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GRID C14 EXTENSION CLIFFORD TOWNSHIP, ONTARIO LARDER LAKE MINING DIVISION NTS 32 D 5

REPORT ON

MAGNETIC SURVEY

RECEIVED

JUL 1 1 1986

A. JAMES WALKER, P. Eng.

.

MINING LANDS SECTION May 7, 1986



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ENCLOSURES

Grid C 14	Magnetic Survey	Contours	1:5000
	Magnetic Survey	Values	1:5000

INTRODUCTION

In March 1985 Walker Exploration Ltd. carried out a magnetic survey over 18 claims. Three additional claims on the east have been covered by this survey, as well as extra detail over a magnetic high on claim 803336. A new plan has been prepared to incorporate both the previous and new survey. The 21 claim group is located on the south township boundary and east of centre in Clifford Township, about 20 kilometers northeast of Kirkland Lake.

Linecutting was carried out in March 1986 by Jean Alix Co. Ltd., while the magnetic survey was made March 3, 1986 over approximately 16.6 kilometers of line, which includes repeating old lines at close station spacing.

The survey was carried out with an EDA PPM 300 total field proton magnetometer. An EDA PPM 400 base station magnetometer was used for diurnal control.

SUMMARY

The magnetic survey shows an east-west trend to the volcanics, with highest values over the mafic inntrusives on the easterly section of the grid. Some north-south faulting is likely, as indicated by offsets in the contoured magnetic values. The extra detail over previous work shows only slight changes in magnetic pattern.

PROPERTY

The 21 claim group is located in the south central part of Clifford Township (Claims 803325-803342 inclusive, 843426-843428 inclusive). The group is about 20 kilometers north-east of Kirkland Lake. Access is via a bush road that goes east from the Esker Lake Provincial Park road (about 5 kilometers).

PREVIOUS WORK

A magnetic survey was carried out by Canadex Mining Corporation Ltd. in 1972 covering the easterly 6 claims of the present survey. L. J. Cunningham, Consultant, reports several old pits and trenches were observed. Pyrite mineralization was observed near some magnetic lows, as well as rusty outcrops near a magnetic high. Some drilling by Mining Corporation is mentioned in Mr. Cunningham's report. GENERAL GEOLOGY - OGS Geoscience Report 132, Map 2283)

The claim group is mainly drift covered. East-west trending volcanics occur on the property, with intermediate to the south and felsic to the north. Outcrops of quartz gabbro and diorite are found on the east portion of the grid.

SURVEY METHOD

The magnetic survey was performed with an EDA PPM 300 magnetometer, measuring total field to 0.1 gammas. Diurnal control was made by using an EDA base station magnetometer (PPM 400) located on the Esker Lake road to the west. Other grids on this project are tied into this base station, so a common base level for all grids was established. The extension is tied in to the previous survey.

The magnetometer and base station have solid state memory for storage of values and location of stations read. The units are plugged together each evening and the computer programme allows for automatic diurnal corrections to field values. Corrected data was stored on cassette of an HP85 computer. Data is transferred to IBM compatible for final plotting on our in-house plotter.

Observations were made at 125 meter intervals on lines 125 meters (62.5 detail) apart. As well base line and tie lines

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were read. Values are plotted on a plan at a scale of 1:5000. Contours of values are plotted on a separate sheet at 25 gamma intervals.

SURVEY RESULTS

Contours of the values show a general east-west trend with low values to the west. Some isolated magnetic highs (200 to 600 gammas above background) occur to the east of lines 1875 East, and likely represent the mafic intrusive rocks. Offsets in the contour pattern suggest some north-south faulting.

CONCLUSIONS

The magnetic survey should provide a good base to relate previous exploration work and future activities such as prospecting and mapping, geochemistry and other geophysics such as VLF-EM.

Respectfully submitted, A. James Wawkerer P Eng. NOLINCE OF ONT

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SURVEY DATA

Grid Cl4 Clifford Township, Larder Lake Mining Division, Ontario. Geophysical Contractor - Walker Exploration Ltd. Covering Dates Linecutting - March 1986 Magnetic Survey - March 31, 1986 April 15-16, Drafting -May 7-8, 1986 May 7, 1986 Report ---Linecutting - 7.56 kilometers Line Coverage Magnetic Survey - 16.649 kilometers Readings Line Spacing - 125 meters & 67.5 meters Station Spacing - 12.5 meters Crew - Jean Alix Co. Ltd., Val D'Or, Quebec Linecutting Magnetic Survey - J. Tough, Bracebridge, Ontario D. Miles, London, Ontario R. T. Marcroft, Mississauga, Ontario Drafting T. J. Miles, Mississauga, Ontario - A. J. Walker, Mississauga, Ontario Field Report

Instruments

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Magnetic Survey

EDA PPM 300 Proton, Total Field Direct Reading, 0.1 Gamma Solid State Memory EDA PPM 400 Base Station Recorder



Ministry of Natural Resources

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Su	urvey(s)		Magnetometer	
••	or Area			
-	Claim Holder(s) Lac Minerals Ltd.			MINING CLAIMS TRAVERSED
		<u></u>		
Survey Con	mpany	···	Walker Exploration Ltd.	L843426
Author of	Report		A. James Walker	1.843477
Address of	Author	0 Huronta	ario St., Mississauga, On	L843428
Covering D	ates of Surv	/ey	March 1986 - May 7, 1986 (linecutting to office)	
Total Miles	s of Line Cu	t	4.663 Km (on 3 claims)	
	L PROVISIO S REQUES		DAYS Geophysical per claim	· · · · · · · · · · · · · · · · · · ·
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	40 days (inc ing) for first		-Magnetometer40	
survey.			-Radiometric	
ENTER	20 days for	each	-Other	
	al survey usi	ng	Geological	
same grid	1.		Geochemical	
AIRBORN	E CREDITS	Special prov	ision credits do not apply to airborne surv	:ys)
Magnetome	eter	Electromag	netic Radiometric	
	7 100		days per claim)	2
DATE:	ay 7, 1986	SIGN	ATURE: Author of Report or Age	
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Res. Geol		Quali	fications <u>63.2234</u>	
Previous Su			1	
File No.	Туре	Date	Claim Holder	
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•••••		•••••		TOTAL CLAIMS3

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

Number of Stations		187	Nur	mber of Readings	381	
	tation interval	12.5	Lin	e spacing	62.5 & 125	meter
	rofile scale					
	ontour interval					
Ŭ						
	Instrument	EDA PPM 300, H		ield		
Ę	Accuracy – Scale constant	Readout to ().l gammas			
1	Diurnal correction method.	Base Statin Re	ecorder, EDA PI	РМ 400		
MAGNETIC	Base Station check-in interv	al (hours)	ontinuous - 15	seconds		
-4	Base Station location and va	alue Of	f Esker Lake H	Road, just north	of	
		Highway 66 - 5			- ·	
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k	Instrument					
	Coil configuration					<u></u>
	Coil separation		······		· · · · · · · · · · · · · · · · · · ·	
	Accuracy					
	•	Fixed transmitter			🗔 Para	llel lir
	Frequency					
8	Parameters measured		(specify V.L.F. sta			
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	Instrument					
	Scale constant					
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	Base station value and locat					
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July 15, 1986

File: 2.9255

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

Dear Madam:

We received reports and maps on July 11, 1986 for a Geophysical (Magnetometer) Survey submitted under Special Provisions (credit · for Performance and Coverage) on Mining claims L 843426, et al, in the Township of Clifford.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

AB/mc

cc: Lac Minerals Ltd Royal Bank Plaza Suite 2105, North Tower P.O. Box 156 Toronto, Ontario M5J 2J4 Walker Exploration Ltd 10 Hurontario Street Mississauga, Ontario L5G 3G7

Mining Lands Section

File No 2.9255

Control Sheet

TYPE OF SURVEY GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

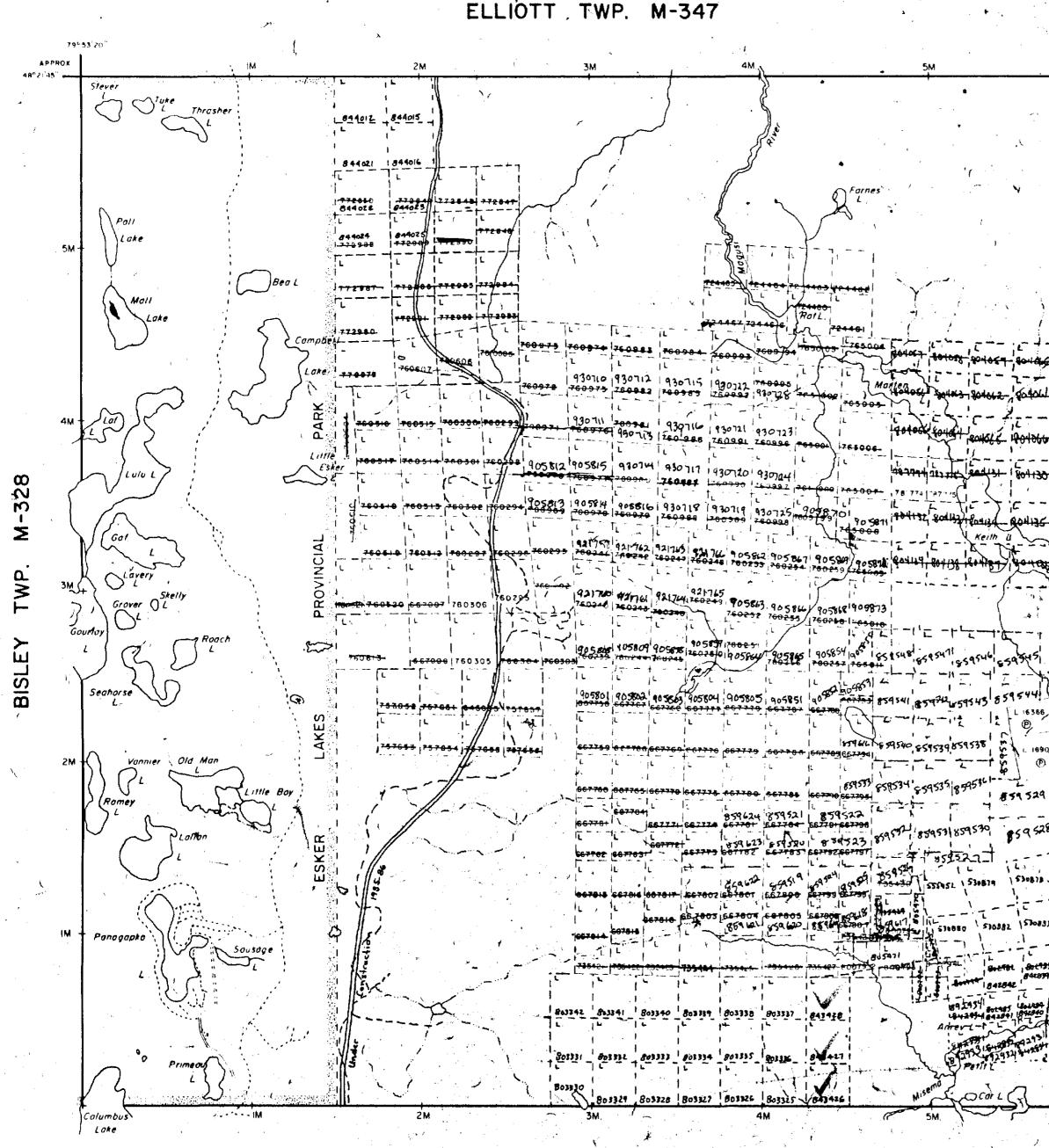
EXPENDITURE

MINING LANDS COMMENTS:

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Signature of Assessor

aug 19/86 Date





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ARNOLD TWP. M-321

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