

Geological Report

American Warrior, Inc.
O'Brate-Finney #2-15
1994' FNL & 537' FWL
Sec. 15, T25s, R31w
Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #2-15
1994' FNL & 537' FWL
Sec. 15, T25s, R31w
Finney County, Kansas
API # 15-055-22300-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: May 22, 2014

Completion Date: June 1, 2014

Elevation 2761' G.L.
2772' K.B.

Directions: From Pierceville, KS. Go South on Main Street .9 miles to Beach Rd. Go West 2 miles, follow curve to the North ½ mile. East into location.

Casing: 1698' 8 5/8" #24 Surface Casing
4964' 5 ½" #15.5 Production Casing

Samples: 4300' to RTD 10' Wet & Dry

Drilling Time: 3850' to RTD

Electric Logs: Pioneer Energy Services "C. Desaire"
Stacked-Micro

Drillstem Tests: One-Trilobite Testing "Corndog"

Problems: Rig repairs during FSI on DST made it longer.

Formation Tops
O'Brate-Finney #2-15
Sec. 15, T25s, R31w
1994' FNL & 537' FWL

Anhydrite	1793' +979
Base	1867' +905
Heebner	3887' -1115
Lansing	3941' -1169
Stark	4304' -1532
Bkc	4426' -1654
Marmaton	4452' -1680
Pawnee	4529' -1757
Fort Scott	4552' -1780
Cherokee	4564' -1792
Morrow	4723' -1951
Miss	4730' -1958
RTD	5000' -2228
LTD	4998' -2226

Sample Zone Descriptions

Pawnee (4529',-1757): Covered in DST #1
 Ls. Tan. Medium to sub crystalline. Fair oomoldic and fair oolycastic porosity. Good stain. Fair saturation. Fair odor. 25 Units hotwire.

Marmaton (4452', -1680): Not tested
 Ls. Brown. Sub crystalline. Fair to good oomoldic porosity. Fair stain. Fair saturation. Poor odor. 60 Unit hotwire.

Drill Stem Tests
 Trilobite Testing
 “Corndog”

DST #1

Marmaton to Pawnee

Interval (4460’ – 4547’) Anchor 87’

IHP	- 2197 #	
IFP	- 30” – BOB in 3 min	71-134 #
ISI	- 45” – WSB built to ¾”	1306 #
FFP	- 45” – BOB in 3 min	149-209 #
FSIP	- 78” – BOB in 20 min	1311 #
FHP	- 2188 #	
BHT	- 119° F	

Recovery: 78’ G & OCM (30% Oil, 20% Gas) Gravity: 32
 32’ OCM & G (20% Oil, 40% Gas)
 32’ COG (25% Oil, 75% Gas)
 185’ WCM & OCG (20% Oil, 60% Gas, 5% Water)
 122’ WCO & GCM (10% Oil, 40% Gas, 5% Water)

Structural Comparison

Formation	American Warrior, Inc. O’Brate-Finney #2-15 Sec. 15, T25s, R31w 1994’ FNL & 537’ FWL	+10	American Warrior, Inc. O’Brate-Finney #1-15 Sec. 15, T25s, R31w 1697’ FSL & 1379’ FWL	+47	American Warrior, Inc. Clark #2-2 Sec 2, T25s, R31w 1705’ FNL & 657’ FEL
Heebner	3887’ -1115	+10	3895’ -1125	+47	4021’ -1162
Lansing	3941’ -1169	+11	3950’ -1180	+35	4063’ -1204
Stark	4304’ -1532	+10	4312’ -1542	+30	4421’ -1562
BKC	4426’ -1654	+19	4443’ -1673	+35	4548’ -1689
Marmaton	4452’ -1680	+18	4468’ -1698	+31	4570’ -1711
Pawnee	4529’ -1757	+13	4540’ -1770	+28	4644’ -1785
Fort Scott	4552’ -1780	+19	4569’ -1799	+26	4665’ -1806
Cherokee	4564’ -1792	+22	4584’ -1814	+29	4680’ -1821
Morrow	4723’ -1951	+31	4752’ -1982	+25	4835’ -1976
Miss	4730’ -1958	+56	4784’ -2014	+49	4866’ -2007

Summary

The location for the O'Brate-Finney #2-15 well was found via 3-D seismic survey. The new well ran structurally as expected. One drill stem was conducted, which recovered commercial amounts of oil from the Pawnee Limestone formation. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the O'Brate-Finney #2-15 well.

Perforations

Primary: **Pawnee** **(4534' – 4540')**

Secondary: **Marmaton** **(4449' – 4454')**

Before Abandonment: **Marmaton** **(4508' – 4510')**

Marmaton **(4482' – 4485')**

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

