

Computer inventoried

15 10-28W

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Date: JAN 1 1986

FROM CONFIDENTIAL

GEOLOGICAL REPORT

FRONTIER OIL COMPANY

NO. 1 BIEKER

200' N of SE SE SW

Sec. 15-10S-28W

SHERIDAN COUNTY, KANSAS

JAN 21 1986

State Geological Survey
WICHITA BRANCH

JAN 21 1986

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OCT 26 1984

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Rotary Commenced: September 17, 1984

Rotary Completed: September 24, 1984

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Joel A. Alberts
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OCT 19 1984

CONSERVATION DIVISION
Wichita, Kansas

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

Re: Frontier Oil Company's
No. 1 Bieker
200' N of SE SE SW
Sec. 15-10S-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 3300 ft. to 4110 ft., rotary total depth.
Samples were examined from 3300 ft. to rotary total depth.

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

Elevation: (L&S)	2715 GL	--- 2720 KB
Anhydrite	2268	(+ 452)
Howard	3480	(- 760)
Topeka	3572	(- 852)
Heebner	3799	(-1079)
Toronto	3820	(-1100)
Lansing-Kansas City	3835	(-1115)
Base of Kansas City	4089	(-1369)
Rotary Total Depth	4110	(-1390)

Structurally, on top of the Lansing-Kansas City the No. 1 Bieker ran 5 ft. low to the Dreiling Oil Company's No. 1 Schippers, a dry hole located in the NE NE NE of Section 22.

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Baker #1

15-10-28W

ZONES OF INTEREST

HOWARD (Top 3480 (-760))

3483 to 3489

Buff fine crystalline limestone.
No odor. No show of oil.

3502 to 3505
3516 to 3523

White to buff fine crystalline
sub chalky limestone. Trace of
pin point porosity, fossilcastic
in part. No odor. No show.

TOPEKA (Top 3572 (-852))

3572 to 3579

White medium crystalline to sucrosic
limestone. Poor intercrystalline
porosity. Trace of pin point
porosity. No odor. No show.

3591 to 3594

White sucrosic limestone.
No odor. No show of oil.

3602 to 3613

White medium crystalline to sucrosic
limestone. Trace of pin point
porosity. No odor. No show.

3629 to 3663

Buff fine crystalline sucrosic
limestone. Trace of pin point
porosity. No odor. No show.

3751 to 3757

Buff fine crystalline oomoldic
limestone. Barren. No odor.
No show.

3774 to 3778
3786 to 3794

White fine crystalline, sub chalky
limestone. Trace of pin point
porosity. No odor. No show.

TORONTO (Top 3820 (-1100))

3821 to 3823

White fine crystalline, sub chalky
limestone. No odor. No show.

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LANSING-KANSAS CITY (Top 3835 (-1115))

3838 to 3846

White to buff fine crystalline, dense limestone. Trace of pin point porosity. Scattered vugular porosity. No odor. No show of oil.

3869 to 3876

Buff fine crystalline limestone. Fair oomoldic and vugular porosity. Fair show of heavy black oil. No odor. Fair spotted staining and saturation.

3878 to 3884

White to light grey fine crystalline limestone. Fair intercrystalline and pin point porosity. Dark brown staining with even saturation. Slight odor. Slight show of free oil.

DRILL STEM TEST NO. 1 (FOC Test)

3858 to 3894

60-30-15-30 First opening weak blow. Second opening no blow. Recovered 63' fluid; 5' oil, 20' very slightly oil cut mud, 30' mud with a scum of oil. Initial flow of 62 to 73#. Final flow of 73 to 83#. Initial shut in pressure 93#. Final shut in pressure 114#.

3912 to 3919

White medium to coarse crystalline dolomite. Fair intercrystalline porosity. Dark brown spotted stain. No odor. No show of free oil.

3965 to 3969

Tan medium crystalline dolomite. Fair intercrystalline porosity. No odor. Fair show of free light yellow oil. Brown staining and even saturation.

3978 to 3984

Light grey fine crystalline limestone. No odor. No show of oil.

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Wichita, Kansas

Bieker #1

15-10-28W

3988 to 3991

White medium crystalline, sub chalky oolitic limestone. Trace of pin point porosity. No odor. Slight show of free oil. Brown staining.

DRILL STEM TEST NO. 2 (FOC Test)

3950 to 4000

30-30-30-30 First opening weak blow 25 minutes. Second opening no blow.
Recovered 50' mud with oil specks. Initial flow of 52 to 62#. Final flow of 83 to 83#. Initial shut in pressure 1322#. Final shut in pressure 1250#.

4004 to 4009

Tan fine crystalline, dense dolomite. Trace of pin point porosity. Light brown staining. No odor. No show of free oil.

4027 to 4033

White oolitic limestone. Fair to good porosity. Dark spotted staining. No odor. No show of free oil.

DRILL STEM TEST NO. 3 (FOC Test)

3988 to 4042

45-45-45-45 First opening weak blow 5 minutes. Second opening no blow, flushed tool no help. Recovered 10' oil cut mud. Initial flow of 62 to 73#. Final flow of 83 to 104#. Initial shut in pressure of 166#. Final shut in pressure of 124#.

4046 to 4053

White fine crystalline limestone. Scattered poor oolitic porosity. Spotted dark black staining. No odor. No show of free oil.

Due to the low structural position and negative drill stem test results, the No. 1 Bieker was plugged, a dry hole.

Sincerely,

OCT 19 1984

Joel A. Alberts
Joel A. Alberts
CONSERVATION DIVISION
Wichita, Kansas

JAA:ss

Bieker #1 15-10-28W

DRILLING INFORMATION ON THE NO. 1 BIEKER

Contractor: Red Tiger Drilling Rig #2

Drillers: David Kerns
Loren Waggoner
Mike Waggoner

Tool Pusher: Loren Waggoner

Spud Date: September 17, 1984

Date of RTD: September 24, 1984

Surface Casing: 8-5/8" @ 210' w/150 sx

Production Casing: None

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 9:00 P.M. on September 17, 1984

1220	Feet	At	7:00 A.M.	On	September 18, 1984
2600	"	"	" "	"	September 19, 1984
3281	"	"	" "	"	September 20, 1984
3521	"	"	" "	"	September 21, 1984
3894	"	"	" "	"	September 22, 1984
3987	"	"	" "	"	September 23, 1984
4042	"	"	" "	"	September 24, 1984
4110	"	"	5:22 P.M.	"	September 24, 1984

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Baker #1, 15-10-28W

BIT RECORD

BITS

TYPE

FOOTAGE

No. 1	Hughes HTC R-1	220' to 1733'
No. 2	Reed FP52-D	1733' to 4000'
No. 3	Security S84F	4000' to 4110'

MUD RECORD

(Mudco Mud)

Surface	30 sx gel, 2 sx hulls, 1 sx lime
2300'	18 sx gel, 8 sx hulls, 1 sx soda ash
3200'	30 sx gel, 8 sx soda ash, 4 sx caustic
3300'	2 sx caustic soda
3400'	2 sx caustic soda, 8 sx hulls, 5 sx lignite, 4 sx driscose
3415'	1 sx caustic soda, 1 sx soda ash, 1/2 sx lignite
3500'	8 sx gel, 1 sx caustic soda, 2 sx soda ash, 1 sx driscose, 3 sx hulls, 1/2 sx lignite
3650'	1 sx caustic soda, 1/2 sx lignite
3795'	8 sx gel, 1 sx caustic soda, 1/2 sx lignite
3894'	18 sx gel, 1 sx caustic soda, 1 sx lignite
4000'	1 sx soda ash, 1 sx caustic soda, 1/2 sx lignite
4042'	8 sx gel, 1 sx caustic

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