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10-16-17W

CONFIDENTIAL

JUL 1 2 1985
State Geological Survey
WICHITA BRANCH

GEOLOGICAL REPORT

FRONTIER OIL COMPANY

NO. 7 URBAN "K"

Approx. SE NW SE Sec. 10-16S-17W

RUSH COUNTY, KANSAS

RELEASED
Date: **JUL 1 1985** JUL 1985
FROM CONFIDENTIAL

Commenced: April 26, 1984

Completed: April 30, 1984

RECEIVED
STATE CORPORATION COMMISSION

JUN 22 1984

CONSERVATION DIVISION
WICHITA

Richard D. Parker

JUN 25 1984

CONFIDENTIAL

State Geological Survey
WICHITA BRANCH

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

Re: Frontier Oil Company
 No. 7 Urban "K"
 Approx SE NW SE 10-16S-17W
 Rush County, Kansas

Dear Sir:

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

Samples were examined from 2600' to 3100', rotary total depth.

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

Elevation (L&S)	2008 DF		2011 KB	
	Sample Tops		Log Tops	
Anhydrite	1138	(+ 873)		
Brownville	1776	(- 665)	2680	(- 669)
Dover	2721	(- 710)	2724	(- 713)
Tarkio	2783	(- 772)	2786	(- 775)
Howard	2963	(- 952)	2966	(- 955)
Topeka	3019	(-1008)	3024	(-1013)
RTD	3100	(-1089)	3100	(-1089)
4½" pipe at	3094	(-1083)		

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Structurally, on top of the Tarkio the No. 7 Urban "K" ran 7' low to the Urban "K" No. 5 Twin. On top of the Howard the Urban "K" No. 7 ran 10' low to the Urban "K" No. 5 Twin.

These tops are based on an elevation of 2011 KB. The original Urban "K" No. 4 had an elevation of 2004 KB. There is a discrepancy of approximately 4' to 5' between the two wells. The difference between the two wells should make the two wells running flat with each other.

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ZONES OF INTEREST

BROWNVILLE (Top 2676)

2676 to 2682

Tan chalky lime. No show.

DOVER (Top 2721)

2721 to 2726

White fine crystalline lime with no show.

2740 to 2746

Clear, fine grained sand clusters with some micaceous material.

TARKIO LIME (Top 2783)

2783 to 2790

White fine crystalline lime with no show of oil.

HOWARD (Top 2963)

2963 to 2971

Tan fine crystalline lime with some pin point porosity.

TOPEKA (Top 3019)

3019 to 3026

Tan sucrosic lime with no staining.

4-1/2" casing was set at 3094', 75' in the Topeka and 6' off bottom with 175 sacks common cement 10% salt. A Halliburton DV tool was set in the Anhydrite at 1145' with 50/50 pozmix 6% gel. Zero point is 5' AGL and the shoe joint is 36-38' long.

Sincerely,

Richard D. Parker

RDP:ss

DRILLING INFORMATION ON THE URBAN "K" NO. 7

Drilling Contractor: Red Tiger Drilling

Drillers: Shrout
Fickel
Bailey

Tool Pusher: Bruce Fickel

Spud Date: April 26, 1984

Date of RTD: April 30, 1984

Surface Pipe: 8-5/8" @ 243' w/160 sx

Casing: 4-1/2" @ 3094' w/175 sx
DV @ 1145' w/500 sx

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 11:00 P.M. On April 26, 1984

1050	Feet	At	7:00 A.M.	On	April 27, 1984
1980	"	"	"	"	April 28, 1984
2620	"	"	"	"	April 29, 1984
3100	"	"	8:25 A.M.	"	April 30, 1984

BIT RECORD

<u>BITS</u>	<u>TYPE</u>	<u>FOOTAGE</u>
No. 1	Walker McDonald 03J (new)	289'
No. 2	Walker McDonald 052 (RR)	1518'

MUD RECORD

Surface:	25 sx aquagel, 8 sx hulls, 1 sx lime
2970'	105 sx saltgel, 35 sx starch, 20 sx hulls, 1 sx preservative
3070'	10 sx saltgel

DRILLERS TIME LOG

Frontier Oil Company
No. 7 Urban "K"

Approx SE NW SE
Sec 10-16S-17W
Rush County, Kansas

Elev.: 2008 DF
2011 KB

DEPTH

MINUTES

REMARKS

1 Foot Drilling Time

2600 to	2610	4-3-3-4-3-2-4-3-3-3
	2620	3-3-4-5-4-2-2-1-1-1
	2630	2-1-1-1-1-2-2-1-2-2
	2640	2-1-2-1-2-2-2-1-3-5
	2650	4-4-5-5-3-4-4-3-3-4
	2660	2-2-3-2-2-2-2-2-1-1
	2670	1-1-1-4-3-3-2-3-2-2
	2680	1-1-1-1-2-2-4-4-3-3
	2690	3-4-3-3-3-2-3-4-2-3
	2700	3-2-1-2-3-3-2-3-2-3
2700 to	2710	2-2-2-2-3-2-3-3-2-2
	2720	3-3-2-3-3-3-4-2-2-1
	2730	1-2-3-3-3-3-2-2-1-1
	2740	2-2-2-2-2-2-2-3-3-3
	2750	2-1-1-1-1-1-2-1-1-2
	2760	2-1-1-2-1-2-1-2-2-1
	2770	2-1-2-1-1-2-1-2-1-1
	2780	1-1-1-1-1-1-1-1-1-1
	2790	1-1-1-3-4-3-4-5-5-4
	2800	2-2-3-3-3-2-2-2-2-2
2800 to	2810	2-2-2-3-3-3-2-1-1-1
	2820	2-1-2-2-2-1-2-2-1-1
	2830	2-1-2-1-1-1-1-1-2-1
	2840	1-1-1-2-5-4-3-2-2-2
	2850	3-3-4-4-3-5-4-4-6-3
	2860	3-4-2-1-1-2-4-4-4-4
	2870	4-1-2-2-2-2-4-6-5-5
	2880	4-5-2-3-2-3-2-2-3-4
	2890	3-4-3-4-4-4-3-3-4-3
	2900	3-2-3-3-4-3-2-1-3-2

2900 to	2910	3-2-2-3-2-3-6-5-5-7
	2920	4-4-4-3-4-4-2-3-1-2
	2930	2-2-2-3-2-2-2 2-3-4
	2940	4-3-5-3-3-5-6-3-2-2
	2950	2-2-4-3-3-3-3-3-3-3
	2960	4-7-5-5-6-4-5-4-4-1
	2970	1-1-6-4-3-3-2-3-2-3
	2980	2-5-8-5-4-4-4-3-4-4
	2990	4-7-7-6-4-4-4-4-4-5
3000 to	3010	3-3-2-3-3-2-3-2-2-2
	3020	3-2-2-2-2-3-2-3-3-2
	3030	2-1-1-1- $1\frac{1}{2}$ -1-1-1-1-1- $2\frac{1}{2}$
	3040	2-1-1-1- $1\frac{1}{2}$ - $2\frac{1}{2}$ -2-2-2-3-2
	3050	3-3-2-3-3-3-2-3-2-3
	3060	2-3-3-3-3-3-3-3-3-3
	3070	3-3-3-3-3-2-2-2-2-2
	3080	3-3-2-3-3-3-2-3-2-3
	3090	3-3-3-2-3-2-3-3-3-2
	3100	3-3-3-2-3-3-3-3-4-3
		3-3-3-3-3-2-3-2-3-1