

" GRADIOMETER "

REPORT

ALLERSTON OPTION

MATHESON - EVELYN TWP.

FOR

ST. JOE CANADA INC.

RECEIVED

JAN 1 3 1983

MINING LANDS SECTION

September 10th, 1982

J.C. Grant

Exsics Expl. Ltd.

land booding

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INTRODUCTION

This report deals with a gradiometer survey, carried out by Exsics Exploration Ltd. for St. Joe Canada Inc. The results of the survey are explained, in detail, within this report.

LOCATION AND ACCESS

The survey area is located approximately 20 miles northeast of Timmins. Access to the grid was by road from Timmins to the Matheson Evelyn Township line. An Argo was used for access to and from the survey grid.

GRID CHARACTERISTICS

The survey grid was divided into two groups. Group 1 covered Lots 7 to 10, Concessions V1 of Matheson Township and Lots 8 to 11, Concession 1 of Evelyn Township. Group 2 covered Lots 4 to 6, Concession V1 of Matheson Township.

The actual claims covered are listed below.

CERTIFICATE

- I, John Grant, hereby certify that:
- 1) I am a 1975 graduate of the three year program in Geological Technology at the Cambrian College of Applied Arts and Technology and I have worked subsequently as Chief Geophysicist for Teck Exploration (5 years) and Exsics Exploration Ltd.
- 2) The field work described in the attached report was carried out inder my supervision and the interpretation and conclusion contained therein are based on my training and professional experience.

John Grant.

Exains Exploration Ltd.

м A P S

GRID 1: Topography, Claims; Gradiometer Survey

GRID 2: Topography, Claims: Grdiometer Survey

APPENDIX A

The PPM-500, Omnimag, Vertical Gradiometer is by EDA Instruments Inc. The unit is capable of taking both total field and gradient readings at the same time.

The PPM-500 gradiometer is a differential magnetometer in which the spacing between the sensors is fixed (ie, 1 meter). The difference in the field intensity at each sensor divided by the distance which seperates the sensors is the gradiant measured at the mid point of the sensor spacing. The sensors are incorporated in a rigid pole which ensures that the sensors are at a fixed distance above the terrain every time that a reading is taken.

The gradiometer measures a gradient expressed in gammas per meter. The accuracy of the unit is 0.01 gammas per meter.

The unit is a portable, one man operation which can be programmed, in advance for line spacing, line position and station interval. The unit records and stores the readings at the push of a button and it also advances the station and storage space autimatically. The unit is attached to the DCU printer for field data dump.

SURVEY RESULTS

Gradiometer results for Group # 2

The overall gradiant survey showed major structure trends striking generally east-west across the entire grid. The strike length to these zones vary from 100 meters to 800 meters.

The gradiant survey results on L 800ME and L 1200ME show direct areas of high associated with the MM ll results called zone A. This gradiant high extends to the east off the grid as well as to the west of L 800ME to L 100ME.

A second gradiant trend of east-west strike is associated with the MM 11 zone B response to the north of the baseline located on L 1200ME and L 1600ME.

A third gradiant trend flanks, a moderate MM 11 response on L 2000ME, to the south.

In conclusion, the gradiant survey detailed numerous zones across the grid which may be in fact due to geological structure at depth. Also, the gradiant highs associated with the MM ll zones are of interest and should stimulate further EM to the east and west for more detail.

SURVEY RESULTS

Gradiometer results for Group # 1

The gradiant survey of this group showed major structural trends striking east-west across the survey grid. The majority of structure is evident in the central and western sections of the grid and little to no response from lines 0+00 to 1100ME.

The abscence of structure in the western portion of the grid may be suggesting that the strike of the area is changing in this area. This is supported by the Mag contour of the area which changes from east-west to north-south as you progress from L 400ME to L 0+00.

The gradiant survey has direct correlation with the weak to moderate MaxMin responses noted on L 2000ME and L 2400ME at 475MN and 450MN respectively.

There is also a correlation of sorts with the MM ll response noted on L 2400ME at 140MN. The MM ll response is situated between two gradiant highs trends striking east-west.

In conclusion, the gradiant survey generally corresponds to the Magnetic trends of the survey area. Also, because of the correlation of the gradiant and MM 11 responses, the areas of interest stated above should be further studied in detail.

TYPE OF SURVEY

The gradiometer survey was carried out using EDA's PPM-500 Gradiometer. All crosslines, tielines and baselines were read at 12.5 meter intervals on both groups 1 and 2.

The field data was obtained by attaching the PPM 500 to a DCU 400 thermal printer, also manufactured by EDA Instruments.

Detailed explanations of the PPM-500 and DCU-400 thermal printer are included in the back of this report as Appendix A.

LINECUTTING

A total of 54 kilometers of grid lines were cut on Group 1. The Baseline azimuth was 090 degrees. Cross lines were chained at 100 meter intervals with station intervals chained at 25 meter intervals.

A total of 23 kilometers of grid lines were cut on Group 2. The Baseline azimuth was 090 degrees. Cross lines were chained at 100 meter intervals with station intervals chained at 25 meter intervals.



Ontario, N2H 3E5

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



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Type of Survey(s)					Township (9 1	. 4
GRADIOMETER-G	EOPHYSICAL				MATHE	SON	erely	K)
ST. JOE CANAD	A INC.				Prospecto T11	or's Licence No.		
Address						1		117
159 BAY STREE	T, SUITE 614	, TORON	NTO, O				2-53	
Survey Company EXSICS EXPLOR	ለጥፐ M T.ጥD			Date of Survey		7 83	Total Miles of line	a Cut
Name and Address of Author (o	-	·····	-,	Day Mo.	Yr. Day	Mo. Yr.	<u> </u>	
JOHN C. GRANT								
Credits Requested per Each (Special Provisions	Claim in Columns at r			laims Traversed (I				<u> </u>
	Geophysical	Days per Claim	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend, Days Cr.
For first survey: Enter 40 days. (This	- Electromagnetic		P	632852		P	617735	
includes line cutting)	- Magnetometer			632853		-	617734	
For each additional survey:	- Radiometric			452498			617733	
using the same grid: Enter 20 days (for each)	- Other	20		452499			393738	
	Geological			452500			393739	
£	Geochemical	,		617738			393740	
Man Days	Geophysical	Days per Claim		624601			393741	
Complete reverse side and enter total(s) here	- Electromagnetic			624600			617737	
	- Magnetometer			393110			628018	
	- Radiometric			393109			628017	
	- Other			393108			618931	
	Geological			393107			618932	
,	Geochemical			393106				
Airborne Credits		Days per Claim		393105				
Note: Special provisions credits do not apply	Electromagnetic			393104				
to Airborne Surveys.	Magnetometer			393103		BEC	ORDE	
	Radiometric			452461				
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Total Days Credits may be ap			<u> </u>	For Office Use O	Inly	1		
choice. Enter number of days credits per claim selected in columns at right.			Total Day Recorded	s Cr. Date Recorded	- 1-4	Minima	poorder 300	
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Jan. 5, 1983 David Molley				July 25	183 1	Beglone	Minyng Records	15
Certification Verifying Report of Work				0			/	
I hereby certify that I have a or witnessed same during and					of Work anne:	xed hereto	, having performed	the work
Name and Postal Address of Pers	• •		_ •	,				
David E. Mollov	. 221 Pandor	a Crac	Ki+	chanar				

Date Certified Jan. 5/83 Certified by (Signature)

Ontario

OFFICE USE ONLY

Ministry of Natural Resources

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) Gradiome	ter Survey				
Township or Area Matheson					
Claim Holder(s) St. Joe	MINING CLAIMS TRAVERSED				
• • • • • • • • • • • • • • • • • • • •	St., Toronto, Ontario	List numerically			
	Survey Company Exsics Exploration Limited				
Author of Report John C.	Grant	(prefix) (number)			
	1880, Timmins, Ontario	***************************************			
Covering Dates of Survey June		see list attached			
· · · · · · · · · · · · · · · · · · ·	(linecutting to office)				
Total Miles of Line Cut	OU KM	•••••••••••••••••••••••••••••••••••••••			
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS				
GREDITO REQUESTED	Geophysical per claim				
ENTER 40 days (includes	-Electromagnetic				
line cutting) for first	-Magnetometer				
survey.	-Radiometric				
ENTER 20 days for each	-Other	•••••••••••••••••••••••••••••••••••••••			
additional survey using	Geological				
same grid.	Geochemical				
AIRBORNE CREDITS (Special prov	ision credits do not apply to airborne surveys)				
MagnetometerElectromag					
(enter	days per claim)	•••••			
DATE: September 5/82 SIGNA	ATURE John Sund				
	Author of Report or Agent	•••••••••••••••••••••••••••••••••••••••			
Res. Geol. Quali	fications				
Previous Surveys File No. Type Date					
File No. Type Date	Claim Holder				
••••••	••••••				
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		36			
		TOTAL CLAIMS35			

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

N	Number of Stations	2000	Number	of Readings 4000			
s	Station interval	12.5 meters					
	Contour interval						
r 7d	InstrumentEDA, PPM500 Gradiometer						
Ĭ	Accuracy - Scale constantO.l gamma						
MAGNETIC		thod <u>no diurnal</u>		gradiometer			
MA	Base Station check-in interval (hours)						
•	Base Station location	and value Lot 11,	Conc. 2, Mount	joy Twp.			
	* (see others	below)	}	•			
					•		
일	Instrument						
E	Coil configuration				***************************************		
Ş	Coil separation	W-14					
WC	Accuracy						
TR	Method:	Fixed transmitter	☐ Shoot back	☐ In line	☐ Parallel line		
ELECTROMAGNETIC	Frequency		(anadify VI F station)	· · · · · · · · · · · · · · · · · · ·			
μ)							
	Instrument						
	Scale constant						
Z							
GRAVITY							
S	Base station value and						
	V						
	Elevation accuracy						
	Instrument	<i>y</i> L					
	Method Time Do	main		requency Domain			
	Parameters - On time		· · · F	requency			
	- Off time		R	lange			
IVI	– Delay tir	ne					
IST	– Integrati	on time	**************************************				
RESISTIVITY	Power						
~1	Electrode array						
	Electrode spacing						
	Type of electrode						

INDUCT POLARIZATION



SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	
Size of detector	-
Overburden	
Overburden(type, depth - include out	crop map)
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey Gradiometer Survey	
Instrument EDA PPM500 Gradiometer	
Accuracy = 15 PPM @ 23°C, 50 PPM over o	perating temp. range
Parameters measured for the PPM500 Gradiometer.	
(F) lower sensor -(F) upper sensor.	
Additional information (for understanding results) The unand store total earth's mag field and the	its primary purpose is to measure vertical gradiant. The gradiometer
measures a gradient expressed in gammas I	per meter.
	•
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
Ispecify for each type of s	ourvey)
Accuracy(specify for each type of s	
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	ANALYTICA	L METHOD	S
Type of Sample (Nature of Material)	Values expressed in:	per cent p. p. m.	
Average Sample Weight		p. p. b.	
Method of Collection	Cu, Pb, Zn, Ni, Co,	Ag, Mo,	As,-(circle)
Soil Horizon Sampled	Others	. ,	V ²
Horizon Development	Field Analysis (tests)
Sample Depth		,	· · · · · · · · · · · · · · · · · · ·
Terrain	Analytical Method	***	
·	Reagents Used		
Drainage Development	Field Laboratory Analysis		
Estimated Range of Overburden Thickness	No. (tests
· · ·	Extraction Method		
•	Analytical Method		
	Reagents Used	· 	
SAMPLE PREPARATION	Commercial Laboratory (•	tests
(Includes drying, screening, crushing, ashing)	Name of Laboratory		
Mesh size of fraction used for analysis	Extraction Method		
	Analytical Method		
	Reagents Used		
General	General —		
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Ministry of Natural Resources

Geotechnical Report Approval

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	Comments	•			
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	To: Geology - Ex	penditures	<u> </u>	7	
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		M'/			
			Date	Signature	
	Approved	Wish to see again with corrections			
_	To: Mining Land	s Section, Room 6462, Whitney Block,	(Tel: 5-1380)		•

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

Dear Sir:

We have received reports and maps for a Geophysical (Sradiometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 632852 et al in the Township of Matheson.

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

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

DW:sc

cc: St. Joe Canada Inc Toronto, Ontario

cc: John C. Grant Timmins, Ontario

628018 -106-105-017-

104-1 618931-1

103-932

452461-

462-1

463-1

Little Twp. 522285 52<u>22</u>84 684506 700700 | 70 0714 700602 |700 | 601 | 700594 | 700593 700809 700816 700586 700623 700622 700615 700614 700611 700713 700706 699191 699184 Nerandeau 700587 700624 700621 700616 700613 | 700612 700603 |700600 700699 700715 700712 700707 699190 699185 700810 1700815 700599 700596 700591 700588 700625 700620 700617 700711 | 700708 | 699 | 89 | 699 | 86 700805 700808 700811 684499 700605 758141 700697 | 700696 | 700710 | 700709 | 699188 | 699187 700590 700589 700626 700806 |700807 700812 / 700813 684497 | 684498 700786 700790 681563 681562 699097 | \ 700606 700635 700634 700627 683584 | 683585 | 683586 | 683587 681564 681561 681560 700792 700799 7 00802 757045 699053 700698 C98968 700632 700629 700835 70083 6 700788 |68/055 | 681559 |681558 683576 683577 683578 683579 684472 684471 68449! | 684492 | 684467 | 684468 | 684469 | 684470 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 700510 | 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683520 683517 649838 649835 649826 649823 684013 684016 684018 684021 683490 6498271649822 652571 1652572 684017 661603 60:502 68349 2 683501 603:07 683512 683513 698339 683529 683524 683521 683516 649839 649834 684425 684426 6835 30 683523 683522 649841 649840 649829 649828 652577 652570 652573 652574 652575 652576 683493 684424 684423 683511 [683514 652746 652743 652730 652730 652729 652728 652718 652734 652736 652749 652750 652720 652721 68 3509 683515 652716 652713 652762 652761 652745 652744 652732 652731 28169 33007 652719 652738 652737 652752 652751 652723 6 8 FILE N2 652716 652714 652763 652760 8527 67 652756 652755 652742 652741 652 740 652738 |652753 | 652764 | 652765 | 652766 | 652778 P P 452498 452499 452500|617738 624601 |624600 632652 632653 632849 652759 632754 652769 652768 652767 652770 698348 6988 49 10 9 3

2.534?

Dundonald

THE TOWNSHIP OF

EVELYN

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: I-INCH= 40 CHAINS

LEGEND

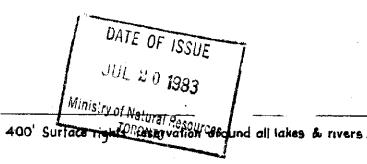
PATENTED LAND CROWN LAND SALE LEASES LOCATED LAND LICENSE OF . OCCUPATION MINING RIGHTS ONLY SURFACE RIGHTS ONLY ROADS IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES MARSH OR MUSKEG MINES

S or C.S. Loc. L.0. M. R.O.

NOTES

This township lies within the Municipality of CITY of TIMMINS.

- 27	withdrawn from staking under Section from Mining Act (R.S. o. 1970)					
	P -Mc	File	Date	1	Disposition	
(%)	W. 28/75	134839	4/6/75		s. R.O.	
®	W. 19/78	198543	#0/A578		5.R.O.	
₹ 30 €	Seological No	iture Reserve	4/2/80	File 18	8543	
®a Pu	blic Access R	es. 136416 4	9/7/58		S.R-Q.	
(Ps) N	A.N.R. Reser	ve , S.R.O.	25/7/58,	File	160705	
® P	ublic Access	Res. , S.R.O.	8/11/56	File	134636	
₹ Pt	iblic Access	Res., S.R.O.	20/9/56	File	134833	



Flooding Rights Reserved to 903' Contour to H.E.P.C. Around Frederick House Lake.

PLAN NO.- M-277

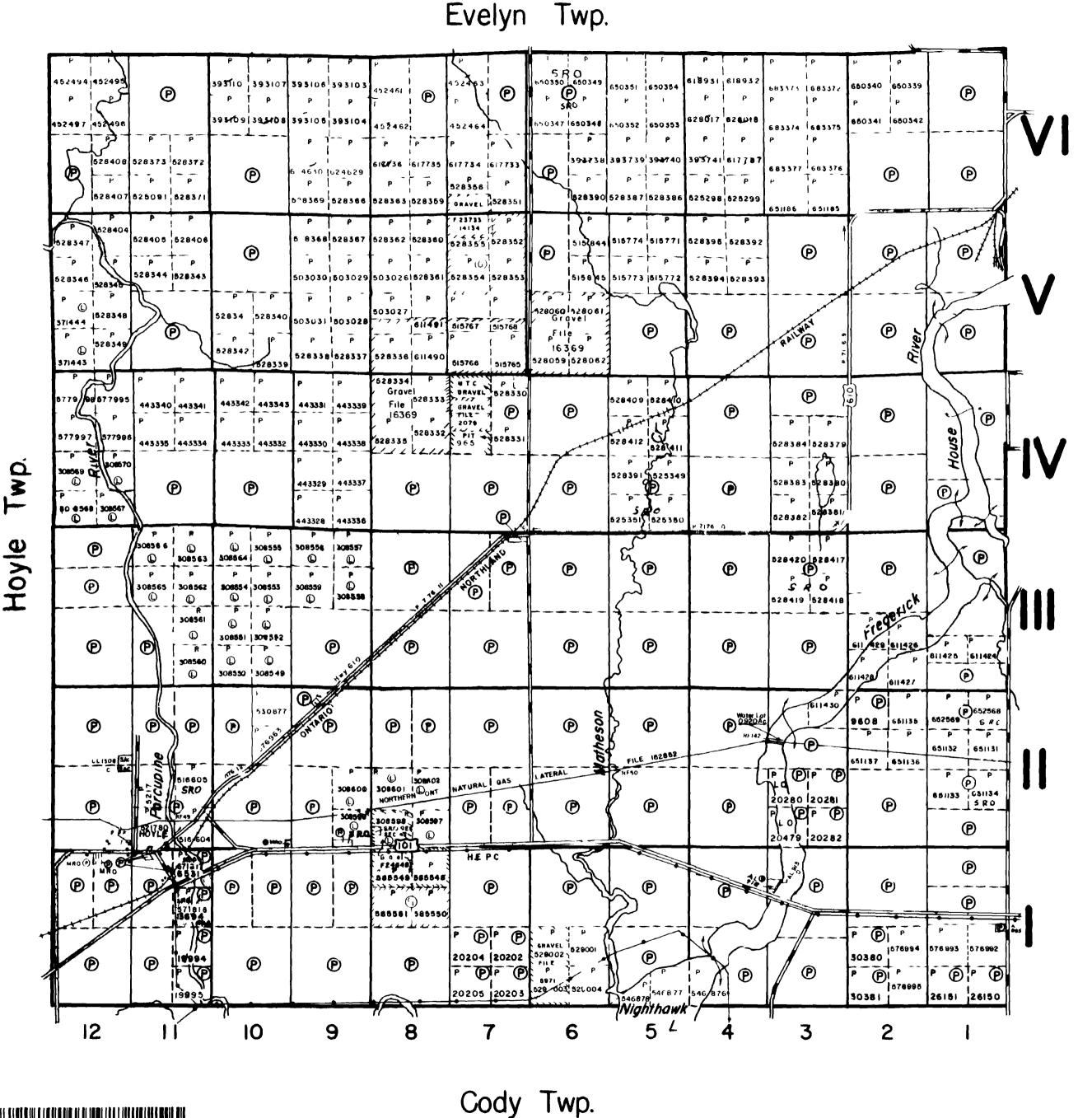
ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

owan

Matheson Twp.



THE TOWNSHIP
OF

MATHESON

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE I-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

(*)

NOTES

Reserve Flooding Rights to 903' Contour to HEPC on Frederick House River.

400' Surface rights reservation around all lakes & rivers

This township lies within the Municipality of CITY of TIMMINS

RESERVATIONS

MINES

German

SAND AND GRAVEL

(G) QUARRY PERMIT () (1)

(G) MNR GRAVEL RESERVE FILE 24648

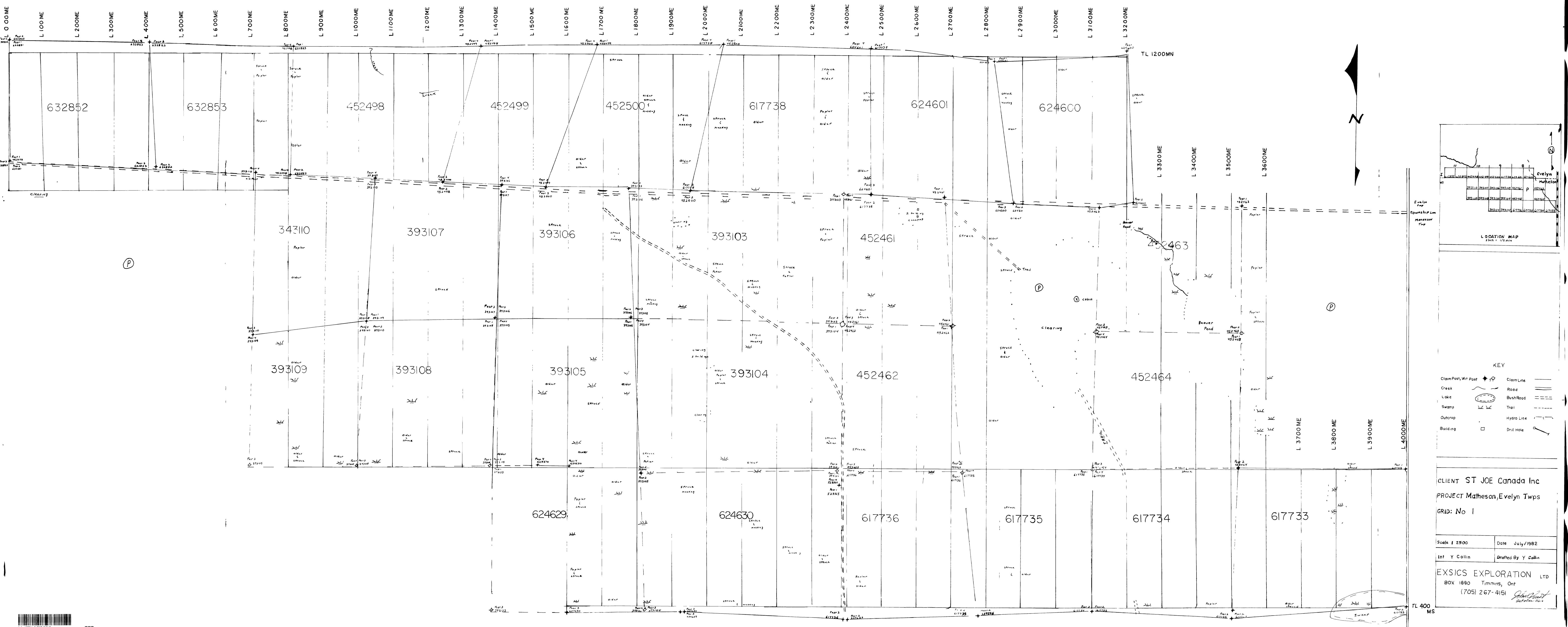
PLAN NO.- M-297

ONTARIO

MINISTRY OF NATURAL RESOURCES

THEY ATT PING BRANCH

42A I Ni 654 | 2 5347 EVELYN



2 2-2

L 200ME

L 200ME LOCATION MAP LEGEND Total Magnetic Field in gammas 59+200 ----Magnetic Contour 5 gamma intervals Magnetic Depression Base Station Location Profile Scale /cm = /%Line Base for Profiles = O =_ FM 500 '40 C = =K <u>KEY</u> BushRoad ===== EDA PPM 500 MAGNETIC GRADIOMETER CLIENT STJOE CANADA Inc PROJECT MATHESON, EVELYN NO I SURVEY GRADIOMETER Interpretation J Grant | Drafted By R Collin EXSICS EXPLORATION Ltd Box 1880 Timmins, Ont (705) 267-4151 - 43 7 TL 400 L

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