

WAGKICH LAKE PROPERTY

REPORT ON GEOPHYSICAL SURVEYS

SUMMER 1977

Project #133.1

INTRODUCTION

A magnetometer and horizontal loop E.M. surveys were performed from September 27 - 29, 1977 and June 13 - 23, 1977 respectively. These were done upon the Wagkich Lake grid which consists of 21.3 kilometers of grid line and 1.5 kilometers baseline. Line spacing is 100 meters oriented North-South. Pertinent data regarding the surveys are presented on maps accompanying this report. Data regarding the instruments used may be found in the Appendixes to this report.

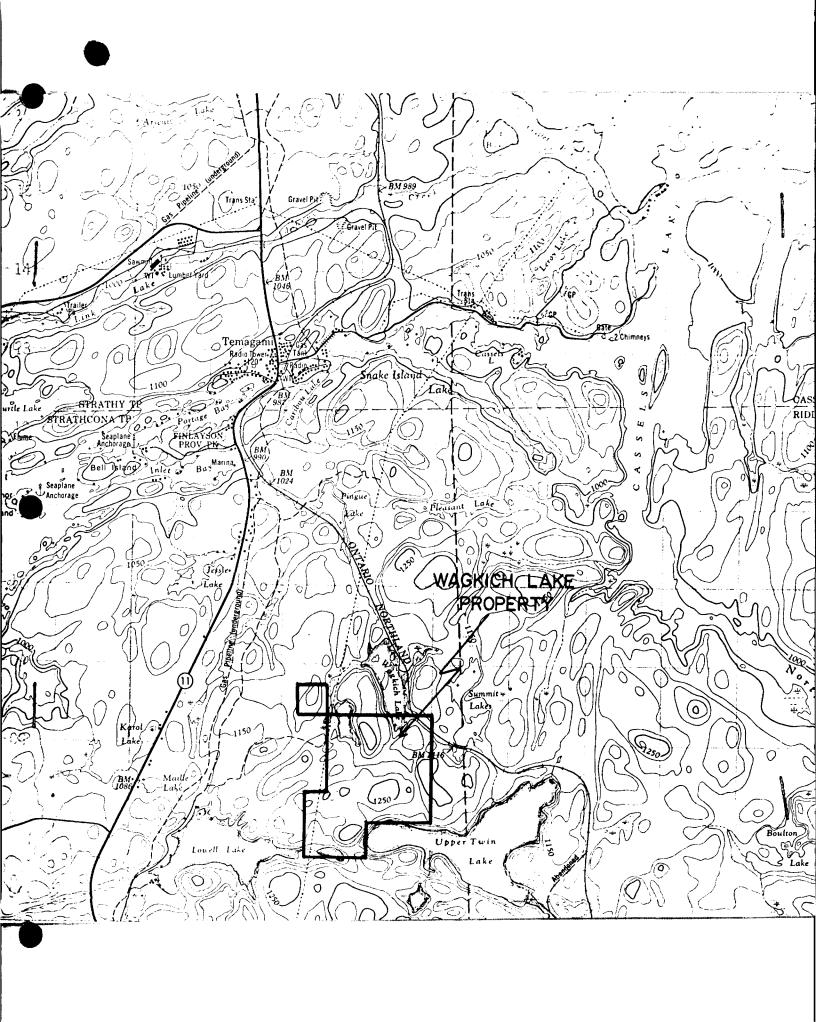
LOCATION and ACCESS

The Wagkich Lake property is located approximately 5.5 kilometers south-southeast of the town of Temagami, Ontario, in Strathy Township. It is bounded to the north by Wagkich Lake, to the south-southeast by Upper Twin Lake and to the Southwest by Lowell Lake. The property is shown on map 31M/4 at grid reference 927074 or approximately Latitude 47°01'05"N and Longitude 79°46'28"W. The accompanying map summarizes the above location information.

Access to the property is possible by the Lowell Lake all weather gravel road which exits easterly from Ontario Highway 11 approximately 8.0 kilometers south of the town of Temagami. About 5.0 kilometers by road after leaving highway 11 is a juncture with a large Ontario Hydro power line. This point lies in the northwest part of the property.

PROPERTY and CLAIM STATUS

The Wagkich Lake property consists of 13 contiguous claims numbering 478705 to 478717 inclusive. The property is held by St. Joseph Explorations Ltd., 90 Eglinton Ave. West, 5th Floor, Toronto, Ontario, M4R 2E4. This work is being submitted by and for the aforementioned company.



PREVIOUS WORK

The area has evidently been staked previously, but to the writer's knowledge no previous work has been done upon the property.

RESULTS and INTERPRETATION

Horizontal Loop E.M. Survey

A Max-Min II E.M. unit employing a frequency of 888 Hz was used for the survey. Lines 4+00E - 15+00E were run with a 200 meter cable and lines 0 - 3+00E and the small grid off baseline 1100N to the north with a 100 meter cable.

Readings were taken every 25 meters. The quantities measured were the In-phase and Out-of-phase components (in percentages) of the secondary electromagnetic field. Details regarding the instrumentation can be found in the appendixes.

The results of the survey are presented on the enclosed Horizontal Loop E.M. Survey map. Profiles of the In-phase and Out-of-phase components are shown. Study of the profiles shows no recognizable anomalies other than suspect reading due to short cables. No near surface highly conductive zones seem to be present in the area surveyed.

Magnetometer Survey

The magnetometer survey was done with a Barringer GM-122 Proton Magnetometer and diurnal monitoring with a Scintrex MBS-2 base station. Details regarding the instrumentation can be found in the appendixes. The previous described grid was run with readings every 25 m. Proton magnetometers measure the earth's total magnetic field at any given point. This is a scalar measurement.

Results of the survey are presented on the enclosed Magnetometer Survey map. The readings have been plotted and contoured with a 100 gamma interval.

Study of the magnetic data reveals a relatively flat area in the north central grid area. An area of higher magnetic relief runs across the southern portion of the grid and up the east side as well. It is felt this southwest-northeast band could be associated with Diabase dikes and sills intruding the Huronian Tillites which cover the area. The frequency of the anomalies suggest fairly shallow depths. In the extreme southwest corner of the grid near line 1+00E, 3+00S to 6+00S is a confined area of fairly large high amplitude forced readings. These probably represent power-line interference. This is also reflected in the horizontal loop data.

CONCLUSIONS

The magnetometer and horizontal loop E.M. surveys show no targets which might be considered associated with possible economic mineralization.

Respectfully submitted.

James 2. Wright

JLW*MS June, 1978 J.L.Wright
Geophysicist



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GEOPHYSICAL – GEOLG TECHNICAL DA



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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) Magnetometer, Horizontal Loop E.M.	
Township or Area Strathy	MINING CLAIMS TRAVERSED
Claim Holder(s) St. Joseph Explorations Limited	List numerically
	EM MAG
Survey Company St. Joseph Explorations Limited	s /2 478705 3 COV
Author of Report J.L. Wright	(prefix) (number)
Address of Author 90 Eglinton Ave. W., Ste. 505, Toronto	S 478706 ✓
Covering Dates of Survey June 1 - Sept. 29/77 M4R 2E4	
(linecutting to office)	s 3 478708 2
Total Miles of Line Cut 22.8 kilometers	
	s 3 478709 4
SPECIAL PROVISIONS DAYS	s 3 478710 4
CREDITS REQUESTED Geophysical per claim	l lä
-Electromagnetic 40	S 478711 /
ENTER 40 days (includes line cutting) for first Magnetometer 20	s 478712
survey. —Radiometric	s 478713 /
ENTER 20 days for each —Other	······································
additional survey using Geological	s /2 478714 //3
same grid. Geochemical	s 4 478715 ~
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	s ² / ₃ 478716 2
Magnetometer Electromagnetic Radiometric	
(enter days per claim)	s 4 478717 ×
DATE:SIGNATURE:	EM
Author of Report or Agent	1 towns 1 = 3/2
()	Area not covered = 3/2
2.0.	$13 \times 40 = 520 \div (13+3)$
Previous Surveys Qualifications 2, 2330 4 On the file	= 37:5 day 2 hor alay
	/-
File No. Type Date Claim Holder	
	Mag
	Area not covered=24
	13×20=260 ÷ (13+2)
	=17.3 days per dalm
	TOTAL CLAIMS 13

GEOPHYSICAL TECHNICAL DATA

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

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j	Number of Stations	862 Magnetic & 733 I	Electromagnetic o	f Readings862	Magnetic &
	Station interval		Line spaci	733	Electromagnetic
	Profile scale				
	Contour interval				_
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. 1	Instrument	Barringer GM-122			
MAGNETIC	Accuracy - Scale	constant + 1 gamma	•		
		n method Magnetic base		(Scintrex)	
WA		k-in interval (hours) Reading			4
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얼	Instrument	Max-Min II E.M. U	nit	•	,
ELECTROMAGNETIC	Coil configuration	Horizontal Loop			
S	Coil separation	100 meters and 20	0 meters		•
×	Accuracy	+			•
IR	Method:	Fixed transmitter	☐ Shoot back	🖾 In line	Parallel line
S	Frequency	888 Hz			
ធា		red In-phase, Out-of-	(specify V.L.F. station)		
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INDUCED POLARIZATI

NOTES

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

SAND and GRAVEL

(a)- Gravel File 132830 (b)- Gravel File 146693

Sand and gravel in this township reserved until further

AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS M.R.-MINING RIGHTS

Section Order No. Date Disposition File

(R) 43 (R.S.O.1970) W.70/76 13/12/76 S.R. 146693

Island 25 (Bell Id.) - all Crown land reserved. File 68120 127 - 11 11 11 11 11 181119 11 49 (0'Connor) - 11 11 11 11 11 11 11 181200

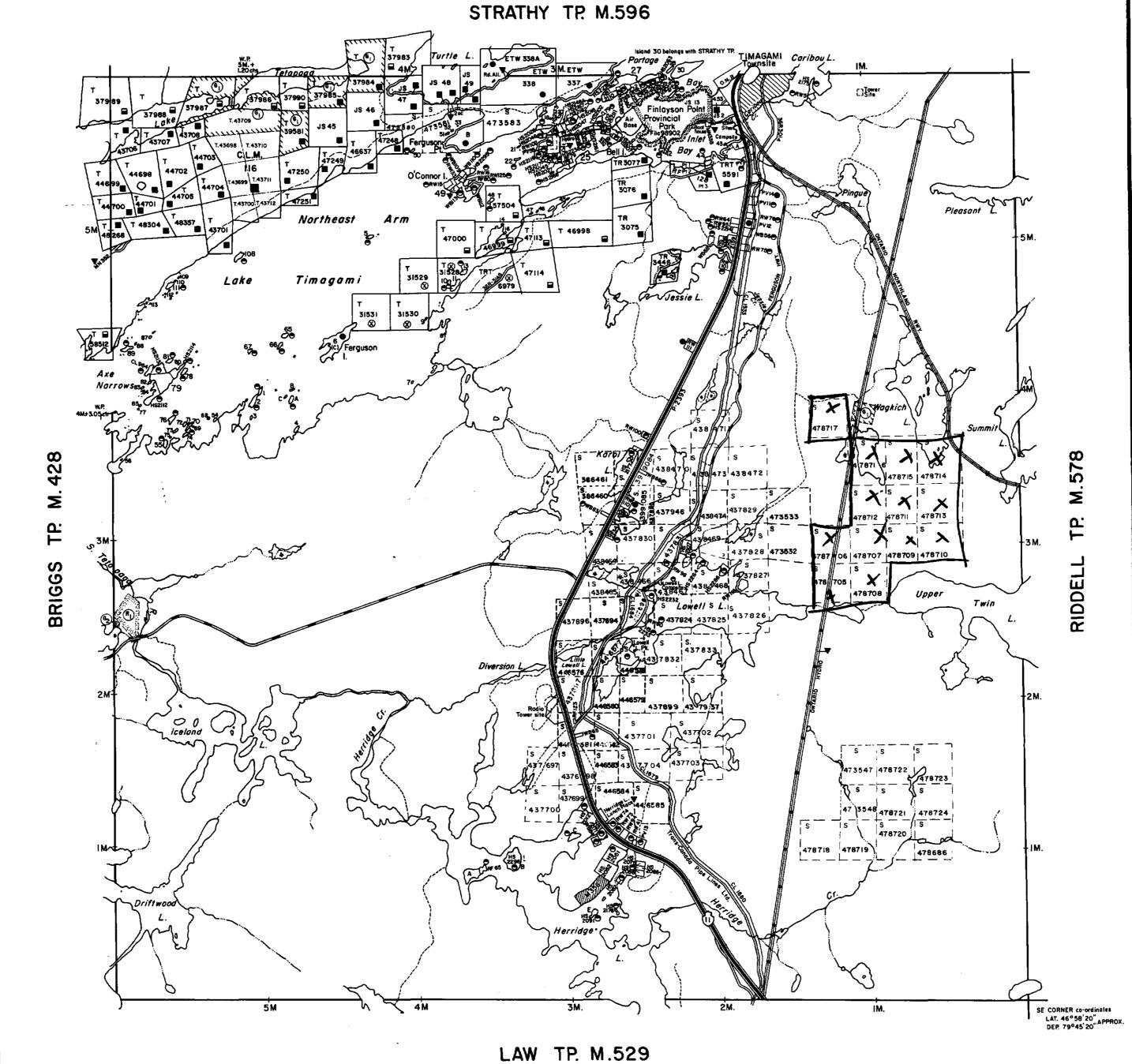
Islands in Lake Timagami NOT OPENED FOR STAKING.

This Township lies within THE CORPORATION OF THE IMPROVEMENT DISTRICT OF TEMAGAMI. File 176049.

Township closed to staking effective May 8 '78, Sec 387 of Mining Act.







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	HIGHWAY AND ROUTE No.	**
	TRAILS	
	SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC.	
İ	UNSURVEYED LINES: LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC.	
	RAILWAY AND RIGHT OF WAY	
İ	UTILITY LINES	
	NON-PERENNIAL STREAM	
	FLOODING OR FLOODING RIGHTS	
	SUBDIVISION	
	ORIGINAL SHORELINE	Name of the Party of the State
	MARSH OR MUSKEG	
	MINES	*

LEGEND

DISPOSITION OF CROWN LANDS

TYPE OF	DOCUMENT	SYMBOL
PATENT,	SURFACE & MINING RIGHTS	
**	SURFACE RIGHTS ONLY	
**	MINING RIGHTS ONLY	···· · · · · · · · · · · · · · · · · ·
LEASE,	SURFACE & MINING RIGHTS	
71	SURFACE RIGHTS ONLY	· · · ·
**	MINING RIGHTS ONLY	<u> </u>
LICENCE	OF OCCUPATION	······ 🔻
CROWN	LAND SALE	
ORDER-I	N-COUNCIL	OC
RESERV	ATION	<u>©</u>
CANCEL	LED	
SAND &	GRAVEL	©
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TOWNSHIP

2.2725

STRATHCONA

DISTRICT

NIPISSING

MINING DIVISION
SUDBURY



Ministry of Natural Resources

Ontario Surv

Surveys and Mapping Branch
Plan No.

Whitney Block Queen's Park, Toronto M.595

