

MAR 19680118: NORTHERN ALBERTA

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19680118

REPORT ON FIELD EXAMINATION

STAMPEDE OILS LIMITED

SULPHUR PERMITS NOS. 135 AND 136

NORTHERN ALBERTA

THIS REPORT HAS BEEN PREPARED
FOR THE EXCLUSIVE USE OF:

Stampede Oils Limited

COPY NO:.....2.....

ECONOMIC MINERALS
FILE REPORT No.
S-AF-135(2)
S-AF-136(2)

REPORT ON FIELD EXAMINATION
STAMPEDE OILS LIMITED
SULPHUR PERMITS NOS. 135 AND 136
NORTHERN ALBERTA

Prepared For
Stampede Oils Limited
November, 1968

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

REPORT ON FIELD EXAMINATION

STAMPEDE OILS LIMITED

SULPHUR PERMITS NOS. 135 AND 136

NORTHERN ALBERTA

The field work on these permits has been carried out at the request of Mr. A.A.W. Kryczka acting for Stampede Oils Limited. The work was authorized under our letter agreement of June 18, 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 June 18th 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 \$800 per permit-unit."

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

"Permit No. 135

Area No. 1

Hole No. 1 - N.W. 3-116-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
135-1-1	4	22.99	Muskeg and lacustrine
135-1-1	8	Trace	Muskeg and lacustrine

Hole No. 2 - N.E. 3-116-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
135-1-2	4	2.78	Dark brown clay
135-1-2	8	Trace	Dark brown clay

Hole No. 3 - N.E. 27-115-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
135-1-3	4	3.08	Muskeg
135-1-3	8	1.64	Muskeg

Hole No. 4 - S.W. 3-116-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
135-1-4	4	Trace	Muskeg
135-1-4	8	Trace	Muskeg

Area No. 2

Hole No. 1 - N.W. 35-116-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
135-2-1	4	0.35	Black sandy clay
135-2-1	8	Trace	Black sandy clay

Permit No. 135 (Continued)

Area No. 2

Hole No. 2 - S.W. 33-116-3 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
135-2-2	8	Trace	Black muck.

Area No. 3

S.E. 30-116-2 W. 5 M. Hard pan in four holes at two feet to 2.5 feet. No samples. Permafrost(?).

Ctr. 31-116-2 W. 5 M. Hard pan at two feet. No samples. Permafrost(?).

Permit No. 136

Area No. 1

Hole No. 1 - N.W. 35-112-8 W. 5 M. Depth, 2.5 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-1-1	2.5	Trace	Black muck

Area No. 2

Hole No. 1 - S.W. 14-113-8 W. 5 M. Depth, 7 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-2-1	4	Trace	Dark clay
136-2-1	7	Trace	Dark clay

Hole No. 2 - N.E. 14-113-8 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-2(2d)-2	4	Trace	Muskeg and lacustrine
136-2-2	8	Trace	Muskeg and lacustrine

Permit No. 136 (Continued)

Area No. 2

Hole No. 3 - S.W. 15-113-8 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-2(2b)-3	4	Trace	Muskeg and lacustrine
136-2-3	8	13.07	Muskeg and lacustrine

Area No. 3

Hole No. 1 - S.E. 8-113-7 W. 5 M. Depth, 6 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-3-1	4	Trace	Clay(?)
136-3-1	6	0.66	Clay(?)

Hole No. 2 - N.W. 4-113-7 W. 5 M. Depth, 3 feet (two holes).

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-3-2a	3	Trace	Grey clay
136-3-2b	3	Trace	Grey clay

Hole No. 3 - S.W. 9-113-7 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-3-3	4	13.41	Muskeg
136-3-3	8	Trace	Bluish grey clay.

Area No. 4

Hole No. 1 - S.W. 15-113-7 W. 5 M. Depth, 8 feet.


<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
136-4-1	4	(Not analyzed)	
136-4-1	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 most samples taken from Sulphur Permits Nos. 135 and 136 show only traces or very small percentages of sulphur, although three relatively high-value analyses were recorded. The material penetrated was mostly clay, but included muskeg debris and alluvium. The values are normally rather high in sulphur in lake or depressional areas where sulphur is known. One anomalously high grade sample is from Permit No. 135; this sample 135-1-1, taken at four feet, analyzed 22.99 percent sulphur, was from a small muskeg area whereas a sample from the same hole taken at eight feet showed only a trace of sulphur. This area could not be recommended because of the thin strata of potential sulphur involved (something less than four feet). The other two, from Permit No. 136, analyzed 13.07 percent sulphur (136-2(2b)-3, four feet), and 18.41 percent sulphur (136-3-3, four feet). Both of these samples are from very small muskegs. That being the case, it is reasonably certain that Sulphur Permits Nos. 135 and 136 do not contain occurrences of native sulphur in sufficient quantities to justify further exploratory activity.

Under the circumstances, we recommend that Sulphur Prospecting Permits Nos. 135 and 136 be abandoned and that the Company request a return of their deposits.


H.B. Lyall, P. Geol.


J.C. Sproule, P. Geol.

1009 Fourth Avenue S.W.,
Calgary 2, Alberta.
November 15, 1968.
HBL:JCS:ld1

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



OPERATOR: J. C. SPROULE AND ASSOCIATES LTD.

REPORT NUMBER: C68-4064

DATE SAMPLED: ---

DATE RECEIVED September 18, 1968

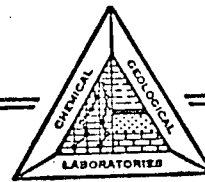
DATE REPORTED September 27, 1968

Kind of Sample: Soil for Sulphur Analysis.

LABORATORY NUMBER	SAMPLE NUMBER	DEPTH (Feet)	SULPHUR	
			(% by Weight) Dry Sample	(% by Weight) Wet Sample
C68-4064-1	135-1-1	8	Trace	Trace
C68-4064-2	135-1-2	8	Trace	Trace
C68-4064-3	135-1-3	8	1.64	0.63
C68-4064-4	135-1-4	8	Trace	Trace
C68-4064-5	135-2-1	8	Trace	Trace
C68-4064-6	135-2-2	8	Trace	Trace
C68-4064-7	136-1-1	2 1/2	Trace	Trace
C68-4064-8	136-2-1	7	Trace	Trace
C68-4064-9	136-2 (2b)-3	8	13.07	0.80
C68-4064-10	136-2 (2d)-2	8	Trace	Trace
C68-4064-11	136-3-1	6	0.66	0.56
C68-4064-12	136-3-2a	3	Trace	Trace
C68-4064-13	136-3-2b	3	Trace	Trace
C68-4064-14	136-3-3	8	Trace	Trace
C68-4064-15	136-4-1	8	Trace	Trace

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

14240-118 AVENUE, EDMONTON, ALBERTA



Date Reported: October 29, 1968

Laboratory Report Number: C68-4213-1

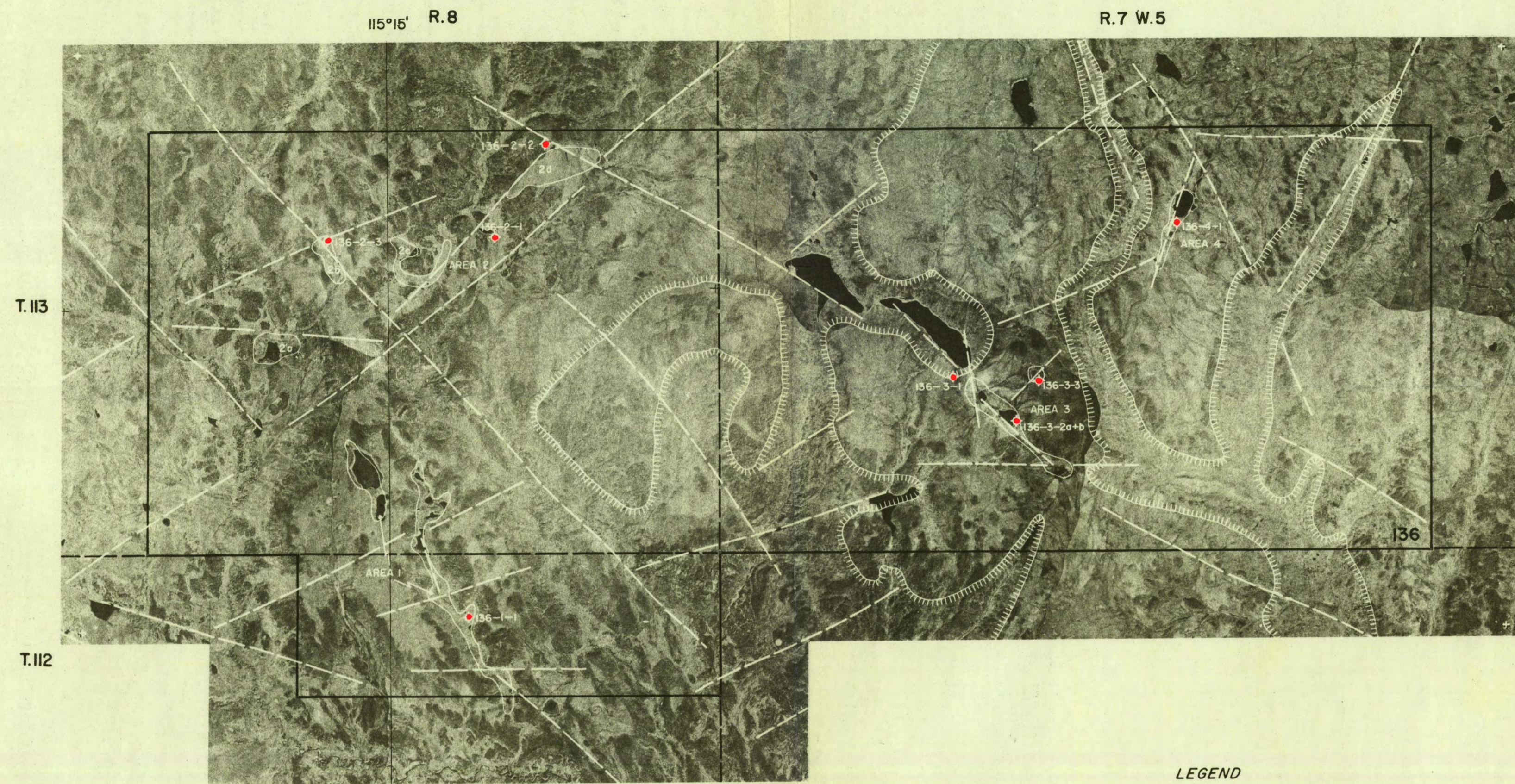
J. C. SPROULE & ASSOCIATES LTD.

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>
135-1-1	4'	22.99
135-1-2	4'	2.78
135-1-3	4'	3.08
135-1-4	4'	Trace
135-2-1	4'	0.35
135-2-1	4'	Trace
135-2 (2b)-3	4'	Trace
135-2 (2d)-2	4'	Trace
135-3-1	4'	Trace
135-3-3	4'	18.41

Wm Morrison



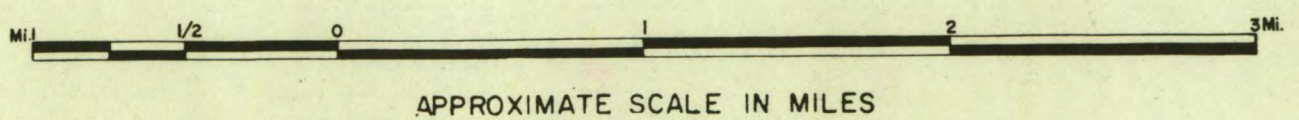
LEGEND

SURFICIAL DEPOSITS
 Muskeg

PHOTOGEOLOGICAL SYMBOLS
 Scarp
 Alignment interpreted to indicate faulting or fracturing in bedrock
 Areas of interest discussed in report
 Sulphur prospecting permit outline
 Sample Location

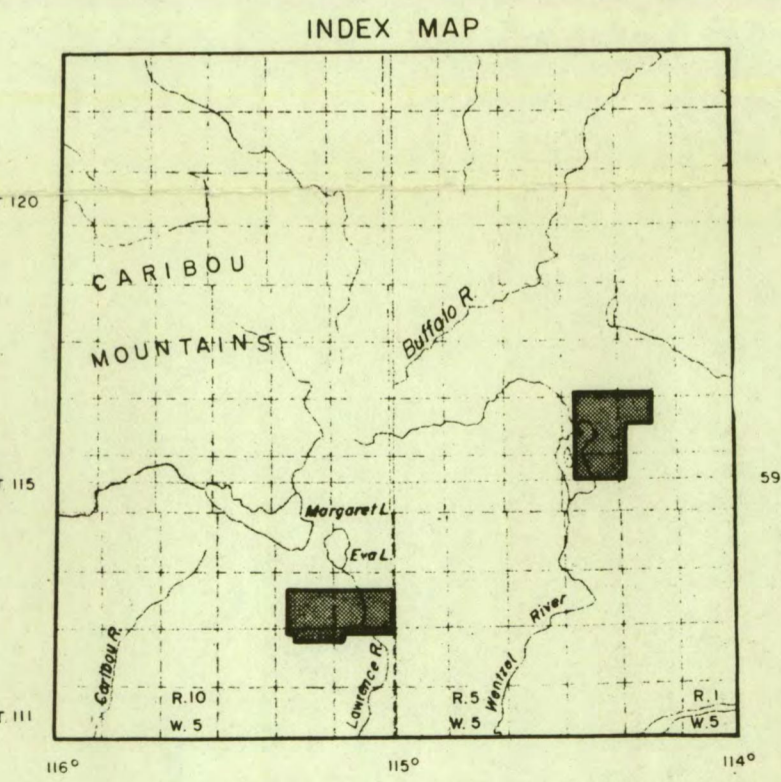
PHOTOGEOLOGICAL MOSAIC
SULPHUR PROSPECTING PERMIT
 Nos. 135, 136
FORT VERMILION AREA
ALBERTA

PREPARED FOR
STAMPEDE OILS LTD.



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



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