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American Warrior Inc.
Tempero #8-23
NE-SW-NE-SE (1703' FSL & 918' FEL)
Section 23-17s-14w
Barton County, Kansas

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5 1/2" Production Casing Set

Contractor: Duke Drilling Co. (rig #8)

Commenced: August 13, 2014

Completed: August 19, 2014

Elevation: 1913' K.B., 1911' D.F., 1905' G.L.

Casing program: Surface; 8 5/8" @ 848'
Production, 5 1/2" @ 3500'

Sample: Samples saved and examined 2900' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2900 ft. to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were three (3) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log: By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity Log and Micro-resistivity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	874	+1039
Base Anhydrite	901	+1012
Heebner	3075	-1162
Toronto	3087	-1174
Brown Lime	3149	-1236
Lansing	3158	-1245
Base Kansas City	3361	-1448
Conglomerate	3366	-1453
Arbuckle	3391	-1478
Rotary Total Depth	3500	-1587
Log Total Depth	3503	-1590

(All tops and zones corrected to Electric Log Measurement)

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

TOPEKA SECTION

3020-3040 Limestone, white, gray, finely crystalline, finely oomoldic, scattered porosity, gray and black stain, no show of free oil and no odor in fresh samples.

TORONTO SECTION

3087-3100' Limestone, tan, finely crystalline, slightly cherty, fair with scattered vuggy type porosity, brown and dark brown stain, no show of free oil and faint odor in fresh samples.

LANSING SECTION

3161-3167' Limestone, white, gray, oolitic, oomoldic, fair porosity, trace brown and dark brown stain, show of free oil and faint and fair odor in fresh samples.

3188-3193' Limestone white, oomoldic, fair oomoldic porosity, plus white, oolitic chert, no shows.

3206-3211' Limestone, white, gray, oolitic, chalky, spotty brown stain, no free oil and no odor, plus gray and white chert.

3221-3226' Limestone, white, gray, oolitic, fossiliferous, chalky, trace golden brown stain, show of free oil and faint odor.

3231-3240' Limestone, white, gray, cream, oolitic, oomoldic, fair porosity, golden brown and light brown stain, weak show of free oil and faint odor.

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Drill Stem Test #1 **3194-3239**

Times: 30-30-45-60

Blow: Strong

Recovery: 126' gas in pipe
 20' slightly oil cut mud
 (10% oil; 90% mud)
 631' muddy water with oil spots

Pressures: ISIP 326 psi
 FSIP 361 psi
 IFP 20-36 psi
 FFP 41-54 psi
 HSH 1536-1515 psi

3250-3280' Limestone, tan, brown finely crystalline, few cherty, (dense).

3291-3300' Limestone, tan, oomoldic, good oomoldic porosity, good stain and saturation, show of free oil and fair odor in fresh samples.

Drill Stem Test #2 **3271-3300**

Times: 30-30-45-60

Blow: Strong; gas to surface
 3 minutes into final flow,
 T.S.T.M.

Recovery: 2331' gas in pipe
 330' clean gassy oil
 252' muddy gassy oil
 126' gassy slightly watery and mud cut oil
 (50% gas; 40% oil; 5% water; 5% mud)
 126' muddy water

Pressures: ISIP 410 psi
 FSIP 417 psi
 IFP 101-216 psi
 FFP 222-328 psi
 HSH 1578-1530 psi

- 3316-3320' Limestone, white, finely crystalline, slightly oolitic, highly chalky, black stain, no show of free oil and faint odor in fresh samples.
- 3322-3345' Limestone, white, gray, finely crystalline, finely oomoldic, scattered inter-crystalline, oomoldic and finely vuggy porosity, golden brown stain, show of free oil and faint odor in fresh samples.
- 3345-3355' Limestone, white, gray, finely crystalline, fair to good inter-crystalline porosity, good stain and saturation, show of free oil and faint to fair odor in fresh samples.

CONGLOMERATE SECTION

- 3366-3391' Chert, peach, orange, gray, amber, opaque, plus white, oolitic, boney/opaque and varied shale.

ARBUCKLE SECTION

- 3391-3410' Dolomite, tan, gray, finely crystalline, faint inter-crystalline porosity, brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #3 3354-3410

Times: 20-20-20-20

Blow: Weak

**Recovery: 10' very slightly oil cut mud
(5% oil; 95% mud)**

**Pressures: ISIP 944 psi
FSIP 939 psi
IFP 14-16 psi
FFP 17-20 psi
HSH 1628-1611 psi**

- 3410-3420' Dolomite, tan, brown fine and medium crystalline, brown stain, show of free oil and faint to fair odor in fresh samples.
- 3420-3440' Dolomite, white, gray, oolitic, sub-oomoldic, trace poor stain, trace of free oil; plus white, gray oolitic chert.

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3440-3460'	Dolomite, white, gray, fine and medium crystalline, sandy; fair porosity, no shows.
3460-3480'	Dolomite, as above, few glauconitic, fair inter-crystalline and vuggy type porosity, no shows.
3480-3500'	Dolomite, as above, plus white boney chert, no shows.

Rotary Total Depth: 3500
Log Total Depth: 3503

Recommendations:

5 ½ production casing was set and cemented on the American Warrior Inc., Tempero #8-23.

Respectfully Submitted,

James C. Musgrove
Petroleum Geologist