

2-1-26W

ABERCROMBIE DRILLING, INC.

GEOLOGICAL REPORT

HELM "B" #1

Location: C SW NW  
Sec. 2-1S-26W  
Decatur County, Kansas

Geologist: Jack K. Wharton

Contractor: Co. Tools Rig #10

Elevation: 2487 K.B.  
2485 D.F.  
2479 G.L.

Spud Date: November 16, 1973

Drig. Completed: November 22, 1973

Electric Log: None

Casing Record:  
10-3/4" at 200' w/125 sx.

Drill Stem Tests:  
#1 3297-3340  
#2 3448-3480

<u>Formation</u>	<u>Sample</u>	<u>Sub-sea</u>
Anhydrite	1953	+ 534
B/Anhydrite	1991	+ 496
Heebner	3251	- 764
Toronto		
Lansing	3284	- 797
Base of Kansas City	3500	-1013
Reagan Sand	3600	-1113
Granite Wash	3604	-1117
Total Depth	3610	-1123

SAMPLE DESCRIPTIONS

Heebner 3251 (- 764)

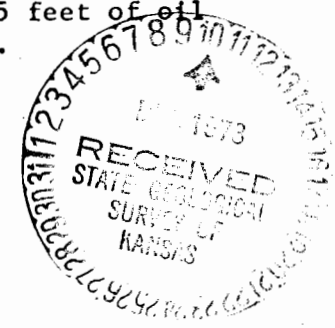
Lansing 3284 (- 797)

3284 to 3288 Limestone, cream-white to reddish-white, fossiliferous in part, dense, tight and shaley. No show.

3330 to 3335 Limestone, grey-white, fine crystalline, fossiliferous, sub-oolitic with scattered good vugular porosity. Abundant tarry oil, some fair gassy oil, near uniform stain.

Drill Stem Test #1 (3297-3340) Open 30 min., shut in 30 min., open 30 min., shut in 30 min. Weak blow for 25 minutes and died. Recovered 15 feet of oil cut mud. IFP 30#-30#, IBHP 239#, FFP 35#-35#, FBHP 101#.

State Geologist  
WICHITA, KANSAS



3365 to 3375 Limestone, buff to grey-white, fine crystalline, sub-chalky in part. No show.

3400 to 3408 Limestone, buff-brown, micro-crystalline, some scattered spotty stain, no free oil or odor.

3441 to 3450 Limestone, buff, fossiliferous with some tarry spotty stain. No free oil, some poor vugular porosity.

3466 to 3480 Limestone, buff-white, fine crystalline to sub-chalky occasional vug with light stain. No free oil or odor.

Drill Stem Test #2 (3448-3480) Open 15 min., shut in 45 min., open 1 hour, shut in 45 min. Recovered 2375 feet of water, 35 feet of mud. IFP 472#-1077#, IBHP 1106#, FFP 1100#-1106#, FBHP 1106#.

Base of Kansas City 3500 (-1013)

Reagan Sand 3600 (-1113)

3600 to 3604 Sandstone, grey-green, glauconitic, and shaley with fine to coarse grains, friable. No odor, no stain.

Granite Wash 3604 (-1117)

Structural Comparison to Nearby Tests

<u>Abercrombie</u>	<u>Abercrombie</u>	<u>Sauvage</u>
Helm "B" #1	Helm #1	Kilzer #3
C SW NW	C NE SE	C SE SE
Sec. 2-1S-26W	Sec. 2-1S-26W	Sec. 3-1S-26W

Formation

Anhydrite	+ 534	+ 509	----
Lansing	- 797	- 821	- 797
Granite Wash	-1117	-1136	---

Remarks and Recommendations

Due to the structural position on the Lansing formation and the negative drill stem tests, it was recommended that the Helm "B" #1 be plugged and abandoned.

Very truly yours,  
*Jack K. Wharton*  
 Jack K. Wharton

