

34-16-21W

KANSAS GEOLOGICAL SOCIETY
 KANSAS WELL LOG BUREAU - KANSAS WELL SAMPLE BUREAU
 KANSAS GEOLOGICAL SOCIETY BUILDING
 508 EAST MURDOCK - WICHITA, KANSAS

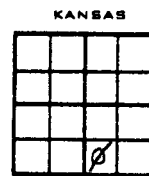
COMPANY CHIEF DRILLING, INC.

SEC. 34 T. 16 R. 21W
 150'W C SW SE

FARM Elmore "H" NO. 1

TOTAL DEPTH 4152
 COMM. 11-29-67 COMP. 12-9-67
 SHOT OR TREATED
 CONTRACTOR Chief Drlg.
 ISSUED 2-3-68

COUNTY Ness



CASING
 20 10
 15 8 5/8" @ 281' w/175 sx
 12 6
 13 5 1/2" @ 1518' w/450 sx

ELEVATION 2207' KB

PRODUCTION SWDW-RATE OK
 CHER 896-1156

FIGURES INDICATE BOTTOM OF FORMATIONS

Casing Record: 8-5/8" @ 281' with 175 sacks Common Quickset cement.
 5-1/2" @ 1518' with 450 sacks cement.

FORMATION	FROM	TO	ELEVATION
Surface Clay	0	80	2202 Gr.
Shale & Sand Streaks	80	281	2204 D.F.
Shale, Shells, Sand Streaks, Red Bed	281	820	2207 K.B.
Sand & Shale	820	1491	
Anhydrite	1491	1525	
Shale, Shells & Sand	1525	1995	
Shale & Shells	1995	2150	
Shale w/Lime Streaks	2150	2310	
Lime	2310	2600	
Lime & Shale	2600	3040	
Shale & Shaley Sand	3040	3120	
Lime & Shale	3120	3926	
Shale & Cherty Lime	3920	3996	
Chert & Lime	3996	4064	
Shale & Lime	4064	4088	
Sand & Shale	4088	4152	
Total Depth	4152		

FORMATION TOPS - "E" LOG

Anhydrite	1483 + 724
Heebner	3590 - 1383
Toronto	3610 - 1403
Lansing-Kansas City	3630 - 1423
Base Kansas City	3926 - 1719
Pawnee	3996 - 1789
Ft. Scott	4078 - 1871
Cherokee Shale	4088 - 1881
1st Sand	4094 - 1887
2nd Sand	4114 - 1907
3rd Sand	4140 - 1933
Total Depth	4149 - 1942

STATE OF KANSAS, COUNTY OF BARTON) SS

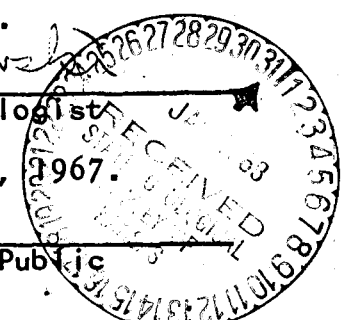
I hereby certify that the above is a true and correct copy of the Driller's Log of the well drilled 150' W of SW SE of Section 34-16S-21W, Ness County, Kansas, to the best of my knowledge and belief.

CHIEF DRILLING CO., INC.

Thomas Wesselowski
 Thomas Wesselowski, Geologist

Subscribed and sworn to before me this 12th day of December, 1967.

Carmen R. Cook
 Carmen R. Cook, Notary Public



My commission expires: Dec. 12, 1970.