Geological Report

American Warrior, Inc.
Shank #5-11
950' FNL & 1830' FWL
Sec. 11 T20s R21w
Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Shank #5-11 950' FNL & 1830' FWL Sec. 11 T20s R21w Ness County, Kansas API # 15-135-25835-0000
Drilling Contractor:	Discovery Drilling Rig #3
Geologist:	Jason T Alm
Spud Date:	January 26, 2015
Completion Date:	February 1, 2015
Elevation:	2262' Ground Level 2270' Kelly Bushing
Directions:	Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 8 mi South to 50 Rd. East 1/4 mi, South into location
Casing:	220' 8 5/8" surface casing 4429' 5 1/2" production casing
Samples:	10' wet and dry, 4000' to RTD
Drilling Time:	3700' to RTD
Electric Logs:	None
Drillstem Tests:	Two, Trilobite Testing, Inc. "Cody Bloedorn"
Problems:	Test tool slid to bottom and plugged on DST #1. Tool was out of stage during Initial Shut In for DST #2.
Remarks:	Readings from Initial Shut In for DST #2 are invalid.

Formation Tops

	American Warrior, Inc.		
	Shank #5-11		
	Sec. 11 T20s R21w		
Formation	950' FNL & 1830' FWL		
Anhydrite	1475', +795		
Base	1505', +765		
Heebner	3786', -1516		
Lansing	3831', -1561		
BKc	4169', -1899		
Pawnee	4296', -2026		
Fort Scott	4328', -2058		
Cherokee	4346', -2076		
Mississippian	4414', -2144		
RTD	4430', -2160		

Sample Zone Descriptions

Fort Scott (4328', -2058): Not Tested

Ls – Fine to sub-crystalline with poor pinpoint inter-crystalline porosity. Light brown oil stain with spotted saturation, no show of free oil, light odor, 14 units hotwire.

Mississippian Osage (4414', -2144): Covered in DST #1, 2

 Δ – White, Triptolic, weathered with good vuggy porosity, slightly dolomitic with light spotted oil stain, slight show of free oil on cup, light odor, 15 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Cody Bloedorn"

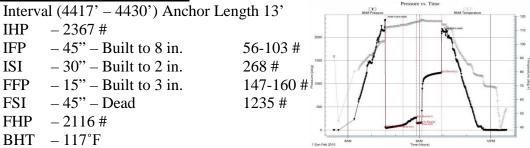
DST #1 Mississippian Osage

Interval (4416' – 4430') Anchor Length 14' IHP -2228 #-05" $-B.O.B.\ 1$ min. IFP 94-108 # - 30" - Dead 1929# ISI FFP -45" – Built to 8 ¼ in. 143-160 # FSI - 45" - Dead 1452# **FHP** -2107 #BHT $-115^{\circ}F$

Recovery: 250' Mud 100% Mud

*Tool slid to bottom, plugged and packers failed. Tool slid again on final flow.

DST #2 Mississippian Osage



Recovery: 10' Clean Oil

102' SOCWM 5% Oil, 25% Water 124' SOCMW 5% Oil, 90% Water 62' SOCWM 5% Oil, 45% Water

^{*}Tool was out of stage causing readings from the Initial Shut In to be invalid.

Structural Comparison

Formation	American Warrior, Inc. Shank #5-11 Sec. 11 T20s R21w 950' FNL & 1830' FWL	American Warrior, Inc. Shank #1-11 Sec. 11 T20s R21w 1250' FNL & 1500' FWL		American Warrior, Inc. Shank #4-11 Sec. 11 T20s R21w 900' FNL & 950' FWL	
Anhydrite	1475', +795	1466', +794	(+1)	1459', +796	(-1)
Base	1505', +765	NA	NA	1492', +763	(+2)
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Heebner	3786', -1516	3776', -1516	FL	3771', -1516	FL
Lansing	3831', -1561	3823', -1563	(+2)	3816', -1561	FL
BKc	4169', -1899	NA	NA	4154', -1899	FL
Pawnee	4296', -2026	4286', -2026	FL	4281', -2026	FL
Fort Scott	4328', -2058	4314', -2054	(-4)	4313', -2058	FL
Cherokee	4346', -2076	4333', -2073	(-3)	4334', -2079	(+3)
Mississippian	4414', -2144	4394', -2134	(-10)	4399', -2144	FL

Summary

The location for the Shank #5-11 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted one of 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 Shank #5-11 well.

Recommended Perforations

Primary:

Mississippian Osage (4414' – 4424') DST #1,2

Before Abandonment:

Fort Scott (4331' – 4335') Not Tested

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.