



410155E0114 2.6308 DORE

010

REPORT ON A
GEOLOGICAL SURVEY
FOR
SWAYZE RESOURCES LTD.

Swayze and Dore Townships
Porcupine Mining Division

RECEIVED
JAN 25 1984
M. [unclear]

December, 1983

Kenneth Guy
Geologist

Recommendations and Conclusions .

Introduction

Location and Access

Property

Previous Work

General Geology

Linecutting

Vegetation and Topography

Geological Survey

Fig. 1 - Location Map

Geological Plan in back pocket

RECOMMENDATIONS AND CONCLUSIONS

The geological survey was successful in delineating the stratigraphic succession within the project area. It also located many areas of alteration and quartz vein stockwork similar to that of the former Kenty Mine. These quartz vein systems contained highly anomalous gold values and in one case economic gold values were obtained from grab samples. At L480E, 225N two samples were taken from a mineralized quartz vein yielding .108 oz. Au/ton and .140 oz. Au/ton. This area is highly encouraging as the quartz carbonate vein system contained considerable pyrite and appeared to be quite persistent. With only two samples taken and both yielding economic results, considerably more work is necessary at this location.

A three phase exploration program is recommended for the project area. The program is designed to locate anomalous features which may have gold association and to delineate known gold bearing structures.

Phase I - consists of a geophysical program of magnetic survey and VLF-EM survey. The magnetic survey will greatly aid in stratigraphic correlation as the Mafic rock is very magnetic and will greatly contrast with the Intermediate and Felsic volcanic rocks. This should aid in locating the contact zones which are favourable areas for prospecting for additional gold bearing quartz vein alter-

ation zones. The VLF-EM survey will detect for conductivity. The quartz veins both on this property and at the former Kenty Mine have considerable pyrite associated with the veins and in the alteration envelope. The higher gold values appear to be associated with the pyritic sections. The VLF-EM survey should be able to detect and trace the quartz vein systems.

Phase II - consists of a program of intensive prospecting and sampling. This portion of the program would be non-mechanized and therefore deal with the near surface expressions. It would concentrate on the areas of known gold mineralizations as located by the geological survey. It would also attempt follow-up on geophysical anomalies within favourable geological environments.

Phase III - consists of mechanized trenching and diamond drilling. This program would mainly be contingent upon the results of the phase I and II programs. However it is anticipated that favourable results will continue where they are presently known and that additional trenching and diamond drilling will be necessary to further define the gold bearing quartz vein system.

The proposed program would locate and define the gold bearing potential of the property. It would follow-up on the gold bearing quartz veins located to date. An estimated budget for the above proposed program is as follows:

Phase I - geophysics

32 kilometres of Magnetic survey and VLF-EM survey
at \$80.00 per kilometre per survey - includes maps,
reports, interpretation
\$80.00 x 32 kms. x 2 \$ 5120.00

Phase II - prospecting

geologist plus assistant for a period of 10 days 3500.00
assays 1000.00
Say \$ 10,000.00

INTRODUCTION

The following report details the results of a geological survey carried out on behalf of Swayze Resources Limited by Kenneth Guy Exploration Services on a project area in Swayze and Dore townships, northeastern Ontario.

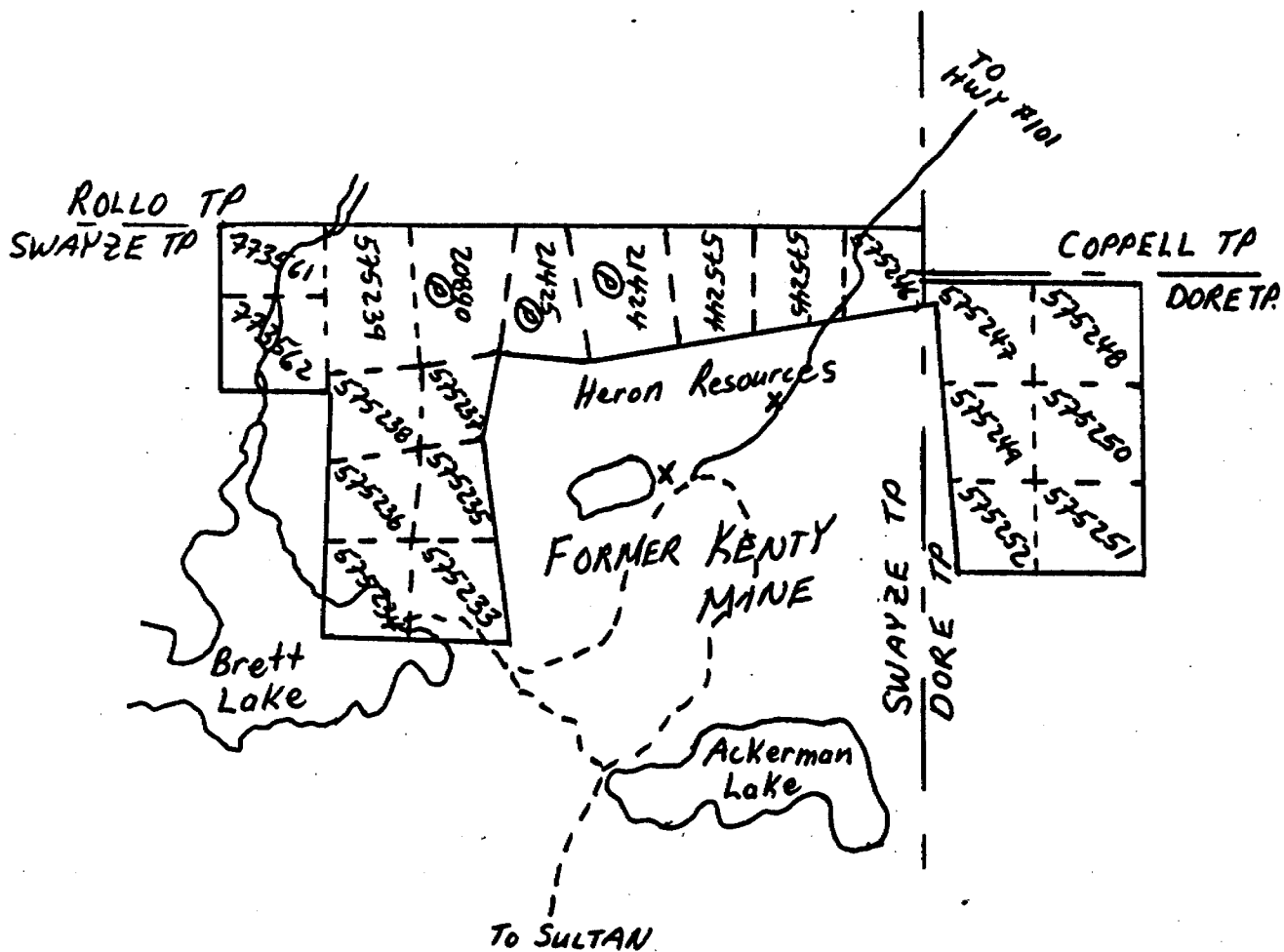
The purpose of the survey was to determine the stratigraphy of the project area, and to prospect for gold bearing quartz-carbonate vein systems. The property surrounds the former Kenty Gold Mine so that occurrence was utilized as an exploration model for the Swayze Resources property.

LOCATION AND ACCESS

The property lies in the northeast corner of Swayze township and the northwest corner of Dore township in the District of Sudbury, Porcupine Mining Division, northeastern Ontario (figure 1).

The property lies about 120 miles northwest of Sudbury, Ontario and 100 miles west of Timmins, Ontario.

Access is via Provincial highway 101 to the Ivanhoe Lake road, immediately west of the town of Foleyet, then south for about 40 miles to the old Kenty Mine site (present owners, Heron



LOCATION MAP

SWAYZE RESOURCES LTD.

Swayze and Dore Tp.

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

N.T.S. 0/15

scale: 1 inch = $\frac{1}{4}$ mile

Resources). The property surrounds the Heron Resources property on the north, east, and west.

PROPERTY

The geological survey covered the following claims:

Swayze township

S20890	- patent claim
21424,25	- patent claim
S575233 - 239 incl.	
S575244 - 246 incl.	
P773561 - 562 incl.	15 claims

Dore township

P575247 - 252 incl.	<u>6 claims</u>
Total	<u>21 claims</u>

A total of 21 claims were covered during the geological survey, eighteen unpatent mining claims and 3 patent mining claims.

PREVIOUS WORK

The area was intensively prospected during the 1930's when gold was discovered at the Kenty mine site in 1931. Two shafts were sunk on that property in 1933. Details on work performed during that period is sketchy. Work performed on the Swayze Resources property consisted of prospecting, trenching and limited diamond drilling. Gold bearing veins were uncovered on the property but interest waned when the Kenty Mine was

abandoned in 1934.

Base metal exploration was conducted through the area but none was applicable to the Swayze Resources property.

J.F. Donovan mapped Swayze and Dore townships for the Ontario Department of Mines in 1965 - Geological Report No. 33.

In 1982 the Ontario Geological Survey contracted Questor Surveys Ltd. to conduct an Airborne Electromagnetic and Total Intensity Magnetic Survey of the Swayze greenstone belt.

GENERAL GEOLOGY

The Swayze Resources Ltd. property lies in the east-west trending Swayze greenstone belt. The rocks are all Precambrian in age, consisting of felsic to mafic volcanic rocks, sedimentary rocks and intrusive igneous rocks. Felsic volcanic rocks occupy the northern part of Dore township and the central part of Swayze township. The most predominant lithologic unit is intermediate to mafic volcanic rocks which trend east-west across the area.

LINECUTTING

Linecutting was completed during August and September 1983. A total of 32.2 kilometres of line were cut with section lines at

120 metre intervals off the baseline. The lines were chained with stations established at 30 metre intervals. The lines in the north central section of the grid were cut from the baseline on the Heron Resources ground to the south.

VEGETATION AND TOPOGRAPHY

The predominate vegetation cover is a mixed forest of spruce, birch and poplar. The exception is in Dore township where most of the grid area was cut-over, possibly 15 to 25 years ago. The vegetation here is a secondary growth of scrub maple and poplar.

The topography is quite flat with most relief across the north section of the property where rocky hills and drift covered ridges predominate.

GEOLOGICAL SURVEY

The geological survey was conducted during October 1983. All outcrop within the grid area was located and mapped and pertinent topographic features noted and located relative to the established grid. A total of 32.2 kilometres of grid line were traversed.

Outcrop was quite sparse in the grid area, about 10-15%

TABLE OF FORMATIONS

Recent: Stream and Swamp deposits

Pleistocene: Glacial Till

Unconformity

Precambrian

(4) Intermediate to Mafic Metavolcanic rocks

a) Massive basalt

c) Intermediate tuff

d) Mafic tuff

e) Andesite

(2) Metasedimentary rocks

a) chert

(1) Felsic Metavolcanic rocks

a) Massive

b) Tuff

c) Breccia

e) Quartz-Feldspar Porphyry

exposure. Three main lithologies were noted which could be stratigraphically sub-divided - Felsic volcanic (1), Mafic volcanic (4a,c,d) and Andesite (4e).

The geological succession is summarized in the Table of Formations.

Intermediate to Mafic Metavolcanic rocks - This is the main lithologic unit of the area and was sub-divided primarily into basalt and andesite due to the east of distinguishing the two in the field. It was also observed in the field that the andesite usually occurred as a transition phase between the rhyolites and basalts and therefore appeared to be a useful stratigraphic indicator.

The basalts are found primarily in east-west striking units. They occupy the northwest and central sections of the property. Most common is the massive phase which is chloritic, medium grained and very commonly magnetic. Structures of any type are rare with an east-west schistosity being occasionally observed. The rock was magnetic throughout the project area, usually due to magnetite with pyrrhotite being observed occasionally.

The andesite was siliceous, light green in colour and fine to medium grained. They were usually found in close proximity

to the felsic volcanics. At the east portion of the property the gold bearing quartz veins are hosted by andesite. The andesite was commonly carbonatized with slight pyrite.

Felsic Metavolcanic Rocks

The main band of felsic volcanic rocks is through the southwest portion of the property. They are also found through the central and northeast sections of the property. These rocks exhibit a wide range of textures from fine grained to porphyritic and massive to pyroclastic. The rock is commonly a white to buff coloured, fine grained, rhyolite.

Most commonly observed on the property was the pyroclastic texture, either as a tuff or a breccia. The breccia contained fragments from $\frac{1}{4}$ to 3 inches in diameter, usually felsic fragments within a felsic matrix. The felsic volcanic is commonly carbonatized, often ankeritic, with minor pyrite. In the west-central section of the property it commonly hosts quartz-carbonate veins which assayed anomalous to highly anomalous gold.

CERTIFICATE

I, the undersigned, Kenneth Guy, residing at 180 Nadine St., South Porcupine, Ontario, graduated with a Bachelor of Applied Science, degree in Earth Science - Geology from the University of Waterloo, Waterloo, Ontario in 1978.

I have been employed in the field of Geology since graduation in 1978.

I am a fellow of the Geological Association of Canada.

I do not hold, nor do I expect to receive an interest of any kind in these claims held by *Swayze Resources Ltd.* nor in any other mining claims they may have.



Timmins, Ontario

Kenneth Guy
Kenneth Guy, Geologist



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#403/B3

The Mining Act - Do not use shaded areas below.

Type of Survey(s) **GEOLOGICAL** Township or Area **SWAYZE, DORE TWPS**
 Claim Holder(s) **Albert Hopkins** Prospector's Licence No. **E-12440**
 Address **810 Duplex Avenue, Toronto, Ontario M4R 1W7**
 Survey Company **Kenneth Guy Exploration** Date of Survey (from & to) **06/10/83 to 10/20/83** Total Miles of line Cut **32.2 Km**
 Name and Address of Author (of Geo-Technical report) **Kenneth Guy, Box 6045 P.M.S., South Porcupine, Ontario, P0N 1K0**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

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

RECORDED
1 DEC 11 1983
 Receipt No. _____

Prefix	Mining Claim Number	Expend. Days Cr.
P	575233	40
	575234	40
	575235	40
	575236	40
	575237	40
	575238	40
	575239	40
	575244	40
	575245	40
	575246	40
	575247	40
	575248	40
	575249	40
	575250	40
	575251	40
	575252	40
	773561	40
	773562	40

Prefix	Mining Claim Number	Expend. Days Cr.

FORCUPINE MINING DIVISION
RECEIVED
DEC 5 1983
 A.M. P.M.
 7|8|9|10|11|12|1|2|3|4|5|6

RECEIVED
FEB 3 1984
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed _____

Performed on Claim(s) _____

Calculation of Expenditure Days Credits

Total Expenditures \$ _____ ÷ **15** = Total Days Credits _____

Instructions
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **18**

Date **Dec 5/83** Recorded Holder or Agent (Signature) *Kenneth Guy*

For Office Use Only

Total Days Cr. Recorded 120	Date Recorded Dec 5/83	Mining Recorder <i>[Signature]</i>
	Date Approved or Recorded 84.5.24	Regional Director <i>[Signature]</i>

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
Kenneth Guy, Box 6045 P.M.S., South Porcupine, Ontario P0N 1K0

Date Certified **Dec 5/83** Certified by (Signature) *Kenneth Guy*



Mining Lands Comments

- geology map not coloured

To: Geophysics

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures *Mr. C. Kustra*

Comments

Approved

Wish to see again with corrections

Date

Mar 2 / 84

Signature

Kustra

To: Geochemistry

Comments

LD

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

MEA Feb 15/84

Assessed

Approved Reports of Work
sent out

Notice of Intent filed

Approval after Notice of Intent
sent out

Duplicate sent to Resident
Geologist

Duplicate sent to A.F.R.O.



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

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) GEOLOGICAL
Township or Area Swayze and Dore TP.
Claim Holder(s) Swayze Resources LTD.
Albert Hopkins
Survey Company KENNETH Guy Exploration Services
Author of Report KENNETH Guy
Address of Author Box 6045 P.M.S., South Porcupine, Ont.
Covering Dates of Survey August to December 1983
(linecutting to office)
Total Miles of Line Cut 32.2

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	2080
P	575233
P	575234
P	575235
P	575236
P	575237
P	575238
P	575239
P	575244
P	575245
P	575246
P	773561
P	773562

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical
ENTER 20 days for each additional survey using same grid.	-Electromagnetic _____
	-Magnetometer _____
	-Radiometric _____
	-Other _____
	Geological <u>40</u>
	Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Jan. 9, 1984 SIGNATURE: Kenneth Guy
Author of Report or Agent

Res. Geol. _____ Qualifications 2 1/2 yrs

File No.	Type	Date	Claim Holder

RECEIVED
JAN 25 1984
MINING CLAIMS SECTION

TOTAL CLAIMS 12

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____
Station interval 30 metres Line spacing 120 metres
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION

RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

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) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

Our File: 2.6308

1984 02 10

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geological survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 575233 et al in the Townships of Swayze and Dore.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

J. R. Morton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416 (965-1380)

A. Barr/dg

cc: Albert Hopkins
810 Duplex Avenue
Toronto, Ontario
M4R 1W7

2.6308

575233

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773561

✓

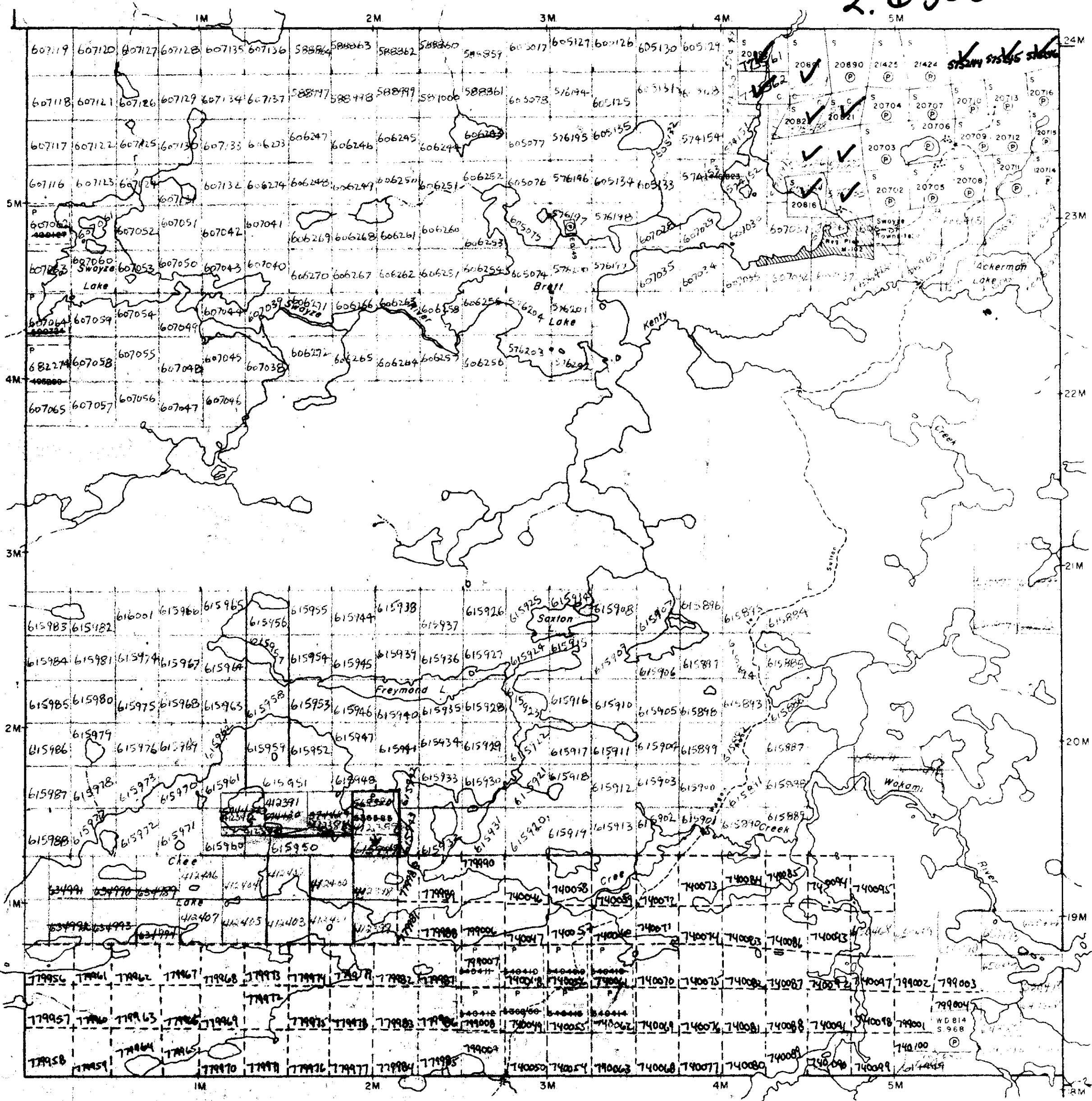
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✓

S

Rollo Twp.-M.1082

2.6308



THE TOWNSHIP OF

SWAYZE

DISTRICT OF SUDBURY

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	—

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

PLAN NO - M.1150

DATE OF ISSUE
 MINISTRY OF NATURAL RESOURCES
 MAY 22 1981
 SURVEYS AND MAPPING BRANCH
 Ministry of Natural Resources
 TORONTO

Cunningham Twp.-M.744



410155E0114 2.6308 DORE

M 1120

SWAYZE TWP

M 1120

M 1120

SWAYZE TWP

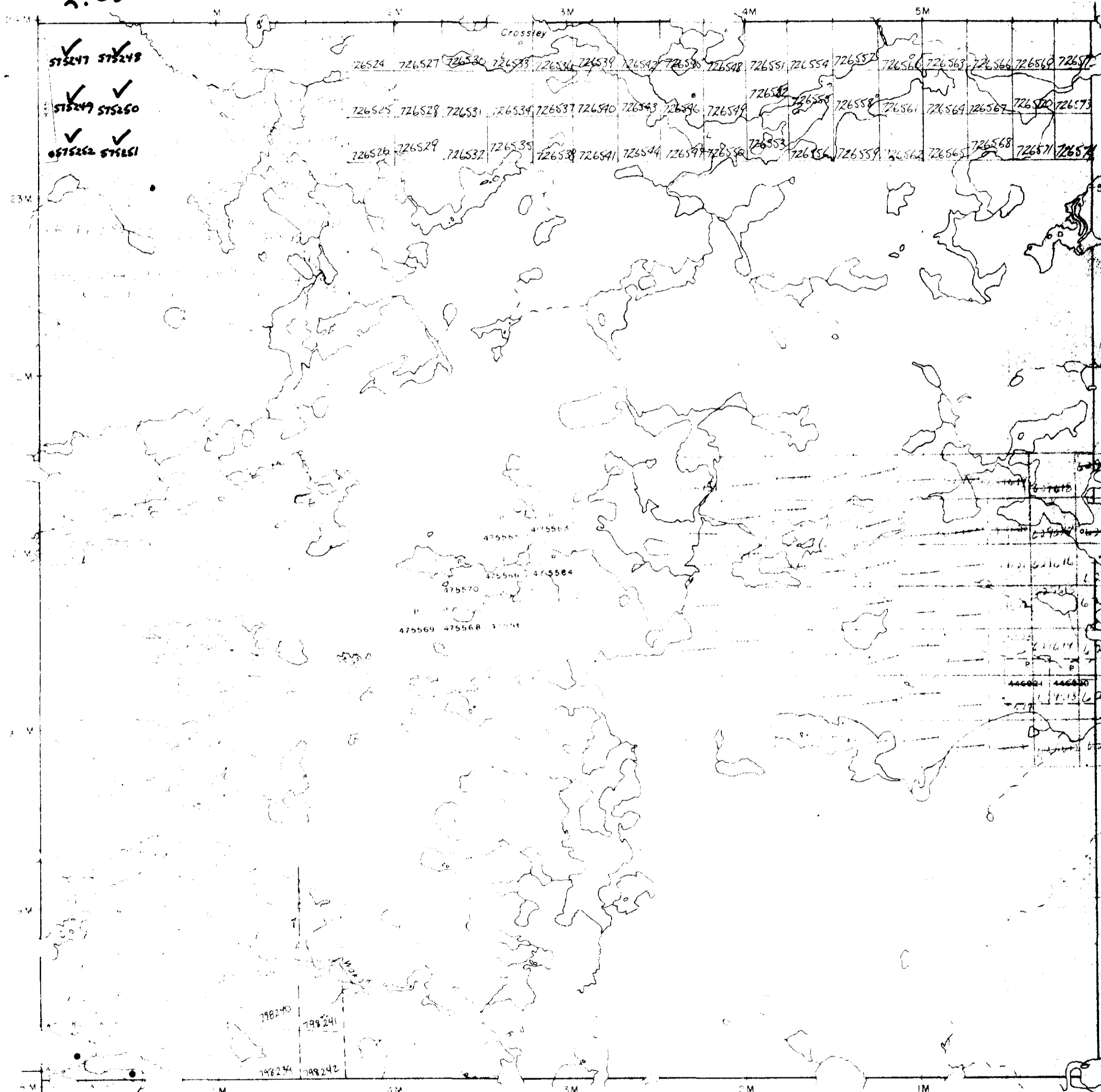
NOTES

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

2.6308

SWAYZE TP. M. 1150

COPPELL TP.



GARNET TP. M. 829

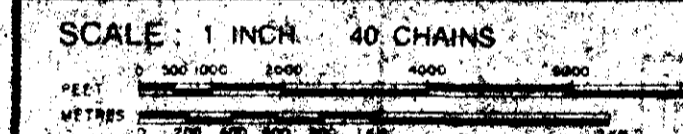
LEGEND

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	
EVIDENCE OF OCCUPATION	
CROWN LAND SALE	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	
L.L.P.	

Received Jan 17/84



ACRES	HECTARES
40	16

TOWNSHIP
DORE
 DISTRICT
 SUDBURY
 MINING DIVISION
 PORCUPINE
 May 10/84

Ministry of Natural Resources
 Ontario - Surveys and Mapping Branch
 Date: April 27th, 1973
 Whitley Block
 Queen's Park, Toronto

DATE OF ISSUE
 May 28 1984
M. 763
 Ministry of Natural Resources
 TORONTO



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