

9-7-19W

U.S. Geol. Surv. - Geol. Surv. - No. - 2487 - 11171 - Russell, Kansas

Bennett & Roberts Oil Opr.
#4 Desmarteau
NW SW NW 9-7-19W.
Rooks County, Kansas

SWOW

The following is a geological report and drilling time log on the #4 Desmarteau, Rifle Pool, Rooks County, Kansas.

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

Well was under geological supervision from 3107' to rotary total depth.

Operator: Bennett & Roberts Oil Opr.
Russell, Kansas
Contractor: Bennett & Roberts Drilling, Inc.
Russell, Kansas
Completed: Rotary Drilling--July 21, 1959.
Casing: 188' of 8 5/8"
Samples: 10' interval from 2900-3100'.
5' interval from 3100' to total depth.
Drilling time: 1' interval from 2900' to total depth.
Elevation: 1986' Rotary Bushing.
Electric Log: None run

NOV 29 1968

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

RECEIVED
STATE CORPORATION COMMISSION

NOV 28 1968

Formation Tops:		
Topeka	2939	(-954)
Hesbner	3141	(-1155)
Toronto	3164	(-1181)
Lansing	3181	(-1195)
Base/Kansas City	3422	(-1436)
Arbuckle	3475	(-1489)
Total Depth	3480	(-1494)

CONSERVATION DIVISION
Wichita, Kansas

Shows of Oil:

3115-33' Topeka--Light buff, crystalline, fossiliferous limestone with some vugular porosity, spotted dark staining and dark saturation. The shows of oil were not considered sufficient to warrant testing.

9-7-1941

W. D. ...
F. ...

3164-75' Toronto--Cream, finely sucrose limestone with spotted staining and saturation. Odor in the wet samples. All but the very top of this zone was included in the first drill stem test.

3181-3206' Lansing--White, crystalline, oolitic limestone with inter-oolitic porosity, odor, and good spotted staining.

DST #1--3168-3205' Open 1 hr. with a very ... intermittent blow; recovered 22' of mud with a few specks of oil. IFP 110#; FFP 140#; BHP 925#. Shut-in 20".

3221-29' White, oolitic, crystalline limestone with a trace of staining and a trace of vugular porosity.

3243-49

RECEIVED
STATE CORPORATION COMMISSION

OFF
3243-49' Off-white, dense--crystalline, limestone with a trace of odor and staining.

NOV 28 1938

DST #2--3220-3252' Open 1 hr. with very weak blow 10"; recovered 6' mud with slight show of oil. IFP & FFP both 105#; BHP 535# in 30".

CONSERVATION DIVISION
Wichita, Kansas

3259-60' Off-white, coars-crystalline oolitic limestone with a trace of staining and saturation. This zone was not previously tested.

3272-3277' White, oolitic limestone with finely vugular porosity and a trace of inter-oolitic porosity. There was odor in the wet samples.

3290-96' White, oolitic, crystalline limestone with inter-oolitic porosity and a trace of free oil and odor in the wet samples.

DST #3--3252-96' Open 1 hr. with a weak blow for only 8"; recovered 15' of mud with very few specks of oil. IFP and FFP both 130#; BHP 1060# in 30".

3320-26' White, dense-finely crystalline slightly oolitic limestone with trace of spotted staining and some finely vugular porosity. Abundant orange chert. *vugular*

3338-42' Light buff, dense limestone with a trace of poor staining and porosity.

3354-60' White, dense-crystalline limestone with some small vugular porosity & spotted staining.

9-7-1941

74
1-3

DST #4--3324-33' Open 1 hr. with a week blow for only 5'; recovered 4' oil-cut mud with about a cup of free oil in the top of the tool. BHP 0# in 30".

3438-45' Marmaton--Light buff, finely crystalline limestone with abundant dark staining.

3475-80' Arbuckle--White, coarsely crystalline, glauconite, sandy, vugular dolomite with a good odor and free oil in the wet samples.

DST #5--3435-80' Open 1 hr. with a week, intermittent blow for 17"; recovered 3' oil, and 17' of slightly oil-cut mud. IFP & FFP both 145#; BHP 690# in 30".

Structurally the #4 Desmarteau was only four feet lower on the top of the Lansing than the #3 Desmarteau, a producer, two locations to the north. On the top of the Arbuckle the #4 well was 23' lower than the #3. Structural differences on the Lansing should not have been sufficient to account for lack of commercial quantities of oil. Apparently, lack of Lansing porosity is to blame for lack of oil. The well was plugged and abandoned.

Yours respectfully,


Jacob E. Lemons

JEL/lml

RECEIVED
STATE CORPORATION COMMISSION

NOV 28 1941

CONSERVATION DIVISION
Wichita, Kansas

9-7-19W

#4 D... ..

DRILLING TIME LOG

<u>Depth</u>	<u>Time</u>										<u>Remarks</u>
2901-10	2	2	2	2	1	1	1	1	1	1	
20	1	1	1	2	2	2	2	2	2	3	Mix mud
30	1	2	2	2	2	2	2	2	2	1	
40	1	1	2	2	2	2	2	2	2	3	
50	3	3	3	3	3	3	3	3	3	2	
60	2	3	2	2	3	3	3	3	3	2	
70	2	2	2	2	2	2	2	3	3	2	
80	2	1	1	1	1	2	2	2	3	4	
90	4	3	3	3	3	4	3	3	3	3	
3000	3	3	2	3	2	2	2	2	2	2	
3001-10	2	2	4	2	2	2	3	2	2	2	
20	1	1	2	1	2	4	4	4	3	3	Mix mud
30	3	3	3	3	4	3	2	3	3	3	
40	4	5	5	5	5	5	4	4	4	4	
50	4	4	4	4	4	2	2	3	3	2	
60	5	5	5	4	5	3	4	4	3	4	
70	3	3	3	3	3	4	4	4	4	3	
80	2	2	3	2	3	4	4	4	4	4	
90	7	7	7	6	5	6	6	6	5	5	Vis. 36
3100	5	5	5	5	5	2	2	2	2	3	
3101-10	4	5	5	5	5	10-3	4	4	4	4	Trip
20	4	4	3	5	4	3	2	3	3	3	
30	2	2	3	3	3	2	2	1	3	3	
40	4	3	3	5	5	4	4	5	5	5	
50	4	3	2	4	3	3	5	6	5	5	Vis. 34
60	3	4	4	3	3	3	3	4	3	3	Odor
70	4	4	4	4	1	1	2	5	3	4	Odor
80	5	5	4	5	6	3	3	3	3	3	Vis. 36
90	3	4	5	4	3	5	5	4	4	4	Vis. 37
3200	4	3	4	6	6	5	3	4	4	4	wt. 10.1
3201-10	6	6	6	4	5	5	6	5	5	4	
20	5	5	3	3	4	4	3	4	4	4	
30	4	3	3	3	3	3	3	3	4	6	
40	4	5	5	6	6	5	3	4	4	4	
50	5	2	3	3	4	5	4	4	4	5	
60	3	5	2	4	1	3	3	3	6	4	DSE #2
70	4	4	5	5	4	5	5	5	5	2	
80	3	6	5	4	5	3	4	8	4	5	
90	5	4	5	5	5	4	5	6	6	6	Vis. 37
3300	5	5	6	5	4	4	6	3	5	6	wt. 10.3
3301-10	5	6	3	3	6	3	2	5	4	6	Circ. 1 hr. Dst. #3
20	4	4	4	4	4	6	5	4	4	5	Vis. 36
30	6	6	7	7	7	7	6	6	8	4	
40	5	8	5	3	5	3	3	6	5	5	
50	3	3	6	5	5	6	5	6	5	5	Vis. 37
60	3	4	4	2	4	4	4	5	5	6	Circ. 1 hr.
70	7	7	10	7	7	6	4	4	3	4	
80	5	4	6	5	4	5	4	5	9	5	
90	4	4	7	6	5	5	5	5	5	7	
3400	6	4	5	6	6	5	6	5	5	6	

RECEIVED
STATE CORPORATION COMMISSION

NOV 28 1983

CONSERVATION DIVISION
Wichita, Kansas

9-7-19W

DRAINAGE TIME LOG

<u>Date</u>	<u>Time</u>										<u>Remarks</u>
3401-10	5	3	3	2	3	3	3	3	3	3	
20	3	4	4	3	4	4	4	3	3	4	
30	3	5	3	3	3	3	3	5	4	4	
40	4	7	5	7	8	5	4	5	7	5	Vis. 40 to 10.3
50	6	4	3	4	2	4	4	4	4	4	
60	6	7	5	5	6	5	5	5	4	5	
70	4	5	4	4	4	4	4	3	4	4	
80	4	4	3	4	4	3	3	3	3	4	Vis. 12 Circ. 1 hr.

RECEIVED
STATE CORPORATION COMMISSION

NOV 9 6 1933

CONSERVATION DIVISION
Wichita, Kansas