

8-9-20WP(

GEOLOGICAL REPORT

FRONTIER OIL COMPANY
THYFAULT NO. 2
E/2 SW NW
8-9S-20W
ROOKS COUNTY, KANSAS

Commenced: June 15, 1984

Completed: June 21, 1984

JUL 20 1984

State Geologist
WICHITA BRANCH

RECEIVED
STATE CORPORATION COMMISSION

JUL 19 1984

CONSERVATION DIVISION
Wichita, Kansas

8-9-20W

pl

Frontier Oil Company
1720 Kansas State Bank Building
Wichita, Kansas 67202

Re: Frontier Oil Company
Thyfault No. 2
E/2 SW NW 8-9S-20W
Rooks County, Kansas

Dear Sir:

The following is a Geological Report with a Time Log attached on the above captioned well.

Drilling was supervised from 3000' to 3760', rotary total depth. Samples were examined from 3000' to 3760', rotary total depth.

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

Elevation	2163 GL -- 2168 KB	
Anhydrite	1651 to 1693	(+517)
Topeka	3170	(-1002)
Heebner	3380	(-1212)
Toronto	3399	(-1231)
Lansing-Kansas City	3417	(-1249)
Base-Kansas City	3642	(-1474)
Conglomerate	3661	(-1493)
RTD	3761	(-1593)

Structurally, on top of the Lansing-Kansas City, the Frontier Oil Company Thyfault No. 2 ran 11' low to the Frontier Oil Company Thyfault No. 1 located approximately 1400' to the southeast.

Arbuckle was not encountered at a minus 1593' where drilling ceased, which was 72' below the Frontier Oil Company Thyfault No. 1 Arbuckle top.

ZONES OF INTEREST

TOPEKA (Top 3170)
3170 to 3180

Tan fossiliferous limes.

3200 to 3210

Tan junky fossiliferous limes.

8-9-20W

3326 to 3340 *Shy fault #5*

3348 to 3360 *8-9-20W*

HEEBNER SHALE (Top 3380)

TORONTO (Top 3399)
3399 to 3410

LANSING-KANSAS CITY (Top 3417)
3417 to 3430

3432 to 3440

3458 to 3468

3486 to 3492

3496 to 3502

3504 to 3510

3520 to 3530

3536 to 3542

3550 to 3560

3580 to 3590

3610 to 3622

Tan silty limes and scattered tan and gray fresh cherts.

Tan slightly chalky limes with scattered small shows of plastic oil.

Scattered tan silty limes with scattered small shows of plastic oil and no odor.

Tan fine crystalline silty limes and white chalky limes.

Tan and white chalky limes.

White cherty fossiliferous limes with scattered small shows of plastic oil and no odor.

Tan fossiliferous limes with a trace of oil and no odor.

Scattered white cherty chalky limes with a trace of free oil and a very faint odor.

Scattered crystalline cherty limes with a trace of oil and no odor.

Scattered tan crystalline limes with scattered traces of black dead oil and no odor.

Brown junky to fossiliferous limes.

Tan to white cherty, slightly chalky limes with scattered traces of oil and no odor.

Gray, cherty, vuggy limes with a small show of free oil and white silty lime with a trace of free oil and a faint odor.

White fine crystalline to silty lime with a trace of free oil and dead tarry oil. Tan fossiliferous limes with a trace of free oil and brown dead oil and no odor.

BASE-KANSAS CITY (Top 3642)
3642 to 3654

Thy fault # 8-9-20W

Soft red shales and tan cherty fossiliferous limes.

CONGLOMERATE (Top 3661)
3661 to 3680

Soft red shales, tan cherty fossiliferous limes and white to tan crystalline limes.

CFS @ 3680

3680 to 3690

Brown and white crystalline to chalky limes and scattered tan to yellow cherts.

3690 to 3700

White sand grained lime, brown shales and soft pale green shales.

3700 to 3705

Soft tan and brown shales, white to yellow junky limes and scattered junky limes with a small show of plastic oil.

CFS @ 3705

3710 to 3720

Soft white and tan shales and white crystalline sandy limes.

3720 to 3730

Tan firm chalky and scattered junky limes.

3730 to 3760

Tan chalk, gray cherts, multi-colored shales.

ROTARY TOTAL DEPTH @ 3761'

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DRILLING INFORMATION ON THE THYFAULT NO. 2

8-9-20W

Drilling Contractor: Red Tiger Drilling Co.
Rig No. 9

Drillers: K. Bieker
L. Newell
V. Honas

Tool Pusher: Kenneth J. Bieker

Spud Date: June 15, 1984

Date of RTD: June 21, 1984

Surface Pipe: 8-5/8" @ 250' w/175 sx
common, 3% CC, 2% Gel.

Status: Plugged and abandoned

TOTAL FOOTAGE DRILLED PER DAY
Under surface at 7:00 A.M. on 6-16-84

1822	Feet	At	7:00 A.M.	On	6-17-84
2587	"	"	"	"	6-18-84
3155	"	"	"	"	6-19-84
3527	"	"	"	"	6-20-84
3723	"	"	"	"	6-21-84
3761	Feet	At	12:05 P.M.	On	6-21-84

MUD RECORD

Surface - 39 sx gel, 20 sx hulls, 4 sx lime.

3015 - 11 sx gel, 1 sx preservative.

3440 - 120 sx salt gel, 45 sx starch, 16 sx hulls, 1 sx aldacide, 1 sx preservative.

3680 - 20 sx salt gel.

3761 - 15 sx salt gel.

Thyfault # 8-9-20W

Due to the low structural position and lack of significant oil shows the Frontier Oil Company Thyfault No. 2 was plugged and abandoned a dry hole.

Sincerely,



Steven D. Angle