

DRILLER'S LOG

JAN 16 1971
Imperial Oil Company
700 Fourth National Building
Wichita, Kansas 67202

GRAVES "B" No. 1
C SW SE Section 13-34S-14W
Barber County, Kansas

Total Depth: 4755'

Dry/miss

Elevation: 1620' K.B.

Commenced: October 26, 1970 Completed: Nov. 6, 1970
Plugged & Abn. 12-28-70

Contractor: Imperial Oil Co., Rig #2

Casing Record: Set 8-5/8" surface casing at 350' with 285 sacks of cement. Set 4 1/2" production casing at 4754' with 125 sacks of cement.

Figures indicate bottom of formations:

	<u>Sample Tops</u>	
45' Shale & Rock	Elgin Zone	3701 (-2081)
735' Shale & Red Bed	Elgin Sand	3726 (-2106)
1034' Red Bed	Heebner	3926 (-2306)
1238' Shale & Red Bed	Lansing	4102 (-2482)
1268' Anhydrite	Stark Shale	4533 (-2913)
1300' Shale	Mississippi	4698 (-3078)
1798' Shale & Shells	RTD	4755 (-3135)
2250' Shale & Lime		
2695' Lime & Shale		
3645' Shale & Lime		
3865' Shale & Lime		
4050' Lime & Shale		
4755' Lime		
4755' <u>Rotary Total Depth</u>		

We hereby certify this to be a correct and accurate log of the above described well as shown on the daily drilling reports.

IMPERIAL OIL COMPANY
Robert L. Williams, Jr.
Robert L. Williams, Jr.

Subscribed and sworn to before me this 7th day of January 1971.

Mary J. Brown
Mary J. Brown, Notary Public

My Commission Expires:
March 3, 1974