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ECONOMIC MINERALS
FILE REPORT No.
S-AF-035(2)

REPORT ON FIELD EXAMINATION
SPOONER MINES AND OILS LIMITED
SULPHUR PROSPECTING PERMIT NO. 35
NORTHERN ALBERTA

REPORT ON FIELD EXAMINATION
SPOONER MINES AND OILS LIMITED
SULPHUR PROSPECTING PERMIT NO. 35
NORTHERN ALBERTA

Prepared For
Spooner Mines and Oils Limited
November, 1968

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

REPORT ON FIELD EXAMINATION
SPOONER MINES AND OILS LIMITED
SULPHUR PROSPECTING PERMIT NO. 35
NORTHERN ALBERTA

The field work on this project has been carried out at the request of Mr. Dale Corman 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 July 15th letter. 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 photogeological 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. Norm Soul. The field notes describing the samples taken are as follows. We quote:

"Permit No. 35 - 84-J-16 and 84-J-9

Area No. 1 - Checked muskegs. Improbable for sulphur occurrence.

Area No. 2

Hole No. 1 - N.W. 33-112-3 W. 5 M. Depth, 8 feet. No sample.

Improbable for sulphur occurrence. Muskeg and lacustrine.

Hole No. 2 - N.W. 3-113-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
35-2-2	4	(N.A.)	
35-2-2	8	Trace	Muskeg and lacustrine.

Hole No. 3 - S.W. 11-113-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
35-2-3	4	(N.A.)	Muskeg and lacustrine.
35-2-3	8	Trace	Black muck.

Area No. 3

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


<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
35-3-1	4	Trace	Muskeg and lacustrine.
35-3-1	8	Trace	Muskeg and lacustrine.


The locations of the sample localities 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 at depths of four to eight feet show only traces of sulphur. The material penetrated was in all cases muskeg debris and related sediments which is normally very high in sulphur in lake or depressional 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.

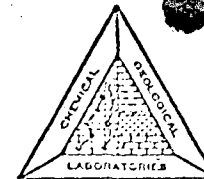
Under the circumstances, we recommend that this Permit be abandoned and that the Company request a return of their deposit.


V.A. Farley. *J*


J.C. Sproule, P. Geol.

1009 Fourth Avenue S.W.,
Calgary 2, Alberta.
November 6, 1968.
VAF:JCS:ld1

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



OPERATOR: J. C. SPROULE AND ASSOCIATES LTD.

REPORT NUMBER: C68-4062

DATE SAMPLED: ---

DATE RECEIVED September 18, 1968

DATE REPORTED September 27, 1968

Kind of Sample: Soil for Sulphur Analysis.

<u>LABORATORY NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>DEPTH (Feet)</u>	<u>SULPHUR</u>	
			<u>(% by Weight)</u>	<u>(% by Weight)</u>
			<u>Dry Sample</u>	<u>Wet Sample</u>
C68-4062-1	35-2-2	8	Trace	Trace
C68-4062-2	35-2-3	8	Trace	Trace
C68-4062-3	35-3-1	4	Trace	Trace
C68-4062-4	35-3-1	8	Trace	Trace

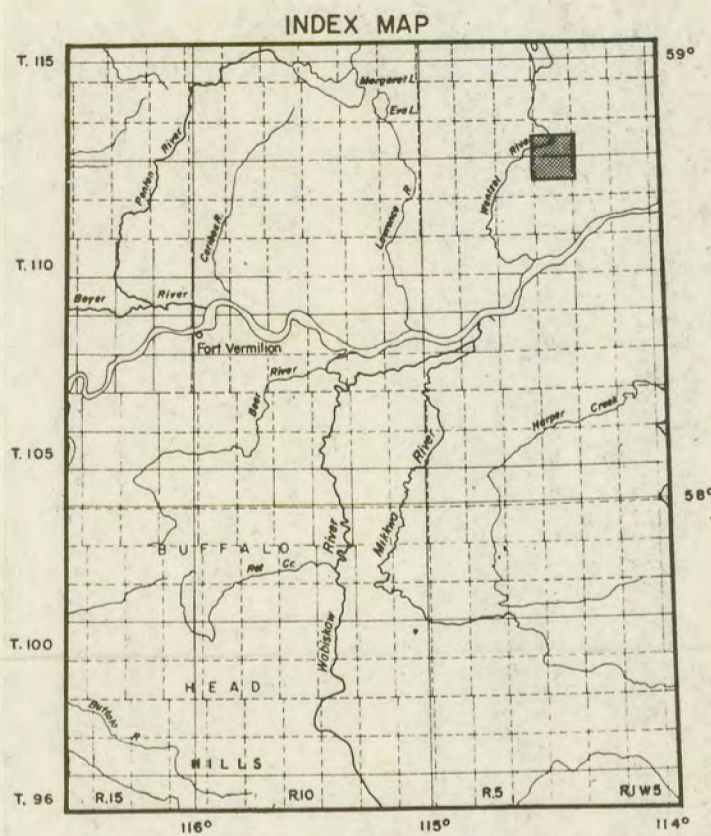
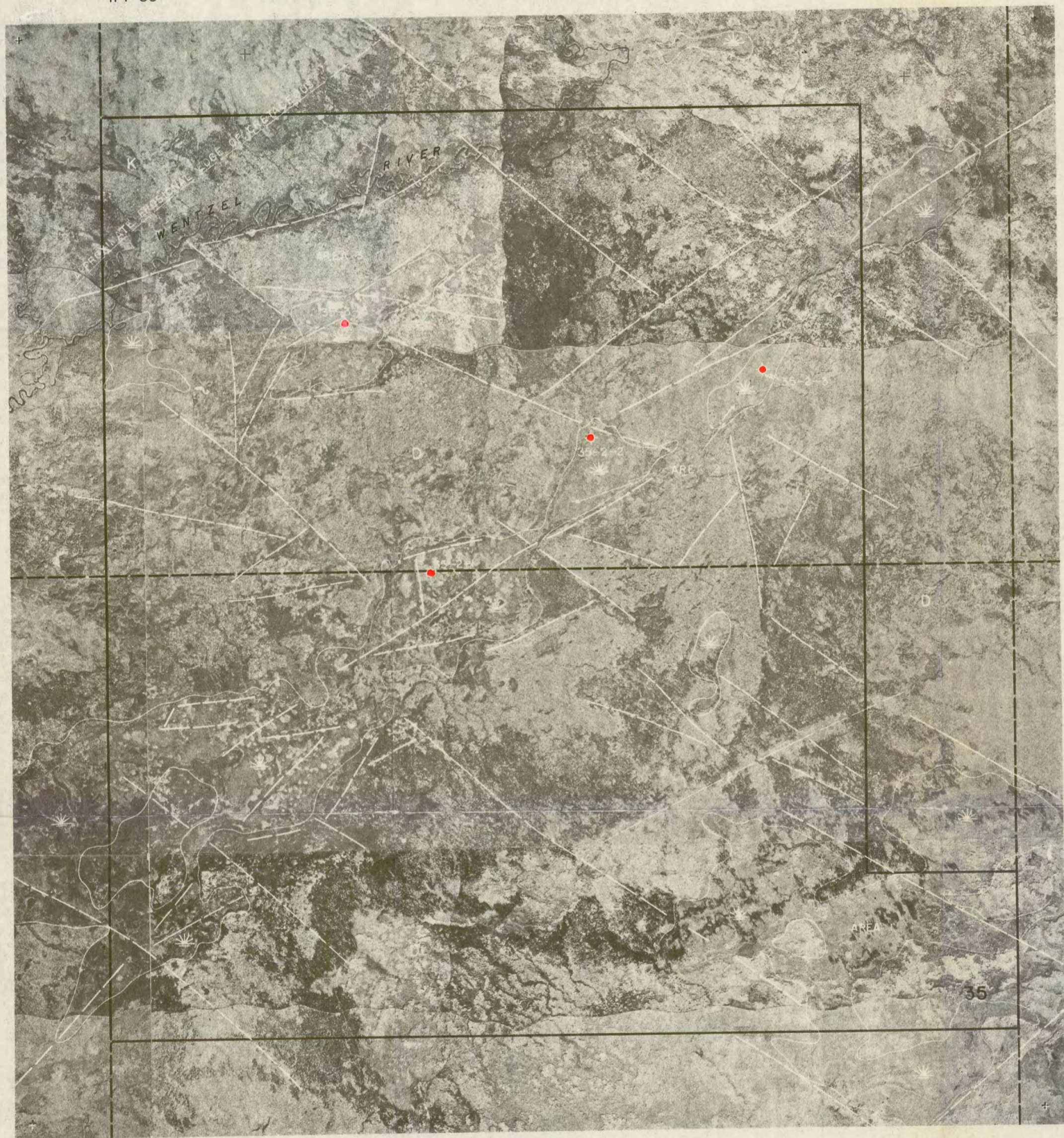
114° 30'

R.3-W.5

T. 113

T. 112

58' 45"



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LEGEND

- SURFICIAL DEPOSITS
- Muskeg
- BEDROCK FORMATIONS**
- Cretaceous (Undifferentiated)
- Devonian (Undifferentiated)
- PHOTOGEOLOGICAL SYMBOLS**
- Approximate erosional edge of Cretaceous
- Alignment interpreted to indicate faulting or fracturing in bedrock
- Alignment of probable geological significance
- Areas of interest discussed in report
- Sulphur prospecting permit outline
- Sample Location

**PHOTOGEOLOGICAL MOSAIC
SULPHUR PROSPECTING PERMIT
No. 35.
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

19680046