

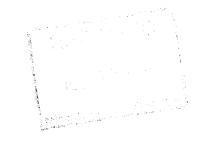
GEOPHYSICS REPORT

ON THE

GEORDIE LAKE PROPERTY

FOR

TOTEM SCIENCES INC.



3mg 3 2. 12/200

DAN PATRIE EXPLORATION LTD. Dan Patrie March 31, 1997



2D16SW0045 2.17470 SEELEY LAKE

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Thunder Bay Mining Division

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INTRODUCTION

A total of 64 unpatented mining claims were acquired by Totem Sciences Inc., in the central portion of the Hemlo-Schreiber greenstone belt. The property owners recommended that geophysics program be carried out, and work commenced in March of 1997.

The property lies near the center of a multi phase intrusion, the Coldwell Alkaline Complex, the largest alkaline complex in North America, never studied extensively.

In summary, the Geordie Lake property warrants further exploration in order to evaluate its potential to host economic precious metal mineralization.

Dan Patrie Exploration Ltd., was requested by Brian Fowler and Mike Shuman, the property owners, of Marathon, Ontario, to carry out a program of line cutting and an Induced Polarization survey to better define the potential of the claim units.

This report summarizes the obtained results from the work carried out during the recommended program.

Respectfully submitted,

Oa fate

Daniel F. Patrie

Geology and Geophysics Technologist

March, 1997

SUMMARY AND RECOMMENDATIONS

The Geordie Lake property is located in the central portion of the Hemlo-Schreiber

greenstone belt, of the Thunder Bay Mining Division, Thunder Bay, Ontario. Which consists of

64 unpatented, contiguous mining claims, straddling the Seeley Lake and Grain Township map

areas.

The writer was requested by Totem Sciences Inc., to do a geophysics program on said

property. The following report summarizes the information obtained from the program, and

recommends further work to determine the economic potential of the property.

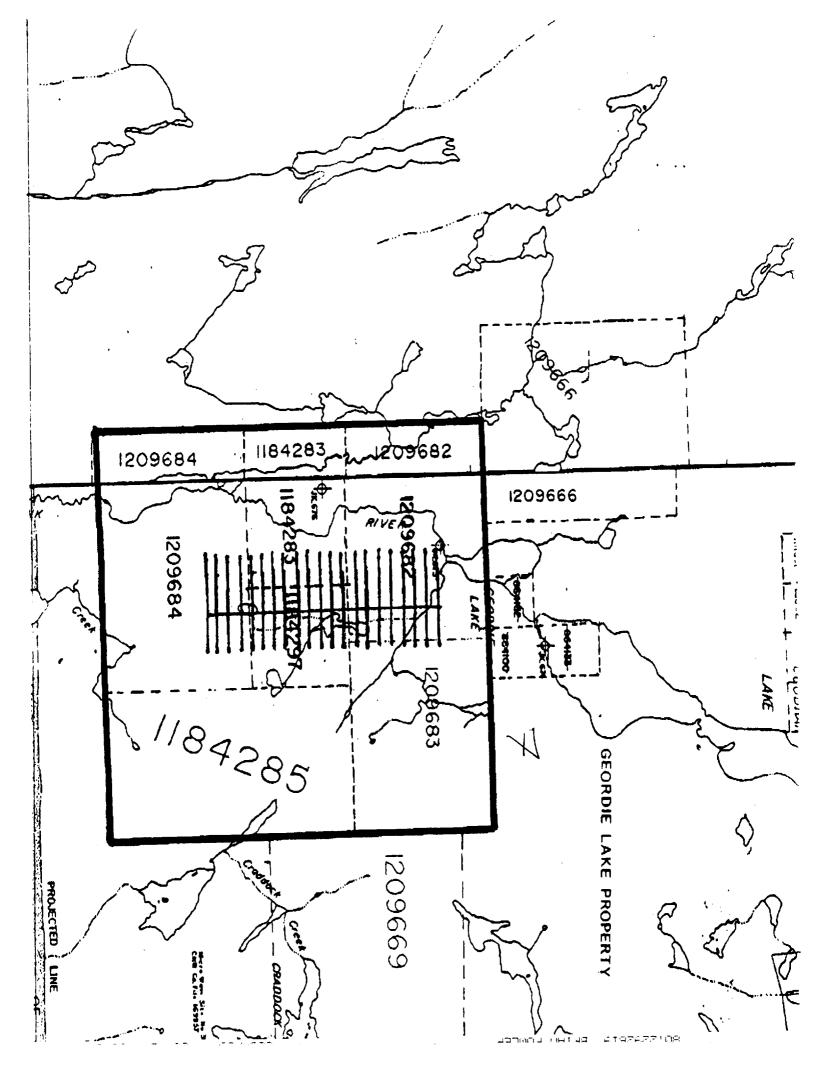
Respectfully submitted,

Da Pob

Daniel F. Patrie

Geology and Geophysics Technologist

March 31, 1997



LOCATION AND ACCESS

The Geordie Lake property consists of 64 unpatented units located in the central portion of the Hemlo-Schreiber greenstone belt. The claims straddle the Seeley Lake (G-613), and Grain Township(G-628), in the Thunder Bay Mining Division. The property can be reached by travelling 15 km west of Marathon, Ontario, and north on a secondary road for a distance of 9 kms.

INSTRUMENTATION AND WORK DONE

The Pole Dipole Induced Polarization survey was done using a MG-2 moter generator and a Pheonix transmitter with an IPR 12 Time Domain Receiver made by Scintrex of Canada Ltd. The readings were taken along picket lines at 50 meter intervals with an A spacing 50 meters and four levels read 1 to 4, and stored in the receiver in the field and then downloaded to a computer for data manipulation and plotted in pseudosections with Geosoft Mapping Software. A total of 11 km of linecutting, and 9 km of Induced Polarization was read over the Geordie Lake property and plotted and is presented in the back of report. All data was stored on diskette in Geosoft Plot Files.

PROPERTY GEOLOGY

The property is located near the center of a multi phase intrusion, known locally as the Coldwell Alkaline Complex. Even though this roughly circular complex id the largest alkaline complex in North America, it has not been studied in any great detail, especially from a metalogenic or economic point of view. The area is host to a variety of felsic intrusive rocks which are intruded by altering layers of troctolite and olivine gabbro. The felsic intrusive rocks

consist of alki-feldspar quartz syenite, potassium-feldspar porphyry, ferro-augite syenite and trachyte dykes. Alteration increases in intensity at the gabbro-syenite contact.

The most significant mineralization observed on the property occurs within a gabbro body in a zone composed of 1 to 8 % chalcopyrite, pyrrhotite, bornite, covellite and chalcocite. Eight to ten percent coarsely disseminated ilmenite and titaniferous magnetite also occurs within this zone. This Cu-Pd-Pt-Ag-Ti rich sulphide zone has been mapped over 1500 meters in length and averages approximately 15 meters in width. The mineralized zone occurs within a potassically altered alkaline gabbro directly adjacent to a gabbro/quartz syenite contact, within the Coldwell Alkaline Complex.

RECENT WORK

Analytical results received by St. Joe Gold in 1986 from 300 grab and channel samples show that Cu, Pt, Pd, Au, Ag, Fe and Ti all increase very dramatically near the eastern gabbro/syenite contact. Analyzes of selected grab samples from the gabbroic rock with disseminated sulphide indicate values up to 1.73% copper, 394 ppm nickel, 110 ppb platinum, 2130 ppb palladium, 220 ppb gold and 7 ppm silver. In the chalcopyrite-bornite-magnetite-rich stringers, values run as high as 32.3% copper, 1050 ppm nickel, 4250 ppb platinum, 2775 ppb palladium, 1080 ppb gold and 112 ppm silver. Drilling by the company in 1987, (757 meters over eight holes), delineated a zone between 3 meters and 35 meters wide. Four of the holes drilled exhibited mineralization into the syenite. DDH#7 intersected mineralized 12 meters into the syenite, with the last 3 meters running 0.63% Cu, 397 ppb Pd and 0.8 ppm Ag. Highlights of St. Joe's drill program were:

Hole #2 - 0.973% / 7.67 meters

Hole #7 - 0.619% / 3.85 meters

Hole #3 - 1.213% / 6.00 meters

Hole #8 - 0.808% / 5.71 meters

Hole #4 - 0.954% / 7.72 meters

(All values listed as equivalents)

Hole #5 - 0.475% / 6.25 meters

Airborne magnetic surveys performed by St. Joe Canada have successfully traced the extent of the mineralized horizon over a strike length of 2500 meters. Several other zones with a similar magnetic response were also delineated. As a result of this work IP-EM coverage over the mineralized contact zone was recommended, in addition to a second phase diamond drill hole program. Unfortunately, the company reorganized and the property was dropped due to a new focus on gold-only properties. In a summary report prior to dropping the property, St. joe made the following conclusion, "There is a possibility that the gabbro body represents a megaxenolith." This hypothesis has not yet been tested.

In addition to the potential noted above, recent staking has tied on to the Geordie Lake property's north and east boundaries. These new claim blocks are owned by Coldwell Rare Metals, a private company owned by Complex Minerals Corp. Apparently, sampling of these prospects has provided assays of significant values in niobium, along with minor values in zirconium and cerium. Dr. Richard Sutcliffe, a director of Complex Minerals Corp., will direct exploration on the properties using a unique Rare Earth Element exploration model and theory which he has developed over several years of research.

The most recent work which was organized by the current property owners, Mike Shuman and Brian Fowler, consisted of a trenching program. The objective of the trenching program was to test the potential for parallel zones west of the main mineralized zone.

Trenching was performed using a Schaeff HS40C Superhoe owned by and operated by Belham Led. A total of six trenches, totaling 625 meters, were put down on the property over the period August 17 - 25 1996. A John Deer D4 dozer owned and operated by Martineau Contracting was used for repairs to the secondary road and to skid the back-hoe to the trench location and back out to Highway 17.

A Beep Mat was used to locate areas of high magnetics. A total of three new zones were found that had not been previously sampled nor drill tested. Although samples taken from these new zones contained over lower copper values than the main zone (Joa showing), it does not suggest that the gabbroic intrusive could host further zones across strike that could have richer mineralization.

INTERPRETATION

The induced polarization on the Geordie Lake Property showed very encouraging results. There is a very broad high chargeability zone across the property from line 0+00 to line 10+00 S centered along north of the base from at 1+75 E from line 6+00 S to line 10+00 S. This area would be a very good drill target for further exploration.

The chargeability values for the anomaly is well above background values and is consistent with metallic mineralization. The bulk resistivity values also correspond to a mineralized target (200 ohms-m). Background values between 2 mV/V and 5 mV/V are caused by electrolytic polarization as opposed to the combination of electrolytic and electrode polarization in the case of metallic mineralization, The resistivity plots show bulk resistivity corresponding to bedrock values. Before drilling any geophysics targets there should be an evaluation of all of data from the property to establish a proper drill program. The results of the survey are considered to be encouraging and in view of the potential of the property and lack of full coverage of this survey, the rest of the claim group being surveyed is recommended.

RECOMMENDED EXPLORATION PROGRAM

The following program is recommended to evaluate the property for its potential to host a precious metal deposit.

- Complete the line cutting a required to provide a control for geological, geochemical and geophysical work.
- 2. Geochemical sampling over target areas before drilling.
- 3. Magnometer and VLF-EM survey.
- 4. Detailed Induced Polarization.
- 5. Geological mapping.
- 6. Stripping, trenching and sampling over areas.

As a result of encouraging data from the recently completed geophysics survey additional exploration on the property is recommended.

Daniel F. Patrie Geology and Geophysical Tecchnologist March 28, 1997

PERSONNEL

- 1. Dan Patrie Walford, Ontario
- 2. Brent Patrie Elliot Lake, Ontario
- 3. Bryan Patrie Spanish, Ontario
- 4. J.P. Paradis Massey, Ontario
- 5. Donald Whalen Marathon, Ontario
- 6. R.J. Rivers Walford, Ontario
- 7. Frank Pilon Spanish, Ontario

CERTIFICATE OF QUALIFICATION

I, Daniel F. Patrie, do hereby certify that:

- I am a Geology and Geophysics Technologist and reside at 190, Highway 17 West,
 Massey, Ontario, Canada, P.O. box 45, P0P 1P0
- 2. I graduated from Cambrian College of Applied Arts ans Technology with a one year certificate in Geophysics,
- I have practiced my profession continuously since that time and prior to that, since 1972,
 I have been an active prospector,
- 4. This report is based on a personal review of Provincial, Federal and some assessment reports as well as interpretation of field observations undertaken on the Geordie Lake property, Seeley Lake and Grain Township, Thunder Bay Mining Division, Ontario and was present during the program,

Daniel F. Patrie

Geology and Geophysics Technologist

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March 28, 1997

LETTER OF CONSENT

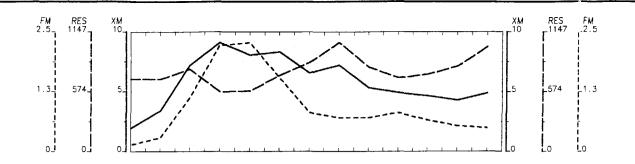
I, Daniel F. Patrie, of Massey, Onatrio, do hereby cosent to Totem Sciences Inc., using in whole or in part, my report on the Geordie Lake property in prospectus of statement of material facts or for filing with government regulatory bodies as deemed necessary.

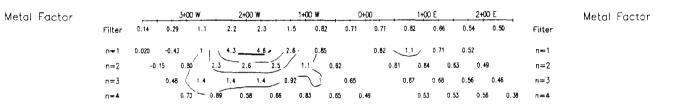
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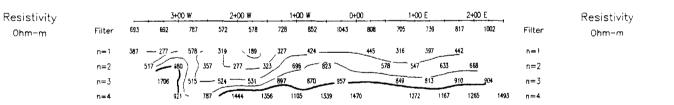
Dated at Massey, Ontario, this 31st day, 1997, in the district of Sudbury.

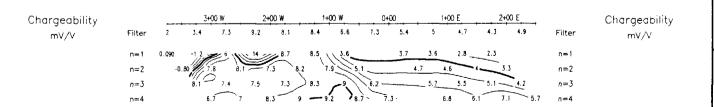
Daniel F. Patrie

Geologist and Geophysics Technologist

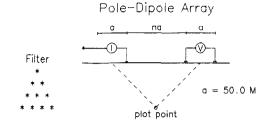








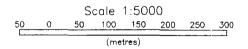
Line 300 S



Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- Low resistivity feature.

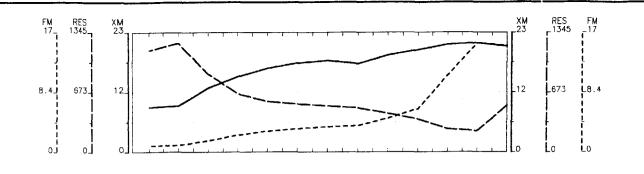


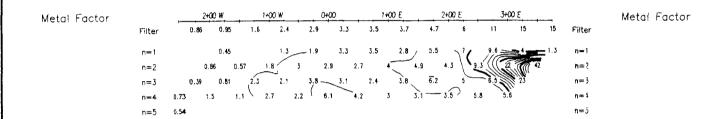
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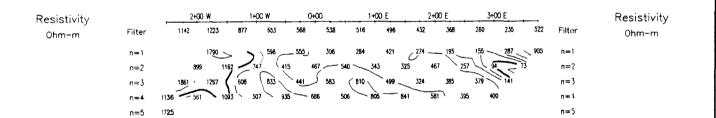
Date: 97/06/27 Interpretation: DAN PATRIE

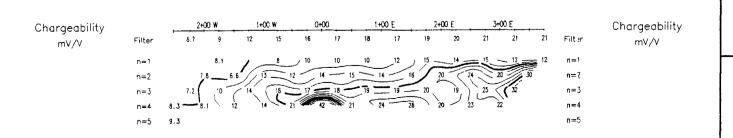
DAN PATRIE EXPLORATION



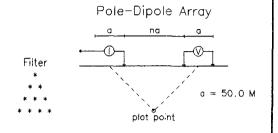








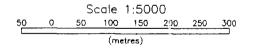
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Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

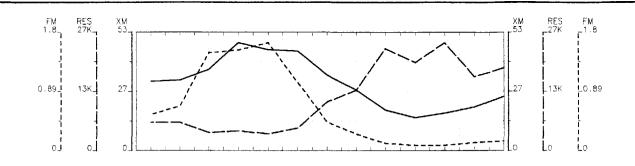
INTERPRETATION

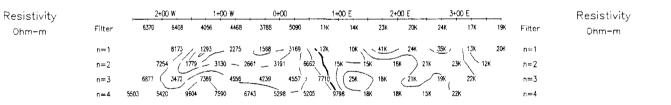
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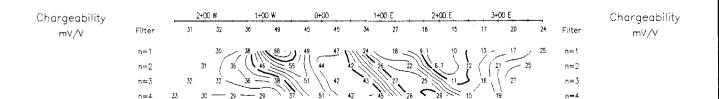


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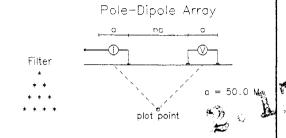
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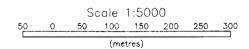
Line 0



Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

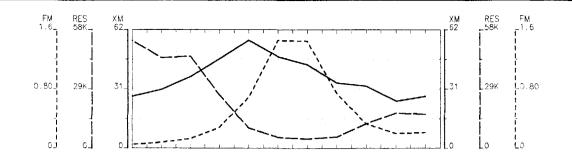
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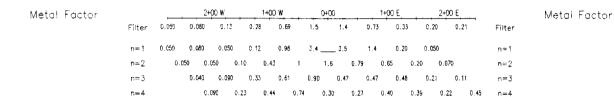


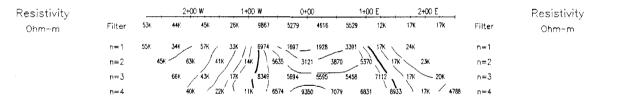
TOTEM SCIENCES INC.
INDUCED POLARIZATION SURVEY
GEORDIE LAKE PROPERTY
INDUCED POLARIZATION

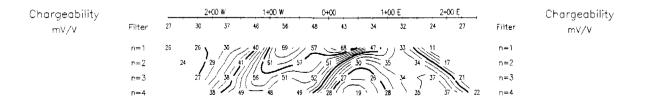
Date: 97/04/05 Interpretation: DAN PATRIE

DAN PATRIE EXPLORATION

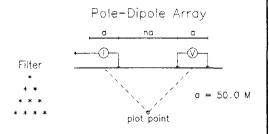








Line 100 S



Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

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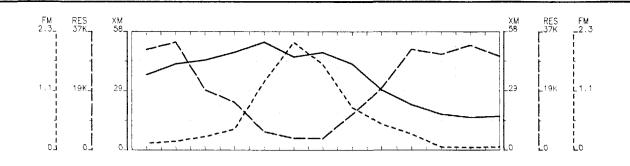
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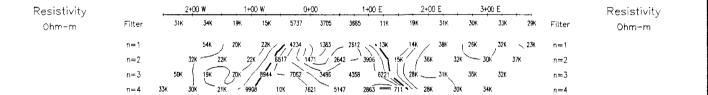
GEORDIE LAKE PROPERTY INDUCED POLARIZATION

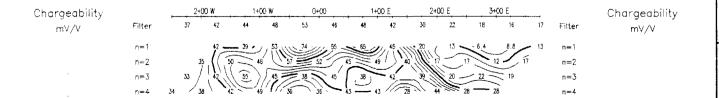
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Interpretation: DAN PATRIE

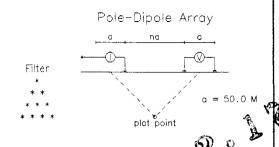
DAN PATRIE EXPLORATION







Line 200 S

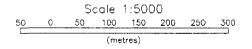


Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

Metal Factor

INTERPRETATION

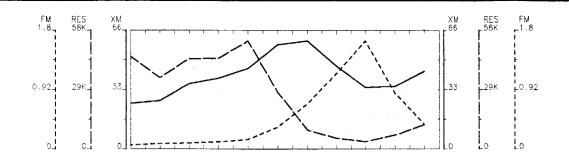
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TOTEM SCIENCES INC. INDUCED POLARIZATION SURVEY GEORDIE LAKE PROPERTY INDUCED POLARIZATION

Date: 97/04/05 Interpretation: DAN PATRIE DAN PATRIE EXPLORATION

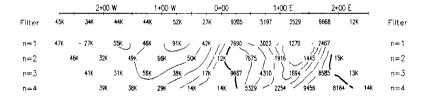




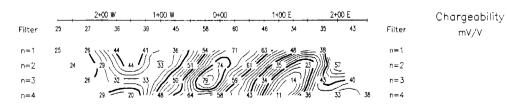
Metal Factor

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n=1	0.050	0.10	0.080	0.090	0.040	0.13	0.93	2.1 3.8	1.5	n=1
n=2	0.0	350 0.0	90 0.0	0.0	50 0.10	0 0.63	0.80	1.8	1.6 0.39	n=2
n=3		0.060	0.10	0.060	0.13	0.45	0.61	0.78 0.81	0.50 0.31	n=3
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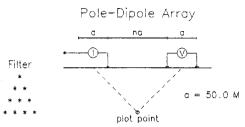
Resistivity Ohm-m



Chargeability mV/V



Line 400 S



Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

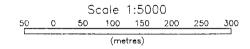
Metal Factor

Resistivity

0hm-m

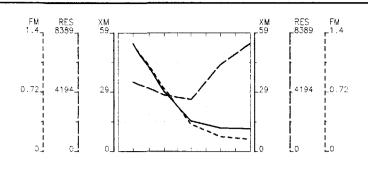
mV/V

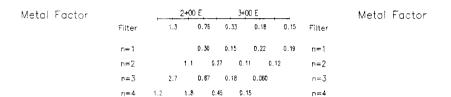
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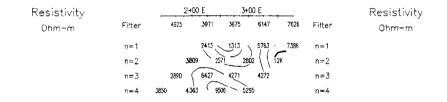


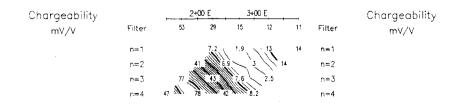
TOTEM SCIENCES INC. INDUCED POLARIZATION SURVEY GEORDIE LAKE PROPERTY INDUCED POLARIZATION

Date: 97/04/05 Interpretation: DAN PATRIE DAN PATRIE EXPLORATION

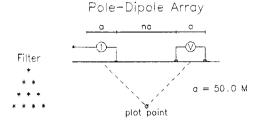








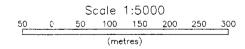
Line 600 S



Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

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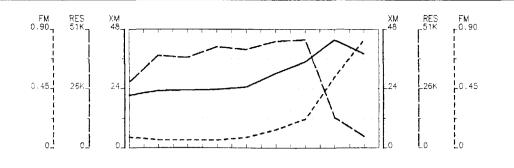
TOTEM SCIENCES INC.
INDUCED POLARIZATION SURVEY
GEORDIE LAKE PROPERTY
INDUCED POLARIZATION

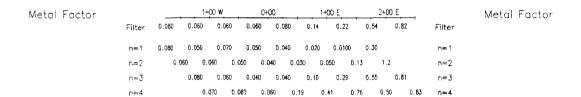
Date: 97/04/05 Interpretation: DAN PATRIE

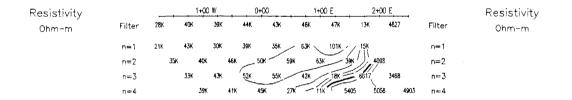
DAN PATRIE EXPLORATION

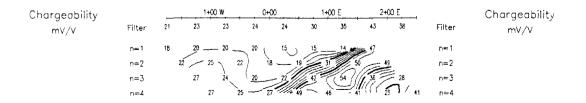
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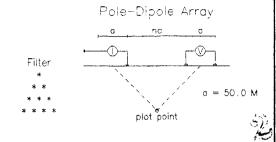








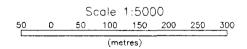
Line 800 S



Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

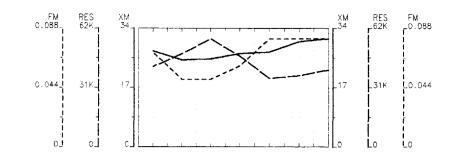
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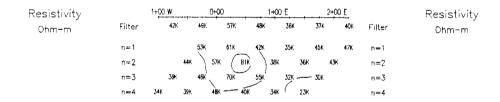
TOTEM SCIENCES INC. INDUCED POLARIZATION SURVEY GEORDIE LAKE PROPERTY INDUCED POLARIZATION

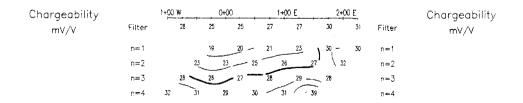
Date: 97/04/06 Interpretation: DAN PATRIE

DAN PATRIE EXPLORATION

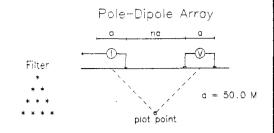


Metal Factor		1+00 W	0+00	1+00 E	2	+00 E		Metal Factor
	Filter	0.070 0.	050 0.050	0.060 0.0	80 C.080	0.080	Filter	
	n=1	0.0	040 0.030	0.050 0.00	60 0.070	0.860	n=1	
	n=2	0.050	0.040 0.0	30 0.070	0.070 0	.080	n=2	
	n=3	0.070 0.0	060 0.040	0.050 0.09	90 0.090		n=3	
	n=4	0.10 0.089	0.060 0.0	70 0.090	0.17		n = 4	





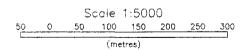
Line 1000 S



Logarithmic 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- Low resistivity feature.



TOTEM SCIENCES INC. INDUCED POLARIZATION SURVEY GEORDIE LAKE PROPERTY INDUCED POLARIZATION

Date: 97/04/06 Interpretation: DAN PATRIE

DAN PATRIE EXPLORATION

2.





Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 65(3), R.S.O. 1990

Transaction Number (office use)

W9740-718

Assessment Files Research Imaging

Personal information collected Mining Act, the information Questions about this collegs 33 Ramsey Lake Road, S



3) of the Mining Act. Under section 8 of the and correspond with the mining land holder. hern Development and Mines, 6th Floor,

42D165W0045 2.17470 SEEL	(M)	n iesi	900
Instructions: - For v		ording a	a claim, use form 0240.
- Please type or print in ink.			w
1. Recorded holder(s) (Attach a list if nee	cessary)	4 L	6480
Name Melvin ToA			Client Number 149183
73 YAWKEY STREET	REC	ENVEI	Telephone Number 867 - 229 - 1284
Marathon Ontario	1111 0	0 1000	Fax Number
Name		री १५५७/	Client Number
Address	LAND	SPEAN	Lelephone Number
			Fax Number
Observed Observed		ادعہ جارہ	
2. Type of work performed: Check ()		-	
Seotechnical: prospecting, surveys, assays and work under section 18 (regs	rnysical trenching		ssociated assays Rehabilitation
Work Type			Office Use
LINECUTTING - Induced Pe	lanzation	-	Commodity
			Total \$ Value of Work Claimed \$\\\ \psi /9, \\ 3/4
Day Month Year	To 10 03 9		NTS Reference
Global Positioning System Data (If available) Township	yArea DECY LAICE A	REA	Mining Division THUNDER BAY
M or G-F	lan Mamber 7-613		Resident Geologist District SCHEEBER - HEMUD
Please remember to: - obtain a work permit to - provide proper notice - complete and attach a - provide a map showing - include two copies of	to surface rights hold Statement of Costs g contiguous mining	ders bef , form 0 lands ti	ore starting work;
3. Person or companies who prepared th	e technical report	(Attach	a list if necessary)
Name		V III.	Telephone Number
Address Address	() L ()	 	705 - 844-2113
to Box 45 Masser	An Copy Popa	1Pa.	Telephone Number
emaN	ig with the claims in	k startin	un nou ou in oth this dr. 5 12
.d în this declaration, งา	ly over all channs field	Pho N	Fax Number Of Sing Libers
Name (Southbows (Southbo).	OPERACT ON THE ANACI	नियारक ज	Telephone Number 15 10 10 10 10 10 10 10 10 10 10 10 10 10
Address			Fax Number
			,
4. Certification by Recorded Holder or Ag	jent		
BRIAN TOWNE	2 . do hereby ce	rtify that	t I have personal knowledge of the facts se
(Print Name) forth in this Declaration of Assessment Work or after its completion and, to the best of my	having caused the w	ork to t	be performed or witnessed the same during
Signature of Recorder Holder or Again	^		Date 2/97
Agent's Address Par 962 Marath	CO Tel	ephone Nu	
Deemen Sept. 14/97	~ 1,570 .	807-	107-1414 801-201-2611

mining la column t	Claim Number. Or if so done on other eligible and, show in this he location number I on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.		e of work lied to this n.	Value of work assigned to other mining claims.	Bank. Value of wor to be distributed at a future date.
eg	TB 7827	16 ha	\$26, 825		N/A	\$24,000	\$2,825
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eg	1234568	2	\$ 8, 892		\$ 4,000	0	\$4,892
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Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

W9740-718

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. 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.

			•	
Work Type	Units of Work Depending on the type of work, list the nur of hours/days worked, metres of drilling, k metres of grid line, number of samples, et	ilo-	Cost Per Unit of work	Total Cost
LINE WITING	11 Kilometos		* 350	3850
Induced Polarization Reloar	11 Kilometos 9 Kilometos		4 1400	12600
Refer			\$ 1600.	1600
	,'			
	2.	7	Py .	
		7	7470	
Associated Costs (e.g. supplies,	mobilization and demobilization	1).		
	GSF			1264
			RECEIVE	D
Transpo	ortation Costs		JIII 0 8 100	
			\$Myre as	
	Although the group of the state		Sec.	МСН
Food ar	nd Lodging Costs			
	Total Val	A.O.	ဖြ ို့န်းခံရာsment Work g Division	19314
		1	1 6 1997	
Calculations of Filing Discounts:		L _	T	
 Work filed within two years of p If work is filed after two years a Value of Assessment Work. If the 	erformance is claimed at 100% o	nce,	above Total Value of A , it can only be claimed	at 50% of the Total
TOTAL VALUE OF ASSESSME	NT WORK × 0.50	3	Total \$ val	ue of worked claimed
Note: - Work older than 5 years is not eli - A recorded holder may be require request for verification and/or corre Minister may reject all or part of th	ed to verify expenditures claimed action/clarification. If verification a			
On All Parallel and the Land	•			
Certification verifying costs:	En, do hereby certify, that	the	amounts shown are as	s accurate as may
(please print full name) reasonably be determined and the	4			-
the accompanying Declaration of V	Vork form as	×1	GENT	l am authorized
to make this certification.	(recorded holder, agent, or	state d	company position with signing au	thority)

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines



October 24, 1997

MELVIN CLARENCE JOA P. O. BOX 819 73 YAWKEY AVENUE MARATHON, Ontario P0T-2E0 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: 2.17470

Status

Subject: Transaction Number(s): W9740.00718 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:

2.17470

Date Correspondence Sent: October 24, 1997

Assessor:Bruce Gates

Transaction Number

First Claim

Number

Township(s) / Area(s)

Status

Approval Date

W9740.00718

1209682

SEELEY LAKE

Approval After Notice

October 20, 1997

Section:

14 Geophysical IP

The 45 days outlined in the Notice dated September 5, 1997 have passed.

Assessment credit has been approved as follows:

6.6 km IP @\$1400/km \$ 9240

7.8 km LC @ \$350/km \$ 2730

Report

\$ 1600

\$13,570

GST

\$ 950

TOTAL

\$ 14,520

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

Correspondence to:

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

Resident Geologist Thunder Bay, ON

Brian Fowler MARATHON, ONTARIO

Assessment Files Library

MELVIN CLARENCE JOA

Sudbury, ON

MARATHON, Ontario

Distribution of Assessment Work Credit

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

Date: October 24, 1997

Submission Number: 2.17470

Transaction Number: W9740.00718

Claim Number	<u>Value (</u>	Of Work Performed
1209682		7,490.00
1209683		1,152.00
1209684		0.00
1184283		923.00
1184285		0.00
1184297		4,955.00
	Total: \$	14,520.00

