

Geological Report

American Warrior, Inc.
O'Brate-Finney #1-5
742' FSL & 2310' FWL
Sec. 5, T23s, R32w
Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #1-5
742' FSL & 2310' FWL
Sec. 5, T23s, R32w
Finney County, Kansas
API # 15-055-22360-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: November 28, 2014

Completion Date: December 9, 2014

Elevation 2849' G.L.
2860' K.B.

Directions: From Garden City, KS, go North on Hwy 83 5 miles to Six Mile Rd. Go East a half mile to Third St. Go North one mile and East into.

Casing: 1725' 8 5/8" #24 Surface Casing
4984' 5 1/2" #15.5 Production Casing

Samples: 4200' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

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

Drillstem Tests: Three-Trilobite Testing "Mike Roberts"

Problems: Possible problems with test tool on shut-in pressures.

Formation Tops
O'Brate-Finney #1-5
Sec. 5, T23s, R32w
742' FSL & 2310' FWL

Anhydrite	1881' +979
Base	1980' +880
Heebner	3829' -969
Lansing	3877' -1017
Stark	4212' -1352
Bkc	4350' -1490
Marmaton	4375' -1515
Pawnee	4449' -1589
Fort Scott	4472' -1612
Cherokee	4491' -1631
Morrow	4658' -1798
Miss	4677' -1817
RTD	5000' -2140
LTD	4999' -2139

Sample Zone Descriptions

Pawnee (4449', -1589): Covered in DST #2

Ls. Tan. Sub to medium crystalline. Fair oomoldic and oolycastic porosity. Fair to good stain. Fair to good saturation. Show of free oil when broken. Good odor. 75 Unit hotwire.

St. Louis (4677', -1817): Covered in DST #3

Ls. Tan. Sub crystalline. Fair to good oomoldic and oolycastic porosity. Good stain and good saturation in porosity. Show of free oil when broken. Fair odor. 100 Unit kick.

Drill Stem Tests
Trilobite Testing
“Mike Roberts”

DST #1

Marmaton

Interval (4390' - 4442') Anchor Length 52'

IHP	-2203 #	
IFP	- 30" – WSB died in 2 min	33-34 #
ISI	- 30" – No Return	472 #
FFP	- 10" – No blow	35 #
FSIP	- Pull Tool	NA
FHP	- 2199 #	
BHT	- Not recorded	

Recovery: 2' Mud

DST #2

Pawnee to Cherokee

Interval (4432' - 4511') Anchor Length 79'

IHP	- 2232 #	
IFP	-30" - BOB in 3 min	83-280 #
ISI	-45" - No return	1179 #
FFP	- 45" - BOB in 4 min	299-490 #
FSIP	- 60" - No return	749 #
FHP	- 2200#	
BHT	- 122° F	

Recovery: 651' OCGM (20% Oil, 30% Gas)
186' GCOWM (10% Oil, 10% Gas, 30% Water)
186' OCGW (10% Oil, 30% Gas, 60% Water)
186' MCW

DST #3

St. Louis

Interval (4754' - 4776') Anchor Length 22'

IHP	- 2406 #	
IFP	- 30" - BOB in 1 min	127-276#
ISI	- 45" - BOB in 20 min	443 #
FFP	- 45" - BOB in 2 min GTS	405-501 #
FSIP	- 60" - BOB in 9 min	605 #
FHP	- 2423 #	
BHT	- 128° F	

Recovery: 930' Oil Gravity: 31
 930' MCO (90% Oil)

Structural Comparison

	American Warrior, Inc. O'Brate-Finney #1-5 Sec. 5, T23s, R32w 742' FSL & 2310' FWL		Norstar Petroleum Bergkamp #1-8 Sec. 8, T23s, R32w 660' FSL & 1980' FEL		Hawkins Oil A A Dewey #1 Sec 9, T23s, R32w SW SE SW
Formation					
Heebner	3829' -969	-8	3817' -961	NA	NA
Lansing	3877' -1017	-8	3865' -1009	-8	3893' -1009
Stark	4212' -1352	-4	4204' -1348	NA	NA
BKC	4350' -1490	-5	4341' -1485	NA	NA
Marmaton	4375' -1515	-8	4363' -1507	-4	4395' -1511
Pawnee	4449' -1589	-4	4441' -1585	+1	4474' -1590
Fort Scott	4472' -1612	-3	4465' -1609	+1	4497' -1613
Cherokee	4491' -1631	-5	4482' -1626	NA	NA
Morrow	4658' -1798	+24	4678' -1822	-8	4674' -1790
St. Louis	4677' -1817	+12	4685' -1829	-21	4680' -1796

Summary

The location for the O'Brate-Finney #1-5 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted which recovered commercial quantities of oil from the Pawnee and St. Louis Limestone. 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 #1-5 well.

Perforations

Primary:

St. Louis	(4780' – 4787')	Not Tested
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Secondary:

St. Louis	(4765' - 4671')	DST #3
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Pawnee	(4451' - 4454') & (4456' - 4458')	DST #2
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Before Abandonment

Fort Scott	(4477' - 4483')	DST #2
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Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

