

BILLITON CANADA LTD. PICKLE LAKE PROJECT

METRIC GRID CONNELL TOWNSHIP, ONTARIO

NTS 5209

REPORT ON

MAGNETIC AND VLF-EM SURVEYS

A. James Walker, P. Eng.

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February 9, 1985



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ENCLOSURES

Magnetic Survey	-	Total Field Values
	-	Total Field Contours
	-	Vertical Gradient Values
	-	Vertical Gradient Profiles
VLF-EM Survey	-	Dip Angle and Quadrature Values & Profiles
	-	Filtered Dip Angle Values & Contours

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INTRODUCTION

At the request of Mr. John Goodwin, Senior Geologist of Billiton Canada Ltd., Walker Exploration Ltd. contracted to carry out magnetic (total field and gradient) and VLF-EM surveys over 60 mineral claims in the north central part of Connell Township, near Pickle Lake, Ontario. An EDA PPM 500 gradiometer was used for the magnetic survey (total field and vertical gradient) and a Geonics EM16 was used for the VLF-EM survey.

Field work was carried out during the period of December 6th to December 15th, 1984, with approximately 57.1 km of lines surveyed. Linecutting and chaining was carried out by another contractor.

SUMMARY

The magnetic survey shows a general northeast trend, with several narrow bands of magnetic highs.

The VLF-EM survey shows several subparallel conductors, also trending northeast. Zones of good conductivity likely represent sulphide mineralization, while weaker zones are likely shearing and faulting.

Final interpretation and review of previous work is being carried out by Billiton Canada Ltd. staff.

PROPERTY

The property is located about 12 km northeast of the village of

Pickle Lake. Highway 808 passes within a few hundred metres of the northwest part of the group of 60 claims (769643-769652 inclusive and 769900-769949 inclusive) located on the north boundary of Connell Township.

PREVIOUS WORK

With two former gold producers just south of the property, and the former Umex Copper producer about 15 kilometers to the west, the area has seen considerable exploration over the last 50 years. It is likely airborne magnetics and EM, prospecting, trenching geophysics, geochemistry and drilling has been carried out over the claims. Magnetic and electromagnetic surveys were reported for assessment work in 1972 by James Bay Mining Corporation and in 177 by kio Tinto Exploration. Rio Tinto also did some drilling.

GEOLOGY

The claims are located along the Pickle Lake "greenstone" belt of mainly Keenatin mafic volcanics, with some interbanded sediments and iron formation. Formation dip steeply and strike north easterly. Gold mineralization is usually associated with iron formation where fractures have been filled with quartz containing chlorite and sulphide mineralization.

SURVEY METHODS

The magnetic survey was made with an EDA PPM 500 gradiometer, measuring total field to 0.1 gammas and vertical gradient. Observations were made at 12.5 meter intervals along lines 200 meters apart. Diurinal control was made by using an EDA PPM 400 base station magnetometer, located about 60 metres east of Highway 808 on the drill road that intersects line 16S (on adjoining map of Imperial Grid).

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The gradiometer and base station have solid state memory for storage of values and their location, and when plugged together each evening, allows for automatic diurinal corrections. Corrected data was stored on cassette of an HP85 computer. Total field values and contours are plotted on separate sheets, at a scale of 1:5000, at the same base level as the adjoining "Imperial" grid to the west.

Vertical gradient values (gammas per meter) and profiles of values are also plotted on separate sheets.

A Geonics EM16 VLF unit was used for the VLF-EM survey. Section lines were read using the Seattle, Washington transmitter station (NLK 24.8 kHz), while base lines and tie lines were read with the Annapolis, Maryland station (NSS, 21.4 kHz). Dip angle and quadrature values were read in per cent.

Dip angle and quadrature values and profiles of values are plotted on the same sheet. Filtered (Fraser) dip angle values and contours are plotted on a second plan.

SURVEY RESULTS

The magnetic survey shows a northeast trend to the formations. The northwest part of the grid has a different magnetic pattern than the southeast portion. Several parallel bands of higher values, traverse the northwest section, with some offsetting suggesting cross faulting.

The gradiometer survey shows high positive values are generally coincident with the total field high values. However, some responses are

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negative over some total field highs. Some isolated responses may be due to magnetic boulders.

The VLF-EM survey shows several parallel northeast trending conductors. Two conductors near the base line have the best conductivity, while other shorter zones are generally weak. Most of the conductors appear to be adjacent to the magnetic high units rather than coincident.

CONCLUSIONS

The northwest part of the grid shows the most magnetic complexity, as well as having the VLF conductors. Some faulting and shearing is suggested by the survey. The strongest VLF conductors likely represent sulphide mineralization.

The surveys will have to be related to previous work (surveys, drilling, geological mapping, etc).

Final interpretation of these surveys will be by the staff of Billiton Canada Ltd.

Respectfully submitted,

A. Jømes Walker, P. Eng.

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SURVEY DATA

Pickle Lake Project - Billiton Canada Ltd. Connell Township, Ontario

Survey Contractor - Walker Exploration Ltd.

Covering Dates	Magnetic Survey Dec. 6-11, 1984
	VLF-EM Survey Dec. 6-15, 1984
	Mobilization Dec. 3-5, Dec. 17-19, 1984
	Drafting & Contouring Jan 5-31, 1985
	Data & Report Jan, 1-8, Feb, 5-9, 1985

Crew

Magnetic Survey		D. Miles, Proton Station, Ontario
VLF-EM Survey	-	J. Tough, Braœbridge, Ontario
Drafting	-	R. T. Marcroft, Mississauga, Ontario
Contouring	-	T. Miles, Proton Station, Ontario
Data & Report	-	A. James Walker, Oakville, Ontario

Instruments

Magnetometer-Gradiometer EDA PPM 500, Proton

Measuring total field and vertical gradient to 0.1 Gammas Solid State memory

Magnetometer Base Station EDA PPM 400 Proton

Measuring total field to 0.1 Gammas Readings every 30 seconds Solid State Memory Automatic Diurinal Correction of Field Mag Data

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VLF-EM

Geonics EM16 Measuring Dip Angle Z Quadrature Z Transmitters Grid Lines NLK-24.8 kHz Base Lines NSS-21.4 kHz NLK Read looking SE NSS Read looking NE

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Linecutting

Contractor - Geocanex Ltd. covering dates: Nov. 15th - Nov. 28th, 1984 Crew: R. Morin Val d'Or, Quebec G. Robert Val d'Or, Quebec J. Robert Val d'Or, Quebec G. Deveraux Val d'Or, Quebec C. Deveraux Val d'Or, Quebec



File No 2.807/

Control Sheet

Mining Lands Section



MINING LANDS COMMENTS: - 25- List cur ses end total field mag curvey performed in one ton verse using some instrument - one survey. - 100 mitre line spacing. S.P. requires 125m spacing : credit reduced 200 × days requested. lgol

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Signature of Assessor

8/5/85

Date



Ontario	GEOPHYSICAL – GEOLOGICAL – G TECHNICAL DATA STAT	GEOCHEMICAL EMENT	14 .
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Type of Survey(s)	-EM. Total Magnetic Field, Vertic	al Magnetic Gradient	
Township or Area <u>Cont</u>	tell Township	MINING CLAIMS TRAVERS	ED
Claim Holder(s)	ALON VUNNUL DESI		
Survey Company Kall	ker Exploration Ltd.	See attached list (prefix) (numbe	+)
Address of Author	Eurontario Rd.		******
Covering Dates of Survey	<u>Nov. 15, 1984 - Feb, 9, 1985</u>		••••••
Total Miles of Line Cut_	(inecutting to office) $57.1 \text{ km} (35.48 \text{ mlles})$		
SPECIAL PROVISION	CS DAYS		
CREDITS REQUESTE	<u>D</u> Geophysical per claim.		
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same grid.	Geochemical		
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GEOPHYSICAL TECHNICAL DATA

	GEOPHYSICAL TECHNICAL DATA	~~		
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- Ni	umber of Stations 2284-VLF, 4568-magnetic & gradiometermber of Readings 2284	-VLF, 45	i68-magn	etic
∽ St	ation interval 25m-VIF, 12.5 magnetic & gradiometer Line spacing 200 me, res		grad	liome
- Pr	ofile scaleVLF: 1cm=20%, Gradiometer: 1 cm=50nT/metre			
C	ontour interval Total Magnetic field: 25nT			
ol I	InstrumentEDA PPM 500 Magnetometer - Gradiometer			
	Accuracy - Scale constant 0.1 nT			
NU	Diurnal correction method Cycling base station magnetometer (EDA PPM 40	0)		
WW	Base Station check-in interval (hours) 30 second cycling			
	Base Station location and value 60 metres east of Highway 808 along a drill	road in	ntersect	ting
•	line 165. Value 60,684.8 nT			
l Q	Instrument Geonics EM-16	·····		
VET	Coil configuration			
AGI	Coil separation			
WO	Accuracy1% Inphase, Quadrature			
IR	Method: 🗆 Fixed transmitter 🗆 Shoot back 🗆 In line		Parallel li	ne ¦
LEC	Frequency_NLK_24.8kHz - gridline NSS 21.4kHz - baselines			
لط ا	Parameters measured Inphase, Quadrature			
	Instrument			
	Scale constant			
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CR	Base station value and location			
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Pa	769902		ra De	760000
Pa	769903		ra Do	760000
Pa	769904		ra Do	760021
Pa	769905		ra Do	760025
Pa	769906		ra Do	760026
Pa	769907		ra Da	760027
Pa	769908		Po	760020
Pa	769909		Po	760030
Pa	769910		Da	760010
Pa	769911		La Do	7600/1
Pa	769912		Da	760010
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Pa	769920		Pa	769643
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Pa	769926		Pa	769649
Pa	769927		Pa	769650
Pa	769928		Pa	769651
Pa	769929		Pa	769652

CONNELL TOWNSHIP-BEST CLAIMS

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CONNELL TOWNSHIP-BEST CLAIMS

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Pa	769902	80	Pa 769932	80
Pa	769903	80	Pa 769933	80
Pa	769904	80	Pa 769934	80
Pa	769905	80	Pa 769935	80
Pa	769906	80	Pa 769936	80
Pa	769907	80	Pa 769937	80
Pa	769908	· 80	Pa 769938	80
Pa	769909	80	Pa 769939	80
Pa	769910	80	Pa 769940	80
Pa	769911	80	Pa 769941	80
Pa	769912	80	Pa 769942	80
Pa	769913	08	Pa 769943	80
Pa	769914	80	Pa 769944	80
Pa	769915	80	Pa 769945	80
Pa	769916	03	Pa 769946	80
Pa	769917	80	Pa 769947	80
Pa	769918	80	Pa 769948	80
Pa	769919	80	Pa 769949	80
Pa	769920	80	Pa 769643	80
Pa	769921	80	Pa 769644	80
Pa	769922	80	Pa 769645	80
Pa	769923	80	Pa 769646	80
Pa	769924	80	Pa 769647	80
Pa	769925	80	Pa 769648	80
Pa	769926	80	Pa 769649	80
Pa	769927	80	Pa 769650	80
Pa	769928	80	Pa 769651	80
Pa	769929	80	Pa 769652	80

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Billiton C	anada I	.td.	

Suite 1006 141 Adelaide Street West Toronto, Ontario M5H 3L9 Telephone (416) 362-6624 Telex 06-23518

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RECEIVED Lond Management Branch

MAY -7 1985

CIRCULATE

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COMMENTS PLEASE

S. E. YUNDT

J. R. MORTON J. C. SMITH

CHOGAN

and the second

May 3, 1985

Mrs. S.E. Yundt Director Land Management Branch Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

Dear Mrs Yundt:

Please find attached two copies of a report on Magnetic and VLF-EM surveys - Metric grid, Connell Township, Ontario. A report of work has already been sent to the Mining Recorder in Sioux Lookout. Trusting that this is satisfactory.

Yours truly,

BILLITON CANADA LTD.

Kains D.R.B.

D.R.B. Rainsford Geophyisicist

DRBR:mam Attachment



Ministry of Natural Resources

June 19/85

1985 06 04

Your File: 85-90 Our File: 2.8071

Mining Recorder Ministry of Natural Resources P.O. Box 309 Sioux Lookout, Ontario POV 2TO

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

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For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt

Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

DD. Isherwood:mc

Encls.

- cc: Billiton Canada Ltd Suite 1006 141 Adelaide Street West Toronto, Ontario M5H 3L9 Attention: D.R.B. Rainsford
- cc: A.J. Walker 10 Hurontario Street Mississauga, Ontario L5G 3G7
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

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Ministry of Natural Resources

Notice of Intent for Technical Reports

1985 06 04

2.8071/85-90

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this' Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued. 1985 06 26

Your File: 85-90 Our File:2.8071

Nining Recorder Hinistry of Natural Resources P.O. Box 309 Sloux Lookout, Ontario POV 2TO

Dear Str:

RE: Notice of Intent dated June 4, 1985 Geophysical (Electromagnetic & Hagnetometer) Survey on Mining Claims PA 769643, et al, in Connell Township and Tarp Lake Area

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining . claims and so indicate on your records.

Yours sincerely,

S.E. Yundt Director Land Hanagement Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(41E)965-4888

D. Isherwood:mc

- cc: Billiton Canada Ltd Suite 1006 141 Adelaide Street West Toronto, Ontario M5H 3L9 Attention: D.R.B. Rainsford
- cc: A.J. Halker 10 Huron**miz**io Street Mississauga, Ontario L5G 3G7
- cc: Hr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

cc: Resident Geologist

Sloux Lookout, Ontario

Encl.









520/09SE-0042,#1



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52\$/09SE-0042,#2



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520/095E-0042,#5





52\$/09SE-0042,#6