

20-08S-23W
SE-NW-SE

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Rains & Williamson Oil Company Inc.
Shimek #1
SE-NW-SE; Section 20-8s-23w
Graham County, Kansas
Page No. 1

15-065-23179-00-00

5 1/2" Production Casing Set

Contractor: Murfin Drilling Co. (Rig #8)
Commenced: May 16, 2006
Completed: May 21, 2006
Elevation: 2256' K.B.; 2254' D.F.; 2251' G.L.
Casing Program: Surface; 8 5/8" @ 219'
Production; 5 1/2" @ 3845'
Samples: Samples saved and examined 3300' to the Rotary Total Depth.
Drilling Time: One (1) foot drilling time recorded and kept 3300' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Formation Testing: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Log Tech; Dual Induction, Dual Compensated Porosity, Sonic and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1944	+312
Topeka	3343	-1087
Heebner	3553	-1297
Toronto	3578	-1322
Lansing	3596	-1340
Base Kansas City	3804	-1548
Rotary Total Depth	3850	-1594
Log Total Depth	3846	-1590

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

3506-3514' Limestone; tan, buff, oomoldic, fair oomoldic porosity, trace white and gray, fossiliferous chert, and loose fossil fragments.
3524-3532' Limestone; as above.

TORONTO SECTION

3578-3584' Limestone; white, gray, finely crystalline, granular in part, fossiliferous, sparry calcite cement, slug tan gray, opaque chert.

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LANSING SECTION

- 3596-3602' Limestone; tan, highly oolitic, fair to good porosity, questionable brown stain, no show of free oil or odor in fresh samples.
- 3610-3616' Limestone; tan, fossiliferous, poor visible porosity, black tarry stain, show of free oil (black, dead appearing), and no odor in fresh samples.
- 3627-3632' Limestone; tan, gray, fossiliferous, black, heavy tarry stain, show of free oil (heavy , black) and no odor in fresh samples.
- 3642-3650' Limestone; tan, fossiliferous/oolitic, fair porosity, trace gray chert.
- 3667-3674' Limestone; tan, brown, finely crystalline, fossiliferous chalky, trace spotty brown to golden brown stain, no show of free oil or odor in fresh samples.
- 3680-3700' Limestone; cream, white, fossiliferous, chalky in part, poor visible porosity, no shows.
- 3724-3732' Limestone; cream, white, gray, fossiliferous, poorly developed fossil cast porosity, trace brown to dark brown stain, show of free oil and faint odor in fresh samples.
- 3742-3746' Limestone; white, tan, finely crystalline, oolitic in part, scattered porosity, trace brown to black stain and saturation, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 3704-3750' (log measurements 3700-3746')

Times: 30-45-45-60

Blow: Strong

Recovery: 1550' gas in pipe
1060' clean gassy oil
140' oil cut muddy water
(20% gas, 10% oil, 40% water, 30% mud)
260' water

Pressures: ISIP 1126 psi
FSIP 1102 psi
IFP 84-343 psi
FFP 359-566 psi
HSH 1819-1800 psi

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- 3756-3761' Limestone; gray, cream, oolitic/fossiliferous, chalky in part, fair golden brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #2

3753-3780' (log measurements 3749-3776')

Times: 30-45-45-60

Blow: Strong

Recovery: 555' water

Pressures: ISIP 1198 psi
FSIP 1123 psi
IFP 23-151 psi
FFP 156-265 psi
HSH 1845-1831 psi

3776-3780' Limestone; white, gray, slightly fossiliferous, chalky, dull gray to brown stain, trace of free oil and no odor in fresh samples.

3789-3800' Limestone; white, gray, fossiliferous in part.

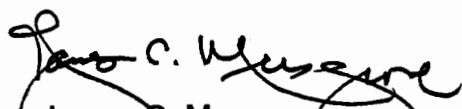
Rotary Total Depth 3850 (-1594)
Log Total Depth 3846 (-1590)

Recommendations:

On the basis of the favorable structural position and the positive Drill Stem Tests, it was recommended by all parties involved to set and cement 5 1/2" production casing at 3845' (one foot off bottom, log measurements) and the following zones be tested in the Shimek #1:

1. Lansing 3742-3746
2. Lansing 3628-3632

Respectfully submitted;


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