Geological Report

American Warrior, Inc. Baumgarten Unit #1-24 2550' FSL & 335' FEL Sec. 24 T18s R22w Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Baumgarten Unit #1-24 2550' FSL & 335' FEL Sec. 24 T18s R22w Ness County, Kansas API # 15-135-25676-0000
Drilling Contractor:	Petromark Drilling, LLc. Rig #1
Geologist:	Jason T Alm
Spud Date:	November 22, 2013
Completion Date:	December 1, 2013
Elevation:	2149' Ground Level 2155' Kelly Bushing
Directions:	Bazine KS, at the intersection of Hwy 96 and Austin St. North 1 ¹ / ₂ mi. West into location.
Casing:	227' 8 5/8" surface casing 4245' 5 1/2" production casing
Samples:	10' wet and dry, 3900' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Cornelio Landa III"
Problems:	None
Remarks:	None

	American Warrior, Inc.
	Baumgarten Unit #1-24
	Sec. 24 T18s R22w
Formation	2550' FSL & 335' FEL
Anhydrite	1419', +736
Base	1452', +703
Heebner	3618', -1463
Lansing	3662', -1507
BKc	3976', -1821
Pawnee	4058', -1903
Fort Scott	4134', -1979
Cherokee	4155', -2000
Mississippian	4228', -2073
RTD	4246', -2091

Formation Tops

Sample Zone Descriptions

Mississippian Osage (4228', -2073): Covered in DST #1

Dolo $-\Delta$ – Fine sucrosic crystalline with poor inter-crystalline and vuggy porosity, heavy triptolic chert, weathered with fair to good vuggy porosity, light to good oil stain and saturation, fair show of free oil, good odor, good yellow fluorescents, 30-40 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Cornelio Landa III"

DST #1	Mississippia Interval (423)			
	ISI – 45"	- B.O.B. 27 m - W.S.B. - B.O.B. 37 m - W.S.B. 1 #		32-86 # 960 # 90-113 # 829 #
	Recovery:	190' GIP 212' GCO 63' GMCO	Gravity 43° API 60% Oil	

Structural Comparison

	American Warrior, Inc.	Galloway Drilling Co.		Mack Oil Co.	
	Baumgarten Unit #1-24	Roth #1		Roth #1	
	Sec. 24 T18s R22w	Sec. 24 T18s R22w		Sec. 19 T18s R21w	
Formation	2550' FSL & 335' FEL	1980' FSL & 660' FEL		2310' FNL & 500' FWL	
Anhydrite	1419', +736	1417', +740	(-4)	1416', +734	(+2)
Base	1452', +703	NA	NA	NA	NA
Heebner	3618', -1463	3620', -1463	FL	NA	NA
Lansing	3662', -1507	3666', -1509	(+2)	3664', -1505	(-2)
BKc	3976', -1821	NA	NA	NA	NA
Pawnee	4058', -1903	NA	NA	4068', -1909	(+6)
Fort Scott	4134', -1979	4142', -1985	(+6)	4142', -1983	(+4)
Cherokee	4155', -2000	4165', -2008	(+8)	NA	NA
Mississippian	4228', -2073	4235', -2078	(+5)	4239', -2080	(+7)

Summary

The location for the Baumgarten Unit #1-24 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 $5\frac{1}{2}$ inch production casing to further evaluate the Baumgarten Unit #1-24 well.

Recommended Perforations

Mississippian Osage (4228' – 4244') DST #1

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.