

8-9-20Wp

RELEASED
Date: FEB. 1 1986
FROM CONFIDENTIAL

GEOLOGICAL REPORT

FRONTIER OIL COMPANY X

NO. 1 HAMEL

SW NW SE Sec. 8-9S-20W

ROOKS COUNTY, KANSAS

Rotary Commenced: October 3, 1984

Rotary Completed: October 9, 1984

RECEIVED
STATE CORRELATION COMMISSION

NOV 26 1984

CONCRETE DIVISION
Wichita, Kansas

Joel A. Alberts

NOV 26 1984

CONFIDENTIAL
State Geological Survey
WICHITA BRANCH

61740

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

Re: Frontier Oil Company's
No. 1 Hamel
SW NW SE Sec. 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 3100 ft. to 3764 ft., rotary total depth. Samples were examined from 3100 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)	2209 GL	---	2214 KB
Anhydrite	1700		(+ 514)
Howard	3167		(- 953)
Topeka	3218		(-1004)
Heebner	3425		(-1211)
Toronto	3453		(-1239)
Lansing-Kansas City	3467		(-1253)
Base of Kansas City	3682		(-1468)
Conglomerate	3738		(-1524)
Rotary Total Depth	3764		(-1550)

Structurally, on top of the Lansing-Kansas City the No. 1 Hamel ran 16 ft. low to C-G Drilling's No. 1 Thyfault, an Arbuckle producer one location NW. The Arbuckle was not encountered at a 3764 (-1550) in the No. 1 Hamel.

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Wichita, Kansas

Hamel #1

8-9-20W

ZONES OF INTEREST

TOPEKA (Top 3218 (-1004))

3247 to 3253

Buff chalky limestone. Good pin point porosity. No odor. No show.

3372 to 3378

White chalky limestone. Fair pin point porosity. No odor. No show.

3392 to 3402

White fine crystalline subchalky limestone. Fair pin point and vugular porosity. No odor. No show.

LANSING-KANSAS CITY (Top 3467 (-1253))

3503 to 3508

White fine crystalline subchalky limestone. Trace of pin point porosity. No odor. No show of oil.

3517 to 3519

White fine crystalline limestone. Poor vugular porosity. Trace dark spotted stain. No odor. No show of free oil.

3546 to 3549

White oolitic limestone. Scattered brown staining. Very faint odor. No show free oil.

3554 to 3558

Limestone as above. No show. No odor.

3593 to 3597

White fine crystalline limestone. Trace of spotted staining. No odor. No show of free oil.

3615 to 3619

White fine crystalline limestone. Trace of fossilcastic porosity. Light brown stain. No odor. No show of free oil.

3632 to 3635

White fine crystalline oolitic limestone. Poor visible porosity. Very faint odor. Scattered brown staining. No show of free oil.

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Topeka, Kansas

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3652 to 3656

White fine crystalline subchalky limestone. Trace of pin point porosity. Light brown stain. No odor. No show of free oil.

3672 to 3674

White fine crystalline limestone. Trace of vugular porosity. Trace of dark staining. No odor. No show of free oil.

CONGLOMERATE (Top 3738 (-1524))

3738 to 3742

Soft red shale, grey shale, abundant fresh yellow chert, scattered white to grey weathered chert with pin point porosity. No odor. Good show of free oil and dark brown to black staining.

DRILL STEM TEST NO. 1 (FOC Test)

3729 to 3742

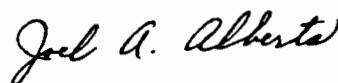
15-30-15-30 First opening weak blow 5 minutes. Second opening no blow. Recovered 5 ft. mud. Initial flow of 41 to 41#. Final flow of 41 to 41#. Initial shut in pressure 415#. Final shut in pressure 332#. (Plugging action)

3742 to 3764

Grey fissile shale with scattered chert grading into abundant weathered chert, yellow and white. Fair to good pitted porosity. No odor. Scattered show free oil and abundant dark brown to black staining.

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

Sincerely,



Joel A. Alberts

JAA:ss

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CONSERVATION DEPARTMENT
COLUMBIA, MO

DRILLING INFORMATION ON THE NO. 1 HAMEL

8-9-20W

Contractor: Red Tiger Drilling Rig #3

Drillers: John Ball
Ross Crawford, Jr.
Richard Cox

Tool Pusher: Ross Crawford, Jr.

Spud Date: October 3, 1984

RTD Date: October 9, 1984

Surface Casing: 8-5/8" @ 209' w/140 sx

Production Casing: None

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 2:47 A.M. On October 4, 1984

	Feet	At	7:00 A.M.	On	
700					October 4, 1984
1865	"	"	" "	"	October 5, 1984
2815	"	"	" "	"	October 6, 1984
3053	"	"	" "	"	October 7, 1984
3520	"	"	" "	"	October 8, 1984
3742	"	"	" "	"	October 9, 1984
3764	"	"	5:39 P.M.	"	October 9, 1984

BIT RECORD

<u>BITS</u>	<u>TYPE</u>	<u>FOOTAGE</u>
No. 1	Smith FDT	213' to 1490'
No. 2	Sandvic CFS-20	1490' to 3764'

MUD RECORD (Mud-Co)

Surface	32 sx gel, 2 sx caustic soda, 1 sx soda ash
2900'	92 sx gel, 1 sx soda ash
2960'	15 sx gel
3270'	35 sx gel
3420'	40 sx starch, 10 sx hulls, 2 sx preservative
3630'	12 sx gel, 8 sx starch, 1 sx soda ash

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REGISTRATION DIVISION
Topeka, Kansas