

MAR 19520002: ALBERTA

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8-A-5.

ECONOMIC MINERALS
FILE REPORT No.
BNT-AF-02(1)

Report on
Core Drilling Survey
for
F. J. Hamilton

September 2, 1952

G.C. Beard.

BEARD DRILLING CO. LTD.**SLIM HOLE - STRUCTURE TESTING**8-A-5
2002-29TH STREET S.W.,**CALGARY, ALBERTA**

September 2, 1952

Mr. F. J. Hamilton,
2136 - 29th Ave. S.W.
Calgary, Alberta.

Dear Mr. Hamilton:

In compliance with your request and previous negotiations a Core Drilling Survey was conducted in the area and at the locations designated by you. This report covers the activities of the operations in this survey.

We moved the drilling equipment from Eastern Alberta to the location of the first drilling site, where as will be evident from the accompanying drilling and coring data sheets the Bentonite bed was found in a continuous bed from thirty five (35') to seventy five feet (75').

Not realizing that the Bentonite was so soft in this area the majority of the core was washed away resulting in very poor recovery in the upper part of this hole but I can assure you that the drilling was consistent throughout the entire interval indicative of the same material in this entire zone. Furthermore the cuttings brought up by the circulating fluid contained nothing but the bentonite. Resorting to the method of cutting down the pump pressure by bleeding off part of the circulating fluid through the by-pass hose in the later cores we were able to obtain better recovery. We planned on using this technique and further improving it in the subsequent holes and thus insure better recovery but unfortunately we never in any of the following holes encountered the Bentonite bed, which was your objective, and hence did not apply this method.

Appreciating that your future operations would entail stripping of the overburden in order to get down to the desired Bentonite and knowing that this stripping could only be carried to an economic depth before becoming prohibitive we drilled the upper portion of the holes and planned on coring when the Bentonite appeared. From our experience at Hole No.1. this Bentonite rolls out of the hole very freely when encountered, hence is quite evident in the cuttings from the circulating fluid. Another determining factor indicative of when to cease drilling and when to commence coring is the drilling conditions of the Glacial Drift. Throughout all of the remaining holes the drilling bit was rattling on Glacial Boulders or was being drilled by the pumps alone in Glacial Sands.

BEARD DRILLING CO. LTD.**SLIM HOLE - STRUCTURE TESTING**

2002-29TH STREET S.W.,

CALGARY, ALBERTA


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The entire programmed was conducted in an endeavour to obtain the desired information at the most reasonable cost to you. As you are aware it was definitely to my advantage, economically, to core as much as possible as our agreement called for a payment of Two Dollars and Fifty Cents (\$2.50) per foot for that operation. However, knowing that the same positive information was being obtained by drilling at the cheaper One Dollar and Twenty Five Cents (\$1.25) per foot we adopted this operation as long as we were positive that the drilling bit was penetrating Glacial Drift. Now, realizing that we were not obtaining your objective bed of Bentonite in these holes I instructed the drillers to drill in preference to coring, firstly because it was cheaper for you, and secondly because the bit was penetrating only Glacial Drift. At frequent intervals cores were attempted mainly for the purpose of obtaining a definite and positive sample to prove the existence of the presence of Glacial Drift.

Thanking you for the privilege of conducting this survey and hoping that I may be of service to you in the future, I remain,

Sincerely yours,

Beard Drilling Co. Ltd.

Per 
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(G.C. Beard)

Summary of Drilling & Coring Activities.

<u>Hole Number</u>	<u>Drilling</u>			<u>Coring</u>			<u>Recovery.</u>	<u>Formation.</u>
	<u>From</u>	<u>To.</u>	<u>Total</u>	<u>From</u>	<u>To.</u>	<u>Total</u>		
1.	0'	15'	15'	15'	25'	60'	2'6"	Drift
				25'	35'		6"	Drift
				35'	45'		7'	Bentonite
				45'	55'		1'	Bentonite
				55'	65'		1'6"	Bentonite
			65'	75'		5'6"	Bentonite.	
2.	0'	15'	15'	15'	25'	50'	6"	Drift
				25'	30'		6"	Drift
				30'	40'		3"	Drift
				40'	55'		6"	Drift
				55'	65'		1'6"	Drift.
	65'	100'	35'					
3.	0'	20'	20'	20'	35'	35'	6"	Drift
				35'	45'		2'	Drift
				45'	55'		6"	Drift, coal Carb. Shale. Shale & Sds.
	55'	75'	20'					
4.	0'	60'	60'					Drift.
5.	0'	25'	25'	25'	35'	20'	1'	Drift.
				35'	45'		6"	Drift.
	45'	80'	35'					Drift.
6.	0'	80'	80'					Drift.
7.	0'	90'	90'					Drift.
			<u>395'</u>			<u>165'</u>		

September 2, 1952

Beard Drilling Co. Ltd.

Per.....
(G.C.Beard)