

# **Geological Report**

American Warrior, Inc.

## **Frank #1-4**

1741' FNL & 1635' FWL

Sec. 4, T27s, R31w

Haskell County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Frank #1-4  
1741' FNL & 1635' FWL  
Sec. 4, T27s, R31w  
Haskell County, Kansas  
API # 15-081-22084-00-00

Drilling Contractor: Duke Drilling Co. Rig #9

Geologist: Kevin Timson

Spud Date: October 22, 2014

Completion Date: October 31, 2014

Elevation 2813' G.L.  
2826' K.B.

Directions: From Garden City, KS. Go South on Hwy 83 18 miles to 30th Rd. Go East 8 miles to UU Rd. Go North 2 miles to County Line. Go East 1/4 mile and South into.

Casing: 1709' 8 5/8" #24 Surface Casing

Samples: 4000' to RTD 10' Wet & Dry

Drilling Time: 4000' to RTD

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

Drillstem Tests: Three-Trilobite Testing "Bradley Walter"

Problems: None

## Formation Tops

Frank #1-4

Sec. 4, T27s, R31w

1741' FNL & 1635' FWL

Anhydrite	1813' +1013
Base	1882' +944
Heebner	4074' -1248
Lansing	4149' -1323
Stark	4514' -1688
Bkc	4636' -1810
Marmaton	4654' -1828
Pawnee	4737' -1911
Fort Scott	4769' -1943
Cherokee	4783' -1957
Morrow	4983' -2157
Chester	5054' -2228
St. Gen	5082' -2256
St. Louis	5082' -2256
RTD	5250' -2424
LTD	5253' -2427

### Sample Zone Descriptions

**Lansing 'J'** (4480', -1654): Covered in DST #1

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Fair stain and fair saturation in porosity. No show of free oil. Fair odor. 30 units hotwire.

**Marmaton** (4654', -1828): Covered in DST #2

Ls/Dolo. Tan/Gray. Sub crystalline. Fair vuggy and poor intercrystalline porosity. Good stain. Fair saturation. Slight show of free oil. Fair odor. 25 units hotwire.

**Pawnee** (4737', -4737): Covered in DST #3

Ls. Off white/tan. Medium crystalline. Fair oomoldic porosity. Fair stain. Fair saturation. Show of free oil when broken. Poor odor. 30 Units hotwire.

**Drill Stem Tests**

Trilobite Testing

“Bradley Walter”

**DST #1**

**Lansing 'J'**

Interval (4474' – 4522') Anchor Length 48'

IHP - 2182 #

IFP - 45" – 6" blow 19-146 #

ISI - 45" – No return 1293 #

FFP - 45" – 3" blow 149-222 #

FSIP - 45" – No return 1279 #

FHP - 2025 #

BHT - 124 ° F

Recovery: 450' MCW with oil spots (90% Water)

**DST #2**

**Marmaton 'A'**

Interval (4616' - 4677') Anchor Length 51'

IHP - 2256 #

IFP - 30" - WSB died in 10 min 17-24 #

ISI - 30" - No return 64 #

FFP - 10" - No blow 19-NA #

FSIP - Pull Tool NA

FHP - 2169 #

BHT - 115° F

Recovery: 30' Mud

**DST #3**

**Pawnee**

Interval (4720' - 4752') Anchor Length 32'

IHP - 2315#

IFP - 30" - WSB 18-33 #

ISI - 30" - No return 1388 #

FFP - 10" - No blow 37-NA #

FSIP - Pull Tool NA

FHP - NA

BHT - 112° F

Recovery: 20' Mud

## Structural Comparison

	American Warrior, Inc. Frank #1-4 Sec. 4, T27s, R31w 1741' FNL & 1635' FWL		Texas Oil & Gas Nusser #1 Sec. 3, T27s, R31w 330' FSL & 330' FWL		Anadarko Production Bedell A #2 Sec. 9, T27s, R31w NE NE NE
<b>Formation</b>					
Heebner	4074' -1248	<b>FL</b>	4060' -1248	<b>FL</b>	4048' -1248
Lansing	4149' -1323	<b>NA</b>	4116' -1304	<b>NA</b>	4148' -1348
Stark	4514' -1688	<b>FL</b>	4500' -1688	<b>NA</b>	NA
BKC	4636' -1810	<b>+5</b>	4627' -1815	<b>NA</b>	NA
Marmaton	4654' -1828	<b>+4</b>	4644' -1832	<b>+6</b>	4634' -1834
Pawnee	4737' -1911	<b>+3</b>	4726' -1914	<b>NA</b>	NA
Fort Scott	4769' -1943	<b>+1</b>	4756' -1944	<b>NA</b>	NA
Cherokee	4783' -1957	<b>FL</b>	4769' -1957	<b>+14</b>	4771' -1971
Morrow	4983' -2157	<b>-9</b>	4960' -2148	<b>+1</b>	4958' -2158
Chester	5054' -2228	<b>+24</b>	5064' -2252	<b>NA</b>	NA
St. Gen	5082' -2256	<b>+30</b>	5098' -2286	<b>+22</b>	5078' -2278
St. Louis	5158' -2332	<b>-</b> <b>NA</b>	5132' -2320	<b>NA</b>	NA

### Summary

The location for the Frank #1-4 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 Frank #1-4 well.

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.

