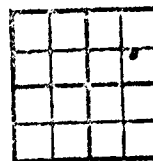


NOV 10 1972

API # 15-165-20,400

KANSAS



4-16-17W

DRILLERS LOG

D.R. Roth 4-D

CASING RECORD: COMPANY: Clinton Oil Company DESCRIPTION:
8 5/8" @ 1136' CONTRACTOR: Red Tiger Drilling Co. NW SE NE
w/450 sx cement. COMMENCED: July 2, 1971 4-16S-17W
5 1/2" @ 3554' COMPLETED: July 14, 1971 Rush County,
w/200 sx cement Kansas
TOTAL DEPTH: 3555' ELEVATION: 1979 KB

P 117 BOPD N/W

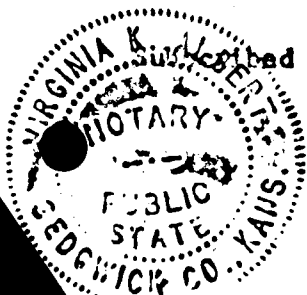
<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Surface Soil & Shale	0	385	
Shale	385	520	
Sand	520	770	
Shale	770	788	
Red Bed & Shale	788	1123	
Anhydrite	1123	1161	
Shale & Shells	1161	1745	
Shale	1745	1809	
Lime	1809	2400	
Shale & Lime	2400	3002	
Lime	3002	3555	

I certify that this is a true and correct copy of the above log to the best of my knowledge.

LOG TOPS
Heebner 3228
Toronto 3246
Lansing 3276
BKC 3504
Arb 3542
LTD 3555

RED TIGER DRILLING COMPANY

Jim Farrica
Jim Farrica



Subscribed and sworn to before me this 19th day of July, 1971.

Virginia K. Albert
Notary Public

My Commission Expires:

July 23, 1974