

5-7-19W

Am 5-1606 TEXAS Co. MR. BUSBY
" " " MR. LOESDON-OR-Mu 2-78.

Jacob E. Lemons - Geologist - Hu 3-2627 - 1135 Main - Russell, Ks.

5480'
3445.94'
3412.21'
3378.47'
3344.71'
3310.92'

S.S. 34.06
#2 - 33.73
#3 - 33.74
#4 - 33.76
#5 - 33.79

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

ZERO 6'10" ABH

The following is a geological report and drilling time log on the #1 Dryden, Riffe Pool, Rooks County, Kansas.

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

Well was under geological supervision from 3120' to rotary total depth.

RECEIVED
STATE CORPORATION COMMISSION
NOV 28 1988

NOV 29 1988
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

Operator: Conservation Division
Wichita, Kansas
Bennett & Roberts Oil Opr.
Russell, Kansas
Contractor: Bennett & Roberts Drilling, Inc.
Russell, Kansas

Completed: Rotary Drilling--June 16, 1959

Casing: 189' 85/8", 3480' 5 1/2".

Samples: 10' interval from 2900-3100'
5' interval from 3100 to total depth.

Drilling time: 1' interval from 2900' to total depth.

Tool Pusher: Bud Roberts

Elevation: Derrick Floor 2011'
Rotary Bushing 2014'

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

Formation Tops:

Topeka	2969	(-951)
Heebner	3165	(-1151)
Toronto	3194	(-1180)
Lansing	3205	(-1191)
B/Kansas City	3413	(-1399)
Arbuckle	3479	(-1465)
Total Depth	- 3484	(-1470)

5-7-19W

#1 Dryden
Page 2

Shows of Oil:

3140-58' Lower Topeka--Cream, finely crystalline to coarsely sucrose, fossiliferous limestone with good inter-crystalline porosity. Good odor, trace free oil, good spotted stain and saturation. History of Topeka production is not good but possibly this zone should be tested further before abandonment of the well.

3194-3200' Toronto--White, finely crystalline, fossiliferous limestone with white, fossiliferous chert. Good spotted stain, trace of free oil and odor. Should be further tested before abandonment of the well.

3208-14 Lansing--coarsely crystalline, drusy; calcitic limestone. Very good odor, free oil, very good porosity and saturation.

3219-25' White, dense-finely crystalline limestone with a little vugular porosity, trace of free oil and odor.

RECEIVED
STATE CORPORATION COMMISSION
NOV 28 1988
CONSERVATION DIVISION
Wichita, Kansas

DST #1--3202-3228' Open one hour, good blow, diminishing some at last. Recovered 120' slightly oil-cut mud and water. 540' slightly oil-cut water. IFP 245; FFP 480; BHP 705 in 20". Two zones were included in this test. It is possible that the electric log may indicate a chance to perforate and avoid water.

3247-53' White, crystalline, slightly vugular, calcitic limestone with a little spotted staining, but no odor or free oil in the wet samples.

3262-66' Cream, oolitic, slightly vugular limestone with a little spotted staining some of which appeared to be in small fractures. There was no odor or free oil in the wet samples.

DST #2--3236-68' Open one hour with a good blow; recovered 1272' gas, 420' clean oil, 120' muddy oil. IFP 205; FFP 365; BHP 515 in 20". Best Lansing-Kansas City show--to be perforated.

3279-84' Off-white, dense to crystalline limestone with a little spotted staining and saturation, and poor porosity. This zone was not tested, but if the electric log is favorable, then this zone should be perforated before abandonment of the well.

#1 Dryden
Page 3

- 3391-90' White, crystalline, fossiliferous limestone with spotted staining, porosity, and saturation; odor in the wet samples.
- 3392-09' White, crystalline, fossiliferous, slightly vugular limestone, with spotted staining; odor in the wet samples.

DST #3--3286-3305' Open 1 hr. with a weak to intermittent blow, recovered 37' slightly oil-cut mud. IFP 80; FFP 90; BHP 925 in 20". If electric log calculations are favorable, then this zone should be tested before abandonment of the well.

- 3340-43' Cream, crystalline limestone with light spotted staining, trace of porosity, and no odor. Not worth testing unless electric log indicates otherwise.

- 3361-77' White, dense to crystalline limestone with trace of spotted staining, and some spotted vugular porosity.

RECEIVED 95
STATE CORPORATION COMMISSION

NOV 28 1988

CONSERVATION DIVISION
Wichita, Kansas

- White, dense to fine, crystalline limestone with a trace of vugular porosity and staining.

DST #4--3355-96' Open 1 hour with a weak intermittent blow, recovered 5' of clean oil and 15' of oil-cut mud. IFP 120; FFP 130; BHP 305 in 20". This zone should be perforated for further testing.

- 3406-10' White, dense to finely crystalline limestone, with a trace of staining, saturation, and a trace of vugular porosity. If the electric log indicates porosity, then this zone should be perforated and tested.

- 3479-84' Arbuckle--Buff, medium crystalline dolomite with streaks of coarsely crystalline, vugular dolomite. There was some odor and free oil in the wet samples.

DST #5--⁴²3380-⁴²3384' Open 1 hr. with a very weak intermittent blow, recovered 8' of clean oil, 7' of oil-cut mud. IFP and FFP 55; BHP 1050 in 20".

Structure: Structurally, the #1 Dryden was flat on the Lansing with the nearest well to the east, the #3 Riffe. Solid Arbuckle was not called in the #3 Riffe, however, weathered Arbuckle

5-7-1961

#1 Dryden
Page 4

was picked at 3474 (-1476). This was 9' higher than solid Arbuckle in the #1 Dryden. On the whole, the #1 Dryden is in a very favorable structural position relative to other wells in the Riffe Pool.

Pipe was set 4' above total depth, or at 3450', in order to test the Arbuckle dolomite.

Yours respectfully,

Jacob E. Lemmons
Jacob E. Lemmons

JEL/lwl

RECEIVED
STATE CORPORATION COMMISSION

NOV 28 1961

CONSERVATION DIVISION
Wichita, Kansas

5-7-19W

#1 Dryden

DRILLING TIME LOG

<u>Depth</u>	<u>Time</u>									<u>Remarks</u>		
2901-10	1	1	1	2	1	2	2	3	3	3		
20	3	4	4	3	4	2	2	2	2	3		
30	2	3	3	3	3	2	2	3	2	2		
40	2	3	2	2	3	2	3	4	3	3		
50	3	4	4	2	2	2	2	2	2	3		
60	2	2	3	4	3	5	3	3	3	3	Clean shale pit--Mixing Mud	
70	2	3	3	4	4	4	5	4	4	4		
80	4	4	5	4	5	4	4	5	4	4		
90	5	4	3	3	3	4	3	3	4	3	Finish Mud	
3000	4	5	3	2	2	2	1	3	2	4		
3001-10	5	6	5	6	4	4	3	3	4	4		
20	3	4	4	4	3	3	1	3	4	3	Vis. 35 Wt. 10.2	
30	3	3	5	6	7	6	6	6	3	3		
40	3	3	4	5	6	6	6	5	5	5		
50	5	5	3	4	3	5	4	4	3	4		
60	4	4	5	5	5	5	5	5	5	4		
70	4	4	4	3	3	3	2	3	3	3	Vis. 34 Wt. 10.2 Mix Mud	
80	3	4	6	6	5	6	6	6	4	5		
90	7	3	3	4	5	3	3	4	3	3		
3100	4	7	8	8	8	7	7	6	6	8		
3101-10	8	9	8	8	8	7	7	7	10	9	Vis. 36 Wt. 10.3	
20	8	7	6	3	2	3	4	4	5	6	Acid bottle	
30	6	6	7	13	13	16	15	16	13	7	13 7 Trip--Strap Pipe & Rig OWV	
40	6	4	5	5	3	2	2	1	2	4	Strap--314C-45 Board--3142-12	
50	4	5	Correction				3	3				6' error pipe measurement--22 40'
60	5	5	4	4	4	4	4	4	6	5		
70	5	4	5	4	4	3	2	2	6	5		
80	5	5	6	6	4	3	4	4	3	5		
90	5	5	5	6	6	5	5	5	6	5		
3200	4	3	3	3	6	5	6	7	7	6		
3201-10	4	6	5	5	4	6	6	5	3	2	Vis. 39 NOV 28 1988	
20	2	3	1	1	6	7	7	6	8	6		
30	6	6	5	6	6	7	5	7	4	5	Cir. 1 hr. DST #1	
40	7	7	6	7	6	6	6	4	3	3	CONSERVATION DIVISION Wichita, Kansas	
50	3	4	5	6	5	5	5	4	3	2		
60	2	4	4	6	5	6	10	7	5	5		
70	5	5	4	4	4	4	6	6	6	7	DST #2 Cir. 1 1/2 hrs.	
80	7	5	7	6	7	7	5	5	10	6		
90	6	5	6	7	8	8	8	7	6	10		
3300	6	8	6	3	2	1	2	4	4	8		
3301-10	10	11	4	2	2	3	2	3	3	4	19' single--DST #3--Cir. 1 hr.	
20	4	5	5	5	4	4	5	5	4	5		
30	5	5	4	4	4	6	3	3	5	3		
40	2	3	3	3	3	3	4	4	3	2		
50	3	3	3	4	5	5	7	7	6	6		

5-~~17~~⁷-19W

#1 Dryden

Drilling Time Log

<u>Depth</u>	<u>Time</u>										<u>Remarks</u>
60	7	6	6	5	5	5	5	5	4	4	
70	4	5	4	5	5	5	5	5	5	5	
80	5	6	7	5	4	5	5	4	4	5	
90	5	6	6	6	6	6	6	6	6	6	
3400	5	4	4	4	4	5	5	5	5	5	DST #4 40' Anchor
3401-10	6	6	6	6	6	7	6	5	6	6	
20	7	8	7	3	4	4	6	5	5	5	
30	3	4	4	4	3	3	2	3	3	3	
40	2	3	4	4	3	3	3	2	4	5	
50	5	6	5	4	4	2	3	4	1	5	
60	5	5	6	6	7	7	5	5	5	4	
70	6	4	4	6	6	5	5	4	4	4	
80	4	3	5	5	6	5	4	5	6	4	
84	4	3	5	4							Circ.

RECEIVED
STATE CORPORATION COMMISSION

NOV 28 1988

CONSERVATION DIVISION
Wichita, Kansas