

20-16-25W

State Geological Survey  
WICHITA, BRANCH

DRILLERS' LOG

PETROLEUM, INC.  
No. 4 Michaelis 'B'  
C SW NE, Sec. 20-16-25W  
Ness County, Kansas

Elev: 2594 K.B.

Commenced: 2-13-76  
Completed: 2-24-76

Surface Casing: 339' of  
8-5/8" cemented w/200 sx  
common cement, 2% Gel, 3%  
cc. 2-13-76

| <u>FORMATION</u> | <u>DEPTH</u>    |
|------------------|-----------------|
| Surface Hole     | 0 - 346         |
| Shale            | 346 - 825       |
| Sand             | 825 - 1075      |
| Sand & Shale     | 1075 - 1360     |
| Blaine Anhydrite | 1360 - 1373     |
| Sand & Shale     | 1373 - 1785     |
| Shale & Red Bed  | 1785 - 1969     |
| Anhydrite        | 1969 - 2007     |
| Shale            | 2007 - 2245     |
| Shale & Lime     | 2245 - 2845     |
| Lime & Shale     | 2845 - 3825     |
| Lime             | 3825 - 4573 RTD |

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

D N B DRILLING, INC.

*James L. Donelson*  
JAMES L. DONELSON



STATE OF KANSAS: ss:

Subscribed and sworn to before me this 26th day of February 1976.

*Ella Priess*  
Ella Priess, Notary Public

*Ella Priess*  
STATE NOTARY PUBLIC  
Sedgwick County, Kansas  
My Com. Expires Aug. 25, 1976