

# MAR 19680123: FORT VERMILION

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May 21, 1968

TELEPHONE  
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Government of the Province of Alberta,  
Department of Mines & Resources,  
Administration Building,  
Edmonton, Alberta

ECONOMIC MINERALS

FILE REPORT No.

S-AE-147(1)

Attention: Mr. J. W. Patrick

Dear Sirs :            Re: Sulphur Prospect Permit No. 147.  
                          Spartan Developments Ltd.  
                          308 Toronto-Dominion Bank Bldg., Edmonton

The above Permit was acquired to support a prospecting program designed to investigate the nature and value of sulphur occurrences associated with warm sulphurous springs and other sulphur staining in the Fort Vermilion area.

Initially, it was hoped or considered that the source of the sulphur might be the Middle Devonian Elk Point Evaporites. Such a situation would imply a vast source reaching surface along fault fractures with the resultant accumulation covered only by a mantle of drift.

Re-evaluation however, indicates that these sulphurous springs are only seepages of connate sulphurous waters from the Grosmont reef which is here covered, at most, by a thin mantle of glacial material and Cretaceous shales. In deeper valleys, the reef is exposed. Vermilion Chutes are rapids due to the outcrop of the reef in the bed of the Peace River. These seeps are ancient and there may have been some local concentration of sulphur by glacial and recent ground waters, giving misleading high assays. For the most part, the sulphur is contaminated with Cretaceous shales, detritus and glacial material resulting in generally low assays.

With such meagre source and considering the methods of concentration, there can be no resulting sulphur deposits of economic importance. This is particularly true in the face of the vast amounts of sulphur being developed and produced by the petroleum industry.

On the basis of the above, there is no foreseeable market for this sulphur and there is no merit in continuing and/or attempting further development.

Respectfully submitted,

GALLUP EXPLORATION AND SERVICES LTD.

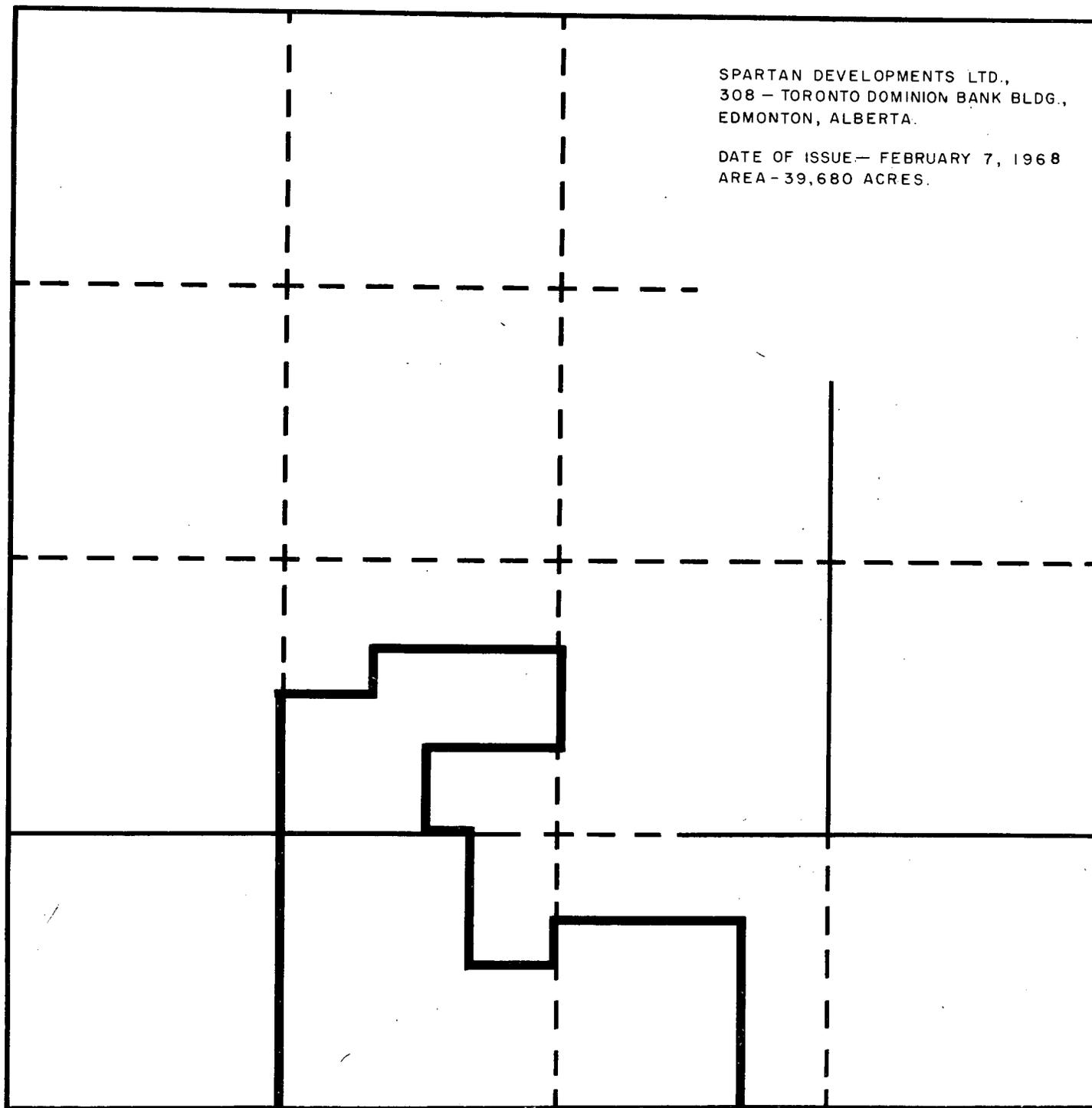


W. B. Gallup, P. Geol.

# SULPHUR PROSPECTING PERMIT No. 147

SPARTAN DEVELOPMENTS LTD.,  
308 - TORONTO DOMINION BANK BLDG.,  
EDMONTON, ALBERTA.

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