# SUDBURY CONTACT MINES LTD.

# **GEOPHYSICAL SURVEYS**

RECEIVED DEC 3 - 1996 MINING LANDS BRANCH

McVITTIE TWP. PROPERTY

<u>July 1996</u>

2·16906



32D04NE0152 2.16906 MCVITTIE

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# **MAPS**

1 - Claim Map	1:20 000
2 - Grid Map	1:20 000
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4 - Location Map	1:600 000
5 - Location Map	1:1 000 000



#### I - INTRODUCTION:

At the request of SUDBURY CONTACT MINES LTD., <u>geophysical</u> <u>surveys</u> were undertaken, during the month of July, 1996, by Exploration Services Reg'd., on the Company's McVittie township property.

The <u>magnetometer</u> and <u>electromagnetic (V L F)</u> surveys were carried out to enhance the interpretation of the local geology.

# II - PROPERTY:

The McVittie Twp. property consists of 33 claims of 1 unit each and 1 claim of 10 units for a total of 43 claim units; the claim numbers are listed as follows:

799522 - 799523 - 799524 - 801125 - 801129 - 801130 - 801131 - 801132 801133 - 801134 - 801135 - 801144 - 801145 - 801146 - 801147 - 801148 801149 - 801150 - 801151 - 801153 - 801166 - 801167 - 801168 - 801169 801170 - 801171 - 801172 - 801173 - 801174 - 801175 - 1151867 - 1151868 1151869 - 1200514.

# **III - LOCATION & ACCESSIBILITY:**

The McVittie Twp. claim group is located in the southwest corner of McVittie Twp. at an approximate distance of 3 Km northwest of the town of Larder Lake.

From Larder Lake, the claim group may be reached by driving westward along highway 66 for a distance of 3 Km, then northwards along the the Diamond Lake access road for an additional distance of 1.5 Km. The Diamond Lake access road traverses the western area of the claim group.

### IV - GEOPHYSICAL SURVEYS:

The surveys were carried out along a previously cut grid whose 3 Km long base line trends east-west. Cross lines, spaced at every 200 m intervals extend on both sides of the base line with varying lengths. Thus a total of 24.8 Km of cross lines and 5.6 Km of base line and tie lines were covered by the surveys.

Magnetometer Survey:

- Instrumentation:

An OMNI IV E.D.A. nuclear precession magnetometer was used for the survey with accompanying base station for diurnal corrections;

- 2 -

readings were taken at every 12.5 m. intervals.

- Presentation:

The data were plotted on maps at the scale of 1:5 000. The report includes a map of the profiles of the total field, a coloured and a black and white map of the contours of the total field.

- Observations & Conclusions:

The 57 700 gamma contour interval outlines an east-west trending, 400 to 600 meter wide horizon within which lies a series of magnetic anomalies as defined by the 58 000 gamma contour lines.

The McVittie Twp. geological map indicates that the horizon outlined by the 57 700 contour lines is underlain by TRACHYTE.

The irregular magnetic pattern within the Trachyte horizon is probably caused by a variable distribution of the disseminated magnetite.

#### **Electromagnetic V L F Survey:**

- Instrumentation:

A Geonics' EM-16 V L F unit was used for the survey; readings were taken at every 25 meter intervals tuned to station NAA emitting

## - Presentation:

The « In-phase » and « Out-of-Phase » componants were plotted on a map at the scale of 1:5 000. The report also includes a coloured Frazer Filtered map.

#### - Observations & Conclusions:

A series of conductors has been outlined by the survey. These generally trend east, southeast in directions more or less parallel to the local stratigraphy. Most of the conductors lie within areas of overburden. The most prominent conductor has been labeled on the map as conductor « E ». It could be associated with a major fault zone.

The true nature of the V L F conductors should be determined by an « Induced Polarization » survey.

## V - CONCLUSIONS & RECOMMENDATIONS:

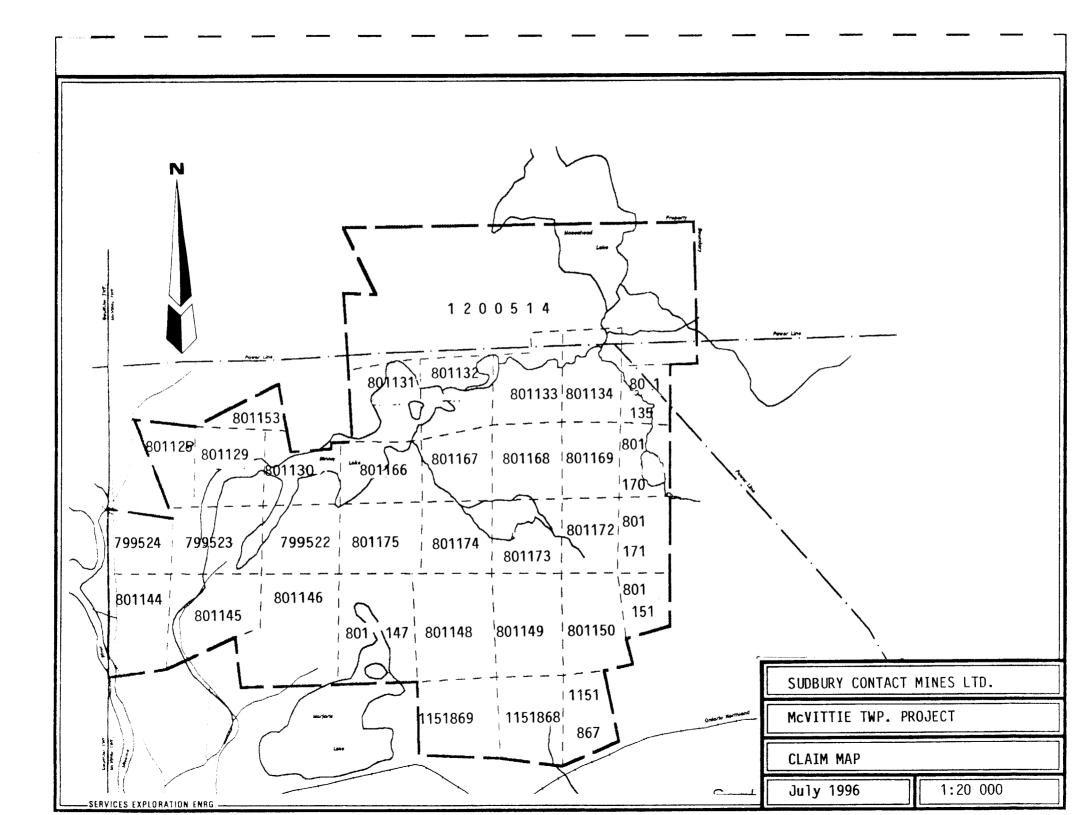
The <u>magnetometer</u> survey has outlined, in areas of overburden, the extent of the TRACHYTE horizon.

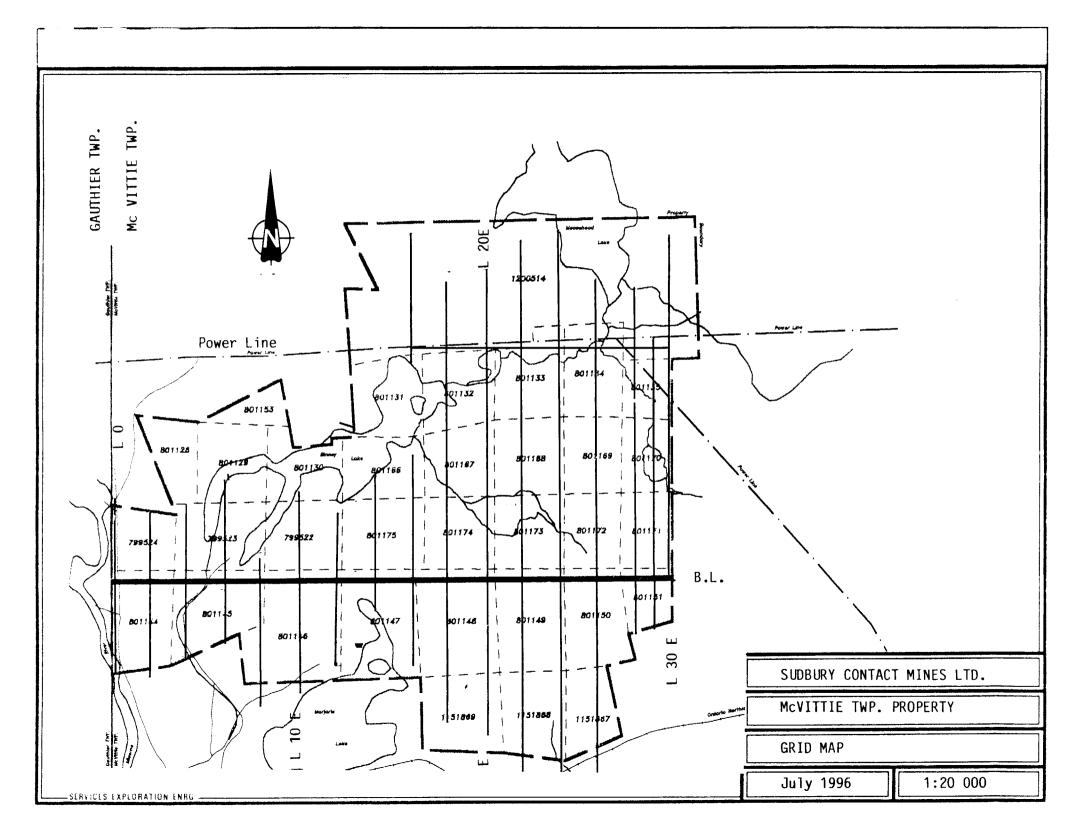
The <u>electromagnetic V L F</u> survey has outlined a series of conductors which must be verified with an I.P. survey.

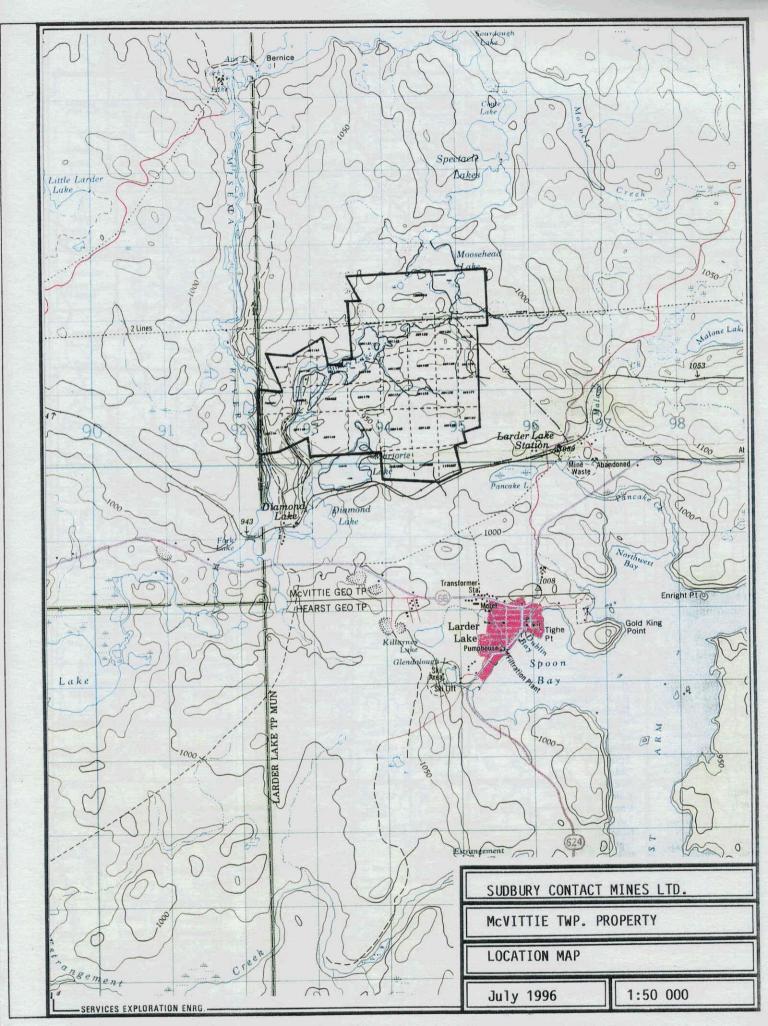
**Respectfully submitted:** 

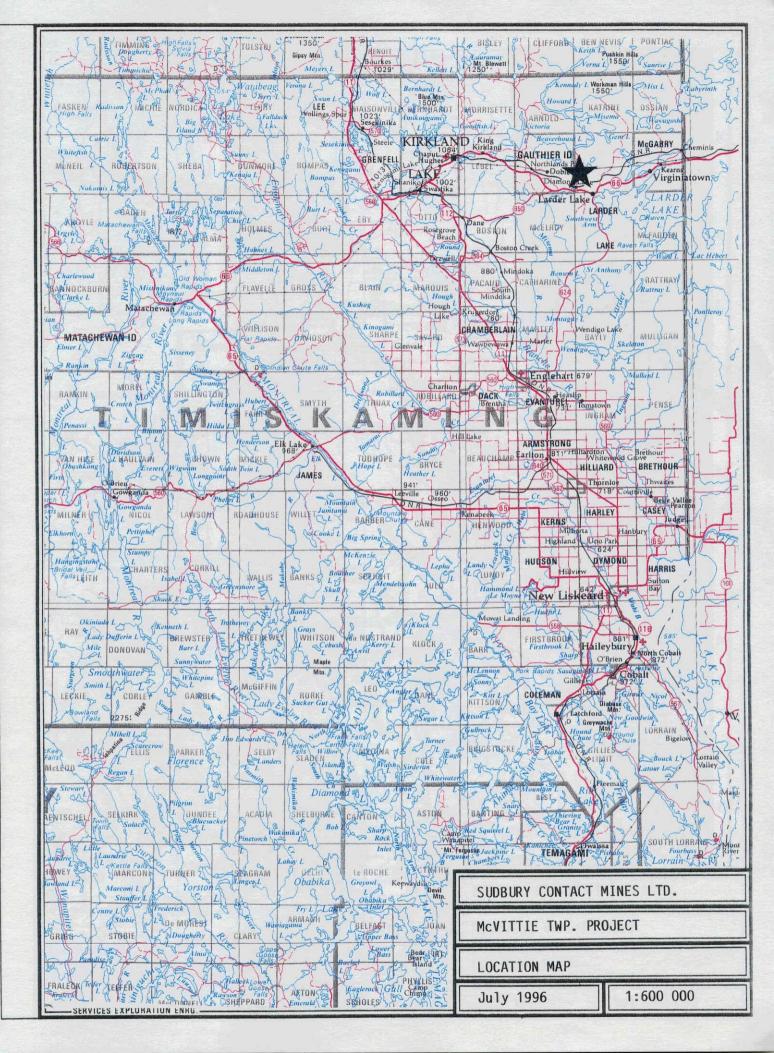


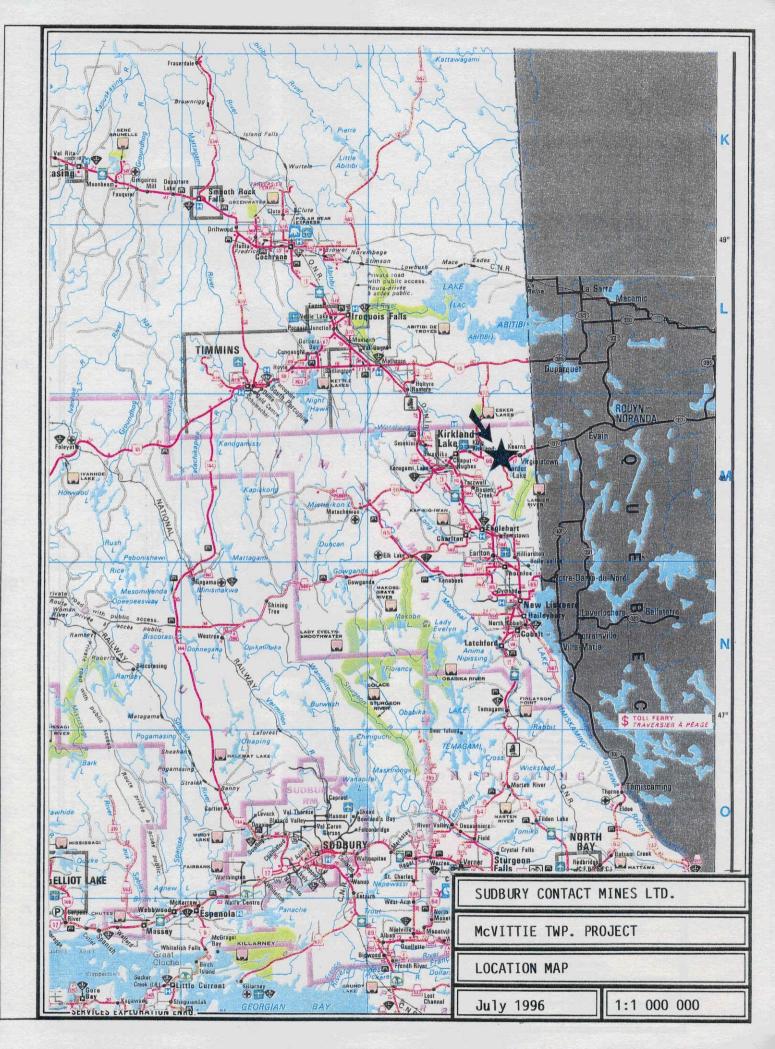
Edouard Chartré, B.A., B. Sc.: July 15,1996.

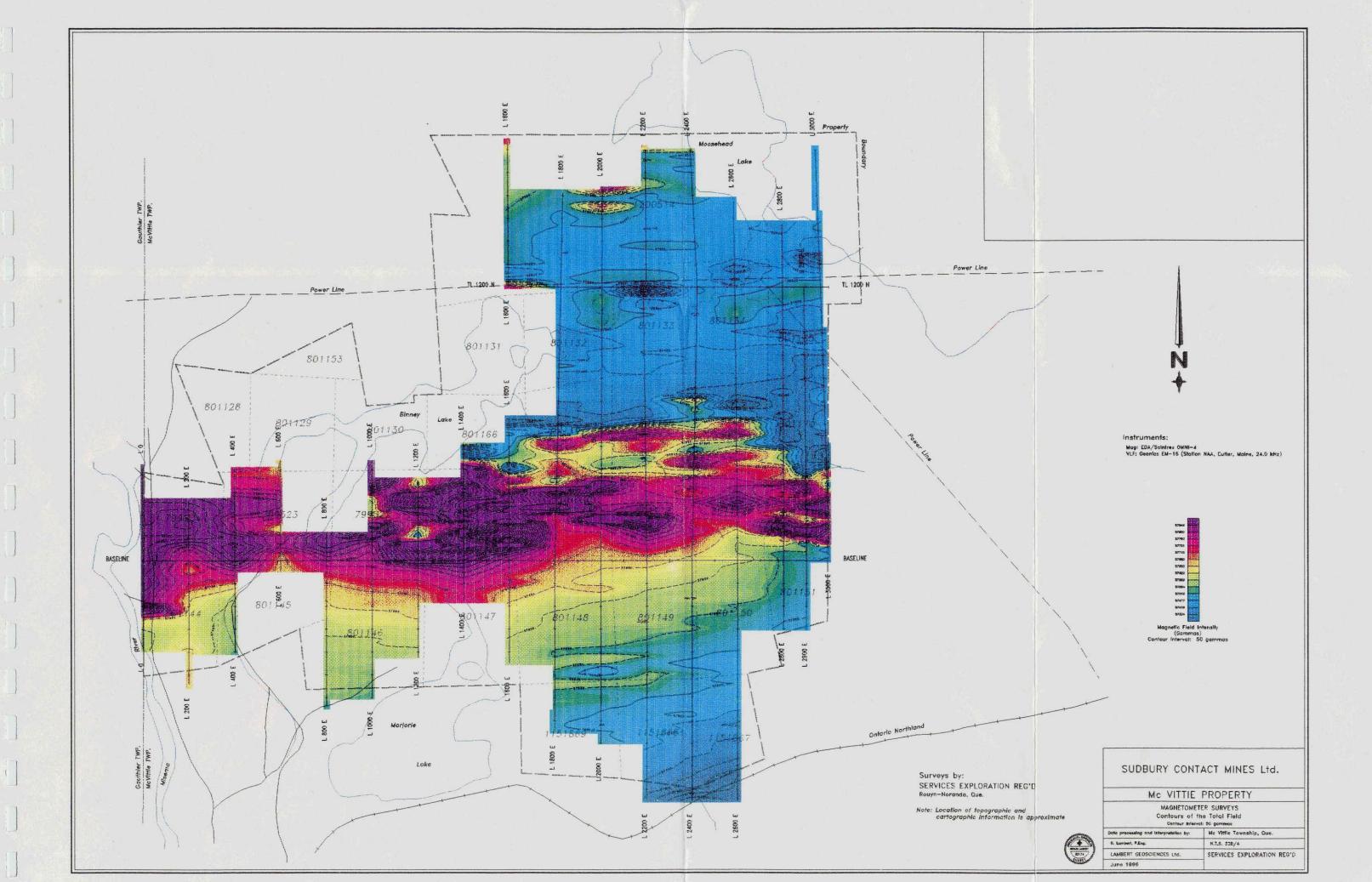


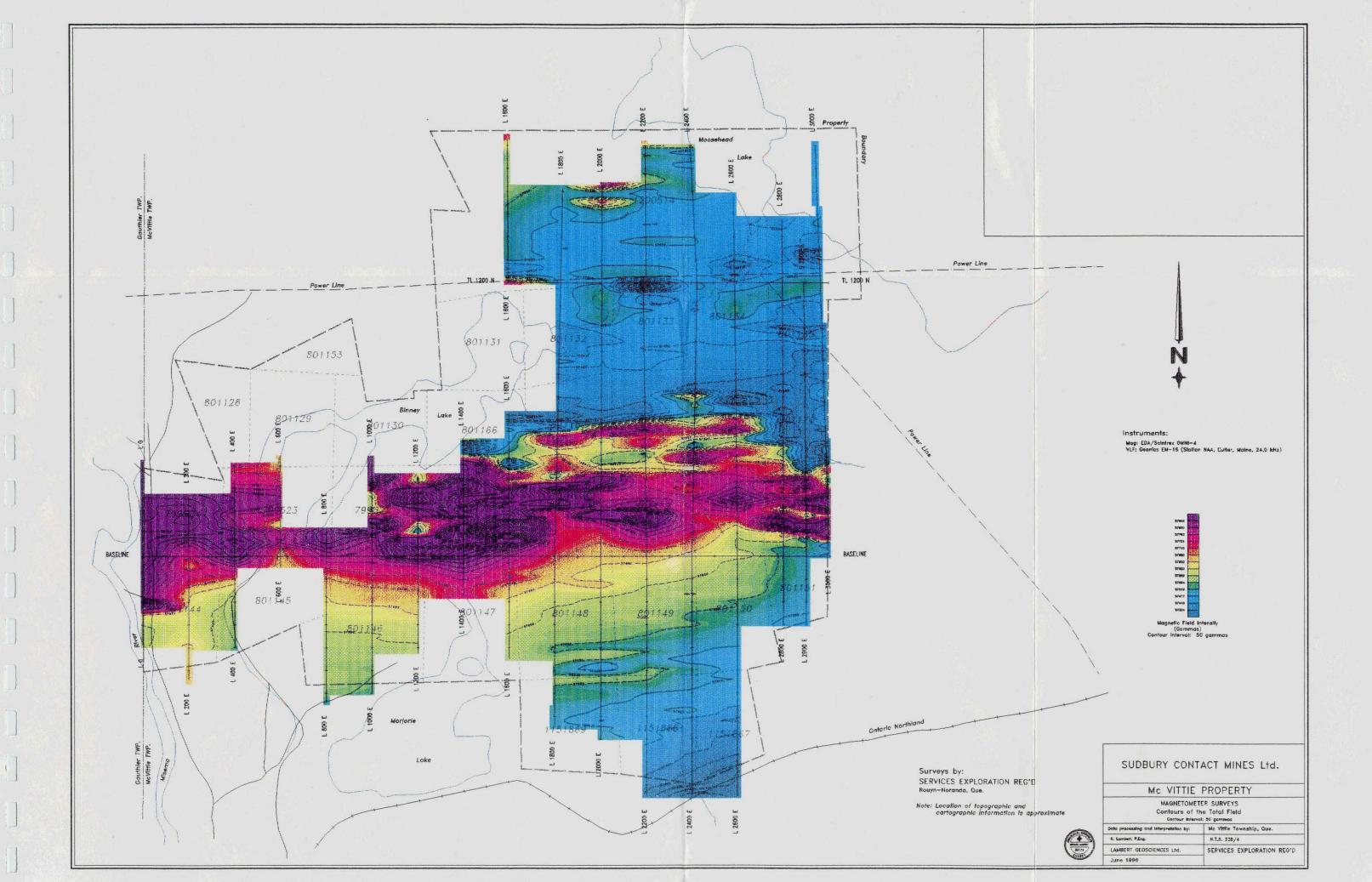












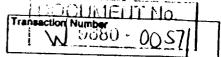
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Ministry of Northern Development and Mines

# **Report of Work Conducted** After Recording Claim



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**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 Lande, 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 Recorder.

  - A separate copy of this form must be co - Technical reports and maps must accom
  - A sketch, showing the claims the work is

2 690 Time ¢ 900

Lugentran Union	(8)			
	CONTACT MINES LTD.	SKEAN HUNNING ITN	Client No. 198617	194897
I VOKONT	HUI BAY ST. P.D. BOX 102	P.O. Box 865, 28 Forzh ST.	Telephone No. 416-947-	1217
LARDEN	2 LAKE	P.O. BOX 865, 28 FORD ST. BAULT STE. MARIE, ONT., PLA SNB Township/Area Mc VITTIE	705-949- M or G Ptan No.	4250
Dates Work Performed	From: JULY 1, 1996	To: JULY 15,	G-3163	
			116	1

# Work Performed (Check One Work Group Only)

L	Work Group	Туре
۴	Geotechnical Survey	
	Physical Work, Including Drilling	Struggerender und VET-EM Surveys
	Rehabilitation	RECEIVED
	Other Authorized Work	DEC 3 - 1996
	Assays	
	Assignment from Reserve	MINING LANDS BRANCH

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

14.451.00

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)

E. CHARTRÉ	Address
	765 BOUL QUEBEC C.P. 4128
SERVICES ANTIONATION ENR	ROUYN-NORANDA, QUEBEC' J9X 504
	ALL
1	
A - MA	
attach a schedule if assesses	

h a schedule if necessary)

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

by the current recorded holder.	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.	ork Dete Recorded Holder or Agent (Signature)	
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# **Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the its completion and annexed report is true.	e work or witnessed same during and/or other
Internet and Address of Person Cartifying	
DAVID W. CHRISTIE, #1401-141 ADELAIDE ST. W., TORON	NTO DUTARIO MEN 345
Telepone No. 416-364-2895 Nov 15, (146 Certified By (Signature)	A
For Office Use Only	NT/
Total Value Cr. Recorded Date Recorded IMining Recorder	
and 96 novis	Received Stamp RECEIVED
Oppl. Parts 5545 Dete Notice for Amendments Sent Dete Sent	LARDER LAKE MINING DIVISION
122595 Date Notice for Amendments Sent	
241 (00/031)	NOV 18 1996

Total Reserve	Total Assigned	Total Value	Total Value Work		Total Number	
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	<i>SC</i>	400 ×	, 8ch		801135 4	-
	)	400 1	333 `		801134 -	
	- 54	400 -	475 ·	•	80/133 -	
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		400 '	× 08E		-5es66	<b>0</b>
	1	400 1	, 085	1.	799522-	6
Reserve: Work to be Claimed at a Future Date	Value Assigned from this Claim	Value Applied to this Claim	Value of Assessment Work Done on this Claim	Number of Claim Units	Claim Number (see Note 2)	Work Report Applying Reserve

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 ( $\sim$ ) one of the following:

1. 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.  $\Box$  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.		

														2		7			Work Report Number for Applying Reserve
Total Number of Claims	34	12005/4-	1/5/869-	1157868-	1151867-	801175-	- 441108	801173-	801172-	- 141108	~07/108	-691108	801168-	- + 91108	· 801166-	4801153	801151-	9 801150 -	Claim Number (see Note 2)
		0.			\ .•			\ ·		/ •	•	-	/ .		•	<b>_</b>	1.	- ,	Number of Claim Units
Total Value Work	14451	16250	238 .	4281	190 .	333 `	, <i>38</i> 0	380 ,	/90 ,	· 54h	571.	, 06/	330 '	380 '	143.	0	, 8CH	, 085	Value of Assessment Work Done on this Claim
Total Value Work Applied	9588	١	238	, 8eh	, 06/	)	1	ļ	Ì	1	١	)	1	١	ł	400 -	400 '	- 400 -	Value Applied to this Claim
Total Assigned	2214		1	1		30 think	howmen		)	1	156 -	1	1	)	]	1	- 80	1	Value Assigned from this Claim
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# Note 2: If work has been performed on patented or leased land, please complete the following:

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



# 2.16906

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.

## 1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees	Type	8941.00	
Droits de l'entrepreneur et de l'expert-	Mag + VLF Survey W.A. Hubacheck Management Fee Type	4664.00	
conseil Supplies Used	Management Fee	408.76	14,013,76
Fournitures utilisées	Map Reproduction	160.00	
Equipment Rental	Туре		1.00.00
Location de matériel			
	Total Dir Total des coû	ect Costs ts 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 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.
- 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.

I am authorized

that as (Recorded Wolder, Agent, Position in Company)

to make this certification

recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registr des concessions minières. Adresser toute quesiton sur la collece de ce renseignements au chef provincial des terrains miniers, ministère d Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbur (Ontario) P3E 6A5, téléphone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sor

## 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.

Туре	Descri	ption	Amount Montant	Totals Total global
Transportation Transport	Туре			
				1
Food and Lodging Nourriture et hébergement				
Mobilization and Demobilization Mobilisation et démobilisation				
	Sub To Total partiel	tal of India des coûts		
Amount Allowable ( Montant admissible	(not greater than (n'excédant pai	20% of Dir 20% des (	ect Costs) coûts directs)	
Total Value of Asse (Total of Direct and J indirect costa)		Valeur tota d'évaluatio (Total des co et indirecte a	úts directs	

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	RECEIVED
Attestation de l'état des coûts	DEC 3 - 1996
J'atteste par la présente : que les montants indiqués sont le pl dépenses ont été engagées pour effe sur les terrains indiqués dans la formu	ctuer les travaux d'évaluation
Et qu'à titre de	je suis autorisé occupé dans la compagnie)
à faire cette attestation.	

Nota : Dans cette formule, forsqu'il désigne des personnes, le masculin est utilisé au sens neutre

Ministry of Northern Development and Mines

January 21, 1997

Roy Spooner Mining Recorder 4 Government Road East Kirkland Lake, ON P2N 1A2

Dear Sir or Madam:

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

Submission Number: 2.16906

Status
Subject: Transaction Number(s): W9680.00571 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.

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

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau\_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

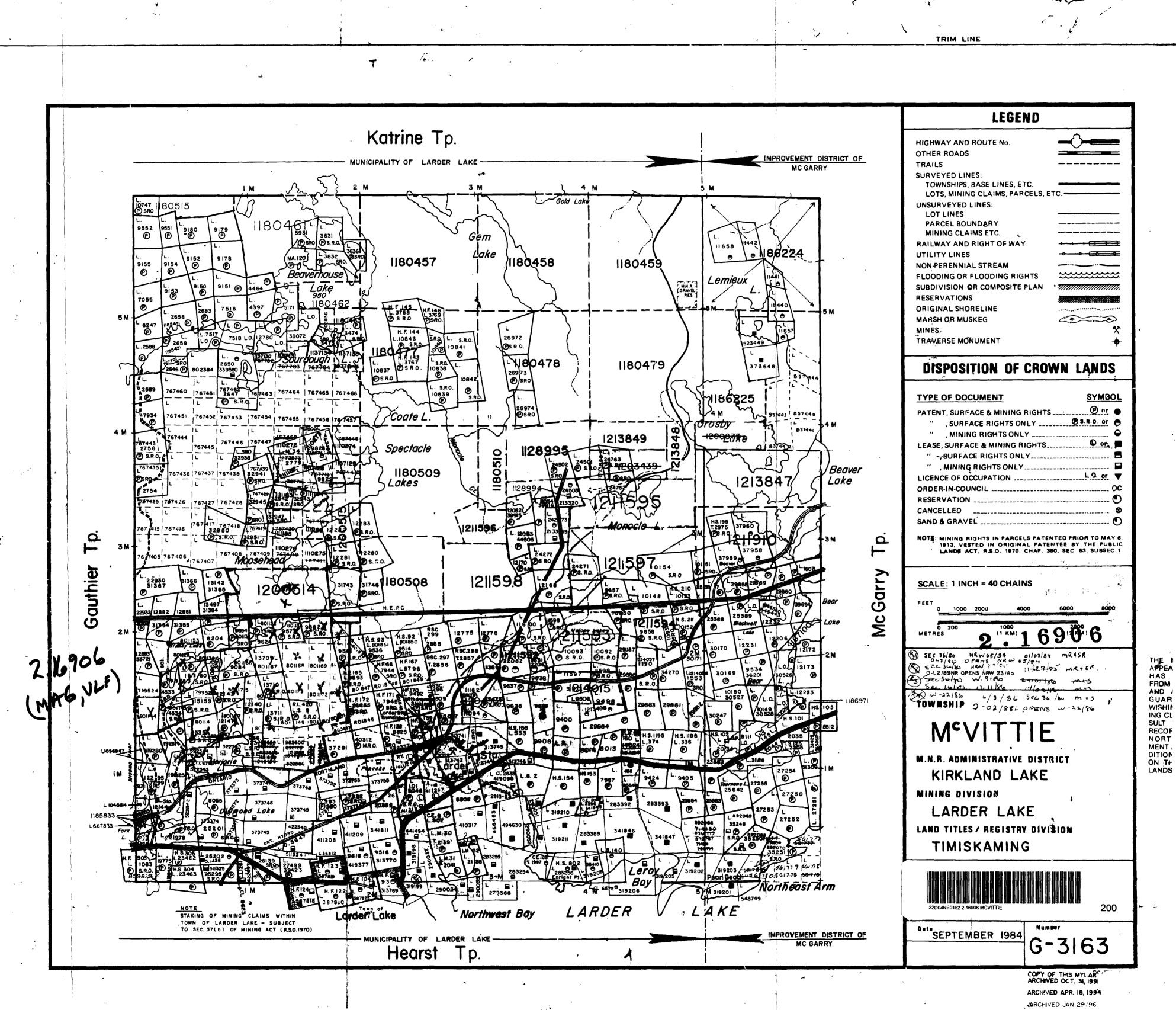
mcchil.

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

Correspondence ID: 10498 Copy for: Assessment Library

# Work Report Assessment Results

Date Correspon	dence Sent: Ja	nuary 21, 1997	Assessor: Steve	Beneteau
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9680.00571	799522	MCVITTIE	Approval	January 20, 1997
Section: 14 Geophysical M/ 14 Geophysical VI				
Correspondence	e to:		Recorded Hole	der(s) and/or Agent(s):
Mining Recorder Kirkland Lake, ON	١		David W. Christi TORONTO, ONTAF	
Resident Geologist Kirkland Lake, ON			SUDBURY CONT/ TORONTO, Ontari	ACT MINES LIMITED
Assessment Files Sudbury, ON	: Library		,	



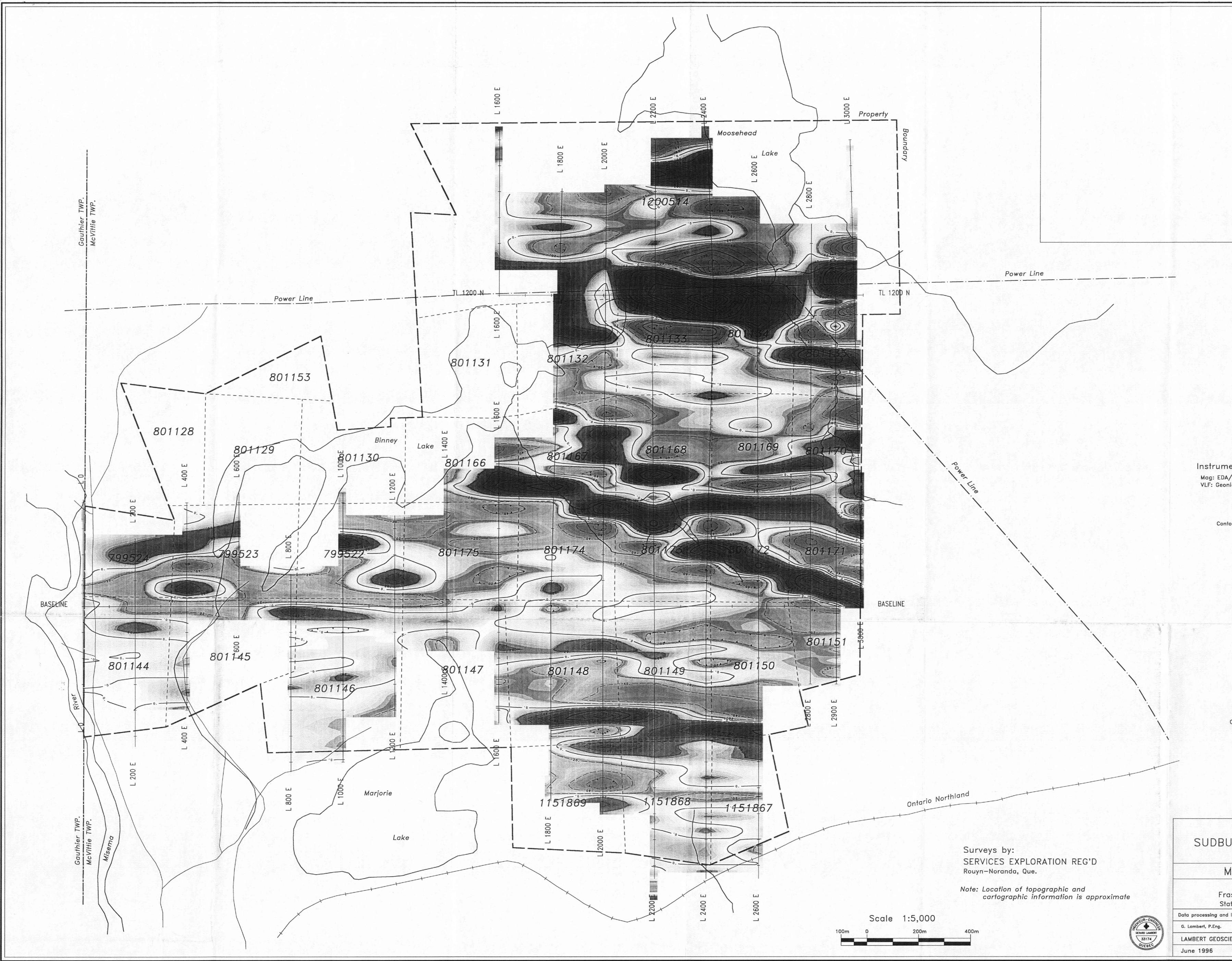
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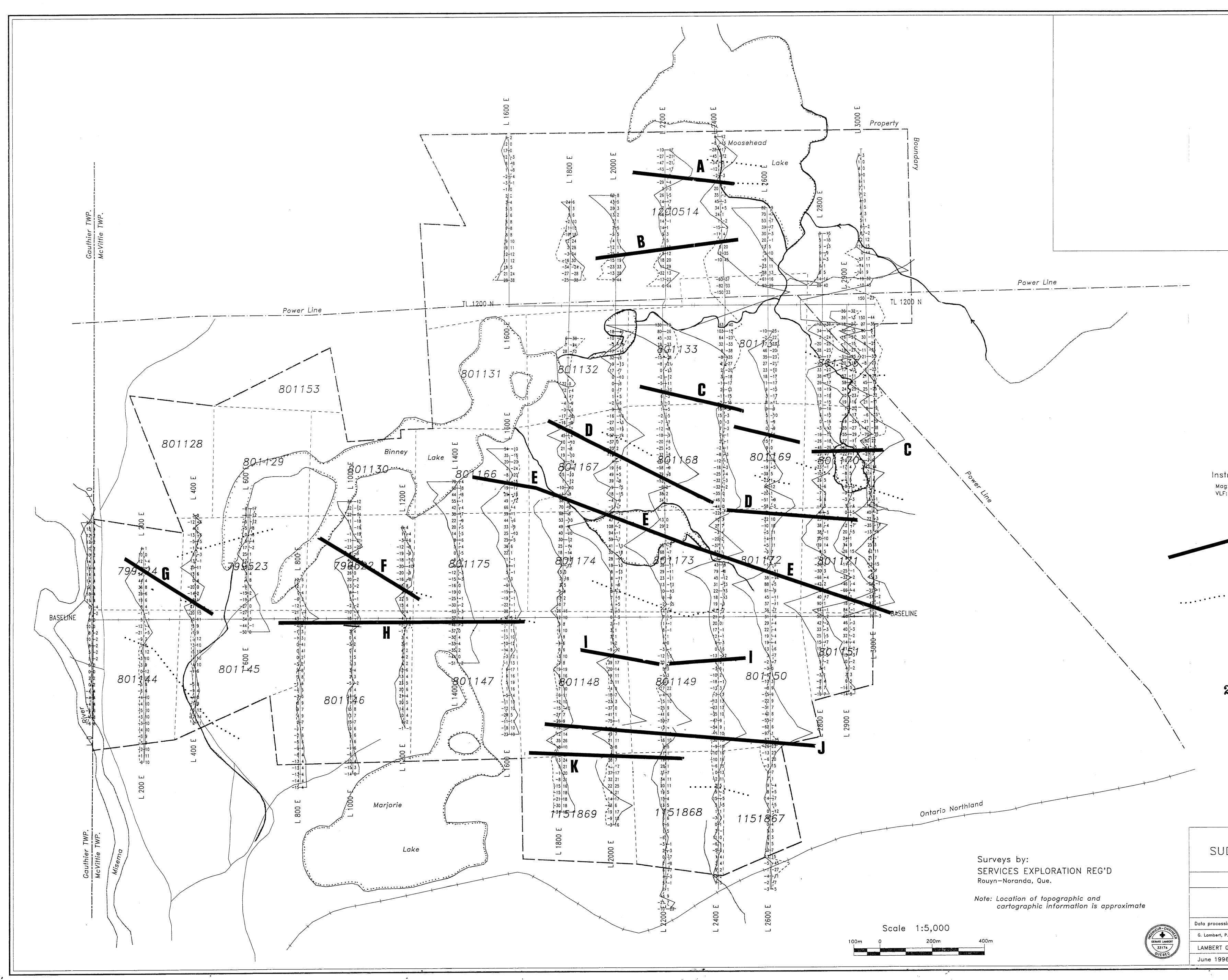


ents: /Scintrex OMNI-4 hics EM-16 (Station N	AA, Cutler, Maine, 24.0 kHz) units	
64.0 44.9 33.3 25.0 17.9 10.9 4.8 -1.3 -7.4 -14.4 -21.5 -29.8 -41.4 -60.6 Fraser-filtered In-F (Fraser units) Contour interval: 20	경험을 다 전화적 가장 그렇는 것 같아요. ^^ ]	
JRY CONTACT MINES Ltd.		
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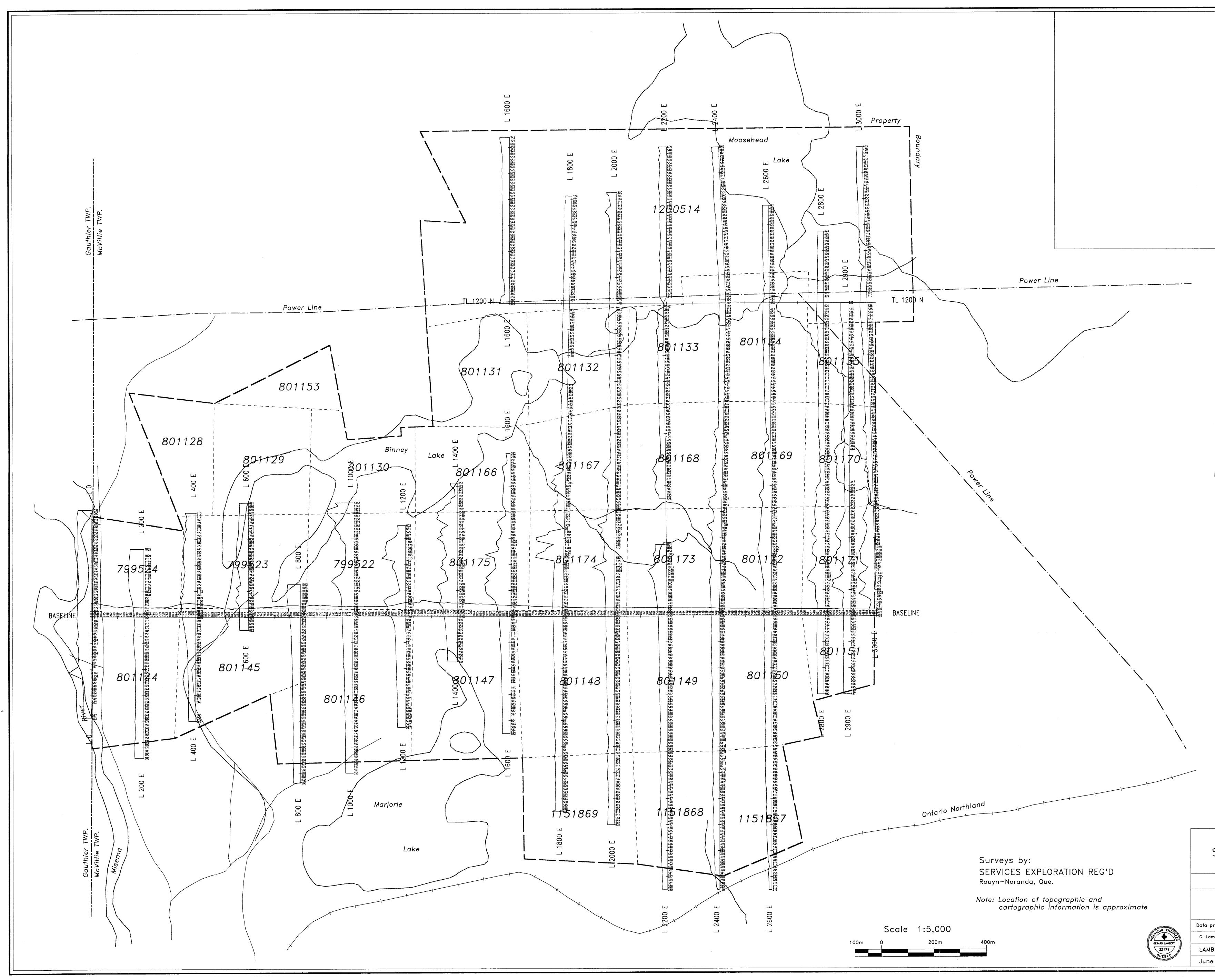
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ients:	
/Scintrex OMNI-4	NAA, Cutler, Maine, 24.0 kHz)
tour interval: 20 Fras	er units
64.0 44.9 33.3	
25.0 17.9 10.9	
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-7.4 -14.4 -21.5	MINING LANDS BRANCH
-29.8 -41.4	
-60.6 Fraser-filtered In-	
(Fraser units Contour interval: 2	
32D04	INE0152 2.16906 MCVITTIE 220
JRY CONTA	ACT MINES Ltd.
Ac VITTIE I	PROPERTY
V.L.FE.M.	
	Maine, 24.0 kHz Mc Vittie Township,
	N.T.S. 32D/4
CIENCES Ltd.	SERVICES EXPLORATION REG'D Scale 1:5,000

Scale 1:5,000



nstruments:	
Mag: EDA/Scintrex OMNI-4 VLF: Geonics EM-16 (Station	NAA, Cutler, Maine, 24.0 kHz)
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causes possi	,
••••• connected m	phides, poorly netallic grains), or bedrock shears and
fractures, ov	verburden-filled oughs and valleys).
IN-PHASE QUADR.	ATURE
2.1690	
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SUDBURY CONTA	ACT MINES Ltd.
Mc VITTIE F	PROPERTY
V.L.FE.M.	SURVEY
In—Phase and Quc Station NAA, Cutler,	-
ocessing and Interpretation by:	Mc Vittie Township,
ERT GEOSCIENCES Ltd.	N.T.S. 32D/4 SERVICES EXPLORATION REG'D
1996	Scale 1:5,000





Mc VITTIE PROPERTY		
MAGNETOMETER SURVEYS		
Profiles of the Total Field		
processing and Interpretation by:	Mc Vittie Township,	
ambert, P.Eng.	N.T.S. 32D/4	
BERT GEOSCIENCES Ltd.	SERVICES EXPLORATION REG'D	
e 1996 Scale 1:5,000		

SUDBURY CONTACT MINES Ltd.

# 32D04NE0152 2.16906 MCVITTIE

2.16906

Profile Scale: 1cm=1000 gammas Profile base: 57,000 gammas Add 57,000 gammas to posted values

Instruments: Mag: EDA/Scintrex OMNI—4 VLF: Geonics EM—16 (Station NAA, Cutler, Maine, 24.0 kHz)



