

# **Geological Report**

American Warrior Inc.  
**Nuss #3-11**  
335' FNL & 1100' FEL  
Sec. 11 T21s R25w  
Hodgeman County, Kansas



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**American Warrior, Inc.**

## **General Data**

Well Data: American Warrior, Inc.  
Nuss #3-11  
335' FNL & 1100' FEL  
Sec. 11 T21s R25w  
Hodgeman County, Kansas  
API # 15-083-21675-0000

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Jason Alm, Harley Sayles

Spud Date: October 5, 2010

Completion Date: October 13, 2010

Elevation: 2321' Ground Level  
2332' Kelly Bushing

Directions: Jetmore KS, North on Hwy 283 to X rd. West on X  
rd 8 mi. South into location

Casing: 220' 8 5/8" 23# surface casing with 150 sacks  
4539' 5 1/2" 15.5# production casing with 125  
sacks EA-2

Samples: 10' wet and dry, 3700' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Dual Induction, Microresistivity, Dual  
Compensated Porosity

Drillstem Tests: One, Trilobite Testing, Inc. "Dan Bangle"

Problems: None

Remarks: An 11.5% drop in shut-in pressures was noted.

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## Formation Tops

	American Warrior, Inc. Nuss #3-11 Sec. 11 T21s R25w 335' FNL & 1100' FEL
<b>Formation</b>	
Anhydrite	1583', +749
Base	1625', +707
Heebner	3770', -1438
Lansing	3812', -1480
Stark	4080', -1748
BKc	4177', -1845
Marmaton	4200', -1868
Pawnee	4293', -1961
Fort Scott	4340', -2008
Cherokee	4364', -2032
Mississippian	4443', -2111
Osage	4540', -2208
RTD	4487', -2132

## Sample Zone Descriptions

### Mississippian Warsaw

(4443', -2111): Covered in DST #1  
Dolo – Off white, fine crystalline with poor inter-crystalline and poor to fair vuggy porosity, fair to good oil stain with scattered light saturation, fair show of free oil, light odor, fair yellow fluorescence.

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**Drill Stem Tests**  
Trilobite Testing Inc.  
"Dan Bangle"

**DST #1**

**Mississippian Warsaw**

Interval (4454' – 4467') Anchor Length 13'

IHP	– 2318 #	
IFP	– 45" – Built to 4 in.	22-61 #
ISI	– 45" –	907 #
FFP	– 45" – Weak steady surface blow	66-90 #
FSI	– 45" –	802 #
FHP	– 2229 #	
BHT	– 121°F	

Recovery: 130' CO  
60' HOCM 40% Oil

**Structural Comparison**

Formation	American Warrior, Inc. Nuss #3-11 Sec. 11 T21s R25w 335' FNL & 1100' FEL	American Warrior, Inc. Grass C #1 Sec. 11 T21s R25w 3040' FSL & 2230' FEL		American Warrior, Inc. Nuss #2-11 Sec. 11 T21s R25w 1300' FSL & 335' FEL	
Anhydrite	1583', +749	1560', +746	(+3)	1552', +758	(-9)
Base	1625', +707	1600', +706	(+1)	1592', +718	(-11)
Heebner	3770', -1438	3748', -1442	(+4)	3736', -1426	(-12)
Lansing	3812', -1480	3792', -1486	(+6)	3778', -1468	(-12)
Stark	4080', -1748	4101', -1795	(+47)	4050', -1740	(-8)
BKc	4177', -1845	4182', -1876	(+31)	4146', -1836	(-9)
Marmaton	4200', -1868	4204', -1898	(+30)	4167', -1857	(-11)
Pawnee	4293', -1961	4279', -1973	(+12)	4260', -1950	(-11)
Fort Scott	4340', -2008	4319', -2013	(+5)	4307', -1997	(-11)
Cherokee	4364', -2032	4343', -2037	(+5)	4330', -2020	(-12)
Mississippian	4443', -2111	4422', -2116	(+5)	4410', -2100	(-11)
RTD	4540', -2208	4438', -2132		4484', -2174	

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## **Summary**

The location for the Nuss #3-11 well 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 Warsaw Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Nuss #3-11 well.

## **Recommended Perforations**

**Mississippian:** (4454' – 4460') **DST #1**

**Perf and Squeeze:** (4470' – 4471')

Respectfully Submitted,

Harley K. Sayles  
American Warrior Inc.

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