

9-11NW

Frontier Oil Company
1720 Kansas State Bank Bldg.
Wichita, Kansas 67202

RE: Frontier Oil Company
No. 3 Simpson
NW NE SE 9-11S-17W
Ellis County, Kansas

Dear Sir:

The following is a Geological Report with a time log attached on the above captioned well.

Drilling was supervised from 2400' to 3475', rotary total depth. Samples were examined from 2400' to rotary total depth.

All formation tops, zones of porosity, and staining are based on rotary bushing measurements. Any corrections in measurements during the drilling of this well have been incorporated into this report.

Elevation		1803 DF --- 1806 KB	
Anhydrite	<i>State Geological Survey</i> WICHITA BRANCH	1032	(+ 774)
Tarkio		2568	(- 762)
Topeka		2792	(- 986)
Heebner		3010	(-1204)
Toronto		3031	(-1225)
Lansing-Kansas City		3052	(-1246)
Base of Kansas City		3292	(-1486)
Conglomerate		3310	(-1504)
Arbuckle		3472	(-1666)
RTD		3475	(-1669)

Structurally, on top of the Lansing-Kansas City, the Simpson No. 3 ran 21' lower than the Simpson No. 2 located one location East. On top of the Conglomerate the Simpson No. 3 ran 15' lower than the Simpson No. 2. On top of the Arbuckle the Simpson No. 3 ran 79' lower than the Simpson No. 2.

RECEIVED
STATE CORPORATION COMMISSION

MAY 19 1983

CONSERVATION DIVISION
Wichita, Kansas

ZONES OF INTEREST

TOPEKA (Top 2792 (-986))

2800 to 2806

Tan fine crystalline to slightly vuggy lime with scattered show of free oil and no odor.

DRILL STEM TEST NO. 1 (FOC Test)

2781 to 2830

60-30-60-30
First open fair blow. Second open fair blow. Recovered 245' watery mud.
Initial flow of 62 to 124.
Final flow of 124 to 187.
Initial shut in pressure of 1035.
Final shut in pressure of 1014.

LANSING-KANSAS CITY (Top 3052 (-1246))

3052 to 3060

Tan crystalline lime with no show.

3084 to 3090

Tan crystalline to chalky lime, slightly fossiliferous with no show of oil.

3106 to 3110

State Geological Survey
WICHITA BRANCH

Tan crystalline lime with no show.

3130 to 3134

White crystalline lime with no show.

3142 to 3150

Tan to white crystalline lime with no show.

3194 to 3199

Tan cherty lime with no show.

3216 to 3222

Tan cherty lime with no show.

3238 to 3244

Tan dense to crystalline lime with some pin point porosity. Trace of free oil. No odor.

CONGLOMERATE (Top 3310 (-1504))

3334 to 3340

Pale yellow to orange fresh cherts with some junky lime. No show of oil and no odor. (Included in DST #2.)

3346 to 3370

Yellow, orange, brick red fresh cherts with abundant soft red shale. No show of oil. No odor.

DRILL STEM TEST NO. 2 (FOC Test)

3290 to 3380

60-30 Tool open 60 minutes with a weak blow for 10 minutes. Flushed tool 30 minutes after open no blow. Recovered 20' mud. Initial flow of 103 to 103. Initial shut in pressure of 466. (Tool slid 10 feet.)

ARBUCKLE (Top 3472 (-1666))

3472 to 3475

Light green to white dolomite. Soft appearing with no porosity visible.

Due to low structural position and negative drill stem test results, the Simpson No. 3 was plugged and abandoned, a dry hole.

Sincerely,

Richard D. Parker

Richard D. Parker

/ss

9-11-17w

DRILLING INFORMATION ON THE SIMPSON NO. 3

Contractor: Red Tiger Drilling Company

Drillers: Honas
Bieker
Newell

Tool Pusher: Kenneth Bieker

Spud Date: April 23, 1983

Date of RTD: April 30, 1983

Surface Pipe: 8-5/8" @ 1054' / 425 sx

Casing: None

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 2:00 A.M. on April 25, 1983

1260	Feet	At	7:00 A.M.	On	April 25, 1983
2260	"	"	" "	"	April 26, 1983
2800	"	"	" "	"	April 27, 1983
2890	"	"	" "	"	April 28, 1983
3194	"	"	" "	"	April 29, 1983
3475	"	"	8:25 P.M.	"	April 30, 1983

BIT RECORD

<u>BITS</u>	<u>TYPE</u>	<u>FOOTAGE</u>
No. 1	Walker-McDonald - 052 (New)	1059' to 3380'
No. 2	Walker-McDonald - 052 (New)	3380' to 3475'

State Geological Survey
WICHITA BRANCH

MUD RECORD

Surface:	28 sx Mudco gel, 6 sx hulls, 4 sx lime
2687	65 sx salt gel, 8 sx hulls
2830	67 sx salt gel, 40 sx starch, 4 sx hulls, 2 sx preservative
3106	27 sx salt gel, 10 sx starch, 3 sx hulls
3194	20 sx salt gel, 8 sx starch, 3 sx hulls
3408	20 sx salt gel, 10 sx starch, 5 sx hulls