

5-7-19W *And*

Jacob E. Lemmons - Geologist - Hu 3-2627 -1135 Main - Russell, Kan.

Bennett & Roberts Oil Opr.
#3 Dryden, SW SW SW
Sec. 5-7-19W. Riffe Pool
Rooks County, Kansas

The following is a geological report and drilling time log on the #3 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.

Note: Strapping of the pipe, at the last trip before the geologist arrived at the well, indicated a need for a down-the-hole correction of almost four feet. This correction was never made, and the error was carried throughout the remainder of the well. Therefore, in comparing tops with other wells the four foot correction needs to be made.

Well was under geological supervision from 3110' to rotary total depth.

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

Operator: Bennett & Roberts Oil Opr.
Russell, Kansas
Contractor: Bennett & Roberts Drbg., Inc.
Russell, Kansas

NOV 29 1988

Commenced: April 13, 1960

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Completed: April 22, 1960

Casing: 191' 8 5/8" with 120 Sx NOV 28 1988

Samples: 10' interval 2850 to 2950;
5' interval 2950 to T.D.

Drilling Time: 1' interval from 2850' to T.D. CONSERVATION DIVISION
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Tool Pusher: Jack Haynes

Elevation: 1970' D.F.
1974' K.B.

Electric Log: To be run through casing before cable tool test

Formation Tops:

Toneka	2934	(-960)
Heebner	3130	(-1156)
Toronto	3152	(-1178)
Lansing	3170	(-1196)
Base/Kansas City	3369	(-1395)
Arbuckle	3434	(-1460)
Total Depth	3450	(-1476)

-940

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Shows of Oil:

- 3101-3120 Tonoka--Green, finely crystalline limestone with a coarsely crystalline limestone with a white odor and free oil in the wet samples.
DST #1--3100-3135', open 1 hr. with weak intermittent blow throughout, rec. 50' water-cut mud with trace of oil. IFP 110; FFP 120; BHP 1055 in 20".
- 3152-65 Toronto--White, crystalline limestone, white chert, some vugular porosity and spotted staining.
DST #2--3135-65, open 1 hr. with a weak, steady blow, rec. 10' muddy oil, 60' HOCK, IFP 105; FFP 110; BHP 755 in 20".
- 3173-81 Lansing--White, oolitic, crystalline limestone with a trace of staining and odor.
- 3184-89 Cream, medium crystalline limestone with good porosity, staining and odor.
DST #3--316603190, open 1 hr. with good blow, rec. 450' SW, IFP 105; FFP 345; BHP 855 in 20".
- 3210-14 Cream, crystalline, oolitic and oolitic limestone with spotted staining and a slight odor.
- 3226-30 Cream, crystalline, oolitic limestone with good spotted staining, odor and inter-oolitic porosity.
DST #4--3203-3235, Open 30" with weak blow for only 8", rec. 20' of oil specked mud, IFP 120; FFP 120; BHP 705 in 20".
- 3258-61 Cream, crystalline limestone with odor, free oil and abundant staining and saturation.
- 3266-72 Cream, crystalline limestone with good odor, trace free oil.
DST #5--3255-70 Tool plugged.
DST #5--rerun after deepening hole 15' to 3285. Tested from 3250-85, open 1 hr. with good blow, rec. 70' slightly oil specked mud, 180' watery mud, IFP 140; FFP 250; BHP 960 in 20".
- 3325-34 White, crystalline limestone with spotted staining and saturation, slight odor in wet samples.
- 3343-50 Light buff-white, dense-crystalline limestone with spotted staining.
DST #6--3305050 Open 1 hr. with a weak blow for only 5 1/2", rec. 45' mud with a trace of oil. IFP 160; FFP 180; BHP 265.

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- 3434-44 Arbuckle, white, vugular, coarsely crystalline dolomite with white chert, a slight stain and spotted porosity and a trace of free oil, trace of odor.
- 3447-50 White, sandy, glauconitic dolomite with a good odor and free oil in the wet samples. No DST.

Note: The tool had to be slid to bottom from 7-12' on land all tests due to the accumulation of cuttings in the bottom of the hole. Therefore, all DST results should be accepted with reservations, subject to electric log calculations which may indicate possibilities beyond those shown by the DST result. Possible exception to the above statement would be the test taken in the top of the Lansing where 450' of salt water was recovered.

No test was taken in the Arbuckle as it was considered possible that the zone to be tested would be sealed off by cuttings.

Structurally, the #3 dryden was flat with the Sierra well diagonally to the southwest (after allowing for the aforementioned correction). The subject well was one foot higher than the #2 Dryden on top of the Arbuckle.

Possibility of production from the Toronto should be good in view of results in the aforementioned Sierra well and the results from just completed perforating and acidizing of the Toronto in the #2 Dryden. Previously, no DST's were taken in the Toronto, therefore, comparison of DST results is impossible.

Pipe was set 3' above total depth for cable tool testing.

Yours respectfully,

Jacob E. Lemmons

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JEL/lwl

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DRILLING TIME LOG

<u>Depth</u>	<u>Time</u>										<u>Remarks</u>
2851-60	4	5	6	7	6	6	5	6	6	5	
70	5	6	5	5	4	3	2	2	2	2	
80	1	1	1	1	5	5	5	3	3	3	
90	4	5	5	4	4	4	4	4	4	6	
2900	5	3	4	2	3	3	2	3	2	3	
2901-10	2	3	1	1	3	3	3	3	3	3	
20	2	3	4	3	5	5	5	4	3	3	
30	3	3	3	2	3	4	2	2	2	3	
40	2	2	2	2	4	4	3	5	5	6	
50	5	5	6	4	5	5	4	5	5	5	
60	6	4	4	5	4	2	3	4	6	4	
70	5	5	3	2	1	1	1	2	6	4	SR
80	2	2	2	1	2	1	2	2	2	1	
90	2	2	2	3	1	1	1	1	1	1	
3000	2	1	1	1	2	1	1	1	1	1	
3001-10	1	1	2	3	5	5	4	5	5	5	
20	6	4	3	4	5	4	4	2	2	3	
30	3	1	1	2	1	2	1	1	2	2	
40	4	3	3	3	3	3	3	3	3	3	
50	3	4	5	6	6	4	4	4	3	2	
60	1	1	1	2	2	1	1	2	2	1	
70	1	1	2	1	3	5	4	3	3	4	
80	4	3	4	5	4	3	4	3	1	6	
90	5	4	4	3	3	4	3	2	3	2	
3100	3	2	1	3	3	4	4	4	4	4	
3101-10	4	3	3	3	3	2	3	3	3	2	
20	3	3	3	4	3	5	5	4	4	3	Good odor
30	5	5	5	5	5	6	6	6	7	6	
40	5	4	4	3	8	5	5	5	4	4	DST #1
50	5	4	4	4	3	4	3	4	4	4	
60	4	4	2	2	1	2	3	3	5	5	SR
70	4	5	5	5	5	5	4	3	4	4	
80	5	4	5	4	2	4	4	4	3	4	Vis. 38
90	3	7	6	7	6	6	5	5	6	7	DST
3200	5	4	6	6	8	6	5	6	6	6	
3201-10	11	7	7	4	6	7	6	5	5	6	
20	5	4	3	4	6	6	5	5	5	6	
30	6	7	5	5	5	4	4	4	4	4	
40	5	5	5	6	4	5	4	3	3	4	DST #4
50	5	6	4	4	4	5	3	6	5	4	
5 6	5	4	4	4	4	3	3	2	4	SR	
70	4	6	5	5	2	3	2	2	2	2	Vis. 41 Wt. 10
80	2	2	4	5	5	5	6	5	5	5	
90	6	5	6	5	5	5	6	5	5	6	
3300	5	5	5	4	6	5	6	5	4	3	DST #6

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DRILLING TIME LOG

<u>Denth</u>	<u>Time</u>										<u>Remarks</u>
3301-10	4	4	5	5	6	3	2	4	5	6	SR
20	6	6	6	7	7	7	4	5	6	4	
30	6	5	6	6	6	4	4	4	6	4	SR
40	6	6	4	3	6	6	7	6	6	6	
50	5	5	5	6	4	6	6	6	6	6	
60	5	4	4	5	6	4	6	3	4	5	
70	5	6	5	4	4	3	6	6	6	5	
80	5	5	5	5	6	5	5	7	4	4	
90	3	5	6	4	4	6	4	6	4	4	
3400	4	3	3	3	3	5	3	5	8	6	
3401-10	5	4	5	5	4	4	6	6	5	3	
20	4	5	5	5	5	5	6	5	5	5	Vis. 43
30	4	5	6	6	6	7	6	5	6	5	
40	5	6	5	5	5	5	4	4	4	5	SR
50	4	4	4	4	7	8	5	5	5	5	SR

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