

DRILLERS LOG

State Geological Survey  
WICHITA, BRANCH

James W. Craig  
Elrod-C  
C N½ SW NE  
Section 4, T32S, R5E  
Cowley County, Kansas

Elevation: 1291.5  
Surface Casing: 755'  
of 8 5/8"

Commenced: 7-16-79  
Completed: 7-19-79

<u>FORMATION</u>	<u>DEPTH</u>	
Surface Hole		755
Shale - Lime	755 -	2412
Shale - Lime	2412 -	2532
Shale - Lime	2532 -	2670
Shale - Lime	2670 -	2776
Lime & Shale	2776 -	2900
Lime & Shale	2900 -	3008
Shale & Lime	3008 -	3058
Shale - Lime	3058 -	3158
Lime	3158 -	3160 RTD

I do hereby certify that the foregoing statements are true and correct to the best of my knowledge and belief.

PIONEER DRILLING CORPORATION

*Nancy D. Meyer*  
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State of Colorado )  
                          ) ss.  
County of Denver )

Subscribed to and sworn before me this 25th day of July, 1979.

My Commission Expires: July 1, 1980

*Gene J. Thompson*  
\_\_\_\_\_  
Notary Public

RECEIVED  
STATE CORPORATION COMMISSION

JUL 27 1979

CONSERVATION DIVISION  
DENVER, COLORADO