

22-16-4E

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State Geological Survey
WICHITA BRANCH

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GEOLOGICAL REPORT *

FRONTIER OIL COMPANY'S

NO. 1 DOMANN

NW SW NW

Sec. 22-16S-4E

DICKINSON COUNTY, KANSAS

RELEASED
AUG 1 1984
Date: _____
FROM CONFIDENTIAL

Commenced: June 25, 1983

Completed: July 2, 1983

RECEIVED
STATE CORPORATION COMMISSION

JUL 27 1983

CONSERVATION DIVISION
Wichita, Kansas

Joel A. Alberts

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

RE: Frontier Oil Company's
No. 1 Domann
NW SW NW Sec. 22-16S-4E
Dickinson County, Kansas

Dear Sir:

The following is a Geological Report with a time log attached on the above captioned well.

Drilling was supervised from 1450' to 2915', rotary total depth. Samples were examined from 1000' to rotary total depth.

All formation tops, zones of porosity, and staining 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)	1360 GL ---	1365 KB
Heebner	1485	(- 120)
Lansing	1705	(- 340)
Base of Kansas City	2038	(- 673)
Mississippian	2260	(- 895)
Kinderhook	2352	(- 987)
Hunton	2509	(-1144)
Maquoketa	2660	(-1295)
Viola	2734	(-1369)
Simpson	2816	(-1451)
Simpson Sand	2840	(-1475)
Arbuckle	2865	(-1500)
RTD	2915	(-1550)

ZONES OF INTEREST

LANSING (Top 1705 (-340))

1791 to 1797

White poorly developed oolitic limestone. Barren. No odor.
No show of oil.

1802 to 1809

White poorly developed oolitic limestone. Barren. No odor.
No show of oil.

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1882 to 1886

Tan to white poorly developed oolitic limestone. Barren. No odor. No show.

MISSISSIPPIAN (Top 2260 (-895))

2260 to 2270

White weathered chert. No odor. No show of oil.

2270 to 2286

White weathered and fresh cherts. Scattered fresh pink and yellow cherts. No odor. Very slight show of free oil. Trace of stain.

DRILL STEM TEST NO. 1 (Halliburton)

2268 to 2289

60-30-60-30 First opening weak blow building to blow off bottom in 23 minutes. Second opening weak blow building to blow off bottom in 29 minutes. Recovered 8' oil cut mud, 120' oil specked mud, 240' salt water, 10' mud on top of tool. Initial flow of 10 to 114#. Final flow of 114 to 197#. Initial shut in pressure 467#. Final shut in pressure 467#.

HUNTON (Top 2509 (-1144))

2526 to 2534

White medium to coarse crystalline dolomite. Good intercrystalline porosity. No odor. No show. White translucent chert.

VIOLA (Top 2734 (-1369))

2740 to 2749

Tan to brown medium to coarse crystalline dolomite. Scattered white opaque chert. No odor. No show.

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DRILL STEM TEST NO. 2 (Halliburton)

2740 to 2750

60-30-60-30 First opening weak blow increasing to blow off bottom in 12 minutes. Second opening weak blow increasing to blow off bottom in 5 minutes. Recovered 1178' slightly salty water. Initial flow of 62 to 383#. Final flow of 383 to 579#. Initial shut in pressure 945#. Final shut in pressure 945#.

SIMPSON SAND (Top 2840 (-1475))

2840 to 2865

Medium grained sand clusters with red shale laminations. No odor. No show of oil.

DRILL STEM TEST NO. 3 (Halliburton)

2804 to 2847

60-30-30-30 First opening blow off bottom immediately. Second opening blow off bottom immediately. Recovered 2232' brackish water. Initial flow of 145 to 996#. Final flow of 996 to 1083#. Initial shut in pressure 1083#. Final shut in pressure 1101#.

ARBUCKLE DOLOMITE (Top 2865 (-1500))

2865 to 2915

Tan to grey medium to coarse crystalline dolomite. Abundant fresh grey chert. Fair to poor intercrystalline porosity. Vuggy in part. No odor. No show.

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

Sincerely,

Joel A. Alberts
Joel A. Alberts

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DRILLING INFORMATION ON THE NO. 1 DOMANN

Contractor: Red Tiger Drilling (Rig 3)

Drillers: John Ball
Short Crawford
Henry Poskey

Tool Pusher: Short Crawford

Spud Date: June 25, 1983

RTD Date: July 2, 1983

Surface Casing: 8-5/8" @ 289' w/175 sx

Production Casing: None

TOTAL FOOTAGE DRILLED PER DAY

Under surface at 3:20 A.M. on June 26, 1983

450	Feet	At	7:00 A.M.	On	June 26, 1983
1570	"	"	" "	"	June 27, 1983
2075	"	"	" "	"	June 28, 1983
2289	"	"	" "	"	June 29, 1983
2665	"	"	" "	"	June 30, 1983
2825	"	"	" "	"	July 1, 1983
2915	"	"	1:50 A.M.	"	July 2, 1983

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BIT RECORD

BITS

TYPE

FOOTAGE

No. 1	Security S86F	294' to 1665'
No. 2	Security S86F	1665' to 2289'
No. 3	Security M84F	2289' to 2915'

MUD RECORD

Surface	35 sx gel, 5 sx hulls, 3 sx lime
1000'	30 sx gel
1400'	15 sx gel
1570'	24 sx gel, 3 sx soda ash, 4 sx caustic soda, 3 sx tannothin
1760'	25 sx gel, 1 sx soda ash, 2 sx caustic soda, 2 sx tannothin
1950'	20 sx gel, 1 sx soda ash, 1 sx caustic soda, 1 sx tannothin
2075'	18 sx gel, 1 sx caustic soda, 1 sx tannothin
2235'	15 sx gel, 1 sx soda ash, 1 sx caustic soda, 1 sx tannothin
2289'	20 sx gel, 1 sx caustic soda, 1 sx tannothin, 7 sx hulls
2350'	8 sx gel, 1 sx caustic soda, 1 sx tannothin, 1 sx soda ash, 6 sx hulls
2510'	9 sx hulls, 2 sx mud fiber, 2 sx mud seal
2665'	15 sx gel, 1 sx soda ash, 1 sx caustic soda, 1 sx tannothin
2750'	35 sx gel, 1 sx caustic soda, 1 sx tannothin, 6 sx hulls, 2 sx mud seal
2825'	1 sx caustic soda, 1 sx soda ash, 1 sx tannothin
2870'	20 sx gel, 1 sx soda ash, 1 sx caustic soda