

# **Geological Report**

American Warrior, Inc.

**Van #1-28**

1560' FSL & 1960' FWL

Sec. 28 T20s R22w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Van #1-28  
1560' FSL & 1960' FWL  
Sec. 28 T20s R22w  
Ness County, Kansas  
API # 15-135-25984-0000

Drilling Contractor: Discovery Drilling Rig #4

Geologist: Jason T Alm

Spud Date: December 1, 2017

Completion Date: December 8, 2017

Elevation: 2178' Ground Level  
2186' Kelly Bushing

Directions: Bazine KS, South 11 mi. to 20 rd. West 4 mi. to Z rd. South 1 mi. to 10 rd. East ½ mi. North into location.

Casing: 213' 8 5/8" surface casing

Samples: 10' wet and dry, 3950' to RTD

Drilling Time: 3650' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Ken Swinney"

Problems: Cedar Hills flowed water shortly after being drilled. Rig had to weight up their mud throughout the well. Bottom Packer Failed on DST #1.

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> Van #1-28 Sec. 28 T20s R22w 1560' FSL & 1960' FWL
<b>Formation</b>	
Anhydrite	<b>1404' +782</b>
Base	<b>1439' +747</b>
Heebner	<b>3683' -1497</b>
Lansing	<b>3732' -1546</b>
BKC	<b>4058' -1872</b>
Pawnee	<b>4180' -1994</b>
Fort Scott	<b>4253' -2067</b>
Cherokee	<b>4277' -2091</b>
Mississippian	<b>4244' -2158</b>
Osage	<b>4363' -2177</b>
RTD	<b>4370' -2184</b>

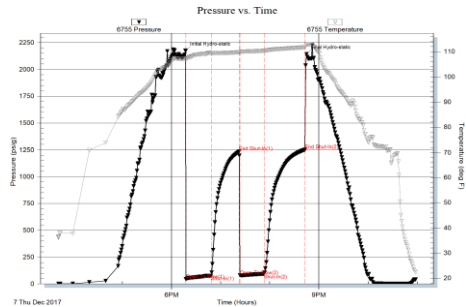
## Sample Zone Descriptions

- Fort Scott (4180' -1994):**      **Covered in DST #1**  
 Ls – Fine crystalline with fair to scattered good inter-crystalline and scattered pinpoint vuggy porosity, light to fair oil stain with light saturation, slight show of free oil, good odor, bright yellow fluorescents, 121 units hotwire.
- Mississippian Osage (4363' -2177):**      **Not Tested**  
 Δ – White to clear, angular, mostly fresh with visual pinpoint vuggy porosity, barren, slightly dolomitic, light “sour” odor, no fluorescents.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Ken Swinney"

**DST #1 Fort Scott**

Interval (4230' – 4275') Anchor Length 45'  
 IHP – 2171 #  
 IFP – 30" – W.S.B. 44-77 #  
 ISI – 30" – Dead 1237 #  
 FFP – 30" – W.S.B. 81-94 #  
 FSI – 45" – Dead 1253 #  
 FHP – 2141 #  
 BHT – 112°F



Recovery: 120' Mud w/ a show of oil

**Structural Comparison**

	American Warrior, Inc. Van #1-28 Sec. 28 T20s R22w 1560' FSL & 1960' FWL	Theodore Leben Mcfadden #1 Sec. 28 T20s R22w C NE SW		Montgomery Drilling Mcfadden #1 Sec. 28 T20s R22w C SE SW	
<b>Formation</b>					
Anhydrite	<b>1404' +782</b>	1400' +785	<b>(-3)</b>	1398' +787	<b>(-5)</b>
Base	<b>1439' +747</b>	NA	<b>NA</b>	NA	<b>NA</b>
Heebner	<b>3683' -1497</b>	3679' -1494	<b>(-3)</b>	3682' -1497	<b>FL</b>
Lansing	<b>3732' -1546</b>	3728' -1543	<b>(-3)</b>	3732' -1547	<b>(+1)</b>
BKC	<b>4058' -1872</b>	NA	<b>NA</b>	4060' -1875	<b>(+3)</b>
Pawnee	<b>4180' -1994</b>	NA	<b>NA</b>	NA	<b>NA</b>
Fort Scott	<b>4253' -2067</b>	4250' -2065	<b>(-2)</b>	4254' -2069	<b>(+2)</b>
Cherokee	<b>4277' -2091</b>	4273' -2088	<b>(-3)</b>	4278' -2093	<b>(+2)</b>
Mississippian	<b>4244' -2158</b>	4336' -2151	<b>(-7)</b>	4326' -2141	<b>(-17)</b>
Osage	<b>4363' -2177</b>	4347' -2162	<b>(-15)</b>	4372' -2187	<b>(+10)</b>

**Summary**

The location for the Van #1-28 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which was negative. After all gathered data had been examined the decision was made to plug and abandon the Van #1-28 well.

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.