

5 1/2" Production Casing Set

Contractor: H2 Drilling Co. (rig #1)

Commenced: April 16, 2014

Completed: April 23, 2014

Elevation: 3151' K.B., 3149' D.F., 3141' G.L.

Casing program: Surface; 8 5/8" @ 252'
Production, 5 1/2" @ 4899'

Sample: Samples saved and examined 3800' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 3800 ft. to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log: By Weatherford; Array Induction Shallow Focused Electric Log; Compact Photo Density, Compensated Neutron Microresistivity Log and Microresistivity Log.

| <u>Formation</u> | <u>Log Depth</u> | <u>Sub-Sea Datum</u> |
|--------------------|------------------|----------------------|
| Base Anhydrite | 2310 | +841 |
| Hebner | 3912 | -761 |
| Toronto | 3937 | -786 |
| Lansing | 3958 | -807 |
| Stark Shale | 4272 | -1121 |
| Base Kansas City | 4416 | -1265 |
| Marmaton | 4446 | -1295 |
| Pawnee | 4539 | -1388 |
| Fort Scott | 4573 | -1422 |
| Cherokee Shale | 4618 | -1467 |
| Morrow | 4800 | -1649 |
| Rotary Total Depth | 4900 | -1749 |
| Log Total Depth | 4900 | -1749 |

(All top and zone determination were made from a correlation of Electric Log measurements).

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

LANSING SECTION

| | |
|------------|---|
| 3926-3954' | NO SHOWS encountered in the drilling of the Toperka and Tereke sections. (see attached sample log/geologist report). |
| 3958-3972' | Limestone, cream, light gray, finely crystalline, slightly sucrosic, oolitic, few fossiliferous, chalky, poor visible porosity, plus chert, cream, tan, boney. |
| 4000-4020' | Limestone, cream, light gray, finely crystalline, oolitic, poor scattered pinpoint type porosity, chalky in part, trace brown stain, no free oil and no odor. |
| 4023-4040' | Limestone, tan, light gray, finely crystalline, slightly chalky, poor visible porosity, no shows. |
| 4050-4069' | Limestone, white, cream light gray, finely crystalline, oolitic, poor crystalline type porosity, dark brown to black stain, no show of free oil and no odor in fresh samples. |
| 4088-4100' | Limestone, cream, white and light gray, slightly oolitic, chalky, poorly developed porosity, dark brown to black stain, show of free oil (dead) and no odor in fresh samples. |
| 4110-4150' | Limestone, tan, cream, finely crystalline, oolitic, poor porosity, plus trace chert; white, gray, boney, questionable discoloration in limestone, no free oil and no odor in fresh samples. |
| 4178-4197' | Limestone, white, cream, finely crystalline, cherty in part, poor porosity, no shows. |
| 4212-4223' | Limestone, white, cream, finely crystalline, poorly developed pinpoint to fine inter-crystalline porosity, chalky, trace black stain, no free oil and no odor in fresh samples. |
| 4230-4238' | Limestone, cream, white, oolitic sub oomoldic, chalky, trace spotty stain, no free oil and no odor in fresh samples. |
| 4246-4260' | Limestone, white, cream, finely crystalline, oolitic, oomoldic, good oomoldic porosity, chalky, trace poor stain, no free oil and no odor, plus white, cream, boney chert. |
| 4280-4288' | Limestone, tan, gray, finely crystalline, oolitic, poor visible porosity, chalky, spotty stain, no free oil and no odor in fresh samples. |
| 4301-4320' | Limestone, gray, light gray, finely crystalline, chalky, no shows. |
| 4336-4351' | Limestone, gray, light gray, finely crystalline, poor visible porosity, slightly chalky, dense. |

MARMATON SECTION

4400-4410' Limestone, cream, tan, finely crystalline, highly oolitic, poor to fair porosity, no shows.

slightly chalky, dense.

4458-4467' Limestone, white, light gray, cream, finely crystalline, highly oolitic, poor to fair finely vuggy type porosity, golden brown to dark brown stain, show of free oil and fair to good odor when samples broken.

Drill Stem Test #1 4416-4473

Times: 30-60-60-90

Blow: Strong

Recovery: 534' gas in pipe
184' gassy oil cut mud
(30% gas; 30% oil; 40% mud)
247' gassy oil

Pressures: ISIP 474 psi
FSIP 444 psi
IFP 20-114 psi
FFP 123-176 psi
HSH 2209-2195 psi

4497-4510' Limestone, tan, gray, finely crystalline, oolitic; plus tan/gray, chert, no shows.

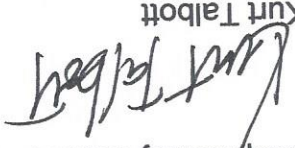
PAWNEE SECTION

4539-4552' Limestone, light gray tan, finely crystalline oolitic/fossiliferous, poor pinpoint to inter-crystalline porosity, trace spotty stain, no free oil in fresh samples.

4555-4570' Limestone, as above, plus tan/gray chert, no shows.

FT SCOTT SECTION

4573-4585' Limestone, cream, light gray, finely crystalline, oolitic, fair porosity, golden brown stain, fair show of free oil and fair odor in fresh samples, plus chert, tan/cream, boney.

Respectfully submitted;

 Kurt Talbott
 Petroleum Geologist

Recommendations: The 5 1/2 Production Casing Set was set and cemented on the Rees Ranch #12-19.

Rotary Total Depth 4900 - 1749
Log Total Depth 4900 - 1749

4800-4900' Varied colored shales; few silty and sandy in part, no good sand development.

MORROW SECTION

4620-4030' Limestone, gray, tan, white, finely crystalline, chalky, poor porosity, no shows.

4661-4676' Limestone, tan, gray, finely oolitic, poor porosity, no shows.

4700-4740' Limestone, tan, buff, finely dense, few oolitic, fossiliferous, chalky; plus scattered white/amber chert.

4740-4795' Limestone, tan, gray, finely crystalline, fossiliferous, cherty in part, few sandy, no shows.

CHEROKEE SECTION

4606-4616' Limestone, tan, buff, finely crystalline, cherty in part, dense, trace sandy white, limestone, at base.

Pressures: ISIP 131 psi
 FSIP 83 psi
 IFP 32-32 psi
 FFP 33-34 psi
 HSH 2340-2300 psi

Blow: Weak
Recovery: 5' mud