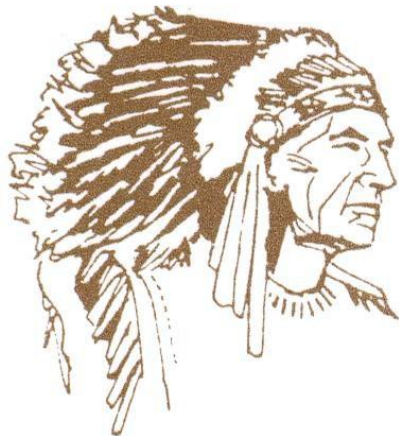


# **Geological Report**

American Warrior, Inc.  
**O'Brate-Beach #1-22**  
975' FSL & 1801' FWL  
Sec 22, T25s, R31w  
Finney County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
O'Brate-Beach #1-22  
975' FSL & 1801' FWL  
Sec. 22, T25s, R31w  
Finney County, Kansas  
API # 15-055-22433-00-00

Drilling Contractor: Duke Drilling Co. Rig #1

Geologist: Kevin Timson

Spud Date: August 31, 2016

Completion Date: September 9, 2016

Elevation 2809' G.L.  
2797' K.B.

Directions: From Pierceville, Go South on Main street 1.3 miles  
turn West into on lease road.

Casing: 1700' 8 5/8" #24 Surface Casing  
5050' 5 1/2" #15.5 Production Casing

Samples: 3850' to RTD 10' Wet & Dry

Drilling Time: 3850' to RTD

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

Drillstem Tests: Two "Brandon Turley" Trilobite Testing

Problems: None

## Formation Tops

O'Brate-Beach #1-22

Sec. 22, T25s, R31w

975' FSL & 1801' FWL

|            |             |
|------------|-------------|
| Anhydrite  | 1827' +982  |
| Heebner    | 3931' -1122 |
| Lansing    | 3980' -1171 |
| Stark      | 4354' -1545 |
| Bkc        | 4476' -1667 |
| Marmaton   | 4494' -1685 |
| Pawnee     | 4572' -1763 |
| Fort Scott | 4598' -1789 |
| Cherokee   | 4614' -1805 |
| Morrow     | 4762' -1953 |
| St. Gen    | 4770' -1961 |
| RTD        | 5050' -2241 |
| LTD        | 5052' -2243 |

### Sample Description(s)

**Marmaton A: (4494' -1685)** Ls/Dolo. Tan/gray. Fine to sub crystalline. Fair oolycastic porosity. Fair to good intercrystalline porosity. Fair to good stain. Fair saturation. Show of free oil when broken. Fair odor. Bright yellow full cut.

**Pawnee Limestone: (4602' -1775)** Ls. Off white/tan. Medium to sub crystalline. Fair Oomoldic porosity, fair oolycastic porosity. Poor stain. Poor saturation. Fair to good odor. No show of free oil. Fair to good bright yellow stream cut.

## Drill Stem Tests

### DST #1

#### Marmaton A

Interval (4460' - 4531') Anchor Length: 71'

IHP - 2296#

IFP - 30" -BOB in 28 min

21-25#

ISI - 45" -No return

175#

FFP - 45" -BOB in 12 min

25-32#

FSIP - 60" -No return

176#

FHP -2225#

BHT -119° F

Recovery: 40' OCM

461' GIP

### DST #2

#### Pawnee

Interval (4570' - 4586') Anchor Length: 16'

IHP - 2383#

IFP -30" -BOB in 3 min

18-36#

ISI -45" -WSB built to 1"

1247#

FFP -45" -BOB in 30 sec

39-71#

FSIP -60" -BOB in 14 min

1209#

FHP -2368#

BHT -120°F

Recovery: 103' GO

Gravity: 30

63' MCW

4126' GIP

## Structural Comparison

|             | American Warrior, Inc. |     | American Warrior, Inc. |     | American Warrior, Inc. |  |
|-------------|------------------------|-----|------------------------|-----|------------------------|--|
|             | O'Brate-Beach #1-22    |     | O'Brate-Finney #3-15   |     | O'Brate-Beach #1-27    |  |
|             | Sec 22, T25s, R31w     |     | Sec 35, T32s, R31w     |     | Sec 27, T25s, R31w     |  |
| Formation   | 975' FSL & 1801' FWL   |     | 3300' FSL & 1980' FEL  |     | 751' FNL & 2296' FWL   |  |
| Heebner     | 3931' -1122            | -12 | 3911' -1110            | +4  | 3953' -1126            |  |
| Lansing     | 3980' -1171            | -11 | 3961' -1160            | +1  | 3999' -1172            |  |
| Stark       | 4354' -1545            | -16 | 4330' -1529            | +3  | 4375' -1548            |  |
| BKc         | 4476' -1667            | -10 | 4458' -1657            | +9  | 4503' -1676            |  |
| Marmaton    | 4494' -1685            | -4  | 4482' -1681            | +14 | 4526' -1699            |  |
| Pawnee      | 4572' -1763            | -10 | 4554' -1753            | +8  | 4602' -1775            |  |
| Fort Scott  | 4598' -1789            | -7  | 4583' -1782            | +12 | 4628' -1801            |  |
| Cherokee    | 4614' -1805            | -9  | 4597' -1796            | +10 | 4642' -1815            |  |
| Morrow      | 4762' -1953            | -12 | 4742' -1941            | +6  | 4786' -1959            |  |
| St. Genieve | 4770' -1961            | -2  | 4760' -1959            | +16 | 4804' -1977            |  |

## Summary

The location for the O'Brate-Beach #1-27 well was found via 3-D seismic. The new well ran structurally as expected. One DST was conducted, which recovered commercial quantities of oil from the Pawnee Limestone Formation. After all the gathered data had been examined, the decision was made to run 5 1/2" production casing to further evaluate the O'Brate-Beach #1-27 well.

### Perforations:

|                   |                   |                      |
|-------------------|-------------------|----------------------|
| <b>Primary:</b>   | <b>St. Louis</b>  | <b>(4934'-4938')</b> |
|                   | <b>St. Louis</b>  | <b>(4913'-4917')</b> |
| <b>Secondary:</b> | <b>Fort Scott</b> | <b>(4603'-4607')</b> |
|                   | <b>Pawnee</b>     | <b>(4575'-4583')</b> |
|                   | <b>Marmaton</b>   | <b>(4532'-4536')</b> |

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.

