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GROUND GEOPHYSICAL SURVEYS TOWER LAKE PROPERTY (East) Magnetometer and VLF-EM Surveys

Mattawan Township

March 2000

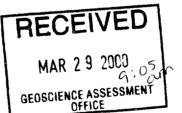


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Magnetometer contour map

VLF Profiles map - NAA Cutler, Maine

1.0 INTRODUCTION:

From March 19 to 26, 2000 a program of linecutting and geophysical surveys was carried out on the Tower Lake Property held by R.

LKomarechka of Suite 1, 38 Haig St., Sudbury,Ontario P3C 1E2.

The geophysical work was executed by David Laronde and reported on by David Laronde of Meegwich Consultants Inc. P.O. Box 482, Temagami, Ontario POH 2HO.

Linecutting: A total of 10.00 km of linecutting was done. 7.600 km was cut from a 2.400 km. long baseline running at an azimuth of 320 degrees. All 10 km of line were surveyed with total field magnetics and VLF electromagnetics. All the lines were cut by Denis Theberge and Reg Morin with chainsaw and are considered to be very good quality.

2.0 PROPERTY:

The 17 unit (340 hectare) property consists of a contiguous group of seven mining claims numbered situated in subdivided Mattawan Township. The claims are located in Lots 2,3,4,5,6 of Concessions IX,X,XI and are in the Sudbury Mining District.

The claims are numbered as follows:

Claim No.	No. of units	Due date
1237432	3 ,	March 3, 2002
1237433	4	March 3, 2002
1229912	2	April 6, 2000
1224151	1	April 6, 2000
41230156	3	April 6, 2000
1230129	1	April 6, 2000
1230149	3	April 6, 2000

3.0 LOCATION AND ACCESS:

The property is located 16 km northwest of the town of Mattawa,
Ontario which is 60 km east of the city of NorthBay along Hwy 17.

The claim group is accessed from a seasonal, high quality logging road which branches off. Hwy 533 some 13 km northwest of Mattawa. A secondary logging road heads north through the property off the main logging road. This secondary roads winds its way for 2 km. onto the property. A 4 wheel drive vehicle is recommended since the road can be rugged in places.

4.0 MAGNETOMETER SURVEY:

A total of 10.00 km was surveyed (800 readings) at 12.5 meter stations on lines spaced at 200 meters.

Magnetometer, Serial no. 58479 was used for the survey. A base station (Scintrex EDA Omni IV) was set up to monitor and correct for the diurnal variation during the course of the survey. These instruments are micro-processor based and measure the earth's total magnetic field to an accuracy of one-tenth of a gamma.

4.2 Survey Results: The results are presented in contour form at on plans at 1:5000 scale.

There were two massive highs detected that are both about 500 meters across. They are centered on L 1800 N at 450 E and on L 800 N at 150 E. The intensity of these two feature range up to 1000 nT above background.

For the most part the remainder of the grid is around background values with the exception of a disturbance in the extreme northwest corner of the grid.

5.0 VLF Electromagnetic Survey:

A total of 10.00 km was surveyed for a total of 400 readings taken at 25 meter stations on lines spaced at 100 meters.

- **5.1 Instrumentation:** A Geonics VLF-EM receiver was used for the survey. The VLF transmitter station was Cutler, Maine NAA transmitting at 24.0 kHz. The measured quantities are the inphase and quadrature components of the vertical magnetic field measured as a percentage of horizontal primary field (read to a resolution of +/- 1%). All readings were taken facing north.
- **5.2 Survey Results:** The results of the survey are presented in profile form on plans at 1:5000 scale.

In many cases weak VLF conductors are electrolytic (bedrock shears and fractures, overburden filled bedrock troughs and valleys) or poorly connected metallic grains such as stringer sulphides.

Generally speaking there are several weak conductors that may fall into the above category and have a possible non-metallic source. Nevertheless anomalies that warrant a field check for possible metallic sources are A,B,C and D.

A very weak (partial) response along the creek parallel to the baseline is noted.

6.0 CONCLUSIONS AND RECOMMENDATIONS:

The magnetometer survey has outlined two massive highs that likely represent mafic intrusive bodies (gabbro). The southern most feature is a little more intense indicating more magnetic mineral content than the northerly twin.

The VLF-EM anomalies encountered are weak for the most part. Due to the nature of the survey it is difficult to ascertain mineral or metallic source anomalies. Conductors A,B,C and D should be investigated further for metallic sources. A field visit and hand trenching could be done as follow-up work.

Other further work should consist of adding lines at 100 meter intervals for improved resolution of the magnetic features outlined.

References

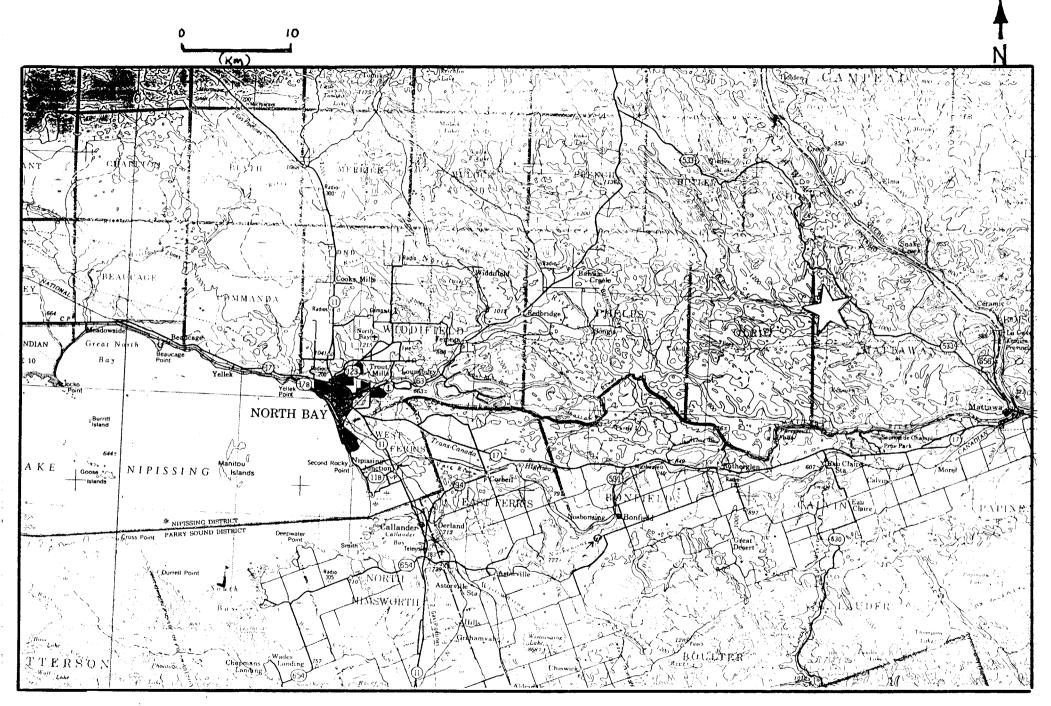
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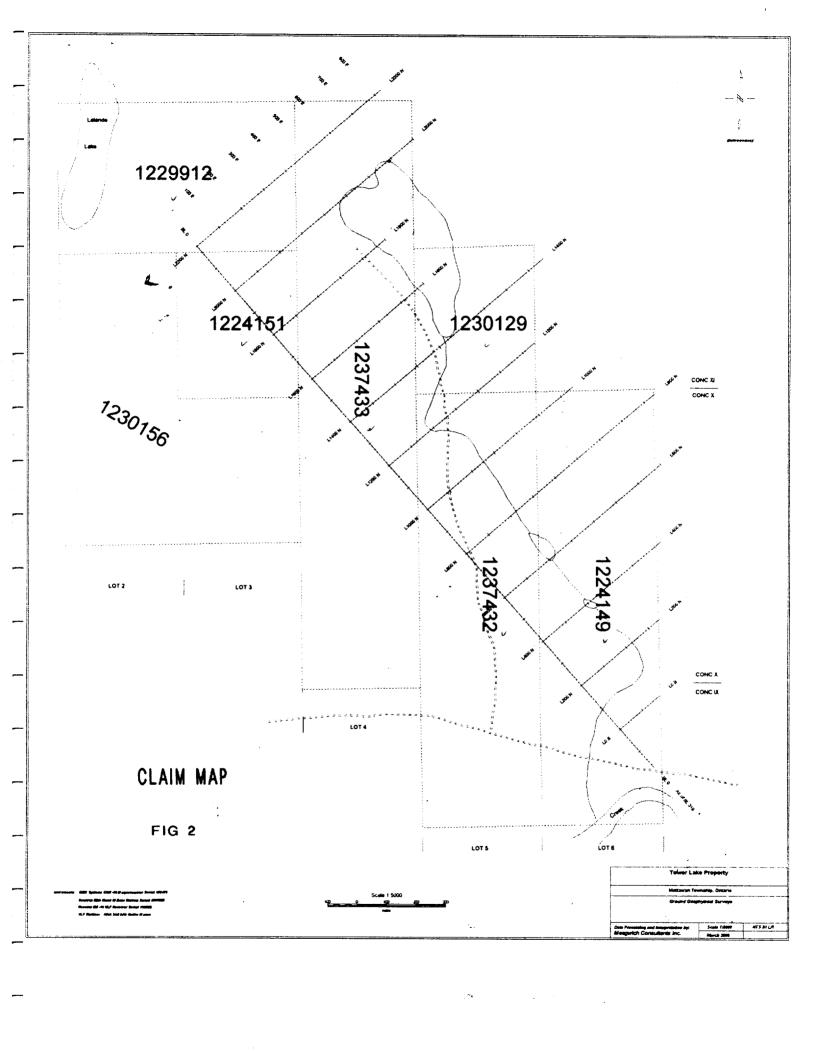
CERTIFICATE OF AUTHOR

- I, David Laronde of the town of Temagami, Ontario hereby certify:
 - That I am a geology engineering technologist and have been engaged the mineral exploration industry for the past 20 years.
 - 2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.
 - 3. That my knowledge of the property described herein was acquired by field work and documentation.

Dated at Temagami this 27th day of March 2000.

David Laronde





INSTRUMENT SPECIFICATIONS

MAGNETOMETER / GRADIOMETER

Resolution:

0.01 nT (gamma), magnetic field and gradient.

Accuracy:

0.2 nT over operating range.

Range:

20,000 to 120,000 nT.

Gradient Tolerance:

Over 10,000 nT/m

Operating interval:

3 seconds minimum, faster optional. Readings initiated from keyboard,

external trigger, or carriage return via RS-232-C.

Input/Output:

6 pin weatherproof connector, RS-232C, and (optional) analog output.

Power Requirements:

12 V, 200 mA peak (during polarization), 30 mA standby. 300mA peak

in gradiometer mode.

Power Source:

Internal 12 V, 2.6 Ah sealed lead-acid battery standard, others op-

tional. An External 12V power source can also be used.

Battery Charger:

Input: 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz.

Output: dual level charging.

Operating Ranges:

Temperature: -40 °C to +60 °C.

Battery Voltage: 10.0 V minimum to 15V maximum.

Humidity: up to 90% relative, non condensing.

Storage Temperature:

-50°C to +65°C

Display:

LCD: 240 x 64 pixels, or 8 x 30 characters. Built in heater for opera-

tion below -20°C

Dimensions:

Console: 223 x 69 x 240mm.

Sensor staff: 4 x 450mm sections.

Sensor: 170 x 71mm dia.

Weight: Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

VLF

Frequency Range:

15 - 30.0 kHz.

Parameters Measured:

Vertical In-phase and Out-of-phase components as percentage of total

field.

2 components of horizontal field. Absolute amplitude of total field.

Resolution:

0.1%.

Number of Stations:

⊍p to 3 at a time.

Storage:

Automatic with: time, coordinates, magnetic field/gradient, slope, EM field, frequency, in- and out-of-phase vertical, and both horizontal

components for each selected station.

Terrain Slope Range:

0° - 90° (entered manually).

Sensor Dimensions:

14 x 15 x 9 cm. (5.5 x 6 x 3 inches).

Sensor Weight:

1.0 kg (2.2 lb).

VLF-EM GEONICS

EM16 SPECIFICATIONS

MEASURED QUANTITY

Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt

angle and ellipticity).

SENSITIVITY

Inphase: ±150% Quad-phase: ± 40%

RESOLUTION

±1%

OUTPUT

Nulling by audio tone. Inphase indication from mechanical inclinometer and quadphase from a graduated dial.

OPERATING FREQUENCY

15-25 kHz (15-30 kHz optional) VLF Radio Band. Station selection done by means of plug-in units.

OPERATOR CONTROLS

ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.

POWER SUPPLY

6 disposable 'AA' cells.

DIMENSIONS

53 x 21.5 x 28 cm

WEIGHT

Instrument: 1.8 kg Shipping: 8.35 kg

CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°c. Warranty does not cover inclinometers damaged by such exposure.



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)

W0070.0004

Assessment Files Research Imaging

ubsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, sesment work and correspond with the mining land holder. Questions about this them Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury.

31L07NW2010

2.20235

MATTAWAN

900

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.

- Please type or print in ink.

1.	Recorded holder(s)	(Attach a list if necessary)
Name	1	

Name	ROBERT GERALD KOMARECHKA	Client Number 153168
Address	545 GRANITE ST.	Telephone Number (705) 673-0873
	SUBBURY ONTARIO P3C 2P4	Fax Number (705) 673-0873
łame		Client Number
ddress		Telephone Number
		Fax Number

2 . I	ype of work	performed: (Check (✓) and	d report on only	ONE of the follo	owing groups for t	this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)

Physical: drilling stripping, trenching and associated assays

Rehabilitation

355	ays and work	under sect	ion 18 (regs)	trenching and asso	ciated assays	
Work Type GEOTECHNICAL - LINECUTTING			1 - LINECI	MAK NIT	Office Use	
	0 00 70 0			11100 , 1240, VO-	Commodity	
				$\sqrt{}$	Total \$ Value of Work Claimed 5 8 5 5	
Dates Work Performed	From Dey	MARCU	2 <i>0</i> 06 To	26 MARCH 2000 Day Month Year	NTS Reference	
Global Positio	ning System Data ((if available)	Township/Area	MATTAWAN	Mining Division Sudfrury	
			M or G-Plan Numbe		Resident Geologist District	

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;

- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

Name	MEEGWICH INC	(DAUID LA	RUNDE)	Telephone Number (705) 569 - 2904
Address	PO. Box 482	TEMAGAMI	ONTARIO POH	Fax Number (705) 569 - 2817
Name				Telephone Number
Address				Fax Number
Name				Telephone Number
Address				Fax Number

4. Certification by Recorded Holder or Agent

I, ROBERT G. KOMARECHUA, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed of witnessed the same during or after its

completion and, to the best of my knowledge, the angested report is true.

Signature of Recorded Holder or Agent

Jelephone Number

Date MARCH 28/00

Agent's Address 545 G-RAM 7G

SUDBURY ONTAKIO P3CZP4

Telephone Number 705) 673-0873

Fax Number (705) 673-0877

0241 (03/97)

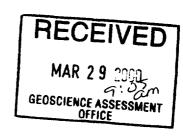
RECEIVED

MAR 2 9 2000

GEOSCIENCE ASSESSMENT

work v minin colum	g Claim Number. Or if was done on other eligible g land, show in this n the location number ated on the claim map.	WOOTO. Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date	
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eg	1234568	2	19 8.892 00	\$ 4,000	0	\$4,892	
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2	51224151	PK	469,00	400			
3	51279912	2	275.00	800			
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	/	o be cut back from	the Bank first, folk	owed by option 2 c	or 3 or 4 as indicated		
	2. Credits are to	o be cut back startir	ng with the claims	listed last, working	g backwards; or		
		to be cut back equa					
	U 4. Oredits are t	to be cut back as pr	ioritized on the att	ached appendix o	r as follows (describe	e):	
Note	If you have not indicated he followed by option number	ow your credits are r 2 if necessary.	to be deleted, cre	dits will be cut bac	ck from the Bank firs	t,	
	Office Use Only						
Receiv	ved Stamp		Deeme	ed Approved Date	Date Notific	ation Sent	
	•		Date A	pproved	Total Value	of Credit Approved	
0241 (0	197)		Approv	ved for Recording by N	l Mining Recorder (Signatur	e)	

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this





Statement of Costs for Assessment Credit

Transaction Number (other use) 10070.00064

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collected to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

Work Type	Units of work Depending on the type of work, list the number of hours/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
LINE CUTTING	lokin of GRIDYNE	245 /km	2,950.00
MAG/ULF	10 km	165/km	1,650.00
REPORT'S MAPS			600.00
GST ON ABOUT		371	369.00
SUPERVISON & CO-OPPINATION	I DAY	BK DAY	321 00
Associated Costs (e.g. supplie	s, mobilization and demobilization).		
	,		
Transpo	ortation Costs		
Food and	Lodging Costs		
	Total \	Value of Assessment Work	5.564.00 5.885.00
2. If work is filed after two years and	ormance is claimed at 100% of the above To up to five years after performance, it can only situation applies to your claims, use the calc	y be claimed at 50% of the To	rk. Otal
TOTAL VALUE OF ASSESSMENT W	ORK x 0.50	Total \$ value of	worked claimed.
Note: - Work older than 5 years is not elig - A recorded holder may be require verification and/or correction/clarification part of the assessment work submit	d to verify expenditures claimed in this stater ion. If verification and/or correction/clarificati	nent of costs within 45 days o on is not made, the Minis	f a request for ster may reject all
Certification verifying costs:			
I, ROBERT CERRED KOM. (please print full name) be determined and the costs were inc	full, do hereby certify, that the amounts structured while conducting assessment work on	hown are as accurate as may	reasonably companying
A	OLDED HOLDER led holder, agent, or state company position with signing authority		
0212 (03/97)	Signature	Proposite MA	* LRCH Z8/80

MAR 2 9 2000
GEOSCIENCE ASSESSMENT
OFFICE

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

May 5, 2000

ROBERT GERALD KOMARECHKA 545 GRANITE ST. SUDBURY, Ontario P3C-2P4



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9845 Fax: (877) 670-1555

Visit our website at:

www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.20235

Status

Subject: Transaction Number(s):

W0070.00064 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact LUCILLE JEROME by e-mail at lucille.jerome@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

ORIGINAL SIGNED BY

Steve B. Beneteau

Acting Supervisor, Geoscience Assessment Office

teren B. Beneteau

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.20235

Date Correspondence Sent: May 05, 2000

Assessor: LUCILLE JEROME

Transaction

First Claim

Number

Township(s) / Area(s)

Status

Approval Date

W0070.00064

1224149

MATTAWAN

Approval

May 05, 2000

Section:

Number

14 Geophysical MAG14 Geophysical VLF

Correspondence to:

Resident Geologist

Sudbury, ON

Assessment Files Library

Sudbury, ON

Recorded Holder(s) and/or Agent(s):

ROBERT GERALD KOMARECHKA

SUDBURY, Ontario

CIRCLED "

