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REPORT ON

AIRBORNE GEOPHYSICAL SURVEYS

IN

BOND AND SHERATON TOWNSHIPS

ONTARIO

FOR

SUMACH RESOURCES, INC.

BY

H. FERDERBER GEOPHYSICS

RECEIVED

UEC 0 9 1985

MINING LANDS SECTION

DECEMBER 4, 1985

FENTON SCOTT, P. ENG.

INTRODUCTION

An airborne geophysical survey was carried out over a claim group in Bond and Sheraton Townships, Cochrane District of Ontario, by H. Ferderber Geophysics.

Data was collected on VLF and magnetometer responses. The survey was flown from a base at Val d'Or, Quebec. The survey directly over the 60 Sumach claims was 45 miles.

PURPOSE OF SURVEY

The survey was designed to provide data which would:

- Permit an interpretation of geological structures 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 variations in accessory magnetic minerals.
 - 3. Identify linear structures, such as major shear zones, which may result in current concentrations of VLF-signals. Such structures may contain economic minerals, notably precious metals.
 - 4. Identify shallow, potentially valuable metallic sulfide deposits whose lower electrical resistances give resultant secondary VLF-Em fields.

SURVEY AREA

The survey covered a claim block in Bond and Sheraton Townships, Porcupine Mining Division, Ontario. The 60 unpatented mining claims included in the survey are shown on the map 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.

Magnetometer 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. Analogue data was recorded on paper on-board.

VLF - EM System 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 Seattle, Washington, at a frequency of 24.8 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 mosaic, with manual fiducials recorded on the mosaic simultaneously with the geophysical tapes.

Line direction was North-South, and line spacing was 1/12 mile (440 feet).

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 claim group, together with enough claim numbers to permit identification.

Magnetic Contour Maps Correction of the aeromagnetic data for diurnal variation was by reference to a cross-line. 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 axes are further discriminated between those conductors showing a variation in total field strength, and those whose position only relates to "crossover" points on the resultant vertical field geometry.

SUMACH RESOURCES

MAGNETOMETER SURVEY

Two magnetic features were identified in the survey. One trends northeast with a maximum amplitude of 900 gammas and is probably magnetite in basic volcanics. The second appears to be caused by a north-striking diabase dyke cutting all of the older rock units.

VLF - EM SURVEY

A number of conductor axes were indicated in the survey. Those which appear to be related to bedrock features are numbered. This numbering has no implication of priority.

- (1) and (6) On north flank of magnetic trend possible overburden
- (2) and (4) On weak magnetic high
- (3) Isolated
- (5) Possibly overburden, follows bedrock magnetic trends
- (7) Apparently bedrock, interpreted by diabase dyke
- (8), (9), (10) Isolated

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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/or after its completion and the annexed report is true.

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Ministry of Natural Resources Report of Work

(Geophysical, Geological, Geochemical and Expenditures) #366/85

Instructions: - Please type or print.

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Certification Verifying Report of Work

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Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

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Ministry of Natural Resources Report of Work

(Geophysical, Geological, Geochemical and Expenditures) 369/85

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If number of mining claims traversed exceeds space on this form, attach a list.

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Certification Verifying Report of Work

OFFICE USE ONLY



Ministry of Natural Resources

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.

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ENTER 40 days (incline cutting) for first survey. ENTER 20 days for eadditional survey usin same grid.	udes ach g	-Electromagnetic -Magnetometer -Radiometric -Other Geological Geochemical	
Magnetometer 30 F	Clectromagnetic (enter days p	RP: Author of Report or Agent	RECEIVED
File No. Type	Date	Claim Holder	UEC 0 9 1985
			MINING LANDS SECTION
			TOTAL CLAIMS 60

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of S	tations		A7 1	r of Readings	
Station inter	val		Numbe	r of Readings	
Profile scale			Line sp	acing	
	* ***				A
Instrumen	t				
Accuracy Diurnal co Base Static	- Scale constant				
Diurnal co	rrection method			1.73	
Base Statio	on check-in interval	(hours)	≠×	Sec. 2014 (1981)	2 <i>j</i>
~~ 4	on location and value	ie			
			*//		
O Instrument	t				
Instrument Coil config Coil separa Accuracy Method: Frequency	uration				
Coil separa					
Accuracy_					
Method:		Fixed transmitter		☐ In line	☐ Parallel line
이 Frequency.					raranci mic
			(specify V.L.F. station)		
Tarameters	measureu		· · · · · · · · · · · · · · · · · · ·	i	
Instrument					
Corrections					
Corrections	,				
겍	n value and location	1			
			•		*
Elevation a					
	,		33 33 33 33 33 33 33 33 33 33 33 33 33		
Instrument					
Method [3.Time Domain	Z. '	I	Frequency Domain	
Parameters	- On time		I	requency	
	- Off time		I	Range	
VII	Dolay time				
ST					
RESISTIVITY Lower —					
	rray				
Electrode s	pacing				
Type of ele	ctrode				

INDUCED POLARIZATION

SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
(type, depth — inc	clude 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	MAG NETOMETER
Instrument(s) TOTEM A	GEH-GSH IC BA
(specify for each t	type of survey) 2 GAMMA-
(specify for each	
Aircraft used CESSMA 172	
Sensor altitude 250'	
Navigation and flight path recovery method	
MIOUCIANS ON AIR PHOT	MOSAICS
Aircraft altitude Z 501	Line Spacing 330!
Miles flown over total area 82	Over claims only 45-

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken			
Total Number of Samples	ANALYTIC	AL METHOD	<u>s</u>
Type of Sample(Nature of Material) Average Sample Weight		per cent p. p. m. p. p. b.	
Method of Collection			As,-(circle)
Soil Horizon Sampled	Others		-
Horizon Development	Field Analysis (· · · · · · · · · · · · · · · · · · ·	tests)
Sample Depth	Extraction Method		
Terrain	n		
Drainage Development	Field Laboratory Analysi	s	
Estimated Range of Overburden Thickness	Promontion Marks of		•
	Reagents Used		
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis	Commercial Laboratory (10 ⁻² 10-10-10-10-10-10-10-10-10-10-10-10-10-1	tests
	Analytical Method		
	Reagents Used		
General	General		
		· ·	
		·	

LIST OF MINING CLAIMS

S	MACH RESOURCE	S LTD.
P 756482.	P 798301.	P 7960021
83 .	02.	<u> </u>
84	03.	ca —
85	04'	65
86 .	01-1/	06 · V
87 ·	06 2	
88		P808807'
89 ·	P195502,	•8./
	63	69 * /
795030	/ 04 ·	
,	05.	P805819 .~
31 -	06.	
32 ·	07 '	P833111.
33 •	98 .	12.
34 .		13 •
34.	09 -	14 —
36 ·	10	
37 ·	11 —	
38	12.	
39 ·	13	TOTAL GO CLAIMS
40'	14	TOTAL GO CLAIMS
41 -	15	
42.	16	
43 .	17:4	
44 •)	
45.	P796001 .	

November 27, 1985

Report Of Work #364

Larry John Salo General Delivery Connaught, Ontario PON 1AO

Dear Sir:

RE: Mining Claims P 795030, et al, in Bond & Sheraton Townships

I have not received the reports and maps (in duplicate) for the Airborne (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on October 8, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on December 7, 1985.

If the material is not submitted to this office by December 7, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Hr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

AB/mc

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Mining Recorder Timmins, Ontario

Encl.

November 27, 1985

Report Of Work #365

Randal Salo General Delivery Connaught, Ontario PON 1AO

Dear Sir:

RE: Mining Claims P 795502, et al, in Bond & Sheraton Townships

I have not received the reports and maps (in duplicate) for the Airborne (Electromagnetic & Magnetometer) Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on October 8, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on December 7, 1985.

If the material is not submitted to this office by December 7, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

AB/mc .

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Mining Recorder Timmins, Ontario

Encl.

November 27. 1985

Report Of Work #366

Daniel Lacroix c/o Don McKinnon Connaught, Ontario PON 1AO

Dear Sir:

RE: Mining Claims P 795301, et al., in Bond & Sheraton Townships

I have not received the reports and maps (in duplicate) for the Airborne (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on October 8, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on December 7, 1985.

If the material is not submitted to this office by December 7. 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

AB/mc

Enc1.

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Mining Recorder Timmins, Ontario

November 27, 1985

Report Of Work #367

Ernest Sicard c/o Don McKinnon Connaught, Ontario PON 1AO

Dear Sir:

RE: Mining Claims P 756482, et al., in Bond & Sheraton Townships

I have not received the reports and maps (in duplicate) for the Airborne (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on October 8, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on December 7, 1985.

If the material is not submitted to this office by December 7. 1985 I will have no alternative but to instruct the Hining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

AB/mc

Encl.

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4

Mining Recorder Timmins, Ontario

November 27, 1985

Report Of Work #368

Yvon Grondin c/o Don McKinnon Connaught, Ontario PON 1AO

Dear Sir:

RE: Mining Claims P 796001, et al, in Bond & Sheraton Townships

I have not received the reports and maps (in duplicate) for Airborne (Electromagnetic & Magntometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on October 8, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on December 7, 1985.

If the material is not submitted to this office by December 7, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

AB/mc

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A4
Encl.

Mining Recorder Timmins, Ontario REGISTERED Report Of Work #369 November 27, 1985 Edward J. Korba c/o Don McKinnon Connaught, Ontario PON 1AO Dear Sir: RE: Mining Claims P 805807, et al, in Bond & Shearaton Townships I have not received the reports and maps (in duplicate) for Airborne (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims. As the assessment "Report of Work" was recorded by the Mining Recorder on October 8, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on December 7, 1985. If the material is not submitted to this office by December 7, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets. For further information, please contact Mr. Arthur Barr at (416)965-4888. Yours sincerely, S.E. Yundt Director Land Management Branch Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888 AB/mc Mining Recorder cc: Fenton Scott Timmins. Ontario 17 Malabar Place Don Mills, Ontario M3B 1A4 Encl.

Mining Lands Section

File No 2.87//

Control Sheet

	TYPE OF SURVEY	GEOPHYSICAL
		GEOLOGICAL
		GEOCHEMICAL
		EXPENDITURE
INING LANDS	COMMENTS:	
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h .		1 Stust
d		Cignature of Aggaggar
		Signature of Assessor
J		
		pr3/86.
		Date

SHERATON TOWNSHIP MINING DIVISION PORCUPINE MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH M 386 DISTRICT OF COCHRANE 2871121 SCALE 40 CHAINS TO ONE INCH 1 UP Lations BOND TWP (1)(1) 195008 79501 795032 795504 578569 7956 794619 1793636 79565 79568 195511 79H69 791168 795634,795406 -1(P)--(P) R_3 MRO 795935 795507 P 805 76 41 805 765 185766 T.C. W. F 92234/ 822390 812387 5 R U 805714 180571 5 805715 OSRO IR OPEN 7994921799495 322416 822417 901611 DOISS 799612 199513 (1)P 8224191822418 6 610 601539 799515 799514 799 495 822420 822421 812377 8723771812380 (P) (H) 922423:822422 822381 82238 0.0 799467 1 1 1377 122 798 80/5/2 180/536 199 468 222393 822294 922401 822 400 822399 001653 001537 799 96 9 1799470 799517 کر (۱) | gazyez 799 519 1799 518 (P)', (P) (9) SRU 4120 MRO ! **O** SR. 5 R O **(P)** P **(P)** 607234 DISTRIC BOUNDA 12 5 10 9 8 3 2 TWP TIMMINS 400 Surface rights reservation around all lakes and rivers LEGEND REGISTERED PLAN OF SUBDIVISION PATENIED LANDS 99 CROWN LAND SALES 14446 210

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