Geological Report

American Warrior, Inc.

Katherine #2-19

1802' FNL & 640' FWL

Sec. 19, T24s, R30w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Katherine #2-19 1802' FNL & 640' FWL Sec. 19, T24s, R30w Gray County, Kansas API # 15-069-20478-00-00			
Drilling Contractor:	Duke Drilling Co. Rig #5			
Geologist:	Kevin Timson			
Spud Date:	August 3, 2014			
Completion Date:	August 13, 2014			
Elevation	2880' G.L. 2891' K.B.			
Directions:	From Garden City, Go SE on Hwy 50 to Pole Line Rd. Go East 5 miles to Mennonite Rd. Go South 3/4 mile and East into.			
Casing:	1702' 8 5/8" #24 Surface Casing 5128' 5 ½" #15.5 Production Casing			
Samples:	4600' to RTD 10' Wet & Dry			
Drilling Time:	4000' to RTD			
Electric Logs:	Pioneer Energy Services "J. Henrickson" Full Sweep			
Drillstem Tests:	Two-Trilobite Testing "Matt Smith"			
Problems:	None			

Formation Tops

Katherine #2-19 Sec. 19, T24s, R30w 1802' FNL & 640' FWL

Anhydrite	1967' +924
Base	2040' +851
Heebner	4056' -1165
Lansing	4111' -1220
Stark	4458' -1567
Bkc	4588' -1697
Marmaton	4611' -1720
Pawnee	4690' -1799
Fort Scott	4714' -1823
Cherokee	4726' -1835
Morrow	4878' -1987
Miss	4905' -2014
RTD	5150' -2259
LTD	5152' -2261

Sample Zone Descriptions

St. Louis (4905', -2014): Covered in DST #2

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Poor stain. No saturation. No odor. No show of free oil. 50 unit hotwire.

Morrow (4878', -1987): Covered in DST #1

Sandstone. Grey/slightly glauconitic. Fair to coarse grained. Coarse grain were pyrite cemented. Well rounded. Poor stain. Poor saturation. Poor odor. No show of free oil. 110 unit hotwire.

Drill Stem Tests

Trilobite Testing "Matt Smith"

DST #1 Morrow

Interval (4870' – 4930') Anchor Length 60'

IHP - 2510 #

IFP - 30" – WSB built to 1 ½" 35-67 #
ISI - 30" – No return 1013 #

FFP - 45" – WSB built to 8" 73-98 #

FSIP - 45" – No return 1137 #

FHP - 2478 # BHT - 121° F

Recovery: 20' OCM (5% Oil)

60' GOWCM (30% Oil, 5% Water) 60' GOWCM (35% Oil, 5% Water)

DST #2 St. Louis

Interval (4990' – 5010') Anchor Length 20'

IHP - 2506#

IFP - 30" – WSB 15-23 #

ISI - 30" – No return 1318 #

FFP - 10" – No blow 24-29 #

FSIP - Pull Tool NA

FHP - 2481 #

BHT - 121° F

Recovery: 20' Mud with trace of oil

Structural Comparison

Formation	American Warrior, Inc. Katherine #2-19 Sec. 19, T24s, R30w 1802' FNL & 640' FWL	Sharon Resources Gates #19-1 Sec. 19, T24s, R30w 2100' FNL & 330' FWL			American Warrior, Inc. Irsik-Finney #4-23 Sec 23, T24s, R31w 528' FSL & 2580' FWL	
Heebner	4056' -1165	+9	4056' -1174	-28	4020' -1137	
Lansing	4111' -1220	+8	4110' -1228	-32	4071' -1188	
Stark	4458' -1567	+1	4450' -1568	-25	4425' -1542	
BKC	4588' -1697	+1	4580' -1698	-24	4556' -1673	
Marmaton	4611' -1720	+2	4604' -1722	-27	4576' -1693	
Pawnee	4690' -1799	-2	4679' -1797	-30	4652' -1769	
Fort Scott	4714' -1823	FL	4704' -1823	-28	4678' -1795	
Cherokee	4726' -1835	+2	4719' -1837	-28	4690' -1807	
Morrow	4878' -1987	+3	4871' -1990	-24	4846' -1963	
Miss	4905' -2014	+4	4900' -2018	-17	4880' -1997	

Summary

The location for the Katherine #2-19 well was found via 3-D seismic survey, but moved via geo chem. The new well ran structurally as expected. Two drill stem tests were conducted, one of which recovered commercial quantities of oil from the Morrow Sandstone. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Katherine #2-19 well.

Perforations

Primary: St. Louis (5003' – 5009')

Secondary: Morrow (4899' – 4907')

Respectfully Submitted,

Kevin Timson

American Warrior, Inc.