



41P14NW0352 2.2505 STETHAM

010

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OCT 13 1977

MINING LANDS SECTION

REPORT

ON

AIRBORNE RADIOMETRIC SURVEY

ON THE PROPERTY OF

GOGAMA URANIUM SYNDICATE.

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OCT 13 1977

PROJECTS UNIT

INTRODUCTION

An airborne radiometric survey was carried out over the property of Gogama Uranium Syndicate, in Statham-Noble townships. The object of the survey was to locate areas of above normal radioactivity for more detailed ground exploration.

The following report and accompanying map describe the results of the survey.

PROCEDURE AND INSTRUMENT DATA

The airborne survey was carried out using a Model DISM-400A Gamma Ray Spectrometer connected to a Model 7155A recorder. This equipment was mounted in a Supercub aircraft. The spectrometer has a built-in discriminator which gives net counts due to uranium, thorium, potassium, and total radiation on different channels. In this survey only the total radiation was recorded.

The survey lines were laid out on a base map in an east-west direction with lines at approximate 500 foot intervals. Navigational control was established by manually

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marking fiducials on the tape corresponding to topographical features on the ground such as creeks, lake shore, etc.

A total of 200 line miles of survey was flown of which 10.3 was on the claims of Gogama Uranium Syndicate. The aircraft was flown at a height of approximately 40 feet above the ground over the area surveyed. This was possible as the terrain is relatively flat.

GEOLOGY

The property is situated in the central portion of a large igneous mass of granite of Early Precambrian age. The entire area is mapped as granite but no doubt contains diorites, pegmatites, in the form of sills and dykes.

The Beach Gold property would appear to be entirely underlain by granite. There is one reported radioactive occurrence in the north part of the property near the lake shore, as shown on the accompanying map. This consists of granite, quite altered with some banding. No sampling results are known to the writer.

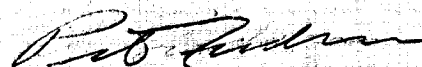
RESULTS OF THE AIRBORNE SPECTROMETER SURVEY

The results of the airborne survey are plotted as profiles on the accompanying map on a scale of one inch to 800 feet. The scale of the profiles is one inch to 50 counts per second (total count).

The granite has a background count and an arbitrary mean has been taken and the anomalous areas are shown as shaded areas on the map. An examination of the map shows most of the area to be fairly uniform in its radioactivity. The areas covered by lakes show below normal values which is no doubt due to the greater distance from the instrument to bedrock and not to lower radioactivity.

The most prominent anomalous area is a broad northwest striking zone which is in the northwest corner of the area surveyed. This appears to cut across the northern part of the Beach Side property and the radioactive showing is situated within this broad zone. The radioactivity appears to die out to the southeast.

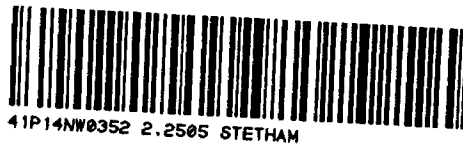
Line 6, which is just north of the radioactive occurrence, shows above normal values under the lake immediately adjacent to the showing. Line 2, the next line north, shows a good width of anomalous values on the north side of the lake. This suggests that there is a minimum length of 1,000 feet that warrants detailed exploration on the ground.



PROSPECTING GEOPHYSICS LTD.

Peter Ferber

VAA D'OR QUE
SEPT 4 1977



Recorded Holder	Donald McKinnon et al
Township or Area	Hagen, Stetham, Middleboro & Carter Townships

Type of survey and number of Assessment days credit per claim	Mining Claims
Geophysical	P. 450991 to 93 inclusive
Electromagnetic _____ days	451206 to 09 "
Magnetometer _____ days	451215
Radiometric <u>12</u> _____ days	451318 to 28 inclusive
Induced polarization _____ days	451980 to 99 "
Section 86 (18) _____ days	452715 to 24 "
Geological _____ days	452727 to 33 "
Geochemical _____ days	452906
Man days <input type="checkbox"/> Airborne <input checked="" type="checkbox"/>	452926 to 35 inclusive
Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	453007 to 26 "
	453032 to 55 "
	453057 to 130 "
	453132 to 91 "
	453213 to 60 "
	453261 to 315 "
	453636 to 45 "
	476611 to 16 "
Notice of Intent to be issued:	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	
<input type="checkbox"/> No credits have been allowed for the following mining claims as they were not sufficiently covered by the survey:	

376 claims

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;

NOTES

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

AREAS WITHDRAWN FROM STAKING

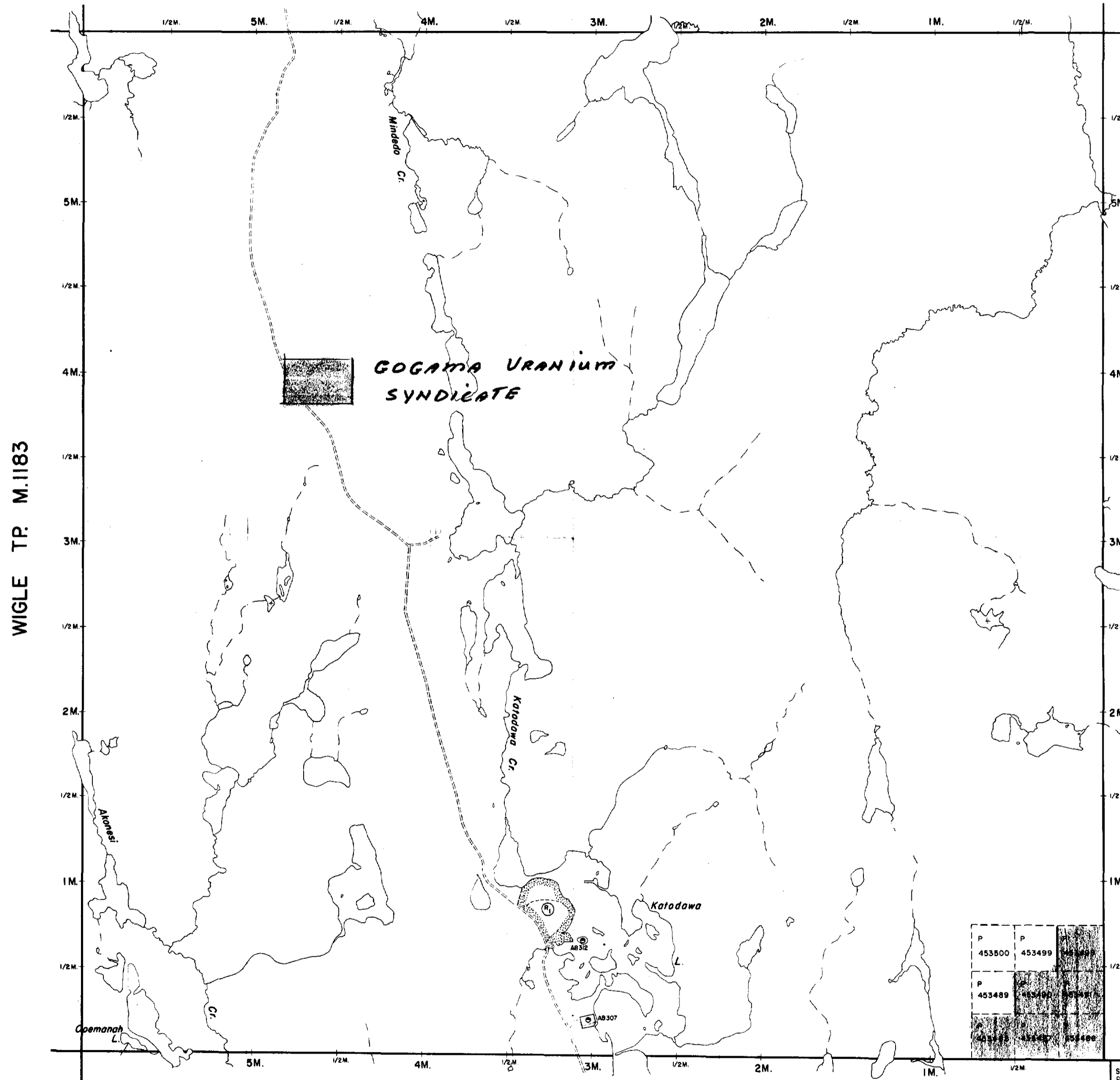
S.R. - SURFACE RIGHTS		M.R. - MINING RIGHTS	
Section	Order No.	Date	Disposition File
①	PUBLIC RESERVE	OCT 23/64	S.R. 163003

DATE OF ISSUE

DEC - 6 1976

SURVEYS AND MAPPING
BRANCH

NORTHRUP TP. M.1028



WIGLE TP. M.1183

HAZEN TP. M.923

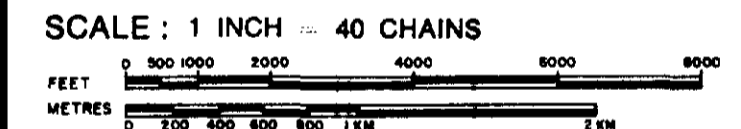
CARTER TP. M.703

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	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	



ACRES	HECTARES
40	16

TOWNSHIP
MIDDLEBORO

DISTRICT
SUDBURY
MINING DIVISION
PORCUPINE

Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date OCT. 1976 Plan No. M.864
Whitney Block Queen's Park, Toronto



NOTES

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

AREAS WITHDRAWN FROM STAKING

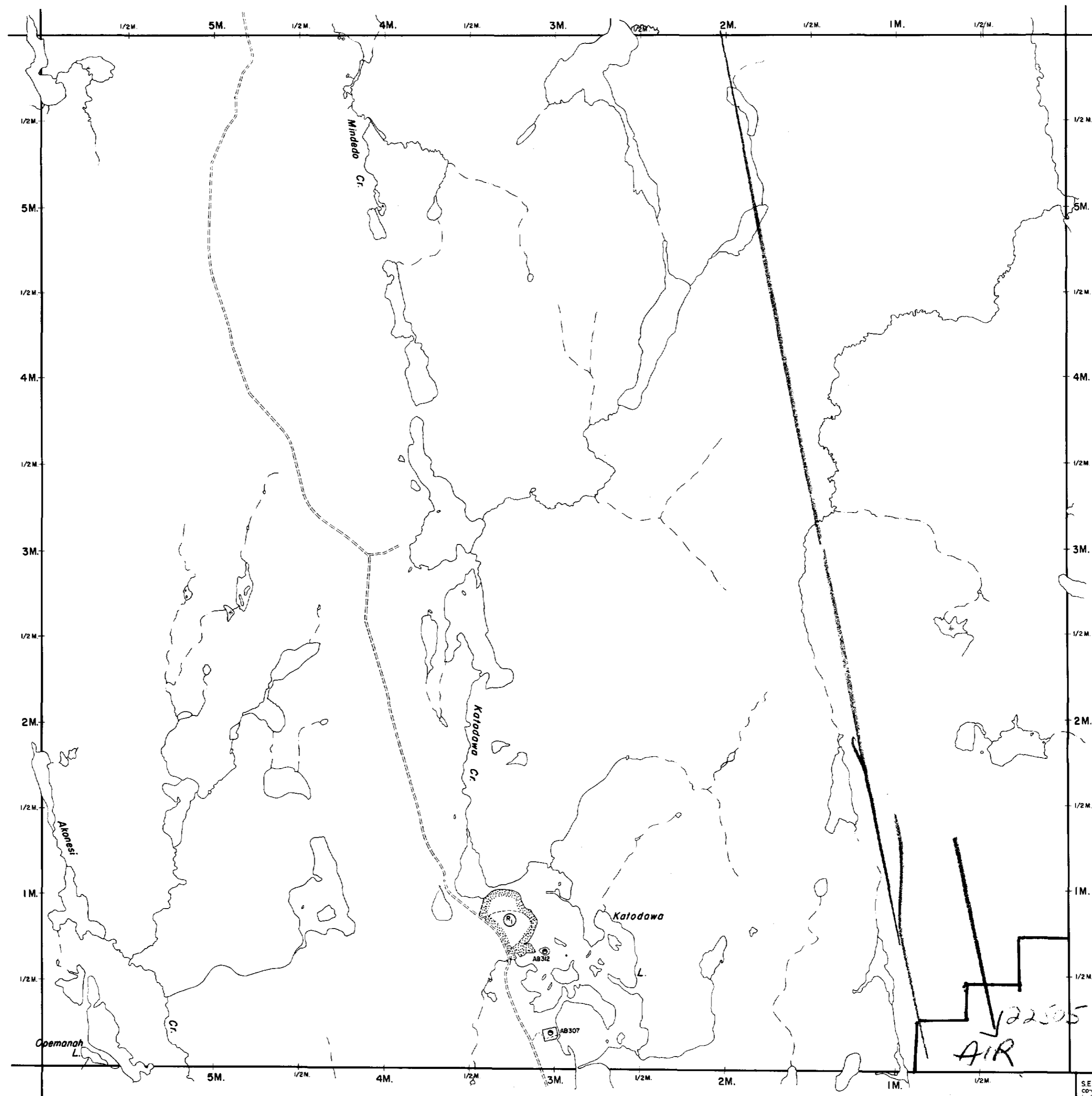
S.R. - SURFACE RIGHTS		M.R. - MINING RIGHTS	
Section	Order No.	Date	Disposition File
④	PUBLIC RESERVE	OCT 23/64	S.R. 163003

DATE OF ISSUE
APR - 4 1973
SURVEYS AND MAPPING
BRANCH

NORTHROP TP. M.1028

WIGLE TP. M.1183

HAZEN TP. M.923



CARTER TP. M.703

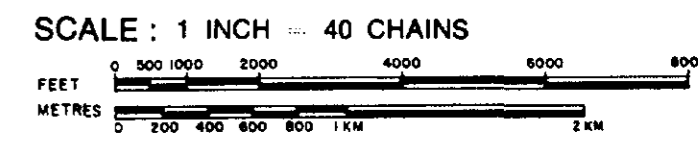
S.E. corner co-ordinates (approx.)
Lat. 47°50' 36"
Dep. 81°43' 36"

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
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- 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	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕



ACRES	HECTARES
40	16

TOWNSHIP 22505
MIDDLEBORO
DISTRICT SUDBURY
MINING DIVISION PORCUPINE

Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date OCT. 1976 Plan No. M. 864
Whitney Block Queen's Park, Toronto



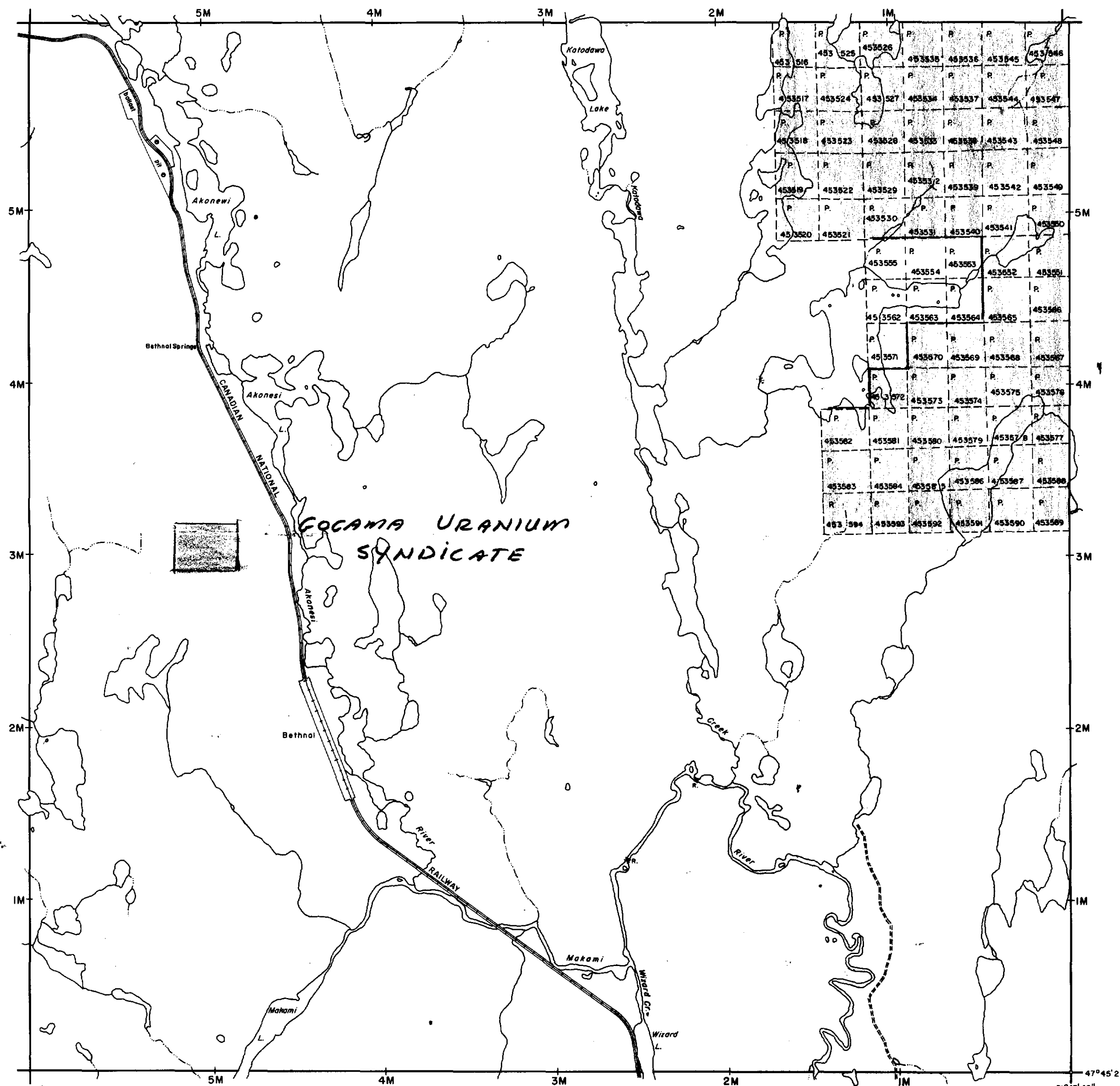
41P14NW6352 2.2585 STEHAM

MIDDLEBORO TWP. - M.864

WHALEN TWP. - M.1179

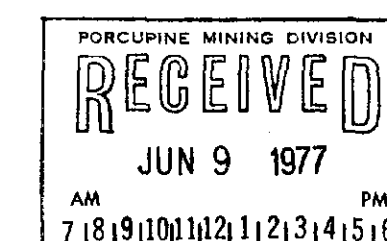
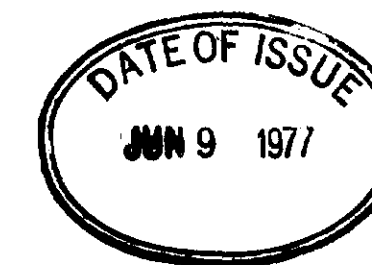
STETHAM TWP. - M.1129

JACK TWP. - M.954



NOTES

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



LEGEND

- PATENTED LAND Ⓟ or ●*
 - PATENTED FOR SURFACE RIGHTS ONLY Ⓞ*
 - LEASE Ⓛ
 - LICENSE OF OCCUPATION L.O.
 - CROWN LAND SALES C.S.
 - LOCATED LAND Loc.
 - CANCELLED C.
 - MINING RIGHTS ONLY M.R.O.
 - SURFACE RIGHTS ONLY S.R.O.
 - HIGHWAY & ROUTE NO.
 - ROADS
 - TRAILS
 - RAILWAYS
 - POWER LINES
 - MARSH OR MUSKEG
 - MINES
- *used only with summer resort locations or when space is limited

TOWNSHIP OF

CARTER

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

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

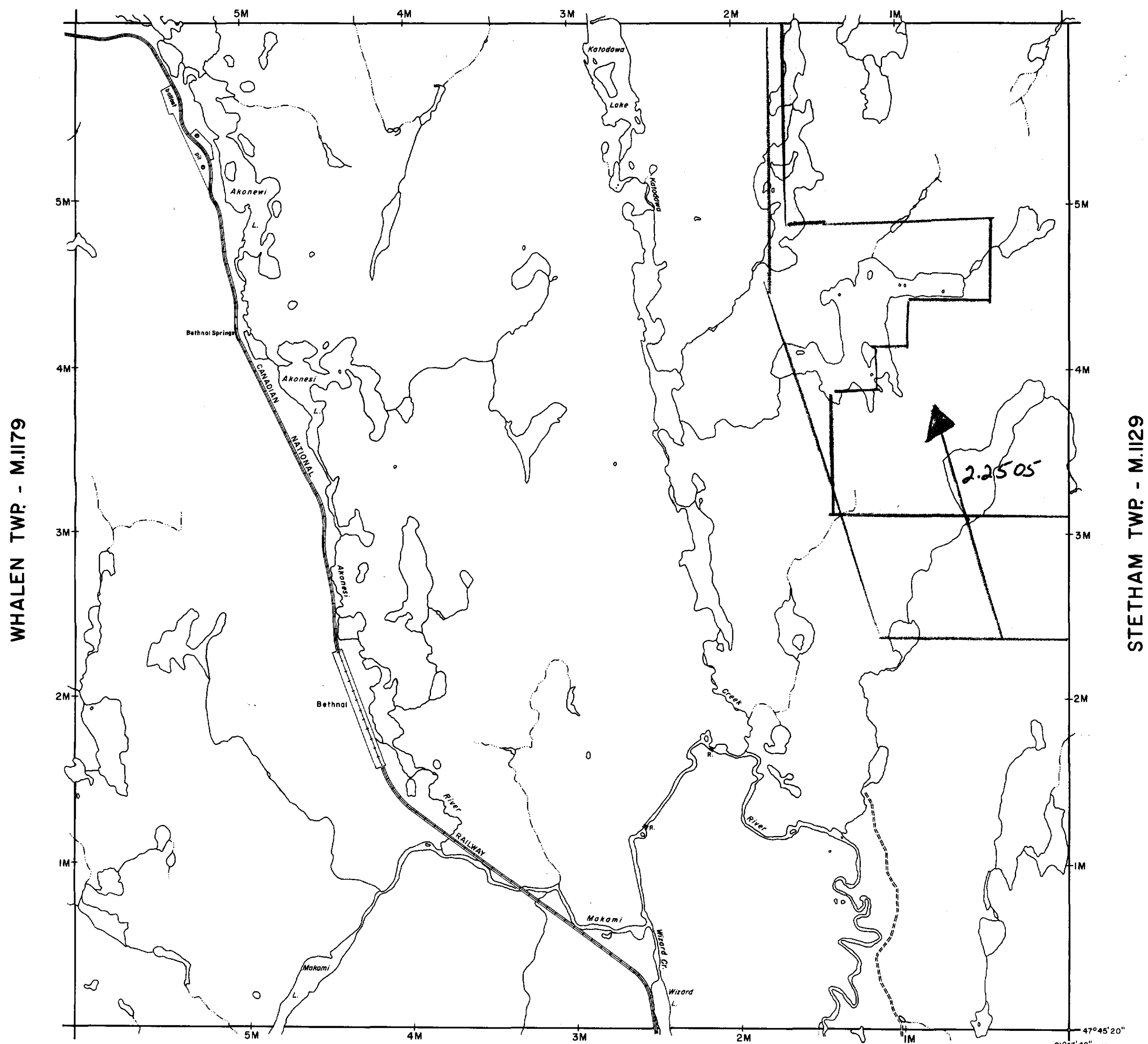
DR. b.k.
DATE Jan '71

PLAN NO. M.703

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



MIDDLEBORO TWP. - M.864



WHALEN TWP. - M.1179

STETHAM TWP. - M.1129

NOTES

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

2.2505

DATE OF ISSUE
APR - 4 1970
SURVEYS AND MAPPING
BRANCH

LEGEND

- PATENTED LAND P or *
 - PATENTED FOR SURFACE RIGHTS ONLY *
 - LEASE L
 - LICENSE OF OCCUPATION L.O.
 - CROWN LAND SALES C.S.
 - LOCATED LAND Loc.
 - CANCELLED C.
 - MINING RIGHTS ONLY M.R.O.
 - SURFACE RIGHTS ONLY S.R.O.
 - HIGHWAY & ROUTE NO.
 - ROADS
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TOWNSHIP OF

CARTER

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

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

DR. b.k. PLAN NO. **M.703**
DATE Jan. '71

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



JACK TWP. - M.954

47°45'20"
81°43'40" approx.

Roblin Twp. (M. 1079)

THE TOWNSHIP OF
HAZEN

DISTRICT OF SUDBURY

RECEIVED
APR 18 1977
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 C.

NOTES
APR 14 1977

400' Surface Right Reservation Around All Lakes And Rivers

PLAN NO. M. 923

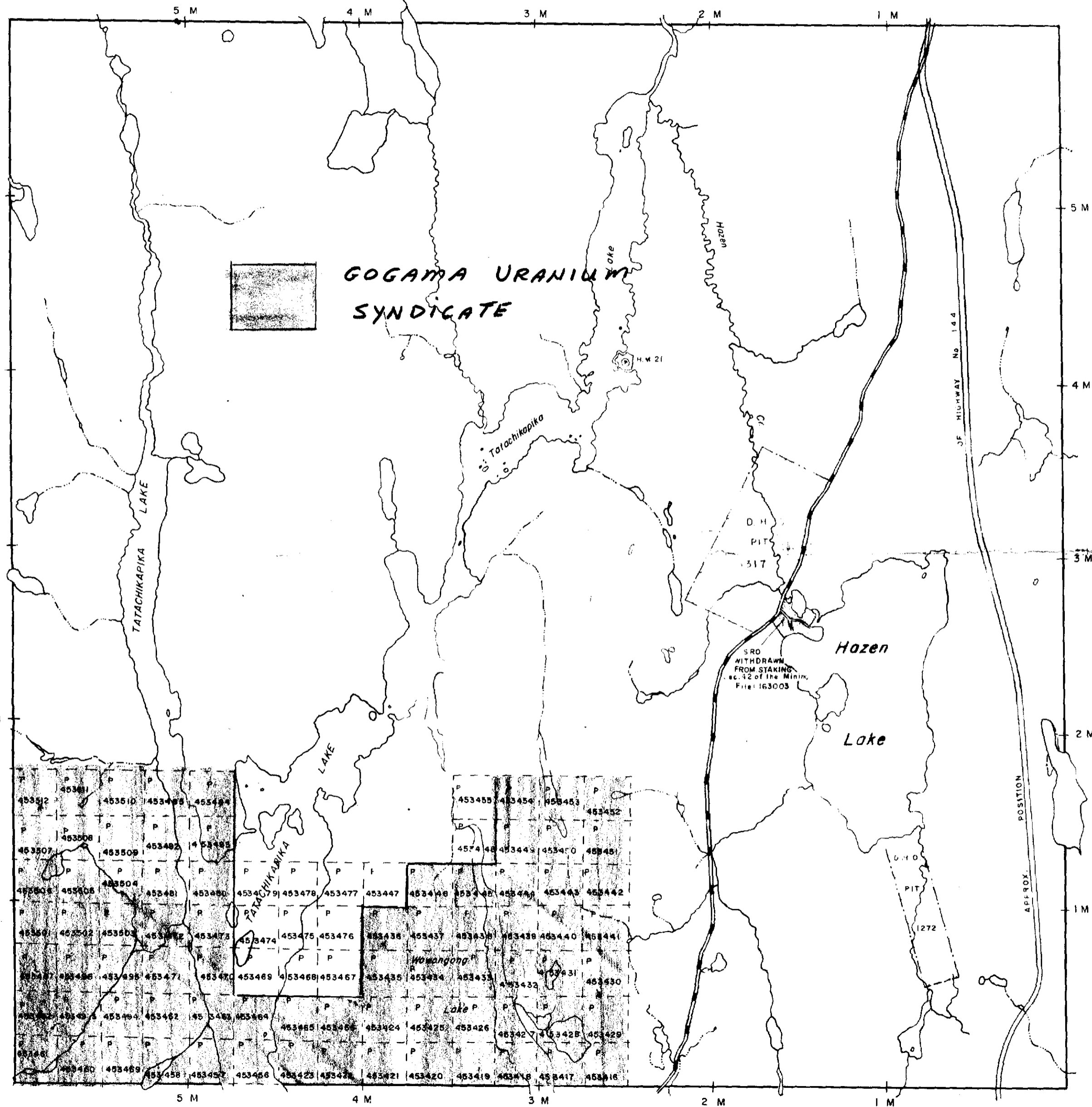
ONTARIO
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

Middleboro Twp. (M. 864)

Emerald Twp. (M. 785)

Stetham Twp. (M. 1129)



Roblin Twp. (M. 1079)

THE TOWNSHIP OF

HAZEN

DISTRICT OF SUDBURY 22505

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	C.

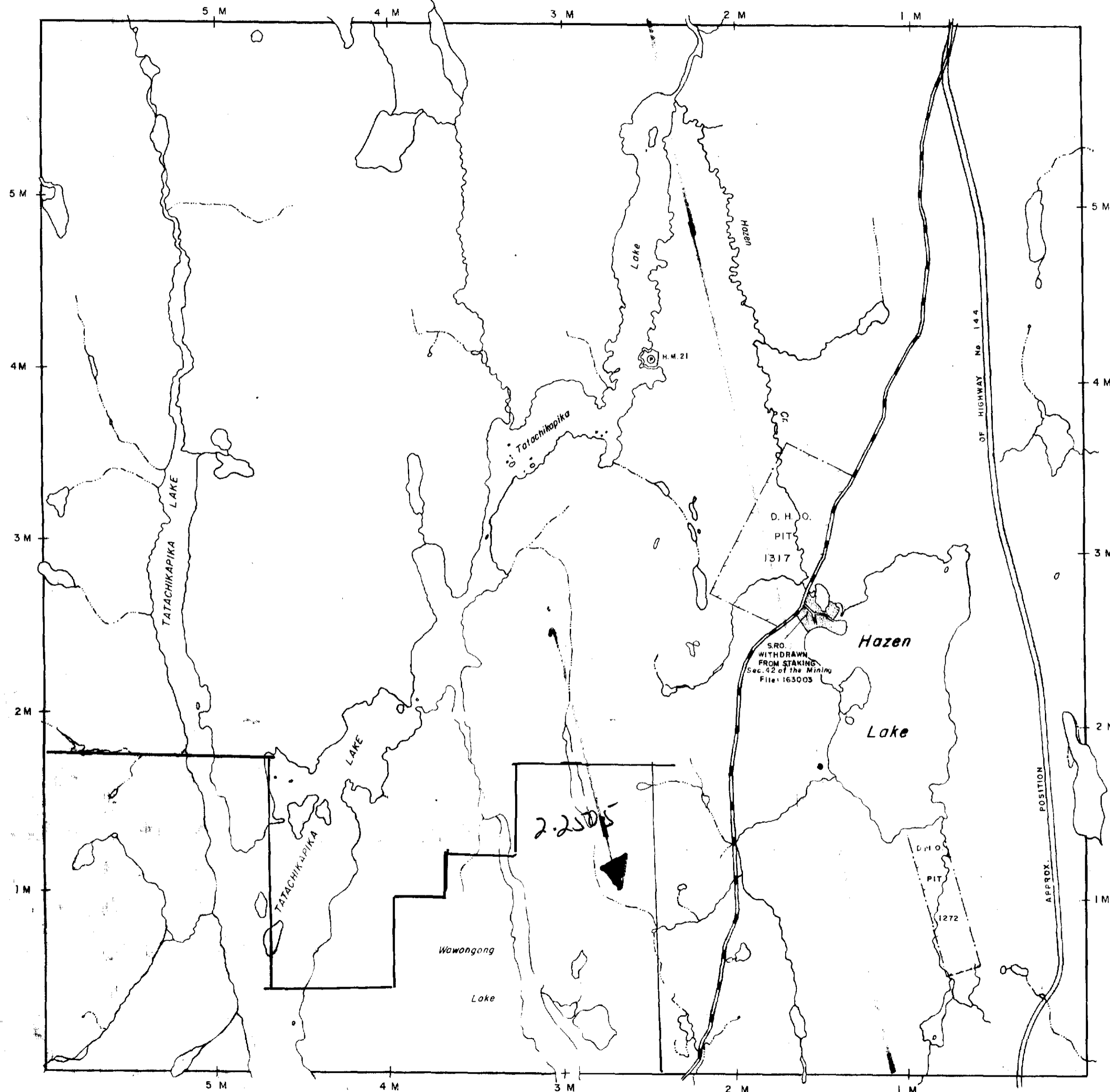
NOTES

400' Surface Rights Reservation Around All Lakes And Rivers.

DATE OF ISSUE
APR - 4 1978
SURVEYS AND MAPPING
BRANCH

PLAN NO. M. 923

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Middleboro Twp. (M. 864)

Emerald Twp. (M. 785)

Stetham Twp. (M. 1129)



41P14N0352 2.2505 STETHAM

Hazen Twp. - M.923

Emerald Twp. - M.785-

THE TOWNSHIP OF

STETHAM










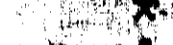




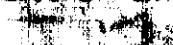
DISTRICT OF SUDBURY

RECEIVED
APR 18 1977
AM 7 9
10 11 12 13 14 15 16

FORCUPINE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND 
- CROWN LAND SALE 
- LEASES 
- LOCATED LAND 
- LICENSE OF OCCUPATION 
- MINING RIGHTS ONLY 
- SURFACE RIGHTS ONLY 
- ROADS 
- IMPROVED ROADS 
- KING'S HIGHWAYS 
- RAILWAYS 
- POWER LINES 
- MARSH OR MUSKEG 
- MINES 
- CANCELLED 

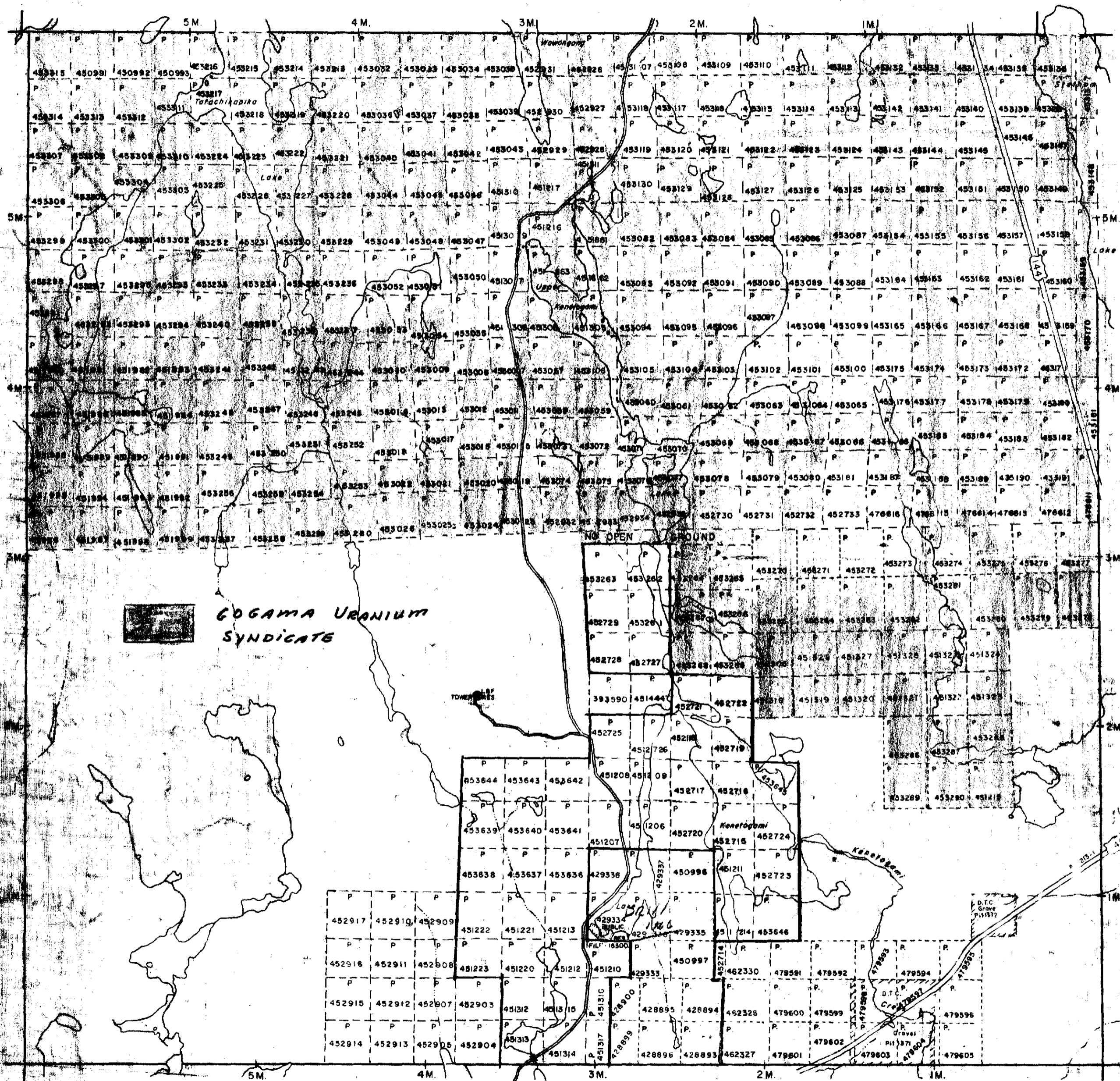
NOTES

- 400' surface rights reservation around all lakes and rivers.
- 400' Surface Rights Reservation Around Kenetogami Lake To The Dept. Of Lands & Forests File-160708

DATE OF ISSUE
APR 14 1977

PLAN NO. **M.129**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Carleton Twp. M.703

Mattagami Twp. - M.858

GOGAMA URANIUM SYNDICATE

Noble Twp. - M.1026



41P14NW6352 2.2505 STETHAM

Hazen Twp. - M.923

Emerald Twp. - M.785-

THE TOWNSHIP OF 2.2505










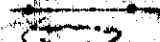

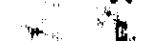



STETHAM

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND 
- CROWN LAND SALE 
- LEASES 
- LOCATED LAND 
- LICENSE OF OCCUPATION 
- MINING RIGHTS ONLY 
- SURFACE RIGHTS ONLY 
- ROADS 
- IMPROVED ROADS 
- KING'S HIGHWAYS 
- RAILWAYS 
- POWER LINES 
- MARSH OR MUSKEG 
- MINES 
- CANCELLED 

NOTES

- 400' surface rights reservation around all lakes and rivers.
- 400' Surface Rights Reservation Around Kenetogami Lake To The Dept. Of Lands & Forests File-160708

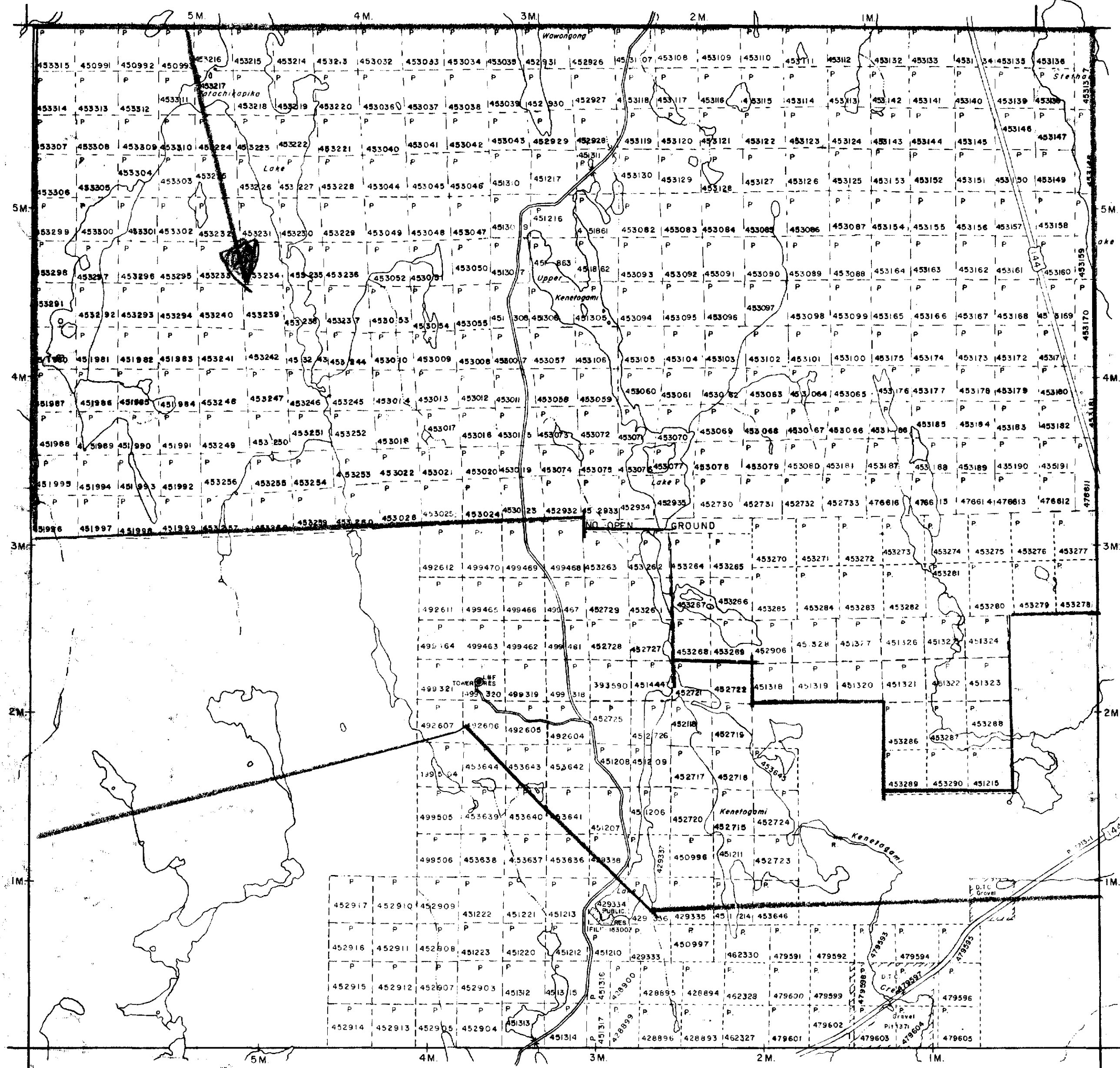
DATE OF ISSUE
OCT 24 1977
 SURVEYS AND MAPPING
 BRANCH

PLAN NO. **M.1129**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Mattagami Twp. - M.858

Carter Twp. M.703



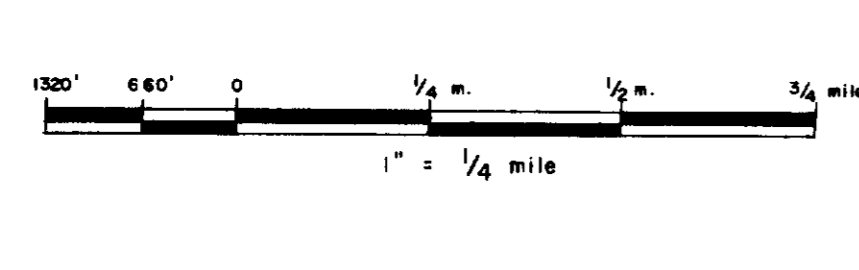
Noble Twp. - M.1026



**GAMMA RAY SPECTROMETER
 AIRBORNE SURVEY (Total Count)**

for
Gogama Uranium Syndicate

**PORCUPINE MINING DIVISION,
 DISTRICT OF SUDBURY, ONT...**



N O R T H R U P

R O B L I N

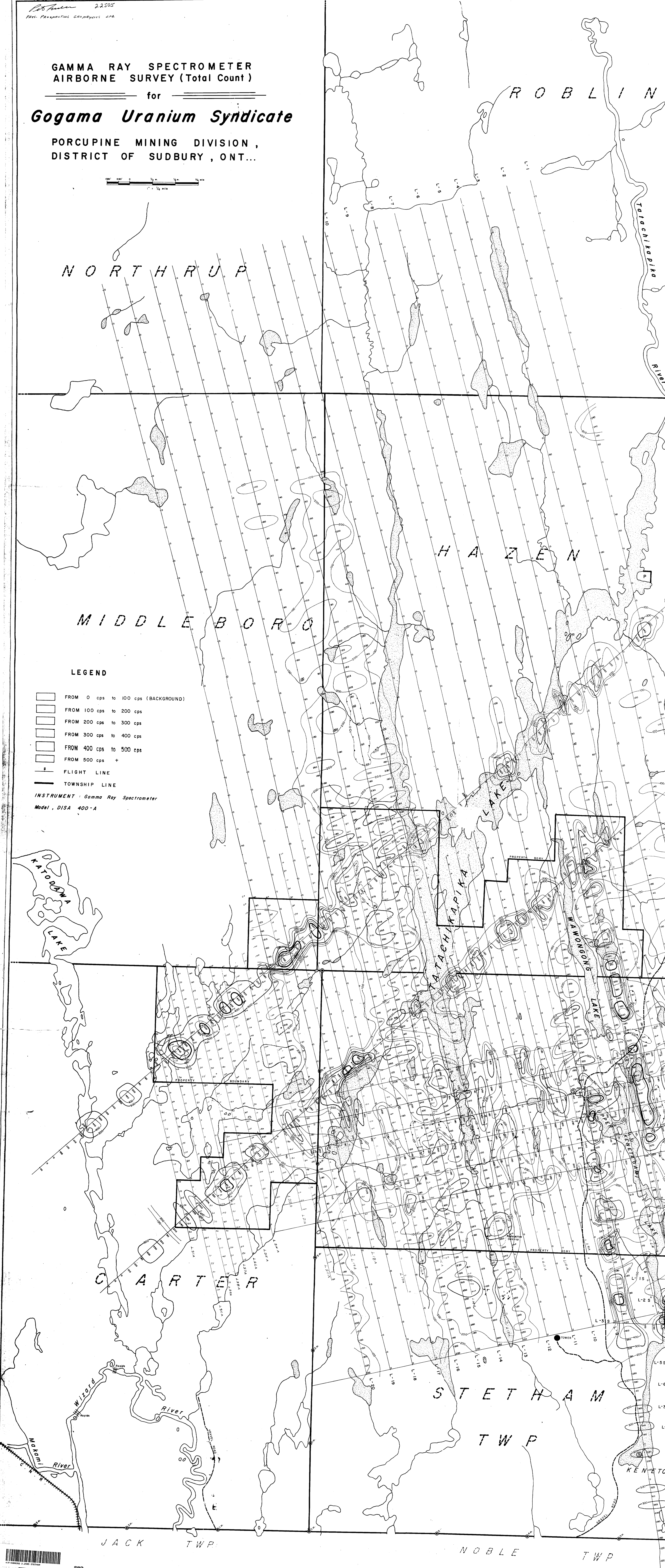
H A Z E N

M I D D L E B O R O

LEGEND

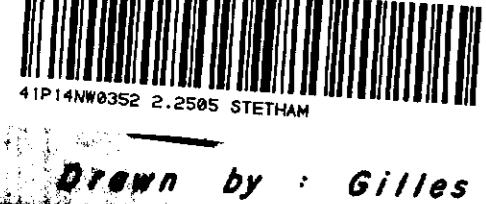
- FROM 0 cps to 100 cps (BACKGROUND)
- FROM 100 cps to 200 cps
- FROM 200 cps to 300 cps
- FROM 300 cps to 400 cps
- FROM 400 cps to 500 cps
- FROM 500 cps +
- FLIGHT LINE
- TOWNSHIP LINE

INSTRUMENT : Gamma Ray Spectrometer
 Model , DISA 400-A



J A C K T W P

N O B L E T W P



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R O B L I N

H A Z E N

T A T A C H I K A P I K A

W A W O N G O N G

S T E T H A M

T W P

N O B L E T W P

Tatichikapika River



Hazen Creek

D. H. O. PIT 1317

HAZEN LAKE

ATACHIKAPIKA LAKE

WAWONGONG LAKE

KENETOGAMI LAKE

MATTAGAMI LAKE

EMERALD TWP (M-785)

GOUIN TWP

TIMMINS (M-891)

GOLENA SUPPLY