

2A11NW0004 2.799 PROSSER

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Texas Gulf Sulphur Company Report on Geophysical Work

in

Prosser Township

Claims: P293823 - P293826

A geophysical survey, consisting of magnetometer and horizontal loop traverses, was carried out over this group of 4 contiguous claims, located in the  $S_2^1$  of Lot 5, Con I, Prosser Township. The results of the survey are as follows:

## Magnetic:

The magnetic survey shows <u>two highs</u>, both trending north-east. The source of the one on Lines 0+00W and 3+00W is a body of higher susceptibility material, probably basic rock, at a depth of less than 200 feet. It's indicated dip is to the north-west.

The source of the anomaly on Lines 24+00W and 26+00W is considerably shallower - approximate depth = 75 feet. Dip is vertical.

Excepting the above features, the magnetic results are essentially flat and do not reflect any geologic features.

## Horizontal Loop:

The only anomalous response obtained is on Line 24+00W at the Base Line. The weak anomaly appears to be caused by a narrow zone of poor conductivity located at a depth of 100 feet and, thus, represents a bedrock conductor. Dip is near vertical.

The anomaly lies at the eastern end of the magnetic high but is actually coincident with a local magnetic low. There is no indication of the conductive zone on adjacent lines.

## Conclusions:

The conductor detected by the horizontal loop survey shows poor conductivity and no direct magnetic correlation. It does, however, seem to reflect a bedrock In view of the deep overburden in this area, source. electromagnetic methods with greater depth penetration, such as vertical loop, might be attempted for further investigation.

J.A. Slankis

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GEOPHYSICAL – GEOLOI TECHNICAL DATA STATENAL	900 RECEIVED
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.	MAR 29 1972
Type of SurveyGeophysical	SECTION
Township or ArcaProsser Twp.	
Claim holder(s) Texas Gulf Sulphur Company MINING CLAIM	S TRAVERSED
Box 149, Toronto-Dominion-Centre, Toronto List num	nerically
Author of Report J.A. Slankis	
Addressas above (prefix)	(number)
Covering Dates of Survey July 25, 1971 - March 28/72	
Total Miles of Line out 5.0 (linecutting to office) P293823	
P293824	•••••••••••••••••
SPECIAL PROVISIONS D293825	
CREDITS REQUESTED Geophysical de la per clain 40 11 P293826	
ENTER 40 days (includesElectromagnetic	••••••
line cutting) for firstMagnetometer	
survey. – Radiometric	
ENTER 20 days for each – Other	
additional survey using Geological	
Geochemical	···
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
MagnetometerElectromagnetic Radiometric	
DATE: 28/3/72 SIGNATURE: A. Slenk	
PROJECTS SECTION	
Res. Geol Qualifications 2,686	
Previous Surveys _ d. N.	
Checked bydate	
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Approved bydate	
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Approved bydate	4

**OFFICE USE ONLY** 

If space insufficient, attach list

## GEOPHYSICAL TECHNICAL DATA

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<u>GROUND SURVEYS</u>	MAG:	487					MAG:	487
Number of Stations	EM :	242			Number of Re	adings_	EM:	242
Station interval	EM: 1	00'	(50'	detail)	MAG:			
Line spacing	300'			- · · · · · · · · · · · · · · · · · · ·				
Profile scale or Contour	r intervals	EM:	1."	= 20%	MAG:	50 g	Jammas	
			(spec	ify for each type of su	rvey)	1		
MAGNETIC								
Instrument ELS	EC # 5	92, Pi	oton	precession	n, total field	d		
Accuracy - Scale consta	int	2 Y					·····	·····
Diurnal correction met	hodLo	ooping	J					
Base station location	At	base	line	on line 04	-00W			
ELECTROMAGNETIC	· · · · · · · · · · · · · · · · · · ·							
InstrumentGeon	ics EM	17	:					
Coil configuration	Horizon	ntal I	qoor				**************************************	
Coil separation	300'							
Accuracy <u>+ 2%</u>	on In-	-phase	and	Quadrature	)			
Method:	□ Fixed	transmi	tter	🗆 Shoot	back 🔀 In	line	🗆 Pa	rallel line
Frequency				(specify VI, F s	tation)			
Parameters measured	In-pl	hase a	ind q	uadrature c	omponents of		<del>,</del>	
GRAVITY	secor	ndary	fiel	d as percen	t of primary	•		
Instrument			·····		•••••			·
Scale constant			<u></u>					
Corrections made								
Base station value and l	location_							
Elevation accuracy								
INDUCED POLARIZA	TION	RESIST	IVITY					
Instrument								
Time domain	·····			Fr	equency domain		·····	
Frequency				Ra	ange			
Power								
Electrode array								
Electrode spacing					11			· · · · · · · · · · · · · · · · · · ·
Type of electrode								

Lucas Twp.  $(\mathbf{P})$ P  $(\mathbf{P})$ **(P)**  $\bigcirc$ P **P (P**)  $(\mathbf{P})$ **(P)** ℗ Q 10  $\bigcirc$  $\mathbf{P}$  $\bigcirc$ **P (P)** ℗ P **P** • P lacksquare $\bigcirc$ P **(P)** P Prosser 320210 320211 P P • P P. P. L. 320220 | 320221 1 ----lacksquare $(\mathbf{P})$ P P **(P**) P P **(P**) P Þ P 255945 P C 5 R 0 255945 P P  $\mathbf{P}$ 255897 255897 255900 2 255900 Þ P  $\bigcirc$ **P (P)**  $(\mathbf{P})$  $(\mathbf{P})$  $(\mathbf{P})$ 256 17 5 Ø **P** 920-3 9205Y P P ℗ **(P**)  $(\mathbf{P})$ P P 98061 7206C Ð  $\bigcirc$  $(\mathbf{P})$  $(\mathbf{P})$  $(\mathbf{P})$  $(\mathbf{P})$  $(\mathbf{P})$ • P 0 • B S.R. O. MAG 55310 55311 P P P MALO S. R. O. MACO 55312 155313 5×0 1272 962 1  $\bigcirc$  $\bigcirc$ **(P)**  $(\mathbf{P})$  $(\mathbf{P})$ **(P)** 5. R. C 10: 13 46214 1021 P ℗ 0 8 55316 55316 55317 55318 55319 55320 55317 55318 55319 55320 55321 > 40 ۲ • P  $(\mathbf{P})$ P P --@-- $\bigcirc$ P) ᠂ᡶᠧᡏ 9.4.0 ℗ **(P**) P **(P**) ₽ ℗ **P (P**) P ₽ Þ S,R. 0. ~S P 58157 58158 p---- $(\mathbf{P})$ P ℗ 0 ℗ ℗ ₽ ℗ 5. R.O. 58156 58159 P P P P Meo SR 0. Meo 55998 55989 P P P P Mey S. Q.0 55991 55990 ℗ P Pr ℗ 293825 293826 ℗ **. P**-℗ P P 293824 293823 60352 60355 12 11 10 9 8 7 . 6 5 4 3 2 Wark Twp.

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