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ATKINSON EAST (B-13) ASSESSMENT REPORT ON VLF-EM16 COMPLETED DURING THE SUMMER OF 1990

# RECEIVED

2.13966

FEB 2 7 1991 MINING LANDS SECTION

N.T.S. 32E/13

Latitude 49 53'N

Longitude 79 33'W

June, 1990

Alan O'Connor, B.Sc.



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32E135E0101 2.13966 ATKINSON LAKE

### Table of Contents

Page List of Figures ii List of Tables ii 1.0 Summary 1 2.0 2 Recommendations 3.0 Introduction 5 Location, Access and Topography 5 3.1 6 3.2 Land Status 6 3.3 Previous Work 1990 Work Programme 6 3.4 9 4.0 Regional Geology 9 4.1 Economic Geology 10 5.0 VLF-EM16 Survey References Certification

File name: atkeast.rep

	List of Figures	ii.
		Page
Figure 1	Project Location Map	3
Figure 2	Grid Location Map	4
Figure 3	Land Status	8
Figure 4	VLF-EM16	in pocket

# List of Tables

Table	1	Work	Summary	1
Table	2	Land	Status	7

#### 1.0 <u>Summary</u>:

The Atkinson East property consists of 10 contiguous mining claims which cover 160 ha in the Atkinson Lake district, Detour Lake Mine area in northeastern Ontario. The property is located 150 km NE of Cochrane, Ontario and 25 km south of the Detour Lake Mine.

Previous work on the property consists of both airborne and ground geophysical surveys as well as diamond drilling completed by Getty Canadian Metals, Selco and Noranda Exploration. During the summer of 1989, Westmin completed a program of linecutting (13.4 km) and geological mapping.

The 1990 work program consisted of a VLF-EM16 survey completed over the entire grid (13.26 km).

#### Table 1

#### Work Summary

_	Year	Cut-Line (km)	VLF-EM16 (km)	
	1989	13.4 km	-	
	1990	-	13.26	
-				
	Total:	13.4	13.26	

### 2.0 Recommendations:

Results from an interpretation of previous geophysical surveys and from previous diamond drilling indicate that additional work in the form of diamond drilling is warranted to test the economic potential of the property. A 2 hole/300m drilling campaign is proposed at a cost of approximately 45,000 dollars.



Figure 1



Fig. 2

### 3.0 Introduction:

This report details the work completed during the 1990 field program and presents an evaluation of the data collected. The report is based upon data gathered by Westmin personnel during June of 1990.

#### 3.1 Location, Access and Topography:

The Atkinson East property is located approximately 150 km northeast of Cochrane, Ontario (N.T.S. 32 E/13) near the Quebec-Ontario border and 25 km south of the Detour Lake minesite (figs. 1,2). An all-weather gravel road which connects Cochrane with the Detour Lake minesite can be used to reach the general project area. A winter road which leads from the minesite to Lac Gagnon near La Sarre, Quebec bisects the claim block. Although the road is no longer maintained, it is still in good condition enabling the use of an amphibious tracked vehicle, such as an Argo, for access. Snowmobiles and heavy equipment (skidders, etc) may be used in the winter.

Float and ski equipped fixed wing aircraft may be used to access Atkinson Lake which is located two kilometres to the west of the property. Fixed and rotary winged aircraft bases are located in both Cochrane, Ontario and La Sarre, Quebec.

Topographically, the region is characterized by little relief with much of the area covered by fen and string bog. Outcrop is sparse due to a blanket of overburden and muskeg which extends over a large portion of the Detour Lake region. Vegetation is typical of the boreal forest with most of the region covered by stands of black spruce and, occasionally, small groves of poplar. To date, there has been no harvesting of trees for economic purposes in this vicinity. The area is drained by small creeks and rivers with the Detour River being the largest in the district.

#### 3.2 Land Status:

The Atkinson East group consists of 10 contiguous mining claims which cover an area of 160 ha (fig.3). Westmin Mines Ltd. holds a 100% equity interest in the property (Table 2).

- 3.3 Previous Work:
- 1968 (O.D.M. Report #30): Selco drilled one diamond drill hole (hole #1) to a depth of 178.6 metres while exploring for nickel and copper. This hole intersected mafic and altered ultramafic (talc-carbonate) metavolcanics and gabbroic intrusions.
- 1979 (O.D.M. Report #30): A single diamond drill hole completed by Noranda Exploration on the Atkinson East claim block (B-13) intersected metasedimentary rocks and graphite.
- 1982 (O.D.M. Report #32): Getty Canadian Metals drilled one hole (DL-82-03) to a depth of 261.2 metres. Rock types encountered in this hole consisted of mafic and altered ultramafic (talc-carbonate) metavolcanics.
- 1989: During June of 1989, Westmin Mines Ltd. completed a linecutting (13.4 km) and geological mapping program on the Atkinson East claim block. No outcrop was found.

#### 3.4 <u>1990 Work Program</u>:

During June of 1990, a VLF-EM16 survey (13.26 km) was completed over the 10 claims of the Atkinson East (B-13) claim block. All work was carried out by Westmin personnel.



#### ATKINSON B 13 - PROPERTY STATUS

- Location; Atkinson Lake Area (G-1626), Porcupine Mining Division, Ontario N.T.S. 32-E-13 Lat. 49 49'N Long. 79 32'W
- Equity: Westmin Mines Limited 100%

<u>Claims</u>	Recording Date	<u>Lease Due</u>	Assessment Work Due	Work Filed
P.1090093	1 March 1989	1 March 1995	1 March 1991	30
P.1090094	1 March 1989	1 March 1995	1 March 1991	40
P.1090095	1 March 1989	1 March 1995	1 March 1991	40
P.1090096	1 March 1989	1 March 1995	1 March 1991	40
P.1090097	1 March 1989	1 March 1995	1 March 1991	40
P.1090098	1 March 1989	1 March 1995	1 March 1991	40
P.1090099	1 March 1989	1 March 1995	1 March 1991	40
P.1090100	1 March 1989	1 March 1995	1 March 1991	40
P.1090101	1 March 1989	1 March 1995	1 March 1991	40
P.1090102	1 March 1989	1 March 1995	1 March 1991	40

10 claims = 160 ha

390 days

Work Required 1 yr. 20 days 2 yr. 40 days 3 yr 40 days 4 yr. 40 days 5 yr. 60 days Tot: 200 days

Date: 18 September 1990

Atkinson B 13, Ontario Page 1 of 1

7.



#### Regional Geology:

The Atkinson area is underlain by the northern belt of a folded supracrustal sequence with the main volcanic-sedimentary sequence occurring to the west in Quebec. The belt, which is Archean in age, has undergone regional and contact metamorphism ranging from upper greenschist to almandine-amphibolite facies rank.

The belt is composed of a metavolcanic-sedimentary sequence with a basal unit of felsic to intermediate volcanics. Overlying the felsic volcanics is a sequence of metasediments followed by mafic to intermediate flows and pyroclastics. Stratigraphically above this unit are interbedded felsic to intermediate volcanics and mafic to intermediate volcanics and metasediments. At the top of the stratigraphic sequence is a unit of metasediments with mafic flows and graphitic tuffs and metasediments which commonly contain anomalous concentrations of sulphides.

The area is surrounded by quartz-monzonite batholiths with a large gabbroic intrusion occurring in the Detour Lake area. Finnaly, the geology is intruded by several diabase dykes which crosscut all other rock types and structures (Johns, 1982).

#### 4.1 Economic Geology:

The most significant ore deposit in the project area is the Detour Lake gold mine which is located 25 km to the north of the property. Currently this deposit contains 7.3 mt of ore grading 5.4 g/t Au.

The main zone of mineralization of the deposit is hosted within the basal part of the mafic flow sequence, the upper part of the ultramafic zone and within the intermediate and cherty tuff horizon located between the two preceding units. The gold is associated with chalcopyrite in the metavolcanic rocks as well as in the mineralized quartz veins which occur above the main zone (Johns, 1982).

Alteration in the vicinity of the deposit consists of:

- a) talc-carbonate alteration of the ultramafic rocks
- b) chloritic alteration of the basalts
- c) potassic alteration in the cherty tuff
- d) intense biotite alteration of the basalts

### 5.0 <u>VLF-EM16 Survey</u>:

A VLF-EM16 survey was completed over the entire grid for a total of 13.26 km. A Geonics instrument was used for the survey with Seattle, Washington used as a transmitting station for lines 1800E to 1500E and Cutler, Maine for the remaining lines. Readings were taken facing north at a 20 metre station spacing. Several weak, east-west trending conductors were delineated by the survey with peak to trough amplitudes generally in the order of 5%. The lack of sharp crossovers in the in-phase component, coupled with a relatively flat quadrature may indicate that most of the conductors defined by the survey may be related to overburden effects.

Respectfully submitted by:

OC O'Connor, B.Sc. Qualification. 2.12993

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#### <u>Certification</u>

I, Alan J. O'Connor, of 312 St. Clarens Avenue, Toronto, Ontario, M6H 3W3, certify that:

- I hold a Bachelor of Science degree (geology) received in 1985 from the University of Western Ontario.
- I have practised my profession as a project geologist in the mining industry on a fulltime basis for five years.
- 3) I have conducted field work on this property, and supervised the geological, geochemical and geophysical work described in the report.
- 4) I have no financial interest in the property.

June, 1990

1Pm

A.J. O'Connor, B.Sc.

Johns, G.W., (1982)

Geology of the Burntbush-Detour Lake Areas. Ontario Geological Survey Report 199.

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Ministry of Northern Developme and Mines	ent '			059						
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Type of Survey(s)			<u> </u>	Mining Division		Township or A	rea	<u>.</u>		
Geophysical				Porcupine	l_	Atkinso	n Lal	ce Are	a G-1	626
Westmin Mine	es Limited		2.	13966	>	ſ	T-46	38		
Address						†	elephone	No.		
904-1055 Dui	nsmuir St., P.	O. Box	49066,	Bentall Ctr	e, Vanc	ouver	$\frac{(604)}{100}$	681-2	253	
Westmin Mine	es Limited				D.C.	¥/A	104			
Name and Address of Author (of	I Geo-Technical Report)						ate of S	urvey (fron	n & to)	• ••••••••••••••••••••••••••••••••••••
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For each additional survey:	- Other		Ρ.	1090095		14/06	5/90	o 15/0	6/90	
Enter 20 days (for each)	Geological		Ρ.	1090096						
	Geochemical		Ρ.	1090097						
Man Days	Geophysical	Days per Claim	Ρ.	1090098						
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I hereby certify that I have a per	rsonal and intimate knowle	dge of the fa	cts set forth i	n this Report of Work,	having perfo	ormed the wor	k or with	essed same	during a	nd/or
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Ministry of Northern Development	Technical Assessment		~
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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 Survey(s) Geophysical	معند ما بر المراجع . مراجع المراجع . مراجع	
Township or Area _ Atkinson Lake	e Area (G-1626)	MINING CLADING TRAVERSED
Claim Holder(s) Westmin Mines	Limited	List numerically
Survey Company Westmin Mine	s Limited	(Drefix)
Author of Report Alan O'Connor	······································	in the cost of the state of the
Address of Author 312Clarens Av	e., Toronto, Ontario M6H 3W3	P 100002
Covering Dates of Survey June 1,	6, 14 to 15, 1990 (linecutting to office)	
Total Miles of Line Cut	· · · · · · · · · · · · · · · · · · ·	P, 1090094
SPECIAL PROVISIONS	DAVS	P, 1090095
CREDITS REQUESTED	Geophysical per claim	P, 1090096
ENTER 40 days (includes	Electromagnetic	<b></b>
line cutting plot first	-Magnetometer	P, 1090098
survey. FED SECTION	-Radiometric	P. 1090099
ENTER 2001 AND each	–Other	
add Nichal survey using	Geological	
	Geochemical	P
AIRBORNE CREDITS (Special provisio	n credits do not apply to airborne surveys)	P. 1090102
MagnetometerElectromagne	tic Radiometric	
DATE: Feb. 26, 1991 SIGNAT	URE: Author of Report or Agent	
Res. Geol Qualific	cations	
Previous Surveys		
File No. Type Date	Claim Holder	An an an an an Anna an Anna an Anna an
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		TOTAL CLAIMS10
	• • • • • • •	

# **GEOPHYSICAL TECHNICAL DATA**

7

<u>GROUND SURVEYS</u> – If more than one survey, specify data for each type of survey

Number of Stations	681	Number of Readings	1362
Station interval	20 metres	Line spacing 100 met	res
Profile scale	1 cm = 20%		
Contour interval	N/A		
· .			and a second
Instrument			and the second of the second
Accuracy – Scale cons	stant		
Diurnal correction met	thod		and the second
Base Station check-in i	interval (hours)		
Base Station location a	and value		de la la persona
Instrument G	eonics_EM-16		an ta
Coil configuration	N/A		
Coil separation	N/A		
Accuracy	± 18		
Method:	Fixed transmitter	□ Shoot back □ In line	🔀 Parallel line
Frequency Seat	tle, Washington, Cutle	er, Maine	
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Parameters measured_			
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Instrument			<u></u>
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– Off time		Range	
– Delay ti	me		
— Integrati	ion time		
Power			· · · · · · · · · · · · · · · · · · ·
<sup>¶</sup> Electrode array			
Electrode spacing			
Type of electrode			

MAGNETIC

ELECTROMAGNETIC

**GRAVITY** 

# SELF POTENTIAL

Survey Method	Instrument	Range
Corrections made	Survey Method	· · · · · · · · · · · · · · · · · · ·
Corrections made		
RADIOMETRIC         Instrument         Values measured         Energy windows (levels)         Height of instrument         Background Count         Size of detector         Overburden         (type, depth - include outcrop map)         OTHERS (SEISMIC, DRILL, WELL LOGGING ETC.)         Type of survey         Instrument         Accuracy         Parameters measured         Additional information (for understanding results)         AttRBORNE SURVEYS         Type of survey(s)         Instrument(s)         (upcdfy for each type of survey)         Accuracy         (specify for each type of survey)         Accuracy         (specify for each type of survey)         Aircraft used         Sensor altitude         Navigation and flight path recovery method         Aircraft altitude       Line Spacing         Miles flown over total area       Over claims only	Corrections made	
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Miles flown over total areaOver claims only	Aircraft altitude	Line Spacing
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# GEOCHEMICAL SURVEY - PROCEDURE RECORD

Total Number of Samples	ANALYTICAL METHODS         Values expressed in:       per cent         p. p. m.       p. p. m.         p. p. b.       p. p. b.
Total Number of Samples	ANALYTICAL METHODS         Values expressed in:       per cent         p. p. m.       p. p. m.         p. p. b.       D
Total Number of Samples	ANALYTICAL METHODS         Values expressed in:       per cent         p. p. m.       p. p. m.         p. p. b.       p. p. b.
•	Values expressed in:    p. p. m.    p. p. b.
Type of Sample	$- \qquad \qquad$
(Nature of Material)	— p. p. b. 🗖
Average Sample Weight	
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (tests
Mach size of fraction used for analysis	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
<u> </u>	Reagents Used
•	
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General	
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Ministry of Northern Development and Mines Mining Lands Section 4th Floor, 159 Cedar Street Sudbury, Ontario P3E 6A5 et des Mines Telephone: (705) 670-7264 Fax: (705) 670-7262 Your File: W. 9106.059 Our File 2.13966

May 27, 1991

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir/Madam:

RE: Notice of Intent dated April 26, 1991 for Geophysical (Electromagnetic) Survey on mining claims P.1090094 et al. in the Atkinson 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,

in Clask Ron. C. Gashinski,

Provincial Manager, Mining Lands Mines & Minerals Division

/LJ/jl Enclosure:

cc: Westmin Mines Limited Vancouver, B.C.

> Resident Geologist Timmins, Ontario

Mr. Alan O'Connor Toronto, Ontario

Assessment Files Office Toronto, Ontario







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