

# **Geological Report**

American Warrior, Inc.

## **Whipple D #1-8**

1249' FSL & 371' FEL

Sec 8, T18s, R26w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Whipple D #1-8  
1249' FSL & 371' FEL  
Sec. 8, T18s, R26w  
Ness County, Kansas  
API # 15-135-25823-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: October 25, 2014

Completion Date: November 3, 2014

Elevation 2581' G.L.  
2592' K.B.

Directions: From Ness City, KS go west on Highway 96 15 miles to Beeler, KS. West side of Beeler, turn North on Road C. Go 3.2 miles to gate with white panels and cattle guard. Follow Lease road in approx. 0.5 miles.

Casing: 230' #28 Surface Casing

Samples: 3800' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "D. Kerr"  
Stacked Micro

Drillstem Tests: Three-Trilobite Testing "Will MacLean"

Problems: None encountered

## Formation Tops

Whipple D #1-8

Sec. 8, T18s, R26w

1249' FSL & 371' FEL

Anhydrite	1953' +639
Base	1985' +607
Heebner	3882' -1290
Lansing	3922' -1330
Stark	4176' -1584
Bkc	4248' -1656
Marmaton	4257' -1665
Pawnee	4385' -1793
Fort Scott	4439' -1847
Cherokee	4462' -1870
Morrow	N/A
Miss	4535' -1943
RTD	4700' -2108
LTD	4702' -2110

### Sample Zone Descriptions

**Marmaton** (4340', -1748): Covered in DST #1  
Limestone, white/tan, fine crystalline, poor/fair inter-crystalline porosity, poor saturation, poor stain, very slight odor, poor/fair show of free oil. 50 unit gas kick.

**Marmaton** (4357', -1765): Covered in DST #2  
Limestone, tan, fine crystalline, poor inter-crystalline porosity, poor saturation/stain, slight odor, poor/fair show free oil, 20 unit gas kick.

**Mississippian** (4566', -1955): Covered in DST #3  
Dolomite, brown, fine crystalline, sucrosic, fair inter-crystalline porosity, very strong odor, poor saturation, poor show of free oil, Gas Kick 310 units.

## Drill Stem Tests

Trilobite Testing

“Will MacLean”

### DST #1

#### Marmaton

Interval (4276' - 4340') Anchor Length 64'

IHP - 2095 #

IFP - 30" – WSB 1/2" 70-72 #

ISI - 30" – No Return 72-198 #

FFP - 10" – No Blow 73-74 #

FSIP - Pull Tool

FHP - 1983 #

BHT - 118° F

Recovery: 64' WCM

### DST #2

#### Marmaton

Interval (4333'-4357') Anchor Length 24'

IHP - 2132 #

IFP - 30" – WSB ¼" 16-17 #

ISI - 30" – No return 114 #

FFP - 10" – No blow 18 #

FSIP - Pull Tool NA

FHP - 2093 #

BHT - 116° F

Recovery: 2' Mud

### DST #3

#### Mississippian

Interval (4486'-4566') Anchor Length 80'

IHP - 2216 #

IFP - 30" – BOB in 3 3/4 min 103-399 #

ISI - 45" – No Return 399-1132 #

FFP - 45" – BOB in 5 min 416-663 #

FSIP - 60" – No Return 663-1137#

FHP - 2187 #

BHT - 127° F

Recovery: 564' GMCW

315' GWCM w/ Oil spots

554' GWCM w/ skim of Oil

## Structural Comparison

	American Warrior, Inc. Whipple D #1-8 Sec. 8, T18s, R26w 1249' FSL & 371' FEL	American Warrior, Inc. Whipple C- #4 Sec. 8, T18s, R26w 1454' FNL & 1417' FEL	Arrowstone Petroleum Co. Whipple #1-9 Sec. 9, T18s, R26w 1650' FSL & 330' FEL
<b>Formation</b>			
Heebner	<b>3882' -1290</b>	<b>-8</b> 3803' -1282	<b>+14</b> 3937' -1304
Lansing	<b>3922' -1330</b>	<b>-7</b> 3844' -1323	<b>+14</b> 3977' -1344
Stark	<b>4176' -1584</b>	<b>-9</b> 4096' -1575	<b>+14</b> 4231' -1598
BKC	<b>4248' -1656</b>	<b>-10</b> 4167' - 1646	<b>+16</b> 4305' -1672
Marmaton	<b>4257' -1665</b>	<b>-11</b> 4175' -1654	<b>+15</b> 4313' -1680
Pawnee	<b>4385' -1793</b>	<b>-13</b> 4301' -1780	<b>+10</b> 4436' -1803
Fort Scott	<b>4439' -1847</b>	<b>-11</b> 4357' -1836	<b>+16</b> 4496' -1863
Cherokee	<b>4462' -1870</b>	<b>-11</b> 4380' -1859	<b>+16</b> 4519' -1886
Miss	<b>4535' -1943</b>	<b>0</b> 4464' -1943	<b>+12</b> 4588' -1955

### Summary

The location for the Whipple D #1-8 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to plug and abandon the Whipple D #1-8 well.

Respectfully Submitted,

Luke Thompson  
American Warrior, Inc.