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30-9-28w

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4113

State Geology Survey
WICHITA BRANCH

GEOLOGICAL REPORT

FRONTIER OIL COMPANY

RELEASED
Date: JUL 1 1986
FROM CONFIDENTIAL

State Geology Survey
WICHITA BRANCH

NO. 1 ADAMS

NW NW NE 30-9S-28W

SHERIDAN COUNTY, KANSAS

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Wichita, Kansas

Commenced: January 6, 1985

Date of RTD: January 15, 1985

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Richard D. Parker

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

Re: Frontier Oil Company
No. 1 Adams
NW NW NE 30-9S-28W
Sheridan County, Kansas

Dear Sir:

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

Drilling was supervised from 3200' to 4250', rotary total depth. Samples were examined from 3200' to 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	2845 DF ---	2848 KB
Anhydrite	2450	(+ 398)
Howard	3642	(- 794)
Topeka	3728	(- 880)
Heebner	3948	(-1100)
Toronto	3968	(-1120)
Lansing-Kansas City	3983	(-1135)
Base of Kansas City	4232	(-1384)
RTD	4250	(-1402)
4½" pipe at	4242	(-1394)

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Structurally, on top of the Lansing-Kansas City, the No. 1 Adams ran 5' lower than Jones, Shellburn, Farmers No. 1 Ochs, a dry hole located one mile South.

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ZONES OF INTEREST

HOWARD (Top 3642)

3642 to 3648

Tan fine crystalline to sucrosic lime with some pin point porosity, no show of free oil, no odor, no staining.

3678 to 3686

Tan fine crystalline lime with no show of oil, no odor, no staining.

TOPEKA (Top 3728)

3728 to 3734

Tan fine crystalline lime with no show of oil, no odor, no staining.

3746 to 3752

Tan to yellow fossiliferous lime with no show of free oil, no odor, no staining.

3758 to 3767

Light tan fine crystalline to sucrosic lime with scattered pin point porosity, no show of free oil, no odor, no staining.

3777 to 3780

Light grey junky sand in a dense silica matrix, no show of oil, no odor, no staining.

3808 to 3828

Light tan fine crystalline to slightly chalky lime, no show of oil, no odor.

3843 to 3856

Light grey silty sandy shale and lime, no show oil, no odor.

3880 to 3884

Light grey sandy lime, no show of oil, no odor.

3908 to 3920

Light tan fossiliferous lime with no show of oil, no odor.

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TORONTO (Top 3968)

3968 to 3974

Light tan to light green fossiliferous to fine crystalline lime, no free oil, no odor, no staining.

LANSING-KANSAS CITY (Top 3983)

3983 to 3988

Light tan fine crystalline lime, no show of oil, no odor, no staining.

4010 to 4016

Tan fresh chert and tan dense lime with traces of dark oil, faint odor, traces black oil stain.

4018 to 4020

White fine crystalline to slightly vuggy lime with traces of free oil, fair odor, and traces of black oil stain.

DRILL STEM TEST NO. 1 (FOC Test)

3996 to 4022

60-30-60-30 First open strong blow. Second open strong blow. Recovered 1790' salt water. Initial flows 207 to 643#. Final flows 663 to 941#. Initial shut in pressure 1241#. Final shut in pressure 1220#.

4026 to 4032

White fine crystalline to vuggy lime with a fair show of free oil, fair odor, fair light oil stain.

DRILL STEM TEST NO. 2 (FOC Test)

4022 to 4044

30-30-30-30 First open weak blow. Second open very weak blow 3 minutes. Recovered 15' mud with a few specks oil. Initial flows 41 to 61#. Final flows 41 to 41#. Initial shut in pressure 83#. Final shut in pressure 41#.

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4053 to 4058

Light tan medium crystalline dolomite with no show of oil, no odor, no staining.

4062 to 4068

Light tan medium crystalline dolomite with no show of oil, no odor.

4075 to 4083

Tan fine crystalline to chalky dolomitic lime with no show of oil, no odor.

4112 to 4116

Tan medium to slightly cherty dolomite with no show of free oil, no odor, and a trace of light oil stain.

4150 to 4162

Tan fossiliferous to oolitic lime with traces of free oil, fair odor, and fair light to dark oil stain.

DRILL STEM TEST NO. 3 (FOC Test)

4128 to 4169

60-30-60-30 First open strong blow.
Second open strong blow.
Recovered 806' gas in pipe,
632' clean oil, 124' muddy water,
236' water.
Initial flows 83 to 291#.
Final flows 332 to 457#.
Initial shut in pressure 1220#.
Final shut in pressure 1200#.

4170 to 4174

Tan fossiliferous lime with no show of oil, no staining.

4194 to 4198

Tan fossiliferous lime with no show, no staining.

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4-1/2" casing was set at 4242', 8' off bottom with 190 sacks common cement, 10% added salt. A Halliburton FO tool was set at 2486'. The shoe joint is 42-02' long and zero point is 5' AGL.

Sincerely,

Richard D. Parker

Richard D. Parker

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Wichita, Kansas

RDP:ss

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DRILLING INFORMATION ON THE ADAMS NO. 1

Drilling Contractor: Red Tiger Drilling Co.

Drillers: Kerns
Sam Waggoner
Mike Waggoner

Tool Pusher: Loren "Sam" Waggoner

Spud Date: January 6, 1985

Date of RTD: January 15, 1985

Surface Pipe: 8-5/8" @ 260' w/170 sx

Casing: 4-1/2" @ 4242' w/190 sx
FO Tool @ 2486'

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 11:00 P.M. on January 6, 1985

1107	Feet	At	7:00 A.M.	On	January 7, 1985
2103	"	"	" "	"	January 8, 1985
3000	"	"	" "	"	January 9, 1985
3510	"	"	" "	"	January 10, 1985
3770	"	"	" "	"	January 11, 1985
4022	"	"	" "	"	January 12, 1985
4044	"	"	" "	"	January 13, 1985
4169	"	"	" "	"	January 14, 1985
4250	"	"	11:00 A.M.	"	January 15, 1985

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BIT RECORD

<u>BITS</u>	<u>TYPE</u>	<u>FOOTAGE</u>
No. 1	Reed Y11 (New)	267' to 1828'
No. 2	Smith F27 (New)	1828' to 4169'
No. 3	Smith F3 (Rerun)	4169' to 4250'

MUD RECORD

Surface	32 sx premium gel, 4 sx hulls, 2 sx lime
1828'	32 sx premium gel, 47 sx hulls
2820'	10 sx premium gel, 10 sx hulls
3375'	20 sx premium gel, 16 sx hulls, 4 sx moncose, 9 sx soda ash, 8 sx caustic soda, 5 sx lignite
3680'	1 sx caustic, 1 sx lignite
3964'	10 sx premium gel, 1 sx caustic, 1 sx lignite, 1 sx moncose
4022'	1 sx soda ash, 1/2 sx lignite, 1 sx caustic
4044'	28 sx premium gel, 3 sx caustic, 3 sx soda ash, 1 sx moncose, 1 1/2 sx lignite
4150'	15 sx premium gel, 14 sx hulls, 1 sx caustic, 1/2 sx lignite

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DRILLERS TIME LOG

Frontier Oil Company
No. 1 Adams

NW NW NE
Sec. 30-9S-28W
Sheridan County, Kansas

Elev.: 2845 DF
2848 KB

DEPTH	MINUTES	REMARKS
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1 Foot Drilling Time

3200 to 3210	1-1-1-2-3-4-4-4-3-3
3220	1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$
3230	$\frac{1}{2}$ - $\frac{1}{2}$ -1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$
3240	1-2-1-1-1-2- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$
3250	$\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1-1-1-1-1
3260	3-4-4-3-4-3-4-5-3-2
3270	2-3-4-3-5-2-5-3-3-3
3280	2-2-3-3-2-1-2-2-2-2
3290	1-2-3-3-3-4-5-5-5-6
3300 to 3310	5-4-5-3-5-6-4-4-4-4
3320	3-4-4-5-4-3-3-2-2-3
3330	3-4-4-2-4-3-5-4-4-5
3340	6-5-5-3-4-4-4-3-3-4
3350	3-3-4-4-3-3-2-3-4-4
3360	3-2-3-4-3-2-3-3-1-3
3370	3-4-5-5-6-4-3-3-3-3
3380	2-2-2-2-2-2-2-3-2-2
3390	2-3-5-2-3-4-3-4-3-3
3400 to 3410	3-3-4-3-4-4-4-3-4-4
3420	3-4-4-3-5-4-3-4-4-3
3430	4-3-2-3-4-4-4-4-4-4
3440	3-3-4-4-4-4-4-4-2-1
3450	1-2-2-2-3-3-2-3-3-3
3460	2-2-2-2-3-3-3-3-2-3
3470	2-4-3-2-4-5-5-4-4-3
3480	3-3-5-3-4-5-4-4-6-5
3490	3-3-3-3-3-4-5-4-5-4
3500	3-3-4-3-3-4-5-5-3-2
	2-4-6-3-4-4-2-3-3-4
	3-3-3-3-3-3-2-2-1-2

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3500 to	3510	2-4-3-3-2-3-3-4-4-4
	3520	5-5-4-3-2-3-4-4-3-4
	3530	5-3-4-4-4-4-4-4-3-4
	3540	4-3-3-2-4-4-4-4-4-3
	3550	3-2-2-4-3-4-3-3-3-3
	3560	3-3-3-3-3-4-4-3-3-3
	3570	3-2-4-2-3-3-3-3-3-3
	3580	3-4-3-3-2-3-3-3-3-2
	3590	2-2-2-1-2-2-2-2-4-4
	3600	2-2-3-2-2-2-2-2-2-3
3600 to	3610	3-5-6-5-3-4-6-4-3-5
	3620	6-4-4-4-4-4-5-4-5-4
	3630	5-6-6-5-6-5-3-2-3-4
	3640	4-5-4-4-6-6-6-7-5-4
	3650	4-5-4-3-2-3-2-3-3-3
	3660	3-3-2-5-5-2-4-7-4-6
	3670	5-3-4-5-8-6-5-7-6-7
	3680	3-4-3-4-4-3-3-2-1-1
	3690	3-2-4-2-3-2-4-5-4-4
	3700	4-4-5-3-4-3-3-4-3-4
3700 to	3710	3-4-3-3-6-5-5-5-5-5
	3720	5-3-4-6-6-4-3-4-2-4
	3730	5-5-5-7-7-8-9-8-4-3
	3740	3-2-3-4-5-5-6-6-6-5
	3750	5-5-5-3-4-6-4-3-3-3
	3760	3-2-4-5-6-6-4-6-4-4
	3770	3-3-1-2-2-2-3-2-2-2
	3780	2-2-3-5-4-5-6-5-3-4
	3790	7-6-5-6-7-4-5-4-3-3
	3800	3-2-3-2-4-4-3-2-2-2
3800 to	3810	2-2-3-3-3-2-2-2-1-1
	3820	2-1-2-2-3-2-3-3-3-3
	3830	3-3-3-3-3-4-3-3-4-5
	3840	5-6-6-4-4-3-3-2-2-4
	3850	2-3-5-2-3-2-3-2-2-2
	3860	1-2-2-2-2-1-2-2-2-2
	3870	2-4-6-8-8-7-6-7-6-5
	3880	4-2-3-2-2-3-3-5-5-7
	3890	5-4-7-6-6-4-5-3-3-3
	3900	2-4-3-4-4-3-4-5-4-5
3900 to	3910	4-3-4-4-4-4-5-5-3-3
	3920	3-3-4-3-3-5-6-5-4-4
	3930	3-4-6-5-5-3-5-4-2-4
	3940	4-4-6-3-4-4-4-3-3-2
	3950	2-2-2-3-2-4-5-5-4-4
	3960	2-4-5-6-6-7-7-7-6-7
	3970	7-8-7-8-7-7-8-7-4-3
	3980	3-3-5-3-5-5-8-8-8-7
	3990	3-5-7-6-3-3-5-4-4-3
	4000	4-3-3-3-4-5-4-5-4-4

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4000 to	4010	3-6-5-7-9-8-4-7-7-7
	4020	6-5-3-4-3-4-4-5-3-4
	4030	4-6-3-4-4-4-4-3-3-3
	4040	4-3-5-5-5-4-6-5-4-5
	4050	5-4-5-5-4-8-5-5-5-5
	4060	5-6-6-4-4-5-6-6-5-5
	4070	5-8-7-6-5-6-5-6-6-5
	4080	6-5-5-4-5-3-5-5-5-5
	4090	5-5-7-4-5-5-6-5-5-5
	4100	6-5-4-5-5-6-5-7-4-3
4100 to	4110	4-5-5-5-5-5-4-6-5-6
	4120	6-6-4-4-5-5-6-6-5-5
	4130	5-5-5-5-4-4-6-6-5-7
	4140	6-5-6-7-7-5-5-7-6-6
	4150	6-7-6-5-6-6-5-6-4-3
	4160	5-4-6-7-6-7-5-3-2-2
	4170	2-3-5-6-7-6-6-7-7-2
	4180	3-3-5-6-5-4-5-5-4-4
	4190	5-4-5-3-5-4-4-4-3-4
	4200	5-4-4-4-5-5-5-5-5-5
4200 to	4210	6-6-5-6-5-5-4-4-3-4
	4220	4-4-5-4-5-5-5-5-5-5
	4230	4-5-7-4-4-3-6-4-4-4
	4240	4-4-2-3-2-2-1-2-2-2
	4250	2-2-2-2-3-3-3-3-3-5

DST No. 1 (3996 to 4022)

DST No. 2 (4022 to 4044)

DST No. 3 (4128 to 4169)

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