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Empire Energy E&P LLC
Wokaty #7
NE-SE-SW-NW; Section 12-22s-12w
Stafford County, Kansas
Page No. 1

5 1/2" Production Casing Set

Contractor: Ninnescah Drilling Inc (Rig #10)

Commenced: October 23, 2011

Completed: October 28, 2011

Elevation: 1833' K.B.; 1831' D.F.; 1822' G.L.

Casing Program: Surface; 8 5/8" @ 598'
Production; 5 1/2" @ 3699'

Samples: Samples saved and examined 2700' to the Rotary Total Depth.

Drilling Time: One (1) foot drilling time recorded and kept 2700' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: None.

Electric Log: By Superior Well Services; Dual Induction, Compensated Density/Neutron Porosity Log, Micro Log and Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	602	+1231
Base Anhydrite	624	+1209
Heebner	3100	-1267
Toronto	3118	-1285
Douglas	3132	-1299
Brown Lime	3228	-1395
Lansing	3251	-1418
Base Kansas City	3482	-1649
Viola	3513	-1680
Simpson Sand	3550	-1717
Arbuckle	3600	-1767
Rotary Total Depth	3700	-1867
Log Total Depth	3702	-1869

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

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

TOPEKA SECTION

2806-3100' There were several zones of well-developed porosity encountered in the drilling of the Topeka section but no shows of oil and/or gas was noted (see attached Sample Log/Geologist Report).

TORONTO SECTION

3118-3130' Limestone; cream, finely crystalline, chalky in part, few slightly dolomitic, scattered porosity, no shows.

LANSING SECTION

3251-3270' Limestone; cream, chalky, oolitic in part, poorly developed porosity, no shows.

3275-3280' Limestone; cream, tan, fossiliferous/oolitic, chalky.

3280-3288' Limestone; cream, finely crystalline, fossiliferous, chalky, few scattered porosity, trace brown stain, no show of free oil and no odor in fresh samples.

3300-3310' Limestone; cream, tan, fossiliferous/oolitic, chalky, questionable brown stain, no show of free oil and no odor.

3317-3321' Limestone; gray, tan, fine and medium crystalline, fossiliferous, scattered intercrystalline and vuggy type porosity, brown stain, show of free oil and no odor.

3329-3340' Limestone; gray, oolitic, oomoldic, chalky, fair oomoldic porosity, spotty brown stain, no show of free oil and no odor in fresh samples.

3344-3360' Limestone; cream, tan, finely crystalline, chalky, few fossiliferous, no shows.

3390-3397' Limestone; light gray, cream, sub oomoldic, chalky, fair porosity, brown stain, trace of free oil and no odor.

3403-3410' Limestone; cream, light gray, white, finely crystalline, chalky, oolitic, brown stain, show of free oil when broken and faint odor in fresh samples.

3418-3440' Limestone; gray, sub oomoldic, chalky, questionable stain, no show of free oil and no odor in fresh samples.

3450-3470' Limestone; cream, fine and medium crystalline, slightly fossiliferous, chalky, fair fossil cast and intercrystalline porosity, brown stain, trace of free oil and questionable odor in fresh samples.

3470-3482' Limestone; cream, finely crystalline, chalky, few oolitic, no shows.

VIOLA SECTION

3513-3530' Chert; amber, cream, white, boney, few semi-tripolitic, black stain, trace of free oil and no odor.

3530-3550' Chert; as above, boney.

SIMPSON SECTION

3573-3576' Sand; gray, white, very fine grained, sub rounded, sub angular, fair sorting, calcareous, fair intergranular porosity, trace loose unconsolidated quartz grains, trace brown stain, trace of free oil and faint odor in fresh samples.

ARBUCKLE SECTION

3600-3610' Dolomite; cream, tan, finely crystalline, few with intercrystalline and vuggy type porosity, golden brown stain.

3610-3620' Dolomite; tan, cream, fine and medium crystalline, scattered intercrystalline porosity, brown stain, show of free oil and fair odor in fresh samples.

3620-3640' Dolomite; tan, fine and medium crystalline, slightly sucrosic, fair intercrystalline and vuggy type porosity, brown stain and saturation, show of free oil and fair to good odor in fresh samples.

3640-3660' Dolomite; cream, tan, finely crystalline, sucrosic, fair to good porosity, brown and black stain, show of free oil and fair odor in fresh samples.

3660-3680' Dolomite; cream, white, finely crystalline, sucrosic, poorly developed porosity, trace black and brown stain, no show of free oil, plus white boney chert.

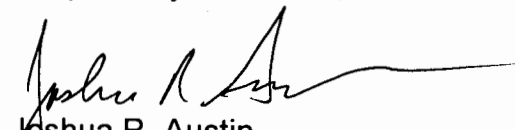
3680-3700' Dolomite; white, light gray, cream, finely crystalline, sucrosic, slightly cherty, trace black stain, no show of free oil and very faint odor in fresh samples.

Rotary Total Depth 3700
Log Total Depth 3700

Recommendations

5 ½" production casing was set and cemented.

Respectfully submitted;



Joshua R. Austin,
Petroleum Geologist