

# MAR 19690065: NORTHERN ALBERTA

Received date: Dec 31, 1969

Public release date: Jan 01, 1971

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REPORT ON FIELD EXAMINATION  
SULPHUR PROSPECTING PERMIT NO. 106  
NORTHERN ALBERTA

Prepared For  
Cleveland Mining & Smelting Ltd. (N.P.L.)  
and  
Ortega Minerals Ltd. 19690065  
June, 1969

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Cleveland Mining & Smelting Ltd., (N.P.L.)  
and Ortega Minerals Ltd.

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ECONOMIC MINERALS  
FILE REPORT No.  
S-AF-106(4)

REPORT ON FIELD EXAMINATION  
SULPHUR PROSPECTING PERMIT NO. 106  
NORTHERN ALBERTA

Prepared For  
Cleveland Mining & Smelting Ltd. (N.P.L.)  
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June, 1969

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

REPORT ON FIELD EXAMINATION

SULPHUR PROSPECTING PERMIT NO. 106

NORTHERN ALBERTA

The field work on this permit has been carried out at the request of Mr. J. E. Cleveland acting for Cleveland Mining & Smelting Ltd. and Ortega Minerals Ltd. The work on the permit was authorized to be performed in accordance with our letter proposal of May 13, 1969, made in connection with recommendations made in our geological report of January, 1969, and involving a preliminary field examination by helicopter-borne geological crew to collect surface and/or auger samples from selected locations to determine the presence or absence of sulphur. It was agreed in the letter of May 13 that sufficient sampling should be done to place the Company in a position to make a decision regarding further action on the holdings.

Samples were obtained from ten locations on Permit No. 106, which is situated approximately 75 miles northeast of Fort Vermilion, Alberta. Seven holes were drilled at locations selected as most prospective on the basis of the earlier photogeological study. Three additional holes were drilled at other locations selected in the field. A Bell G3B1 helicopter belonging to Klondike Helicopters Ltd. was used for transportation from Fort Vermilion after spotting a gasoline cache by fixed-wing aircraft on a landing strip in Section 10, Township 113, Range 2, West of the 5th Meridian. The field work was done on May 29, 1969, by Norman Soul, P. Geol. The samples were brought to Calgary and submitted to Loring Laboratories Ltd. for assay of total sulphur content.


The sample locations and corresponding analyses of sulphur content are tabulated below. The sample locations are shown on Figure 1 accompanying this report, and the related analyses by Loring Laboratories Ltd. constitute Appendix I attached hereto.

Permit No. 106


<u>Hole No.</u>	<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Total Sulphur</u> %	<u>Sample</u>	
<u>Hole No. 1</u>	Lsd 10-18-114-2-W5M				
	Depth 5 feet	P106 - Hole #1	3	0.01	Gravel and Clay
		P106 - Hole #1	5	0.02	Clay
<u>Hole No. 2</u>	Lsd 12-19-114-2-W5M				
	Depth 3 feet	P106 - Hole #2	3	0.02	Sticky Clay
<u>Hole No. 3</u>	Ctr. Sec. 30-114-2-W5M				
	Depth 2 feet	P106 - Hole #3	2	0.02	Muskeg
<u>Hole No. 4</u>	Lsd 4-31-114-2-W5M				
	Depth 4 feet	P106 - Hole #4	4	0.01	Muskeg
<u>Hole No. 5</u>	Lsd 16-5-115-2-W5M				
	Depth 3 feet	P106 - Hole #5	3	0.02	Muskeg

		<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Total Sulphur</u> %	<u>Sample</u>
<u>Hole No. 6</u>	Lsd 4-10-115-2-W5M Depth 2 feet	P106 - Hole #6	2	0.02	Muskeg
<u>Hole No. 7</u>	Lsd 7-4-115-2-W5M Depth 2 feet	P106 - Hole #7	2	0.01	Muskeg
<u>Hole No. 8</u>	Lsd 7-21-114-2-W5M Depth 6 feet	P106 - Hole #8 P106 - Hole #8	3 6	0.01 0.01	Grey Clay Grey Clay
<u>Hole No. 9</u>	Lsd 9-16-114-2-W5M Depth 3 feet	P106 - Hole #9	3	0.01	Muskeg
<u>Hole No. 10</u>	Lsd 4-20-114-2-W5M Depth 2 feet	P106 - Hole #10	2	0.08	Muskeg

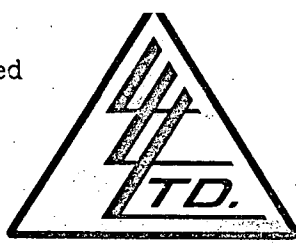
Samples taken from Sulphur Prospecting Permit No. 106 consist of clay and muskeg debris from locations, including those that were indicated from the study of aerial photographs to be the most favourable for the occurrence of sulphur on the permit. The assays indicate that only traces of sulphur are present in the twelve samples submitted for analysis. On the basis of these unfavourable results, we recommend that the Company apply for the abandonment of Sulphur Prospecting Permit No. 106 and the return of their deposit.

  
N. Soul, P. Geol.

1009 Fourth Avenue S.W.,  
Calgary 1, Alberta.  
June 18, 1969  
NS/h

  
S.R.L. Harding, P. Geol.

To: J. C. Sproule & Associates Limited  
1009 Fourth Avenue S. W.  
Calgary, Alberta



File No. 1775  
Date June 2, 1969  
Samples Soils

*Certificate of*  
**ASSAY of**  
**LORING LABORATORIES LTD.**

629 BEAVERDAM RD., N.E., CALGARY 67  
PHONE 277-6797

SAMPLE No.	TOTAL S %
P106 - Hole #1 3'	.01
P106 - Hole #1 5'	.02
P106 - Hole #2 3'	.02
P106 - Hole #3	.02
P106 - Hole #4 (1)	.01
P106 - Hole #5 3'	.02
P106 - Hole #6 2'	.02
P106 - Hole #7 2'	.01
P106 - Hole #8 3'	.01
P106 - Hole #9 3'	.01
p106 - Hole #10 2'	.08
P106 - Hole #8 6'	.01



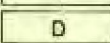


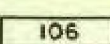

**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

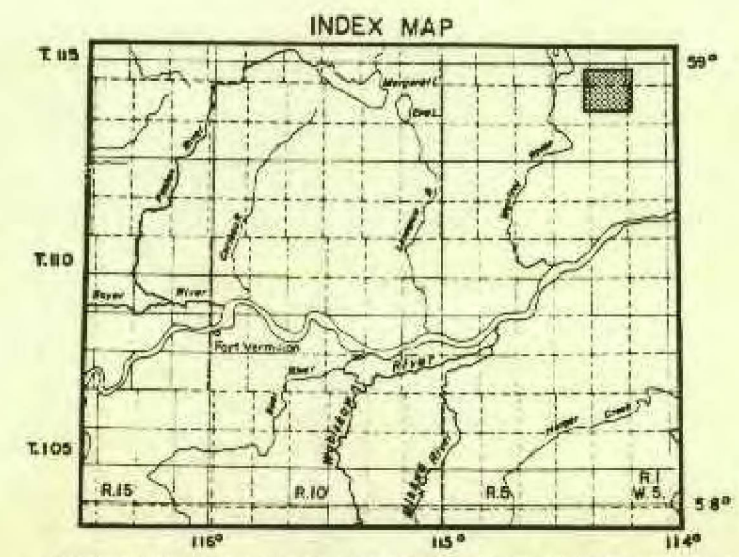
Objects Retained one month.  
Pulps Retained one month  
unless specific arrangements  
made in advance.

Provincial Assayer of British Columbia



**LEGEND**

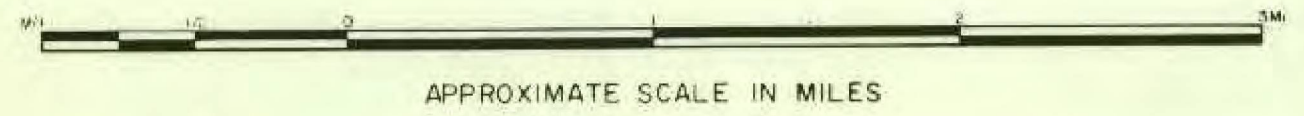
-  **SURFICIAL DEPOSITS**  
Muskeg
- BEDROCK FORMATIONS**
-  Cretaceous (Undifferentiated)
-  Devonian (Undifferentiated)
- PHOTOGEOLOGICAL SYMBOLS**
-  Approximate erosional edge of Cretaceous
-  Alignment interpreted to indicate faulting or fracturing in bedrock
-  Sulphur prospecting permit outline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



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**PHOTOGEOLOGICAL MOSAIC  
SULPHUR PROSPECTING PERMIT  
No. 106  
FORT VERMILION AREA  
ALBERTA**

PREPARED FOR  
**ORTEGA MINERALS LTD.**



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

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

DECEMBER 1968

19690065