

31M03NW0040 2 16623 SOUTH LORRAIN

010

**GEOPHYSICAL SURVEYS
OXBOW LAKE PROPERTY
Grid 'A'
South Lorrain Township
J. A. Gore
December 1995**

Author: David Laronde
Qual. # 2.8343

2.16623

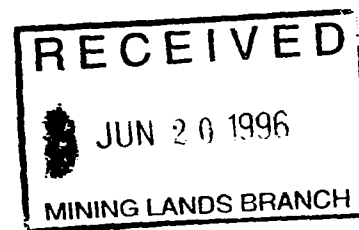


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1.0 INTRODUCTION:

In December of 1995, a program of linecutting and geophysical surveys was carried out on the Oxbow Lake Property held by John A. Gore of Ruby St., Cobalt, Ontario POJ 1CO. The linecutting work and the VLF survey was done by John Gore and the magnetometer survey was executed by David Laronde (Meegwich Inc.) of 407 Lakeshore Drive, P.O. Box 482, Temagami, Ontario POH 2HO who also is the author of this report.

A total of 5.525 km of linecutting was done using a 1.3 km long baseline running at an azimuth of 090 degrees for control. A survey pin was located on Line O at 038 S and used to reference a starting point for the baseline. The entire grid was surveyed for magnetics and VLF.

2.0 PROPERTY:

The property consists of 2 claims in South Lorrain Twp. which is not a surveyed township however many of the old patents and leases in the area were surveyed. The total area of the property is approximately 256 hectares. The claims are described as follows:

Claim no. 1118544	6 units	96 hectares
Claim no. 1118450	10 units	160 hectares
Total area.....		256 hectares

The topography on the property is typically rugged for this area which is known for its diabase ridges and cliffs. The vegetation is a mixture of poplar, spruce, jack pine and birch. Thick balsam bush can be found on some slopes. Sources of water for drilling are abundant from swamps and Oxbow Lake is only 350 meters north of the baseline.

3.0 LOCATION AND ACCESS:

The property is situated to the south and also to the east of Oxbow Lake, South Lorrain Twp., some 30 km southeast of the town of Cobalt, Ontario which itself is approximately 160 km north of the city of North Bay, Ontario. Lake Temiskaming is only 3 km to the east.

The property is accessed from Hwy. 567 which runs south from Hwy. 11B at North Cobalt, Ontario. An old bush road which now serves as an ATV trail or snowmobile trail connects with Hwy. 567 just south of Maidens Lake then winds its way 2 1/2 miles to the claims.

4.0 GEOLOGIC SETTING:

The property is underlain by Archean metavolcanics for the most part. Nipissing diabase is predominant in the northwest corner surrounding Oxbow Lake while Coleman member sediments are found along the south boundary of the property.

5.0 SUMMARY OF PAST EXPLORATION:

The area has been the centre of a major old style prospecting initiative in search of silver beginning around 1907 when silver was first discovered at the Silver Centre Mining Camp 3 miles north. There were countless trenches, pits, and shallow shafts dug into the bedrock nearly everywhere in the camp. This property was not excluded from that era of excavating by hand. The work encountered on this property is described as follows. An old shaft is located at 310 W on the baseline. By the size of the rock dump it is estimated to be in the order of 40 ft. deep. A large trench is located at 390 W on the baseline. Old pits are located at the east end of the baseline. On L 0 there is some trenching just south of the baseline.

Following the cessation of the silver quest the area lay dormant then a 20 year land caution was filed where no work had to be done to

keep up existing claims and staking was not allowed. The caution was removed in South Lorrain a few years ago and work began again for the metal cobalt and more recently gold and base metals. Enter a new era of prospecting with new geological concepts.

6.0 MAGNETOMETER SURVEY:

A total of 5.125 km was surveyed (410 readings) at 12.5 meter stations on lines spaced at 100 meters. The sensor was mounted on a 7 ft. aluminium staff to ensure a constant elevation throughout the survey.

6.1 Instrumentation: EDA Omni magnetometers were used for the survey. A base station 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.

6.2 Survey Results: The results are presented on contoured plans at 1:2500 scale. 57,000 gammas is subtracted from all readings to facilitate plotting of results.

Due to the nature of the magnetic responses and to facilitate discussion the grid shall be referred to as west and east halves.

West:

The west side of the grid (from L 200 W to L700 W) is a very flat response with a narrow high on L 500 W and 600 W at 75 S.

Diabase values can be seen in the northwest corner at the north boundary. There are a few other isolated highs of 100 gammas above the background of 425-475 gammas. A low on L 200 W 37 to 100 S has values 200 gammas below background.

East:

The east side of the grid has the appearance of a series of irregular highs that appear to be off-set. The trends of the highs are east-west and do not extend across more than 2 lines. The more prominent highs that range from 1723 to 8412 gammas are:

BL	075 W	1723 gammas
BL	050 E	6754
BL	150 E	8412
L 0	070 S	2241
L200 E	100 N	2508
L300 E	037 S	2336
L300 E	050 N	8321
L300 E	187 N	2316
L400 E	050 N	3508
L400 E	087 N	5194

The high on L 300 E at 050 N is in a narrow swamp with outcrop only 20 meters to the north. Apparently, according to J. Gore, this high had been the attention of some previous geophysical work and mineralized outcrops are near.

Lows in the same area of the grid trend east-west also. Most prominent are:

L 300 and 400 E at 100 N

L 0 125 N

L 0 037 N

L 100 E 175 N

It seems the background of the east end of the grid is around 1000 gammas. To the north and centre of the grid from L 100 W to 200 E the background is 200 gammas. This is lower than the west side of the grid as well.

7.0 VLF - EM SURVEY:

A total of 4.225 km was surveyed (169 readings) at 25 meter stations on lines spaced at 100 meters. All readings were taken facing to the north using NAA Cutler, Maine transmitter 24. kHz.

7.1 Instrumentation: A Geonics EM-16 was used for the survey. The instrument reads in-phase and quad-phase components of the vertical magnetic field as a percentage of the horizontal primary field. The resolution of the EM-16 is +/- 1%.

7.2 Survey Results: The results are presented in profile form on 1:2500 plan scale. The profile scale used was 1 cm. = 10%. Conductor axis are highlighted on the plan map.

The survey revealed 10 conductors that are weak to moderate in strength. Some conductors are partially defined due to lack of grid coverage or being too close to one another.

Conductors A, B, C, D: These conductors all have the same strike direction of approximately 75 degrees. They are moderate in strength and display a southerly dip with the exception of conductor B which at its western extremity appears to be near vertical which is in the swamp also. This group of anomalies is found in the west half of the grid which in terms of magnetics is "in the quiet half".

Conductor E: This conductor is a moderately strong anomaly trending southeast in the east half of the grid. It appears to cross the contact between the volcanics and the sediments.

Conductors F, G, H, H-1: These conductors strike east-west in the west half of the grid where the magnetic relief is extreme. These anomalies are too close to one another to get good definition;

for example F and G are only 50 meters apart causing shoulders and troughs to be flattened. However the conductors appear to be weak to moderate in strength. Many sections of the conductors are coincident with magnetic highs or flank a magnetic high or a low. The most pronounced example of this is on L 200 E at 100 N.

Conductors I, J: These conductors are found on the north boundary of the grid and are only partially defined due to grid coverage however enough of the profile can be seen to say they are probably genuine conductors. Conductor I is weak while J is even weaker.

8.0 CONCLUSIONS AND RECOMMENDATIONS:

According to magnetics, the west side of the grid appears to reflect homogeneous volcanic rock in contact with Nipissing diabase toward the north. The VLF conductors in this section of the grid trend northeast and could possibly indicate east-west faulting or conductive mineralization.

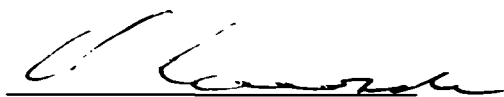
The east side on the other hand is quite the opposite. The narrow, isolated magnetic highs that range up to 8412 (7000 above background) are likely caused by highly magnetic mineralization and warrant further investigation. This is very encouraging if the mineralization is economic and can be traced with magnetics.

VLF conductors again could relate to either east-west faulting or conductive mineralization.

The magnetic lows were interpreted as faulting or shearing if they displayed an east-west trend (see contour map). Several VLF conductors also trend east-west. While on the ground the author viewed east-west trending geology and fractured zones. The control on these features is likely faulting or shearing however the physical parameters of the structures may also be the result of erosion characteristics.

A thorough program of mapping and sampling is recommended since exposure is good. A program of geochemistry is also recommended to cover faults where traces of deeper mineralization would have a chance to come to surface. Extending the grid to the north and east is also warranted to get a bigger picture in a favourable geologic environment.

Respectfully submitted,



David Laronde
Geology Engineering Technologist

References

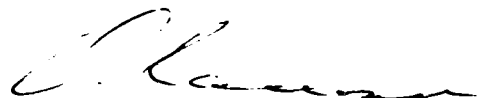
- 1975 Ontario Geologic Survey Map 2361 Sudbury-Cobalt
Geological Compilation Series 1 in. to 4 miles
- 1967 Ontario Dept. of Mines Map 2194 South Lorrain Twp.
Timiskaming District 1 in. to 1/2 mile

CERTIFICATE OF AUTHOR

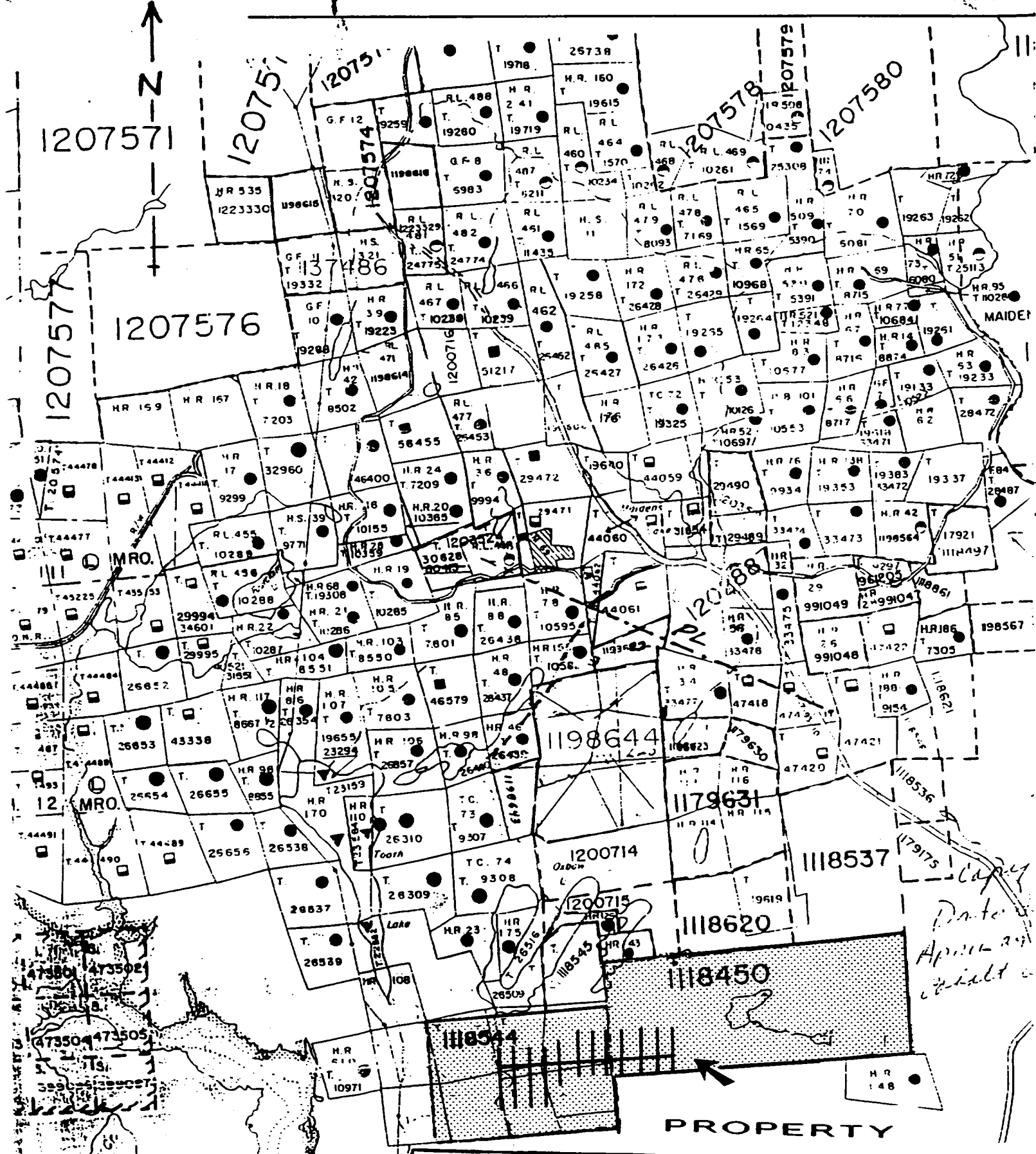
I, David Laronde of the town of Temagami, Ontario hereby certify:

1. That I am a consulting technologist and have been engaged in my profession for the past 16 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 20th day of December 1995.



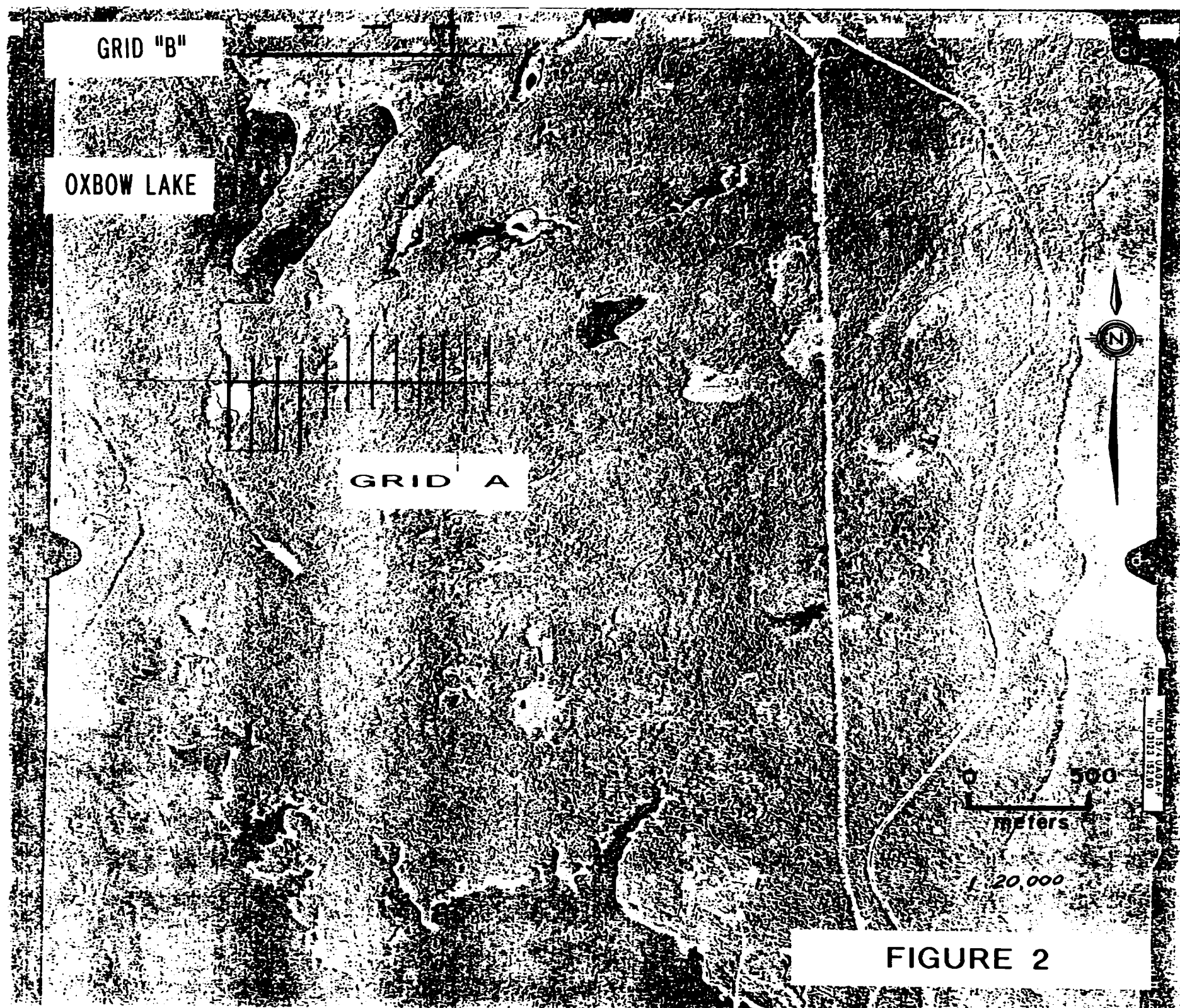
David Laronde

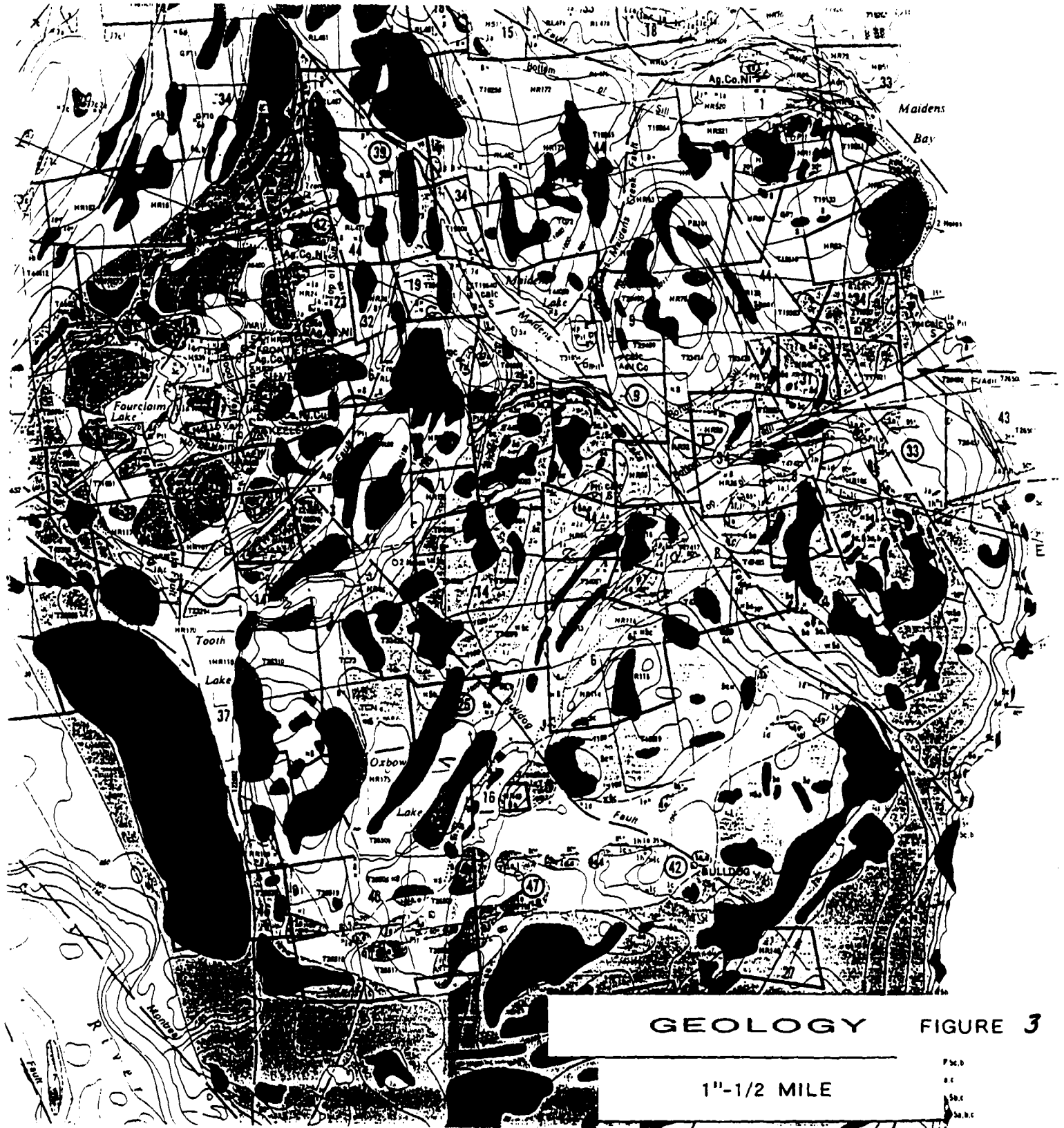


OXBOX LAKE PROPERTY
CLAIM MAP
 SOUTH LORRAIN TWP.
 1" TO 1/2 MILE

FIGURE 1

Air photo Grid location





UNCLASSIFIED METASEDIMENTS^d

11 Quartzose and quartzose feldspathic paragneisses, characterized by open folds.

FAULT CONTACT

SUPERIOR PROVINCE

PROTEROZOIC

LATE MAFIC INTRUSIVE ROCKS

10 Olivine diabase (Keweenaw).

9 Diabase, undifferentiated (may be Matachewan age in part).
9a Quartz diabase.

8 Quartz diabase (Nipissing).

INTRUSIVE CONTACT

HURONIAN

COBALT GROUP

LORRAIN FORMATION^d

7 Undifferentiated.
7a Grey feldspathic quartzite.
7b Pale green to white quartzite.
7c Arkose.
7d Red quartzite.

FIRSTBROOK FORMATION^d

6 Undifferentiated.
6a Laminated quartzite.
6b Quartzite.

COLEMAN FORMATION^d

5 Undifferentiated.
5a Quartzose siltstone and greywacke.
5b Arkose.
5c Conglomerate.
5d Schistose rocks.
5e Laminated argillite.

UNCONFORMITY

ARCHEAN

FELSIC TO INTERMEDIATE INTRUSIVE ROCKS^d

4 Quartz diorite.

3 Granitic rocks, undifferentiated.
3a Hornblende granite.
3b Gneissic granite.
3c Granodiorite.
3d Quartz monzonite.

INTRUSIVE CONTACT

EARLY MAFIC INTRUSIVE ROCKS^d

2 Lamprophyre, undifferentiated.
2a Hornblende lamprophyre.
2b Biotite lamprophyre.

INTRUSIVE CONTACT

METAVOLCANICS AND METASEDIMENTS^d

1 Undifferentiated.
1a Intermediate to mafic metavolcanics.
1b Amygdaloidal basaltic rocks.
1c Metadiabase, metagabbro, or diabasic flows.
1d Quartzite and greywacke.
1e Felsic metavolcanics with or without interbedded quartzite.
1f Pyroclastic rocks.
1g Quartz-feldspar porphyry.
1h Schist, mainly chloritic.

Report of Work Conducted After Recording Claim

Mining Act

(O.P.A.P. File # 95-039)

Transaction Number
DOCUMENT No. W 9680-0039

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.

2.16623

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



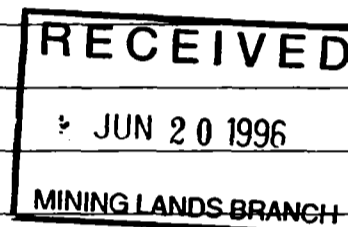
31M03NW0040 2.16623 SOUTH LORRAIN

900

Recorded Holder(s) John A. Gore		Client No. 138273
Address 31 Ruby Street Box#212 Cobalt, Ont. POJ 1C0		Telephone No. (705) 679-5710
Mining Division Larder Lake	Township/Area SOUTH LORRAIN	M or G Plan No. G-3448
Dates Work Performed From: Dec. 11/95		To: Dec. 12/95

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Magnetometer Survey and Report, For Grid "A"
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	



Total Assessment Work Claimed on the Attached Statement of Costs \$ **1000.00**

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
Dave Laronde	
Meezwitch Inc.	P.O. Box #482 Temagami, Ontario, POH 2H0

(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 June 5/96	Recorded Holder or Agent (Signature) <i>John A. Gore</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 John A. Gore, 31 Ruby Street Box#212, Cobalt, Ont. POJ 1C0		
Telephone No. (705) 679-5710	Date June 5/96	Certified By (Signature) <i>John A. Gore</i>

For Office Use Only

Total Value Cr. Recorded 1000	Date Recorded 96 Jun 6	Mining Recorder <i>[Signature]</i>	Received Stamp JUN 20 1996
	Deemed Approval Date sep 4.	Date Approved <i>[Signature]</i>	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1118450	10
	1118544	6
Total Number of Claims		2

Value of Assessment Work Done on this Claim	Value Applied to this Claim
500.00	-
500.00	-
Total Value Work Done	
1000.00	-
Total Value Work Applied	
-	-

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
-	500.00
-	500.00
Total Assigned From	
-	1000.00
Total Reserve	
-	1000.00

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature N. A.	Date
---	---------------------------	------

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^e 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		
	Mar. Survey	1000.00	
Supplies Used Fournitures utilisées	Type		
			1000.00
Equipment Rental Locaton de matériel	Type		
Total Direct Costs Total des coûts directs			1000.00

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	Type		
Mobilization and Demobilization Mobilisation et démoblisation	Type		
Sub Total of Indirect Costs Total partiel des coûts indirects			
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)			1000.00

te: 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.

ing Discounts

Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

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	Évaluation totale demandée
	x 0,50 =

ification Verifying Statement of Costs

by certify:
 he amounts shown are as accurate as possible and these costs incurred while conducting assessment work on the lands shown e accompanying Report of Work form.

s Recorded Holder I am authorized
 (Recorded Holder, Agent, Position in Company)

ke 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 John C. Gore Date June, 5/96

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

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

August 20, 1996

Our File: 2.16623
Transaction #: W9680.00319

Mining Recorder
Ministry of Northern Development & Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Mr. Spooner:

**SUBJECT: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND, CLAIM(S)
1118450 & 1118544 IN SOUTH LORRAIN TOWNSHIP**


Assessment work credit has been approved as outlined on the attached Declaration of Assessment Work Form. The credit has been approved under Section 14, Geophysics (MAG, VLF) of the Assessment Work Regulation.

The approval date is August 20, 1996. Please indicate this approval on the claim record.

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

Yours sincerely,
ORIGINAL SIGNED BY:


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

 SBB/jf
Enclosure:

cc: Resident Geologist
Cobalt, Ontario

✓ Assessment Files Library
Sudbury, Ontario

DISTRIBUTION OF ASSESSMENT WORK CREDIT

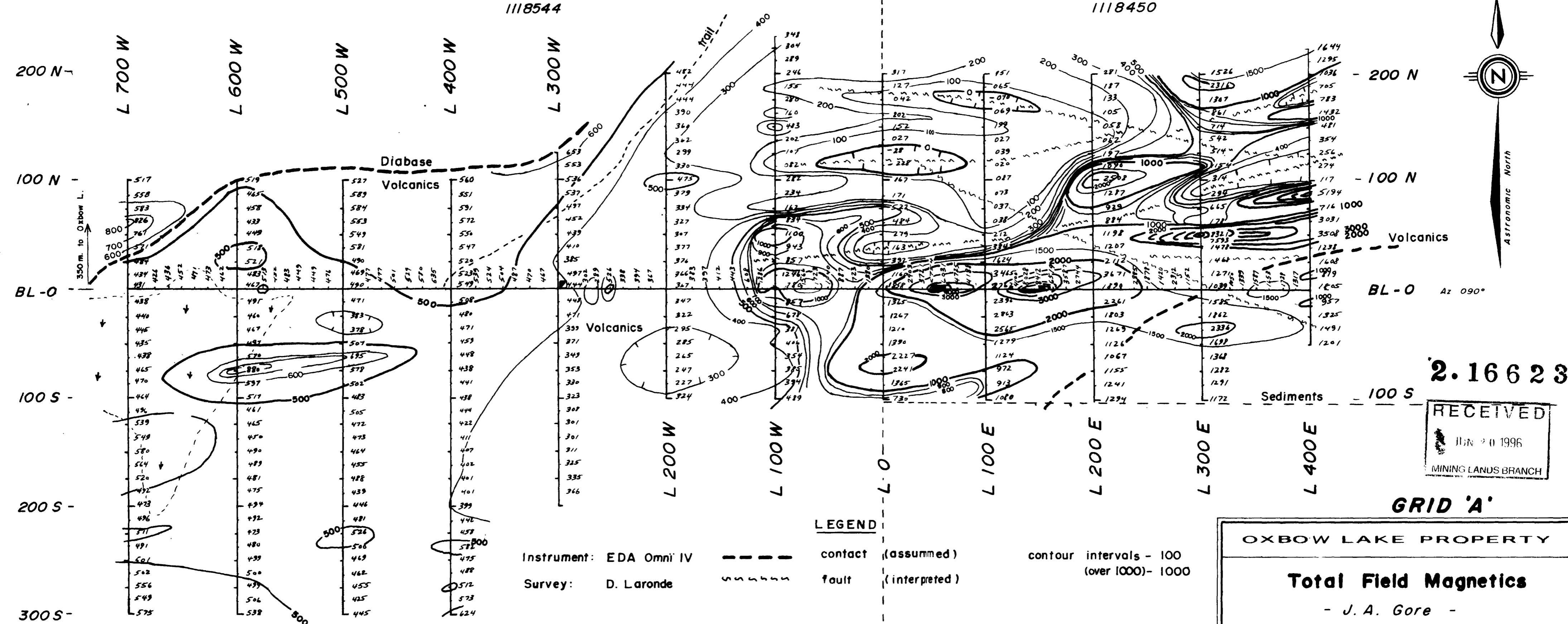
August 20, 1996

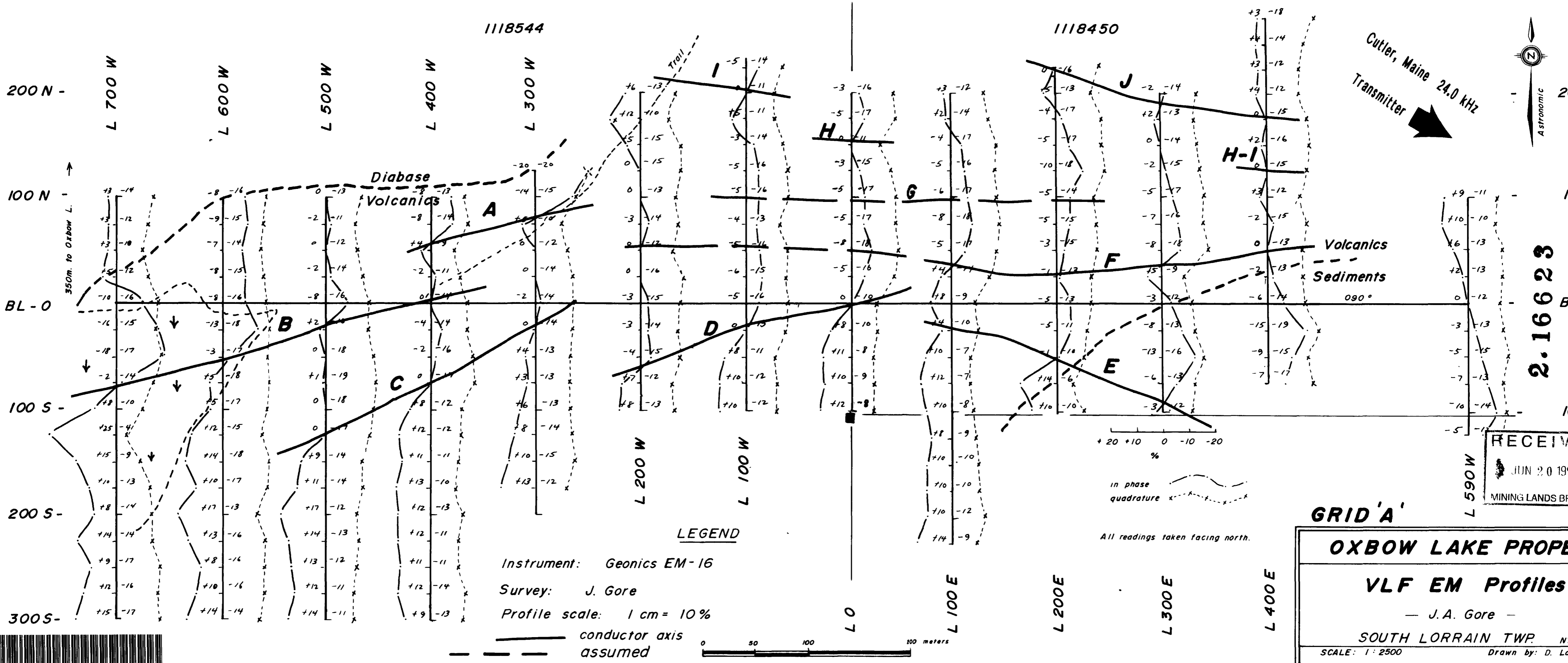
File: 2.16623

Transaction #: W9680.00319

<u>CLAIM NUMBER</u>	<u>VALUE OF WORK PERFORMED</u>
1118450	\$1,354.00
1118544	\$1,353.00

TOTAL	\$2,707.00

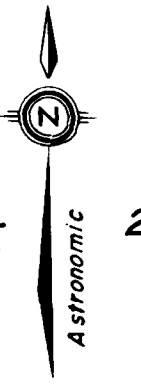




1118544

1118450

Cutler, Maine 24.0 kHz
Transmitter



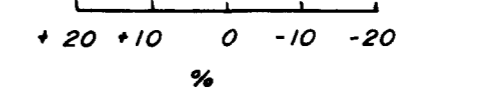
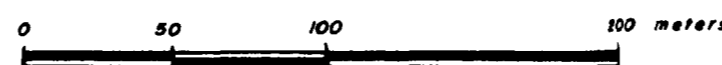
2.16623

RECEIVED
JUN 20 199
MINING LANDS BR

LEGEND

Instrument: Geonics EM-16
Survey: J. Gore
Profile scale: 1 cm = 10 %

— conductor axis
- - - assumed



in phase
quadrature

All readings taken facing north.

GRID 'A'

OXBOW LAKE PROPE

VLF EM Profiles

— J. A. Gore —

SOUTH LORRAIN TWP. N7

SCALE: 1:2500

Drawn by: D. La



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