

MAR 19680034: NORTHERN ALBERTA

Received date: Dec 31, 1968

Public release date: Jan 01, 1970

DISCLAIMER

By accessing and using the Alberta Energy website to download or otherwise obtain a scanned mineral assessment report, you ("User") agree to be bound by the following terms and conditions:

- a) Each scanned mineral assessment report that is downloaded or otherwise obtained from Alberta Energy is provided "AS IS", with no warranties or representations of any kind whatsoever from Her Majesty the Queen in Right of Alberta, as represented by the Minister of Energy ("Minister"), expressed or implied, including, but not limited to, no warranties or other representations from the Minister, regarding the content, accuracy, reliability, use or results from the use of or the integrity, completeness, quality or legibility of each such scanned mineral assessment report;
- b) To the fullest extent permitted by applicable laws, the Minister hereby expressly disclaims, and is released from, liability and responsibility for all warranties and conditions, expressed or implied, in relation to each scanned mineral assessment report shown or displayed on the Alberta Energy website including but not limited to warranties as to the satisfactory quality of or the fitness of the scanned mineral assessment report for a particular purpose and warranties as to the non-infringement or other non-violation of the proprietary rights held by any third party in respect of the scanned mineral assessment report;
- c) To the fullest extent permitted by applicable law, the Minister, and the Minister's employees and agents, exclude and disclaim liability to the User for losses and damages of whatsoever nature and howsoever arising including, without limitation, any direct, indirect, special, consequential, punitive or incidental damages, loss of use, loss of data, loss caused by a virus, loss of income or profit, claims of third parties, even if Alberta Energy have been advised of the possibility of such damages or losses, arising out of or in connection with the use of the Alberta Energy website, including the accessing or downloading of the scanned mineral assessment report and the use for any purpose of the scanned mineral assessment report so downloaded or retrieved.
- d) User agrees to indemnify and hold harmless the Minister, and the Minister's employees and agents against and from any and all third party claims, losses, liabilities, demands, actions or proceedings related to the downloading, distribution, transmissions, storage, redistribution, reproduction or exploitation of each scanned mineral assessment report obtained by the User from Alberta Energy.

ECONOMIC MINERALS

FILE REPORT No.

S-AF-094(2)

19680034

REPORT ON FIELD EXAMINATION

ALASKA CANADIAN CORPORATION

SULPHUR PERMITS NOS. 18, 94 & 95

NORTHERN ALBERTA

THIS REPORT HAS BEEN PREPARED
FOR THE EXCLUSIVE USE OF:

Alaska Canadian Corporation

COPY NO:.....1.....

REPORT ON FIELD EXAMINATION
ALASKA CANADIAN CORPORATION
SULPHUR PERMITS NOS. 18, 94 & 95
NORTHERN ALBERTA

Prepared For
Alaska Canadian Corporation
November, 1968

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

REPORT ON FIELD EXAMINATION
ALASKA CANADIAN CORPORATION
SULPHUR PERMITS NOS. 18, 94 & 95
NORTHERN ALBERTA

The field work on these permits has been carried out at the request of Mr. C. Fredrickson acting for Alaska Canadian Corporation. The work was authorized under our letter agreement of July 12, 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 12th letter. We quote:

"In Phase II, the field party would, upon arrival in the field, immediately check points of indicated interest that had become evident from 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 three permits would be \$800 per permit unit (approximately 20,000 acres), amounting to a total of \$4,000."

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

"Permit No. 18

Area No. 7

Hole No. 1 - S.E. 32-109-4 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
18-7-1	4	(N.A.)	
18-7-1	8	0.04	Alluvium.

Hole No. 2 - S.E. 36-109-5 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
18-7-2	4	(N.A.)	
18-7-2	8	Trace	Alluvium.

Area No. 8

Hole No. 1 - N.W. 23-109-5 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
18-8-1	4	(N.A.)	
18-8-1	8	Trace	Alluvium.

Area No. 9

Hole No. 1 - N.W. 15-109-5 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
18-9-1	4	(N.A.)	
18-9-1	8	0.33	Dry muskeg.

Permit No. 94

Area No. 1

Hole No. 1 - S.E. 2-106-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
94-1-1	8	2.71	Clay.

Permit No. 94 (Continued)

Area No. 1

Hole No. 2 - N.W. 4-106-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
94-1-2	4	(N.A.)	
94-1-2	8	15.66	Black muck and clay.

Area No. 2 - NO HOLES

Area No. 3

Hole No. 1 - S.W. 28-106-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
94-3-1	4	(N.A.)	
94-3-1	8	4.97	Brown clay.

Area No. 4 - West side of Permit.

Hole No. 1 - N.E. 30-106-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
94-1-1	8	Trace	Wet muskeg.

Area No. 5 - NO HOLES, area well-drained.

Area No. 6

Hole No. 1 - S.W. 23-107-1 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
94-6-1	4	(N.A.)	
94-6-1	8	Trace	Muskeg and lacustrine.

Permit No. 95

Area No. 1

Hole No. 1 - S.E. 14-111-9 W. 5 M. Depth, 8 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-1-1	4	(N.A.)	Clay
95-1-1	8	(N.A.)	Clay.

Hole No. 2 - Ctr. 15-111-9 W. 5 M. Depth, 6 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-1-2	4	(N.A.)	Clay
95-1-2	6	(N.A.)	Clay.

Hole No. 3 - S.E. 20-111-9 W. 5 M. Depth, 5 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-1-3	4	(N.A.)	Clay.
95-1-3	5	(N.A.)	Clay.

Area No. 2

Hole No. 1 - N.W. 35-110-9 W. 5 M. Depth, 4.5 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-2-1	4.5	0.61	Sticky clay.

Area No. 3

Hole No. 1 - S.W. 28-110-9 W. 5 M. Depth, 7.5 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-3-1	4	(N.A.)	
95-3-1	7.5	0.06	Clay.

Permit No. 95 (Continued)

Area No. 4

Hole No. 1 - S.W. 4-111-9 W. 5 M. Depth, 7.5 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-4-1	4	(N.A.)	
95-4-1	7.5	0.45	Sticky clay.

Area No. 5

Hole No. 1 - N.W. 2-111-10 W. 5 M. Depth, 7 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-5-1	4	(N.A.)	
95-5-1	7	0.88	Hard, sticky clay.

Area No. 6

Hole No. 1 - N.E. 12-111-10 W. 5 M. Depth, 7 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-6-1	4	(N.A.)	
95-6-1	7	Trace	Dry muskeg meadow.

Area No. 7

No place to land due to snags. Poor lake deposit prospects.

Area No. 8

Hole No. 1 - S.E. 9-111-10 W. 5 M. Depth, 7 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-8-1	4	(N.A.)	
95-8-1	7	0.33	Sticky clay.

Permit No. 95 (Continued)

Area No. 8

Hole No. 2 - S.W. 9-111-10 W. 5 M. Depth, 5 feet.

<u>Sample No.</u>	<u>Depth</u> Ft.	<u>Sulphur</u> %	<u>Sample</u>
95-8-2	4	(N.A.)	
95-8-2	5	0.20	Sticky clay.

Area No. 9

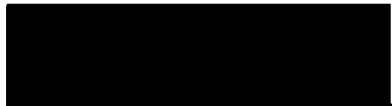
No place to land due to snags and willows. Poor lake deposit prospects."


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 taken from Sulphur Permits Nos. 18 and 95 show only traces or very small percentages of sulphur. The material penetrated was mostly clay, but included muskeg debris and alluvium. These are normally rather high in sulphur in lake or depressional areas where sulphur is known. That being the case, it is reasonably certain that Sulphur Permits Nos. 18 and 95 do not contain occurrences of native sulphur in sufficient quantities to justify further exploratory activity.

Samples taken from Sulphur Permit No. 94 consist of clay, muskeg debris and black muck. Analyses of these were rather low in sulphur content with the exception of one, which contained 15.66 percent sulphur. This sample, No. 94-1-2, was taken from a "long narrow muskeg trending 240 degrees south of the creek." Due to the small size of this muskeg feature, as viewed on the mosaic, it is not believed that additional evaluation is warranted here.

Under the circumstances, we recommend that Sulphur Prospecting Permits Nos. 18, 94 and 95 be abandoned and that the Company request a return of their deposits.


V.A. Farley. *o*


J.C. Sproule, *P.* Geol.

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

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



PRELIMINARY REPORT ONLY

OPERATOR: J. C. Sproule & Associates Ltd.

REPORT NUMBER: C60-3993 and
C60-3991

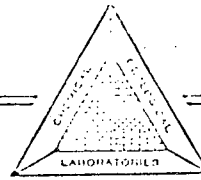
KIND OF SAMPLE: Soil

Date Reported: August 29th., 1960
Date Received: August 22nd., 1960

SAMPLE NUMBER	DEPTH IN FEET	ELEMENTAL SULFUR (% by wt. -dry sample)
95-2-1	4½	0.61
95-3-1	7½	0.06
95-4-1	7½	0.45
95-5-1	7	0.33
95-6-1	7	TRACE
95-8-1	7	0.33
95-8-2	5	0.20

10-7-1	8	0.01
10-7-2	8	TRACE
10-9-1	8	0.33
10-8-1	8	TRACE

Poor Quality
Original



Date Reported: October 7, 1968

Laboratory Report Number: C68-4104

J. C. SPROULE & ASSOCIATES LTD.

Kind of Sample: Soil

Date Received: September 26, 1968

SAMPLE NUMBER	DEPTH IN FEET	ELEMENTAL SULFUR	
		(% by Weight on Dry Sample)	(% by Weight on Wet Sample)
94-1-1	8	2.71	1.51
94-1-2	8	15.66	9.23
94-3-1	8	4.97	2.90
94-4-1	8	Trace	Trace
94-6-1	8	Trace	Trace

SULPHUR PROSPECTING PERMIT No. 94

ALASKA - CANADIAN CORPORATION,
SUITE 220, 630 - 8th AVENUE S.W.,
CALGARY, ALBERTA

DATE OF ISSUE - JANUARY 11, 1968
AREA - 33,280 ACRES

CORRECTION LINE

TP. 107

84J/1+8
SE

TP. 106

R. 2

R. 1 W. 5 M.

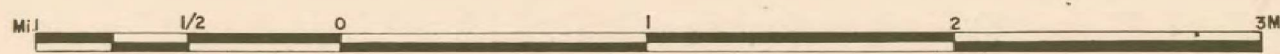
19860034

PHOTOGEOLOGICAL MOSAIC SULPHUR PROSPECTING PERMIT

Nos. 18 and 94

FORT VERMILION AREA ALBERTA

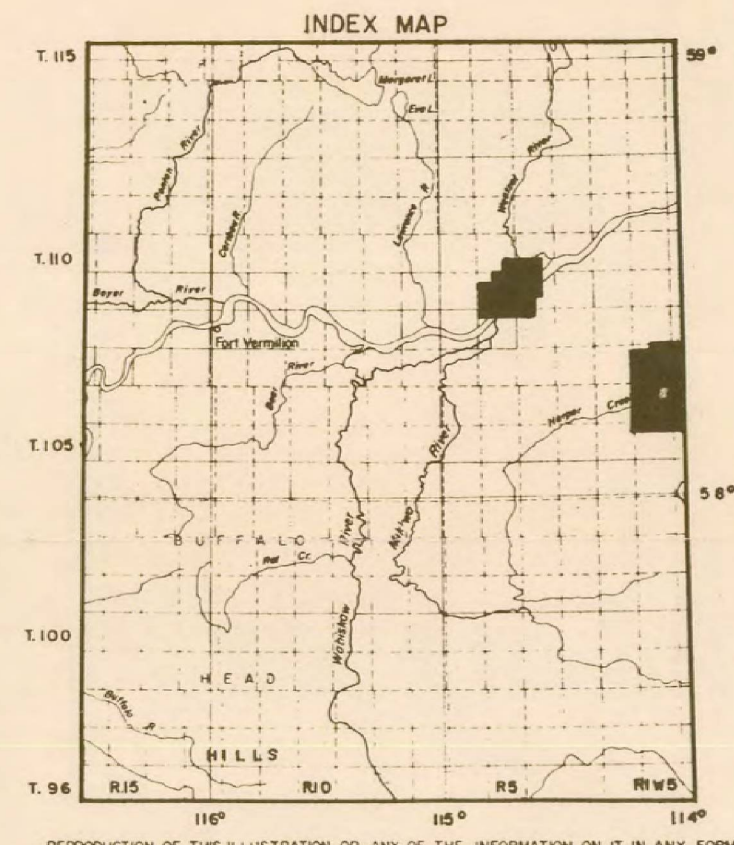
PREPARED FOR
ALASKA CANADIAN CORPORATION



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



REPRODUCTION OF THIS ILLUSTRATION, OR ANY OF THE INFORMATION ON IT IN ANY FORM
IS PROHIBITED WITHOUT THE WRITTEN AUTHORITY OF J.C. SPROULE AND ASSOCIATES LTD.

LEGEND

SURFICIAL DEPOSITS

- Qal Alluvium
- Muskeg

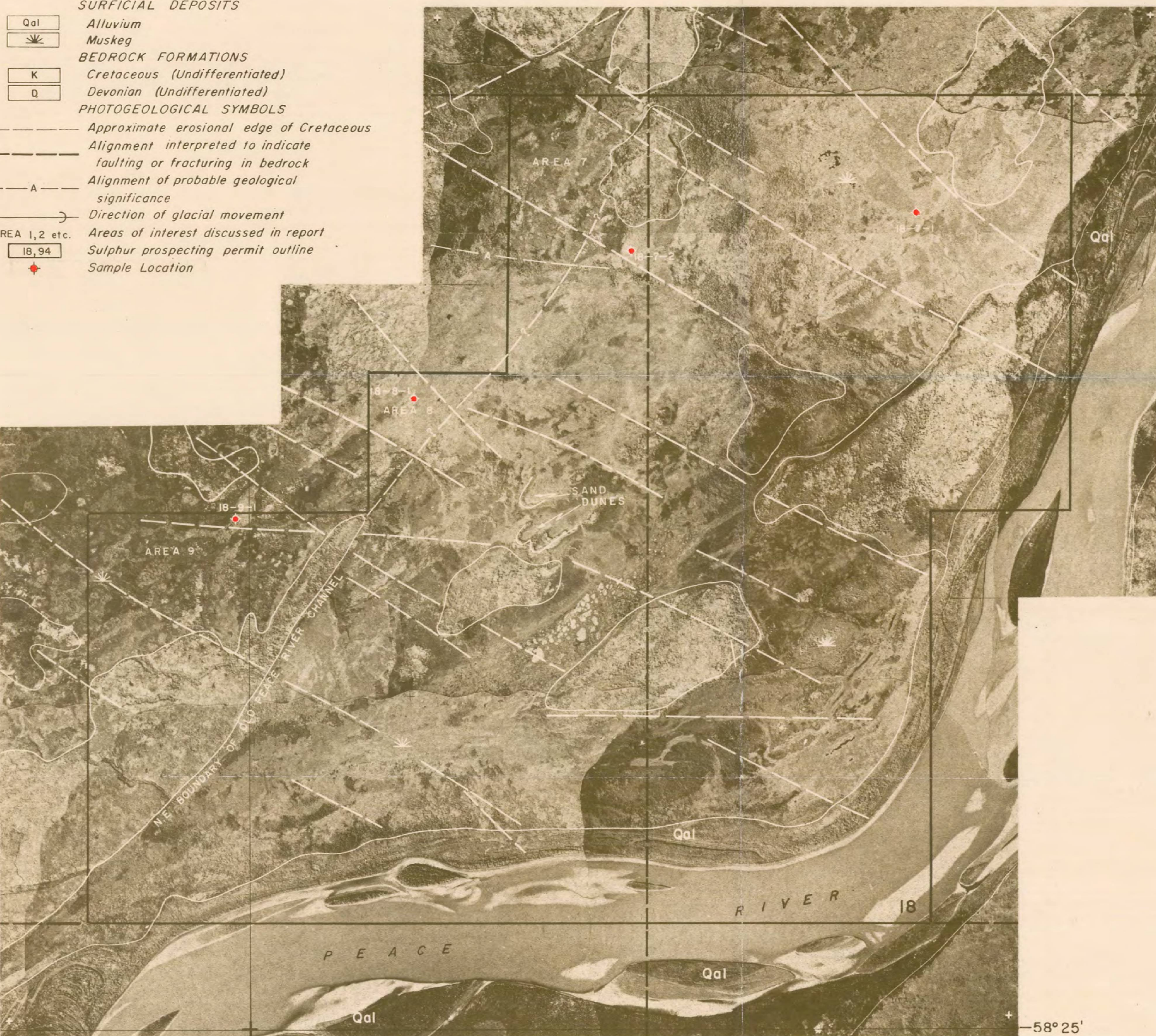
BEDROCK FORMATIONS

- K Cretaceous (Undifferentiated)
- D Devonian (Undifferentiated)

PHOTOGEOLOGICAL SYMBOLS

- Approximate erosional edge of Cretaceous
- Alignment interpreted to indicate faulting or fracturing in bedrock
- Alignment of probable geological significance
- Direction of glacial movement
- AREA 1, 2 etc. Areas of interest discussed in report
- 18, 94 Sulphur prospecting permit outline
- Sample Location

T. 109



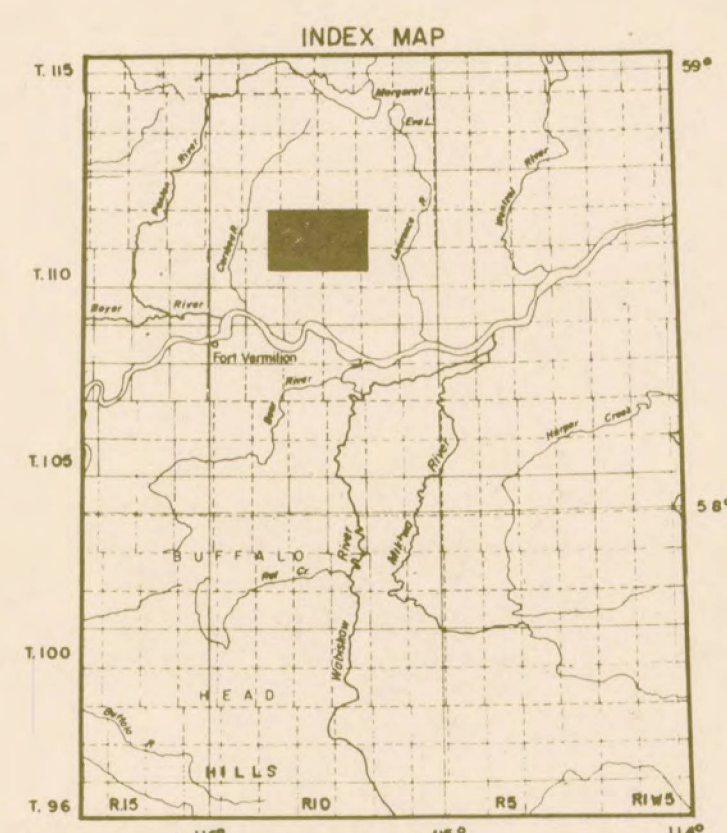
114°45' R.5

R.4 W.5



R.1 W.5

R. 10 115° 30' R. 9 W. 5



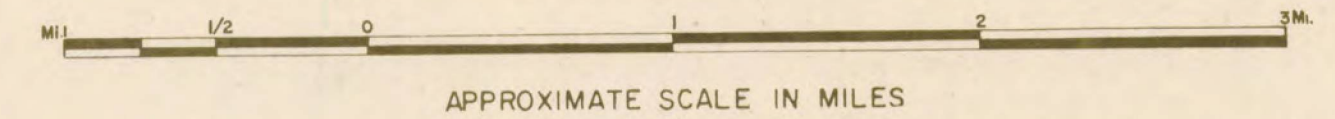
REPRODUCTION OF THIS ILLUSTRATION OR ANY OF THE INFORMATION ON IT, IN ANY FORM IS PROHIBITED WITHOUT THE WRITTEN AUTHORITY OF J.C. SPROULE AND ASSOCIATES LTD.

- LEGEND**
- SURFICIAL DEPOSITS
Muskeg
 - PHOTOGEOLOGICAL SYMBOLS
Alignment interpreted to indicate faulting or fracturing in bedrock
 - AREA 1, 2 etc.
95
 - Sample Location

19860034

**PHOTOGEOLOGICAL MOSAIC
SULPHUR PROSPECTING PERMIT
No. 95
FORT VERMILION AREA
ALBERTA**

PREPARED FOR
ALASKA CANADIAN CORPORATION



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

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