

# **Geological Report**

American Warrior, Inc.

**Lee A #6-28**

381' FSL & 335' FWL

Sec 28, T25s, R36w

Kearny County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Lee A #6-28  
381' FSL & 335' FWL  
Sec. 28, T25s, R36w  
Kearny County, Kansas  
API # 15-093-21952-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: January 12, 2017

Completion Date: January 26, 2017

Elevation 3045' G.L.  
3056' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 7.2 miles South on Hwy 25 to RD. R – Now go South on Rd. R – East into

Casing: 1817' 8 5/8" #23 Surface Casing  
5041' 5 1/2" #17 Production Casing

Samples: 3600' to RTD 10' Wet & Dry

Drilling Time: 3500' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"  
Stack Micro

Drillstem Tests: Five-Trilobite Testing "Bradley Walter"

Problems: none encountered

# Formation Tops

Lee A #6-28

Sec. 28, T25s, R36w

381' FSL & 335' FWL

|                   |                    |
|-------------------|--------------------|
| <b>Heebner</b>    | <b>3658' -602</b>  |
| <b>Toronto</b>    | <b>3671' -615</b>  |
| <b>Lansing</b>    | <b>3744' -688</b>  |
| <b>Stark</b>      | <b>4048' -992</b>  |
| <b>Bkc</b>        | <b>4224' -1168</b> |
| <b>Marmaton</b>   | <b>4250' -1194</b> |
| <b>Pawnee</b>     | <b>4348' -1292</b> |
| <b>Fort Scott</b> | <b>4376' -1320</b> |
| <b>Cherokee</b>   | <b>4388' -1332</b> |
| <b>Morrow</b>     | <b>4684' -1628</b> |
| <b>St. Gen</b>    | <b>4838' -1782</b> |
| <b>RTD</b>        | <b>5050' -1994</b> |
| <b>LTD</b>        | <b>5050' -1994</b> |
|                   |                    |
|                   |                    |
|                   |                    |
|                   |                    |

## Sample Zone Descriptions

**Toronto (3718', -662): Covered in DST #1**

Limestone, tan, sub crystalline, chalky, occasional fossil fragments, poor scattered pinpoint vuggy porosity, slight odor, poor stain and saturation, fair flush cut. Gas 13 units hotwire.

**Lansing H (3950', -894): Covered in DST #2**

Limestone, tan, sub crystalline, scattered oolitic packstone, chalky, scattered Dolomitic recrystallization, poor oolitic and inter-crystalline porosity, strong odor, fair stain and saturation, good stream cut. Gas 14 units hotwire.

**Marmaton (4295', -1239): Covered in DST #3**

Limestone, cream/tan, oolitic packstone, slightly chalky, scattered poor oolitic and pinpoint vuggy porosity, fair to poor odor, poor stain and saturation, slight show of free oil in porosity, poor slow stream cut. Gas 25 units hotwire.

**Morrow (4814', -1758): Covered in DST #4**

Sandstone, gray/green, very fine grain, sub round to sub angular, well sorted, fair cementation, medium hard, glauconitic, fair to good inter crystalline porosity, very strong odor, good show of free oil in porosity, fair stain, good saturation, slow string cut, fair amount of oil in cup with oil scum on water. Gas 100+ units hotwire.

**St. Louis (4935', -1879): Covered in DST #5**

Limestone, cream, oolitic packstone, chalky, poor oolitic porosity, slight odor, poor stain and saturation, slow stream cut. Gas 48 units hotwire.

## Drill Stem Tests

Trilobite Testing  
"Bradley Walter"

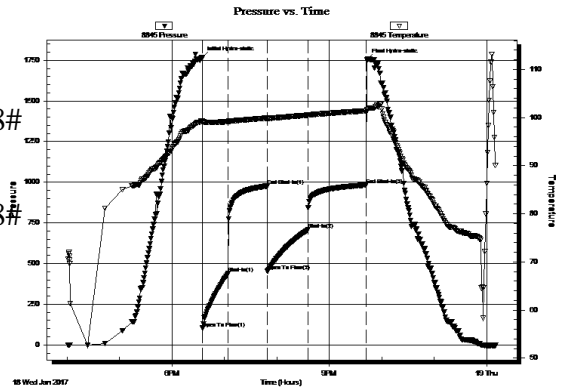
### DST #1 Toronto

Interval (3675' – 3730') Anchor Length 55'

- IHP - 1765 #
- IFP - 30" – BOB 3 min
- ISI - 45" – No Return
- FFP - 45" – BOB 4 min
- FSIP - 60" – No Return
- FHP - 1755 #
- BHT - 102° F

**Recovery:** 1570' SMCW (oil spots)  
Puddle of oil in tool

103-438#  
977#  
453-708#  
983#



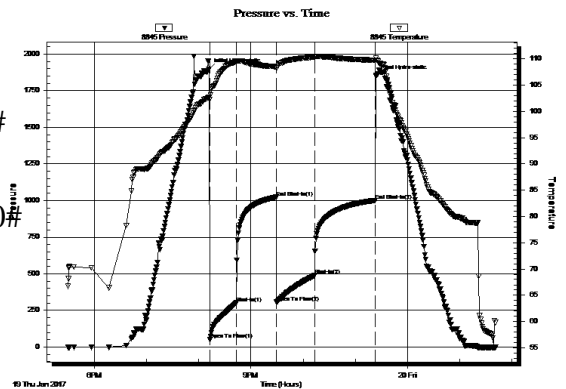
### DST #2 Lansing H

Interval (3928' – 3980') Anchor Length 52'

- IHP - 1895 #
- IFP - 30" – BOB 6 min
- ISI - 45" – No Return
- FFP - 45" – BOB 8 min
- FSIP - 60" – No Return
- FHP - 1850 #
- BHT - 110° F

**Recovery:** 1070' SMCW (oil spots in tool)

49-301#  
1023#  
306-490#  
1001#



**DST #3**

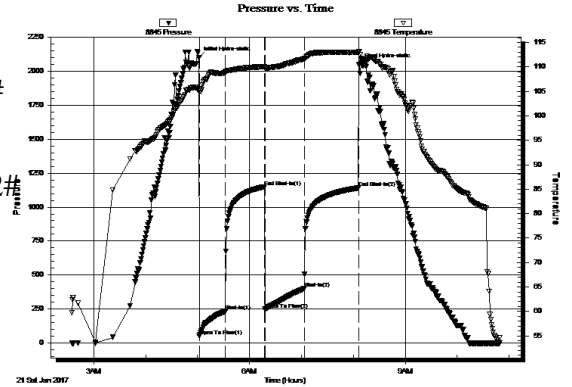
**Marmaton**

Interval (4259' – 4333') Anchor Length 74'

- IHP - 2100 #
- IFP - 30" – BOB 9 min
- ISI - 45" – 5" blow fell to 1"
- FFP - 45" – BOB 8 min
- FSIP - 60" – 9" blow fell to 3"
- FHP - 2048 #
- BHT - 113° F

**Recovery:** 560' GIP  
 130' CGO  
 120' GWOCM 30% O  
 300' SOMCW 3% O  
 330' W

51-234#  
 1149#  
 248-402#  
 1141#



**DST #4**

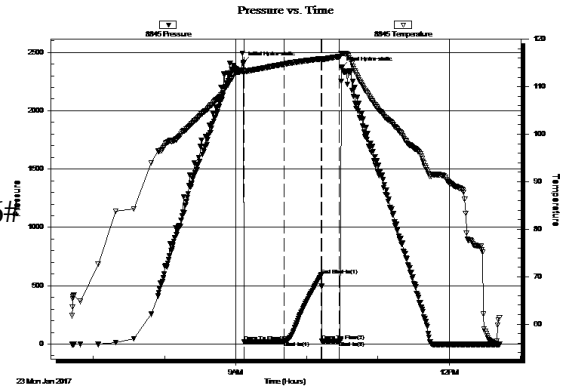
**Morrow**

Interval (4810' – 4845') Anchor Length 35'

- IHP - 2411 #
- IFP - 30" – 3/4" Blow
- ISI - 30" – No Return
- FFP - 10" – No Blow
- FSIP - Pulled Tool
- FHP - 2365 #
- BHT - 117° F

**Recovery:** 10' M (with oil spots)

18-23#  
 592#  
 115-116#



**DST #5**

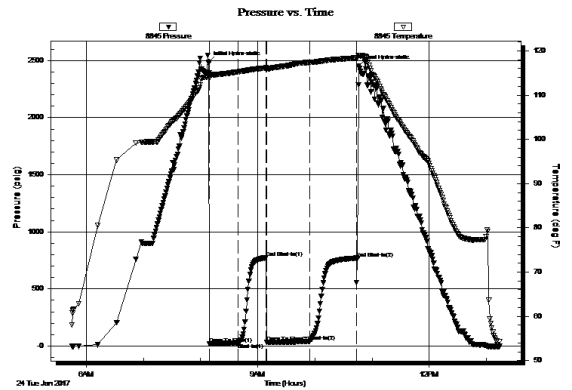
**St. Louis**

Interval (4915' – 4950') Anchor Length 35'

- IHP - 2486 #
- IFP - 30" – Built to 1 1/2"
- ISI - 30" – No Return
- FFP - 45" – 1/2" receded to Surface Blow
- FSIP - 45" – No Return
- FHP - 2451 #
- BHT - 119° F

**Recovery:** 100' GIP  
 40' GO  
 40' GOCM 35% O

20-27#  
 773#  
 23-24#





**Before Abandonment:      Lansing H              (3950' – 3962')**

**Morrow              (4808' – 4816')**

**(Morrow, tight, shut in never broke over, lower pressure)**

Respectfully Submitted,

Lukas Thompson  
American Warrior, Inc.