

# MAR 19680031: NORTHERN ALBERTA

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**ECONOMIC MINERALS**

FILE REPORT No.

*S-AF-013(3)*

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Ortega Minerals Ltd.

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REPORT ON FIELD EXAMINATION

ORTEGA MINERALS LTD.

SULPHUR PROSPECTING PERMIT NO. 13

NORTHERN ALBERTA

Prepared For

Ortega Minerals Ltd.

November, 1968

Report on Field Examination

and

Related Sulphur Sample Analyses

Sulphur Prospecting Permit No. 13, Northern Alberta

The field work on this permit has been carried out at the request of Mr. J.E. Cleveland acting for Ortega Minerals Ltd. The work was authorized under our letter agreement of August 19, 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 August 19th letter. We quote:

"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 would be \$750."

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

"Permit No. 13

Area No. 1

Hole No. 1 - N.W. 12-112-14 W. 5 M. Depth, 7 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
13-1-1	4	Trace	Black muck
13-1-1	7	Trace	Grey clay

Area No. 2

Hole No. 1 - N.E. 5-112-13 W. 5 M. Depth, 7 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
13-2-1	4	Trace	
13-2-1	7	Trace	Grey clay - pink streaks.

Area No. 5

Hole No. 1 - S.E. 28-112-13 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
13-5-1	4	Trace	Muskeg and lacustrine
13-5-1	8	Trace	Muskeg and lacustrine

Area No. 6


Hole No. 1 - S.W. 31-112-13 W. 5 M. Depth, 8 feet.

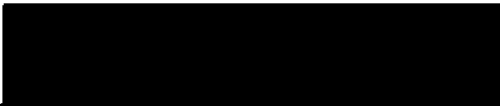
<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
13-6-1	4	Trace	Muskeg and lacustrine
13-6-1	8	Trace	Muskeg and lacustrine"

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 show only traces of sulphur. The material penetrated was muskeg debris, black muck and grey clay. These are normally quite 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.

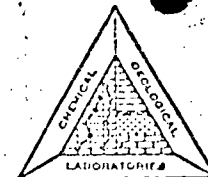
Under the circumstances, we recommend that this permit be abandoned and that the Company request a return of their deposit.

  
V.A. Farley. *J*

  
J.C. Sproule P. Geol.

1009 Fourth Avenue S.W.,  
Calgary 2, Alberta.  
November 4, 1968.  
VAF:JCS:ldl

## CHEMICAL &amp; GEOLOGICAL LABORATORIES LTD.



OPERATOR: J. C. SPROULE AND ASSOCIATES LTD.

REPORT NUMBER: C68-4068

DATE SAMPLED: ---

DATE RECEIVED September 18, 1968

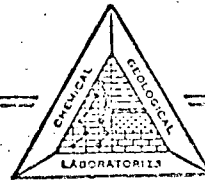
DATE REPORTED September 27, 1968

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>
C68-4068-1	13-6-1	7	Trace	Trace
C68-4068-2	13-2-1	7	Trace	Trace
C68-4068-3	13-1-1	8	Trace	Trace
C68-4068-4	13-5-1	8	Trace	Trace

# CHEMICAL & GEOLOGICAL LABORATORIES LTD.

14240-115 AVENUE, EDMONTON, ALBERTA



Date Reported: October 11, 1968

Laboratory Report Number: C68-4155

J. C. SPROULE & ASSOCIATES LTD.

Kind of Sample: Soil

Date Received: October 3, 1968

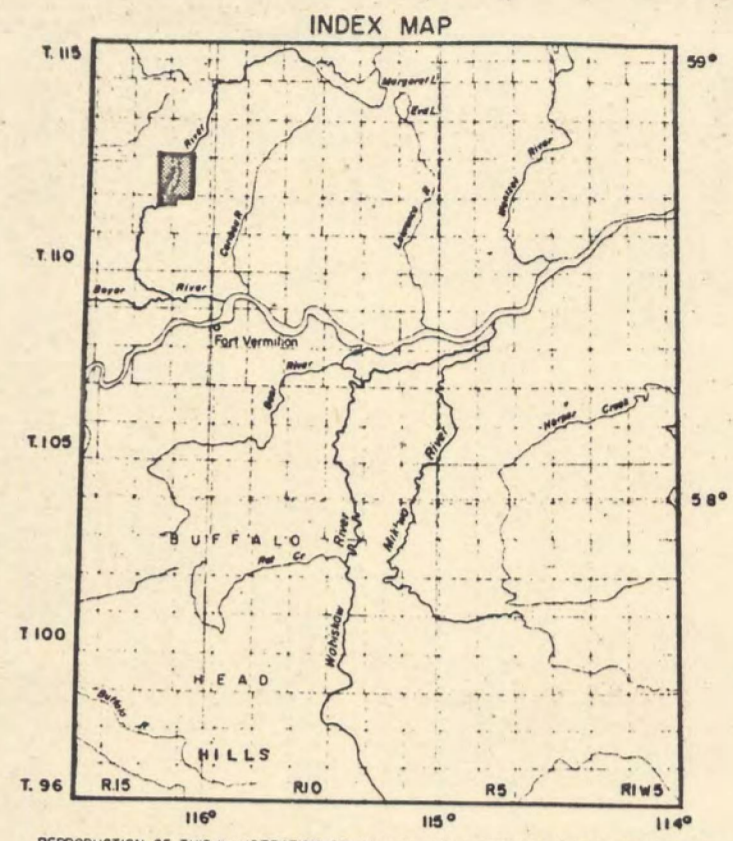
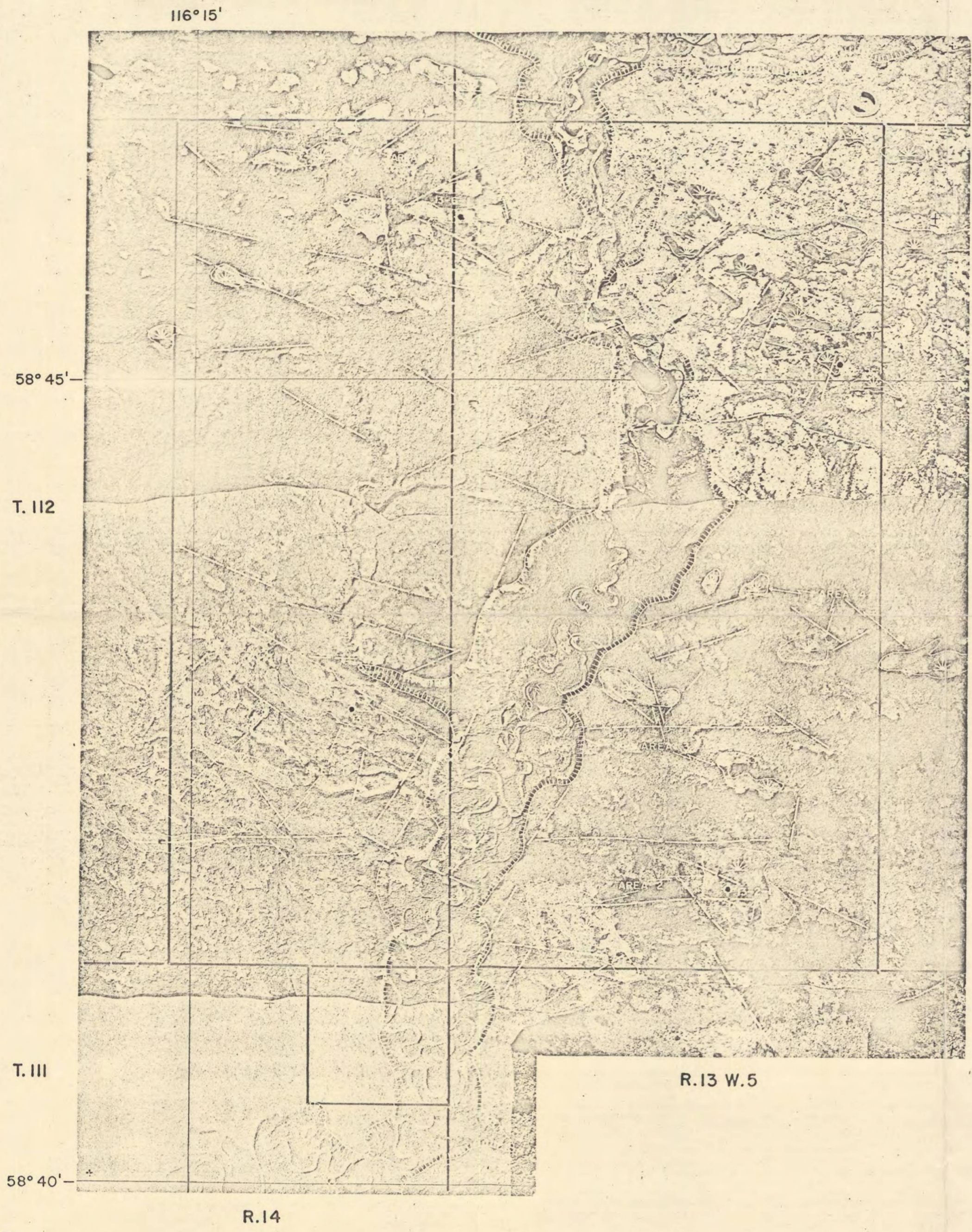
SAMPLE NUMBER	DEPTH IN FEET	ELEMENTAL SULFUR	
		(% by Weight on Dry Sample)	(% by Weight on Wet Sample)
13-6-1	4	Trace	Trace
13-2-1	4	Trace	Trace
13-1-1	4	Trace	Trace
13-5-1	4	Trace	Trace

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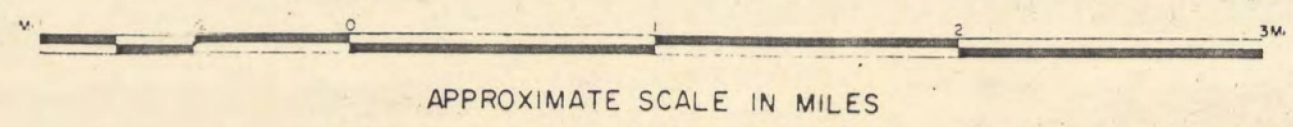


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- LEGEND**
- SURFICIAL DEPOSITS
  - Muskeg
  - PHOTOGEOLOGICAL SYMBOLS**
  - Scarp
  - Alignment interpreted to indicate faulting or fracturing in bedrock
  - AREA 1, 2 etc. Areas of interest discussed in report
  - Sulphur prospecting permit outline
  - Sample Location

**PHOTOGEOLOGICAL MOSAIC  
SULPHUR PROSPECTING PERMIT  
No. 13  
FORT VERMILION AREA  
ALBERTA**

PREPARED FOR  
**ORTEGA MINERALS LTD.**



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