

2.14077

GEOLOGICAL SURVEY

for

TAMAKA RESOURCES INCORPORATED

on the

CARSCALLEN TOWNSHIP PROPERTY

in

RECEIVED

100 01 1991

CARSCALLEN TOWNSHIP

MINING LANDS SECTION

PORCUPINE MINING DIVISION

DISTRICT OF COCHRANE

ONTARIO

by

Kian A. Jensen Consulting Geologist/Geophysicist

December, 1990





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INTRODUCTION

During February to March, 1989, total of 23.36 miles of line cutting was completed on the 23 contiguous unpatented mining claims known as the Carscallen Township Property in the west central part of Carscallen Township.

The author conducted geological mapping of the Carscallen Township Property from September 17 to November 9, 1990 and completed the drafting and report by December 12, 1990.

The project area is located approximately 4.0 miles (6.5 km) west of the junction of Highways 101 and 144, the 4.9 miles (7.9 km) northwards to south property boundary. The claims cover an area from the Whiteside - Carscallen Township boundary eastwards for 1.5 miles in the west central portion of Carscallen Township, Porcupine Mining Division, District of Cochrane, Ontario.

The purpose of the survey was to identify the lithological units, structural features, identify the sources of the various magnetic and electromagnetic anomalies and the location of mineralized areas for gold and base metal mineralization.

LOCATION AND ACCESS

The 23 unpatented mining claims cover the area between mile posts 3 and 4 on the Whiteside - Carscallen Township boundary eastward for 1.5 miles in the west central portion of Carscallen Township, Porcupine Mining Division, District of Cochrane, Ontario as shown in Figure 1.

The project area is located approximately 4.0 miles (6.5 km) west of the junction of Highways 101 and 144. An all weather gravel logging road leads northwards for 2.92 miles (4.7 km), then the west branch road is travelled for about 1.1 mile (1.8 km). At this junction, 0.87 miles (1.4 km) on the north branch road leads to the south boundary on the east part of the property while the northwest branch road intersects the south boundary on the western side about 1.4 miles (2.25 km) from the junction.

VEGETATION AND TOPOGRAPHY

The Carscallen Township Property and the majority of the surrounding area has been extensively logged during the late 1970's and early 1980's. The remaining vegetation is second generation growth. This consists of white spruce, jack pine, white pine, poplar and birch in the more rugged topographic areas. The low lying areas consist of marsh grasses and tag alders along creek banks and beaver ponds, to flat areas of birch, black spruce and muskeg to cedar swamps. The large expanses of outcrop areas generally are barren of vegetation but in places clumps of black and white spruce can be found.

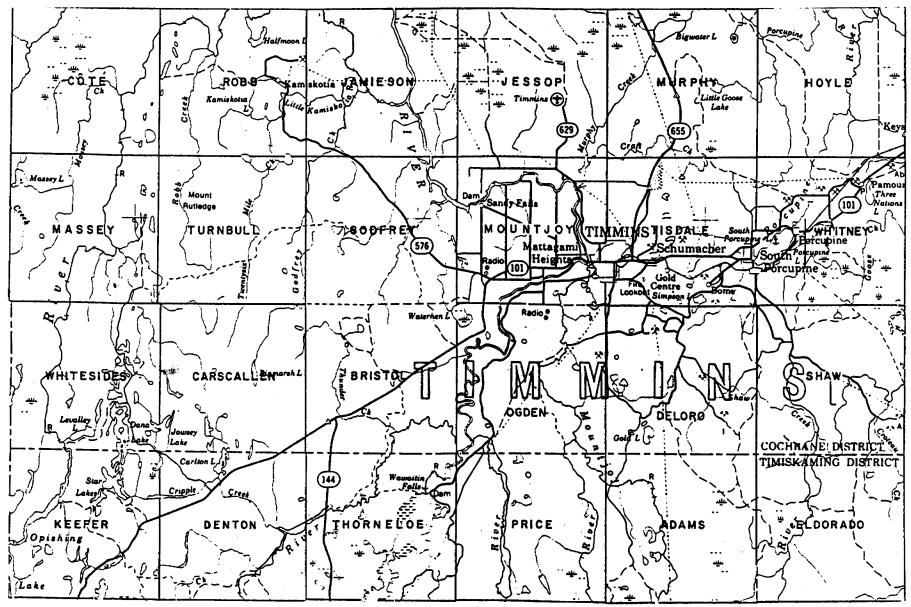


Figure 1: Location Map of the Carscallen Property, Carscallen Township, Porcupine Mining Division, District of Cochrane, Ontario. Scale 1 inch to 4 miles.

The topography varies within the claim group from low lying swamps to high general flat top outcrop areas. The northern part is generally low lying with the central area being a mixture of moderate to low lying areas with high outcrop hills. The southern part appears to consist of a raised platform, higher than the high outcrop hills.

The overburden consists of muskeg humus in the swampy areas to sandy to sandy gravel in the remainder of the claim group.

PROPERTY

The Carscallen Property of 23 unpatented contiguous mining claims are held 100% by Tamaka Resources Incorporated, P.O. Box 72, King City, Ontario, LOG 1KO, as shown in Figure 2, and consists of the following mining claims and recording dates:

P-969811 to P-9698	314 inclus	sively March	22.	1988
P-997914 to P-9979				
P-1027211 to P-10:				
P-1033101		March	22,	1988
P-1033103 to P-103	33104 inclus	sively March	22,	1988
P-1033107		March	22,	1988
P-1033118 to P-10	33119 inclus	sively March	23,	1988
P-1033120 to P-103			22,	1988
P-1034545 to P-10	34546 inclus	sively April	8,	1988

PREVIOUS EXPLORATION ACTIVITIES

The following is a summary of the exploration activities for the claim group and the immediate area which has been filed for assessment work at the resident geologist's office:

In the summer of 1964, Lucky Strike Exploration Limited completed a ground electromagnetic and magnetic survey the north 12 claims of their 24 claims. A total of 13 of Lucky Strikes claims are within the present property. The four drill hole completed intersected from disseminated sulphide mineralization to 117.5 feet of massive sulphides.

During 1966, Mespi Mines Limited conducted an electromagnetic survey which identified at least 7 conductors. In 1967, Mespi diamond drilled 6 holes of which 3 holes, WC1, WC2 and WC3 are located within the Carscallen Property. Only one hole was partly assayed with results ranging as follows: Au trace to 0.025 opt, Ag trace to 0.03 opt, Cu 0.01 to 0.04%, Zn nil, and 0.02 for Ni.

During 1969, 10 claims which are all within the present property was explored by Claw Lake Molybdenum Mines limited. They completed electromagnetic and magnetic surveys on 4 claims and drilled 4 holes.

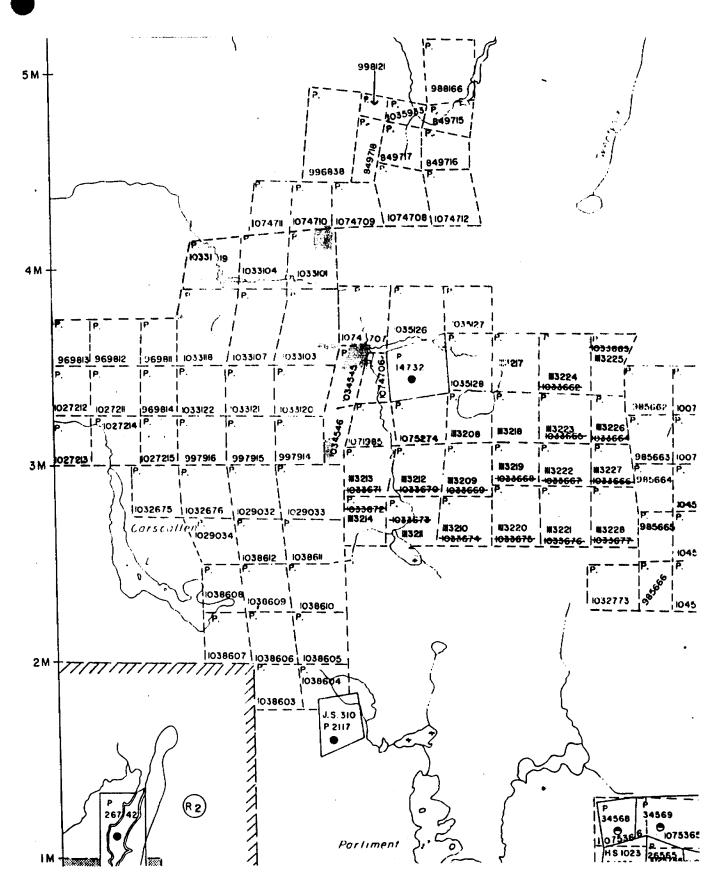


Figure 2: Claim Map and Property Location Map of the Carscallen Property, Carscallen Township, Porcupine Mining Division, District of Cochrane, Ontario.

Scale 1 inch to 1/2 mile.

In March 1972, Texas Gulf Sulphur Company completed a HLEM and magnetic survey on their 14 claims of which all but 4 are within the property.

During 1983, 2 claims by the township boundary and within the present claim group was held by Jean Roy who excavated 3 pits about 3 feet square and about 2 feet deep. All assays were trace to nil.

During June and July, 1988, the author conducted prospecting on the property (Internal Report - not filed with M.N.D.& M.)

During February and March, 1989, the property of F. Zoebelein was surveyed with 23.36 miles of total field magnetic and VLF-EM surveys.

GENERAL REGIONAL GEOLOGY

The bedrock in the area consists of an early Precambrian intermediate to mafic located in the west central part of Carscallen Township and felsic metavolcanics in the northeastern portion of the township.

The metavolcanics have been intruded by dioritic to gabbroic dikes or sills and irregular shaped pluton which has an approximate diameter of 8 miles at the junction of Carscallen, Whitesides, Turnbull and Massey Townships.

The next intrusives in the area vary in composition but are generally felsic intrusive batholith located in the southwestern portion of Carscallen Township.

Intruding all the above lithological units are north to north-northwest trending diabase dikes.

The structure in the area appears to be dominated by north northwest trending transverse faults, several are filled by the later diabase dikes.

GEOLOGICAL SURVEY

INTRODUCTION

The geological survey of the 23 continuous mining claims of Tamaka Resources Incorporated was conducted by the author from September 17 to November 9, 1990.

Access to the various parts of the claim group is by a network of logging roads. The claim group is covered extensively by sand to sandy gravel deposits with approximately 5% outcrop areas which are generally located in the northern portion of the claim group.

Figure 3 illustrates the results of the geological survey of the 23 continuous mining claims with a map scale of 1 inch to 200 feet.

LITHOLOGICAL UNITS

Mafic to Intermediate Metavolcanics:

The most dominate lithological unit within the mapping area are mafic to intermediate metavolcanics of basaltic composition and metamorphosed to the greenschist facies. The mafic metavolcanics are usually massive, uniform, relatively thick volcanic flows, fine grained to medium grained, medium green to dark green in colour, and weathers to medium green.

The intermediate metavolcanics are massive to tuffaceous, relatively thin units. The banded tuffs to pyroclastic tuffs are aphaneritic to fine grained, medium green to greyish green. The pyroclasts are usually a lighter greyish green to buff light green and appear to be angular to slightly stretched with the long axis of deformation in the direction of the bedding, local schistosity and minor shearing. Locally, the tuffs and pyroclastic units contain fine grained magnetite and/or graphitic narrow banded iron formations. Generally, they are void of sulphides but in scattered locations the sulphide content may contain up to 1% disseminated, fine to very fine grained pyrite.

Locally, near zones of shearing, the mafic to intermediate metavolcanics has a pervasive weak to moderate halo of carbonatization. In a few locations, the metavolcanics have been altered to a sericitic chlorite schist.

Felsic to Intermediate Metavolcanics:

This unit consists of felsic tuffs and pyroclastic tuffs to massive rhyolite flows. The rocks are generally light grey to pale green greyish white with the more mafic beds being medium green. The matrix is aphaneritic to fine grained, siliceous and dark green to black in colour with the composition of rhyolite. The size of the pyroclasts are generally stretched up to 1 1/2" long. Trace to less than 1% sulphides are found in isolated areas. Some magnetite to cherty iron formations area located within this unit.

Metasediments:

Since true metasediments were not located within the claim group, the iron formations were probably derived from and during the mafic and felsic volcanic activities.

The iron formations consists of a) magnetite bands, b) magnetite and graphitic bands, c) magnetite, carbonate and graphitic bands, d) magnetite and cherty bands, e) massive sulphide units.

The main iron formation has been traced from the northwestern portion of the property to the southeastern portion of the property with both the magnetic and electromagnetic surveys. Also, other linear magnetic features from the geophysical surveys appear to correlate with the geological survey locations of additional iron formations.

Ultramafic Intrusives:

These intrusives are characterized by medium to coarse grained, blackish blue to black green, moderately to strongly magnetic, gabbroic dikes or sills and irregular bodies. In isolated areas of the gabbroic intrusives, minor amounts of sulphide mineralization were located.

Felsic Intrusives:

The felsic intrusives are generally medium grained, pinkish on fresh surface to a whitish pink on weathered surfaces, quartz feldspar porphyritic dikes. The only known location is located east and north of the adit area.

Diabase Dikes:

The diabase dikes range from narrow, less than 20 feet, to wide, more than 100 feet, dikes. Generally, the dikes are fine grained throughout if narrow or fine grained on the contact areas grading to medium grained and coarse grained within the core area. All the diabase dikes are olivine magnetite dikes generally trending from due north to north-northwest. It appears that they bisect all the geological units within the claim group. In isolated areas, minor amounts of sulphide mineralization is located at or near the chilled margins of the diabase dikes.

STRUCTURAL GEOLOGY:

The prominent evidence of structural features within the property is the presence of carbonatization and shearing.

A later structural event trending between due north to north-northwest was filled with the olivine diabase dikes. This structural event is preserve in the mafic and felsic metavolcanics.

The schistosity of the metavolcanics vary from N 082 E and dips 75 South to N 100 E and dips 74 North. This may indicate the presence of an anticlinal structural feature. The bedding of the various tuffs and pyroclastics range from N 135 E dipping 80 South in the southeastern portion of the property to N 100 E dipping 78 South in the southwestern portion of the property.

The shearing of the mafic metavolcanics and the felsic pyroclastics range from N 100 E to N 135 E respectively in the northwest to the southeast parts of the property.

MINERALIZATION:

The dominate sulphide mineralization located within the claim group is fine to medium grained pyrite. This is usually associated with zones of shearing, carbonatization and sericitization. Fine grains of pyrite and pyrrhotite are associated with the iron formations.

An old adit was located in the northwest corner of claim 1033107, about 120 feet west of Line 52+00 East at 42+00 North. This adit was drifted on a massive sulphide zone for about 20 feet. Numerous trenches are located on top of the hill and to the south on another sulphide exposure. The odd quartz veinlet is located within the sulphide zone.

Along strike of the adit to the northwest, 60 feet east of Line 48+00 East at 45+20 North sulphides were located in a pit which contained silicified mafic metavolcanics. Further to the northwest, scattered sulphides were located in a gabbroic body about 230 feet east of Line 40+00 East at 46+60 North.

Along strike of the adit and to the southeast, two bands of iron formation about 60 feet apart is exposed near Line 68+00 East at 35+00 North. The south part is rusty and carbonated iron formation in volcanic tuff while the northern iron formation is about 10 feet wide with varying silicified and carbonate phased with about 15% to 20% pyrite. About 65 feet south a quartz vein in volcanic tuff was exposed.

A magnetite and sulphide iron formation is located in the central part of claim 969813. The southern exposure is 15 feet west of the road or 80 feet east of Line 4+00 East at 28+60 North, and consists of a 35 foot wide band of magnetite iron formation with lenses and bands of massive sulphides. The main iron formation is about 60 feet east of Line 4+00 East at 29+80 North and consists of massive sulphides in bands and irregular shaped masses within mafic metavolcanic tuffs. About 15 feet further north is a graphitic tuff with sulphides and a quartz veinlet with pyrite, pyrrhotite and chalcopyrite. About 40 feet to the east of the road at about 110 feet east of Line 4+00 East at 30+70 North, is a sheared volcanic tuffs with a narrow iron formation containing 20% sulphides in sugar quartz veinlet within in massive sulphides.

On the north side of the loop road, from Line 20+00 East to Line 28+00 East at about 21+00 North, the exposure consists of north trending diabase dikes with massive dark green metavolcanic. Throughout the numerous scattered mafic metavolcanic outcrops, the sulphide content ranges from less than 1% to about 5% fine to medium grained sulphides, generally pyrite.

Historically, other sulphide mineralization was located. These locations were from previous diamond drilling, such as:

- 1) Lucky Strike drilled four holes. Drill hole 1 intersected 117.5 feet of massive sulphides within the iron formation which assayed nil to 0.004 opt Au, 0.03% to 0.04% Cu, nil Ni and 0.02% Zn. This iron formation was also intersected by drill holes 3 and 4.
- 2) Claw Lake Molybdenum Mines Limited drilled four holes. Hole 69-1 intersected a 6 foot band of iron formation. Hole 69-2 intersected 40 feet of sediments with heavy pyrrhotite mineralization, 20 feet of felsic tuff with up to 30% pyrite and pyrrhotite, and 30 feet of siliceous sediments with 15% to 20% pyrite and pyrrhotite.

Hole 69-3 intersected 12 feet of heavy pyrrhotite, massive pyrite and traces of chalcopyrite, and this was followed by 15.5 feet of 80% pyrite and pyrrhotite. In a tuff and iron formation deeper in hole 69-3, 209 feet of pyrite and pyrrhotite mineralization ranging from 5% to 90% was intersected. Hole 69-4 intersected 8 feet of 60% massive pyrite and pyrrhotite.

3) Mespi Mines Limited drilled three holes on the property numbered from WC-1 to WC-3. Hole WC-1 intersected 22 feet of 30% pyrrhotite and pyrite. Hole WC-2 intersected 7 feet of massive sulphides which contained 0.03 opt Ag, 0.01% Cu and 0.02% Ni. The contact zone of an intrusive assayed 0.025 opt Au and 0.02% Cu. Hole WC-3 intersected disseminated and stringers of pyrite, pyrrhotite with minor chalcopyrite over 23 feet.



CONCLUSIONS

The geological survey indicated the lithological units within the property and located many sources of sulphide mineralization usually associated with iron formations, gabbroic intrusives and contact areas between the mafic metavolcanic and felsic metavolcanics. Many of the electromagnetic anomalies correlate to known locations of sulphide mineralization. The property is probably more of a base metal prospect than a precious metal prospect.

RECOMMENDATIONS

Based on the results of the present survey and the previous geophysical surveys and the diamond drilling conducted by other mining and exploration companies, a limited diamond drill program is warranted to explore from base metal potential of all the electromagnetic anomalies and the outcrops of sulphide mineralization.

Dated at Timmins, Ontario December 12, 1990

Respectfully submitted,

2.3969

CERTIFICATE

With reference to my report on the Geological Survey on the Carscallen Township Property of Tamaka Resources Inc. Dated December 12, 1990.....

- I, Kian A. Jensen, of the City of Timmins, Ontario, do hereby certify the following to be true and accurate to the best of my knowledge:
- 1) That I received an Honour B.Sc. degree in Earth Science, Geology Major, from the University of Waterloo,
- 2) That I have been employed as a geologist and/or geophysicist by various exploration companies and consulting companies since 1978,
- 3) That I have been and still am a member in good standing in the following associations:
 - a) Society of Exploration Geophysicists Associate, 1981
 - b) Geological Association of Canada Fellow, 1983
- 4) That I am the author of the corresponding report, and have been actively exploring and prospecting in the Timmins area since 1981,
- 5) That I have no interest directly or indirectly in the mining claims comprising the property described in this report or in the shares of any company or companies in this joint venture on this property or the surrounding properties, nor do I expect to receive any directly or indirectly.

Dated this 12th of December, 1990 Timmins, Ontario

Kian A. Jensen, B.Sc. Consulting Geologist/Geophysicist

LETTON

SOCIATIO



(89/06)

Ministry of Northern Development and Mines



Report of Work

Instructions

- Please type or print.

Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

- If number of mining claims traversed exceeds space on this form,

attach a list. - Technical Reports and maps in duplicate should be submitted to

Mining A	Act	(Geophys	ical, Geo	logical an	d Geo	chemi	ical Surv	eys)	- Technica Mining La	l Reports ar ands Section	nd maps in n, Mineral	duplicate : Developmen	should be su nt and Lands	bmitted t
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GEOLOGICAL SURVEY					PORCUPINE				CARSCALLEN TWP					
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DOCUMENT No. M 9106-000

Instructions A. Please type or print.

Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

- If number of mining claims traversed exceeds space on this form,

Report of Work

(Geophysical Geological and Geochemical Surveys)

- Technical Reports and maps in duplicate should be submitted to

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Type of Survey(s)	CAL SURV		Mining Division PCRCUPINE		Township or Area G3040 CARSCALLEN TWP						
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Special Provisions		Days per		Mining Claim		Mining Claim		ining Claim			
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Enter 40 days. (This includes line cutting)	- Magnetometer		P	969812	P	1033120					
For each additional survey: using the same grid:	- Other		P	969813	P	1033121	\square				
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AREAS WITHDRAWN FROM DISPOSITION

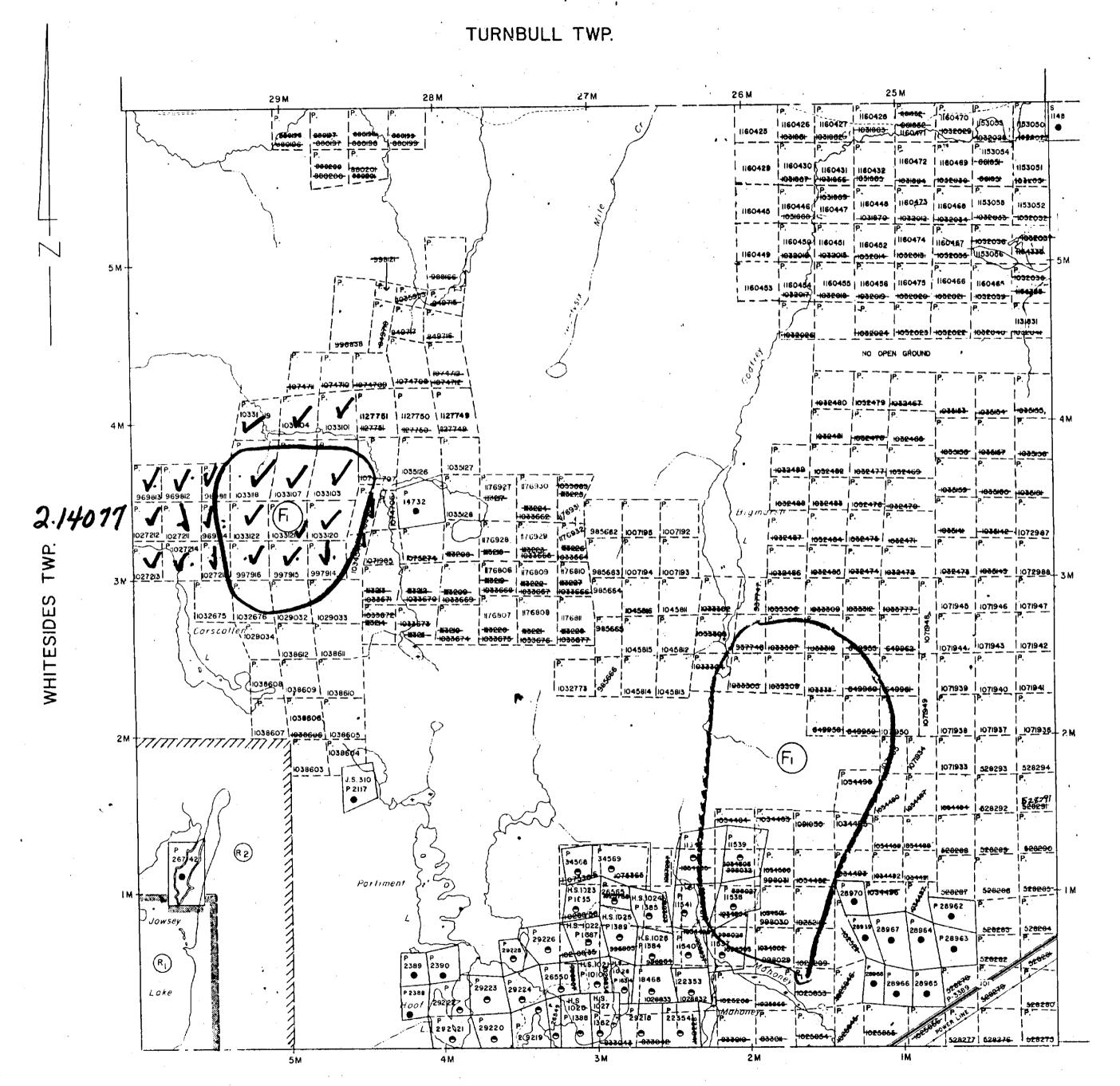
M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY M.+ S. - MINING AND SURFACE RIGHTS

SEC. 42 (R.S.O. 'GO) FEB. 3/66 M. 8 S.

(R 2) -DANA AND JOESEY LAKES PARK RES. SR.O. SEC: 36/80 W66/83 NOV.18/83 M.R.O.

TI- THIS TWP SUBJECT TO FOREST ACTIVITY 1991/92 FURTHER INFORMATION AVAILABLE ON FILE.



BRISTOL

LEGEND

DISPOSITION OF CROWN LANDS

PATENT, SURFACE & MINING RIGHTS

" , MINING RIGHTS ONLY LICENCE OF OCCUPATION

RESERVATION _____ 🕙

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.

LEASE, SURFACE & MINING RIGHTS...... " SURFACE RIGHTS ONLY.....

SURFACE RIGHTS ONLY..... , MINING RIGHTS ONLY

HIGHWAY AND ROUTE No.

TOWNSHIPS, BASE LINES, ETC.

LOTS, MINING CLAIMS, PARCELS, ETC

OTHER ROADS

SURVEYED LINES

UTILITY LINES

RESERVATIONS

MINES

ORIGINAL SHORELINE

TRAVERSE MONUMENT

TYPE OF DOCUMENT

MARSH OR MUSKEG

UNSURVEYED LINES: LOT LINES

> PARCEL BOUNDARY MINING CLAIMS ETC.

NON-PERENNIAL STREAM

RAILWAY AND RIGHT OF WAY

FLOUDING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN

TRAILS

TOWNSHIP

M.N.R. ADMINISTRATIVE DISTRICT

SCALE: 1 INCH = 40 CHAINS

TIMMINS

MINING DIVISION

PORCUPINE

LAND TIFLES / REGISTRY DIVISION

COCHRANE



Ministry of Land

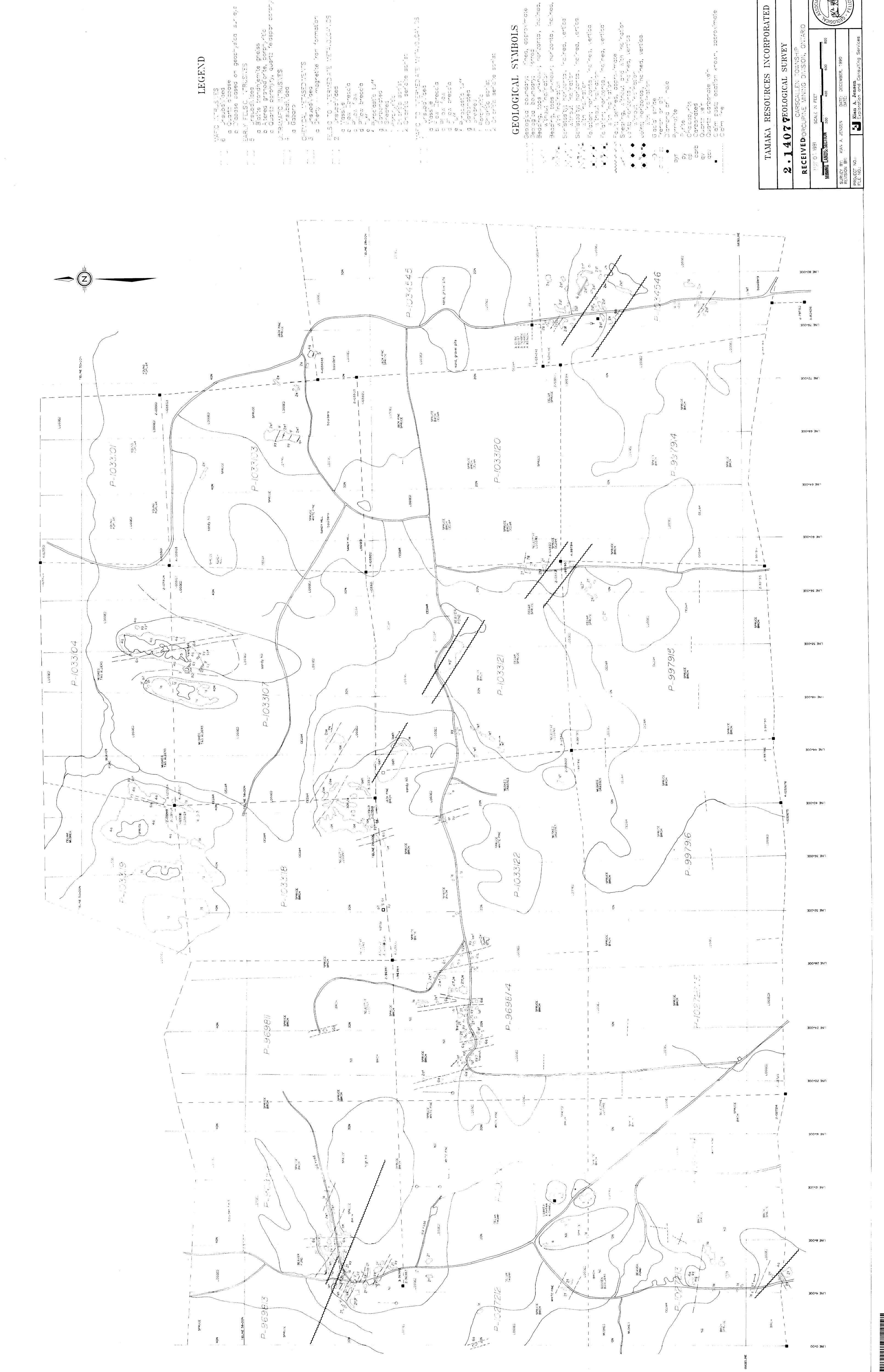
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