

# **Geological Report**

American Warrior, Inc.

## **Timothy #1-22**

676' FSL & 2283' FEL

Sec 22, T22s, R34w

Finney County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Timothy #1-22  
676' FSL & 2283' FEL  
Sec. 22, T22s, R34w  
Finney County, Kansas  
API # 15-055-22391-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: March 4, 2015

Completion Date: March 15, 2015

Elevation 2934' G.L.  
2945' K.B.

Directions: From the NW side of Holcomb, KS at the intersection of Hwy 50 and Big Lowe Rd, go north 8 miles to Miller Rd, go west 2.5 miles to lease Rd, north into.

Casing: 1755' 8 5/8" #24 Surface Casing

Samples: 3800' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"  
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Brandon Turley"

Problems: none encountered

## Formation Tops

Timothy #1-22

Sec. 22, T22s, R34w

676' FSL & 2283' FEL

Anhydrite	1950' +995
Base	2006' +939
Heebner	3802' -857
Lansing	3861' -916
Stark	4201' -1256
Bkc	4333' -1388
Marmaton	4364' -1419
Pawnee	4440' -1495
Fort Scott	4467' -1522
Cherokee	4480' -1535
Morrow	4700' -1755
Miss	4868' -1923
RTD	5000' -2055
LTD	4999' -2054

### Sample Zone Descriptions

**Marmaton** (4390', -1445): Covered in DST #1

Limestone, tan, chalky, oolitic packstone, poor oolitic porosity, slight odor, slight show of free oil when broke. Gas kick 120 units hotwire.

**Morrow** (4780', -1835): Covered in DST #2

Sandstone, grey, very fine grain, sub round, fair sorting, medium consolidation, poor inter crystalline porosity, slight odor, slight show of free oil when broke, poor saturation. Gas kick 30 units hotwire.

**Pawnee** (4450', -1505): Covered in DST #3

Limestone, cream, sub crystalline, chalky, mudstone, scattered pinpoint vuggy porosity, slight odor, no show of free oil. Gas kick 40 units hotwire.

**Drill Stem Tests**  
Trilobite Testing  
“Brandon Turley”

**DST #1**

**Marmaton**

Interval (4332' – 4403') Anchor Length 71'

IHP - 2154 #  
IFP - 30" – WSB died in 6 min 18-22 #  
ISI - 30" – No return 397 #  
FFP - 10" – No blow 22-24 #  
FSIP - Pulled tool N/A  
FHP - 2121 #  
BHT - 107° F

**Recovery:** 5' M

**DST #2**

**Morrow**

Interval (4667' - 4890') Anchor Length 223'

IHP - 2429 #  
IFP - 10" – BOB 1 min 1043-1084 #  
ISI - 15" – No return 1189 #  
FFP - 10" – BOB 1 ½ min 1046-1059 #  
FSIP - 30" – No return 1176 #  
FHP - 2325#  
BHT - 115° F

**Recovery:** 1240' W  
620' MCW

**DST #3**

**Pawnee**

Interval (4432' – 4455') Anchor Length 23' Tail Pipe 545'

IHP - 2300 #  
IFP - 30" – ¼" blow died in 19 min 22-27 #  
ISI - 30" – No return 1044 #  
FFP - 10" – No blow 29-31 #  
FSIP - Pulled Tool N/A  
FHP - 2232 #  
BHT - 109 ° F

**Recovery:** 5' M

## Structural Comparison

	American Warrior, Inc. Timothy #1-22 Sec. 22, T22s, R34w 676' FSL & 2283' FEL		American Warrior, Inc. Six M #1-23 Sec. 23, T22s, R34w 2309' FNL & 1345' FWL		Sonat Exploration Co. Six M Farms #1-23 Sec. 23, T22s, R34w 1650' FNL & 2000' FWL
<b>Formation</b>					
Heebner	3802' -857	+28	3827' -885	+21	3811' -878
Lansing	3861' -916	+30	3888' -946	+23	3872' -939
Stark	4201' -1256	+21	4219' -1277	+18	4207' -1274
BKC	4333' -1388	+21	4351' -1409	+19	4340' -1407
Marmaton	4364' -1419	+15	4376' -1434	+13	4365' -1432
Pawnee	4440' -1495	+36	4473' -1531	+28	4456' -1523
Fort Scott	4467' -1522	+38	4502' -1560	+31	4486' -1553
Cherokee	4480' -1535	+35	4512' -1570	+28	4496' -1563
Morrow	4700' -1755	+16	4716' -1774	+11	4699' -1766
Miss	4868' -1923	-45	4820' -1878	-64	4792' -1859

## Summary

The location for the Timothy #1-22 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 Timothy #1-22.

Respectfully Submitted,

Lukas Thompson  
American Warrior, Inc.

