

W. P. SIMMONS

GEOLOGIST

1801 PORTER PHONE AM 7-7039

WICHITA, KANSAS

November 20, 1956

GEOLOGIC REPORT

Virginia Drilling Company Inc. #3 Thomas
SE SE NW Section 29 T10S R20W
Rooks County, Kansas: Development Well

Elevation: 2199' R. B.
Rotary T. D. 3750' in
Arbuckle

Commenced: 11/14/56

Completed: 11/25/56

L. P. Pending

Casing Record

8 5/8 @ 220' W/125 sax

5 1/2 @ 3735' W/125 sax

SUMMARY OF FORMATIONS

Neelner	3407' (-1248)
Toronto	3426' (-1267)
Lansing	3445' (-1286)
Base of Kansas City	3663' (-1504)
Conglomerate	3711' (-1552)
Shaley Arbuckle	3723' (-1564)
Solid Arbuckle	3739' (-1580)
Rotary Total Depth	3750' (-1599)

Core: None.

Electric Log: None.

Drill Stem Tests:

- #1. 3579-3630 Open one hour. Recovered 10' mud. BHSIP 0#.
- #2. 3630-70 Open one hour. Recovered 110' of muddy water.
BHSIP 625# in 15".
- #3. 3726-3734 Open 40 minutes. Recovered 12' mud with no shows
of oil. BHSIP 900# in 15".
- #4. 3734-50 Open one hour. Recovered 85' of medium oil cut
mud (approximately 10% oil) with slight trace
of water. BHSIP 760# in 15".

SUMMARY OF FORMATION AND OIL SHOWS

*Return to Del & Co Inc
Virginia Drilling Co Inc
712 Broad
Wichita 67207*

Lansing:

- 3485-89 Limestone white to cream, fine crystalline oolitic and slightly oolitic with poor vugular and oolitic porosity. Some pieces with slight traces of stain. No free oil. No odor. Estimate Non-commercial.
- 3501-04 Limestone grey-cream fine-medium crystalline. Poor porosity. No shows.
- 3516-20 Limestone white chalky fine crystalline. Some slight vugular porosity. Slight trace of stain. Non-commercial.
- 3527-46 Limestone white to cream, fine crystalline, oolitic and oolitic with fair to good oolitic porosity. Some partial staining at top of zone grading to good porosity without stain. Estimate water bearing. Non-commercial.
- 3578-82 Limestone white-cream medium crystalline oolitic in part with poor porosity. Very slight traces of stain. This zone covered by DST #1 and is Non-commercial.
- 3599-3604 Limestone cream-light tan, fine crystalline; poor pin-point porosity with some poor staining. Slight show of free oil. This zone covered by DST #1 and is Non-commercial.
- 3615-19 Limestone grey-light tan, fine medium crystalline. Some fair vugular and pin-point porosity with fair staining in part. Some free oil. This zone also covered by DST #1 and is Non-commercial.
- 3634-40 Streaks of porosity. Limestone cream fine-medium crystalline oolitic and oolitic in part. Some fair to good vugular and oolitic porosity with fair staining in part. This zone covered by DST #2 and is Non-commercial.
- 3653-56 Limestone cream-light grey oolitic in part. Some fair porosity, some fair staining in part. This zone covered by DST #2 and is Non-commercial.

Conglomerate:

- 3711-23 Composed of vari-colored cherts and shales. Non-commercial.

Arbuckle:

- 3723-26 Dolomite light grey fine-medium crystalline. Shaley in part with very poor pin-point porosity. Very slight traces of stain.
- 3726-34 Composed of Dolomite, tan-brown medium to fine crystalline, mealy with poor porosity. Some fair staining. Some free oil. No odor detected. Some cherts, tan-cream and some shaley, junky dolomite. This section tested by DST #3 and is considered Non-commercial.
- 3734-39 Dolomite medium-coarse crystalline with poor porosity. Some staining. Cherts as above and rather junky. Dolomite. No odor.
- 3739-42 Dolomite white to cream, some pink medium to coarse crystalline with poor porosity. Fresh solid appearing dolomite with very slight traces of stain. No odor.
- 3742-58 Dolomite grey to tan-brown some medium crystalline with fair vugular and inter-crystalline porosity. Fair staining in some pieces. In general dolomite medium crystalline with poor porosity. No odor.

RECOMMENDATIONS

In my opinion this test would make a small Arbuckle producer. Comparable to the #1 Thomas in the NW SW NW of Section 29 T10S R20W. It is believed that with acid the well would initially start out as a fair well but would rapidly decline to a 2-3 bbl. well with total recoveries very poor.

It is therefore a question of economics as to whether the well justifies the additional expense of completing with the poor outlook of total recovery. It is believed that this type of well would never pay out and the risk of getting a stinker or dry hole is too great to justify running casing and assuming the additional expense of completing. It is therefore recommended that this well be plugged and abandoned.

Respectfully submitted

W. P. SIMMONS

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1801 PORTER PHONE AM 7-7039

WICHITA, KANSAS

November 28, 1956

Virginia Drilling Company Inc. #3 Thomas
NE SE NW Section 29 T10S R20W
Rooks County, Kansas

Elev. 2159' R.B.

DRILLING TIME

Depth

Time

Remarks

3200-10

20

30

40

50

60

70

80

90

90-3300

10

20

30

40

50

60

70

80

90

90-3400

10

20

30

40

50

60

70

80

90

90-3500

3 2 4 4 5 7 7 5 6 5

6 5 5 6 8 6 5 5 6 6

7 7 6 4 6 4 4 5 3 4

6 5 3 2 4 3 5 7 7 7

6 8 8 5 3 9 8 8 6 4

4 4 3 5 6 5 4 3 7 4

4 6 11 10 3 6 4 2 3 3

3 3 4 5 5 7 5 4 2 2

2 2 2 1 1 1 1 1 1 1

3 3 4 5 5 6 5 7 6 6

4 4 6 6 5 5 4 7 7 7

6 7 7 7 6 6 6 5 6 6

4 4 5 5 10 8 8 6 6 8

8 9 7 7 8 9 8 7 7 8

7 8 8 7 9 9 9 7 8 10

10 8 8 9 10 7 5 2 2 2

2 1 3 4 7 10 13 13 11 8

9 11 11 11 7 11 8 7 8 7

6 4 4 6 9 10 8 8 9 9

11 9 10 10 8 8 9 10 9 8

10 7 9 11 9 9 12 8 6 7

12 16 16 16 9 4 11 8 7 8

7 7 5 5 5 7 6 6 7 5

6 9 9 7 8 8 13 8 6 6

6 7 5 7 5 8 4 8 6 8

10 10 8 5 4 6 7 6 5 7

9 12 12 11 13 15 14 12 10 9

10 10 8 10 9 8 6 5 6 6

5 5 6 5 7 11 8 6 10 8

11 9 9 8 9 11 7 6 6 6

Trip 3255'

Trip 3415'

Virginia Drilling Company Inc. #3 Thomas
Drilling time
Page 2

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3500-10	5 6 6 8 11 11 11 12 13 13	
20	12 12 7 5 7 11 8 7 6 10	
30	10 9 10 10 9 10 9 6 7 6	
40	5 6 5 8 10 7 5 5 5 5	
50	5 5 3 4 6 5 10 12 13 13	
60	13 14 14 8 8 11 12 10 10 10	Trip 3553'
70	10 10 9 8 11 11 9 4 8 13	
80	15 7 5 6 6 6 6 10 14 13	
90	9 10 11 11 13 12 11 14 12 11	
90-3600	13 8 11 13 10 9 8 8 9 7	
10	9 10 10 11 11 10 11 11 12 10	
20	12 13 12 7 6 11 9 11 10 14	
30	10 12 11 16 13 12 14 8 6 7	Circ. DST 3630'
40	8 9 10 8 8 7 4 6 10 13	
50	8 10 10 8 9 12 9 9 6 5	
60	9 10 8 6 8 6 6 6 6 6	Circ. DST 3670'
70	6 7 7 6 7 7 6 8 8 8	
80	6 7 7 6 7 7 6 8 8 8	
90	8 9 6 6 5 6 7 8 5 5	
90-3700	6 7 6 7 5 6 7 8 8 9	
10	8 9 7 7 6 7 9 9 7 9	
20	10 8 8 9 10 9 7 7 7 6	
30	7 7 9 10 6 8 10 10 10 12	Circ 3726'
40	7 5 7 9 5 4 7 6 7 10	Circ 3731' 3734'
50	8 6 9 10 7 6 7 6 8 9	DST 3735'
58	5 5 6 6 6 7 7 7	Circ 3740' 3746'
		Circ 3758'
		DST 3758'

WPS/ms