Geological Report

American Warrior, Inc.
HT #1-18
2300' FSL & 2000' FWL
Sec. 18 T20s R20w
Pawnee County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. HT #1-18 2300' FSL & 2000' FWL Sec. 18 T20s R20w Pawnee County, Kansas API # 15-145-21754-0000
Drilling Contractor:	Petromark Drilling, LLC. Rig #1
Geologist:	Jason T Alm
Spud Date:	April 5, 2014
Completion Date:	April 12, 2014
Elevation:	2226' Ground Level 2220' Kelly Bushing
Directions:	Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 10 mi. South to 30 Rd. East 2 ½ mi. North into location.
Casing:	221' 8 5/8" surface casing 4376' 5 1/2" production casing
Samples:	10' wet and dry, 4000' to RTD
Drilling Time:	3700' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Ray Schwager"
Problems:	None
Remarks:	None

Formation Tops

	American Warrior, Inc.		
	HT #1-18		
	Sec. 18 T20s R20w		
Formation	2300' FSL & 2000' FWL		
Anhydrite	1415', +811		
Base	1440', +786		
Heebner	3731', -1505		
Lansing	3782', -1556		
BKc	4124', -1898		
Pawnee	4256', -2030		
Fort Scott	4280', -2054		
Cherokee	4297', -2071		
Mississippian	4358', -2132		
RTD	4377', -2151		

Sample Zone Descriptions

Mississippian Osage (4358', -2132): Covered in DST #1

 Δ – Dolo – White to clear, mostly fresh, angular with scattered pinpoint vuggy porosity, few large vug cavities, light to fair spotted oil stain in porosity, fair show of free oil on cup, good odor, good yellow fluorescents in dry sample, few pieces of rhombic dolomite with heavy oil show, 100-105 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Ray Schwager"

DST #1 <u>Mississippian Osage</u>

Interval (4362' – 4372') Anchor Length 10'

IHP - 2170 #

IFP - 15" - B.O.B. 4 min. 45-117 #
ISI - 30" - Built to 4 in. 1260 #
FFP - 15" - B.O.B. 7 min. 133-181 #
FSI - 30" - Built to 2 in. 1207 #

FHP - 2150 # BHT - 126°F

Recovery: 475' GIP

330' GCO

124' MGO 55% Oil

Structural Comparison

	American Warrior, Inc.	Smitherman LC & Aledo		Downing-Nelson Oil Co.	
	HT #1-18	Steffen #1		Vandenberg-Saxton #1-18	
	Sec. 18 T20s R20w	Sec. 18 T20s R20w		Sec. 18 T20s R20w	
Formation	2300' FSL & 2000' FWL	2310' FNL & 2310' FEL		2400' FNL & 1660' FEL	
Anhydrite	1415', +811	NA	NA	1404', +823	(-12)
Base	1440', +786	NA	NA	1430', +797	(-11)
Heebner	3731', -1505	3732', -1505	FL	3721', -1494	(-11)
Lansing	3782', -1556	3782', -1555	(-1)	3769', -1542	(-14)
BKc	4124', -1898	NA	NA	NA	NA
Pawnee	4256', -2030	NA	NA	NA	NA
Fort Scott	4280', -2054	NA	NA	4264', -2037	(-17)
Cherokee	4297', -2071	4298', -2071	FL	4279', -2052	(-19)
Mississippian	4358', -2132	4368', -2141	(+9)	4334', -2107	(-25)

Summary

The location for the HT #1-18 was found via 3-D seismic survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the HT #1-18 well.

Recommended Perforations

Mississippian Osage (4358' – 4368') **DST #1**

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.