

# MAR 19670012: SOUTHWESTERN ALBERTA

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ECONOMIC MINERALS  
FILE REPORT No.  
PHS-AE-020(2)

REPORT NO. 2

ALBERTA ROCK PHOSPHATE PERMIT NO. 20

FOR

WESTERN WARNER OILS LTD.

REPORT NUMBER 2

ALBERTA PHOSPHATE

PERMIT NO. 20

for

WESTERN WARNER OILS LTD.

by

F. A. Peel,  
P. Geologist

2208 - 18A Street S.W.,  
Calgary, Alberta.

February 24, 1967

Western Warner Oils Ltd.,  
215A - 10th Street N.W.,  
Calgary, Alberta.

Dear Sirs:

Re: Rock Phosphate Permit No. 20

Further examination of this property since our report dated August 1966, by a study of samplings, thicknesses and attitudes of the phosphate deposits along your Rock Phosphate Permit No. 20 indicates that the deposit has a maximum average thickness of 2 feet with P<sub>2</sub>O<sub>5</sub> content varying from 4.52% to 22.50%. It is my opinion that this deposit would not be of commercial value for a Minimum of five to ten years.

I spent several days in Montana on behalf of Western Warner Oils Ltd. to ascertain if there was anything of a mining or technical nature that would assist in making your properties economic. Because Montana mines have a higher percentage of P<sub>2</sub>O<sub>5</sub> and thicker deposits they do not have the problems that will encountered on Permit No. 20.

The phosphate on Permit No. 20 dips from 30 degrees to 45 degrees to the west and it would be necessary to employ

Western Warner Oils Ltd.

February 24, 1967

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an underground timbered stope method in order to mine the deposit. The outcrops occur along a steep topography and open pit mining could not be employed to supplement the underground workings. Since phosphate is a low cost commodity and stope mining is one of the more costly methods, the cost of mining this deposit would surpass the present price of rock phosphate. A maximum thickness of only 2 feet as indicated by surface investigation does not enhance the prospect of a commercial deposit.

I feel by using the Multi Minerals new process of producing phosphoric acid the costs would not be deleted sufficiently to offset the high mining costs.

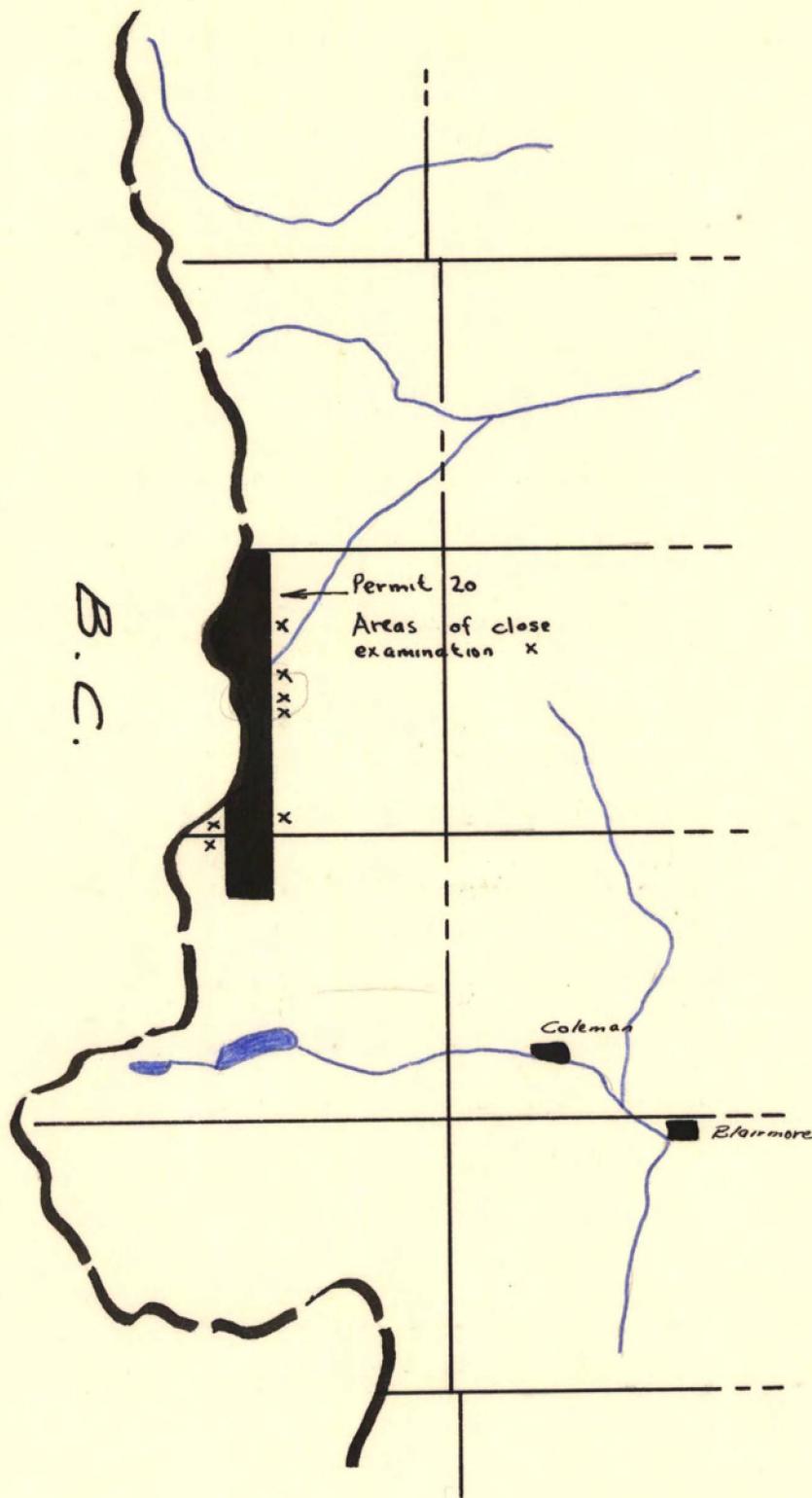
I do feel however, that this deposit should not be completely forgotten. The increasing consumption of fertilizers may cause a sufficient increase in the price of rock phosphate to make this deposit of economic value in the future.

I would recommend that Rock Phosphate Permit No. 20 be dropped at its expiry date of February 28, 1967.

Yours truly,

  
F.A. Peel, P. Geol.

FAP/ge



MAP-REPORT 2

ROCK PHOSPHATE PERMIT 20

WESTERN WARNER OILS LTD. ~~OP~~