

ROTARY DRILLERS LOG

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OPERATOR: Clarke Corporation DRILLING COMMENCED: July 29, 1978  
 107 West Fowler  
 Medicine Lodge, Kansas 67104

CONTRACTOR: Graves Drilling Co., Inc. DRILLING COMPLETED: August 5, 1978  
 910 Union Center  
 Wichita, Kansas 67202

CASING RECORD: 5 Jts. 225' of used 8-5/8" LOCATION: Tedrow No. 5  
 cemented with 175 sacks C N/2 NW NW  
 Section 33-32S-12W  
 Barber County, Kansas  
 114 Jts. 4563' of new 4 1/2"  
 cemented with 75 sacks

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0	-	450	Red Bed
450	-	2702	Shale and Lime
2702	-	3030	Shale
3030	-	3872	Shale and Lime
3872	-	4337	Lime and Shale
4337	-	4460	Shale and Lime
4460	-	4565	Shale and Chert
		4565	Rotary Total Depth

I hereby certify the foregoing statements to be true and correct to the best of my knowledge.

GRAVES DRILLING CO., INC.

By *John Graves* President

STATE OF KANSAS  
AUG 17 1978  
COMPTROLLER GENERAL  
TOPEKA, KANSAS