

# MAR 19680027: NORTHERN ALBERTA

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19660027

ECONOMIC MINERALS  
FILE REPORT No.  
S-AF-011(2)

REPORT ON FIELD EXAMINATION  
AND  
RELATED SULPHUR SAMPLE ANALYSIS  
SULPHUR PERMIT NO. 11, NORTHERN ALBERTA

REPORT ON FIELD EXAMINATION  
AND  
RELATED SULPHUR SAMPLE ANALYSIS  
SULPHUR PERMIT NO. 11, NORTHERN ALBERTA

Prepared For  
Spooner Mines and Oils Limited  
November, 1968

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

TABLE OF CONTENTS

	<u>Page</u>
REPORT	1
ANALYSIS - Chemical & Geological Laboratories Ltd.	Appendix 1

ILLUSTRATION

Figure 1 - Photogeological Mosaic, Sulphur Prospecting Permit No. 11, Fort Vermilion Area, Alberta	In pocket
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REPORT ON FIELD EXAMINATION

AND

RELATED SULPHUR SAMPLE ANALYSIS

SULPHUR PERMIT NO. 11, NORTHERN ALBERTA

The field work on this project has been carried out at the request of Mr. Dale Carman, acting for Spooner Mines and Oils Limited. The work was authorized under our letter agreement of July 15, 1968, and the request made was that J. C. Sproule and Associates Ltd. should collect representative near-surface samples as described in the pertinent paragraph of our letter of July 15. We quote:

"In Phase II, the field party would, upon arrival in the field, immediately check points of indicated interest on the basis of the photo-geological study. More specifically, we think that the preliminary study will give us a good idea of all those areas that are likely to contain sulphur. All points where sulphur is likely to occur will be checked by the helicopter reconnaissance crew and hand specimens and/or auger samples 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 cost of Step 1 for your permit would be \$800."

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

"Permit No. 11

Area No. 2

Hole No. 1 - N.E. 4-99-10 W. 5 M. Depth, eight feet.

<u>Sample No.</u>	<u>Depth</u> Feet	<u>Sulphur</u> %	<u>Sample</u>
11-2-1	4	(N.A.)	
11-2-1	8	Trace	Grey Clay"


The location of the sample locality collected is given on the accompanying Figure 1 and the resultant analysis by Chemical and Geological Laboratories Ltd. constitutes Appendix 1 attached hereto.

With reference to these results, it will be observed that analysis made at depths of 4 to 8 feet show only traces of sulphur. The material penetrated was grey clay, which is normally very high in sulphur in lake or depression areas where sulphur is known. That being the case, it can be assured that this particular sedimentary trough area does not contain interesting occurrences of native sulphur.

With respect to the other three localities of interest, as indicated in our preliminary report, Area No. 2 was examined carefully by helicopter but no springs could be observed along the indicated fault line and no clear lacustrine or muskeg depression in which sulphur could have been deposited commercially was present so no samples were taken. Areas Nos. 1 and 4, also examined by helicopter but were both very well drained and again no promising depressions for sulphur occurrence were found.

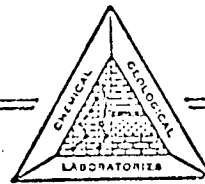
Under the circumstances, we recommend that this permit be abandoned and that the Company request a return of their deposit.

  
V. A. Farley *J*

  
J. C. Sproule, P. Geol.

1009 Fourth Avenue S. W.,  
Calgary, Alberta.  
November 4, 1968.  
VAF/JCS/fc

## CHEMICAL &amp; GEOLOGICAL LABORATORIES LTD.



14240-116 AVENUE, EDMONTON, ALBERTA

Date Reported: October 11, 1968

Laboratory Report Number: C68-4168

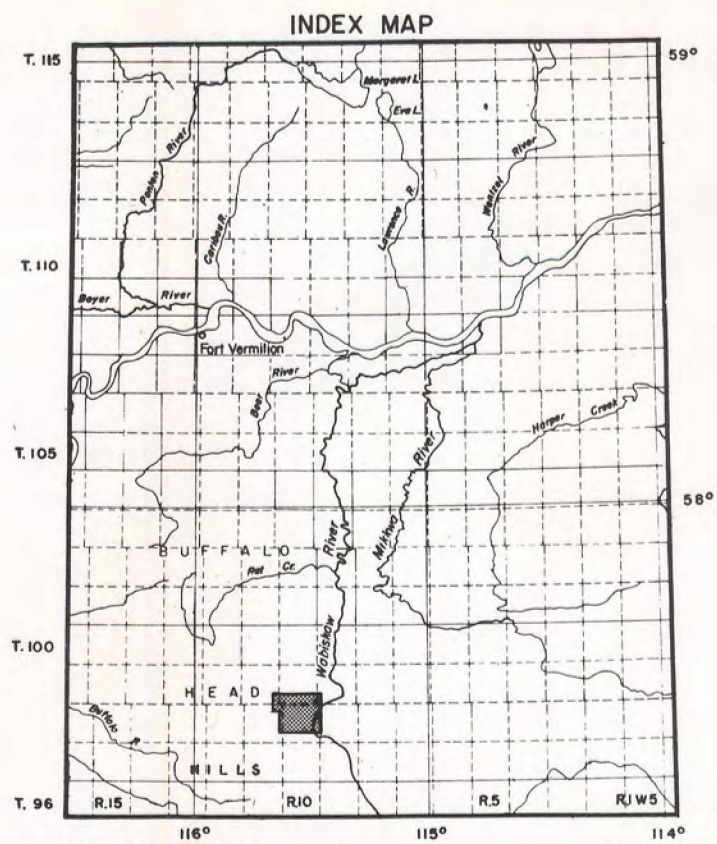
J. C. SPROULE & ASSOCIATES LTD.

Kind of Sample: Soil

Date Received: October 3, 1968





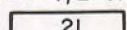
<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULFUR</u>	
		<u>(% by Weight on Dry Sample)</u>	<u>(% by Weight on Wet Sample)</u>
11-2-1	8	Trace Only	Trace Only

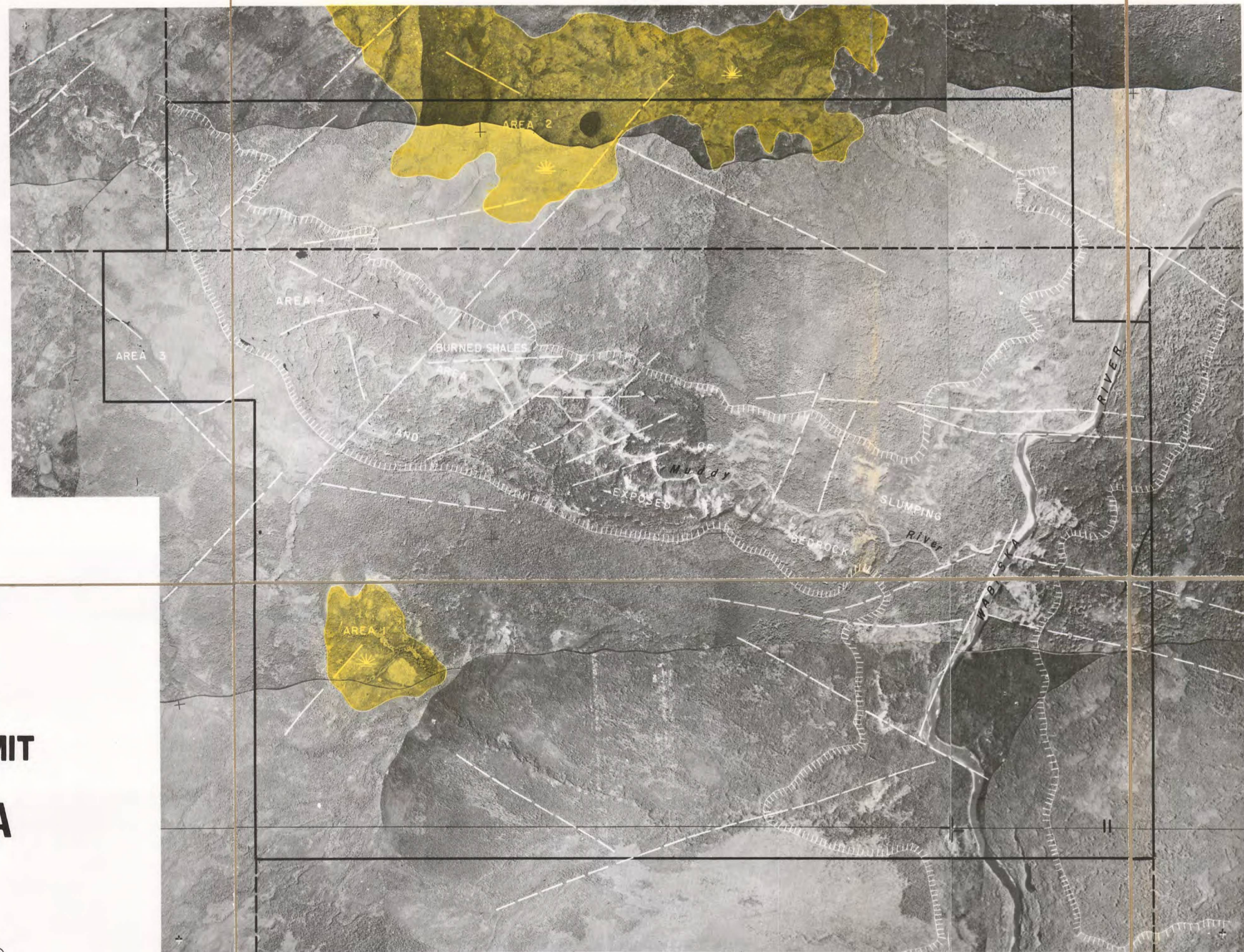




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**LEGEND**

-  SURFICIAL DEPOSITS
-  Muskeg
- PHOTOGEOLOGICAL SYMBOLS
-  Scarp
-  Alignment interpreted to indicate faulting or fracturing in bedrock
- AREA 1, 2 etc.
-  Sulphur prospecting permit outline



T.99

T.98

57° 30'

**PHOTOGEOLOGICAL MOSAIC  
SULPHUR PROSPECTING PERMIT  
No.11.  
FORT VERMILION AREA  
ALBERTA**

PREPARED FOR  
**SPOONER MINES & OILS LTD.**



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

APRIL 1968