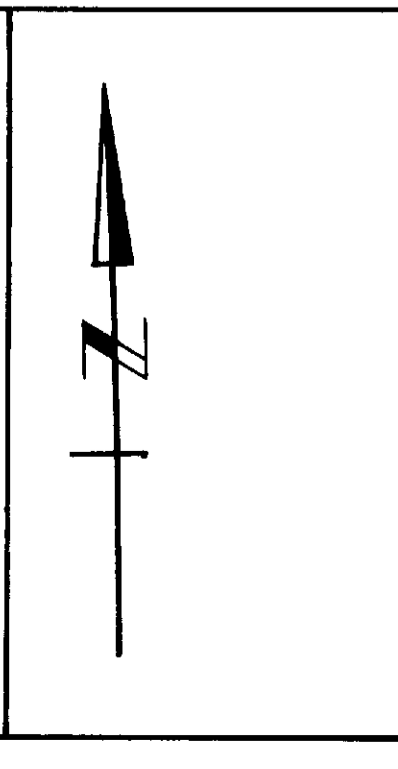
Tully
R. J. de Carle

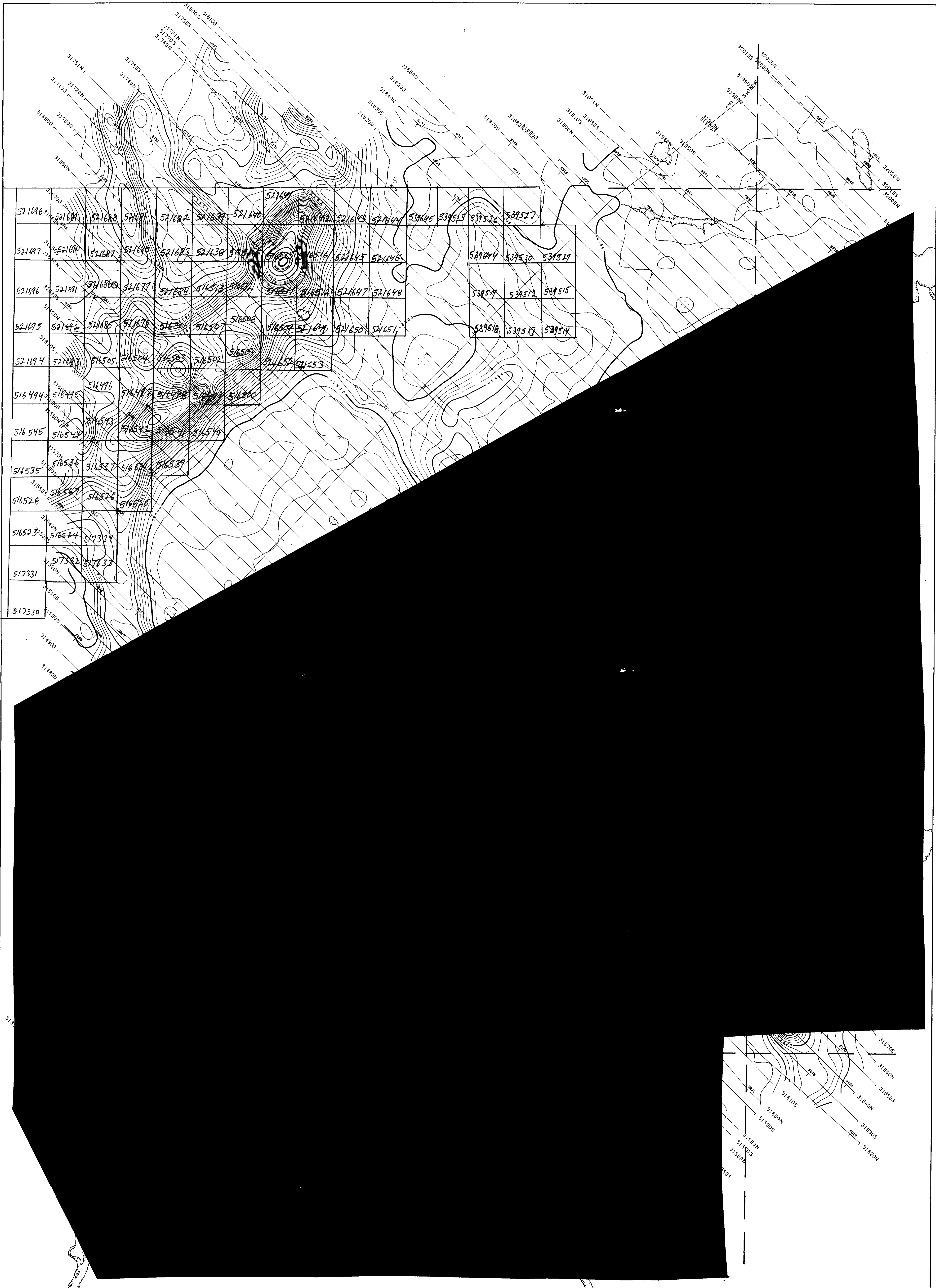




Tully/Little
R. J. de Carle

TIMMINS AREA
 Map 2 of 3 Scale = 1" = 1320 feet 21005 Bk.A
ISOMAGNETIC INTERVAL
 (TOTAL FIELD)
 10 GAMMA CONTOUR LINE
 50 GAMMA CONTOUR LINE
 500 GAMMA CONTOUR LINE
 MAGNETIC DEPRESSION
 FLIGHT ALTITUDE 400' ABOVE TERRAIN





TIMMINS AREA

Map 2 of 3 Scale - 1" = 1320 feet 21005 BIL C

ISOMAGNETIC INTERVAL

(TOTAL FIELD)

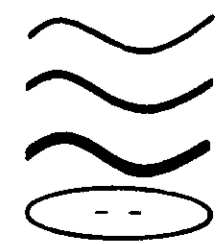
10 GAMMA CONTOUR LINE

50 GAMMA CONTOUR LINE

500 GAMMA CONTOUR LINE

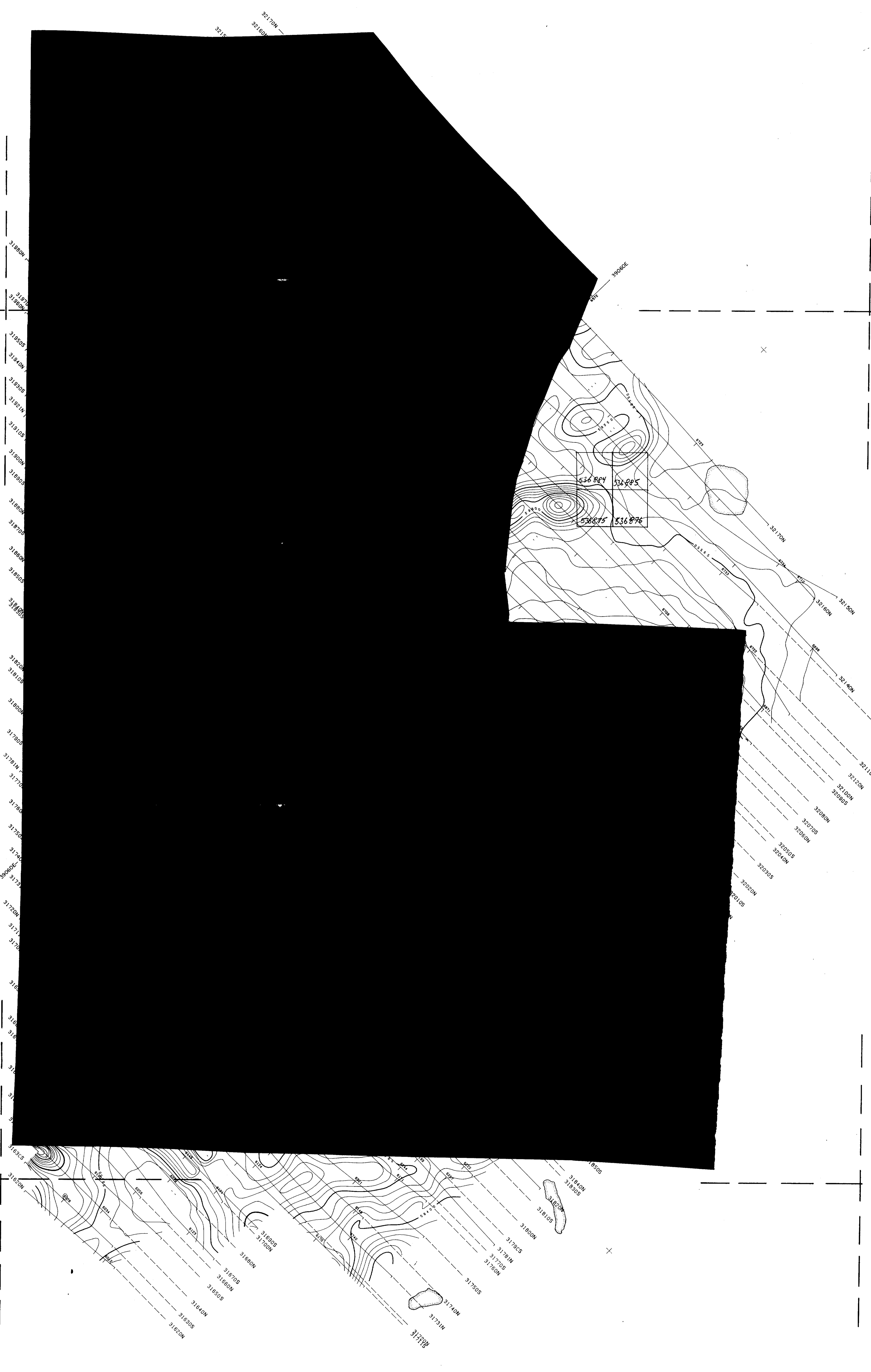
MAGNETIC DEPRESSION

FLIGHT ALTITUDE 400' ABOVE TERRAIN



Jessop
R. J. de Carte



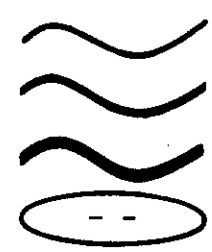


TIMMINS AREA

Map 3 of 3 Scale - 1" = 1000 Feet 20005 Bk C

ISOMAGNETIC INTERVAL
(TOTAL FIELD)

- 10 GAMMA CONTOUR LINE
- 50 GAMMA CONTOUR LINE
- 500 GAMMA CONTOUR LINE
- MAGNETIC DEPRESSION
- FLIGHT ALTITUDE 400' ABOVE TERRAIN



Murphy
R. J. de Carle

[Handwritten signature]

