

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, Kansas 67665

LEASE: Kriley 'F' WELL: #3

LOCATION: ~~SE NE NW~~ <sup>SWSW NE</sup>  
Section 20-7S-17W  
Rooks County, Kansas

Total Depth: 3292'

Elevation:

Commenced: 1-26-82

Completed: 2-2-82

Casing: 8-5/8" @ 1144' with 425 sks cement  
5-1/2" @ 3290' with 150 sks cement

Status: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

Top soil & sand	30'	Shale & lime	1655'
Blue shale	385'	Shale	3140'
Sand & shale	540'	Shale & lime	3237'
Shale	1132'	Shale (R.T.D.)	3929'
Anhydrite	1181'		

STATE OF KANSAS )

ss:

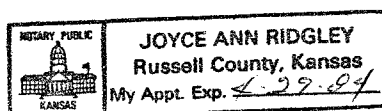
COUNTY OF RUSSELL )

I, Joe K. Branum, of Emphasis Oil Operations, state that the above and foregoing is a true and correct log of the above captioned well.

Joe K. Branum  
Joe K. Branum

Subscribed and sworn to before me this 22nd day of February, 1982.

My Commission Expires: April 29, 1984.



Joyce Ann Ridgley  
Notary Public