

A-875

REPORT ON A

HIGH SENSITIVITY MAGNETIC & VLF-EM AIRBORNE SURVEY

MALLARD, YEO, CHESTER, BENNEWEISS & CHAMPAGNE TOWNSHIPS

> PORCUPINE MINING DIVISION ONTARIO

2.13771

for

BLUE FALCON MINES LTD.

RECEIVED

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MINING LANDS SECTION

by

TERRAQUEST LTD. Toronto, Canada

December 11, 1990

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1 1.0 INTRODUCTION 1 2.0 THE SURVEY AREA 3 3.0 GEOLOGY SURVEY SPECIFICATIONS 4 4.0 4.1 Aircraft and Instruments 4 5 4.2 Lines and Data 6 6 4.4 Navigation and Recovery 5.0 DATA PROCESSING 7 7 6.0 7.0 8 APPENDIX I Personnel APPENDIX II Certificate of Qualifications LIST OF FIGURES Figure 1 - General Location Map Figure 2 - Survey Area Map Figure 3 - Sample Record LIST OF MAPS IN JACKET No. A-875-1, Total Magnetic Field No. A-875-2, VLF-EM Survey

The survey is plotted on four map sheets as follows:(A-875.1)Mallard Township(A-875.2)Yeo & Chester Townships(A-875.3)Chester & Benneweiss Townships(A-875.4)Champagne Township

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1.0 INTRODUCTION

This report describes the specifications and results of an airborne geophysical survey carried out for BLUE FALCON MINES LTD. of 20 Advance Blvd, Brampton, Ontario L6T 4R7 by Terraquest Ltd., 240 Adelaide Street West, Toronto, Canada. The field work was completed on July 24, 1990 and the data processing and reporting was carried out from December 1 to 11, 1990. Toronto, Canada M5H 1W7, Telephone (416) 971-5400, Fax (416) 971-6449

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The purpose of a survey of this type is two-fold. First to prospect directly for anomalously conductive and magnetic areas in the earth's crust which may be caused by, or at least related to, mineral deposits. A second is to use the magnetic and conductivity patterns derived from the survey results to assist in mapping geology, and to indicate the presence of faults, shear zones, folding, alteration zones and other structures potentially favourable to the presence of gold and base-metal concentration. To achieve this purpose the survey area was systematically traversed by an aircraft carrying geophysical instruments along parallel flight lines spaced at even intervals, 90 metres above the terrain surface, and aligned so as to intersect the regional geology in a way to provide the optimum contour patterns of geophysical data.

2.0 THE SURVEY AREAS

The survey covers parts of five Townships in seven noncontiguous blocks. These blocks are grouped as follows:

MALLARD_TOWNSHIP (A-875.1)

The Mallard Township Block (A-875.1) is located in the northwest quadrant of Mallard Township, in the Porcupine Mining Division of Ontario about 110 kilometres southwest of the town of Timmins. The claims lie in the vicinity of Woman River and can be reached by numerous bush roads which connect with the Eddy Forest Road to the south.

The latitude and longitude are 47 degrees 44 minutes, and 82 degrees 20 minutes respectively, and the N.T.S. reference is 410/9.

The claim numbers for assessment credit are shown in figure 2a and listed below:

P. 1071953-1071954 (2) 1071959-1071962 (4) 1091105-1091113 (9) 1087798-1087799 (2) 1074704-1074705 (2).....total 19 claims

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YEO & CHESTER TOWNSHIPS (A-875.2)

Most of the claims of this group lie in the northern and northeastern parts of Yeo Township and a few claims lie along the western edge of Chester Township. This survey block is approximately 110 kilometres south southwest of the town of Timmins and can be accessed by bush roads leading north from the Eddy Forest Road.

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The latitude and longitude are 47 degrees 34 minutes, and 82 degrees 00 minutes respectively, and the N.T.S. reference is 410/9 and 12.

The claim numbers are shown in figure 2b and listed below:

Yeo Township

Р.	924045-924054	(10)	
	924210-924217	(8)	
	950699-950710	(10)	
	950715-950716	(2)	
	995811-995833	(23)	
	957265-957268	(4)	
	1071958-	(1)	
	1071971-1071972	(2)	
	1075238-1075239	(2)	
· .	1114058-1114061	(4)	
	987537	(1)	
	881298-881300	(3)70	claims
Chester	Township		
Ρ.	1036001-1036003	(3)	
	1075235-1075237	(3)	
	1158301-1158304	(4)	
	1159930-1159931	(2)	
	805851	(1)13	claims

CHESTER & BENNEWEISS TOWNSHIPS (A-875.3)

This block is comprised of several claims in the northest corner of Chester Township and some in the central western portion of Benneweiss Township, approximately 110 kilometres south southwest of the town of Timmins. The claims can be reached directly by highways #144 and old #560.

The latitude and longitude are 47 degrees 33 minutes, and 81 degrees 50 minutes respectively, and the N.T.S. reference is 41P/12.

The claim numbers are shown in figure 2c and listed below: TERRAQUEST LTD.

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Renueme	liss Township	
Ρ.	1094605-1094617	(13)
	881285-881287	(3)
	881289-881294	(6)
	1035979-1035982	(4)26 claims
Chester	Township	
Р.	1091114	(1)
	1112603	(1)
	1035999-1036000	(2)
	1075230-1075234	(5)9 claims

CHAMPAGNE TOWNSHIP (A-875.4)

This 12 claim block is located near the centre of Champagne Township, in the Porcupine Mining Division of Ontario about 110 kilometres south southwest of the town of Timmins. The claims lie at the intersection of the old #560 highway and the CNR tracks, at station Makwa.

The latitude and longitude are 47 degrees 31 minutes, and 81 degrees 41 minutes respectively, and the N.T.S. reference is 41P/12.

The claim numbers are shown in figure 2d and listed below: Champagne Township

P. 1041797-1041801 (5) 819904-819906 (3) 622056-622059 (4)....12 claims

3.0 GEOLOGY

Map References

Map 41d: Three Ducks Lake Area. scale 1:47,520, ODM, 1932 1. Map 44g: Opeepeesway Lake Area. scale 1:63,360, ODM, 1935 2. Map 2205: Timmins-Kirkland Lake Geological Compilation 3. Series. scale 1:253,440, ODM, 1973 Map 2352: Chapleau. scale 1:250,000 ODM, 1976 4. 5. Map 2504: Benton and Mallard Townships. scale 1:31,680, OGS, 1987 Map P.2342: Mallard Township: scale 1;15,840. OGS, 1980 6. 7. Map P.2449: Chester and Yeo Townships. scale 1:15,840. OGS, 1981 Map P.2534: Pensyl Lake Area. scale 1:15,840, OGS 1982 8. The Mallard Township claim block is underlain by massive to

foliated mafic metavolcanics with a predominant schistocity that strikes to the northwest. A semiconformble, narrow gabbroic

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intrusive occurs to the north. A significant gold showing occurs near the major bend in the Woman River.

The claims in Yeo, Chester and Benneweiss Townships are also underlain predominantly by east-west trending mafic metavolcanics with thin horizons of intermediate metavolcanics. The southernmost portions straddle the contact with batholilthic felsic intrusives primarily trondhjemite. Thin metavolcanic horizons and migmatitic rocks occur within the batholithic rocks. Iron formation plus numerous showings of gold, copper, lead and zinc occur throughout this area.

The Benneweiss and Champagne claim groups are underlain primarily by the trondhjemitic batholithic suite plus migmatitic rocks and thin horizons of metavolcanic rocks. A gold showing with pyrrhotite, chalcopyrite and pyrite occurs within the migmatitic rocks just east of Mollie River in Champagne Township.

North to northwest trending diabase dykes occur throughout the entire area. Most of the cross structures also trend to the northwest.

4.0 SURVEY SPECIFICATIONS

4.1 Aircraft and Instruments

The survey was carried out using a Cessna 206 aircraft, registration C-GUCE, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer sensor is a high sensitivity, optically pumped cesium vapour magnetometer mounted in a wingtip extension. It's specifications are as follows:

Working range:	20,000-100,000 gammas
Sensitivity:	0.005 gammas
Sampling rate:	0.2 seconds
Model:	BIW 2321H8
Manufacturer:	Scintrex, Concord Ontario.

The magnetometer processor is a PMAG 3000 and the data acquisition system is a PDAS 1000, both manufactured by Picodas Group Inc.

The signal to noise ratio of the magnetic response is improved by a real time compensation technique provided by Picodas Group Inc. The sources of noise are permanent, induced and eddy current effects of the airframe, and the heading effects. The system uses three orthogonal fluxgate magnetometers to measure the aircraft attitude with respect to the earth's magnetic field vector. A mathematical model is used to solve this interference effect.

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The VLF-EM antenna is mounted in a reinforced fibreglass tube projected forward from the midsection of the starboard wing. It is composed of three orthogonal coils and measures (a) the total field strength of the EM field, and (b) the quadrature which is defined as the phase difference between the vertical coil and either one of the horizontal coils. The polarity is defined by the direction of flight, routinely normalized to north or east headings. The total field magnitude is insensitive to antenna orientation in pitch, roll and yaw.

The VLF-EM system measures two frequencies simultaneously so as to allow two transmitters to be selected to ensure good coupling with the target conductors. The "LINE" transmitter (Channel 1) is located ideally at right angles to the flight lines such that the transmitted energy will couple well with the stratigraphy. In this case the recorded quadrature is the phase difference between the vertical coil and the "along line" or LINE coil.

The "ORTHO" transmitter (Channel 2) is ideally located along the flight lines or along the direction of cross-faulting, and the recorded quadrature is the phase difference between the vertical coil and the "across line" or ORTHO coil.

Although total field and quadrature data are recorded from both Channels, only the data from Channel 1 are routinely processed and plotted. The data from the Channel 2 are available for processing if requested.

Occasionaly the transmitters are shut down for maintenance, when this happens the next most suitable transmitter is selected.

The specifications of the VLF-EM system are:

Frequency Range15kHz to 25kHz for each channelSensitivity Range130uV to 100mV m at 20kHzSensitivity Range3dB down at 14kHz and 24kHzAccuracy:1%Reading Interval:0.2 secondModel:TOTEM 2AManufacturer:Herz Industries, Toronto, Canada

Other instruments are:

- * King KRA-10A radar altimeter
- PDAS-1000 data processor with 40 mByte cassette tape and 3 1/2" disk recorder manufactured by Picodas Group Inc.
- * Trimble TRANS GPS satellite navigation
- Video tape flight path confirmation, 1/10th second fiducial intervals and with electronic attitude compensation

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4.2 Lines and Data

VLF-EM.....11 metres

Channel 1 ("LINE" Transmitter)...... NAA Cutler, 24.0 kHz Channel 2 ("ORTHO" Transmitter)...... NSS Annapolis, 21.4 kHz FLIGHT LOG:

July	22	61	lines,	262.8	kilometres,	partly cl	oudy
July	23	55	lines,	76.7	kilometres,	afternoon	rain
July	24	90	lines,	136.2	kilometres,	overcast,	thunder

4.3 Tolerances

Line spacing: Any gaps wider than twice the line spacing and longer than 10 times the line spacing were filled in by a new line.

Terrain clearance: Portions of line which were flown above 125 metres for more than one kilometre were reflown if safety considerations were acceptable.

Diurnal magnetic variation: Less than ten gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.

Manoeuvre noise: nil

4.4 Navigation and Recovery

The satellite navigation system was used during periods of satellite visibility to ferry to the survey site and to survey along each line using UTM coordinates. The accuracy is variable depending on the number and condition of the satellites; however it is less than twenty five metres and typically in the ten to fifteen metre range.

For assisting the navigation of the aircraft and the recovery of the flight path, semi-controlled mosaics of aerial photographs were made from existing air photos. Each photograph forming the mosaic was adjusted to conform to the NTS map system before the mosaic was assembled. These mosaics are also used as a base for the data and interpretation maps and thereby allow detailed ground locations for follow-up investigations and further mapping.

Flight path recovery was also carried out in the field using a

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video tape viewer to observe the flight path as recorded by the Geocam video camera system. The flight path recovery was completed daily to enable reflights to be selected where needed for the following day and to provide correlation between the satellite navigation/recovery data and the photomosaic base maps.

5.0 DATA PROCESSING

The total field magnetic data was calculated using the magnetic values from the port wing-tip mounted magnetometer. The magnetic data values were levelled in the standard manner by tying survey lines to the control lines. The data were then gridded at 2.5mm grid cell size at map scale and contoured using standard cubic spline interpolation to confirm the accuracy of the levelling procedure. Additional adjustments to the total field magnetics were made as required and then plotted.

The VLF data was treated automatically so as to normalize the non conductive background areas to 100 (total field strength) and zero (quadrature). The algorithms to do this were developed by Terraquest and will be provided to anyone interested by application to the company.

All of these data processing calculations and map contouring were carried out by Dataplotting Services Inc. of Toronto.

Grant, F.S. and Spector A., 1970: Statistical Models for Interpreting Aeromagnetic Data; Geophysics, Vol 35 Grant, F.S., 1972: Review of Data Processing and Interpretation Methods in Gravity and Magnetics; Geophysics Vol 37-4 Spector, A., 1968: Spectral Analysis of Aeromagnetic maps; un-

published thesis; University of Toronto.

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6.0 INTERPRETATION

The magnetic and VLF-EM data are shown in contoured format on maps at a scale of 1:10,000 in the back pocket. The following notes are intended to supplement these maps.

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The total magnetic field over the Mallard Township group has a relief of approximately 300 gammas and shows the general trend of the lithology. The VLF-EM survey shows several east-west and northwest trending conductors. In places these responses appear to be augmented by surficial conductivity.

The relief of the total magnetic field over the remaining claims groups is approximately 550 gammas and displays patterns that are consistent with the mapped geology. Many of the magnetic units are truncated or displaced by folding or faulting. The northwest trending diabase dykes in Chester, Benneweiss and Champagne Townships are characterized by significant magnetic responses which dominant the magnetic maps.

Numerous east-west and northwest trending conductor axes have been identified by the VLF-EM survey. Many of these appear to be locally enhanced by conductive overburden found in topographic depressions. Many of the northwest trending conductors appear to be related to the diabase dykes and/or faults. The east-west conductor axes are probably stratabound in their origin.

7.0 SUMMARY

An airborne combined magnetic and VLF-EM survey has been carried out at 90 metre mean terrain clearance with 100 metre line intervals and with data reading stations at 11 metres along the flight lines. All data is produced on maps at a scale of 1:10,000.

The magnetic data is consistent with the known geology. The northwest trending diabase dykes possess strong magnetic anomalies which dominate most of the maps. Numerous VLF-EM conductor axes were found most of which some are associated with structural sources. A few appear to be stratabound in nature and therefore warrant detailed ground follow up.

TERRAQUEST LTE Charles A. Barrie, M.Sc.

Charles & Barrie, M.Sc. Geologist



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APPENDIX I

PERSONNEL

- Field: Operator.....Andre Roy Pilot.....Ken Towers Dataman.....Michel Roy Completion Date....July 24, 1990
- Office: Manager.....Roger Watson, P.Eng Processing......Dataplotting Services Inc. Reporting......Charles Barrie, M.Sc.

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APPENDIX II

CERTIFICATE OF QUALIFICATION

- I, Charles Q. Barrie, certify that :
 - 1. I am registered as a Fellow with the Geological Association of Canada and work as a Professional Geologist.
 - 2. I hold an honours B.Sc. degree in Geology from McMaster University, obtained in 1977.
 - 3. I hold an M.Sc. degree in Geology from Dalhousie University, obtained in 1980.
 - 4. I am a member of the Prospectors and Developers Association of Canada.
 - 5. I have been working continuously as a geologist in the mineral industry for ten years.
 - 6. I reside at 1373 Queen Victoria Avenue in the city of Mississauga, Ontario, L5H 3H2.
 - 7.° I am employed by and am an owner of Terraquest Ltd., specializing in high sensitivity airborne geophysical surveys.
 - 8. The accompanying report has been prepared from airborne data collected by Terraquest Ltd. exclusively for BLUE FALCON MINES LTD. Reference material included geological maps published by the provincial government. I have not visited the property.
 - 9. I have no interest in the property described nor the immediate area of the claims.

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Toronto, Ontario Dec. 11, 1990

Signed

Charles Q. Barrie, M.Sc. Vice President, TERRAQUEST LTD.

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Ministry of Northern Developr and Mines Mining Act	nent Report of Wor (Geophysical, Geo	DOC W blogical and d	UMEN 9006 Geochem	T No. 60483 ical Surveys)	Instruction • Please ty • Refer to S and maxi • If number attach a I • Technical Mining Li	pe or print. Section 77, th mum credits r of mining of list. 1 Reports at ands Section	e Mining Act s allowed pe claip is trave hd maps in n. Mineral D	I for assessing or survey ty rsed excess duplicate s bevelopmen	Annot work requirements pe. ds space on this form. hould be submitted to t and Lands Branch:
Type of Survey(s)	in the second	suc : c		Mining Division		Real N	r Area /Fialr= L	-70	JP
Recorded Holder(s)	ASICAC MAGNE					DENN	Prospecto	r's Licence	No.
GULDIZAR ecsouric	to INC. / BLUE	FALCEN 1	NINES	UTD Z	1-3	37'	Telephone	4 /	TINUI
20 ADVANCE B Survey Company	LVD BRAMPT	TN ONT	<u> </u>	t yr7	- <u>.</u>		416-	792-2	335
Name and Address of Author	of Geo-Technical Report)	ADELAIDE	ST.V	J. TORONTI	<u>, on</u>	r <u> </u>	15H IW Date of S	urvey (fror	n & to)
HOWARD BAR	RIE (as ab	(NI					Day N	10. Yr.	23 0 1 90 Day Mo Yr
Credits Requested per E	ach Claim in Column	is at right	Mining (Claims Traversed	(List in n	umerical	sequenc	e)	
Special Provisions	Geophysical	Days per Claim	Prefix	Number	Prefix	Mining Clair Nur	n mber	Prefix	Number
For first survey:	Electromagnetic	[]	P	10941.5 4	D	001	291-		
Enter 40 days. (This include line cuttino)	S Magnetometer		0	1011603			211		
	- Magnetometer		F	1019606		811	242 -		
using the same grid:	- Other		1.1	1294607-		881	293 -		
Enter 20 days (for each)	Geological		<u> </u>	1094608 -	<u>P</u>	881	294-		
	Geochemical		P	1094609-	P	10359	17 9 .		
Man Days	Geophysical	Days per Claim	2	1094610 -	P	1 359	80 .		
Complete reverse side and	- Electromagnetic		P	1094 611 -	P	10359	181		
enter total(s) here	- Magnetometer		0	1091/012 2	D		32		
	Other		P	10196125		123	85		
	- Oliter		F	1049 612-	<u> </u>	8012	034		
	Geological		r r	1014614-	[DE	COD	nen	
	Geochemical		P	1094 615-		nc	CUR	עבע	
Alrborne Credits		Days per Claim	P	1094 6161					
Note: Special provisions	Electromagnetic	40	P	1094 617-		SF	P 13	1990	
apply to Airborne	Magnetometer	40	P	881 286-			, -		
Surveys.	Other		0	201 297-	<u> </u>	1			[
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Total miles flown over	claim(s).	100 Film	7	801 289-		Tota	al number o	1	
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I hereby certify that I have a strength of the second seco	personat and intimate know	ledge of the fact	is set forth ii	n this Report of Work,	having perf	formed the v	work or with	essed sam	e during and/or
Name and Address of Person	Certifying						Λ		
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Sntario	Ministry of Northern Developme and Mines	Report of Work		UMENT 9006•	No. 60484	Instructio - Please t - Refer to and max - If number attach a	ns ype or prinf Section 77, th cimum credit er of mining list.	ne Mining Au s allowed p claims trav	ct for assessing per survey ty persed excee	nent work requirements pe. ds space on this form.
	Mining Act	(Geophysical, Geol	ogical and	Geochem	ical Surveys)	 Technic: Mining L 	al Reports a ands Sectio	nd maps ir n, Mineral	n duplicate s Developmen	hould be submitted to I and Lands Branch:
Type of	Survey(s)		<u></u>		Mining Division		Township o	r Area		0
A	IRBORNE GEO	PHYSICAL .			POVELUANE	- 101	CHAI	Prospect	e Twi	No.
	VE FALCON	MINH UTD		2	13	<u>``</u>	L	7	7)441	
Address								Telephon		7775
Survey C	ompany	BLUD BRANK	~~~ ~~~		<u>167 487</u>	<u>-</u>		011	1920	6333
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Name ar	nd Address of Author (of	Geo-Technical Report)	(xe					24 C	Survey (from	25 07 90
Credits	Requested per Ead	ch Claim in Columns	at right	Mining	Claims Traversed	(List in	numerical	sequent	<u></u>	
Special	Provisions	Gaaphyriaat	Days per		Mining Claim		Mining Clai	m	!	Mining Claim
For first	survey:	Geophysical		Prefix	Number	Prefix	NU	mber	Prefix	Number
Enter	40 days. (This includes	Electromagnetic		r_	1041791	·			-	
line cu	utting)	- Magnetometer		P	1041798	<u> </u>				
For each	n additional survey: e same grid:	- Other		2	1041799	 				
Enler	20 days (for each)	Geological		P	1041900]	
		Geochemical		P	1041801					
Man Da	ys	Geophysical	Days per						-	
Complet	le reverse side and	Electromagnetic								
enter to	tal(s) here	Magnetometer								
		- Magnetometer								
ł		- Other								
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Airborn	e Credits		Days per Claim		050-4-					
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Total. Date SEP	miles flown over cl	aim(s) corded Hpiden pr Agent	bo uni				Tot mir by	al number ning claims this report	of covered of work.	5
Certific	ation Verifying Fer	oort of Work V	\sum_{a}							· · · · · · · · · · · · · · · · · · ·
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Name a	and Address of Person C	Pertifying					1.00	1.1.	- UP 21	
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	and Mines	511(Ϊī	DOCUM	ENT NO.	Refer to Se	e or print. Scion 77, the	e Mining Act	t for assessn	nent work requirements
Ontario		Poport of Worl		W900	06.60485	 If number attach a list 	of mining c	laims trave	rsed exceed	Is space on this form.
	Mining Act	(Geophysical, Geol	ogical and	Geochemi	ical Surveys)	Technical Mining Lai	Reports an nds Section	nd roups in h, Mineral D	duplicate s Development	hould be submitted to and Lands Branch:
Type of S	Survey(s)	011 15	((- 1)		Mining Division	T	ownship or	Area	~ ~	.10
Recorded	Holder(s)	EOPHYSICA	CLEM	, MDG)	PORCUPIN	K	MAC	Prospecto	D r's Licence	No.
BL	UE FALC	ON MINE	es c	TD 2	13	77		T	1441	
Address 20	ADUANCE	BLVD. BRA	AMPTO	2 57	57 UGT	4R7		telephone	, NO. - 792	-2335
Survey C	Company		2010	1				2		a
Name an	Address of Author (of	Geo-Technical Report)	240	AOE		r. W	· 77*	Date of S	Urvey (from	MS/4 IWT 1 & 10)
	CHARLES	BARRIE	Cas	above)			24 0 Day N	7 90 Ao. 1 Yr.	25 07 90 Day Mo. Yr
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opeciai	Provisions	Geophysical	Days per Claim	Prefix	Number	Prefix	Nun	n nber	Prefix	Number
For lirst	survey:	Electromagnetic		P	1071953	P	1070	170Y		
Enter line cu	40 days. (This includes utting)	- Magnetometer		P	1071954	ρ	107	1705		
For each	additional survey:	- Other		P	1071959		-10-1-1			
Entor	9 dave (lor open)	Geological		P	1071960					
Enter	zo days (ior each)	Geochemical		P	1071961					
Man Da	ys	Geophysical	Days per Claim	P	1071962					
Complet	e reverse side and	- Electromagnetic		P	1091105.					
		- Magnetometer		P	1091106	Г			nen	1
		- Other		P	1091107		RE	COR	טבט	
		Geological		P	1091108					
		Geochemical		P	1091109		SE	P 13	1990	
Airborn	e Credits		Days per Claim	P	1091110			······		
Note:	Special provisions	Electromagnetic	40	P	1091111					
	apply to Airborne Surveys.	Magnetometer	40	P	109 1112					-
		Other		P	109/113					
Total	miles flown over cl	aim(s). 44	OKT	P	1087798				. 1	
Dates	r 12/20 Re	offied Holder of Agen	(Signature)	P	102.7799]	Tota mini	il number o ng claims c	1 covered	19
Certific	ation Verifying Re	Contor Work		L	100/11	J	by ti	his report o	f work.	
I hereby after its	certify that I have a pe completion and annexe	rsonal and intimate knowle d report is true.	edge of the fa	cts set forth in	n this Report of Work, I	having perlo	ormed the w	vork or with	essed same	ouring and/or
Name a	nd Address of Person C	ertifying			<u>.)</u>	ر م	77	120	An il	
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Ontario	×.					Noc	and maxir	num credits	allowed pe	er survey typ	De. Is space on t	his form
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Type of	Survey(s)	- 04.15 0	(Cal	M	lining Division	n. <i>o</i>	۲. I	ownship or	Area	0 -	NR	
Recorder	d Holder(s)	EONHATICIA	c (em,	MDO	FURC	ULIV	<u> </u>	MAC	Prospecto	D J	No	
BL	UE FALC	ON MINE	5 1-	TD 9	1	3	77	7 I	T	1441		
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Special	Provisions	Geophysical	Days per	N	lining Claim		1	Mining Clair	n	N	fining Claim	
For first	survey:	Geophysical		Prefix	Numb	er	Prefix	Nur	nber	Prefix	Numb	er
Enter	40 days. (This includes	Electromagnetic		<u> </u>	10719	153	<u> </u>	1070	1704.			
line cu	utting)	- Magnetometer		P	10719	154	r p	1074	1705.			
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enter to	tal(s) here	Electromagnetic			1071	05-	[
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		Geological		Pu	10911	1081		ł				
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Note:	Special provisions	Electromagnetic			1011							
	credits do not	Liechomagnetic	TO	1-1	1091	1110		<u> </u>				
	Surveys.	Magnetometer	40	P_{-}	1091	1121	<u> </u>					
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1,50	Date Approved a	as recorded Provincia	u manager, Mi	ning Lands		1				maafi.1		
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Ministratof Northern Developme Ontaria	ent . Report of Worl		IMENT NO. 0006 • 60481	Instructions • Please type or print. • Refer to Section 77, the Mining At and maximum credits allowed p • If number of mining claims trav attach a list.	ct for assessment work requirements ber survey type. Brsed exceeds space on this form,
Mining Act	(Geophysical, Geol	n logical and G	eochemical Surveys)	Technical Reports and maps Mining Lands Section, Mineral	deficate should be submitted to Development and Lands Branch:
Type of Survey(s) ARBORNE GA Rocorded Holder(s) BLUE FALCON Address	EOPHYSICAL /	Em é m. D	AC PSRC PIN	Telephon	TWP or's Liconce No. 441
20 ADVANCE Survey Company	BUD BR	- steimer	SONT. LOT	427 416	-792-2335
Name and Address of Author (of	Geo-Technical Report)	40 Adria	LIDE ST W. T.	Date of Date of	SH IN 7 Survey (from & to)
CHARLES BA	CREIE (a.	s abre)	Mining Claims Traversed	2 d o Day	7 9 25 07 9 Mo Yr. Day Mo Yr.
Special Provisions		Dave per	Mining Claim	Mining Claim	Mining Claim
For first survey:	Geophysical	Claim	Prefix Number	Prefix Number	Prefix Number
Enter 40 days, (This includes	Electromagnetic		P 924045 -	P. 924217 V	P 485813 -
line cutting)	Magnetometer		P 924046 V.	P19506991	PUTS 814
For each additional survey: using the same grid:	Other		PV 924047 V.	P 950 700 V	P1995 815
Enter 20 days (for each)	Geologicat		P 924048 V.	8 950701 V	P 1995 816
	Geochemical		7 924 649 1.	P 950702 1	P1895817
Man Day RECORD	Sterp ysica	Days per Claim	P 924050/	P 950 703~	D 1995 818
Complete reverse side and	- Electron agnetic		P 924051	12 950 704	D 995 819
ente total(s) nere	Magnetometer		P 1 924 52	DIOSA 705V	P 995 820V
SEP 1 3 1	990 Other		P 924062	2 200 701 1	D 665 821
	Geological		× 121033	PUGS 7.0	2 000 822
A second second			P 129 0572	1 930 7070	P 000 0020
Airborne Credits	Geochemical	Days per	P 424 210V	P 750 10X	1 1995 8234
Note: Considerations		Claim	F 924211 V	P 9507154	1 1995 829
credits do not	Electromagnetic	40	P 924212	P 9507162	P 1995 8254
Surveys.	Magnetometer	40	P 1 924 213	P 995811 L	P 1995 826
	Other		P. 924 2141	P 995 812 4	1995 8274
Total miles flown over ci	a/m(s). 446	0 km.	PV 924 215V		(pius attacress (it))
Date 12/60 Rd	dorded Helderfor Agent	(Signature)	P. 1924 241	mining claims	covered 70
Certification Verifying Rup	port of Work			J by this report	of work.
I hereby certify that I have a per	rsonal and intimate knowle	edge of the facts	set forth in this Report of Work.	having performed the work or wit	nessed same during and/or
Name and Address of Person C	ertifying			1.	
NELL NOVAL	K. BLUE	FALC	of MINES 1	JD. 20 May	NLA BUD!
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additional claims for Report of Walk. P + 895828* P + 995829V P-1/985830V P. 4. 995 831 pf995832 ₽-995 833 × P-/9572651 p-,957 266 V pl/959 267 P-957268 V 2.13771 Rt 1071958 · P-1071971 p- 1071972 P-1075238 6 p-1075239 -P-1114058 p- 11 14059 V P- 1114060/ p-1114061. p-987537 : p- 831298 SEP 1-3 -200 /P-881299 /P-881300 y Mr

Ministry of Northern Development Ontario	ent	DOC	UMEN	T NO.	Instruction - Please ty - Refer to S and max	ns /pe or print. Section 77, th imum credits	e Mining Act	t for assessmer survey ty	sent work requirements pe.
Mining Act	Report of Worl	k LA	9000		 It numbe attach a Technica 	ir or mining i list. I Reports al	no maps in	duplicate s	hould be submitted to
Type of Survey(s)			N N	Aining Division	Mining L	Township of	r Area	evelopmen	and Lands Branch:
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20 ADVANCE	- BLVD. B	RAMPTO	2 01	NT 16T	4R-	≁ ∙	Telephone 4/6	no.	1-2335
Survey Company		4D 400G	Ain	(T (T))	TAA	The state	The	NCH	147
Name and Address of Author (of	Geo-Technical Report)	io nie	Unip		1 910		Date of S	urvey (fror	n & to)
HOWARD B	ARRIE (as	obv)					Day N	10. Yr.	25 07 90 Day Mo. Yr.
Credits Requested per Ea	ch Claim in Columns	s at right	Mining C	laims Traversed	(List in r	numerical	sequenc	e)	lining Claim
	Geophysical	Days per Claim	Prelix	Number	Prelix	Nui	m / M	Prefix	Number
For inst survey.	- Electromagnetic		PV	1035999 1					
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For each additional survey:	- Other		P	1036001				· · · · · · · · · ·	
Enter 20 days (for each)	Geological		P	1036002					
	Geochemical		P	1036003	1				
Man Days	Geophysical	Days per Claim	PV	1075230	1				
Complete reverse side and enter total(s) here	- Electromagnetic		P/	1075231	1				
	- Magnetometer		Pr	1075232 .	1	F	RECO	DDr	
	- Other		PV	10757221	1.			unt	U
	Geological		P./	1075234	1	11			
	Geochemical		pr	1027255	1	11	SEP-1	3 199	0
Airborne Credits		Days per	2/	1075236	1	1			
Note: Special provisions	Electromagnetic	40	2/	1075222	ł				
credits do not apply to Airborne	Magnetometer	40	21	INGLING	∤───	-			
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Date Re	cerded Holder of Agent (Signature)			-	Tota	al number o	f	1.5
Sept 12/90 1	JULAI		L		J	by 1	this report o	f work.	15
I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or									
Name and Address of Person C	ertilying	••••••••••••••••••••••••••••••••••••••			·····				{
KEL D NULAK, LO ADVANCE BLUD- BRAMPTON CNST. LGTIYETA									
Telephone No. 416-792-2335 Dept. 12/90 X M									
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Total Days Date Recorded	Mc 19 B	crider	{ 		W. CI	CD 191	200 000	1	
Cr. Recorded 9507, 13/90 Hour Curling SEP 13 1990									
Date Approved a	as Recorded Provincia	al Manager, Mini	ng Lands		2.00	····	110	<u>(}</u>	
1 362 (8 9.06)						* *••••			

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Ministry of				Instruction	· Aer	E+3	<u>-</u>	
and Mines	ent	DOC	UMENT No.	 Please ty Refer to S 	pe or print. Section 77, the Mining A	ct for assessn	nent work requirements	
Ontaric		W	9006·60483	and maxi - If numbe	mum credits allowed p r of mining claips trav	per survey typersed except	pe. Is space on this form.	
	Report of Wor	k		attach a • Technica	list.	n duplicate si	hould be submitted to	
Mining Act	(Geophysical, Geo	logical and	Geochemical Surveys)	Mining L	ands Section, Mineral	Development	and Lands Branch:	
Type of Survey(s) AIRBORNE GEOPHYSICAL MAGNETICS i EM PORCUYINE BENNEWES TWP Percented Holdaric)								
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For each additional survey:	- Other		P 1394607+	> PV	581292			
Enter 20 days (for each)	Geological		P. 10946031	P.	881 294.			
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Man Days	Geophysical	Days per Claim	8,110946108	P	135980			
Complete reverse side and enter total(s) here	- Electromagnetic		P /1694 611 -	PV	1035981			
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Certification Verifying Report of Work								
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Name and Address of Person C	Certifying		~ ~	<u> </u>	A.	~ 14	TINT	
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MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6. 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.G. 1978, CHAP. 380, SEC. 63, SUBSEC 1.

EAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY

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MINING AND SURFACE RIGHTS

P. IS SUBJECT TO FOREST ACTIVITIES IN 1990. RINFORMATION AVAILABLE ON FILE.

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THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MIN-





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LEGEND
HIGHWAY AND ROUTE No.
TOWNSHIPS, BASE LINES, ETC.
UNSURVEYED LINES:
PARCEL BOUNDARY
RAILWAY AND RIGHT OF WAY
UTILITY LINES
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
ORIGINAL SHORELINE
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TYPE OF DOCUMENT
PATENT, SURFACE & MINING RIGHTS
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ORDER IN COUNCIL
RESERVATION
SAND & GRAVEL
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR 1913, Vested in Original Patentee by Th Lands Act, R.S.O. 1970, CHAP. 350, Sec. 63
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DEC 27 1990
BENNEWEIS
M.N.R. ADMINISTRATIVE DISTRICT
GOGAMA
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY
Ministry of Land
Natural Management
Ontario
Date MARCH, 1985 Number
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LEGEND HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. UNSURVEYED LINES: LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. RAILWAY AND RIGHT OF WAY = ====== UTILITY LINES ***** NON-PERENNIAL STREAM <u>مممممممه</u> FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN MIN MANININA RESERVATIONS ·· + 200 78 14 5 · 414 (2 5 ORIGINAL SHORELINE MARSH OR MUSKEG MINES TRAVERSE MONUMENT **DISPOSITION OF CROWN LANDS** TYPE OF DOCUMENT SYMBOL PATENT, SURFACE & MINING RIGHTS _ , SURFACE RIGHTS ONLY_ MINING RIGHTS ONLY LEASE, SURFACE & MINING RIGHTS " , SURFACE RIGHTS ONLY , MINING RIGHTS ONLY LICENCE OF OCCUPATION ORDER-IN-COUNCIL C RESERVATION CANCELLED \odot SAND & GRAVEL ___ NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY S 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 300, BEG. 63, SUBSEC 3 SCALE: 1 INCH = 40 CHAINS FEET 1000 2000 200 12.49 METRES 23 TOWNSHIP CHESTER M.N.R. ADMINISTRATIVE DISTRICT GOGAMA MINING DIVISION PORCUPINE LAND TITLES / REGISTRY DIVISION SUDBURY Ministry of Land R Natural Management Resources Branch Ontario Number Data MARCH, 1985 G-3223 ACTIVATED SEP. 5/89

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M.R.O. - MINING RIGHTS ONLY

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THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MIN-ING CLAIMS SHOULD CON-





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