

Computer inventoried

30-9-28W
15-179-20827

Paul

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GEOLOGICAL REPORT

FRONTIER OIL COMPANY

RELEASED

Date: OCT 1 1986

FROM CONFIDENTIAL

NO. 2 ADAMS

C S/2 S/2 NE 30-9S-28W

SHERIDAN COUNTY, KANSAS

JUL - 6 1985

State Geological Survey
WICHITA BRANCH

Commenced: June 10, 1985

Date of RTD: June 19, 1985

Richard D. Parker

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STATE CORPORATION COMMISSION

JUN 16 1985

CONSERVATION DIVISION
Wichita, Kansas

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

Re: Frontier Oil Company
No. 2 Adams
C S/2 S/2 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 4210', rotary total depth. Samples were examined from 3400' 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 the well have been incorporated into the report.

Elevation (Topographic)	2817 GL ---	2822 KB
Anhydrite	2430	(+ 392)
Howard	3622	(- 800)
Topeka	3710	(- 888)
Heebner	3930	(-1108)
Toronto	3950	(-1128)
Lansing Kansas City	3964	(-1142)
Base of Kansas City	4207	(-1385)
RTD	4210	(-1388)

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Structurally on top of the Howard, the No. 2 Adams ran 6' lower than the No. 1 Adams, a Lansing producer located two locations Northwest. On top of the Topeka the No. 2 Adams ran 8' lower than the No. 1 Adams. On top of the Lansing-Kansas City the No. 2 Adams ran 8' lower than the No. 1 Adams.

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ZONES OF INTEREST

HOWARD (Top 3622)

3622 to 3630

Tan fine crystalline to sucrosic lime with no show of oil.

3658 to 3664

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Tan fine crystalline lime with no show of oil.

TOPEKA (Top 3710)

3710 to 3715

Tan fine crystalline lime with no show of oil.

3730 to 3736

Tan fine crystalline lime with no show of oil.

3743 to 3752

Tan to yellow fossiliferous lime with no show of oil.

3780 to 3800

Tan fine crystalline lime with no show of oil.

TORONTO (Top 3950)

3950 to 3960

Tan fossiliferous lime with no show of oil.

LANSING-KANSAS CITY (Top 3964)

3964 to 3974

Tan fossiliferous to fossilcastic lime with no show of oil.

3992 to 3998

White fossiliferous lime with no show of oil.

4008 to 4016

White fine crystalline to cherty lime with no show of free oil, no odor.

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4024 to 4028

Tan fossiliferous to oolitic lime with no show of oil.

4044 to 4060

White poorly developed oolitic lime with no show of oil.

4118 to 4124

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Tan oolitic to dense lime with a trace of free oil, trace of stain, and no odor.

DRILL STEM TEST NO. 1 (FOC Test)

4098 to 4130

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60-30-30-30 First open weak blow increasing to fair blow.
Second open fair blow.
Recovered 170' salt water, 10' mud.
Initial flows 72 to 103#.
Final flows 82 to 123#.
Initial shut in pressure 1216#.
Final shut in pressure 1186#.

4134 to 4140

White oolitic lime with a fair show of free oil, fair odor, fair dark oil stain.

DRILL STEM TEST NO. 2 (FOC Test)

4128 to 4150

Packer failure

DRILL STEM TEST NO. 3 (FOC Test)

4098 to 4150

60-30-30-30 First open weak blow increasing to fair blow.
Second open weak blow.
Recovered 250' watery mud.
Initial flows 82 to 144#.
Final flows 165 to 206#.
Initial shut in pressure 1236#.
Final shut in pressure 1216#.

4161 to 4164

Tan fine crystalline to fossiliferous lime with no show of free oil, and no odor.

4188 to 4194

White chalky lime with no show of oil.

Rotary Total Depth 4210'

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Due to the low structural position and negative drill stem test results, the No. 2 Adams was plugged and abandoned, a dry hole.

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Sincerely,

Richard D. Parker

Richard D. Parker

RDP

RDP:ss

DRILLING INFORMATION ON THE ADAMS NO. 2

Contractor: Red Tiger Drilling Co.

Drillers: Koehler
Lyle
Waggoner

Tool Pusher: Kenneth Lyle

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Spud Date: June 10, 1985

Date of RTD: June 19, 1985

Surface Pipe: 8-5/8" @ 259' w /170 sx

Casing: None

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TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 12:15 A.M. On June 11, 1985

	Feet	At	7:00 A.M.	On	June 11, 1985
980	"	"	" "	"	June 12, 1985
2020	"	"	" "	"	June 13, 1985
2596	"	"	" "	"	June 14, 1985
3081	"	"	" "	"	June 15, 1985
3503	"	"	" "	"	June 16, 1985
3850	"	"	" "	"	June 17, 1985
4103	"	"	" "	"	June 18, 1985
4150	"	"	" "	"	June 19, 1985
4210	"	"	4:09 A.M.	"	

BIT RECORD

<u>BITS</u>	<u>TYPE</u>	<u>CONFIDENTIAL</u>	<u>FOOTAGE</u>
No. 1	CP-EH 126		265' to 1800'
No. 2	CF-EH 537C		1800' to 4130'
No. 3	HTC-J22 (Rebuilt)		4130' to 4210'

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MUD RECORD

(Mud-Co)

Surface	21 sx premium gel, 6 sx hulls, 3 sx lime
1800'	85 sx premium gel, 40 sx hulls, 2 sx lime
2430'	44 sx premium gel, 96 sx hulls, 5 sx mud seal, 2 sx soda ash
2937'	4 sx hulls
3391'	56 sx premium gel, 38 sx hulls, 10 sx soda ash, 6 sx lignite, 6 sx caustic, 1 sx moncose
3718'	37 sx premium gel, 1½ sx moncose, 2 sx caustic, 2 sx soda ash, 1 sx lignite, 15 sx hulls
4025'	10 sx premium gel, 10 sx hulls, 3 sx soda ash, 3 sx caustic, 1/2 sx moncose
4103'	20 sx premium gel, 8 sx hulls, 1 sx caustic, 1/2 sx soda ash
4150'	10 sx premium gel, 1 sx caustic

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DRILLERS TIME LOG

Frontier Oil Company
No. 2 Adams

C S/2 S/2 NE
30-9S-28W
Sheridan County

Elev.: 2817 GL
2822 KB

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DEPTH	MINUTES	REMARKS
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1 Foot Drilling Time

3200 to 3210	1-1-1-1-1-1-1-1-1-1
3220	1-3-2-1-1-1-1-1-1-1
3230	1-2-1-2-1-3-3-4-3-3
3240	5-4-3-1-5-4-4-3-2-2
3250	4-5-4-3-4-3-4-4-4-5
3260	5-4-2-2-3-2-2-2-3-3
3270	3-3-3-3-3-3-3-4-4-5
3280	4-3-4-4-4-2-3-3-3-4
3290	2-3-2-3-3-2-3-2-3-4
3300	4-3-2-4-5-3-6-6-5-6
3300 to 3310	6-4-5-5-5-4-3-4-5-4
3320	4-5-3-4-3-4-2-2-2-3
3330	4-3-4-3-4-3-3-2-1-3
3340	2-3-2-3-4-2-2-2-2-2
3350	2-2-2-1-1-2-2-3-1-3
3360	1-3-3-1-3-1-1-1-1-2
3370	2-2-3-3-3-3-3-3-3-4
3380	3-5-4-4-5-3-4-4-3-4
3390	4-3-2-4-3-3-4-5-4-5
3400	3-5-5-5-5-5-3-4-4-4
3400 to 3410	5-3-3-3-2-3-3-4-2-2
3420	1-3-2-2-3-3-2-2-2-2
3430	2-3-5-5-5-6-6-5-3-3
3440	3-5-7-7-7-8-5-5-6-4
3450	4-3-3-3-6-6-7-8-6-4
3460	3-2-4-3-3-6-6-4-4-3
3470	3-4-6-4-5-5-3-3-5-7
3480	3-4-3-4-5-3-2-2-2-4
3490	4-4-1-2-5-5-3-5-5-7
3500	6-5-3-3-4-5-5-7-6-6

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3500 to	3510	5-5-5-5-6-5-5-5-5-5
	3520	4-4-4-7-4-6-7-7-6-4
	3530	4-4-4-4-5-4-5-6-5-5
	3540	6-5-5-5-6-6-5-4-6-6
	3550	4-4-3-5-5-5-5-5-5-5
	3560	6-6-3-4-4-4-4-4-4-3
	3570	2-3-3-3-3-3-3-4-8-6
	3580	3-3-3-3-3-2-2-4-4-6
	3590	8-8-7-5-6-6-7-6-6-6
	3600	7-5-4-3-4-5-5-5-5-5
3600 to	3610	7-6-6-6-4-2-2-2-3-4
	3620	4-5-4-5-5-4-5-3-3-4
	3630	3-3-2-1-2-2-2-2-3-2
	3640	1-1-1-3-2-2-3-4-3-3
	3650	2-2-3-5-5-4-4-4-5-6
	3660	4-4-3-3-4-2-3-3-2-2
	3670	1-2-2-1-4-2-4-5-4-6
	3680	6-5-5-3-4-3-3-4-4-5
	3690	4-7-8-5-5-6-5-5-5-4
	3700	4-3-2-4-5-4-4-2-3-3
3700 to	3710	3-3-3-3-4-5-4-5-5-5
	3720	3-3-3-3-3-3-5-4-5-5
	3730	6-3-5-6-6-5-4-4-3-4
	3740	3-3-2-3-3-4-6-7-6-5
	3750	5-5-6-4-3-3-3-3-3-3
	3760	3-2-4-3-4-6-5-5-5-2
	3770	4-5-4-5-6-5-5-5-7-6
	3780	4-3-2-1-2-3-2-4-3-2
	3790	1-2-2-2-3-2-3-2-3-3
	3800	2-1-1-2-2-1-1-1-1-2
3800 to	3810	4-3-2-4-2-2-3-2-2-2
	3820	2-2-4-6-7-6-3-5-2-3
	3830	2-1-2-2-4-4-3-4-3-4
	3840	3-3-2-2-2-2-3-1-2-2
	3850	2-2-2-3-5-6-5-5-6-6
	3860	4-4-3-3-4-4-4-3-3-3
	3870	4-5-4-4-5-6-5-5-4-3
	3880	2-3-2-2-2-2-2-2-3-6
	3890	6-5-7-5-4-5-6-5-6-6
	3900	3-4-4-3-2-2-2-5-8-6
3900 to	3910	7-4-4-4-5-5-3-3-6-3
	3920	5-5-5-2-2-4-4-4-4-3
	3930	3-3-2-3-2-2-2-5-6-4
	3940	5-3-2-5-5-7-6-7-6-7
	3950	8-6-8-7-7-4-8-6-8-8
	3960	7-4-4-5-5-6-7-6-7-8
	3970	5-5-7-6-5-5-4-3-2-3
	3980	2-3-2-3-4-6-4-3-4-4
	3990	5-4-4-6-6-6-5-8-7-8
	4000	10-7-8-8-7-7-7-9-7-8

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4000 to	4010	4-4-6-5-6-8-9-7-5-7
	4020	5-5-4-5-7-5-6-9-6-6
	4030	5-6-7-10-6-7-5-7-6-9
	4040	6-7-6-5-6-5-6-5-7-6
	4050	6-5-5-5-5-4-4-5-4-5
	4060	6-7-6-9-7-5-5-3-4-4
	4070	6-6-6-7-6-4-6-6-5-6
	4080	6-5-6-7-6-8-7-5-5-6
	4090	6-7-7-8-7-3-5-7-6-6
	4100	7-8-7-9-7-11-6-8-6-3
4100 to	4110	3-5-6-5-3-5-7-6-5-6
	4120	7-6-5-6-7-7-8-8-7-5
	4130	9-10-7-9-8-9-9-9-10-6
	4140	4-6-6-7-7-7-6-7-6-6
	4150	5-7-5-4-7-5-4-3-3-6
	4160	5-5-5-8-5-7-7-7-6-5
	4170	7-4-7-6-8-8-6-7-7-5
	4180	4-5-5-6-5-6-7-7-7-8
	4190	8-6-9-7-7-7-8-9-10-8
	4200	7-8-6-8-6-6-4-5-5-5
4200 to	4210	5-4-6-8-6-8-9-6-6-6

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DST No. 1 (4098 to 4130)

DST No. 2 (4128 to 4150) pkr fail

DST No. 3 (4098 to 4150)

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