

DRILLERS' LOG

GRAVES DRILLING CO., INC.  
No. 1 Unrein  
SW NW SE, Sec. 10-16S-21W  
Ness County, Kansas

Elevation: 2309 K.B.

Commenced: 12-2-74  
Completed: 12-10-74

Surface Casing: 274' of  
8-5/8" cemented w/180 sx  
common cement, 28 Gel, 38 cc.  
12-3-74

FORMATION

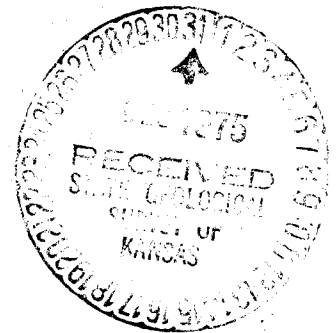
DEPTH

Surface Hole	0 - 282
Shale & Sand	282 - 855
Shale	855 - 1010
Sand	1010 - 1260
Shale	1260 - 1600
Anhydrite	1600 - 1625
Shale	1625 - 2050
Lime & Shale	2050 - 3035
Shale & Lime	3035 - 3200
Lime & Shale	3200 - 3595
Shale & Lime	3595 - 3715
Lime	3715 - 4145
Sand & Lime	4145 - 4163
Lime & Sand	4163 - 4205
Lime	4205 - 4225 T.D.

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

D NB DRILLING, INC.

*James L. Donelson*  
JAMES L. DONELSON



STATE OF KANSAS: ss:

Subscribed and sworn to before me, the undersigned a Notary Public in and for said state, this 16th day of December, 1974.

My Commission Expires:  
August 25, 1976

*Ella Priess*  
Ella Priess, Notary Public

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