

DRILLER'S LOG

Imperial Oil of Kansas, Inc.
780 Fourth National Bldg.
Wichita 2, Kansas

Goff No. 4
NW SW NW Sec. 4-8S-24W
Graham County, Kansas

Total Depth: 3845'

Elevation: 2363' RB
Production:

Commenced: 1-30-59 Completed: 2-9-59

Contractor: Imperial Oil of Kansas, Inc.
Wichita 2, Kansas

Casing Record: Set 8-5/8" Surface Pipe at 227' with 165 sacks cement.
Set 5-1/2" Production Pipe at 3845' with 125 sacks cement.

Figures indicate bottom of formations:

		<u>TOPS</u>		
Surface Clay & Sand	227'			
Shale & Shells	850'	Anhydrite	2010'	(/ 353)
Shale & Sand	1400'	Heebner	3582'	(-1219)
Shale - Shells & Sand	2010'	Toronto	3605'	(-1242)
Anhydrite	2045'	Lansing	3617'	(-1254)
Shale & Shells	2330'	Rotary Total Depth	3845'	(-1482)
Shale & Lime	3610'			
Lime	3845'			
Total Depth	3845'			

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 OF KANSAS, INC.

By: *Ray C. Bacon*
Vice-President

RECEIVED
STATE CORPORATION COMMISSION

Subscribed and sworn to before me this 6th day of March, 1959.

My Commission Expires:

MAY 25 1988

July 7, 1962

5-25-1988
CONSERVATION DIVISION
Wichita, Kansas

Mona L. Leticia
Notary Public