

Geological Report

American Warrior, Inc.

Jenetta #2-14

1448' FSL & 2224' FEL

Sec. 14 T19s R25w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Jenetta #2-14
1448' FSL & 2224' FEL
Sec. 14 T19s R25w
Ness County, Kansas
API # 15-135-25692-0000

Drilling Contractor: Duke Drilling, Inc. Rig #5

Geologist: Jason T Alm

Spud Date: November 4, 2013

Completion Date: November 17, 2013

Elevation: 2383' Ground Level
2394' Kelly Bushing

Directions: Ness City, West on Hwy 96 to L Rd. South 3 ½ mi.
to 95 Rd. West 1 ½ mi. South into location.

Casing: 228' 8 5/8" surface casing
4517' 5 1/2" production casing

Samples: 10' wet and dry, 3750' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "Jared Long"
CNL/CDL, DIL, MEL

Drillstem Tests: Two, Trilobite Testing, Inc. "Bradley Walter"

Problems: Rig got stuck in hole prior to displacement

Remarks: Rig had to wash over 900+ ft. of drill pipe and collars.

Formation Tops

Formation	American Warrior, Inc. Jenetta #2-14 Sec. 14 T19s R25w 1448' FSL & 2224' FEL
Anhydrite	1655', +739
Base	1694', +700
Heebner	3760', -1366
Lansing	3802', -1408
BKc	4148', -1754
Marmaton	4166', -1772
Pawnee	4238', -1844
Fort Scott	4312', -1918
Cherokee	4338', -1944
Mississippian	4414', -2020
RTD	4515', -2121
LTD	4518', -2124

Sample Zone Descriptions

- Fort Scott (4312', -1918):** **Covered in DST #1**
 Ls – Fine crystalline with poor inter-crystalline porosity, light spotted oil stain in porosity, slight show of free oil, very light odor, fair cut fluorescents, 40 units hotwire.
- Miss Warsaw (4414', -2020):** **Covered in DST #2**
 Dolo – Fine to medium crystalline with fair to good vuggy and scattered good inter-crystalline porosity, light to good oil stain and scattered good saturation, good show of free oil, fair odor, bright yellow fluorescents, 55-85 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
"Bradley Walter"

DST #1

Fort Scott

Interval (4290' – 4355') Anchor Length 65'

IHP	– 2164 #	
IFP	– 30" – W.S.B.	23-24 #
ISI	– 30" – Dead	394 #
FFP	– 15" – Dead, Flushed	24-78 #
FHP	– 2135 #	
BHT	– 116°F	

Recovery: 90' Oil Spotted Mud

DST #2

Mississippian Warsaw

Interval (4425' – 4435') Anchor Length 10'

IHP	– 2267 #	
IFP	– 30" – B.O.B. 8 min.	35-153 #
ISI	– 45" – Surface Blow	1196 #
FFP	– 45" – B.O.B. 13 min.	161-245 #
FSI	– 60" – Surface Blow	1141 #
FHP	– 2203 #	
BHT	– 131°F	

Recovery: 180' GIP
570' GSMCO 78% Oil
60' GMCO 50% Oil

Structural Comparison

	American Warrior, Inc. Jenetta #2-14 Sec. 14 T19s R25w 1448' FSL & 2224' FEL	Palomino Petroleum Rebel #1 Sec. 14 T19s R25w 1270' FSL & 960' FWL		F&M Oil Co. Betz A #1 Sec. 23 T19s R25w 330' FNL & 1320' FEL	
Formation					
Anhydrite	1655', +739	1656', +742	(-3)	1638', +743	(-4)
Base	1694', +700	1696', +702	(-2)	1677', +704	(-4)
Heebner	3760', -1366	3752', -1354	(-12)	3759', -1378	(+12)
Lansing	3802', -1408	3794', -1396	(-12)	3800', -1419	(+11)
BKc	4148', -1754	4141', -1743	(-11)	NA	NA
Marmaton	4166', -1772	NA	NA	NA	NA
Pawnee	4238', -1844	4233', -1835	(-9)	4243', -1763	(+19)
Fort Scott	4312', -1918	4305', -1907	(-11)	4320', -1939	(+21)
Cherokee	4338', -1944	4330', -1932	(-12)	4346', -1965	(+21)
Mississippian	4414', -2020	4433', -2035	(+15)	4452', -2071	(+51)

Summary

The location for the Jenetta #2-14 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 Warsaw Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Jenetta #2-14 well.

Recommended Perforations

Mississippian Warsaw:	(4423' – 4429')	DST #1
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.