MAR 19690062: ALBERTA

Received date: Dec 31, 1969

Public release date: Jan 01, 1971

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.
Edmonton, Alberta  
February 10, 1969

Director,  
Minerals Division,  
Department of Mines and Minerals,  
Agriculture Building,  
9718 - 107 Street,  
Edmonton, Alberta.

Dear Sir:

RE: Sulphur Permit No. 84.

This is to advise your Department of the progress of our investigations on Sulphur Permit No. 84, and to advise that we will not renew this permit as our investigations did not reveal commercial quantities of sulphur.

We would appreciate refund of whatever portion of our deposit is refundable under the circumstances.

Investigation Conducted

Commencing last February Mr. Vos and two associates visited slumping areas on Section 15 in Township 37, Range 21, West of the 5th Meridian in order to determine if surface sulphur evidenced there could be traced back to deposits which warranted thorough investigation.

Only surface "hot-spring" sulphur deposits could be located in the slide area, which was revisited by the same group on several occasions.

It was determined that the clay material containing the sulphur had slumped down the slope from fairly near the top. It was felt that perhaps layers of material with high sulphur content may exist at that level, with sulphur concentrations being greatly reduced as pieces of the bank broke off and crashed down the hill mixing everything together.

Because there was no clearly exposed face, it was thought necessary to drill to determine what the undisturbed layers looked like, and to see if there was a layer containing sulphur.

Consequently a seismic drilling rig was rented from Mr. Utas of Grimshaw and five holes were drilled to a depth of 50 feet. Samples were taken periodically as each hole was drilled. The drill locations were spaced along and just back from the top of the slide area in which surface sulphur was evidenced. Nothing was found except clay, soft shale and silt stone.

Following this failure, it was determined that perhaps an exposed face could be located along the Whitewash River which flows through sulphur permit 84.

Consequently an aircraft was obtained from Mr. V. Estabrooke of Grimshaw, who flew the valley on two occasions.
Several vertical faces were located which showed the stratification for up to 80 feet below the surface. It was not possible to determine the nature of the strata from an aircraft however, and so a helicopter was rented from Rocky Mountain Helicopters and on July 2, 1968 two experienced men were flown in to examine the exposed faces and obtain samples if any probable value was located.

They located one face in Section 26 in Township 87, Range 21, West of the 5th Meridian which on close examination from the helicopter revealed apparently high concentrations of sulphur. The entire face was yellow in appearance.

Consequently a helicopter landing area was cleared near the top of this face and samples were taken and flown out.

All appearances at this time were that a substantial thickness of sulphur-rich material had been located. The material sampled was sulphur yellow in appearance, with relatively little impurity.

Consequently the samples were analyzed by Chemical and Geophysical Laboratories Ltd.

The results of this analysis (see attached) were completely negative. We had located a low grade limonite (Ferric chloride) deposit.

After some deliberation it has been decided not to obtain mineral exploration rights for the iron-ore on this area. Although substantial tonnages are indicated, the grade is too low to be commercial.

Since we have no further interest in this area, we would appreciate refund of our deposit.

Our delay in advising your office of our intentions on this area is regretted, and it is our hope that we have caused no inconvenience. We had informed Mr. Seaton by telephone some weeks ago of our intentions but some delay was caused by our consideration of whether or not to obtain a quartz mineral exploration permit and examine the economics of the iron ore. We have abandoned this idea because of the limited markets and low grade of the deposit.

Yours truly,

for: Vos and Associates.
Date Reported: August 29, 1968  
Laboratory Report Number: E68-7559

Kind of Sample: Ore  
Date Received: August 15, 1968

<table>
<thead>
<tr>
<th>LABORATORY NUMBER</th>
<th>SAMPLE NUMBER</th>
<th>SULFUR (% by Weight)</th>
<th>GYPSUM (% by Weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E68-7559-1</td>
<td>1</td>
<td>0.09</td>
<td>0.89</td>
</tr>
<tr>
<td>E68-7559-2</td>
<td>2</td>
<td>0.11</td>
<td>0.21</td>
</tr>
<tr>
<td>E68-7559-3</td>
<td>3</td>
<td>0.05</td>
<td>0.64</td>
</tr>
<tr>
<td>E68-7559-4</td>
<td>4</td>
<td>0.02</td>
<td>0.31</td>
</tr>
</tbody>
</table>
**Chemical & Geological Laboratories Ltd.**

Date Reported: September 4, 1968

Laboratory Report Number: E68-7559-4

**VOS & ASSOCIATES**

KIND OF SAMPLE: Ore  
Date Received: August 15, 1968

<table>
<thead>
<tr>
<th>LABORATORY NUMBER</th>
<th>IDENTIFICATION</th>
<th>IRON % BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>E68-7559-4</td>
<td>#4</td>
<td>25.47</td>
</tr>
</tbody>
</table>
SULPHUR PROSPECTING PERMIT No. 84

DIRK VOS and VERNON ESTABROOK
% DIRK VOS TRANSPORT LTD.,
P.O. BOX 548,
PEACE RIVER, ALBERTA.

DATE OF ISSUE — JANUARY 11, 1968
AREA—19,840 ACRES.