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Ret'n
[Handwritten signature]

February 7th, 1969.

Mr. D. G. Penner,
Ranger Oil (Canada) Ltd.,
300 - 5th Avenue, S.W.,
CALGARY 1,
Alberta.

19690068
ECONOMIC MINERALS
FILE REPORT No.
S-AF-156(2)
S-AF-157(2)

Dear Mr. Penner,

Re: Sulphur Prospecting
Permits Nos. 156 and 157

We wish to summarize matters relating to Sulphur Prospecting Permits Nos. 156 and 157 that we have discussed with you over the past few weeks.

During the past year we have conducted preliminary field examinations of Sulphur Prospecting Permits for a number of clients. Samples collected in the field were analyzed for sulphur content by Chemical and Geological Laboratories and our recommendations to clients have been based on the results.

Late in 1968 one of our clients arranged for check analyses of samples from Sulphur Prospecting Permits to be made by several other laboratories and the results showed that many of the reported higher sulphur values could not be confirmed. Indeed, there were alarming discrepancies between the results. In general, and particularly with the muskeg samples which were high in organic material, the Chemical and Geological Laboratories results were much higher than the results from other laboratories. We have discussed this situation with the Managers of the several laboratories and, although each defends his particular procedure, it appears that errors in analyses for elemental sulphur can develop in samples with high organic content. In other words, it is possible that organic materials or paraffins may be recorded as sulphur.

We took the liberty of having Loring Laboratories Ltd. of Calgary make check analyses on samples from Permits Nos. 156 and 157 for which initial high values had been recorded. The results indicated no significant

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Mr. D. G. Penner

February 10, 1969

amounts of sulphur to be present. We attach hereto a copy of the Loring report. Following discussion with you, we asked Chemical and Geological Laboratories to conduct analyses on the "pulp" which Loring had prepared from the selected samples. The results of these further analyses were reported to us verbally by Mr. Wm. Morrison of Chemical and Geological Laboratories Ltd., and they were comparable to the Loring results.

The following table summarizes the analyses made on samples from Permits Nos. 156 and 157.

SUMMARY OF SAMPLE ANALYSES
SULPHUR PROSPECTING PERMITS Nos. 156 and 157

Sample No.	Elemental Sulphur % by Weight of Dry Sample		
	by Chemical and Geological Laboratories Limited	by Loring Laboratories Limited	by Chemical and Geological Laboratories Limited on Loring "Pulp"
156-1-1-4'	18.30	2.68	sample too small
156-1-1-8'	Trace	not analyzed	not analyzed
156-2-1-4'	22.34	0.46	0.57
156-2-1-8'	2.51	Trace	Trace
156-3-1-4'	Trace	not analyzed	not analyzed
156-3-1-8'	Trace	"	"
157-1-1-4'	1.56	"	"
157-1-1-8'	0.67	"	"
157-2-1-4'	Trace	"	"
157-2-1-8'	22.43	Trace	0.41
157-3-1-4'	Trace	not analyzed	not analyzed
157-3-1-8'	Trace	"	"

Mr. D. G. Penner

February 10, 1969

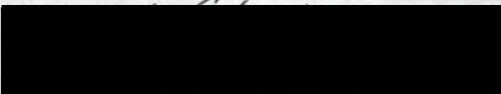
We are aware that Chemical and Geological Laboratories Ltd. has suggested that Loring Laboratories may have driven off the sulphur by overheating the samples when drying. Loring's response is that there isn't "a chance in a million" that this happened. Be this as it may, we are convinced, on the basis of widespread check analyses on many samples by several laboratories, that the higher sulphur values initially reported on samples from Permits Nos. 156 and 157 must be strongly discounted.

In our report of November 15, 1968, we recommended that Sulphur Prospecting Permit No. 157 should be abandoned but that part of Sulphur Prospecting Permit No. 156 should be considered for retention and possible further exploration. We now wish to confirm our revised recommendation, which we have already made known to you verbally, that the possibility of locating a commercial deposit of sulphur on Permit No. 156 is sufficiently remote that no further exploration effort is justified.

We enclose herewith our final invoice for work relating to Sulphur Prospecting Permits Nos. 156 and 157.

Sincerely,

J.C. SPROULE AND ASSOCIATES LTD.


S.R.L. Harding P. Geol.

ENCS.

SRLH/emp

To: J. C. SPROULE & ASSOCIATES
P. O. Box 2525
Calgary, Alberta



File No. 1594
Date January 9, 1969
Samples reject soils

Certificate of
ASSAY of
LORING LABORATORIES LTD.

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

SAMPLE No.	Elemental %S
156-1-1-4'	2.68
156-2-1-4'	.46
156-2-1-8'	trace
157-2-1-8'	trace

These assays for elemental sulphur were analysed by the aniline procedure, outlined by Low, Weinig, & Schoder.

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