

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: #1

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

(DRL-DS
11/201

Total Depth: 3281'

Elevation:

Commenced: 12-19-81

Completed: 1-6-82

Casing: 8-5/8" @ 757' with 325 sks cement
5-1/2" @ 3280' with 600 sks cement

Status: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

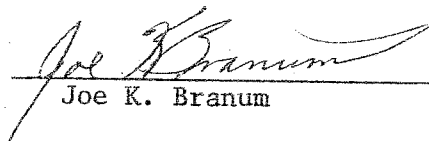
Top soil & sand	40'	Shale	1151'
Shale	226'	Anhydrite	1162'
Shale & pyrite	587'	Shale	2843'
Shale	617'	Shale & lime	3257'
Shale & lime	1134'	Lime (R.T.D.)	3281'

STATE OF KANSAS)

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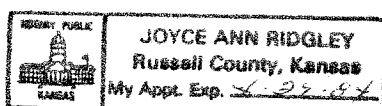
COUNTY OF RUSSELL)

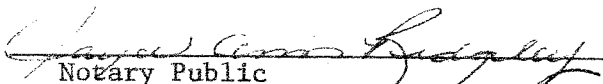
I, Joe K. Branum, of Emphasis Oil Operations, state that the above and foregoing is a true and correct log of the above captioned well.


Joe K. Branum

Subscribed and sworn to before me this 12th day of January, 1982.

My Commission Expires: April 29, 1984.




Notary Public