

MAR 19690073: FORT MCMURRAY

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ECONOMIC MINERALS

FILE REPORT No.

S-AF-184(3)

S-AF-185(3)

S-AF-186(3)

S-AF-187(3)

S-AF-188(3)

S-AF-189(3)

S-AF-190(3)

Mr. Lee Morrison, S-AF-191(3)
Sinclair Canada Oil Co., SAF-192(3)
490 Bentall Building,
Calgary 2, Alberta.

Dear Mr. Morrison:

Re: Supplementary Data Relating to Report Entitled,
"Reconnaissance Report, Sulphur Prospecting Permits
Nos. 184 to 192, Bituminous Sand Permits Nos. 82
and 93, Fort McMurray Area, Alberta

Subsequent to the preparation and submission of the above-named report, you drew to our attention the failure of other laboratories to confirm the analyses which you had obtained from Chemical and Geological Laboratories in another area of Alberta. We, therefore, at your request, undertook to obtain check analyses of 14 selected samples from Loring Laboratories Ltd. The report on these check analyses is attached to this letter and on the side of the report sheet we have noted the previous analyses provided by Chemical and Geological Laboratories.

In addition to these check analyses, your office earlier ran similar check analyses on the marl deposits at Station 191-3 in Permit No. 191. The results of these were as follows:

<u>Sample</u>	<u>Loring Analyses</u>	<u>Previous Chemical and Geological Laboratories Analyses</u>
191-3	0.24	Not analyzed
191-3-1	0.23	Trace
191-3-2	0.30	6.64

In reviewing these results, it is noted that the values submitted by Loring Laboratories Ltd. are generally lower than those submitted by Chemical and Geological Laboratories Ltd. The principal exception, oddly enough, has to do with the surface scum sample at the sulphur spring, 187-14-2. This sample is recorded as 20.29 percent total sulphur by Loring but is recorded as only 3.50 percent elemental sulphur by Chemical and Geological Laboratories.

INDEXING DOCUMENT NOS.

700570
700573
700576
700579
700582
700585
700588
700591
700594

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Many of the samples re-tested have a high organic content. Although the managers of both labs defend their procedures, they concede that it is possible that certain organic materials and paraffins could be recorded as sulphur.

From this new data and from other recent experiences in checking sample analyses in several commercial laboratories, we are forced to question the reliability of the results of analyses obtained from Chemical and Geological Laboratories.


In this circumstance, we wish to revise the recommendations made on page 11 of our report of November 26, 1969. At that time we recommended that consideration be given to seven specific points. Our present thoughts on these points are as follows:

- (1) The same as stated.
- (2) The same as stated.
- (3) If commercial deposits of sulphur are to be found on any of the subject permits, Permit No. 187 appears to have the most prospective locations. Station 187-14 at the east edge of the permit (See plate IA) is one area which could be more thoroughly checked by drilling and sampling. Further drilling and sampling could also be undertaken at Station 187-22, where somewhat similar surface conditions are present. Consideration should be given to renewing for further study that area of Permit 187 which is in the Clearwater River valley.
- (4) Permit No. 184 is, in our opinion, not as prospective as Permit No. 187 but, if further work is to be done on Permit No. 187, consideration should be given to also renewing that part of Permit No. 184 which is in the Clearwater River valley.
- (5) On the basis of the later analyses we do not recommend retaining Permit No. 191.
- (6) On the basis of the later analyses we do not recommend retaining Permit No. 192.
- (7) The same as stated.

In making our recommendations we have considered only the possibilities of sulphur in surficial deposits. The possibility remains that commercial deposits of sulphur, perhaps related to gypsum, could be present within the Devonian beds.

Respectfully submitted,

J. C. Sproule and Associates Ltd.

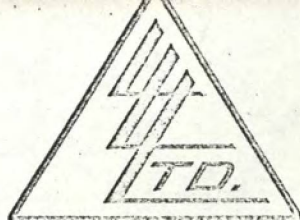

S. R. L. Harding, P. Geol.

SRLH/dh
Encl.

To: J. C. SPROULE & ASSOCIATES

1009 - 4 Avenue S. W.

Calgary Alberta



File No. 1597

Date January 13, 1969

Samples soil rejects

Certificate of
ASSAY

LORING LABORATORIES LTD.

629 BEAVERDAM RD., N.E., CALGARY 67

PHONE 277-6797

SAMPLE No.	Total %S	Previous Analyses Elemental Sulphur, Chemical & Geological Laboratories.
187-22-2	1.07	1.05
187-2-2	1.99	2.23
187-14-2	20.29	3.50
187-14-3	.84	2.42
187-14-4	.51	2.00
187-23	2.20	2.04
191-13	.03	6.74
191-4	.44	1.70
192-3	trace	trace
192-6	.02	6.95
192-8	.64	8.99
192-9	1.51	2.55
192-10	3.02	4.26
184-10A	.97	2.50

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

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



Provincial Assayer of British Columbia