

Geological Report

American Warrior, Inc.
O'Brate-Finney #4-5
2262' FSL & 941' FWL
Sec 5, T23s, R32w
Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #4-5
2262' FSL & 941' FWL
Sec. 5, T23s, R32w
Finney County, Kansas
API # 15-055-22381-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: January 10, 2015

Completion Date: January 19, 2015

Elevation 2851' G.L.
2862' K.B.

Directions: From intersection of Hwy 50 and Hwy 83, go north 5 miles to 6 Mile Rd, go west 2 miles to 3rd St, go north ¾ miles to lease road, go west ¼ miles, then south into.

Casing: 1657' 8 5/8" #24 Surface Casing
4879' 5 ½" #15.5 Production Casing

Samples: 3800' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "D. Kerr"
Stacked Micro

Drillstem Tests: Three-Trilobite Testing "Cornelio Landa III"

Problems: None encountered

Formation Tops
O'Brate-Finney #4-5
Sec. 5, T23s, R32w
2662' FSL & 941' FWL

Anhydrite	1909' +953
Base	1995' +867
Heebner	3846' -984
Lansing	3894' -1032
Stark	4224' -1362
Bkc	4364' -1502
Marmaton	4388' -1526
Pawnee	4465' -1603
Fort Scott	4490' -1628
Cherokee	4508' -1646
Morrow	4674' -1812
Miss	4712' -1849
RTD	4900' -2038
LTD	4902' -2040

Sample Zone Descriptions

Pawnee **(4465', -1603):** **Covered in DST #1**
Limestone, tan, sub to medium crystalline, fair oolycastic porosity, Fair stain, fair saturation, show free oil, fair odor. 80 unit hotwire

Morrow **(4680', -1818):** **Covered in DST #2**
Sandstone, white to grey, fine grain, well rounded, well sorted, poor consolidation, slight show free oil, no odor, 2 cuttings with show. 20 unit hotwire

St. Louis **(4769', -1907):** **Covered in DST #3**
Limestone, oolitic grainstone, cream, poor oolycastic porosity, good show free oil when broke, well consolidated, good odor. 47 unit hotwire

Drill Stem Tests
Trilobite Testing
“Cornelio Landa III”

DST #1

Pawnee

Interval (4441’-4470’) Anchor Length 29’

IHP	- 2261#	
IFP	- 30” – wsb, built to 1 inch	16-22 #
ISI	- 30” – No return	240 #
FFP	- 30” – Built to 2 ¼ inch	13-19 #
FSIP	- 30” – No return	98#
FHP	- 2231 #	
BHT	- 114° F	
Recovery:	32’ GOCM	15% O

DST #2

Morrow

Interval (4668’-4728’) Anchor Length 60’

IHP	- 2472 #	
IFP	- 30” – wsb	19-22 #
ISI	- 30” – No return	63 #
FFP	- 30” – No blow	23 #
FSIP	- 30” – No return	40 #
FHP	- 2340#	
BHT	- 115° F	
Recovery:	5’ M w/show oil	

DST #3

St. Louis

Interval (4752’-4782’) Anchor Length 30’

IHP	- 2512 #	
IFP	- 30” – BOB in 4 min	21-59 #
ISI	- 45” – wsb built to 1 inch	1237 #
FFP	- 45” – BOB in 2 min	68-116 #
FSIP	- 60” – BOB in 14 min	1217 #
FHP	- 2385 #	
BHT	- 122° F	
Recovery:	3196’ GIP	
	94’ CGO	
	188’ MCOG	

Structural Comparison

	American Warrior, Inc. O'Brate-Finney #4-5 Sec. 5, T23s, R32w 2262' FSL & 941' FWL		American Warrior, Inc. O'Brate-Finney #1-5 Sec. 5, T23s, R32w 742' FSL & 2310' FWL		American Warrior, Inc. O'Brate-Finney #3-5 Sec. 23, T23s, R32w 2178' FSL & 2165' FEL
Formation					
Heebner	3846' -984	-15	3829' -969	+9	3852' -993
Lansing	3894' -1032	-15	3877' -1017	+10	3901' -1042
Stark	4224' -1362	-10	4212' -1352	+18	4239' -1380
BKC	4364' -1502	-12	4350' -1490	+21	4382' -1523
Marmaton	4388' -1526	-11	4375' -1515	+25	4410' -1551
Pawnee	4465' -1603	-14	4449' -1589	+24	4486' -1627
Fort Scott	4490' -1628	-16	4472' -1612	+24	4511' -1652
Cherokee	4508' -1646	-15	4491' -1631	+24	4529' -1670
Morrow	4674' -1812	-14	4658' -1798	+26	4697' -1838
Miss	4712' -1849	-32	4677' -1817	+64	4772' -1913

Summary

The location for the O'Brate-Finney #4-5 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted one of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 1/2" casing to further evaluate the O'Brate-Finney #4-5 well.

Perforations

Primary: St. Louis (4772'-4777')

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

