

# **Geological Report**

American Warrior, Inc.

## **Tancayo #2-3**

2274' FSL & 2258' FWL

Sec. 3, T25s, R31w

Finney County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Tancayo #2-3  
2274' FSL & 2258' FWL  
Sec. 3, T25s, R31w  
Finney County, Kansas  
API # 15-055-22316-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Adam Folk & Kevin Timson

Spud Date: July 6, 2014

Completion Date: July 17, 2014

Elevation 2862' G.L.  
2873' K.B.

Directions: From Garden City Airport. Go SE on Hwy 50 1.3 miles to gated lease road and ingress West into.

Casing: 1698' 8 5/8" #24 Surface Casing  
5086' 5 1/2" #15.5 Production Casing

Samples: 4500' to RTD 10' Wet & Dry

Drilling Time: 3950' to RTD

Electric Logs: Pioneer Energy Services "J. Long"  
Stacked-Micro

Drillstem Tests: Three-Trilobite Testing "Mike Roberts"

Problems: None

## Formation Tops

Tancayo #2-3

Sec. 3, T25s, R31w

2274' FSL & 2258' FWL

<b>Anhydrite</b>	<b>1898' +975</b>
<b>Base</b>	<b>1974' +899</b>
<b>Heebner</b>	<b>4000' -1127</b>
<b>Lansing</b>	<b>4059' -1186</b>
<b>Stark</b>	<b>4412' -1539</b>
<b>Bkc</b>	<b>4536' -1663</b>
<b>Marmaton</b>	<b>4556' -1683</b>
<b>Pawnee</b>	<b>4639' -1766</b>
<b>Fort Scott</b>	<b>4663' -1790</b>
<b>Cherokee</b>	<b>4679' -1806</b>
<b>Morrow</b>	<b>4842' -1969</b>
<b>Miss</b>	<b>4860' -1987</b>
<b>RTD</b>	<b>5100' -2227</b>
<b>LTD</b>	<b>5100' -2227</b>

## Sample Zone Descriptions

**St. Louis** (4860', -1987): Covered in DST #3

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Poor stain. No saturation. No odor. No show of free oil.

## Drill Stem Tests

Trilobite Testing

“Mike Roberts”

### DST #1

#### Pawnee to Cherokee

Interval (4624' – 4670') Anchor Length 46'

IHP - 2320 #

IFP - 30" – WSB built to 1" 21-40 #

ISI - 45" – No return 1276 #

FFP - 45" – No blow 45-66 #

FSIP - 60" – No return 1259 #

FHP - 2307 #

BHT - 120° F

Recovery: 100' Mud

### DST #2

#### Morrow

Interval (4792' – 4848') Anchor Length 56'

IHP - 2425 #

IFP - 30" – WSB died in 5 min 36-38 #

ISI - 30" – No return 189 #

FFP - 30" – No blow, flushed tool, no blow 38-43 #

FSIP - 30" – No return 205 #

FHP - 2405 #

BHT - 121° F

Recovery: 5' Mud

### DST #3

#### St. Louis

Interval (4904' – 4935') Anchor Length 31'

IHP - 2437 #

IFP - 30" – WSB died in 10 min 16-18 #

ISI - 30" – No return 474 #

FFP - 30" – No blow, flushed tool, no blow 18-22 #

FSIP - 30" – No return

FHP - 2433 #

BHT - 121° F

Recovery: 5' Mud

## Structural Comparison

	American Warrior, Inc. Tancayo #2-3 Sec. 3, T25s, R31w 2274' FSL & 2258' FWL		American Warrior, Inc. Tancayo #1-3 Sec. 3, T25s, R31w 1959' FSL & 2084' FEL		American Warrior, Inc. Clark #3-2 Sec 2, T25s, R31w 2165' FSL & 1738' FEL
<b>Formation</b>					
Heebner	4000' -1127	+1	3976' -1128	+17	3983' -1144
Lansing	4059' -1186	-4	4030' -1182	+7	4032' -1193
Stark	4412' -1539	+2	4389' -1541	+19	4397' -1558
BKC	4536' -1663	+5	4516' -1668	+26	4528' -1689
Marmaton	4556' -1683	+11	4542' -1694	+30	4552' -1713
Pawnee	4639' -1766	+1	4615' -1767	+20	4625' -1786
Fort Scott	4663' -1790	+1	4639' -1791	+17	4646' -1807
Cherokee	4679' -1806	+2	4656' -1808	+8	4653' -1814
Morrow	4842' -1969	+1	4818' -1970	+12	4820' -1981
Miss	4860' -1987	+1	4836' -1988	+17	4843' -2004

### Summary

The location for the Tancayo #2-3 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 run 5 ½" production casing to attempt to shoot St. Louis lower and upper. After exhausting pay zones convert well into SWDW.

### Perforations

**Primary: St. Louis (5011' – 5019')**

**Secondary: St. Louis (4943' – 4946')**

**Secondary: St. Louis (4928' – 4932')**

**Disposal: Platsmouth (3978' – 3998')**

**Before Abd: Fort Scott (4670' – 4675')**

Respectfully Submitted,

Kevin Timson

