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American Warrior Inc.
Grubb Unit #2-5
SE-NE-NE-SW (2296' FSL & 2611' FEL)
Section 5-16s-10w
Ellsworth County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Duke Drilling Co. (Rig #9)
Commenced: January 13, 2014
Completed: January 19, 2014
Elevation: 1843' K.B; 1841' D.F; 1835' G.L.
Casing program: Surface; 8 5/8" @ 343'
Production; 5 1/2" @ 3419'
Sample: Samples saved and examined 2700' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2700 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There was one (1) Drill Stem Test ran by Trilobite Testing Co.
Electric Log: By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity Log, and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	643	+1200
Base Anhydrite	670	+1173
Heebner	2862	-1019
Toronto	2879	-1036
Douglas	2893	-1050
Brown Lime	2963	-1120
Lansing	2978	-1135
Base Kansas City	3275	-1432
Arbuckle	3300	-1457
Rotary Total Depth	3420	-1577
Log Total Depth	3420	-1577

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

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

TOPEKA SECTION

2700-2862' No shows of oil and/or gas were noted (see attached Geologist Report/Sample Log).

TORONTO SECTION

2881-2891' Limestone; cream to tan, few fossiliferous, chalky, poor visible porosity, trace black stain, no show of free oil and no odor in fresh samples.

LANSING SECTION

2978-2990' Limestone; tan, fossiliferous, chalky in part, poor visible porosity, no shows.

3011-3021' Limestone; tan, cream, oolitic, oomoldic, good oomoldic and vuggy type porosity, no shows and questionable odor in fresh samples.

3029-3042' Limestone; tan, oolitic, oomoldic, poor to fair oomoldic porosity, no shows.

3052-3060' Limestone; cream, tan, finely crystalline, poor visible porosity no shows.

3075-3084' Limestone; tan, cream, finely crystalline, oolitic, poor to fair porosity, slightly cherty, no shows.

3091-3100' Limestone; cream, white, oolitic, oomoldic, scattered porosity, no shows.

3122-3132' Limestone; tan, brown, finely crystalline, slightly cherty, poor visible porosity, no shows.

3140-3148' Limestone; tan, white, oolitic, chalky, no shows.

3155-3166' Limestone; cream to tan, fossiliferous, chalky, few cherty, no shows.

3197-3204' Limestone; white, cream, oolitic, chalky, poor visible porosity, no shows.

3210-3220' Limestone; as above.

3235-3250' Limestone; cream, white, finely crystalline, slightly cherty, dense.

ARBUCKLE SECTION

3310-3317' Dolomite; cream, to tan, finely crystalline, fair intercrystalline porosity, brown stain, show of free oil and faint to fair odor in fresh samples.

Drill Stem Test #1 3272-3317'

Times: 30-30-45-45

Blow: Strong

Recovery: 40' gas in pipe
660' heavily oil and gas cut watery mud
(10% mud, 10% water, 40% oil, 40% gas)
250' muddy water

Pressures: ISIP 843 psi
FSIP 843 psi
IFP 113-225 psi
FFP 251-378 psi
HSH 1658-1607 psi

- 3317-3340' Dolomite; tan, finely crystalline, sucrosic, fair scattered pinpoint type porosity, good intercrystalline type porosity, brown stain, show of free oil and fair odor in fresh samples.
- 3340-3360' Dolomite; as above, poor visible porosity, trace stain, poor show of free oil and faint odor in fresh samples.
- 3360-3380' Dolomite; tan, finely crystalline, sandy, poor visible porosity, no shows.
- 3380-3400' Dolomite; tan, finely crystalline, poor scattered intercrystalline type porosity, dense, no shows.
- 3400-3420' Dolomite; as above, no shows.

Rotary Total Depth 3420
Log Total Depth 3420

Recommendations: 5 1/2" production casing was set and cemented on the American Warrior Grubb Unit #2.

Respectfully submitted;

Wyatt Urban
Wyatt Urban,
Petroleum Geologist