

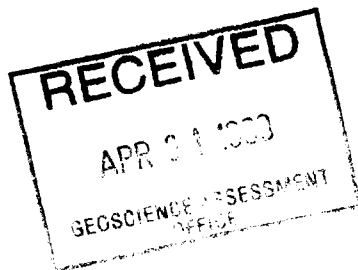


31M04SW2020 2.19318 STRATHY

010

**DETAILED MAGNETOMETER SURVEY  
Arsenic Lake Property  
Strathy Township  
David Laronde**

**December 1998.**



**2.19318**

31 M/4

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Magnetometer contour map



31M04SW2020 2.19318 STRATHY 010C

## **1.0 INTRODUCTION:**

On December 12 of 1998, a program of grid establishment and fill-in magnetometer surveying was carried out on the Arsenic Lake Property held by David Laronde P.O. Box 482, Temagami, Ontario POH 2H0. The purpose of the work was to further define the boundaries of interesting magnetic features by adding more detail to define structure.

The work was supervised, executed and reported on by David Laronde (Meegwich Inc.) of 407 Lakeshore Drive, P.O. Box 482, Temagami, Ontario POH 2H0. Robert Sanderson provided assistance to re-establish the ice grid.

## **2.0 PROPERTY DESCRIPTION:**

The property consists of two contiguous claims numbered 1165530 and 1118473 that cover the central part of Arsenic Lake located in central Strathy Tp. The property is about 22 hectares in size.

## **3.0 LOCATION AND ACCESS:**

The property is situated on Arsenic Lake, one mile north of the town of Temagami which is 100 km north of north of North Bay. The property is accessible by boat or snowmobile from Hwy 11.

#### **4.0 GEOLOGIC SETTING:**

The property is underlain primarily by mafic to intermediate metavolcanics which forms a pie shaped package of rocks bounded by the Net Lake Deformation Zone to the northeast and the Link Lake Deformation Zone to the south. A former gold producer, the Penrose Mine located about 600 meters to the east. Evidence of Late Precambrian diabase dike swarm is noted only 500 meters to the northeast of the claims.

#### **5.0 MAGNETOMETER SURVEY:**

A total of 0.725 km was surveyed on a grid with 12.5 meter stations picketed on lines spaced at 25 meters. Readings were taken at 12.5 meter intervals (60 readings).

**5.1 Instrumentation:** Gem Systems GSM-19 overhauser magnetometers ser. No. 58479, 67559 were used for the survey in the mobile mode and base station mode. These instruments are state of the art micro-processor based and measure the earth's total magnetic field to an accuracy of 1/100th of a gamma.

**5.2 Survey Results:** The results are presented on contoured plans at 1:2500 scale.

The detailed surveying outlined the magnetic features between lines. Of particular interest were the pinching in and out of the highs where prospective structure is thought to be.

The original picture hasn't changed much but the definition of the features are more precise.

### **6.0 Conclusions and Recommendations:**

The high in the northeast corner may be an ultramafic intrusive prospective for platinum and palladium. The pinching in of the magnetic high on L 175 W may be indicative of a north-south trending shear or fault. Similarly on L 300 and 325 W a structure may be interpreted.

An EM survey is warranted to cover the prospective north-south structure. The lines would have to be run in an east-west direction however. HLEM is recommended rather than VLF-EM since the only VLF transmitting station (Cutler, Maine) is at a poor coupling angle.

**References**

1972 Ontario Division of Mines Map P.786 Geological Series  
Geology of Hudson Twp.

## CERTIFICATE OF AUTHOR

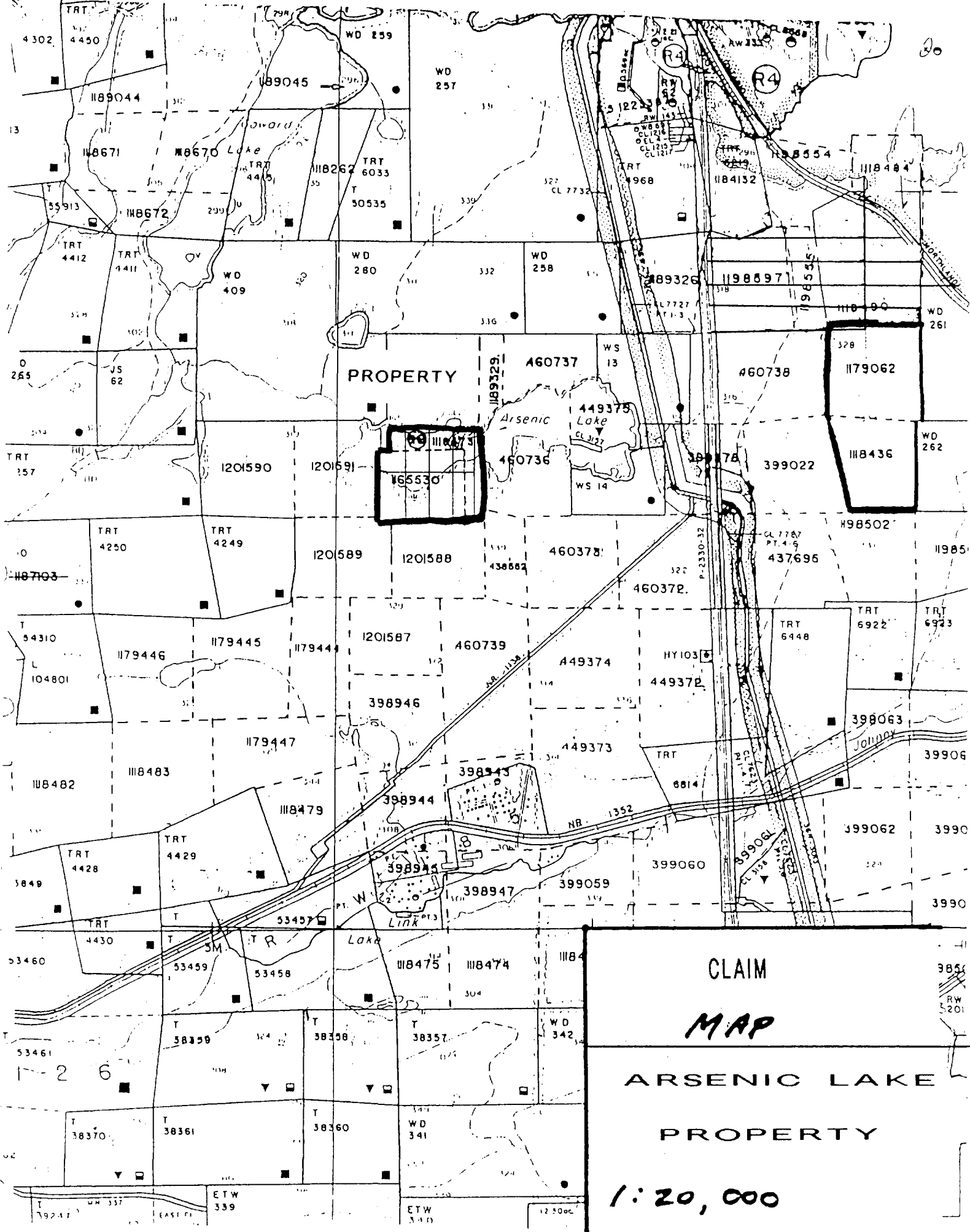
I, David Laronde of the town of Temagami, Ontario hereby certify:

1. That I am a consulting technologist and have been engaged in mineral exploration for the past 19 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 19th day of January 1999.



David Laronde



PROPERTY

165630

Arsenic Lake

CLAIM  
MAP

ARSENIC LAKE

PROPERTY

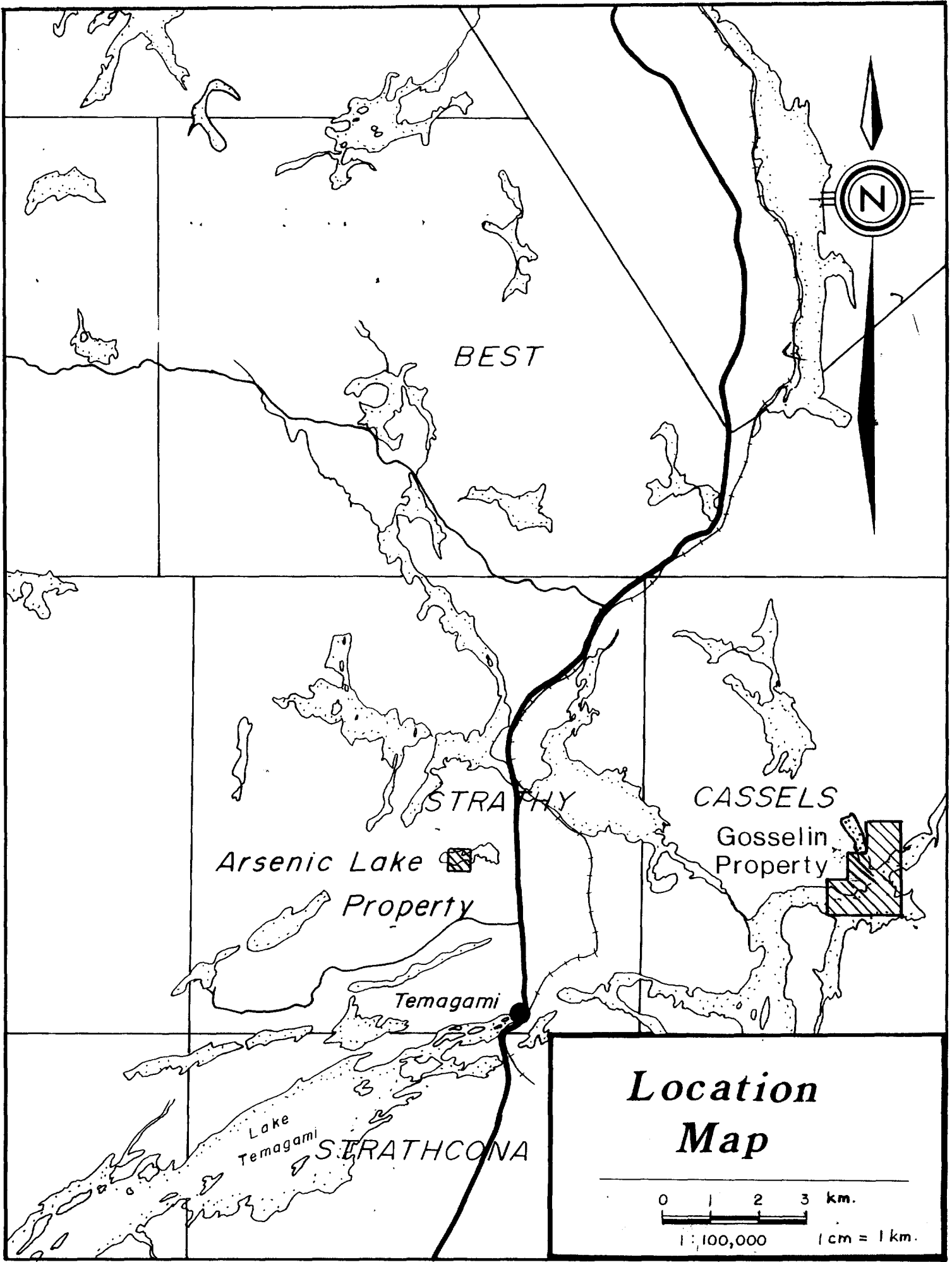
1:20,000

ETW  
339

ETW  
340

12 500c





BEST

STRATHY

CASSELS

Arsenic Lake Property

Gosselin Property

Temagami

Lake Temagami STRATHCONA

# Location Map

0 1 2 3 km.  
1:100,000 1 cm = 1 km.

# GEM SYSTEM GSM-19 WALKING MAG

## INSTRUMENT SPECIFICATIONS

### MAGNETOMETER / GRADIOMETER

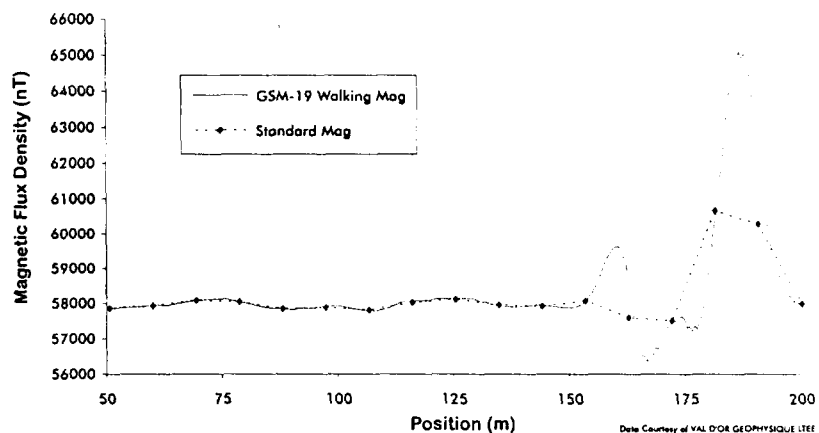
Resolution:	0.01 nT (gamma), magnetic field and gradient.
Accuracy:	0.2 nT over operating range.
Range:	20,000 to 120,000 nT.
Gradient Tolerance:	Over 10,000 nT/m
Operating interval:	3 seconds minimum, faster optional. Readings initiated from keyboard, external trigger, or carriage return via RS-232-C.
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 optional. An External 12V power source can also be used.
Battery Charger:	<b>Input:</b> 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz. <b>Output:</b> 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 operation below -20°C
Dimensions:	<b>Console:</b> 223 x 69 x 240mm. <b>Sensor staff:</b> 4 x 450mm sections. <b>Sensor:</b> 170 x 71mm dia. <b>Weight:</b> Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

### “Walking” Magnetometer / Gradiometer

GEM Systems pioneered the GSM-19's innovative “Walking” option that enables acquisition of nearly continuous data on survey lines. Similar to an airborne survey in principle, data is recorded at discrete time intervals (up to 2 readings per second) as the instrument travels along the line. At each major survey picker (fiducial), the operator touches a designated key. The Walking Mag automatically assigns a linearly interpolated coordinate to all intervening readings.

A main benefit of the Walking option is that the high sample density improves definition of geologic structures. And because the operator can record data on a near-continuous basis, the Walking Mag increases survey efficiency and minimizes field expenditures -- especially for highly detailed ground-based surveys.

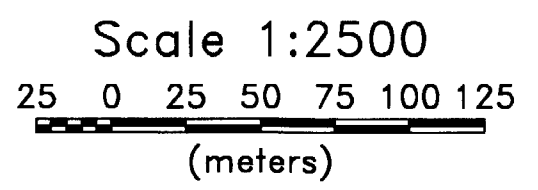
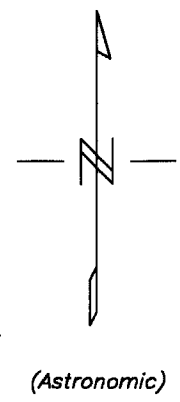
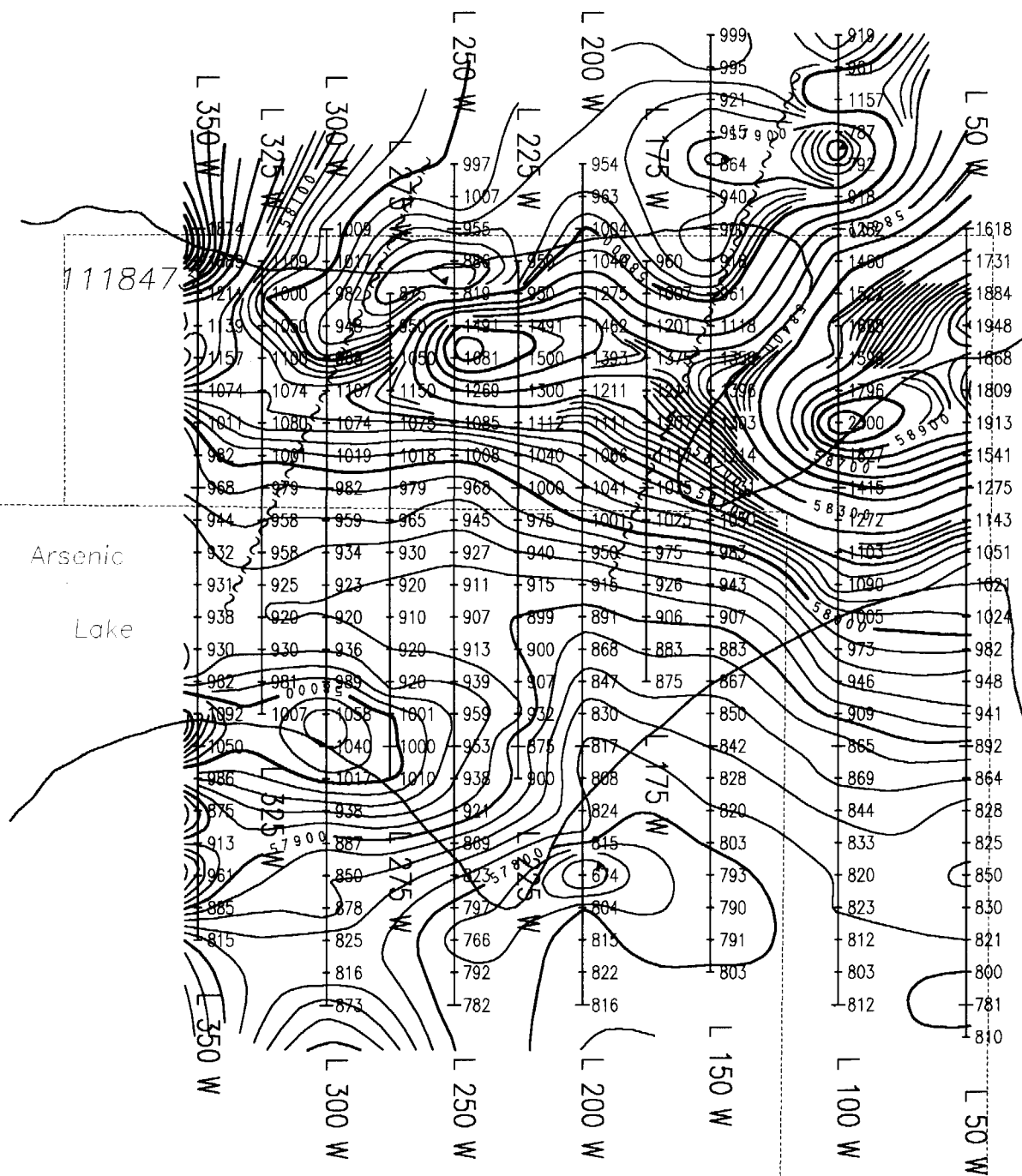
### Near-Continuous Surveys Improve Definition of Magnetic Anomalies



As shown above, near-continuous measurements increase definition. Results from a GSM-19 “Walking Mag” (273 readings over 150 m with 2 sec. cycle time) were compared with results from a standard magnetometer (13 readings over 150m).

N001  
0  
S001  
S002  
S003

57000 subtracted  
from all readings



1165530

Instruments: GEM Systems GSM-19 Magnetometer Serial #58479

Arsenic Lake Property		
Strathy Township, Ontario		
Ground Geophysical Surveys		
Total Field Magnetics Contours		
Data processing and interpretation by:	Scale 1:2500	NTS 31 M/4
Meegwich Consultants Inc.	January 1999	Survey by: D. Laronde



Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use) W9970 COOP Assessment Files Research Imaging



31M04SW2020 2.19318 STRATHY 900

Ministry of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Act, you are required to review the assessment work and correspond with the mining land holder. Mining Recorder, Ministry of Northern Development and Mines, 6th Floor,

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: David Dennis Laronde, Client Number: 157346, Address: P.O. Box 482, Temagami, Ontario POH 2H0, Telephone Number: (705) 569-2904, Fax Number: (705) 569-2817

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) [checked] Physical: drilling, stripping, trenching and associated assays [unchecked] Rehabilitation [unchecked]

Work Type: DETAILED MAG SURVEY GRID ESTABLISHMENT, Office Use, Commodity, Total \$ Value of Work Claimed: \$580, Dates Work Performed: 12/12/98 to 12/12/98, NTS Reference: 31 m/4, Mining Division: SUDBURY, Township/Area: STRATHY, M or G-Plan Number: G-3451

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.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Meegwich Consultants Inc., Telephone Number: (705) 569-2904, Address: P.O. Box 482, Temagami, Ontario POH 2H0, Fax Number: (705) 569-2817. Includes RECEIVED and RECORDED stamps dated APR 01 1999.

4. Certification by Recorded Holder or Agent

I, David Dennis Laronde, 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 or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: [Signature], Date: Mar 29, 1999, Agent's Address: 219318, Telephone Number: [blank], Fax Number: [blank]

Deemed on 2... 30/99

W9970.0009  
"Amended"

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 lpx must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claims 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.
eg TB 7827	16 ha	\$26,828	N/A	\$24,000	\$2,828
eg 1234567	18	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 1165530	1	\$290 <sup>00</sup>	\$416 <sup>00</sup>	0	164 <sup>00</sup>
2 1118473	1	290 <sup>00</sup>	0	290 <sup>00</sup>	0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		580 <sup>00</sup>	416 <sup>00</sup>		

I, DAVID O. LARONIE do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 696 for assignment to contiguous claims or for application to the claim where the work was done

Signature of Authorized Person or Agent Authorized to Witness: [Signature] Date: APR 29, 1999

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

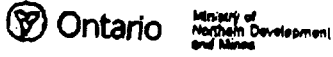
Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

\* TOTAL PAGE 02 \*

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		



Statement of Costs for Assessment Credit

Transaction Number (Office Use) W0970 00091

Personal information collected on this form is obtained under the authority of subsection 5(1) of the Assessment Work Regulation 608. Under section 5 of the Mining Act, the 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 information should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Hurontario Lane Road, Sudbury, Ontario, P0E 0B0.

Table with 4 columns: Work Type, Units of Work, Cost Per Unit of work, Total Cost. Rows include GRIA ESTABLISHMENT, DETAILED MAGNETIC SURVEY, COMPUTER MAPPING REPORT, MAGNETOMETER RENTAL, and Associated Costs (e.g. supplies, mobilization and demobilization). Total Value of Assessment Work is \$580.00.

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Notes:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification.

Certification verifying costs:

I, DAVID LARONOE, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as I am authorized to make this certification.

Signature: [Signature] Date: Apr 20 / 1999

2.19318

\*\* TOTAL PAGE 01 \*\*

Certification verifying costs:

I, DAVID LARONOE, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as I am authorized to make this certification.

Signature: [Signature] Date: Apr 29 / 1999

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

Telephone: (888) 415-9846  
Fax: (877) 670-1555

April 15, 1999

DAVID DENNIS LARONDE  
P.O. BOX 482  
407 LAKESHORE  
TEMAGAMI, Ontario  
P0H-2H0

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.19318

**Status**

**Subject: Transaction Number(s):** W9970.00091 Deemed 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 Steve Beneteau by e-mail at [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@ndm.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

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**Submission Number:** 2.19318

**Date Correspondence Sent:** April 15, 1999

**Assessor:** Steve Beneteau

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9970.00091	1165530	STRATHY	Deemed Approval	April 09, 1999

**Section:**

14 Geophysical MAG

**Correspondence to:**

Resident Geologist  
Sudbury, ON

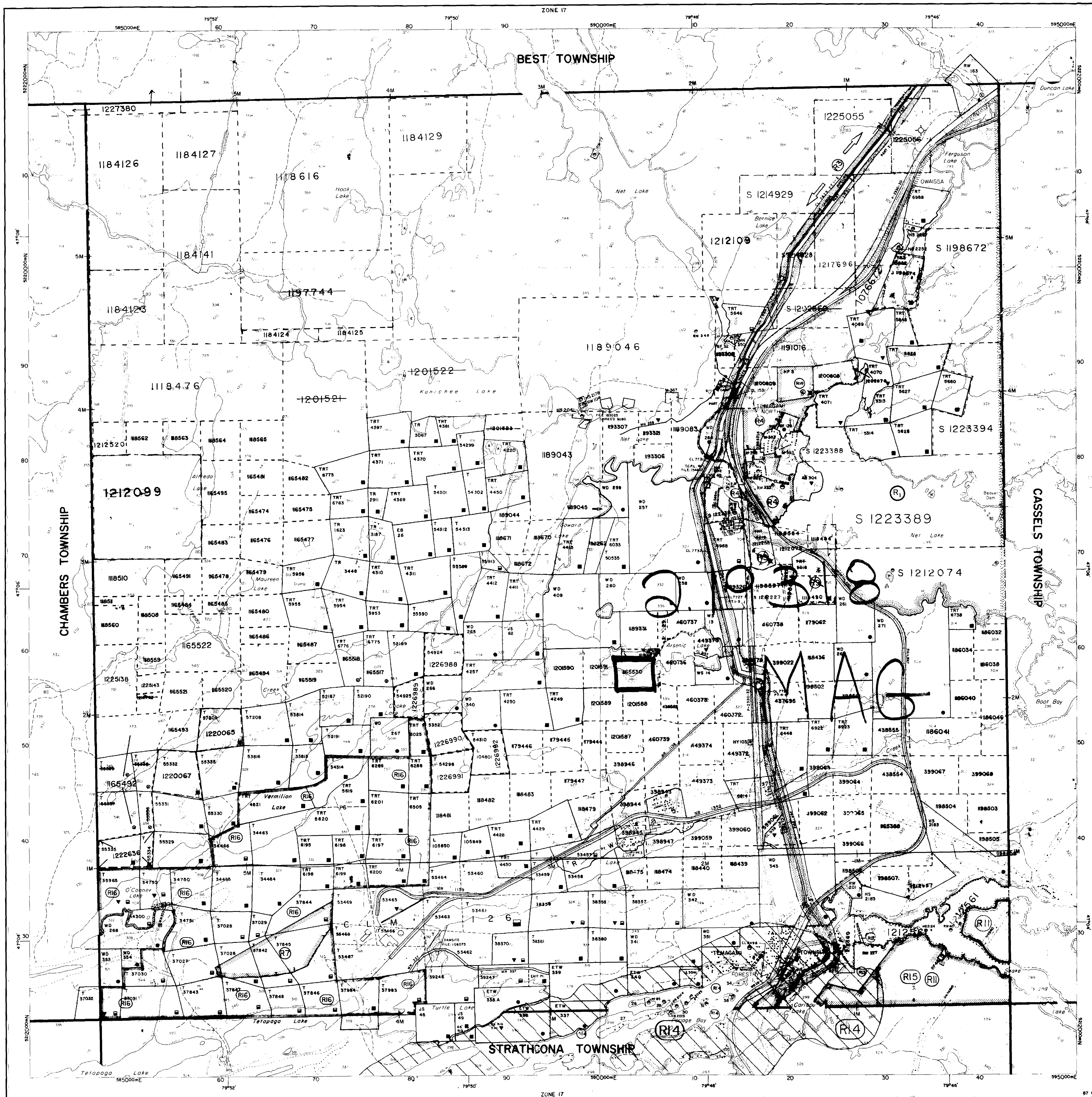
**Recorded Holder(s) and/or Agent(s):**

DAVID DENNIS LARONDE  
TEMAGAMI, Ontario

Assessment Files Library  
Sudbury, ON

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PUT INTO SERVICE MARCH 23 1994

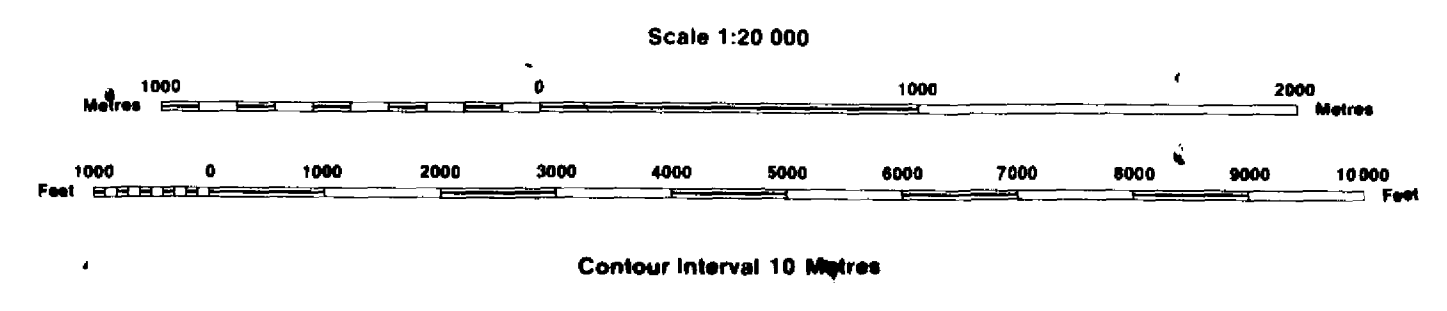
**INDEX TO LAND DISPOSITION**

PLAN  
**G-3451**  
 TOWNSHIP

**STRATHY**

M.N.R. ADMINISTRATIVE DISTRICT  
**TEMAGAMI**  
 MINING DIVISION  
**SUDBURY**  
 LAND TITLES/REGISTRY DIVISION  
**NIPISSING**

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



**SYMBOLS**

Boundary	.....
Township, Meridian, Baseline	.....
Road allowance; surveyed shoreline	.....
Lot/Concession; surveyed unsurveyed	.....
Parcel; surveyed unsurveyed	.....
Right-of-way; road railway utility	.....
Reservation	.....
Cliff, Pit, Pile	.....
Contour	.....
Interpolated	.....
Approximate	.....
Depression	.....
Control point (horizontal)	.....
Flooded land	.....
Mine head frame	.....
Pipeline (above ground)	.....
Railway; single track double track abandoned	.....
Road; highway, county, township access trail, bush	.....
Shoreline (original)	.....
Transmission line	.....
Wooded area	.....
Land Use Permit	.....

**AREAS WITHDRAWN FROM DISPOSITION**

Description	Order No.	Date	Disposition	File
SR	3610/R.S.O.1990	02/22/94	SR	3996
SR	3610/R.S.O.1990	02/22/94	SR	3996
SR	W-01/R/O/E	SEP.20/98	S.R.O.	LAND ROLL
SR	SEC.35/90	W-5-02/R/NER	M & S	9860
SR	SEC.35/90	O-5-18/95	AUG.11/98	M & S 195150
SR	SEC.35/90	O-5-31/94	AUG.1/94	M & S 195150
SR	SEC.35/90	W-5-32/95	JUNE 1/95	M & S 195150
SR	SEC.35/90	W-5-37/94	09/11/94	M & S 195150
SR	SEC.35/90	W-5-60/96	09/13/96	M & S 195150
SR	SEC.35/90	W-5-55/98	NOV.27/98	M & S 195150

**DATE OF ISSUE**  
 APR 21 1999  
 PROVINCIAL RECORDING OFFICE - SUDBURY

**DISPOSITION OF CROWN LANDS**

Patent	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Lease	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Licence of Occupation	.....
Order-in-Council	.....
Cancelled	.....
Reservation	.....
Sand & Gravel	.....

PLEASE NOTE: THE ISLAND ON LAKE TEMAGAMI ARE WITHDRAWN AND WILL NOT BE OPEN TO PROSPECTING AND STAKING OUT

**NOTES**

ISLAND 27 BELONGS WITH STRATHCONA TWP. ISLANDS IN LAKE TEMAGAMI NOT OPEN FOR STAKING

**SKYLINE RESERVE**  
 (R14)  
 NOTICE

**NOTICE**

WORK PERMITS FOR MINERAL EXPLORATION ACTIVITY EFFECTIVE September 15<sup>th</sup> 1998

The area shown as SKYLINE RESERVE and the land covered by the waters of LAKE TEMAGAMI on this map will be subject to Ontario Regulation 349/98 made under the Public Lands Act. Depending on the type and timing of your exploration work you may require a Work Permit. For further information please contact Gerhard Meyer, Regional Resident Geologist at (705) 567-5242 or Jim Ireland, Regional Manager at (705) 235-1612.

Pursuant to Section 35 of the Mining Act, R.S.O. 1990, the MINING AND SURFACE RIGHTS of the area shown as SKYLINE RESERVE and the land covered by the waters of LAKE TEMAGAMI as indicated on this map will be RE-OPENED TO PROSPECTING AND STAKING OUT. This Order comes into effect on October 27, 1998 at 9:00 a.m. Eastern Standard Time, which is equivalent to 9:00 a.m. local time. These lands will be subject to Ontario Regulation 256/98 made under the Mining Act. ALL CLAIM STAKING ACTIVITY IN THIS AREA is subject to this new regulation. MAJOR AMENDMENTS TO NORMAL STAKING PRACTICES HAVE BEEN IMPLEMENTED FOR THIS AREA. Consult and understand these amendments prior to carrying out any staking in this designated area. For further information please contact the Provincial Recorders Office at 1-888-415-0944.

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources. The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

