

GRID BU-1 BUCKE TOWNSHIP, ONTARIO LARDER LAKE MINING DIVISION NTS 31 M5

REPORT ON

MAGNETIC SURVEY

RECEIVED

APR 1 9 1988

MINING LANDS SECTION

November 25, 1987

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A. JAMES WALKER P.Eng.

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31M05NE0010 2.11061 BUCKE

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ENCLOSURES

Grid	BU-1
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Magnetic Survey	7 -	Contours	1:5000
Magnetic Survey	7 –	Values	1:5000
Magnetic Survey	/ -	Profiles	1:5000

INTRODUCTION

Walker Exploration Ltd. carried out a magnetic survey over a 4 claim group located in the northwest part of Bucke Township, about 6 kilometers west of Haileybury.

Linecutting and chaining was done by John Adams and Gord Fitzgerald in October 1987. The magnetic survey was carried out October 28, 1987.

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

SUMMARY

The magnetic high across the north part of the grid suggests a southerly dipping mafic intrusive. An east-west fault is suggested by the contours in the central part of the grid.

PREVIOUS WORK

In 1982 Monpros Ltd. flew the area with magnetic and electromagnetic surveys (AERODAT). In 1984, ground magnetic and magnetic gradiometer surveys were carried out by Monpros Ltd. A drill hole just west of the lot line (4 & 5) and about 150 meters south of the Concession Line (5/6) was drilled by Monpros in 1984 and reached diabase below glacial clay.

GEOLOGY

The area is underlain by Gowganda sediments. A diabase sill outcrop occurs on the west part of the claims overlaying the sediments. Cobalt sediments occur in the east of the claim, and overlying Ordovician limestones occur to the northeast.

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 PPM 400 base station magnetometer, located on line 0 at 100S. Value of the station is 58,640.

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The field magnetometer and base station magnetometer have solid state memory for storage of values and locations of stations read. The instruments have built-in clocks which are synchronized each day. The units are plugged together each evening and the built-in computer programme in the base station allows for automatic diurnal correction of data collected. This corrected data was stored on the cassette of an HP85 computer in the field and later transferred to an IBM compatible computer.

Observations were made at 12.5 meter stations on lines with 100 meter spacing. Values are plotted on a plan at a scale of 1:5000. Contours of values are plotted on a separate sheet.

SURVEY RESULTS

Two parallel power lines cross the grid from the north to the south and interfere with the normal magnetic field for about 50 meters each side of the line.

The main feature of the contoured data shows a broad magnetic high (400 nT) across the north part of the grid trending east and suggests a southerly dipping mafic intrusive. An east-west fault is also suggested near the 4S tie line.

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CONCLUSIONS

The previous drill hole intersected diabase on the prominent magnetic high. The diabase may be part of the sill which occurs to the west, or else a separate intrusion.

Respectfully submitted,

a.f. Wall.

A. James Walker, P. Eng.

AJW:sb

Grid BU-1. Bucke Township, Larder Lake Mining Division, Ontario.

Geophysical Contractor - Walker Exploration Ltd.

Covering Dates	- Linecutting - October 22-26, 1 Magnetic Survey - October 28, 1987	
	Drafting - Oct. 30 - Nov. 5	, '87
	Report - November 25, 198	37
Line Coverage	- Linecutting - 7.2 km	
	Magnetic Survey - 7.2 km	
	Readings - 584	
	Line Spacing - 100 meters	
	Station Spacing - 12.5 meters	

Crew

Linecutting	- Gord Fitzgerald, Kirkland Lake, Ontario
	John Adams, Kirkland Lake
Magnetic Survey	- J. Tough, Bracebridge, Ontario
	A. J. Walker, Oakville, Ontario
Drafting	- R. T. Marcroft, Mississauga, Ontario
Field Report	- A. J. Walker, Oakville, Ontario

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Instruments

Magnetic Survey

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

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Ground Geophysical	Magnetometer				Township o Bucke	e Twp	
Claim Holder(s)	Thughe come cer					Prospector's Licence N	0.
LAC Minerals Ltd.						T-664	
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March 15, 1988 Angland 10 27 April 88 allow							
Certification Verifying Report of Work I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work							
or witnessed same during and	l/or after its completion						
Name and Postal Address of Peri John Kovala 91 D	uncan Avenue,	KIRKLAN	ND LAKE,	Ontario Pa	2N 1Y2		
				Date Certified March 15	1022	Certified by Signature	Yo all
1362 (85/12)					, 1300	Yeury	050

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OFFICE USE ONLY

Ministry of Northern Development and Mines

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 Survey(s)	Magnetic	
Township or Area	Bucke Township	MINING CLAIMS TRAVERSED
Claim Holder(s)	Lac Minerals Ltd.	
Survey Company	Walker_Exploratio	n Ltd. 1953909
Author of Report		(prefix) (number)
Address of Author		L953910 es., Oakville
Covering Dates of Survey.		1953911
	(linecutting to office)	L953912
Total Miles of Line Cut_	7.2 km	
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SPECIAL PROVISION		DAYS
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line cutting) for first	-Radiometric	
survey.	- ,	
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g	Geochemical	
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	(enter days per claim)	
DATE: Nov. 25, 1987	SIGNATURE:	all
,	Author of Re	port. or Agent
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Previous Surveys		
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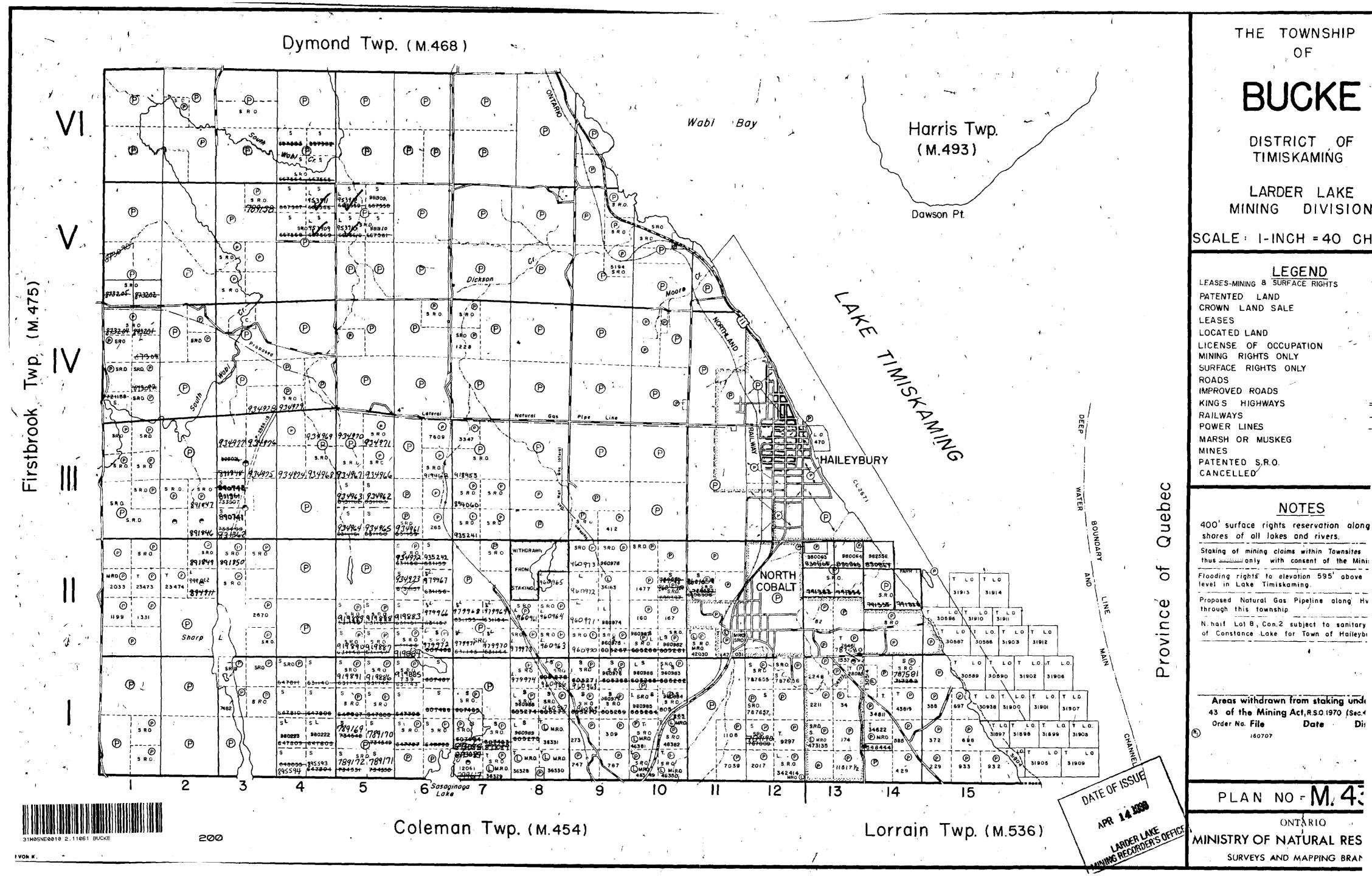
GEOPHYSICAL TECHNICAL DATA

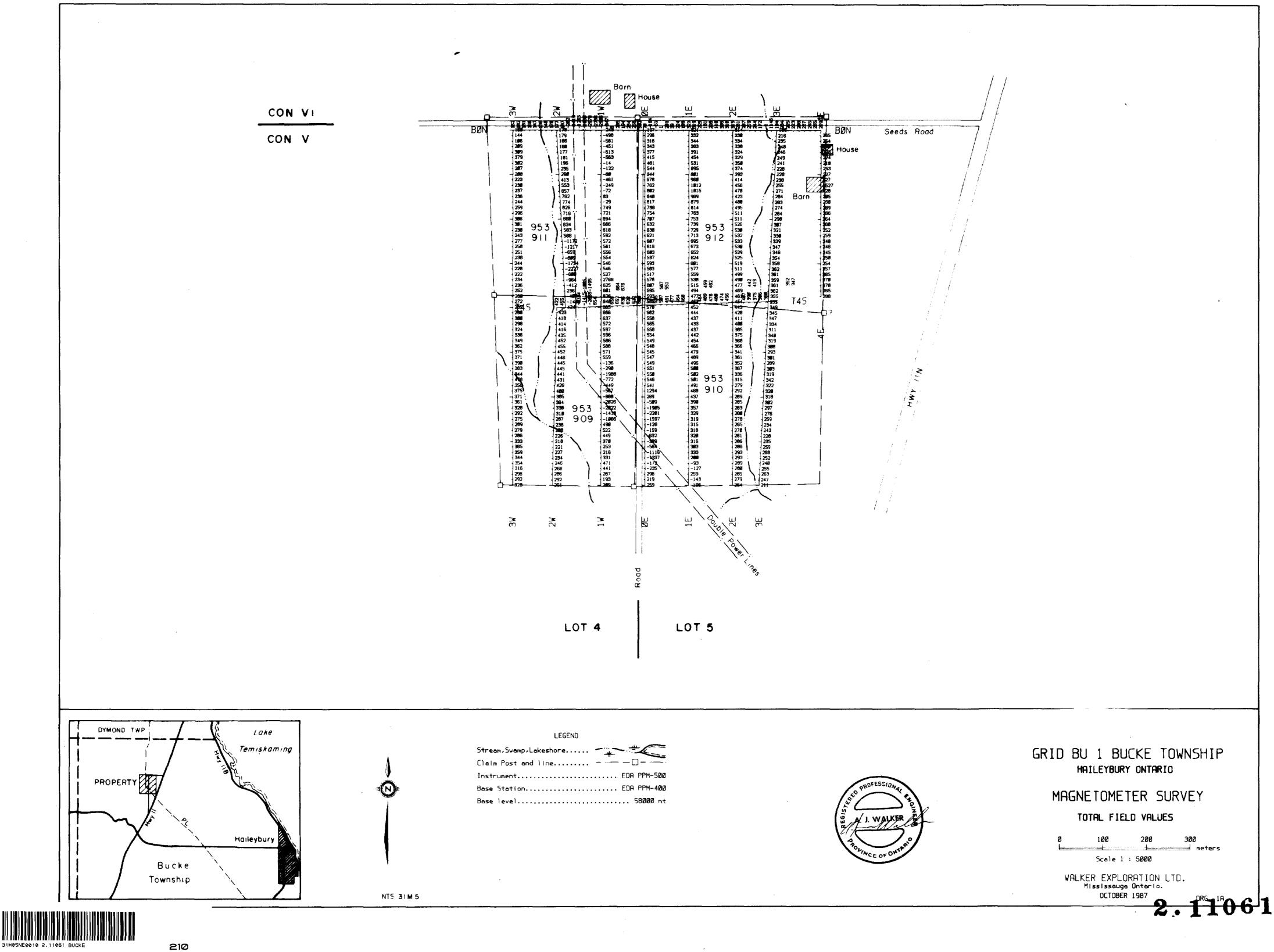
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INDUCED POLARIZATION

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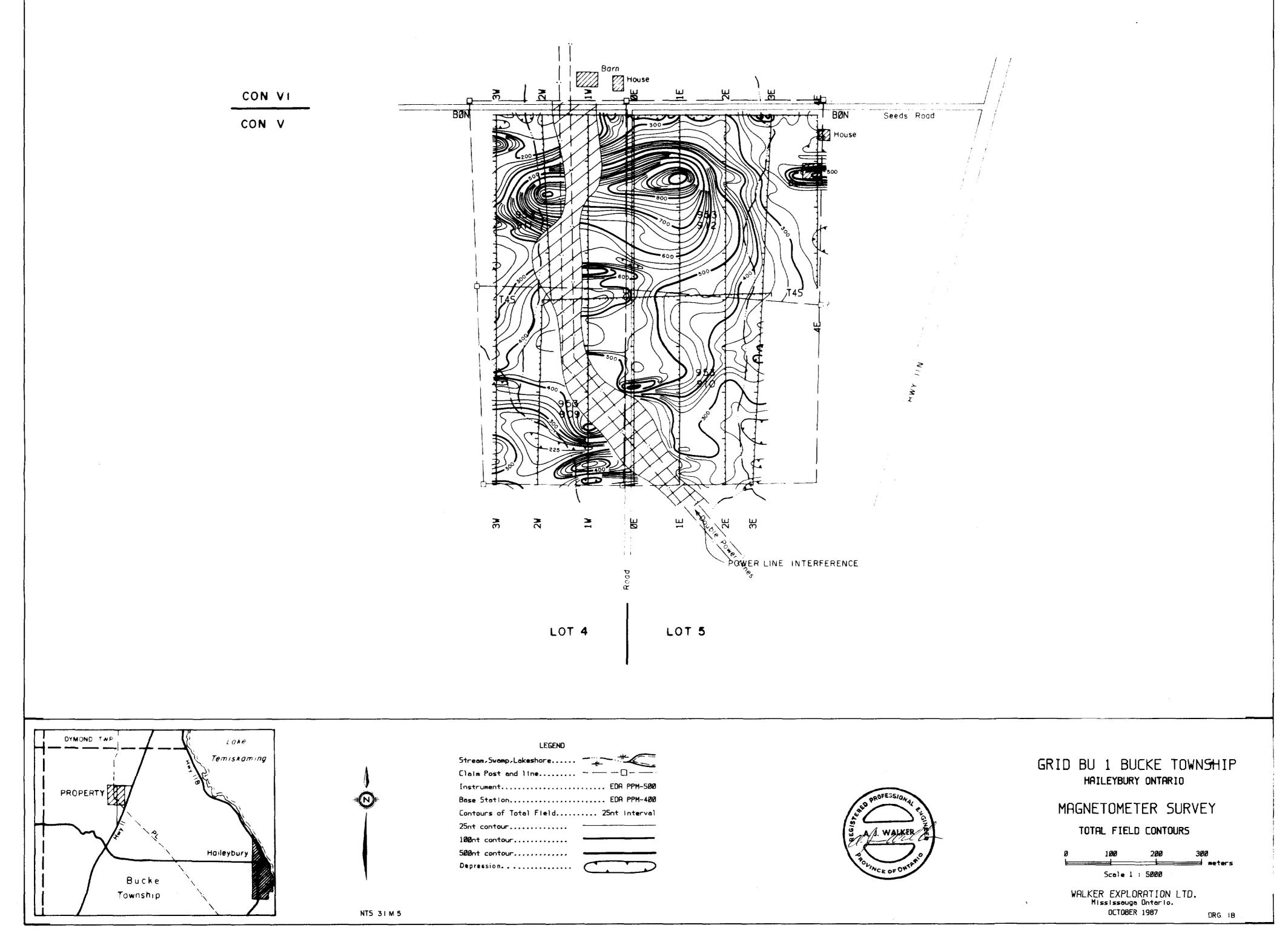
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