

SIDE TWO

Operator Name Larson Operating Company..... Lease Name Randel..... Well # 1.....Sec. 27..... Twp. 18S Rge. 20..... ☐ East
☒ West County Rush.....

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (one) ☒ Yes ☐ No
 Samples Sent to Geological Survey ☐ Yes ☒ No
 Cores Taken ☐ Yes ☒ No

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	1351 (+759)	1387
Heebner	3598 (-1488)	3604
Lansing	3643 (-1533)	--
Base Kansas City	3938 (-1828)	--
Pawnee	4006 (-1896)	nc
Fort Scott LS	4097 (-1987)	4103
Cherokee Shale	4103 (-1993)	4108
Cherokee Sand	4108 (-1998)	nc
TD	4190 (-2080)	

DST No. 1 - 4070-4120-10/20/0/0 open flow 51/86 strong blow, SIP 521 (no second flow period). Rec 120' oil cut watery mud, 155' oil cut muddy water, HP 1986/1970, Tmax 112°F.

CASING RECORD ☐ New ☒ Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
surface pipe	12-1/4	8-5/8	24	230	60/40poz	140	2%gel, 3%CC
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
TUBING RECORD				Liner Run ☐ Yes ☐ No			
Date of First Production	Producing Method						
N/A	☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....						
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented
☐ Sold
☐ Used on Lease

☐ Open Hole ☐ Perforation
☐ Other (Specify)

☐ Dually Completed
☐ Coning/ing

15-165-21446-0000
EMPHASIS OIL OPERATIONS

P. O. BOX 506
RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: Larson Operating Company
P. O. Box 553
Great Bend, Kansas 67530

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Randel

WELL #1

LOCATION: NW SE SE
Section 27-18S-20W
Rush County, Kansas

LOGGERS TOTAL DEPTH: 4190'

ROTARY TOTAL DEPTH: 4190'

COMMENCED: 12/10/88

CASING: 8-5/8" @ 230' w/140 sks cement

ELEVATION: 2110' K.B.

COMPLETED: 12/18/88

STATUS: Dry Hole

RECEIVED
STATE CORPORATION COMMISSION

MAY 19 1989
5-19-89

CONSERVATION DIVISION
Wichita, Kansas

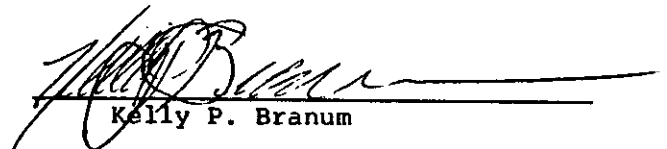
DEPTHS & FORMATIONS

(All measurements from K.B.)

Top Soil, Sand & Shale	233'	Shale	3000'
Blue Shale	766'	Shale & Lime Stks.	3625'
Cedar Hills Sand	1013'	Lime	4075'
Red Bed	1352'	Sand	4100'
Anhydrite	1391'	R.T.D.	4190'
Red Bed	1700'		

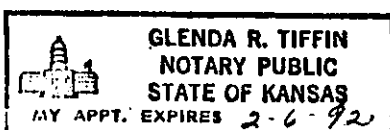
STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

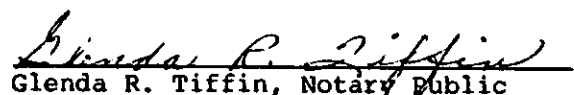
Kelly P. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kelly P. Branum

Subscribed and sworn to before me on December 20, 1988.

My commission expires: February 6, 1992.




Glenda R. Tiffin, Notary Public

COPY