

MAR 19540006: CLEAR HILLS

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C O P Y

901 - 8th Avenue West
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November 25, 1954

Mr. G. R. Haun
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ECONOMIC MINING

FILE REPORT No.

FE-AF-004(03)

Dear Sir:

The following is a discussion on the results of the work done to date on Iron Prospecting Permit No.4.

A map is submitted showing the location of the various bore holes and core holes drilled in the area. The areas of the various Iron Prospecting Permits are outlined. An extrapolation of isopach data is made northward from the locale of the core hole survey into Permit No.4. The minimum thickness of iron formation which could be conceived as being commercial is ten feet. The ten foot isopach line strikes north-northwest through the northeast part of the permit. The southwest two-thirds of the permit can therefore be considered as having no possibilities of containing a commercial thickness of the oolitic iron formation.

A topographic map is submitted. This map was drawn from aerial photographs by Blanchet, Trorey and Associates Limited, Consulting Engineers, Calgary. The core hole survey found the oolitic iron body at a surveyed elevation of 2600 to 2540 feet. The maximum conceivable overburden that could be allowed when considering a commercial mining proposition would be seventy-five feet for an ore thickness of an average ten feet. Therefore the areas which have an elevation between 2675 and 2540 are the areas which have commercial possibilities. This area is outlined on the topographic map. The ten foot isopach line is also sketched on the map. The area of interest in this permit can therefore be limited to the area that is shaded.

It should be noted that the extreme southeast corner of the permit has elevations which should make this also an area of interest. However, referring to the core drill map it is apparent that this area has been eroded and filled with glacial debris. Similarly the 4½ sections to the north, designated as an area of interest is a maximum area as undoubtedly portions of this area similarly have been eroded and filled with glacial till.

G. R. Haun

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The surface geological party which was in the area found no evidence of the presence of oolitic iron ore in this locale either as outcrop or float. While this cannot be considered as absolute proof that the formation does not occur here it is a discouraging factor.

The final comment is that this area of interest of only $4\frac{1}{2}$ sections lies twelve miles north of the main body of the iron formation and may be considered therefore as an outlier of the main body even if it is present.

For this reason it is recommended that the Permit be terminated at this time as having no commercial worth.

Yours very truly,

D. B. McDougall