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JUN 06 1997

MINING LANDS BRANCH

2.17373

VLF-EM SURVEY

OKA 4 PROPERTY

Powell Township
Sedex Mining Corp.



May 1997

010

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VLF-EM profiles with posting



41P15NE0029 2.17373 POWELL

1.0 INTRODUCTION:

In May of 1997, a program of linecutting and geophysical surveys was carried out on the Oka 4 Property held by Sedex Mining Corp., 21 Goodfish Rd., P.O. Box 1146, Kirkland Lake, Ontario P2N 3M7. The work was executed and reported on by David Laronde of Meegwich Consultants Inc., P.O. Box 482, Temagami, Ontario POH 2HO.

A total of 8.475 km of grid line establishment was done from a 1000 metre long baseline running at an azimuth of 060 degrees for control. The entire grid was surveyed with VLF.

2.0 **PROPERTY**:

The 48 hectare property in Powell Twp. consists of 4 contiguous claims numbered as follows:

1206571 1206572 1206573 1206574

3.0 LOCATION AND ACCESS:

The property is situated 400 meters east of Little Hawley Lake, 4.0 km north-northwest of the town of Matachewan, Ontario, which is 50 km west of Kirkland Lake.

The property can be accessed by walking from a secondary road originating from Hwy 566 (near Ryan Lake) about 5 km northwest of Matachewan.

This road heads northeast coming to with 250 meters of the northwest corner of the claim group.

4.0 VLF-EM SURVEY:

A total of 7.475 km (340 readings) was surveyed with a station spacing of 25 meters on lines spaced at 100 meters. NAA Cutler, Maine was used as the transmitting station at 24.0 kHz.

4.1 Instrumentation: A Geonics VLF EM-16 receiver was used for the survey. This instrument measures, to an accuracy of +/- 1%, the inphase and quad-phase components of the vertical magnetic field as a percentage of the horizontal primary field.

4.2 Survey Results: The results are presented on profile plans at 1:2500 scale.

The survey outlined 4 conductors with northeast trends that are briefly described as follows:

Conductor A: A moderately strong conductor that peters out on both ends. Strongest response on L 600 E. High priority.

Conductor B: Weak, continuing off grid, easterly trend. High priority.

Conductor C: Short, weak response. Area was trenched before.

Medium priority.

Conductor D: One line anomaly, very weak. Low priority.

5.0 GEOLOGY:

The property is underlain by Archean mafic to intermediate volcanic rocks. A northeast trending fault cuts the claim group in half. The gold mines 3 km to the south also have a northeast trending lineament near the shaft area. A syenite intrusive comes down to the north perimeter of the property. Carbonate and asbestos are mapped on the property near the fault.

The western extension or Matachewan Branch of the Larder-Cadillac Break passes within 2.5 km from the south boundary of the property.

The surrounding greenstone geology off the claim (3.0 km south) contains the prolific Young-Davidson Mines which produced 585,690 ounces of gold from 1934 -1957 and the Matachewan Consolidated Mine which produced 370,427 ounces of gold from 1934-1954.

6.0 CONCLUSIONS AND RECOMMENDATIONS:

In conclusion, the pattern of conductors outlined may all be part of a northeast trending fault and/or associated shear zone. Conductor C has been trenched in the past.

There is a possibility of sulphide mineralization associated with the faulting/shearing zone. Carbonate is present near Conductor C.

Recommended Follow-up Work:

Phase One: Magnetometer survey and mapping. Outline geology and structure.

Phase Two: Two lines of I.P. are recommended as follow-up work on these conductors. L 700 and 800 E (all of line) would test all four anomalies for disseminated mineralization.

Respectfully submitted,

David Laronde Qual # 3.83 B Geology Engineering Technologist

References

1964 Ontario Department of Mines - Geology of Powell and Cairo Townships - Map 2110

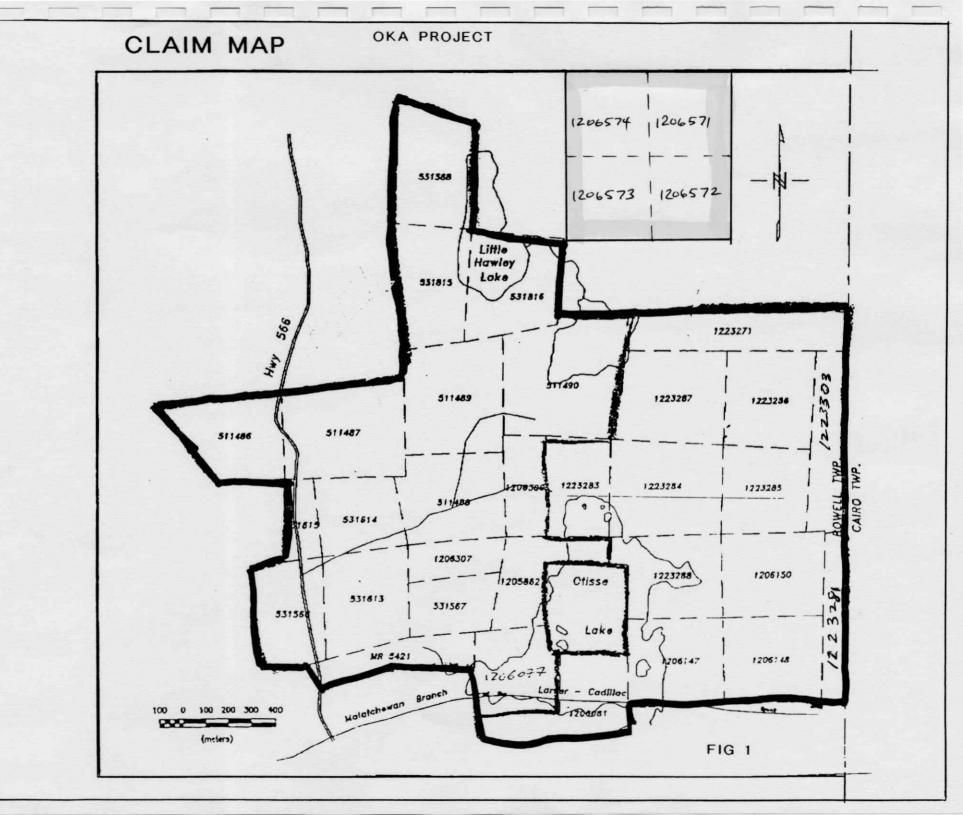
1967 H.L. Lovell - Geology of Matachewan Area - GR 51

CERTIFICATE OF AUTHOR

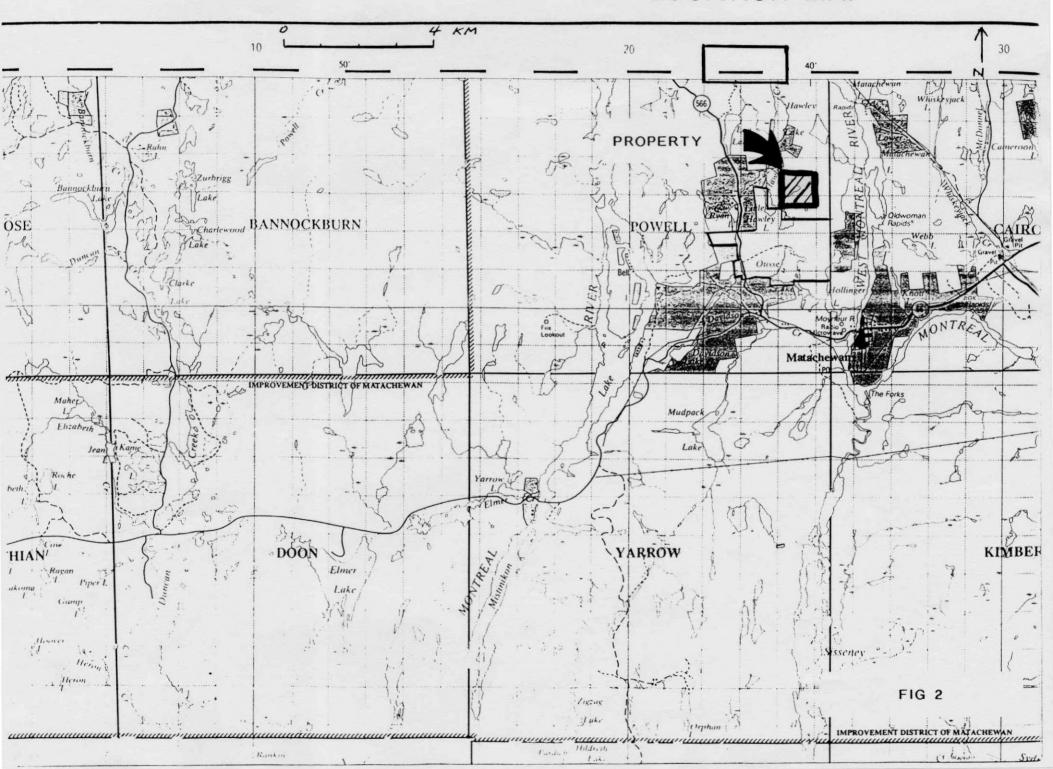
- I, David Laronde of the town of Temagami, Ontario hereby certify:
- 1. That I am a consulting technologist and have been engaged in my profession for the past 18 years.
- 2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.
- 3. That my knowledge of the property described herein was acquired by field work and documentation.

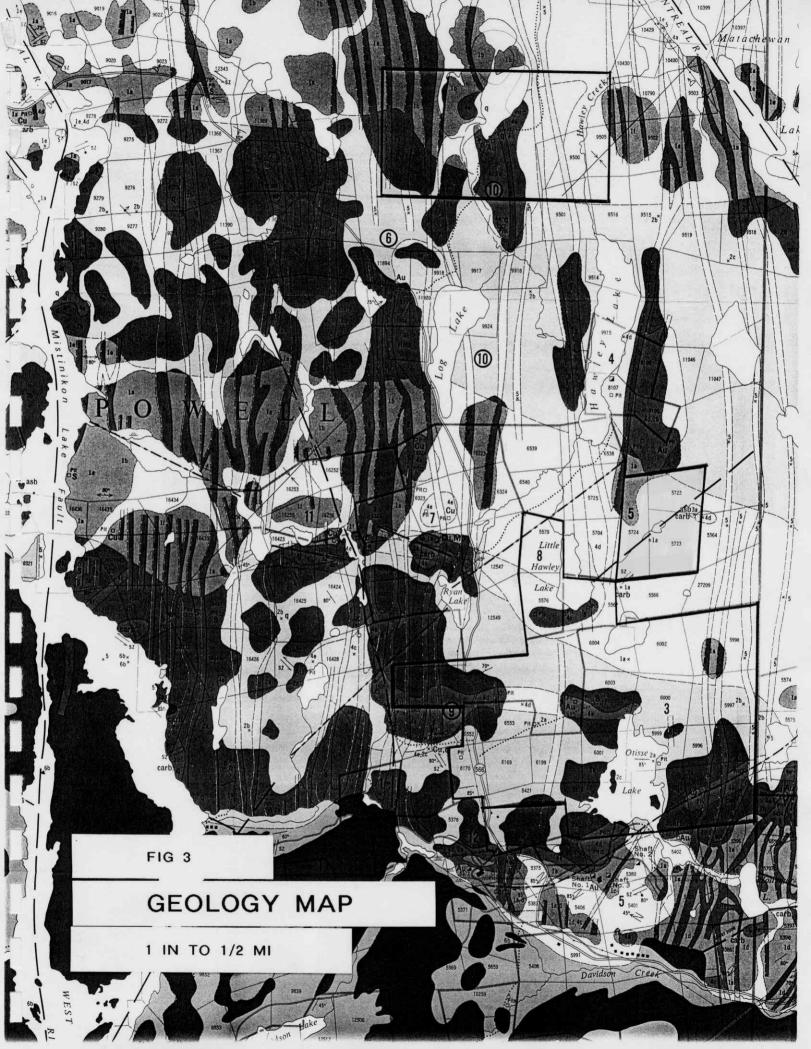
Dated at Temagami this 30th day of May 1997.

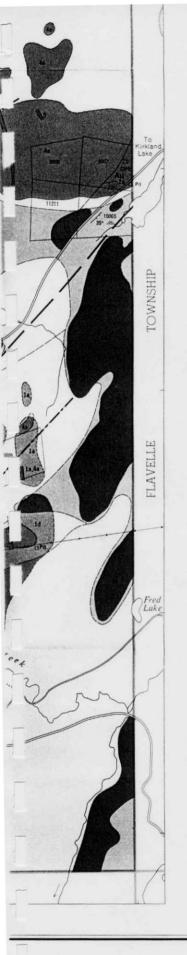
David Laronde



LOCATION MAP







LEGEND

CENOZOIC*

RECENT

Swamp and stream deposits

PLEISTOCENE

Sand, gravel, clay.

UNCONFORMITY

PRECAMBRIAN**

PROTEROZOIC

MAFIC INTRUSIVE ROCKS (Nipissing)



7 Diabase.

INTRUSIVE CONTACT

HURONIAN

COBALT GROUP

Gowganda Formation



6a Argillaceous and arkosic quartzite. 6b Conglomerate. 6c Argillite.

6d Arkose

UNCONFORMITY

ARCHEAN

MAFIC INTRUSIVE ROCKS (Matachewan)



5 Diabase, undifferentiated.

INTRUSIVE CONTACT

SILICIC INTRUSIVE ROCKS



4a Granite.

4b Granodiorite and granitic gneiss.

46 Syenite.
46 Mafic syenite and lamprophyre
4e Syenite porphyry and coarse-grained syenite.
4f Quartz diorite and diorite.

INTRUSIVE CONTACT

ULTRAMAFIC AND MAFIC INTRUSIVE ROCKS (Haileyburian)



3a Serpentinite. 3b Diorite.

INTRUSIVE CONTACT

SEDIMENTARY ROCKS (Timiskaming)



2a Conglomerate.

2b Greywacke, interbedded argillite and quartzite.

2c Arkose.

UNCONFORMITY

VOLCANIC ROCKS

(Keewatin)



1a Basalt and andesite. 1b Bleached, silicified, sericitized volcanic rocks.

canic rocks.

1c Andesite porphyry.

1d Tuff (banded, and massive types).

1e Agglomerate.

1f Rhyolite and dacite.

1g Carbonatized and amygdaloidal rocks.

1h Amphibolite.

Asbestos. asb

Au Gold.

Barite. ba

carb Carbonate.

Copper Cu

Magnetite mag

Molybdenum.

Ni Nickel.

Quarty

EM16 SPECIFICATIONS

MEASURED QUANTITY Inphase and quad-phase components

of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt

angle and ellipticity).

SENSITIVITY Inphase: ±150%

Quad-phase: ± 40%

RESOLUTION ±1%

OUTPUT Nulling by audio tone. Inphase indication from mechanical inclinometer

and quadphase from a graduated dial.

OPERATING FREQUENCY 15-25 kHz (15-30 kHz optional) VLF

Radio Band. Station selection done by

means of plug-in units.

OPERATOR CONTROLS ON/OFF switch, battery test push

button, station selector switch,

audio volume control, quadrature dial.

inclinometer.

POWER SUPPLY 6 disposable 'AA' cells.

DIMENSIONS 53 x 21.5 x 28 cm

WEIGHT Instrument: 1.8 kg

Shipping: 8.35 kg

CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°c. Warranty does not cover inclinometers damaged by such exposure. Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

900

Personal informs Mining Act, the is Questions about 933 Ramsey Lak

0241 (02/96)



Tou: OtiSSE North
) and 66(3) of the Mining Act. Under section 8 of the
ent work and correspond with the mining land holder.
I of Northern Development and Mines, 6th Floor,

Instructions: - Please type or print in ink.	a craim, use form 0240.	
Recorded holder(s) (Attach a list if necessary)	2.17373	3
Tom Obradovich / 2973090 Canada Ir	Client Number VC 177382/300	337
P.O. Box 1146	(705) 567-68	
	Fax Number	
KIRKLAND LAKE ONTATIO PZN3M7	(705) 567- 69	5+2
Address	Telephone Number	
	Fax Number	· · · · · · · · · · · · · · · · · · ·
2. Type of work performed: Check (→) and report on only ONE	E of the following groups for this	declaration.
Geotechnical: prospecting, surveys. Physical: de	rilling, stripping, and associated assays	Rehabilitation
Work Type	Office Use	
VLF-EM	Commodity	· · · · · · · · · · · · · · · · · · ·
·	Total \$ Value of Work Claimed	
Dates Work Performed From 28 04 97 To 27 05 97 Day Month Year Day Month Year	NTS Reference	
Global Positioning System Data (if available) Township/Area	Mining Division	
M or G-Plan Number	Resident Geologist District	
 provide proper notice to surface rights holder complete and attach a Statement of Costs, for provide a map showing contiguous mining law include two copies of your technical report. 	s before starting work; orm 0212; nds that are linked (2) assigning	
3. Person or companies who prepared the technical report (At	ttach a list if necessary).	1997
Name () D C C C C C C C C C		SBRANCH
Address D. Laronde	(705) 569 - 2904 Fax Number	<u> </u>
P.O. Box 482 Temagami, Ont POH 2HC	705) 569-281	<u>+</u>
Address	Fax Number	7.9
Name	Telephone Number	אלול און
Address	Fax Number) La 13
•		
4. Certification by Recorded Holder or Agent	Ţ.	
1. Larry J. Stolike do hereby certif	y that I have personal knowledge	e of the facts set
forth in this Declaration of Assessment Work having caused the work or after its completion and, to the best of my knowledge, the annexe	k to be performed or witnessed t	
Signature of Recorded Adder or Agent	Data .	2107
	one Number Fax Number	3/97
P.D. Box 1146, KIRKLAND LAKE, ONT PONSHT FOR	5-567-6883 567-	1873

Deemed Sept. 1

re mirling land where work was performed, at the time work was performed. A map showing the contiguous link nust accompany this form. Bank. Value of work aning Claim Number. Or if Number of Claim Value of work Value of work Value of work to be distributed applied to this ork was done on other eligible Units. For other performed on this assigned to other claim or other kning land, show in this mining land, list mining claims. at a future date. claim. 7 slumn the location number hectares. mining land. dicated on the claim map. \$24,000 \$2,825 **TB 7827** N/A \$26, 825 eg 16 ha 0 1234567 \$24,000 өg 12 \$4,892 \$ 4,000 0 1234568 \$ 8, 892 eg 2 8 177 7.00 1 B1777 L-1206571 1 2 1206572 777.00 3 1 1777 777.00 1206573 4 ١ 1777 1777.00 -1206 574 5 6 7 8 9 10 11 12 13 14 JUN (16 1997 15 MINING LANDS BRANCH \$ 7108 Column Totals & 7108 Larry J. Stoliker _, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to he claim where the work was done. ignature of Recorded Molder or Agent Authorized in Writing June 03/97 3. 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 rou wish to prjoritize 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 Date Notification Sent Deemed Approved Date 30 8 114 E MUL 78 DISTAIG STITE.

Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining

Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

-	Transaction	Number	(office	use)	
1	ĺ				

TOH: Otisse North

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 8/96. Under section 8 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 collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

				, o, e o
Work Type	Units of Work Depending on the type of work, list of hours/days worked, metres of d metres of grid line, number of sam	rilling, kilo-	Cost Per Unit of work	Total Cost
Line cutting-one	u chief: 156.5	hrs	\$15 perhr	\$ 2347.50
05st	idents: 13	days	Blooaday	2600.00
YLF	22.56	rs	815 puhr.	337.50
Associated Costs (e.g. supplies	mobilization and demobil	ization).		
Ŧ	evant Rental 12	laus	A Souter	\$850.00
Digitize data, basen		,	,	
and Map Produ	restime			633.45
Field and Report Pre		1/2 day	\$200	100.00
TION WINE TRANSPORTER	Process of the second	9		
Transp	ortation Costs			
Tri	ick Rental 17 d	ays	\$ 50 perday	850.00
	(2210km) Gas	•	, 4	240.00
Food a	nd Lodging Costs	REC	EIVED	
		JU	N 0 6 1997.	
	Tot	al MMUHO	LANDE BREAKONO K	\$7108.45

Calculations	of	Filing	Discou	ınts:
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Jaiculations of Filing Discounts:		
 Work filed within two years of performance is clair If work is filed after two years and up to five years Value of Assessment Work. If this situation applie 	s after performance, it ca	an only be claimed at 50% of the Total
TOTAL VALUE OF ASSESSMENT WORK	× 0.50 =	Total \$ value of worked claimed
Work older than 5 years is not eligible for credit. A recorded holder may be required to verify expendequest for verification and/or correction/clarification. Ainister may reject all or part of the assessment work.	If verification and/or cor	
Certification verifying costs: Larry J. Staliker, do her	eby certify, that the amo	ounts shown are as accurate as may

easonably be determined and the costs were incurred while conducting assessment work on the lands indicated on

ne accompanying Declaration of Work form as Haut (recorded holder, agent, of state company position with signing authority)

make this certification.

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines



October 14, 1997

THOMAS JOHN ELI OBRADOVICH P.O. BOX 1146 KIRKLAND LAKE, Ontario P2N-3M7

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

Telephone: (888) 415-9846 Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17373

Status

Subject: Transaction Number(s):

W9780.00593 Approval After Notice

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.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gates_b@torv05.ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.17373

Date Correspondence Sent: October 14, 1997

Assessor:Bruce Gates

Transaction

First Claim

Number

Township(s) / Area(s)

Status

Approval Date

W9780.00593

1206571

POWELL

Approval After Notice

October 10, 1997

Section:

Number

14 Geophysical VLF

The 45 days outlined in the Notice dated August 26, 1997 have passed.

Assessment work credit has been approved as outlined on the attached Distribution of Assessment Work Credit sheet.

Correspondence to:

Resident Geologist

Kirkland Lake, ON

Assessment Files Library

Sudbury, ON

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

Larry J. Stoliker

KIRKLAND LAKE, ONTARIO, CANADA

THOMAS JOHN ELI OBRADOVICH

KIRKLAND LAKE, Ontario

2973090 CANADA INC. KIRKLAND LAKE, ON

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: October 14, 1997

Submission Number: 2.17373

Transaction Number: W9780.00593

Claim Number	<u>Value (</u>	Of Work Performed
1206571		1,141.00
1206572		1,141.00
1206573		1,141.00
1206574		1,140.00
	Total: \$	4,563.00

