

27-16-21W

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

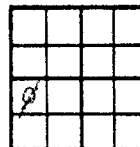
COMPANY **CHIEF DRILLING, INC.**

SEC. 27 T. 16 R. 21W
 LOC. C NW SW

FARM **Stephens** NO. 1

TOTAL DEPTH **4235**
 COMM. **12-11-67** COMP. **12-21-67**
 SHOT OR TREATED
 CONTRACTOR **Chief Drlg.**
 ISSUED **2-3-68**

COUNTY **Ness**
 KANSAS



CASING
 20 10
 15 8 5/8" @ 269' w/175 sx
 12 6
 13 5

ELEVATION **2261' KB**

PRODUCTION **DRY/MISS**

FIGURES INDICATE BOTTOM OF FORMATIONS

FORMATION	FROM	TO
Surface Clay	0	40
Shale & Sand Streaks	40	268
Shale, Sand Streaks & Red Bed	268	645
Shale & Shells	645	980
Sand	980	1220
Shale & Shells	1220	1300
Shale, Shells & Sand Streaks	1300	1549
Anhydrite	1549	1587
Shale & Shells	1587	2170
Shale & Lime	2170	2660
Lime	2660	2761
Lime & Shale	2761	3712
Lime	3712	3970
Shale & Cherty Lime	3970	4040
Cherty Lime	4040	4112
Shale & Lime	4112	4138
Sand & Shale	4138	4203
Chert	4203	4235
Total Depth	4235	

ELEVATION
 2256 Gr.
 2258 D.F.
 2261 K.B.

FORMATION TOPS

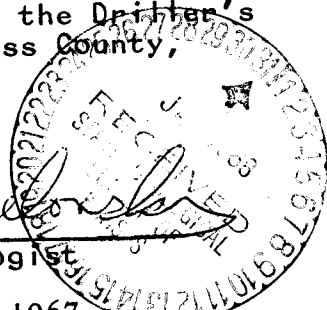
	SAMPLE	LOG
	1549	
Heebner	3645	3643 -1382
Toronto	3665	3664 -1403
Lansing	3686	3685 -1424
Base Kansas City	3971	3970 -1709
Pawnee	4039	4040 -1779
Ft. Scott	4131	4131 -1870
Cherokee Shale	4136	4138 -1877
Cherokee Sand	4139	4140 -1879
Mississippi	4202	4203 -1942
Total Depth	4235	4234 -1973

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 in the C NW SW Section 27-16S-21W, Ness County, Kansas, to the best of my knowledge and belief.

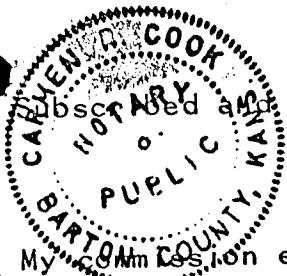
CHIEF DRILLING CO., INC.

Thomas Wesselowski
 Thomas Wesselowski, Geologist



sworn to before me this 21st day of December, 1967.

Carmen R. Cook
 Carmen R. Cook, Notary Public



My Commission expires: Dec. 12, 1970