

# MAR 19680065: NORTHERN ALBERTA

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ECONOMIC MINERALS

FILE REPORT No.

S-AE-070(2)

REPORT ON FIELD EXAMINATION

JOE PHILLIPS LIMITED

SULPHUR PROSPECTING PERMIT NO. 70

NORTHERN ALBERTA

19680065

THIS REPORT HAS BEEN PREPARED  
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Joe Phillips Limited

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REPORT ON FIELD EXAMINATION  
JOE PHILLIPS LIMITED  
SULPHUR PROSPECTING PERMIT NO. 70  
NORTHERN ALBERTA

Prepared For  
Joe Phillips Limited  
November, 1968

**J. C. SPROULE AND ASSOCIATES LTD.**  
OIL AND GAS ENGINEERING AND GEOLOGICAL CONSULTANTS

REPORT ON FIELD EXAMINATION

JOE PHILLIPS LIMITED

SULPHUR PROSPECTING PERMIT NO. 70

NORTHERN ALBERTA

The field work on this Permit has been carried out at the request of Mr. D.J. Ewing acting for Joe Phillips Limited. The work was authorized under our letter agreement of July 29, 1968 and the request made was that J.C. Sproule & Associates Ltd. should collect representative near-surface samples as described in the pertinent paragraph of our July 29th letter. We quote:

"The Phase II field studies may be divided into Steps 1 and 2. The field party conducting Phase II would, upon arrival in the field, immediately check those points of indicated interest that had become evident from the photogeological study. More specifically, we think that the preliminary study will give you a good idea of all those areas that are likely to contain sulphur. All areas where sulphur is likely to occur will be checked by the helicopter reconnaissance crew. Hand specimens and/or auger samples will be taken to determine the presence or absence of sulphur. We might call this preliminary part of the field program Step 1 of Phase II. The total cost of Step 1 will be \$700 per permit-unit of 20,000 acres or \$1,400 for Permit No. 70."

The field work has been conducted by Mr. N. Soul. The field notes describing the samples taken are as follows. We quote:

"Permit No. 70

Area No. 1

Hole No. 1 - S.W. 14-113-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
70-1-1	4	7.25	Grey clay
70-1-1	8	4.11	Grey clay.

Hole No. 2 - N.E. 9-113-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
70-1-2	4	Trace	Clay
70-1-2	8	Trace	Clay.

Hole No. 3 - S.W. 4-113-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
70-1-3	4	Trace	Yellow sandy clay (alluvium?).
70-1-3	8	Trace	Yellow sandy clay (alluvium?).

Hole No. 4 - S.E. 30-112-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
70-1-4	4	Trace	Yellow sandy clay (alluvium?).
70-1-4	8	Trace	Yellow sandy clay (alluvium?).

Area No. 2

Hole No. 1 - S.W. 36-112-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
70-2-1	4	Trace	Dark muck
70-2-1	8	Trace	Dark muck.

Area No. 2 (Continued)

Hole No. 2 - N.E. 1-113-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
70-2-2	4	Trace	Dark muck, <u>sulphurous</u> <u>odour.</u>
70-2-2	8	Trace	Grey clay.

Area No. 3


Hole No. 1 - S.E. 13-113-1 W. 5 M. Depth, 8 feet.


<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
70-3-1	4	Trace	Yellow sandy clay (alluvium?).
70-3-1	8	Trace	Yellow sandy clay (alluvium?).

The sample locations are given on the accompanying Figure 1 and the related analyses by Chemical and Geological Laboratories Ltd. constitute Appendix I attached hereto.

With reference to these results, it will be observed that analyses made of all samples taken from Sulphur Permit No. 70 show only traces or very small percentages of sulphur. The material penetrated was mostly clay, but included muskeg debris. These are normally rather high in sulphur in lake or depressional areas where sulphur is known. That being the case, it is reasonably certain that Sulphur Prospecting Permit No. 70 does not contain occurrences of native sulphur in sufficient quantities to justify further exploratory activity.

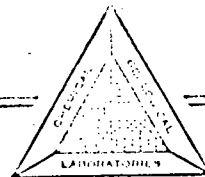
Under the circumstances, we recommend that Sulphur Prospecting Permit No. 70 be abandoned and that the Company request a return of their deposit.

  
H.B. Lyall, P. Geol.

  
J.C. Sproule, P. Geol.

1009 Fourth Avenue S.W.,  
Calgary 2, Alberta.  
November 15, 1968.  
HBL:JCS:1d1





14240-115 AVENUE, EDMONTON, ALBERTA

Date Reported: October 7, 1968

Laboratory Report Number: C68-4103

J. C. SPROULE & ASSOCIATES LTD.

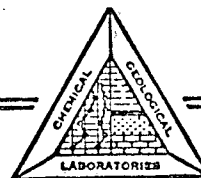
Kind of Sample: Soil

Date Received: September 26, 1968

SAMPLE NUMBER	DEPTH IN FEET	ELEMENTAL SULFUR	
		(% by Weight on Dry Sample)	(% by Weight on Wet Sample)
70-1-1	8	4.11	2.57
70-1-2	8	Trace	Trace
70-1-3	8	Trace	Trace
70-1-4	8	Trace	Trace
70-2-1	8	Trace	Trace
70-2-2	8	Trace	Trace
70-3-1	8	Trace	Trace

# CHEMICAL & GEOLOGICAL LABORATORIES LTD.

14240-115 AVENUE, EDMONTON, ALBERTA



Date Reported: October 29, 1968      Laboratory Report Number: C68-4213-4

## J. C. SPROULE & ASSOCIATES LTD.

Kind of Sample: Soil

Date Received: October 18, 1968

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULFUR (% by Weight on Dry Sample)</u>
70-1-1	4	7.25
70-1-2	4	Trace
70-1-3	4	Trace
70-1-4	4	Trace
70-2-1	4	Trace
70-2-2	4	Trace
70-3-1	4	Trace

*Handwritten signature or initials*

R.1 W.5

114°00'

**PHOTOGEOLOGICAL MOSAIC  
SULPHUR PROSPECTING PERMIT**

No. 70

**FORT VERMILION AREA  
ALBERTA**

PREPARED FOR  
**JOE PHILLIPS LIMITED**



APPROXIMATE SCALE IN MILES

THIS IS A SEMICONTROLLED MAP-MOSAIC AND SHOULD  
NOT BE MISTAKEN FOR AN ACCURATE GEOGRAPHIC BASE

J.C. SPROULE AND ASSOCIATES LTD. CALGARY, ALBERTA

58°50'

T. 113

58°45'

T. 112



R.1 W.5

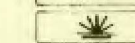
114°00'

**LEGEND**

**SURFICIAL DEPOSITS**



Alluvium



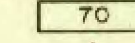
Muskeg

**PHOTOGEOLOGICAL SYMBOLS**

--- Alignment interpreted to indicate faulting or fracturing in bedrock

--- A --- Alignment of probable geological significance

AREA 1, 2 etc. Areas of interest discussed in report

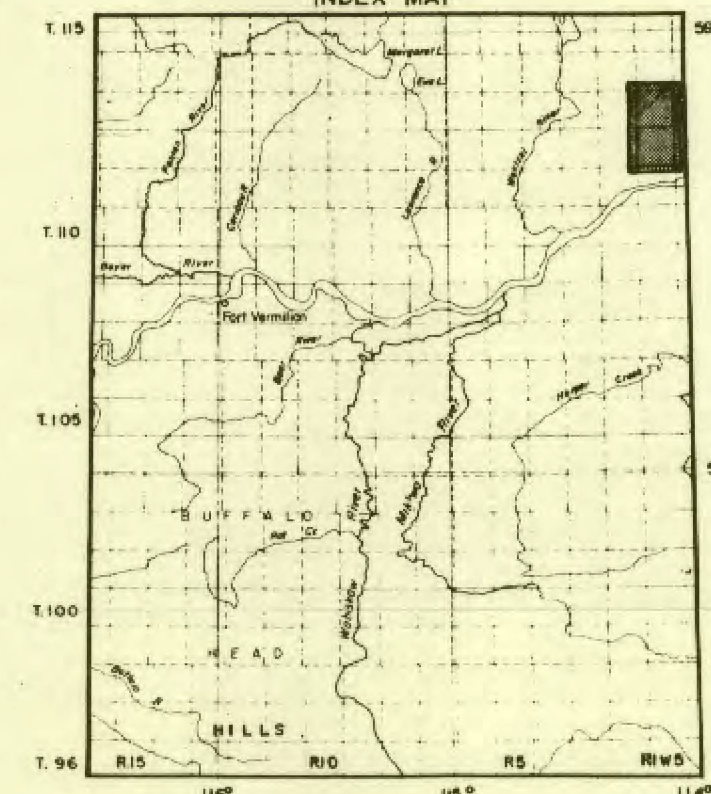


Sulphur prospecting permit outline



Sample Location

**INDEX MAP**



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