

Geological Report

American Warrior, Inc.

Clark #3-2

2165' FSL & 1738' FEL

Sec. 2, T25s, R31w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Clark #3-2
2165' FSL & 1738' FEL
Sec. 2, T25s, R31w
Finney County, Kansas
API # 15-055-22293-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: April 10, 2014

Completion Date: April 20, 2014

Elevation 2828' G.L.
2839' K.B.

Directions: From Garden City Airport. Go SE on Hwy 50 1 mile to Aerodrome Rd. Go 1 ½ miles East on Aerodrome and South on lease road and West into.

Casing: 1679' 8 5/8" #24 Surface Casing
4989' 5 ½" #15.5 Production Casing

Samples: 4500' to RTD 10' Wet & Dry

Drilling Time: 3900' to RTD

Electric Logs: Pioneer Energy Services "D. Kerr"
Stacked-Micro

Drillstem Tests: Two-Trilobite Testing "Ryan Reynolds"

Problems: None

Formation Tops

Clark #3-2

Sec. 2, T25s, R31w

2165' FSL & 1738' FEL

Anhydrite	1863' +976
Base	1965' +874
Heebner	3983' -1144
Lansing	4032' -1193
Stark	4397' -1558
Bkc	4528' -1689
Marmaton	4552' -1713
Pawnee	4625' -1786
Fort Scott	4646' -1807
Cherokee	4653' -1814
Morrow	4820' -1981
Miss	4843' -2004
RTD	5000' -2161
LTD	4999' -2160

Sample Zone Descriptions

Morrow (4820', -1981): Covered in DST #1

Sandstone. Grey/Glauconitic. Fine to medium grain. Well rounded, well sorted. Fair to good stain. Poor to fair saturation. Show of free oil when broken. Fair to good odor. 80 units hotwire.

St. Louis (4843', -2004): Covered in DST #2

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Fair stain and fair saturation in porosity. Slight show of free oil when broken. Fair odor. 90 units hotwire.

Drill Stem Tests
Trilobite Testing
“Ryan Reynolds”

DST #1

Morrow

Interval (4818' – 4847') Anchor 29'

IHP	- 2523 #	
IFP	- 30" – WSB built to 3"	16-18 #
ISI	- 45" – No return	145 #
FFP	- 45" – WSB built to 7"	19-25 #
FSIP	- 45" – No return	112 #
FHP	- 2429 #	
BHT	- 120° F	

Recovery: 180' GIP
30' OCM (7% Oil)

DST #2

St. Louis

Interval (4884' – 4911') Anchor 27'

IHP	- 2585 #	
IFP	- 30" – BOB in 3 min	32-59 #
ISI	- 45" – WSB	1162 #
FFP	- 45" – BOB in 2 min (GTS)	57-91 #
FSIP	- 60" – Built to 5"	1124 #
FHP	- 2481 #	
BHT	- 123° F	

Recovery: 120' Clean Oil Gravity: 37
90' MGCO (40% Oil)

Structural Comparison

	American Warrior, Inc. Clark #3-2 Sec. 2, T25s, R31w 2165' FSL & 1738' FEL		American Warrior, Inc. Clark #1-2 Sec. 2, T25s, R31w 2415' FSL & 1145' FEL		American Warrior, Inc. Clark #2-2 Sec 2, T25s, R31w 1705' FNL & 657' FEL
Formation					
Heebner	3983' -1144	+14	4002' -1158	+18	4021' -1162
Lansing	4032' -1193	+11	4048' -1204	+11	4063' -1204
Stark	4397' -1558	+9	4411' -1567	+4	4421' -1562
BKC	4528' -1689	+7	4540' -1696	FL	4548' -1689
Marmaton	4552' -1713	+7	4564' -1720	-2	4570' -1711
Pawnee	4625' -1786	+5	4635' -1791	-1	4644' -1785
Fort Scott	4646' -1807	+7	4658' -1814	-1	4665' -1806
Cherokee	4653' -1814	+16	4674' -1830	+7	4680' -1821
Morrow	4820' -1981	+4	4829' -1985	-5	4835' -1976
St. Louis	4843' -2004	+10	4858' -2014	+3	4866' -2007

Summary

The location for the Clark #3-2 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, one of which recovered commercial quantities of oil from the St. Louis Limestone formation. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Clark #3-2 well.

Perforations

Primary:

St. Louis (4895' – 4899')

Covered in DST #2

Secondary:

Morrow (4840' – 4842') (FRAC)

Covered in DST #1

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

