Geological Report

American Warrior, Inc. **Ryersee #2-36** 1550' FNL & 455' FWL Sec. 36 T18s R21w Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Ryersee #2-36 1550' FNL & 455' FWL Sec. 36 T18s R21w Ness County, Kansas API # 15-135-25650-0000
Drilling Contractor:	Discovery Drilling Co., Inc. Rig #3
Geologist:	Jason T Alm
Spud Date:	August 17, 2013
Completion Date:	August 24, 2013
Elevation:	2136' Ground Level 2144' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 4 ½ mi. South thru cattle guard 1 ¼ mi. East into location.
Casing:	221' 8 5/8" surface casing4208' 5 1/2" production casing
Samples:	10' wet and dry, 3900' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log-Tech, Inc. "Jarrod Long" CNL/CDL, DIL
Drillstem Tests:	None
Problems:	None
Remarks:	None

	American Warrior, Inc.		
	Ryersee #2-36		
	Sec. 36 T18s R21w		
Formation	1550' FNL & 455' FWL		
Anhydrite	1349', +795		
Base	1381', +763		
Heebner	3598', -1454		
Lansing	3640', -1496		
BKc	3957', -1813		
Pawnee	4055', -1911		
Fort Scott	4105', -1961		
Cherokee	4120', -1976		
Mississippian	4197', -2053		
RTD	4208', -2064		
LTD	4209', -2065		

Formation Tops

Sample Zone Descriptions

Cherokee "A" Sand (4134', -1990): Not Tested

SS – Quartz, clear, fine grained, well sorted fair to poorly cemented, sub-rounded with poor to fair inter-granular porosity, light spotted oil stain in cluster, slight show of free oil, no odor, fair cut fluorescents, 10 units hotwire.

Cherokee "B" Sand (4148', -2004): Not Tested

SS – Quartz, clear to slightly frosted, fine to medium grained, poorly sorted, poorly cemented, sub-rounded with fair to good inter-granular porosity, light to fair oil stain and saturation in cluster, fair show of free oil, light odor, fair to good cut fluorescents, very friable, 50 units hotwire.

Mississippian Osage (4197', -2053'): Not Tested

 Δ – Dolo – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy triptolic chert, weathered with good vuggy porosity, light to fair oil stain and saturation in porosity, fair show of free oil, good odor, bright yellow fluorescents, 60 units hotwire.

Structural Comparison

	American Warrior, Inc.	John Jay Darrah Jr.	American Warrior, Inc.		
	Ryersee #2-36	Ryersee #G	Ryersee #1-36		
	Sec. 36 T18s R21w	Sec. 36 T18s R21w	R21w Sec. 36 T18s R21w		
Formation	1550' FNL & 455' FWL	3960' FSL & 4850' FEL		2560' FSL & 335' FWL	
Anhydrite	1349', +795	1352', +797	(-2)	1368', +782	(+7)
Base	1381', +763	1380', +769	(-6)	1400', +750	(+13)
Heebner	3598', -1454	3602', -1453	(-1)	3610', -1460	(+6)
Lansing	3640', -1496	3644', -1495	(-1)	3654', -1504	(+8)
BKc	3957', -1813	NA	NA	3969', -1819	(+6)
Pawnee	4055', -1911	NA	NA	4066', -1916	(+5)
Fort Scott	4105', -1961	4108', -1959	(-2)	4116', -1966	(+5)
Cherokee	4120', -1976	4122', -1973	(-3)	4131', -1981	(+5)
Mississippian	4197', -2053	4213', -2064	(+11)	4208', -2058	(+5)

Summary

The location for the Ryersee #2-36 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. No drill stem tests were conducted but commercial oil shows were encountered in the Cherokee Sands and the Mississippian Osage Formations. After all gathered data had been examined the decision was made to run $5\frac{1}{2}$ inch production casing to further evaluate the Ryersee #2-36 well.

Recommended Perforations

Primary: Mississippian Osage	(4197' – 4207')	Not Tested
Secondary: Cherokee "B" Sand	(4148' – 4157')	Not Tested
Before Abandonment: Cherokee "A" Sand	(4134' – 4137')	Not Tested

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.