

Geological Report

American Warrior, Inc.

Felder #2-13

335' FSL & 2310' FEL

Sec. 13 T20s R21w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Felder #2-13
335' FSL & 2310' FEL
Sec. 13 T20s R21w
Ness County, Kansas
API # 15-135-25638-0000

Drilling Contractor: Petromark Drilling, LLc Rig #1

Geologist: Jason T Alm

Spud Date: July 19, 2013

Completion Date: July 26, 2013

Elevation: 2229' Ground Level
2235' Kelly Bushing

Directions: Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 10
mi. South to 30 Rd. East 3/4 mi. North into location.

Casing: 222' 8 5/8" surface casing
4396' 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. Felder #2-13 Sec. 13 T20s R21w 335' FSL & 2310' FEL
Formation	
Anhydrite	1440', +795
Base	1468', +767
Heebner	3761', -1526
Lansing	3811', -1576
BKc	4155', -1920
Pawnee	4284', -2049
Fort Scott	4312', -2077
Cherokee	4330', -2095
Mississippian	4384', -2149
RTD	4397', -2162

Sample Zone Descriptions

Mississippian Osage (4384', -2149): **Covered in DST #1**

Δ – Dolo – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy slightly triptolic to triptolic chert, weathered with fair to good vuggy porosity, good to heavy oil stain in vugular cavities, good show of free oil, good odor, fair to good yellow fluorescents, 25-44 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc.
 “Ray Schwager”

DST #1

Mississippian Osage

Interval (4387' – 4395') Anchor Length 8'

IHP	– 2089 #	
IFP	– 10” – B.O.B. 2 min.	135-260 #
ISI	– 30” – Built to ¼ in.	1359 #
FFP	– 10” – B.O.B. 2 min.	299-408 #
FSI	– 30” – Built to ¼ in.	1354 #
FHP	– 2076 #	
BHT	– 128°F	

Recovery:	300' GIP	
	690' GCO	
	62' HO&GCW	40% Oil, 50% Water
	186' O&GCMW	5% Oil, 80% Water

Structural Comparison

	American Warrior, Inc. Felder #2-13 Sec. 13 T20s R21w 335' FSL & 2310' FEL	American Warrior, Inc. Felder #1-13 Sec. 13 T20s R21w 1800' FSL & 560' FEL	American Warrior, Inc. Ochs #1-13 Sec. 13 T20s R21w 990' FSL & 760' FWL
Formation			
Anhydrite	1440', +795	1407', +800	1449', +801
Base	1468', +767	1435', +772	NA
Heebner	3761', -1526	3730', -1523	3776', -1526
Lansing	3811', -1576	3782', -1575	3822', -1572
BKc	4155', -1920	NA	NA
Pawnee	4284', -2049	4250', -2043	4292', -2042
Fort Scott	4312', -2077	4276', -2069	4321', -2071
Cherokee	4330', -2095	4295', -2088	4340', -2090
Mississippian	4384', -2149	4353', -2146	4396', -2146

Summary

The location for the Felder #2-13 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 ½ inch production casing to further evaluate the Felder #2-13 well.

Recommended Perforations

Mississippian

(4384' – 4394')

DST #1

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.