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.
Suphur Prospecting Permit No. 61 (79,360 acres) was acquired by Texaco Exploration on December 18, 1967 and was surrendered one year later after exploration work failed to indicate the presence of sulphur. The discovery deposit which sparked the Northern Alberta elemental sulphur play is unique to Canada. The lack of experience in exploring for this element necessitated a great deal of research into geological literature in order to arrive at an exploration program that was practical, efficient and was based on sound geological reasoning. Exploration methods considered are as follows:

1. Photogeology - used in selection of areas where sulphur rights were obtained.

2. Geochemical surveys of creeks and streams - not sufficiently definitive.

3. Aerial remote sensing - heavy glacial cover severely reduces its usefulness.


5. Detection of traces of H$_2$S in shallow holes.

6. Resistivity surveys - compromised by presence of clay and shale with sulphur.

7. Reconnaissance drilling.

Texaco concluded that drilling offered the most positive information.

Exploration on Permit No. 61 was conducted during November and December, 1968 and consisted of 289 twelve foot deep auger holes spaced at 1,000 foot intervals along 54 miles of existing seismic lines. The twelve foot depth was judged adequate for reconnaissance drilling based on industry's experience during the winter of 1967-1968 when any sulphur found always was present at least as high as ten feet below the surface.

Two samples were taken from each hole and qualitative flame
tests were run for presence of sulphur and semi-quantitative tests for water soluble sulphates. The latter test was included as a possible indirect clue to the presence of sulphur. As mentioned previously no sulphur was detected in any of the 578 samples. With the exception of the two areas marked on the accompanying map the background sulphate content was too high to allow utilization of this method of indirectly indicating possible sulphur in the vicinity. The two marked areas showed essentially no sulphate content.

In view of the completely negative results of the auger hole program it was decided to surrender this Permit.

TEXACO EXPLORATION COMPANY

TD/d1
Attch.

W. H. Rimmer,
Chief Geologist.

Calgary, Alberta,
January 6, 1969.
SULPHUR PROSPECTING PERMIT NO. 61

CANCELLED
TEXACO EXPLORATION COMPANY,
600 - 6th AVENUE S.W.,
CALGARY, ALBERTA.

DATE OF ISSUE — DECEMBER 18, 1967
AREA — 79,360 ACRES.

NO LEASES SELECTED.