2.2348



REPORT ON THE

ELECTROMAGNETIC & MAGNETIC SURVEY

GROUP F

RECEIVED AFR - 6 1977 PROJECTS UNIT.

ENGLISH RIVER PROJECT

FOR

MATTAGAMI LAKE MINES LIMITED

INDEX

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INDEX MAP: SCALE: 1" = 1320'		Ň

APPENDIX

POCKET 1

EM-17 Horizontal Loop 200' Scale: 1" = 200'

POCKET II

EM-17 Horizontal Loop 300' Scale: 1" - 200'

POCKET III

Magnetics Scale: 1" = 200'

POCKET IV

Proposed Diamond Drill Hole Sections Zone A, 16E

INTRODUCTION

Group F consists of 4 claims and was staked to cover 4 airborne responses: 81D, 82B, 83B and 84E. A grid of N-S lines, spaced at 400 foot intervals, was used to cover the anomalies. An electromagnetic and magnetic survey carried out over the entire 5.6 line mile grid.

The surveying was carried out by the crews of Mattagerai Lake Mines Limited on October 18 and 19 and also November 5 and 6, 1976.

GEOLOGY

Regionally the area falls within the Watcomb metavolcanics which are part of the Wabigoon volcanic subprovince. Horwood (1938) describes the survey area as being underlain by mafic to intermediate metavolcanic and pyroclastic rocks.

LOCATION AND ACCESS

The group is located about 17 miles east of Sioux Lookout just north of Hwy. 642, one mile north of Pen Lake.

The southwestern corner of the group straddles Hwy. 642.

SURVEY INSTRUMENTS

A direct reading McPhar fluxgate instrument was used to measure the vertical field to an accuracy of 20 gammas.

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SURVEY INSTRUMENTS (Continued)

A Geonics EM-17 electromagnetic was employed for the horizontal loop survey. A frequency of 1,600 H_z and coil separations of 200 and 300 were used. The in-phase and quadrature components were measured to an accuracy of ±1% of the primary field.

PRESENTATION OF RESULTS

The accompanying maps, showing the results of the surveys, are at a scale of 1'' = 200 feet.

Magnet	•			Map	3
EM-17	Horizontal	Loop	300'	Мар	2
EM-17	Horizontal	Loop	200'	Mp	1

DISCUSSION OF RESULTS

Only one sub-surface conductor, Zone A was encountered by the ground survey and this appears to correlate with airborne anomaly \$3B, which shows a conductivity of 1 mho. Anomaly \$4E correlates quite well with the railway and powerline. Anomalies \$1D and \$2B should have been covered by the ground grid, but are not evident in the data.

ZONE A

Zone A appears on both the 200 foot and 300 foot data on 16 E.

ZONE A (Continued)

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There is a broad, weak response on 12E, with the 300 foot results, that suggests it may continue westward as a broader, weaker conductor.

.. 3 ..

The 300 foot data is distorted on the south side and appears to give an erroneous position for the conductor axis. The two sets of data indicate the conductor is narrow, located at a depth of 60 to 90 feet and probably dips to the south. There is some variation in the conductivity-width, the 300 foot shows 10 mhos and the 200 foot shows 5 mhos.

Zone A lies on the south flank of a 500 gamma magnetic high. Because of its moderate conductivity-width on its short strike length, Zone A has been assigned a second priority rating.

Other EM responses on the grid correlate closely with the railway and powerline.

SUMMARY AND RECOMMENDATIONS

Zone A is essentially a single line anomaly that appears to correlate with airborne anomaly 83B. Anomaly 84E probably represents the railway while 81D and 82E are not evident in the ground data.

Zone A is a short conductor with a conductivity of 10 mhos, and a small flanking magnetic feature. It is a second priority conductor and the following hole has been spotted to test it: - collar at 2.5, 16E, drill N - 50° for a length of 400'.

Respectfully submitted,

Don B. Sutherland, Consulting Geophysicist.

February, 1977.





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REPORT ON THE

ELECTROMAGNETIC & MAGNETIC SURVEY

GROUP H

RECEIVED APR - 8 1977 PROJECTS UNIT

ENGLISH RIVER PROJECT

FOR

MATTAGAMI LAKE MINES LIMITED

INDEX



INDEX MAP: SCALE: 1" = 1320'

APPENDIX

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POCKET I

EM-17 Horizontal Loop 300 and 400' Scale: 1" = 200'

POCKET II

Magnetics Scale: 1" = 200'

POCKET III

Proposed Diamond Drill Hole Sections Zone A, 12W .. 1 ..

INTRODUCTION

Group H consists of 4 claims and was staked to cover 3 airborne anomalies 68L, 68M and 69F. These lie to the north of a throughgoing structure represented by 67E and 69G. A grid of N-S lines, spaced at 400 foot intervals, was cut to cover the anomalies. An electromagnetic and magnetic survey was carried out over the entire 4.5 line mile grid.

The surveying was carried out by the crews of Mattagami Lake Mines Limited on November 15 and 16, 1976 and also on February 2, 1977.

GEOLOGY

Regionally the area falls within the Watcomb metavolcanics which are part of the Wabigoon volcanic subprovince. Horwood (1938) describes the survey area as being underlain by mafic to intermediate metavolcanic and pyroclastic rocks. Felsic metavolcanics, however, are suspected as underlying the southern half of the claim group.

LOCATION AND ACCESS

Group H is located just south of Hwy. 642 on the Tataseebie River about 15 miles east of Sioux Lookout. Access is by canoe via the Tataseebie River or by a short walking trail just south of Hwy. 642.

SURVEY INSTRUMENTS

A direct reading McPhar fluxgate instrument was used to measure

SURVEY INSTRUMENTS

the vertical field to an accuracy of 20 gammas.

A Geonics EM-17 electromagnetic was employed for the horizontal loop survey. A frequency of 1,600 H_z and coil separations of 300 and 400 feet were used. The in-phase and quadrature components were measured to an accuracy of **±1%** of the primary field.

PRESENTATION OF RESULTS

The accompanying maps, showing the results of the surveys are at a scale of 1'' = 200 feet.

EM-17 Horizontal	Loop	300'	& 400'	Мар	1
Magnetics		·		Мар	2

DISCUSSION OF RESULTS

Two conductive zones, Zones A and B, have been interpreted from the ground data. Zone A corresponds to airborne anomaly 69F and the doublet 68L and 68M. Zone B correlates with a long formational conductor shown by the 67E and 69G responses on the claims.

Electromagnetic detailing with a 400 foot cable was carried out to investigate the moderate amplitude responses obtained in the initial ground survey with a 300 foot cable. ZONE A

The conductor has been traced across 5 lines, giving it a minimum length of 1,200 feet. It appears to lie on the south flank of a broad magnetic high with about 200 gammas relief.

.. 3 ..

There is considerable background response on the electromagnetic data that may be due to conductive overburden and may cause errors in determining anomaly characteristics, particularly width. Nevcrtheless, it seems assured that the source is wide.

The results with the 300 and 400 foot cable are different. On 12W, the 300 foot data shows a conductivity-width of 4 mhos for Zone A, a width of 70 feet and a depth of 60 feet. With the 400 foot cable, the width is difficult to determine, but it is probably 100 feet; the depth, 120 feet and the conductivity-width, 8 mhos. The conductivities compare well with the 6 to 7 mho values shown on the airborne data.

Zone A appears as a broad source of low to moderate conductivity and because of its width, its true conductivity may be quite low. Consequently, it has been given a second priority classification.

ZONE B

On 12W, the 300 foot cable shows a 60 foot depth, 1^o foot width and a conductivity-width of 10 mhos compared to a 180 foot depth, 100 foot width and a conductivity-width of 30 mhos for the 400 foot cable. The 300 foot data is thought to be the more reliable, but both sets show background response indicative of overburden.

ZONE B (CONTINUED)

Zone B is thought to be of minor importance since it represents a throughgoing formational feature.

SUMMARY AND RECOMMENDATIONS

Zones A and B Have been outlined by the ground survey in an area of moderate background response. Zone A correlates with airborne anomalies 68L, 68M and 6F which were the target of the staking. Zone B represents airborne anomalies 67E and 69G, part of a long formational structure.

Zone A displays modest conductivity and a width of 70 feet or more. Its true conductivity may be quite low and it is considered a second priority target.

Zone B is also a broad conductor that is part of a regional formational conductor and consequently of low economic importance.

Respectively submitted,

bou K Suthat

Don B. Sutherland, Consulting Geophysicist.

February, 1977.

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ANOMALY TABLE

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A 1	R		(GROU	IND			B D D	DIAMOND DRILL HOLES				
ONB	ot	ZONE	DEPTH	ot	W	ď	MAG.	K I T Y	LINE	STA	DIP	DIRECTION	LENGTH
68 M	6	A 300'	60	4	70		-	2	12 W	1.5 N	- 500	N. Along Traverse	400'
69 F	7	A 400'	120	8	70		-	2	12 W	-	-	-	-
67 E	12	В 300'	60	10	100		-	3	12 W	-	-	-	-
69 F	7	B 400'	180	300	100			3	12 W	-	-	-	•

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PROJECTS UNIT

If space insufficient, attach list

Type of Survey(s)	Ground Geophysics	F
Township or Arca	Smock Lake Area	MINING OF A IMP TO AVED SED
Claim Holder(s)	Mattagami Lake Mines Limited	List numerically
	<u> 1110 - 8 King Street East, Tor.</u>	
Survey Company	Mattagami Lake Mines Limited	Pa 394363
Author of Report	D. B. Sutherland	(prefix) (number) Pa 394364
Address of Author	<u>68_Cheltenham Avenue, Tor</u>	
Covering Dates of Survey	Oct. 18/76 to Feb. /77	Pa 394365
Total Miles of Line Cut	6, 0	Pa 394366
SPECIAL PROVISIONS	: DAYS	
CREDITS REQUESTED	Geophysical per claim	
	-Electromagnetic (40/)	
ENTER 40 days (includes	-Magnetometer 20	```
survey.	-Radiometric	
ENTER 20 days for each	-Other	
additional survey using	Geological	
same grid.	Geochemical	
AIRBORNE CREDITS (Spec	ial provision credits do not apply to airborne surveys)	
MagnetometerElecti	romagnetic Radiometric	
	(enter days per claim)	<u></u>
DATE Const 1/2	SIGNATURE	
	Author of Report or Agent	
Res Geol	Qualifications 63.1168	
Previous Surveys	2	
File No. Type D	ate Claim Holder	
	······	
	,	TOTAL CLAIMS 4

GEOPHYSICAL TECHNICAL DATA

<u>GROUND SURVEYS</u> - If more than one survey, specify data for each type of survey

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N	umber of Stations	290	Number of Readin	gs <u>Mag. 359, EM. 792</u>
S	tation interval	100'	Line spacing	400'
P	rofile scale	1" = 20%		
С	ontour interval	1000 gammas		
MAGNETIC	Instrument Accuracy – Scale co Diurnal correction m Base Station check-in	McPhar Fluxgate nstant 20 Gamm nethod graphic n interval (hours) 2	Magnetometer nas	1200 000000
	Base Station location	h and value $10+00$	S. Line 0400,	1300 Gammas
r si		Geonics EM - 1	ì,,	
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CNI	Coll configuration	200', 300'		
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EL	Trequency	In shoes and Out	(specify V.L.F. station)	
	Parameters measured	<u>In-phase and Qua</u>	larature	
	Instrument			
5	Scale constant			
VIIV	Corrections made			
GRA	Base station value an	nd location		
	Elevation accuracy_			
	Instrument			
Z	Method D Time I	Domain	🗀 Frequency	Domain
Ĕ	Parameters - On tin	ne	Frequency	·
K IZA	– Off tir	nc	Range	
	– Delay	time		
IO ISI	– Integra	ation time		
ED SI	Power			
	Electrode array			
	Electrode spacing	·		
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Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

120 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.

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File 2.2348

Type of Survey(s) Ground Geophysics	H PROIFOR
Township or ArcaSmock Lake Area	MINING CLAIMS TRAVERSED
Claim Holder(s) Mattagami Lake Mines Limited	List numerically
1110 - 8 King Street East, Toronto	_
Survey Company Mattagami Lake Mines Limited	Pa 394367
Author of Report D. B. Sutherland	(prefix) (number) - Pa 394368
Address of Author 68 Cheltenham Avenue, Toronto	
Covering Dates of Survey Nov. 15, 1976 to Feb. 1977	- Pa 394369
(lineculting to office)	Pa 394370
	-
SPECIAL PROVISIONS	
CREDITS REQUESTED Geophysical Per claim	
Geophysical (10)	
ENTER 40 days (includes	
line cutting) for first	
surveyRadiometric	
ENTER 20 days for eachOther	
same grid.	
Geochemical	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
MagnetometerElectromagnetic Radiometric	
11. Citas Contraction	
DATE: Cherry Content of Agent	-
Res. GeolQualifications 63.116X	-
Previous Surveys	
File No. Type Date Claim Holder	
	A
	TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

G	ROUND SURVEYS - If more than on	c survey, specify d	ata for cach type of survey	
N	umber of Stations 245		Number of Readings	Mag. 262, EM. 638
St	ation interval		Line spacing	400
Pr	ofile scale $1^{\prime\prime} = 20\%$	<u> </u>		
C	ontour interval 200 gammas	3		
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ប្អ	Instrument <u>McPhar Flu</u>	xgate Magneto	meter	······································
E .	Accuracy – Scale constant201	<u>yammas</u>	· · · · · · · · · · · · · · · · · · ·	
ğ	Diurnal correction methodGr	aphical		
M	Base Station check-in interval (hours).	2		
	Base Station location and value	Baseline at 64	00 W.	500 Gammas
		· .	,	
			 _	
2	Instrument	Jeonics EM -	.7	·····
	Coil configuration Ho	orizontal Loop		
AG	Coil separation 3	001 4001		
NO	Accuracy <u>± 1%</u>	of the primar	y field	
H H	Method: 🗍 Fixed tra	insmitter 🗌	Shoot back 🛛 🖾 In line	. 🗆 Parallel line
ГЩ	Frequency	1600 Hz.	WIF station)	
[11]	Parameters measured In.	-phase and qua	drature	
	Instrument			
	Scale constant		***************	
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	Type of Survey(s)	Gr	ound Geophysics		F	280150	IS BUD
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· · · · · · · · · · · · · · · · · · ·	Survey Company Author of Report Address of Author Covering Dates of Su Total Miles of Line C	111 Ma D, D, ContOC	0 - 8 King Street East, Tor ttagami Lake Mines Limited B. Sutherland Cheltenham Avenue, Tor. t. 18/76 to Feb. /77 (linecutling to office) 6.0	p	a394363 a394364 a394364 a394365 a394366	(num>er)	
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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. CEIVED

File 2.2348

APR - 6 1977

PROJECTS UNIT.

Type of Survey(s) <u>Ground Geophysics</u>	n
Township or Arca Smock Lake Area	MINING CLAIMS TRAVERSED
Claim Holder(s) Mattagami Lake Mines Limited	List numerically
1110 - 8 King Street Fast, Toronto	
Survey CompanyMattagami Lake Mines Limited	Pa 394367
Author of Report D. B. Sutherland	(prefix) (number)
Address of Author68 Cheltenham Avenue, Toronto	
Covering Dates of Survey Nov. 15, 1976 to Feb. 1977	P.a. 394369
Total Miles of Line Cut5	
SPECIAL PROVISIONS CREDITS REQUESTED DAYS per claim ENTER 40 days (includes line cutting) for first -Magnetometer20	MINISTRY OF NATURAL RESAMACES RECEIVED AUG-2:2.197; RESIDENT GEOCOGISTS OTTICE SIOUX LOOKOUT
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Lan**ds** Administration Branch Projects Unit Technical Assessment Work Credits F#0 2.2348

Recorded Holder Matt	tagami Lake Mines Limited
Township or Area	Smock Lake Area
Type of survey and number of Assessment days credit per claim	Mining Claime
Geophysical Electromagnetic 40 Magnetometer 20 days Radiometric days Induced polarization days Section 86 (18) days Geological days Geochemical days Man days Airborne Special provision 3	Pa. 394363 to 70 inclusive
Notice of Intent to be issued: Credits have been reduced because of partial coverage of claims. Gredits have been reduced because of corrections to work dates and figures of applicant. No credits have been allowed for the following mining claims as they were not sufficiently covered by the survey:	
•	••

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;



Your hie:

1977 08 17

Our file: 2.2348

24

Mr. Harry L. Bell Mining Recorder Ministry of Natural Resources Box 669 Court House Sioux Lookout, Ontario POV 2T0

Dear Sir:

Re: Mining Claims Pa. 394363 et al, Smock Lake Area File 2.2348

The Geophysical (Electromagnetic & Magnetometer) assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

J. R. McGinn, Director Lands Administration Branch Whitney Block, Room 1617 Queen's Park Toronto, Ontario M7A 1X1 Phone: 416-965-6918

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- cc: Mattagami Lake Mines Ltd. Toronto, Ontario <u>Attn: Mr. Ross Strong</u>
- cc: Resident Geologist Siour Nookout, Ontario
- cc: Mattagami Lake Mines Ltd. Toronto, Ontario Attn: Mr. J. D. Harvey



LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (x)



FOR ADDITIONAL INFORMATION SEE MAPS

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CULTUDE CONTRACTOR						
	MATTAGAMI LAKE MINES LTD. EXPLORATION DIVISION					
	MAGNETOMETER SURVEY					
	ENGLISH RIVER PROJECT GROUP F ONTARIO					
1000 8	DATE: DRAWN BY: SCALE: I'' = 200' TWP.: BLOCK No. 9 MAP No.:					





Out of Phase on right of line In Phase on left of line Coil spacing : 200 ft. Frequency : 1600 Hz. Scale : 1" = 20% -- E.M. Conductor

DRAWN BY

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SNED029 52G13NE0033 SMOCK LAKE



Out of Phase on right of line In Phase on left of line Coil spacing : 300 ft. Frequency : 1600 Hz. Scale : 1" = 20% E.M. Conductor

526/13 NE - 00 33 #3

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MAT	TAGAMI LAKE MINE	SLTD. N
E I ENG	M - I7 SURV LISH RIVER PRO GROUP F	EY JECT
	ONTARIO	
DATE: DRAWN BY:	SCALE : 1" = 200'	TWP.: BLOCK No. 9 MAP No.:



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20+00

28°00 W 24°00 W

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					3.0-360
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	600.	100			
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	- 3 70	1.0 400 390 Jer	54. 560	580 580	600
••	. 4 7 .	yro RI	; ™ 394367	550 55D	600
/.		460	670 620	\$20 520	580 580
		600	c 60D	5te 589	500
	1.	780	440		510
•	420	620			, 570
•	. 56.	SPO .	550 660	···· 680 600	56. 560
	300	500	··· 640	670 620	600
	540	560	5 500	31. 380	se. 560
	46.	460	10. 460	sa. 560	54. 540
-	46.	460	51. 520	490	5c. 560
			13.8.5. 5**	(190	
4	4 4 -		570 300		,
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	44.	440	5 500	480 Y80	. + c. 460
	45-	480	400 480	100 460	420 420
	500	500	548 94370	. ⁴⁴⁰ 440	440 440
	46.	460	570 520	560 560	49- 480
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	4 5 .	460	4 60 (80)	···· 480	54• 840
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4.0



52G/13 NE-0033 #4



DATE : SCALE : I'' = 200' TWP.: BENEDICKSON DRAWN BY : MAP No. :





