



31M04SE9750 2.15314 CASSELS

010

# GOSSELIN LAKE PROPERTY

Magnetometer Survey

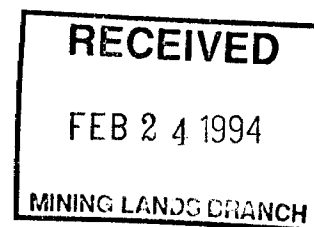
Cassels Twp.

December 1992

**2. 153 14**

by: David Laronde

*Deal. #  
2. 8343*





31M04SE9750 2.15314 CASSELS

010C

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## 1.0 INTRODUCTION

In December of 1992, a program of linecutting and magnetometer surveying was carried out on the Gosselin Lake Property held by D. Laronde, P. O. Box 482, Temagami, Ontario POH 2H0. D. Laronde also supervised the work and authored this report. A 17.3 km grid was established and 16.0 km of detail magnetics was done. The work was carried out from December 8 to December 23, 1992. by. McEgwich Inc Box 482 Temagami, Ont POH 2H0

## 2.0 PROPERTY

The survey was carried out over a group of 7 contiguous claims in Cassels Twp. numbered: 1185965, 1185966, 1185967, 1185968, 1185969, 1185970 (one unit claims) and 1185971 which is an 8 - unit claim. In total there is 14 units. Two claims were added subsequent to the survey: 1118463, 1118464 ( one unit claims) making the property 16 units or 256 hectares in size.

## 3.0 LOCATION AND ACCESS

The property is situated 8 km east-northeast from the town of Temagami. The claims are near the centre of Cassels Twp. Road access can be had to within 3 km at which point a boat or snowmobile is necessary.

## 4.0 SUMMARY OF PAST EXPLORATION AND DEVELOPMENT

The property has been trenched, drilled and mine workings put down in the old fashioned style. There is about a dozen diamond drill holes on the claim group.

Showings were blasted and trenched and sampled. Some encouraging assays were found in the trenching and drilling. Most of the work was done along the west shore of Gosselin Lake. Metals found on the property are Cu, Co, Au.

## 5.0 MAGNETOMETER SURVEY

A total of 16.0 km was surveyed at 12.5 meter stations on lines spaced at 100 meters. The baseline runs due north.

EDA Omni IV magnetometers were used for the survey. A base station was set up in the town of Temagami reading the diurnal at 20 second intervals to compensate for drift during the course of the day. These magnetometers are capable of one-tenth of a gamma resolution while sampling the earth's total magnetic field. 1296 readings were taken at 12.5 meter intervals during the course of the survey.

**SURVEY RESULTS** The survey results are presented on a geophysical plan at a scale of 1:2500. The map is contoured at 100 gammas. 57,000 is subtracted from the readings on the plan map. The most prominent feature revealed by the survey is a 200 meter wide high crossing the property in a east-west direction. Within the linear high are 2 highs of 300 and 1000 gammas. Locations of these highs are BL-0 at 400 N and L 5 N at 212 W respectively. A low trending east-northeast can be seen between L 5 N at 0 and L 11 N at 425 E. Another high can be partially seen on Gosselin Lake on L 13 N at 025 E. A difference in background values is noted between L 5 N at 350 E and L 12 N at 750 E. The same feature is indicated in the north-western corner of the claims from L 8 N at 075 E to L 13 N at 300 E.

## 6.0 CONCLUSIONS & RECOMMENDATIONS

The linear high in the southern half of the grid is likely a diabase dike (referring to the shape and intensity of this response). This feature is not apparent on the aeromagnetic survey done in 1960 by the GSC. The low from L 5 N at 0 to L 11 N at 425 E may be due to faulting and/or shearing. The difference in background could be the contact between the Gowganda Formation and the Coleman Member of the Lorrain Formation.

Further work should consist of geologic mapping and prospecting in and around the contact between the Nipissing diabase and the Coleman member. Rich mineralization is known to occur in this area, particularly on the east shore of Gosselin Lake. An Electromagnetic survey is recommended since copper mineralization is abundant and associated with deposits found in the area in years gone by.

A comprehensive program of trenching and sampling should be considered as a cost-effective method of finding ore-grade material before drilling as well.

Respectfully submitted,



David Laronde  
Geology Engineering Technologist  
December 1992.

CERTIFICATE

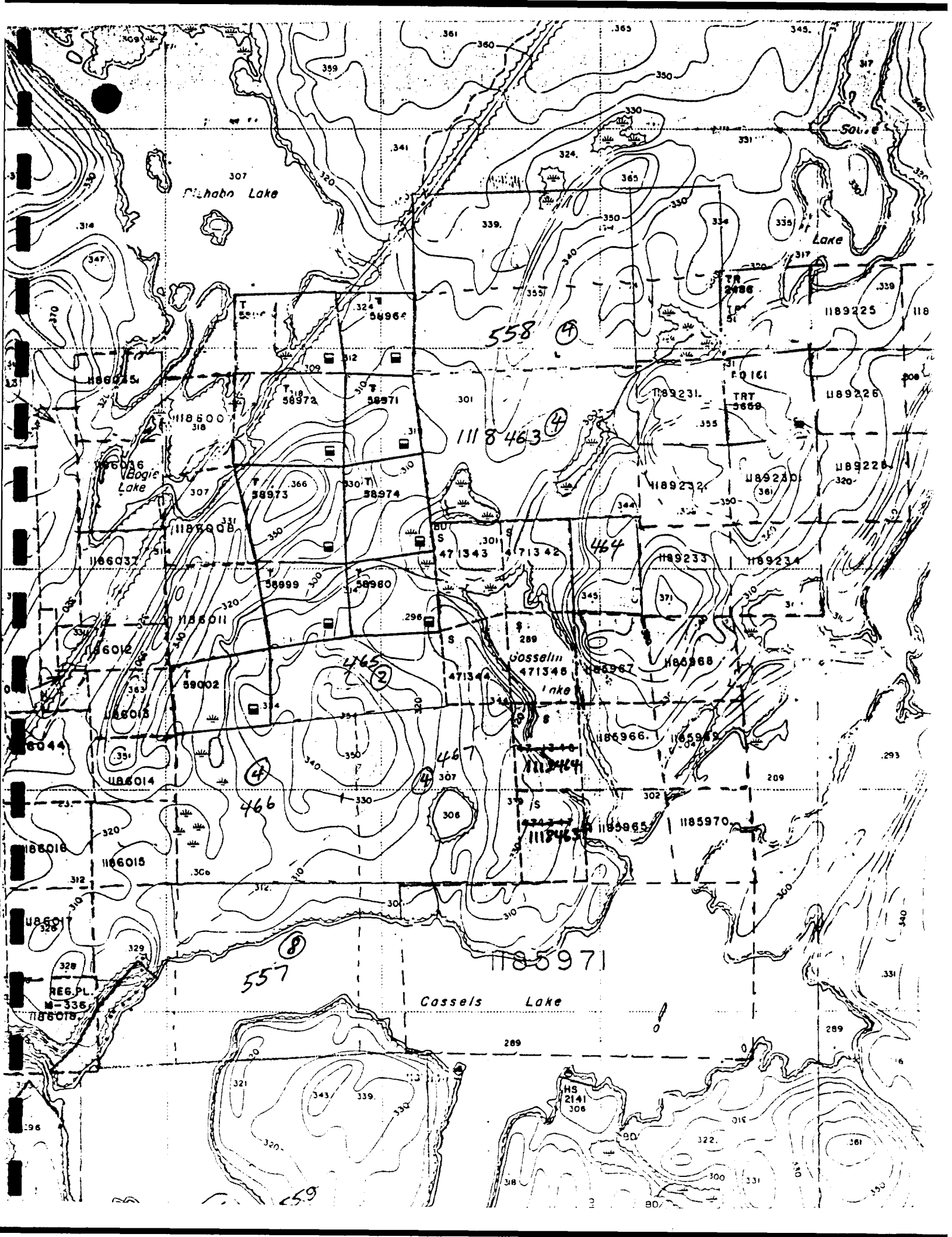
I, David Laronde, of the town of Temagami, Ontario hereby certify:

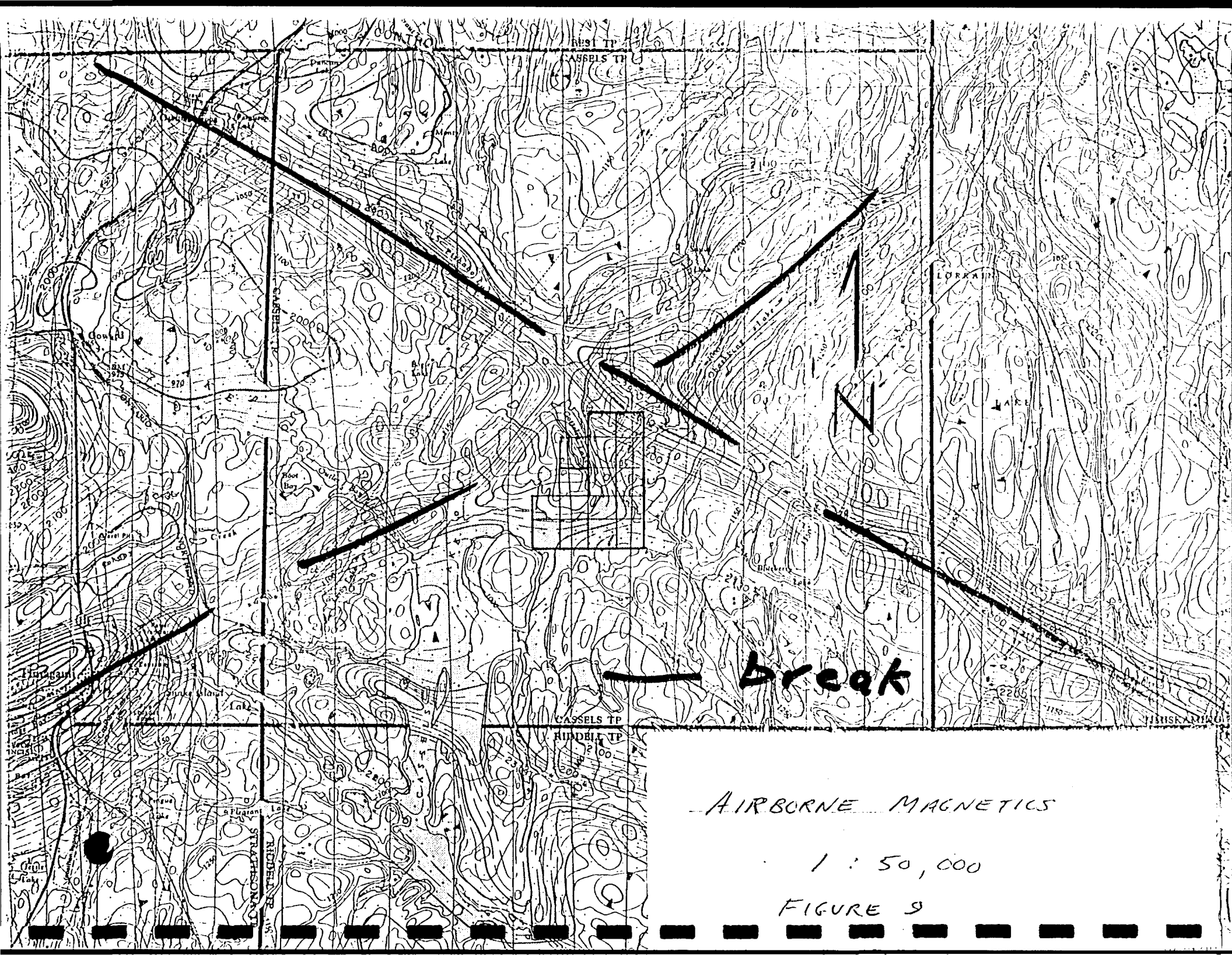
1. That I am a consulting technologist and have been engaged in my profession for 13 years.
2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.
3. That my knowledge of the property described was acquired by field visits and government publications.

Dated at Temagami, Ontario this 23rd day of December 1992.



David Laronde



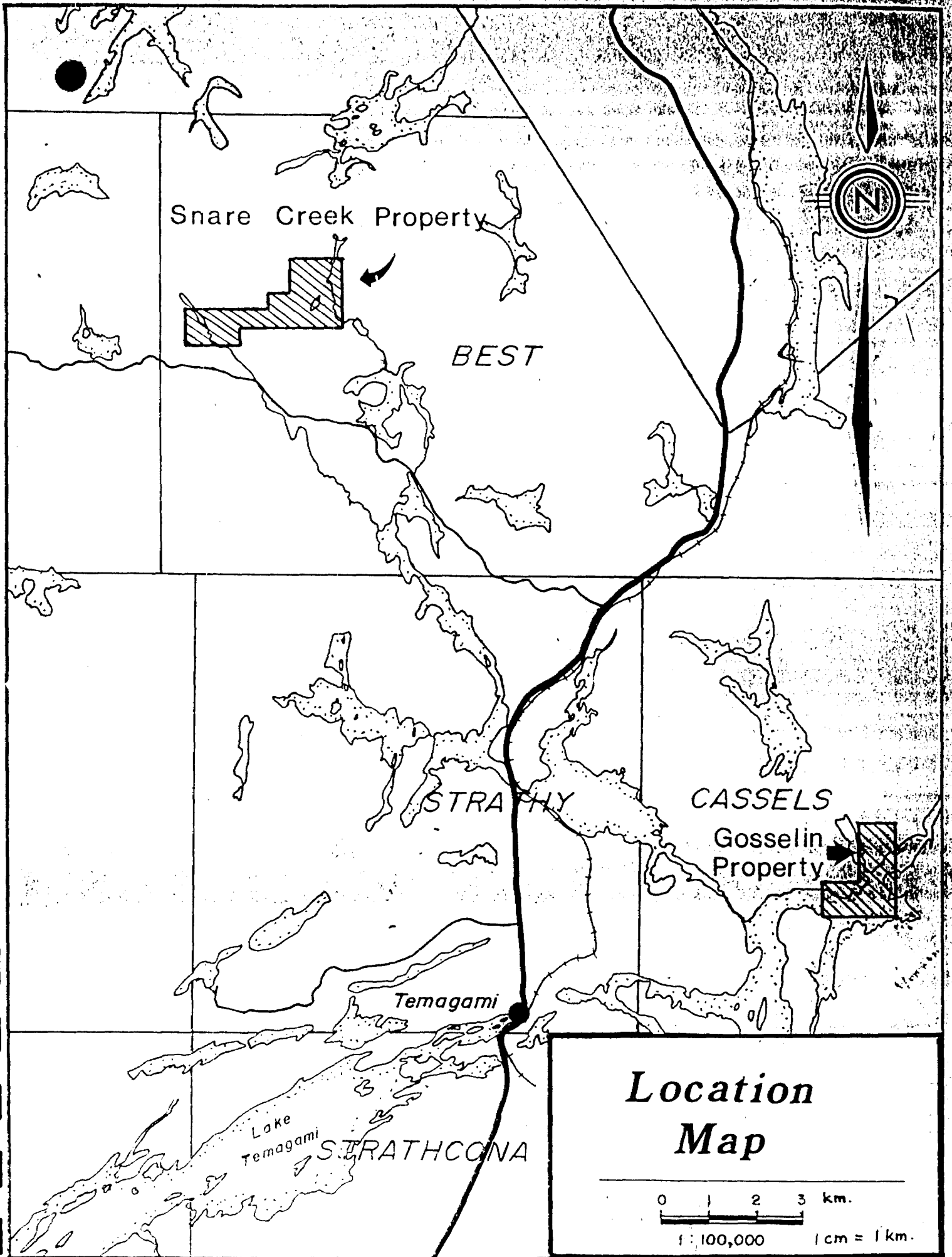


AIRBORNE MAGNETICS

1 : 50,000

FIGURE 9





Snare Creek Property

BEST

STRATHLY

CASSELS

Gosselin Property

Temagami

Lake Temagami

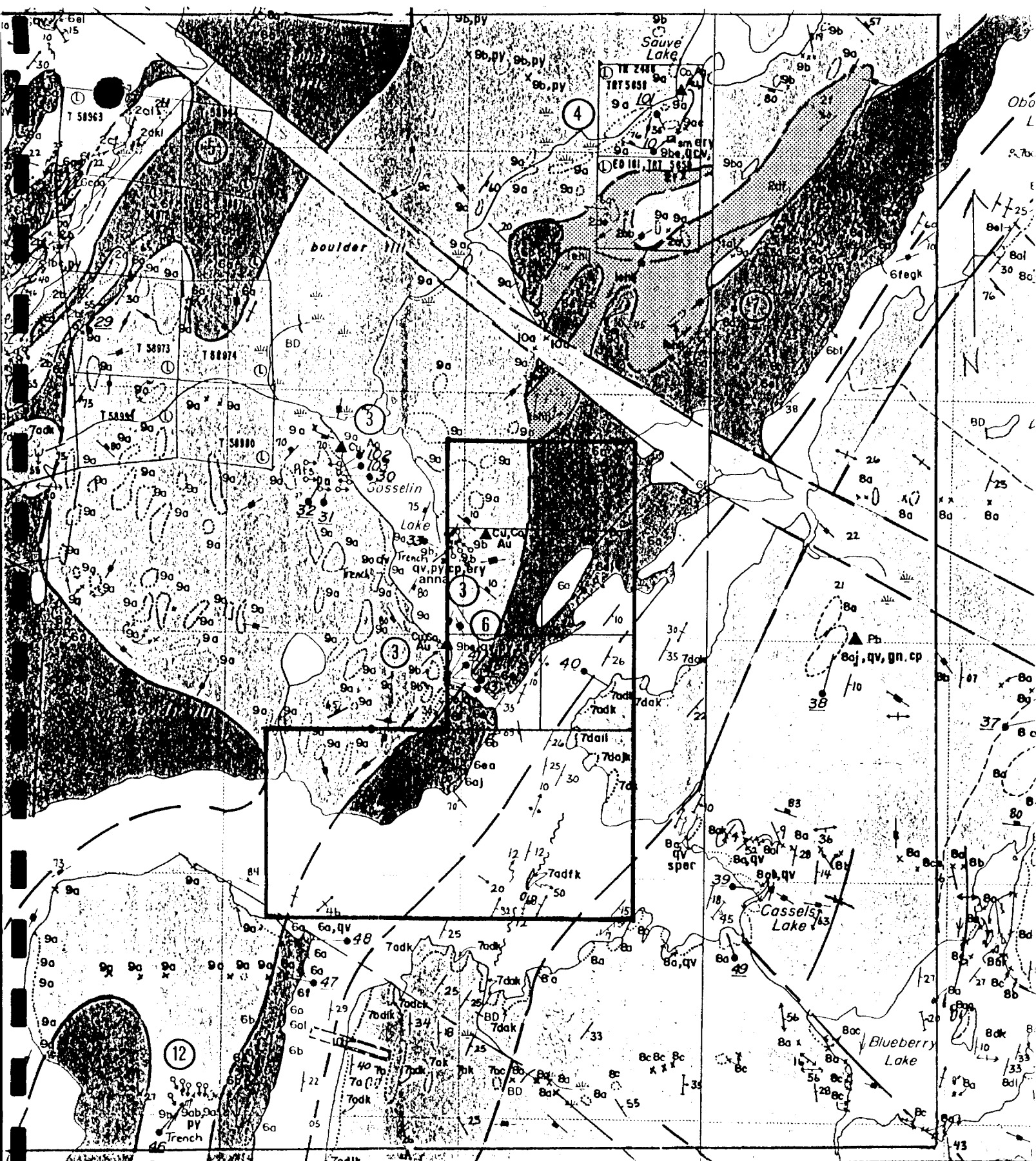
STRATHCONA

# Location Map

0 1 2 3 km.

1:100,000

1 cm = 1 km.



- 10 a olivine diabase
- 9a Nipissing diabase
- 8 Lorrain Fm.
- 6,7 Gowganda Fm.

GEOLOGY (OGS Map 2526)

Gosselin Bay Property

1:20,000

31 M/4



Ontario



31M04SE9750 2.15314 CASSELS

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

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

Telephone: (705) 670-5853  
Fax: (705) 670-5863

March 4, 1994

Our File: 2.15314  
Transaction #: W9470.00001

Mining Recorder  
Ministry of Northern Development  
and Mines  
933 Ramsey Lake Road  
3rd Floor  
Sudbury, Ontario  
P3E 6B5

Dear Sir/Madam:

**Subject:** APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
1185965 ET AL IN CASSELS TOWNSHIP

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The assessment work credits for Geophysics filed under Section 14 of the Mining Act Regulations have been approved as outlined in the original submission.

The approval date is March 02, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mining and Land Management Branch  
Mines and Minerals Division

✓KR/jl  
Enclosures:

cc: Resident Geologist  
Cobalt, Ontario

Assessment Files Library  
Toronto, Ontario

**Report of Work Conducted After Recording Claim**  
Mining Act

*Mining Lands*  
Transaction Number  
W9470.00001

**2.15314**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>DAVID LARONDE</b>	Client No. <b>157346</b>
Address <b>Box 482 TEMAGAMI ONT P.O. # 210</b>	Telephone No. <b>569-2904</b>
Mining Division <b>SUDBURY</b>	Township/Area <b>CASSELL</b>
M or G Plan No.	
Dates Work Performed From: <b>DEC 8</b> To: <b>DEC 23, 1992</b>	

**Work Performed (Check One Work Group Only)**

Work Group	Type
Geotechnical Survey	<b>GEOPHYSICAL - DETAILED MAGNETOMETER + LINECUTTING</b>
Physical Work, Including Drilling	
Rehabilitation	
Other Authorized Work	<b>SECTION 18 ONLY.</b>
Assays	
Assignment from Reserve	

**RECORDED**  
JAN 6 1994  
Receipt *4/5*  
*5280*

**RECEIVED**  
FEB 24 1994  
MINING LANDS DIVISION

Total Assessment Work Claimed on the Attached Statement of Costs \$ **5280.00**

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
<b>MEEGWICH INC</b>	<b>Box 482 TEMAGAMI ONT P.O. # 210</b>
<b>D. LARONDE</b>	<b>Box 482 TEMAGAMI, ONT P.O. # 210</b>

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <b>Jan 6/94</b>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	-------------------------	--

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <b>DAVID LARONDE</b>		
Telephone No. <b>569-2904</b>	Date <b>Jan 6, 1994</b>	Certified By (Signature) <i>[Signature]</i>

**For Office Use Only**

Total Value Cr. Recorded <b>Applied \$5,281.00</b>	Date Recorded <b>Jan. 06/94</b>	Mining Recorder <i>[Signature]</i>	Received Stamp <b>RECEIVED</b> JAN 13 1994 P.M.
	Delegated Approval Date <b>April 6, 1994</b>	Date Approved <i>[Signature]</i>	
	Date Notice for Amendments Sent		





Ministry of  
Northern Development  
and Mines

Ministère  
du  
Développement du Nord  
et des mines

**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W 9476.00001

**2. 15314**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Linecutting + Geophysical Surveys + Reports	5280 <sup>50</sup>	5280 <sup>50</sup>
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
<b>RECEIVED</b>			
FEB 24 1994			
MINING LANDS BRANCH			
<b>Total Direct Costs Total des coûts directs</b>			5280 <sup>50</sup>

**2. Indirect Costs/Coûts indirects**

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as RECORDED HOLDER I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature 	Date Jan 6, 1994
---------------	---------------------



### INDEX TO LAND DISPOSITION

PLAN  
G-3415  
TOWNSHIP

# CASSELS

M.N.R. ADMINISTRATIVE DISTRICT

TEMAGAMI

MINING DIVISION

SUBBURY

LAND TITLES/REGISTRY DIVISION

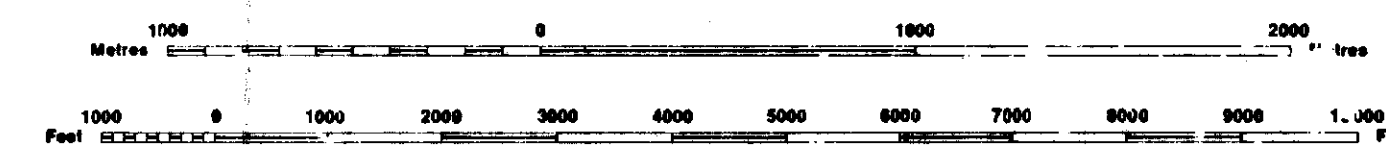
NIPISSING

DATE OF ISSUE

FEB 17 1994

SUBBURY  
MINING RECORDERS OFFICE

Scale 1:20 000



Contour Interval 10 Metres

RECEIVED

FEB 24 1994

MINING LANDS BRANCH

### AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only

SRO - Surface Rights Only

M+S - Mining and Surface Rights

Designation	C. Date	Date	Designation	C. Date	Date
0-ONT-07/92 MRCR	0-ONT-07/92 MRCR	JUNE 1982	0-ONT-07/92 MRCR	0-ONT-07/92 MRCR	JUNE 1982
0-ONT-07/92 MRCR	0-ONT-07/92 MRCR	JUNE 1982	0-ONT-07/92 MRCR	0-ONT-07/92 MRCR	JUNE 1982

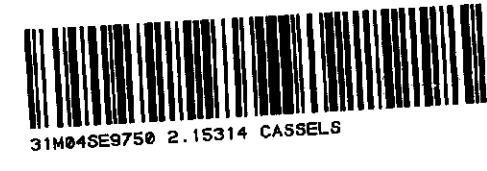
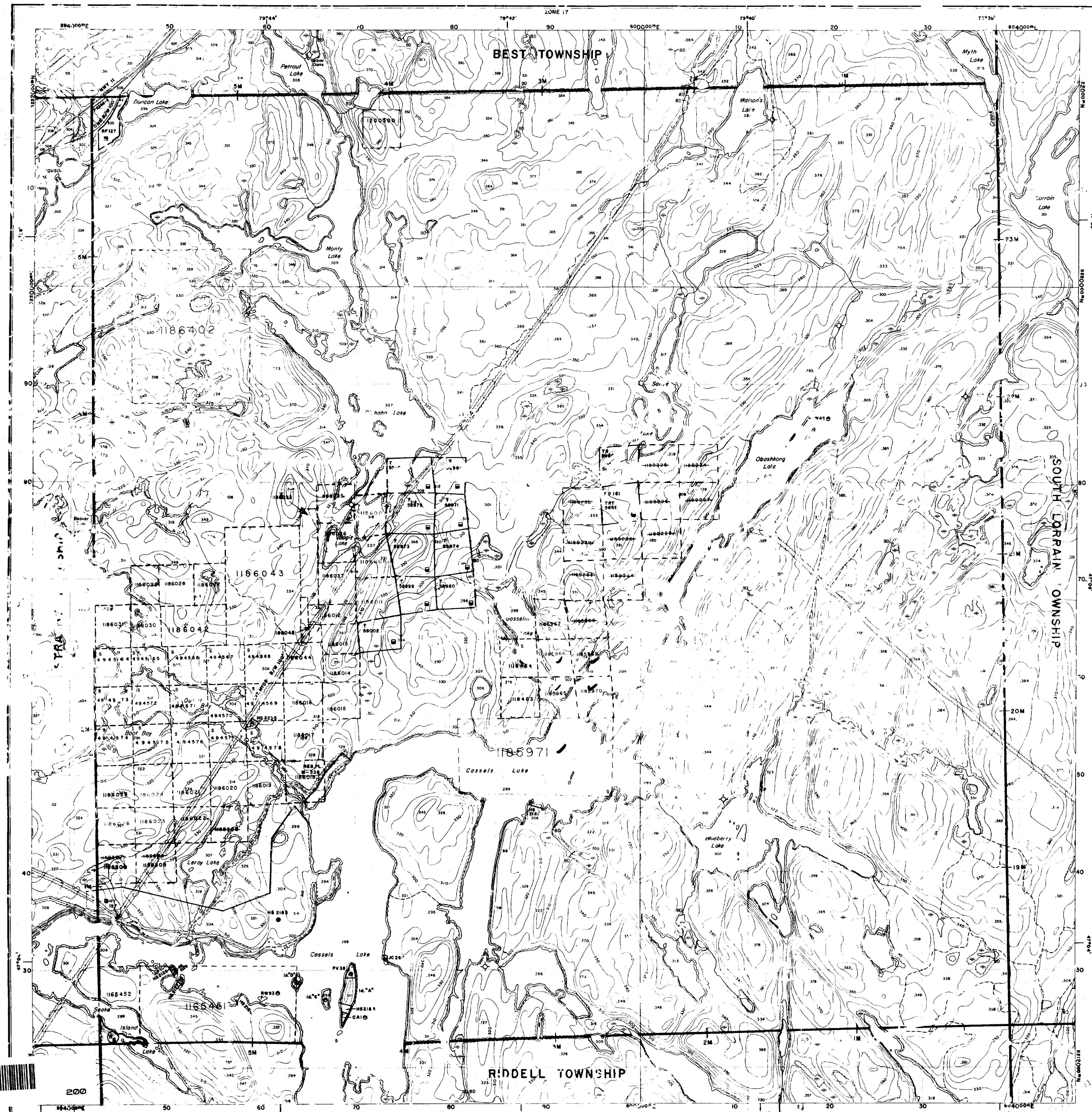
### SYMBOLS

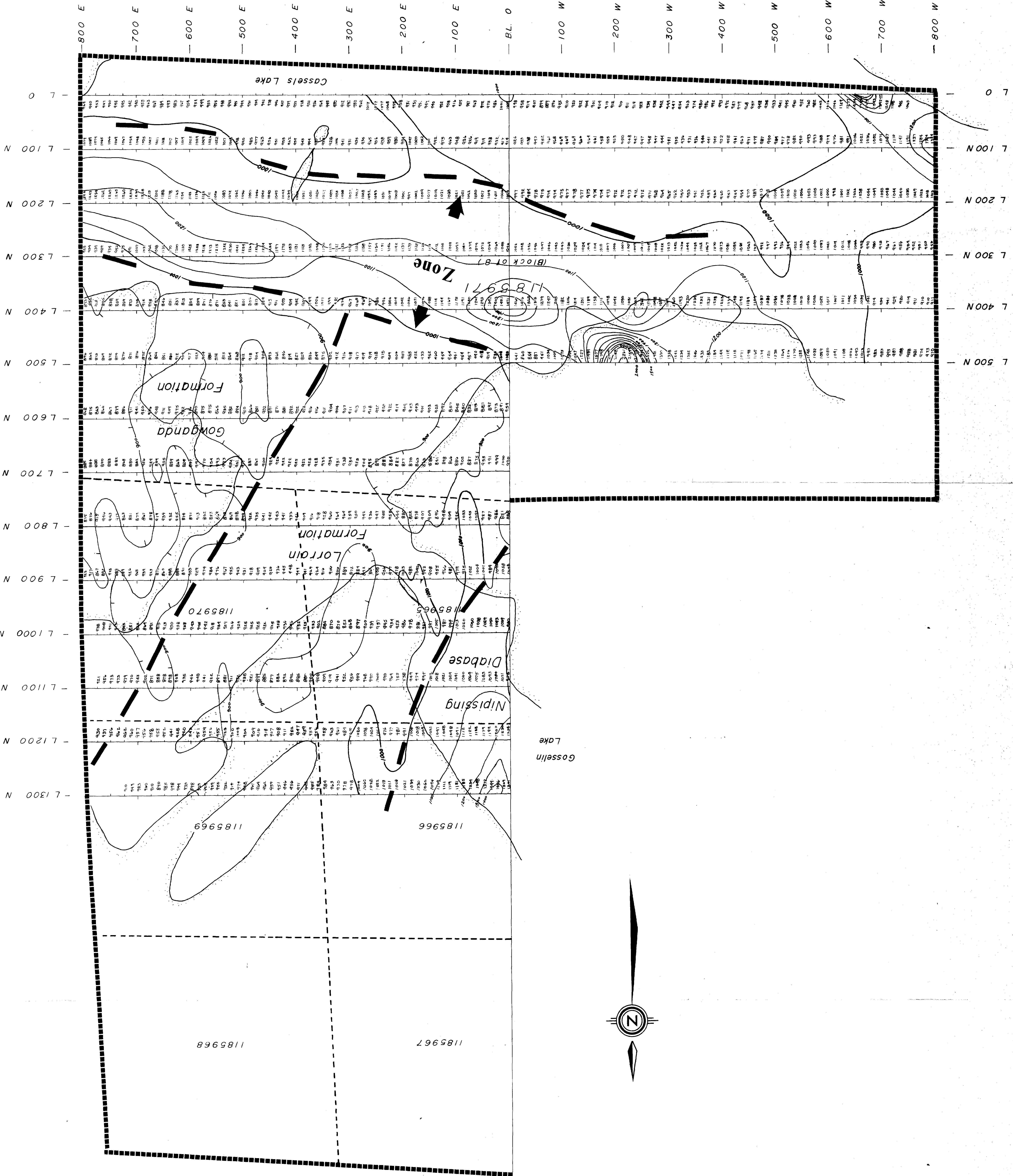
Boundary	.....
Township, Meridian, Baseline	.....
Flood allowance; surveyed	.....
shoreline	.....
Concession; surveyed	.....
unsurveyed	.....
Front; surveyed	.....
unsurveyed	.....
Right-of-way; road	.....
railway	.....
utility	.....
Reservation	.....
Chff, Pit, Pile	.....
Contour	.....
Interpolated	.....
Approximate	.....
Depression	.....
Control point (horizontal)	.....
Flooded land	.....
Min-hood frame	.....
Pipeline (below ground)	.....
Railway; single track	.....
double track	.....
abandoned	.....
Road; highway, county, township	.....
access	.....
trail, bush	.....
Shoreline (original)	.....
Transmission line	.....
Wooded area	.....

### 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	.....
LAND USE PERMIT	.....

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.

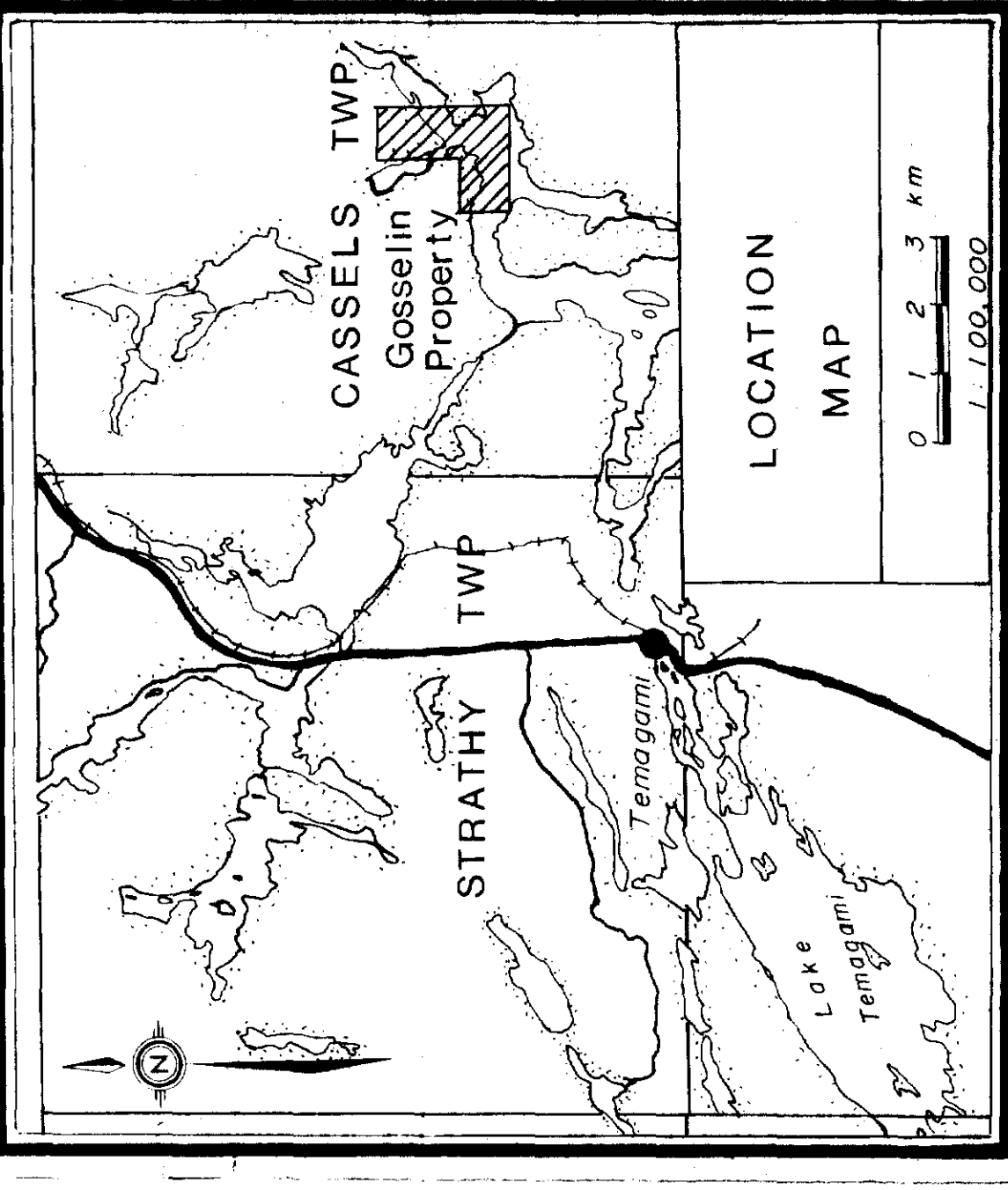




**LEGEND**

- contour interval - 100 nt
- shoreline
- claim line
- geologic contact assumed

Instrument EDA Omni IV  
Serial No. C-228



**Gosselin Property**

mineral rights: D. Laronde

**TOTAL FIELD MAGNETICS**

**CONTOURS**

Date: January 93 Done by: D. Laronde

SCALE: 1:2500 1 cm = 25 m

