

5-7-19W *and*

Jacob E. Lemmons - Geologist - Hu 3-2527 - 1135 Main - Russell, Kansas

Bennett & Roberts Oil Opr.  
#2 Dryden, 1/2 SE SE  
Sec. 5-7-19W.  
Rooks County, Kansas

The following is a geological report and drilling time log on the #2 Dryden, Riffe Pool, Rooks County, Kansas.

All formation tops were determined from sample analysis and the log interpretations with all measurements, taken from the rotary bushing.

Well was under geological supervision from 3109' to rotary total depth.

Operator: Bennett & Roberts Oil Opr.  
Russell, Kansas  
Contractor: Bennett & Roberts Drilling, Inc.  
Russell, Kansas  
Commenced: Sept. 1, 1959  
Completed: Sept. 9, 1959  
Casing: 190' 8 5/8": 3479 1/2' 5 1/2"  
Samples: 10' intervals from 2897'-3100'.  
5' intervals from 3100'-total depth  
Drilling Time: 1' interval 2897' to total depth  
Elevation: Derrick floor 2007'  
Rotary Bushing 2010'  
Tool pusher: Bud Roberts

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Electric Log: To be run through casing before cable tool testing.

Note: Pipe was strapped before it was laid down and all tops must be moved up the hole 3' (except anhydrite). Corrections have been made in tops given below. All other points have also been corrected.

Formation Tops:

Anhydrite	1530	(480)
Topeka	2964	(-954)
Heebner	3163	(-1153)
Toronto	3187	(-1177)
Lansing	3204	(-1194)
Base/Kansas City	3409	(-1399)
Arbuckle	3476	(-1466)
Total Depth	3490	(-1480)

Shows of Oil:

3130-44' Lower Topeka--White, crystalline, granular, fossiliferous limestone with fossiliferous porosity. There was free oil and a good odor in the wet samples.

DST #1--3134-3169' Tool open 1 hr. with fair flow, recovered 75' of slightly-medium oil-cut mud. Shut in 20". BHP 790#, No flow pressures. A check of the electric log of the corresponding zone in the #1 Dryden indicates favorable porosity. Before abandonment of the hole this zone should be tested further.

3206-15' Lansing--White, fossiliferous, oolitic limestone with vugular and inter-crystalline porosity. There was a trace of free oil and a fair odor in the wet samples.

DST #2--3195-3217' Tool open 1 hr. with a fair blow, recovered 110' of very slightly oil-cut watery mud. No pressures were obtained due to failure of the recording instrument. This zone needs no additional testing.

3247-52' White, oolitic limestone with good spotted staining and inter-oolitic porosity. There was a slight odor in the wet samples.

3261-61' White, oolitic limestone with a trace of staining and inter porosity. This is the producing zone in the #1 Dryden and #3 Desmarreau.

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DST #3--3237-3267' Tool open 1 hr. with a weak, intermittent blow for only 10", shut in 20", recovered 12' slightly oil-cut mud. No pressures. Unless the electric log should give good indications otherwise, it is suggested that no further testing should be necessary in the zones covered by DST #3

3278-82' White, finely crystalline-slightly chalky, fossiliferous, oolitic limestone with a trace of staining and saturation.

3291-94' White, finely crystalline, fossiliferous limestone with spotted staining and saturation.

3302-07' White, crystalline, oolitic limestone with a trace of staining and a trace of free oil and poor porosity.

DST #4--3257-3317' Tool open one hour with a good blow; recovered 260' of watery mud. BHP 990# in 20". IFP 90; FFP 255. The zones covered by DST #4 have already been adequately tested.

3376-87' Off-white, finely crystalline limestone with inter-crystalline porosity and spotted staining.

DST #5--3158-3387' Tool open 1 hr. with fair blow, recovered 50' gas, 20' clean oil, 50' heavily oil-cut mud. The tool was shut in 20", but no pressures were recorded. In view of the recovery it might be wise to further test this zone before abandonment, in case the recording instrument failed or that there could be have been some other factor causing a lack of pressures to be recorded.

3480-90' Arbuckle--Tan, medium crystalline, glauconitic, sandy dolomite with vugular porosity. There was good free oil and a good odor in the wet samples.

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DST #6--3480-90' Tool open 1 hr. with a weak blow, recovered 5' of clean oil, 50' of muddy oil. BHP 1010# in 20". There were no flow pressures. 5½" casing was set at 3479½' and the well will be further tested with cable tools.

Structurally, the #2 Dryden was only 2' lower on the top of the Lansing than the #1 Dryden, and 1' lower on the Arbuckle. Lack of porosity and the presence of a fair amount of chalky limestones probably accounts for the poor Drillstem test recoveries in the Lansing-Kansas City section.

Yours respectfully,

*Jacob E. Lemmons*  
Jacob E. Lemmons



#2 Dryden

DRILLING TIME LOG

<u>Depth</u>	<u>Time</u>										<u>Remarks</u>
60	9	8	8	8	8	6	4	6	5	5	
70	5	6	6	7	8	7	7	7	7	9	
80	8	7	7	8	6	6	5	6	8	9	DST #5
90	8	7	5	8	8	7	6	4	3	3	Vis. 45 Wt. 10.4
3400	4	5	7	7	4	5	6	4	4	3	
3400-10	3	4	5	5	5	5	4	7	6	4	
20	4	5	3	4	6	5	5	5	4	3	Vis. 43 Wt. 10.5
30	3	3	3	3	3	3	3	2	3	2	
40	3	3	3	3	3	3	4	5	3	3	Vis. 47 Wt. 10.7
50	3	2	2	1	3	3	4	3	5	5	
60	5	5	6	5	5	5	4	4	5	4	
70*	4	4	4	4	3	4	4	5	3	4	
80	5	4	5	4	4	4	5	5	5	5	
90	4	3	4	3	6	4	4	3	3	3	Circ.

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