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GEOPHYSICAL REPORT

ON

THOMPSON CLAIMS

ROSNEL SIDING

SHARRON LAKE AREA

DISTRICT OF KENORA

BY

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

TOKONTO, ONTARIO

DECEMBER 1970



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ACCOMPANYING MAPS

EM-16	Survey	Profiles	5	Scale:	1	inch	to	400	feet
EM-16	Survey	Station	Readings	Scale:	1	inch	to	400	feet

INTRODUCTION

During the month of September 1970, an EM-16 electromagnetic survey was conducted over a property optioned to Asarco Exploration Company of Canada Limited. The property is located in the Sioux Lookout area, District of Kenora, Ontario. The survey was carried out by a geophysical crew from Asarco.

The results of the survey are shown on the maps accompanying this report.

SUMMARY & RECOMMENDATIONS

A ground electromagnetic survey, using an EM-16 unit, was carried out over the claim group. The readings obtained growed large variations of the secondary rield throughout the property. These anomalous conditions can be contributed to the rail line which passes through the claims and to swamp conditions that exist in other ports.

No anomaly was indicated by the EM-16 survey that can be considered to be indicativ. of a mineralized zone.

As the geophysical data available ... inconclusive, it is recommended that any further work ...dertaken should be in the form of a different geophysic.' technique, prior to carrying out a drilling programme.

PROPERTY, LOCATION & ACCESS

The property discussed in this report consists of a group of 41 contiguous mining claims. However, the present survey was conducted over only 18 of these claims which are designated by the following numbers:

PA44954, PA44957, PA26248, PA275370 PA272336 - 8 inclusive PA272342 - 5 inclusive PA272356 - 8 inclusive

The claim group is located along the Canadian National Trans-Canada Railway at Rosnel Siding, some 17 miles east of Sioux Lookout.

Access to the property is readily obtainable by means of float plane from Sioux Lookout to Botsford Lake, which lies along the north boundary of the claim group.

INSTRUMENT & SURVEY DATA

The survey was conducted over previously cut lines spaced at 400 foot intervals across the property and oriented approximately north-west. The lines were picketed every 100 feet. A total of 12.25 miles of grid line and base line were cut and picketed.

The electromagnetic survey was carried out using a Geonics' EM-16 unit. The EM-16 is a sensitive receiver covering the frequency band of the new V.L.F. transmitting stations, with a means of measuring the vertical field components. The V.L.F. transmitting stations, operating for communications with submarines, have a vertical antenna. The antenna current is thus vertical, creating a concentric horizontal magnetic field around them. When these magnetic fields meet conductive bodies in the ground, there will be secondary fields radiating from these bodies. The EM-16 equipment measures the vertical component of these secondary fields.

The receiver has two inputs with two receiving coils built into the instrument. One coil has a normally vertical axis and the other, a horizontal one. Secondary fields, caused by conductive bodies, are theretore measured by the EM-16 by the angle of dip on the instrument and by measured percentage of the out-ofphase component to give a null signal in the head set. Any deviation from the zero null position is indicative of a secondary field and therefore, of a possible conductive body.

The transmitting station used for this survey was Seattle, Washington, U.S.A.

Readings were taken at 100 foot intervals along the picket lines for a total of 583 stations, covering 11.2 miles of line.

DISCUSSION OF RESULTS

The data obtained during the EM-16 survey exhibits large fluctuations in the readings. Largest of these variations can be attributed to the effect of the Canadian National Railway that passes through the northern portion of the claim group. The effect of the rail line can be seen from as far away as 1,400 feet and this may have masked the presence of any conductor in this region. However, this is not likely to be so, for if it were a conductor of any consequence, its effect would have shown through.

Other major variations that are noticeable can be attributed to the swamp conditions that are found on the property.

A number of mineralized occurences have been discovered on the property by means of trenching, however, these failed to produce any geophysical anomaly. It must, therefore, be concluded that the extent of each mineralized occurrence is very much limited. It is to be noted that the trenches are located within the area effected by the rail line and the secondary fields due to any small amounts of mineralization may be swamped. The conclusion to be drawn therefore, is that no extensive mineralized zone was located by this survey.



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272336	.20	PA272350	20			•
272338	.20	PA272351	20			
272342	20	PA272370	20			
272344	20	PA272343	20			
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A44957 40	PA272344		PA272356	4.0
A272336 40	PA272345	40	<u>.PA272357</u>	40
A273337	PA272348	40	PA272358	40
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PERFORMANCE & COVERAGE CREDITS

ASSESSMENT WORF DETAILS	MINING CLAIMS TRAVERSED
Township or Area SHARRON LAKE	List numerically
Type of Survey ELECTROMAGNETIC A separate form is required for each type of survey	рл 44954
Chief Line Cutter JEAN ALIX	PA. 44957
or Contractor C.P. 910, VAL D'OR, OUBBEC. Address	
Party ChiefULDIS ABOLINS, P.Eng	PA. PA. 272337
Suite 840, 20 King St. W., Tor. 1 Address	
ConsultantName	<i>PA</i> 27.23.42
Address	<i>P</i> A. 27.2343
COVERING_DATES	
Line Cutting September 6 - September 28, 1970	
Field <u>September 14 - October 2, 1970</u>	PA 57 27.2348
Office November 16 - November 27, 1970	PA PA 272349
	Pa
INSTRUMENT_DATA	
Make, Model and Type Geonics - EM16 - Vertical Loop	PA
Scale Constant or Sensitivity ±1% Quadrature ±2% Inphase Or provide copy of instrument data from Manufacturer's brochure.	PH PA 272356
Radiometric Background Count	M.FA. 272357
Number of Stations Within Claim Group583	<i>M</i> . FB . 272358
Number of Readings Within Claim Group583	<i>!!!!!!!!!!!!!</i>
Number of Miles of Line cut Within Claim Group 12.25 mi.	^{PA} PA 262648
Number of Samples Collected Within Claim Group	Ş
<u>CREDITS REQUESTED</u> 20 DAYS <u>40 DAYS</u> Includes per claim <u>40 DAYS</u> Includes (Line cutting)	TOTAL18
Geological Survey	
Geophysical Survey	Send in duplicate to: FRED W. MATTHEWS
Geochemical Survey	SUPERVISOR-PROJECTS SECTION DEPARTMENT OF MINES &
DATE Acember 15, 1970 DDD	NORTHERN AFFAIRS WHITNEY BLOCK QUEEN'S PARK
signed K. L. Brown	TORONTO, ONTARIO

Performance and coverage credits do not apply to airborne surveys

8. L.

APPENDIX

ULDIS ABOLINS, B.A.Sc., P.Eng.

- Graduate in geological engineering University of Toronto, 1967.
- Member of the Association of Professional Engineers of the Province of Ontario.
- Member of the Corporation of Engineers of Quebec.
- Member of the Canadian Institute of Mining and Metallurgy.
- 1967-1970 worked for Anaconda American Brass Ltd. as a field geologist at their Marathon, Ontario and Noranda, Quebec offices.
- 1970 joined Asarco Exploration Company of Canada Limited as a senior geologist and worked on various properties in Ontario and Quebeorem

ALD PROFESSIONAL BOLINS Þ Eng. uldis POLINCE OF ONTAN

UA/ey

Toronto, Ontario, 7th December 1970.

2.221

AREA CODE - 416 TELEPHONE - 365-6918



WHITNEY BLOCK, OUEEN'S PARK TOFONTO 152, ONT

DEPARTMENT OF MINES AND NORTHERN AFFAIRS MINING LANDS BITANCH

May 28th, 1971.

Nr. W.A. Buchan, Mining Recorder, Court House, Sioux Lookout, Ontario.

Re: Mining Claims PA. 44954 et al, Sharron Lake Area. File No. 2.221

Dear Sir:

The Geophysical (Electromagnetic) and Geological assessment work credits as listed with my Notice of Intent dated May 13th, 1971, have been approved as of the date above. Please inform the recorded holder and so indicate on your records.

Yours very truly,

Fred W. Matthews, Supervisor, Projects Section.

c.c. Asarco Exploration Co. of Canada Ltd.,

Ç,

c.c. Mr. Richard L. Brown,

c.c. Mr. E. B. Nicholls,

c.c. Mr. H. L. King.

FWM/mr



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1214	-68 - +4	-10+-12	-418/	-10+ -28			-85 - 38	-15+22	-70++25	+110. +18	-115++32	-210++18	-230+40	-125 + 28	-105++12
	-2810	27 × 2 5 32	+40+-34	~85* -15	+75 -6		-18++38	-85+~42	-551+32	-80++50	-88++25	-88++20	1154 +24	-64++30	-95+22
KON-	+ 68. +2+ -	+35, +42	-90++35	-40 +25	-851 +4%		-95, +24	+105+12	-88++20	-55, +25	-48++34	-92, +18	-85++25	-35++22	-88++18
-	-78 + 28	-55++18	-74-+25	-65+ +28	-55++22	-74++52	-55++12	-68++22	-44++28	-58++2A	-44++32	-55++28	-621+32	-78++32 2	-54 + +25
814-	-55- +18	3++08-	-15++15	-64+ +28	-48 +34	-44.+36	~52. +22	-52++20	-36++25	-40,+30	-32++38	-45++28	~58≠+30	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-52++28
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•	-14 - +22.	-24 / 415	-10++18	-18++18	-22++26	-4++26	0 + + 28	0 + 25	-5++18	-5++22	Ø ++4	/ -14++22	+5 +32	-18++32	-10 +32
2	0 • +22	-18 + 18	~4 • +24	-5++20	-340 +4	0 • +25	+44 +26	- 5 • +14	+++18	A44957	+8+26	-18++12	+201+28	o ++28 ×	0 ++30
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· · · ·	+84.+32 /	+32 + 14	+55, -6	+32++8	+46	+32 -12	72344	+34 ++12	+38++8	+10++8	+5 ++12.	0 +15	+5++1B	0 ++6	+16++27
45 •	+42. +1B	+18,+14	+328	+168	/ +46	+42,+2	0.+14	+64,+18	+60, +25	+18.+8	0+18++16	+12++4	+81+10	+14 +14	+361+32
	+10. ,6	+ 25. +4	+ 64.+4	+38++15	+36++8	+62++12	+28++4	+38 +4	+36+ +10	+28+ +18	+20++16	-5++2	+81+12	+8 ++18	+24.+36
63.	+18.0	+246	+**4.+8	+22. ++2	+2614	+22 +-2	+35.+8	+36.+8	+40, +4	+38, +6	+22++12	0 + +2	+141+10	+22++15	+12++15
	+38B	+28.0	+3810	+20+-8	+32 • -8	-28+-2	+45+ 0	+42++8	+35++8	+55++12.	+12 • 🔿	0++4	+12++6	+15++18	0.0
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	+161-5	+42.+4	272 载音	+15+ -14	+6812	+128	+482	+34+ -8	+285	+48+ +15	+384 +4	+51-8	+22+0	+12. 0	+5++8
:05	+241-18	+44 0	+288	+40= -6	+34.0	+251-18	0022	+408	- 5 10	+55, +5	+ 28 + +12	+15++8	+22.1+2	o ·-8	+12++6
•	+16 *~6	+224	+2412	+58 • -4	+64.0	+44 8	+\$28	+44 +8	0.0	+28+ +8	+48+12	728.0	+22++6	+15+-2	+8++6
² .	+38+0	+32 -12	+2614	+458	+58, 0	+4810	++0, 0	+28,-44	-5,-2	+28,+8	+55.0	+18.0	+38++22	+26- 0	+244 +18
•	+22 + -12	+26 23	+184 -12	+28• ~8	+281-12	+72.0	+18+-6	+15+-8	-5.0	+26++4	+68++8	+28++8	+32++15	+ 18++8	0 + 2
145.	+12 -14	+18 • -18	+1214	• •-8 PA2	72350	+52. +4	+5++4	+ 10, -12	-34 16	+10+-4	+646	+ 14+ -12	+26=+12	+15++6	+5.+2
•	+26 -16	+2412	- 012	0 · C	0 + 0	+128	-18 + -8	+5-5 -5	06	+10 + 0	+320+4	+40++4	+26+ -4	+18+0	+8•+ • O
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1 D.A.	PA 272255	130-12		+34	FI- 01-	-288	-19 • -4	+12+-10	· ·	· · · ·	~ @ 124	-48.5	PA 26264	2 +78++4	
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IN PHASE QUADRATURE + 30 +10 +15 +16 +10 +5 TRUE CROCEOVER -10 - 28 -16 -18

> INSTRUMENT: RONKA EMIG STATION SEATTLE WASH. USA DIRECTION OF TRAVEL: CLAIM POST O

ASARCO EXPLORATION CO OF CAN LTD. TORONTO ONT

EM 16 SURVEY ROSNEL SIDING PROPERTY SHARKON LAKE AREA ONTARIO (Station Readings)

OWGI SERE 1-400' OCT TO TR



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BOTSFORD LAKE CLAIM BOUNDARY LOCATION MAH SCALE 1"= 2640' +40 QUADRATURE % -40 DIP TRUE CROSSOVER QUADRATURE • • +4C : -4C TNSTRUMENTS FONKA EMIG TATION: STATTLE WALH. DIPETTION OF TRAVEL CLAIM POST S 52J/04NE-0018-72 ASAP CO EXPLORATION LONG CANATIN TORONIC OUT. EW IS SIF VEY ROSNEL SIDING PROPERTY CHAPRON LAKE A KEA ONTARIO (TH-16 Suncy Profiles) 1942