

41P06NW0012 2.8211 GARIBALDI

REPORT ON AIRBORNE GEOPHYSICAL SURVEYS METEOR LAKE AREA SAULT STE. MARIE MINING DIVISION ONTARIO

BY .

H. FERDERBER GEOPHYSICS

FOR

HARLIN RESOURCES LIMITED

RECEIVED

JUN 14 1985

MINING LANDS SECTION

JUNE 10, 1985

FENTON SCOTT, P. ENG.

010

INTRODUCTION

An airborne geophysical survey was carried out over a claim group in the Meteor Lake Area, Algoma District of Ontario, by H.Ferderber Geophysics.

Data was collected on VLF-EM magnetometer responses. The survey was flown from a base at Timmins, Ontario.

PURPOSE OF SURVEY

The Survey was designed to provide data which would:

1. Permit an interpretation of geological structure through recording variations in the magnetic mineral content of the formations underlying the survey area.

2. Identify potentially economic mineral concentrations which may have marked variation in accessory magnetic minerals.

3. Identify linear structures, such as major shear zones, which may result in current concentration of VLFsignals. Such structures may contain economic minerals, " notably precious metals."

4. Identify shallow, potentially valuable metallic sulfide deposits whose lower electrical resistance will localize secondary VLF-EM fields.

5. Identify areas of near surface conductivity which may be indicative of clay lenses in the local glaciofluvial overburden type.

SURVEY AREA

The survey covered a 20 square mile block in Garibaldi, Moffat, and Beulah Townships, Larder Lake Mining Division, Ontario.

The 294 mining claims included in the survey are shown on the maps in an attached pocket.

EQUIPMENT

The aircraft used in this survey was a Cessna 172 owned and operated by H.Ferderber Geophysics. The sensors for geophysical data were mounted in modified wing tip installations.

<u>Magnetometer</u> The instrument used was a GEM GSM - 18 BA proton precession type. The sensitivity of the device was set at 2 gammas at a 1 second sampling rate. Data was recorded on paper on an on-board recorder.

<u>VLF - EM System</u> The instrument used was a Herz Totem 1 A. The total field and vertical resultant field was recorded on analogue tape. The transmitter station for this survey was Annapolis, Maryland, at a frequency of 21.4 kiloherz. The system was accurate to 1%.

SURVEY METHOD

The aircraft was flown at a terrain clearance of 250 feet. Navigation consisted of reference to an air photo mosaic, with manual fiducials recorded on the mosaic simultaneously with the geophysical tapes. Line direction was East-West, and line spacing was 1/12 mile (440,feet).

-2-

DATA PRESENTATION

Flight lines, fiducial points, and geophysical responses are shown on air photo mosaics at a scale of 1/15, 840 (quarter mile). These mosaics also show the outlines of the individual claim groups, together with enough claim numbers to permit indentification.

<u>Magnetic Contour Maps</u> Correction of the aeromagnetic data for diurnal variation was by reference to crosslines. The corrected profiles were then reduced to appropriate field strength intervals, and presented as contours at 20 gamma intervals.

<u>VLF-EM Maps</u> The axes of conductivity were selected on each analogue tape, and transferred to the mosaics with reference to fiducial points. These axis are further discriminated between those conductors showing an increass in total field strength, and those whose position only relates to "crossover" points on the vertical field components.

DISCUSSION OF RESERVES

MAGNETOMETER SURVEY

There is a series of magnetic highs trending north-northeast through the claim group. Some suggestion of folding to a south direction in the southerly 1/3 of the claims.

AIRBORNE VLF SURVEY

A total of 26 conductor axes were selected from the tapes for discussion. The majority of these are considered to be caused by conductive overburden, either silts or clays. The remarks on the 26 selections are as follows:

- 1. Probably overburden effects from silts of Deschenes Creek in lake.
- 2. Interpreted as silts in bay of lake
- 3. Interpreted as silts
- 4. Interpreted as silts, coincides with magnetic high
- 5. Possible bedrock conductor

-3-

6. Interpreted as conductive silts

7. Silts

8. Conductive silts(?) coincides with magnetic high

9. Possible bedrock or clay lenses

10. Silts

11. Silts

12. Silts, on magnetic high

13. Possibly bedrock or clay lenses

14. Silts

15. Possible bedrock or clay lenses

16. Conductive overburden or clau edge effects

17. Silts or clay

18. Silts

19. Possible extensions of 16 - Some coincident magnetics

20. Conductive sheet edge effects, magnetic high

21. Unknown, possibly bedrock

22. Bedrock or clay lens .

23. Silt

24. Silt

25. Silt

26. Silt

Auto



900

Mining Lands Section

File No 2.8211

Control Sheet

TYPE OF SURVEY _____GEOPHYSICAL _____GEOLOGICAL _____GEOCHEMICAL _____EXPENDITURE

MINING LANDS COMMENTS:

.

Signature of Assessor

6/85

Date

lgd

1985 08 02

Your File: #175 Our File: 2.8211

Mining Recorder Ministry of Natural Resources 4 Government Road East Kirkland Lake, Ontario P2N 1A2

Dear Sir:

RE: Notice of Intent dated July 15, 1985 Geophysical (Electromagnetic & Magnetometer) Surveys on Mining Claims L 634802, et al, in Beulah, Garibaldi & Moffat Townships

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 Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-4888

D. Isherwood:mc

- cc: Harlin Resources Ltd Suite 810 625 Howe Street Vancouver, B.C. V6C 2T6
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario
- cc: Harry Ferderber 169 Perreault Avenue Val d'Or, Quebec J9P 2H1 cc: Ø. Scott
 - 17 Malabar Place Don Mills, Ontario M3B 1A4
- cc: Resident Geologist Kirkland Lake, Ontario

Encl.



Technical Assessment Work Credits

File 2.8211
Mining Recorder's Report of Work No. 175

1985 07 15

Date

175

Recorded Holder HARLIN RESOURCES LIMITED

ources

Township or Area BEULAH, GARIBALDI, MOFFAT

Assessment days cre	dit per claim		Minii	ng Claims Assessed	
Geophysical		/		· · · · · · · · · · · · · · · · · · ·	
	30	L 634802			
Electromagnetic	days	634817 t	to 826	incl	
	30	743421 t	to 440	incl	
Magnetometer	days	743566 t	to 590	incl	
		748901 t	to 957	incl	
Radiometric	days	748959 t	to 962	incl	
		748965			
Induced polarization	days	748969 t	to 972	incl	
		748976			
Other	days	748978 t	to 999	incl	
		749001 t	to 024	incl	
Section 77 (19) See "Mining Ci	laims Assessed" column	749026 t	to 043	incl	
		749051 t	to 065	incl	
Geological	days	749552 t	to 634	incl	
		749637 t	to 656	incl	
Geochemical	days				
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Man days					
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Ministry of Natural Resources

July 30/85

1985 07 15

Your File: #175 Our File: 2.8211

Mining Recorder Ministry of Natural Resources 4 Government Road East Kirkland Lake, Ontario P2N 1A2

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.

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

. <u>D9</u>D. Isherwood:mc

Encls.

- cc: Harlin Resources Ltd Suite 810 625 Howe Street Vancouver, B.C. V6C 2T6
- cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

cc: Harry Ferderber 169 Perreault Avenue Val d'Or, Quebec J9P 2H1 cc: F. Scott 17 Malabar Place Don Mills, Ontario M3B 1A4

845



Ministry of Natural Resources

Notice of Intent for Technical Reports

1985 07 15

2.8211/175

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.

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Mitpicky of Rep	ort of Work		000)_\\ In	structions: —	Please type or print.	.#1/3
Resources (Geo	physical, Geological,		20	F.	-	If number of mining exceeds space on this	claims traversed form, attach a list.
Ontario Geoc	hemical and Expendi	tures)	v		Note: -	Only days credits on "Expenditures" section	alculated in the n may be entered
(Pili I	63481))	The Minin	g Act	-	in the "Expend. Da Do not use shaded area	ys Cr." columns. Is below.
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Airborne Ma Claim Holder(s)	gnetic and V	LF-EM			B	Prospector's Licence N	10.
Harlin Reso	urces Ltd.					T1707	
810-625 How	e Street, Va	incouv	er, B.C	C. V6C 2	Т6		
Survey Company				Date of Survey	(from & to)	Total Miles	of line Cut
H. Ferderbe	r Geophysics	s Ltd.		Day Mo.	Yr. Day	Mo. Yr. 260	
F. Scott, 1	7 Malabar Pl	lace,	Don Mi	lls, Ontar	io		
Credits Requested per Each C	Claim in Columns at r	ight	Mining C	Claims Traversed (List in nume	erical sequence)	
Special Provisions	Geophysical	Days per Claim	Prefix	Aining Claim Number	Expend. Days Cr.	Mining Claim Prefix Numb	Expend. Br Days Cr.
For first survey: Enter 40 days, (This	- Electromagnetic		L	634802			
includes line cutting)	Magnetometer		and the second sec	See atta	ched		
For each additional survey:	- Radiometric		a para ang ang ang ang ang ang ang ang ang ang ang	List			
using the same grid:	- Other						
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Airborne Credits		Days per Claim			ING DIV.		
Note: Special provisions	Electromagnetic	34.1		REG			
credits do not apply to Airborne Surveys.	Magnetometer	34 1			* 0 1025		
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Expenditures (excludes pow	er stripping)			7 18 19110111	1211121310	41316	
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Date April 26, 1985	corded Holder or Agenty	Signature)] 0.0	Date Approved	d as Recorded	Branch Director	. +
Certification Verifying Repr	Uni halk			see	rws	17 sarenies	<i>v</i> .
I hereby certify that I have a	personal and intimate k	nowledge o	of the facts set	forth in the Report	t of Work ann	exed hereto, having perfe	ormed the work
or witnessed same during an	d/or after its completion	and the an	inexed report	is true.			
Harry Ford	erber. 169 P	erreau	ult Ave	nue. Val d	l'Or	Очерес Тар	2H]
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page lof 3

305 CL - GARIBALDI, MOFFAT AND BEULAH TOWASHIPS

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305 CL - GARIBALDI J MOFFAT + BEULAH TOWNSHIPS

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page. 3 of 3



305 CL - GARIBALDI, MOFFAT + BEWLAH TOWNSHIPS

GARTBLADI TOWNSHIP - 23 cl



OFFICE USE ONLY

Ministry of Natural Resources

File_

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) AIRBORNE MAGNETK, VLF-EM	
Township or Area GARIBALDI, MOFFATT, BEULAH.	
Claim Holder(s) HACLIN RESOURCES, RAYMOND CULLINS,	List numerically
DAVID LARCH ET. M.	
Survey Company H. FERDERBER GEOPHYSICS.	L743421 ETAL.
Author of Report FENTIN SCOTT	(prefix) (number)
Address of Author 17 MALABAR PLACE, DON MILLS, ONT	- LIST ATTACHED
Covering Dates of Survey MANCH 20 - MARCH 255/100	~
FLOWN (linecutting to office)	-
Total Miles of Line Cur. 221	-
OVER CLAIMS	
SPECIAL PROVISIONS DAYS	
<u>CREDITS REQUESTED</u> Geophysical per claim	
ENTER 40 days (includes – Electromagnetic	
line cutting) for first Magnetometer.	
survey. –Radiometric	RECEIVED
ENTER 20 days for each -Other	HIN 1 / 1095
additional survey using Geological	
same gria. Geochemical	MNING-LANDS-SECTION
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
Magnetometer <u>30</u> Electromagnetic <u>30</u> Radiometric	—
(enter days per claim)	~
DATE: fun 10/85 SIGNATURE: Jento fork	
Res Geol Qualifications 63, 1263	
Previous Surveys	—
File No. Type Date Claim Holder	
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	•
	• • • • • • • • • • • • • • • • • • • •
]	TOTAL CLAIMS 294

GEOPHYSICAL TECHNICAL DATA

	GEOPHYS	SICAL TECHNICAL I	DATA	- H
<u>c</u>	ROUND SURVEYS – If more than one survey,	, specify data for each	type of survey	
N	umber of Stations		r of Readings	~
S	tation interval	Line sp	acing	
P	rofile scale			
С	ontour interval			· · · · · · · · · · · · · · · · · · ·
		<u>.</u>		
g	Instrument		,	
E	Accuracy - Scale constant	······································		and a set of the second se
CON	Diurnal correction method			
W	Base Station check-in interval (hours)			
	Base Station location and value	· · · · · · · · · · · · · · · · · · ·		
				·····
S	Instrument			
E N	Coil configuration			
IAG	Coil separation			
Š.	Accuracy			
E	Method: L Fixed transmitter	Shoot back	in line	L Parallel line
ELE	Frequency	(specify V.L.F. station)	,	
	Parameters measured	· · · · · · · · · · · · · · · · · · ·		
	Instrument		<u></u>	
~	Scale constant			<u>,</u>
E	Corrections made		<u> </u>	
KA		·	<u></u>	
3	Base station value and location			
				· · · · · · · · · · · · · · · · · · ·
	Elevation accuracy			<u> </u>
	Instrument			
Į	<u>Method</u> 🖾 Time Domain		Frequency Domain	
	Parameters – On time		Frequency	
1 1	– Off time	<u></u>	Kange	
M	– Delay time			
ISI	- Integration time			
RES	Power	****		
	Electrode array			·
	Electrode spacing		<u></u>	
	Type of electrode			



SELF POTENTIAL	
Instrument	
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	5
Overburden	
(type, depth include	le outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	
AIRBORNE SURVEYS	
Type of survey(s) VLF-EM	MAGNETOMETER
Instrument(s) TOTEM IA	GEN GSM-18BA
Accuracy I 70 (specify for each typ	c of survey) 2 GAMMAS
Aircraft used CESSNA 172	c of survey)
Sensor altitude 250 FEET	۰
Navigation and flight path recovery method	HAVIGATION, MANUAL FINGLALS
SIMULTANEOUSLY ON ANALOLUE TAVES	AUD ON- BUARD PHETOMOSAICS
Aircraft altitude 290 FEET	Line Spacing 440 FEET.
Miles flown over total area 272	Over claims only 221

272 Miles flown over total area.

Over claims only...

GEOCHEMICAL SURVEY - PROCEDURE RECORD

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Numbers of claims from which samples taken_____

Total Number of Samples	A KI & I UDIO	AT MERTION	.0
Type of Sample	ANALYTIC	AL METHOD	2
(Nature of Material)	values expressed in:	per cent p. p. m.	
Average Sample Weight		p. p. b.	
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. (····	tests)
	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		
	Reagents Used	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Concerci	General	- <u></u>	
General			
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23	78	18 /	48 -	88	19	<u>s</u> e
z4 ·	79	19 /	· 49 -	89 1	zo	60
25	80	20 /	50-	901	21	64
26	81	21 -	51 -	91-	22'	62
<u>27</u> ·	82	22 /	52-	921	23'	63
28	83	23 /	53 -	93 /	24	64
29	84	24	54	94 -	26	65
3Ö ·	85	251	53~/	95-1	27'	749552
31	86	26'	56-	96 1	28	53
32 '	87	27 -	57-	97 /	30	54
33 .	53	28	ડ્ય ⁄	9 9 /	31	555
<u> </u>	BY	29 '	60'	99 -	32	. 56
· 35 ·	90	30	61/74	9001 1	33	57
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. 37	02 /	32'	.65-1	031	35-	53
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<u> </u>	64	341	70'	01-1	37	. 61
40 .	05-1	35-1	710	061	38	62
743566	06	36	72/	67 -	39	63
- 67	٥٦	37 /	76 -	08 -	40 -	64
<u> </u>	08 -	38 /	78 '	09	4)	61-
· 69 ·	09	39 /	79 /	10	<u>مح</u>	66
- 70 .	10	40 /	80 1	11 -	43	67
<u>· 71 ·</u>		41/	81 -	12- 74:	0051	68
· 72 ·	12	42 /	821	13 -	52	69
. 73	13	43 /	83 -	. 14 -	53	70
. 74	14	44 /	84 /	15-	54	71
• 75	15-/	45 /	85-1	16 /	53-	72
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KESOKLES	
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L749573	L749603	L799634		PAGE 2 OF 2
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