

20-7-11W

EMPHASIS OIL OPERATIONS

P. O. Box 506

Russell, Kansas 67665

DRILLERS LOG

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

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

LEASE: Kriley 'E' WELL: #2

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

Total Depth: 3250'

Elevation:

Commenced: 2-3-82

Completed: 2-20-82

Casing: 8-5/8" @ 1185' with 400 sks cement  
5-1/2" @ 3250' with 150 sks cement

Status: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

Top soil & sand	41'	Sand & shale	1556'
Shale	275'	Shale	1990'
Sand & shale	910'	Sand & shale	2240'
Shale	1177'	Lime & shale	2879'
Anhydrite	1500'	Lime (R.T.D.)	3250'

STATE OF KANSAS )

ss:

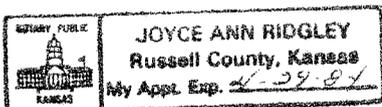
COUNTY OF RUSSELL )

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*  
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Joe K. Branum

Subscribed and sworn to before me this 1st day of March, 1982.

My Commission Expires: April 29, 1984.



*Joyce Ann Ridgley*  
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Notary Public