

20-9-18Wd

State Geological Survey  
WICHITA

*Sub*

GEOLOGICAL REPORT

FRONTIER OIL COMPANY  
MEYERS NO. 1  
NE NE NW  
20-9S-18W  
ROOKS COUNTY, KANSAS

Commenced: October 1, 1983  
Completed: October 7, 1983

RECEIVED  
STATE CORPORATION COMMISSION  
JAN 05 1984  
CONSERVATION DIVISION  
Wichita, Kansas

20-9-18WA

State Geological Survey  
WICHITA BRANCH

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

Re: Frontier Oil Company  
Meyers No. 1  
NE NE NW 20-9S-18W  
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 2700' to 3625', rotary total depth. Samples were examined from 2700' to 3625', 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 this well have been incorporated into this report.

Elevation	2169 GL -- 2174 KB
Anhydrite	1554 to 1590 ( +620)
Topeka	3112 ( -938)
Heebner	3322 (-1148)
Toronto	3346 (-1172)
Lansing-Kansas City	3367 (-1193)
Base-Kansas City	3577 (-1403)
Conglomerate	3597 (-1423)
RTD	3625 (-1451)

Structurally, on top of the Lansing-Kansas City the Meyers No. 1 ran 3' high to the Frontier Oil Company Harrison "A" No. 4 located approximately 700' to the northeast.

No Arbuckle was encountered at a minus of a 1451', whereas the Harrison "A" No. 4 had an Arbuckle top of a minus 1699'.

ZONES OF INTEREST

TOPEKA (Top 3112)

3112 to 3120	Tan fossiliferous limes with no show of oil and no odor.
3140 to 3155	Gray junky lime.
3250 to 3156	Tan crystalline limes.
3160 to 3168	Tan to gray, cherty vuggy lime with a very good show of free oil and heavy oil and no odor.

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3282 to 3290	Tan crystalline limes and black to gray fresh cherts.
3296 to 3302	White, cherty, slightly chalky, pyrited lime with a fair show of plastic oil and a fair odor.
3304 to 3310	White, vuggy, oolitic, cherty lime with a good show of wet staining and a faint odor.
<u>HEEBNER SHALE (Top 3322)</u>	
<u>DRILL STEM TEST NO. 1</u>	
3246 to 3330	TEST: 60-30-60-30. Fair blow increasing to a good blow. SI 30". Fair blow throughout. SI 30". Recovered 439' of muddy water. PRESSURES: 61-183, 183-274, 681-671 Bhps.
<u>TORONTO (Top 3346)</u>	
3346 to 3351	Tan crystalline to sucrosic lime and white chalky limes.
<u>LANSING-KANSAS CITY (Top 3367)</u>	
3367 to 3372	Scattered fossiliferous limes and white crystalline limes.
3380 to 3386	White, fine crystalline lime and tan fresh cherts with scattered shows of wet oil staining and a faint odor.
3397 to 3408	White, slightly vuggy, fossiliferous lime and oolitic limes with traces of free oil, good staining and no odor.
3423 to 3432	Tan to white cherty limes, and chalky limes with fair staining and a faint odor.
3437 to 3444	Tan cherty limes with scattered black tar oil and dead oil and a fair odor.
3450 to 3457	Tan crystalline limes and white chalky limes with light staining and a faint odor.
3459 to 3466	White chalky limes with a scattered show of wet staining and a fair odor.
3466 to 3472	White chalky limes with a scattered show of wet staining and a fair odor.

20-9-18.0 P1  
1 Meyers

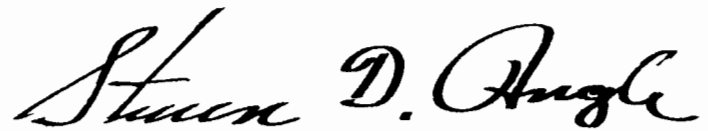
3478 to 3484	White chalky limes and tan cherty to crystalline limes.
3496 to 3502	Tan to white chalky limes.
3518 to 3523	Tan dense lime with a trace of light staining, light film of oil and a faint odor.
3536 to 3542	White fine crystalline lime with a trace of free oil, spotted light to dark staining and a good odor.
3556 to 3565	Scattered black shales, gray to green soft shales, scattered cherts and soft red shales.
<u>BASE-KANSAS CITY (Top 3577)</u> 3577 to 3584	Scattered black shales and soft gray gummy shales.
3588 to 3592	White chalky limes.
<u>CONGLOMERATE (Top 3597)</u>	Soft red shales and junky limes.
3612 to 3618	Red shales, white limes and scattered cherts.
3620 to 3625	Light green limes and light tan cherts.
<u>ROTARY TOTAL DEPTH @ 3625'</u>	

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1 Meyers

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1 Meyers

Due to the low structural position, negative drill stem test and lack of positive oil shows the Frontier Oil Company Meyers No. 1 was plugged and abandoned a dry hole.

Sincerely,



Steven D. Angle

State Geologist Survey  
WICHITA BRANCH

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DRILLING INFORMATION ON THE MEYERS NO. 1

Drilling Contractor: Red Tiger Drilling Co.  
Rig No. 7

Drillers: W. Ayers  
R. Kennedy  
T. Derauf

Tool Pusher: William Ayers

Spud Date: October 1, 1983

Date Of RTD: October 7, 1983

Surface Pipe: New 8-5/8" Set @ 283' w/185 sx  
Common Plus 3% CC, 2% Gel. CDC.

Casing: None - Plugged & Abandoned

TOTAL FOOTAGE DRILLED PER DAY  
Under surface at 8:10 P.M. on 10-1-83

1056	Feet	At	7:00 A.M.	On	10-2-83
2418	"	"	"	"	10-3-83
3005	"	"	"	"	10-4-83
3330	"	"	"	"	10-5-83
3466	"	"	"	"	10-6-83
3625	Feet	At	12:21 A.M.	On	10-7-83

MUD RECORD

Surface - 35 sx gel, 4 sx hulls, 6 sx lime.  
2826 - 70 sx salt gel, 11 sx hulls.  
3266 - 40 sx starch, 10 sx salt gel, 12 sx hulls, 3 sx preservative.  
3372 - 30 sx salt gel, 10 sx starch, 3 sx hulls.  
3607 - 4 sx hulls.