

# **Geological Report**

American Warrior, Inc.

**MMH #1-25**

2170' FNL & 590' FEL

Sec. 25 T20s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
MMH #1-25  
2170' FNL & 590' FEL  
Sec. 25 T20s R21w  
Ness County, Kansas  
API # 15-135-25745-0000

Drilling Contractor: Petromark Drilling, LLC. Rig #1

Geologist: Jason T Alm

Spud Date: March 27, 2014

Completion Date: April 4, 2014

Elevation: 2222' Ground Level  
2228' Kelly Bushing

Directions: Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 10 mi. South to 30 Rd. East 2 mi. to County Line Rd. 1 ½ mi. South, West into location.

Casing: 222' 8 5/8" surface casing

Samples: 10' wet and dry, 4000' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: Two, Trilobite Testing, Inc. "Phillip Gage, Brannan Lonsdale"

Problems: DST #2 was pulled early due to a lack of time.

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b>
	<b>MMH #1-25</b>
	<b>Sec. 25 T20s R21w</b>
	<b>2170' FNL &amp; 590' FEL</b>
<b>Formation</b>	
Anhydrite	<b>1408', +820</b>
Base	<b>1437', +791</b>
Heebner	<b>3740', -1512</b>
Lansing	<b>3792', -1564</b>
BKc	<b>4140', -1912</b>
Pawnee	<b>4278', -2050</b>
Fort Scott	<b>4304', -2076</b>
Cherokee	<b>4322', -2094</b>
Mississippian	<b>4391', -2163</b>
RTD	<b>4401', -2173</b>

## Sample Zone Descriptions

### **Mississippian Osage (4391', -2163): Covered in DST #1,2**

Δ – White to Clear, angular in part. Mostly fresh with scatted good vuggy porosity, light to fair spotted oil stain in porosity, slight show of free oil, light odor, dull scattered fluorescents. 10 units hotwire.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
“Phillip Gage, Brannan Lonsdale”

**DST #1**

**Mississippian Osage**

Interval (4345' – 4396') Anchor Length 51'

IHP	– 2241 #	
IFP	– 45" – Built to 5 ¾ in.	38-93 #
ISI	– 45" – Dead	1214 #
FFP	– 45" – Built to 4 ¼ in.	100-117 #
FSI	– 45" – Dead	1196 #
FHP	– 2178 #	
BHT	– 116°F	

Recovery:	30' OCM	30% Oil
	63' SOCM	5% Oil
	60' SOWCM	5% Oil, 5% Water
	60' WCM	10% Water

**DST #2**

**Mississippian Osage**

Interval (4394' – 4401') Anchor Length 7'

IHP	– 2260 #	
IFP	– 30" – B.O.B. 16 min.	43-122 #
ISI	– 30" – W.S.B.	1242 #
FFP	– 30" – B.O.B. 21 min.	138-197 #
FHP	– 2229 #	
BHT	– 125°F	

Recovery:	10' CO	
	400' MW	70% Water

## Structural Comparison

	American Warrior, Inc. MMH #1-25 Sec. 25 T20s R21w 2170' FNL & 590' FEL	D R Lauck Oil Co. Inc. Martin #1 Sec. 25 T20s R21w C NE NE		Cities Service Oil Co. Martin C #1 Sec. 25 T20s R21w C NW SE	
<b>Formation</b>					
Anhydrite	<b>1408', +820</b>	NA	<b>NA</b>	NA	<b>NA</b>
Base	<b>1437', +791</b>	NA	<b>NA</b>	NA	<b>NA</b>
Heebner	<b>3740', -1512</b>	3716', -1510	<b>(-2)</b>	3743', -1504	<b>(-8)</b>
Lansing	<b>3792', -1564</b>	3768', -1562	<b>(-2)</b>	3792', -1553	<b>(-11)</b>
BKc	<b>4140', -1912</b>	NA	<b>NA</b>	NA	<b>NA</b>
Pawnee	<b>4278', -2050</b>	NA	<b>NA</b>	NA	<b>NA</b>
Fort Scott	<b>4304', -2076</b>	4282', -2076	<b>FL</b>	4298', -2059	<b>(-17)</b>
Cherokee	<b>4322', -2094</b>	4295', -2089	<b>(-5)</b>	4320', -2081	<b>(-13)</b>
Mississippian	<b>4391', -2163</b>	4347', -2141	<b>(-22)</b>	4356', -2117	<b>(-46)</b>

## Summary

The location for the MMH #1-25 was found via 3-D seismic survey. The new well ran structurally as expected via the survey on all datums except for the Mississippian. Two Drill Stem Tests were conducted, both were negative. After all gathered data had been examined the decision was made to plug and abandon the MMH #1-25 well.

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.