Geological Report

American Warrior, Inc. Marlin #1-32 2290' FNL & 1610' FEL Sec. 32 T18s R21w Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Marlin #1-32 2290' FNL & 1610' FEL Sec. 32 T18s R21w Ness County, Kansas API # 15-135-25801-0000
Drilling Contractor:	Discovery Drilling Co. Inc. Rig #3
Geologist:	Jason T Alm
Spud Date:	September 8, 2014
Completion Date:	September 14, 2014
Elevation:	2151' Ground Level 2159' Kelly Bushing
Directions:	Bazine KS, South 2 mi. to 110 rd. East 1 mi. to EE rd. North 1 ¹ / ₂ mi. to 125 rd. East ³ / ₄ mi, North into location.
Casing:	221' 8 5/8" surface casing 4264' 5 1/2" production casing
Samples:	10' wet and dry, 3900' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	None
Drillstem Tests:	Two, Trilobite Testing, Inc. "Cody Bloedorn"
Problems:	Tool was plugged throughout DST #1
Remarks:	DST #1 was inconclusive due to tool plugging

	American Warrior, Inc.		
	Marlin #1-32		
	Sec. 32 T18s R21w		
Formation	2290' FNL & 1610' FEL		
Anhydrite	1391', +768		
Base	1422', +737		
Heebner	3623', -1464		
Lansing	3671', -1512		
ВКс	3993', -1834		
Pawnee	4074', -1915		
Fort Scott	4149', -1990		
Cherokee	4164', -2005		
Mississippian	4239', -2080		
Osage	4247', -2088		
RTD	4265', -2106		

Formation Tops

Sample Zone Descriptions

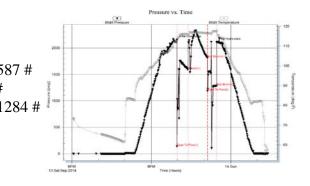
Fort Scott(4149', -1990):Not TestedLs – Fine to sub-crystalline with scattered poor inter-crystalline
porosity, light to fair scattered oil stain in porosity, very slight
show of free oil, no odor, good yellow fluorescents, 50 units
hotwire.

Mississippian Osage (4247', -2088): Covered in DST #1,2 Dolo $-\Delta$ – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy triptolitic chert, weathered with good vuggy porosity, few pieces granular chert with excellent inter-granular and vuggy porosity, light to good oil stain and saturation, good show of free oil, good odor, bright yellow fluorescents, 330 units hotwire.

Drill Stem Tests

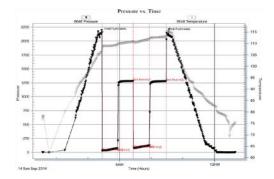
Trilobite Testing, Inc. "Cody Bloedorn"

DST #	1 Mississippian Osag	ge
Interva	al (4248' – 4258') Anchor Le	ength 10'
IHP	- 2149 #	
IFP	-30 " – Built to 1 $\frac{1}{2}$ in.	137-15
ISI	– 30" – Dead	1814 #
FFP	– 10" – Dead	1187-12
FHP	- 2102 #	
BHT	– 117°F	



Recovery: 63' Mud Test Tool was plugged throughout

Interval (4249' – 4260') Anchor Length 11'			
IHP	- 2154 #		
IFP	– 30" – B.O.B. 14 min.	28-73 #	
ISI	-30 " – Built to $\frac{1}{2}$ in.	1283 #	
FFP	– 30" – B.O.B. 21 min.	79-123 #	
FSI	– 30" – W.S.B.	1279 #	
FHP	- 2148 #		
BHT	– 113°F		



Recovery:	248' GIP	
	217' GCO	60% Oil
	62' GSOCM	10% Oil, 70% Mud

Structural Comparison

	American Warrior, Inc. Marlin #1-32	DNB Drilling, Inc.DNB Drilling, Inc.Schniepp #2Schniepp B #4			
F 4 *	Sec. 32 T18s R21w	Sec. 32 T18s R21w Sec. 32 T18s R21w			
Formation	2290' FNL & 1610' FEL	C S/2 NE/4		SE SE NE	
Anhydrite	1391', +768	1356', +772	(-4)	1342', +779	(-11)
Base	1422', +737	NA	NA	NA	NA
Heebner	3623', -1464	3596', -1468	(+4)	3580', -1459	(-5)
Lansing	3671', -1512	3644', -1516	(+4)	3626', -1505	(-7)
BKc	3993', -1834	3968', -1840	(+6)	NA	NA
Pawnee	4074', -1915	4046', -1918	(+3)	NA	NA
Fort Scott	4149', -1990	4124', -1996	(+6)	4113', -1992	(+2)
Cherokee	4164', -2005	4140', -2012	(+7)	NA	NA
Mississippian	4239', -2080	4206', -2078	(-2)	4214', -2093	(+13)
Osage	4247', -2088	4222', -2094	(+6)	NA	NA

Summary

The location for the Marlin #1-32 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 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 Marlin #1-32 well.

Recommended Perforations

Primary: Mississippian Osage	(4247' – 4257')	DST #1,2
Before Abandonment: Fort Scott	(4151' – 4156')	Not Tested

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.