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REPORT ON

INDUCED POLARIZATION SURVEY

ASQUITH OPTION

BROWNING TOWNSHIP

FOR FALCONBRIDGE LIMITED

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NTS:41 P/6

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PROJ # 8274

DECEMBER 1995

D. LONDRY TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

An induced polarization survey was carried over 15 claim units in Browning Township for Falconbridge Limited.

Four weak, linear, north-south striking chargeability anomalies were outlined in the IP survey.

It is recommended that a geological investigation of the property be made to determine the significance of these anomalies. A magnetic survey would help map any Nipissing diabase which are present on the property.



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INTRODUCTION

During November 1995, an induced polarization survey was carried over 5 claims in Browning Township for Falconbridge Limited.

The property is located in the east central portion of Browning Township, approximately 25 kilometres south southeast of the village of Shining Tree, Larder Lake Mining Division (Figure 1(a). It was accessed by travelling southwest from Shining Tree along Highway 560 for approximately 7 kilometres, east along the Sandy Lake Road for 10 kilometres, south along a lumber access road for 15 kilometres and then east for 2 kilometres along another lumber road.

The property consists of five claims which are comprised of a total of fifteen 40 acre claim units (Figure 1(b)). A description of the claims is given in Table 1.

CLAIM #	# OF UNITS	DESCRIPTION	
L1151288	1	Browning Twp.	
P1151289	6	Browning Twp.	
P1151290	1	Browning Twp.	
P1151756	6	Browning Twp.	
P1151757	1	Browning Twp.	

Table 1 : Property Description

The personnel involved in the IP survey included D. Londry, B. LeRoy and M. Gauthier.



Figure I(a) : Location Map



Figure I(b) : Claim Map

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Browning Township was mapped by D. Long and A. Colvine (1986) in 1984 and 1985 at a scale of 1:50,000. The northwest corner of the township is underlain by Archean mafic volcanics. The geology over the rest of the township, including the Asquith option, consists of Huronian sediments, which belong to the Lorrain Formation, and younger Nipissing diabase.

There has been no previous work filed for assessment credits on the property.

SURVEY DESCRIPTION

A north-south base line, designated 5000 East, was established through the center of the claim block. Orthogonal grid lines were cut every 400 metres except between 4600 and 5000 North where the line spacing is 200 metres (Figure 1(b)).

The IP survey was carried out with the Scintrex IPR-11 time domain receiver and the Scintrex TSQ-3 3000 Watt transmitter. A gradient array was used with an 'a' spacing of 50 meters. The remote electrodes were located by compass and pacing at 3400 East and 6600 East on Line 5200 North.

The current on-off time is two seconds; with the IPR-11, integration takes place during ten time intervals or 'slices', after shut-off. Table 2 lists the delay and integration times for each slice.

SLICE	DELAY TIME (MS)	INTEGRATION TIME (MS)
0	30 60	30 30
2 3 4	90 120 150	30 30 180
5 6 7	330 510	180 180 360
8 9	1050 1410	360 360

Table 2: Delay and integration times of the Scintrex IPR-11 IP receiver.

RESULTS

The M5 chargeability and IP resistivity are plotted on maps 1 and 2 respectively, at a scale of 1:5000; the chargeability data are contoured every .5 ms and the resistivity data are contoured every 500 ohm-m. A colour image of the data is presented in Figures 2 and 3.

There are four linear chargeability anomalies which are labelled 'A' to 'D' on map 3. All of these anomalies strike north-south to north northwest and the amplitude is only slightly higher than background.

Anomaly 'A' is located between 5000 East on Line 6200 North and 5100 East on Line 4800 North. This anomaly has the greatest amplitude of the four anomalies and the width is between 50 and 100 metres. There is no correlation between the chargeability and resistivity; anomaly 'A' is located between areas of higher resistivity to the west and lower resistivity to the east.

Anomalies 'B' and 'C' are located to the west of baseline 5000 East; anomaly







Figure 3 : Colour Image of IP Resistivity, Asquith Option

n in itesistivity, Asquitti t

'B' extends from 6200 North to 4800 North and anomaly 'C' from 5400 North to 4800 North. Two parallel, linear anomalies to the south of 4800 North are offset from those to the north, suggesting a possible east-west fault between 4600 and 4800 North (see map 3).

Anomaly 'D' is located in the northeast corner of the property. The high chargeabilities at the east end of Lines 4600 to 5000 North are likely the southeast extension of this anomaly.

Date 6/95

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D. LONDRY TIMMINS GEOPHYSICS LTD.

REFERENCES

LONG, D.G.F. and COLVINE, A.C.

1986: Geology of the Huronian Strata in Part of the Northwestern Cobalt Plain, Including Sheard, Ogilvie, Amyot, Browning, Hodggets, Unwin, Lampman and Leask Townships and Parts of North Williams, Dufferin, Stull, Valin and Marshay Townships, Districts of Timiskaming and Sudbury; Ontario Geological Survey, Map P.3048. Geological Series Preliminary Map, scale 1:50,000. Geology 1984 and 1985.



Report of Work Conducted After Recording Claim

Transaction Number 9690.00191

Mining Act

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 req Recorder.



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- A separate copy of this form must be completed
- Technical reports and maps must accompany th
- A sketch, showing the claims the work is assign

		000
Recorded Holder(s)		Client No.
JOHN L. TINORLE	-	202/25
Address	· · · · · · · · · · · · · · · · · · ·	Telephone No.
907 - IIDERSKINE	AUE TORONTO DWT MYPIYY	416-481-5781
Mining Division	Township/Area	M or G Plan No.
LARDER LAME	BROWNING TOWNSHIP	6957
Dates Work From: Octor Ele / , Performed Octor Ele / ,	1995 To: DEC 15	- 1995

Work Performed (Check One Work Group Only)

	Work Group	Туре
V	Geotechnical Survey	INDICED FOLARIZATION SURVEY / LINE WITTING
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

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

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
TIMMUS LEOPHYSICS LTO	547 LOACH'S Rd. SUdbory, ONT P3E 2R3
FALCONBRIDGE LIMITED	Box 1140, 571 Mavera HUE Transide Our PUN 749

(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 Penil 8, 1996	Recorded Holder or Agent (Signature)
	/	7

Certification of Work Report

I certify that I have a pers its completion and annexe	onal knowledge of the facts set forth i ad report is true.	in this Work report, having pe	erformed the work or witnessed same during and/or after
Name and Address of Person	Certifying	-110 ERKINGA	JE TSOUNTU, QUE MYPIYY
Telepone No. 416 - 481 -57	-81 Date APRIL E	S 1996	(Signature) Lindab
For Office Use Only		Pzr	F
Total Value Cr. Recorded	Date Recorded Deepfed Approval Date Deepfed Approval Date 14 G (, Date Notice for Amendments Sent	Mibing Recorder Date Approved	Received Stamp

0241 (03-91)

241 (03791)				· · · · · ·									Work Report Number for Applying Reserve
Total Number of Claims	Կ							. 11512 90	115/2 89	1/15-12 88	1/51757	· //5/756	Claim Number (see Note 2)
								~	e	\ \	\ \	6	Number of Units
Total Value Work Done	1/258							458	4800	600	600	4800	Value of Assessment Work Done on this Claim
Total Value Work Applied	11258							458	4800	600	600	0084	Value Applied to this Claim
Total Assigned From						•:							Value Assigned from this Claim
Total Reserve													Reserve: Work to be Claimed at a Future Date

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 priorize the deletion of credits. Please mark (ν) one of the following:

1. LY Credits are to be cut back starting with the claim listed last, working backwards.

2. Credits are to be cut back equally over all claims contained in this report of work.

3. Credits are to be cut back as priorized 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	Signature	Date
or leased land at the time the work was performed.		



Ministry of Northern Development and Mines

1. Direct Costs/Coûts directs

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

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 quesiton sur la collece 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.

2. Indirect Costs/Coûts indirects

d'évaluation.

Туре	Descrip	tion	Amount Montant	Totals Total global
Transportation Transport	Туре			
Food and Lodging Nourriture et hébergement				
Mobilization and Demobilization Mobilisation et démobilisation				
· <u>·····</u>	Sub To Total partiel	tal of Indir des coûts	ect Costs indirects	
Amount Allowable Montant admissible	(not greater than e (n'excédant par	20% of Dir 20% des d	ect Costs) coûts directs)	
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Valeur tota d'évaluatio (Total des co et indirects a	le du crédit n dis directs dmissibles	11258

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.

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.
- 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
× 0,50 =	

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.

Date Schature Horain 8 1996 Ll.

Amount Totals Description Type Montant Total globa Labour Wages Salaires Main-d'oeuvre **Field Supervision** Supervision sur le terrain 1200 1200 Type Contractor's and Consultant's Geophysical 7704 Fees Droits de Lincesting l'entrepreneur et de l'expert-2354 consell 10058 Type Supplies Used Fournitures utilisées ype Equipment Rental Location de matériel **Total Direct Costs** 11258 Total des coûts directs

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

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.

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			
× 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, Agent, Position in Company)

to make this certification

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Nota : Dans cette formede lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les



Ministère du Ministry of Développement du Nord Northern Development Geoscience Assessment Office and Mines et des Mines 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5 Telephone: (705) 670-5853 Fax: (705) 670-5863 July 5, 1996 Our File: 2.16541 Transaction **#**: W9680.00181

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, CLAIMS L.1151756 ET AL IN BROWNING TOWNSHIP

Assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission. The credit has been approved under Section 14, Geophysics (IP), of the Assessment Work Regulation.

The approval date is July 04, 1996.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5858.

Yours sincerely, ORIGINAL SIGNED BY:

Zon cashil.

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

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LBJ/CC

cc: Resident Geologist Cobalt, Ontario Assessment Files Library Sudbury, Ontario





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