

20 1-17W

EMPHASIS OIL OPERATIONS

P. O. Box 506

Russell, Kansas 67665-0506

DRILLERS LOG

OPERATOR: Columbia Petroleum, Inc.
Suite 8, Parkade Plaza
Columbia, MO 65201

CONTRACTOR: Emphasis Oil Operations
P. O. Box 506
Russell, KS 67665-0506

LEASE: Kriley 'E' WELL: #4

LOCATION: ~~NW~~ NE SW
Section 20-7S-17W
Rooks County, Kansas

Total Depth: 3299'

Elevation:

Commenced: 3-13-83

Completed: 3-24-83

Casing: 8-5/8" @ 1194' with 425 sks cement
5-1/2" @ 3298' with 175 sks cement

Status: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

Top Soil & Sand	40'	Shale & Sand	2169'
Sand & Shale	1148'	Shale	2328'
Shale	1186'	Shale & Lime	2685'
Anhydrite	1219'	Lime (R.T.D.)	3299'
Shale	1630'		

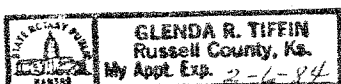
STATE OF KANSAS)
) ss:
COUNTY OF RUSSELL)

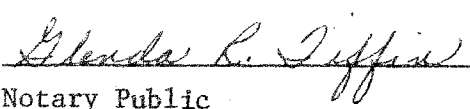
Joe K. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Joe K. Branum

Subscribed and sworn to before me this 29th day of March, 1983.

My Commission Expires: February 6, 1984.




Notary Public