

DRILLER'S LOG

Imperial Oil Company
780 Fourth National Bldg.
Wichita, Kansas

#1 Stueckemann
C NE SE Sec. 14-23S-19W
Edwards County, Kansas

Total Depth: 4547 ft.

Elevation: 2236 K.B.

Commenced: August 7, 1969

Completed: August 20, 1969

Contractor: Imperial Oil Co., Rig #2

Casing Record: Set 8 5/8" surface casing at 313 ft. with 185 sacks cement.

Figures indicate bottom of formations:

	<u>Electric Log Tops:</u>	
375' Sand-Shale	Anhydrite	1348 (≠ 888)
705' Red Bed-shale	Base Anhydrite	1371 (≠ 865)
712' False Anhydrite	Heebner	3856 (-1620)
898' Dakota Sand	Toronto	3874 (-1638)
1610' Shale	Douglas Shale	3886 (-1650)
1370' Anhydrite	Brown Lime	3957 (-1721)
1900' Shale	Lansing	3967 (-1731)
2280' Shale-lime	Base Kansas City	4273 (-2037)
2435' Lime-shale	Marmaton	4297 (-2061)
2637' Shale-lime	Cherokee Sand	4487 (-2251)
2897' Lime-shale	Mississippi	4525 (-2289)
3030' Shale-lime	Total Depth	4539 (-2303)
3180' Lime-shale		
3505' Shale-lime		
3878' Lime-shale		
4135' Lime		
4492' Lime-shale		
4499' Lime-sand		
4547' Lime		
4547' <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

By

Charley V. Shank

Subscribed and sworn to before me this 26th day of August, 1969.

Mary J. Brown
Mary J. Brown, Notary Public

My Commission Expires:
March 3, 1970