

Geological Report

American Warrior, Inc.
SNS #2-7
2260' FSL & 600' FWL
Sec. 7 T20s R20w
Pawnee County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
SNS #2-7
2260' FSL & 600' FWL
Sec. 7 T20s R20w
Pawnee County, Kansas
API # 15-145-21780-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: November 11, 2014

Completion Date: November 17, 2014

Elevation: 2230' Ground Level
2238' Kelly Bushing

Directions: Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 8 mi. South to 50 Rd. East 2 mi. to County Line Rd. 3/4 mi. South, East into location.

Casing: 221' 8 5/8" surface casing
4380' 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. "Brennan Lonsdale"

Problems: Tool showed plugging action throughout DST #1

Remarks: Gas Detector was reading the gas lightly throughout the well. Cold weather makes gas detection difficult.

Formation Tops

	American Warrior, Inc. SNS #2-7 Sec. 7 T20s R20w 2260' FSL & 600' FWL
Formation	
Anhydrite	1430', +808
Base	1461', +777
Heebner	3749', -1511
Lansing	3797', -1559
BKc	4132', -1894
Pawnee	4260', -2022
Fort Scott	4286', -2048
Cherokee	4304', -2066
Mississippian	4370', -2132
RTD	4381', -2143

Sample Zone Descriptions

Mississippian Osage (4370', -2132): **Covered in DST #1**

Δ – Dolo – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy triptolic chert, weathered with fair to good vuggy porosity, light to good oil stain and saturation, good show of free oil, good odor, fair to good yellow fluorescents, 10 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc.
 “Brannan Lonsdale”

DST #1

Mississippian Osage

Interval (4371' – 4378') Anchor Length 7'

IHP	– 2190 #	
IFP	– 45” – Built to 3 ¼ in.	30-40 #
ISI	– 45” – Dead	1444 #
FFP	– 45” – Built to 3 ¼ in.	51-55 #
FSI	– 45” – Dead	1386 #
FHP	– 2171 #	
BHT	– 118°F	

Recovery: 15' Clean Oil
 80' SWMCO 55% Oil, 5% Water

Structural Comparison

	American Warrior, Inc. SNS #2-7 Sec. 7 T20s R20w 2260' FSL & 600' FWL	American Energies Corp. Smith A #1 Sec. 7 T20s R20w C NW SW		American Warrior, Inc. SNS #1-7 Sec. 7 T20s R20w 2310' FNL & 1700' FEL	
Formation					
Anhydrite	1430', +808	NA	NA	1437', +804	(+4)
Base	1461', +777	1460', +772	(+5)	1465', +776	(+1)
Heebner	3749', -1511	3744', -1512	(+1)	3755', -1514	(+3)
Lansing	3797', -1559	3793', -1561	(+2)	3806', -1565	(+6)
BKc	4132', -1894	4132', -1900	(+6)	4138', -1897	(+3)
Pawnee	4260', -2022	NA	NA	4266', -2025	(+3)
Fort Scott	4286', -2048	4285', -2053	(+5)	4296', -2055	(+7)
Cherokee	4304', -2066	4303', -2071	(+5)	4311', -2070	(+4)
Mississippian	4370', -2132	4362', -2130	(-2)	4375', -2134	(+2)

Summary

The location for the SNS #2-7 was found via 3-D seismic survey. The new well ran structurally as expected via the 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 1/2 inch production casing to further evaluate the well.

Recommended Perforations

Mississippian Osage

(4370' – 4380')

DST #1

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.