

Geological Report

American Warrior, Inc.

O'Brate-Finney #3-5

2178' FSL & ' FEL

Sec. 5, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #3-5
2178' FSL & 2165' FWL
Sec. 5, T23s, R32w
Finney County, Kansas
API # 15-055-22370-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: December 29, 2014

Completion Date: January 8, 2015

Elevation 2848' G.L.
2859' 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 1 mile and East into.

Casing: 1638' 8 5/8" #24 Surface Casing

Samples: 4300' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "D. Kerr"
Stack-Mirco

Drillstem Tests: Four-Trilobite Testing "Corndog"

Problems: None

Formation Tops
O'Brate-Finney #3-5
Sec. 5, T23s, R32w
2178' FSL & 2165' FEL

Anhydrite	1929' +930
Base	1999' +860
Heebner	3852' -993
Lansing	3901' -1042
Stark	4239' -1380
Bkc	4382' -1523
Marmaton	4410' -1551
Pawnee	4486' -1627
Fort Scott	4511' -1652
Cherokee	4529' -1670
Morrow	4697' -1838
Miss	4772' -1913
RTD	4900' -2041
LTD	4899' -2040

Sample Zone Descriptions

Morrow (4697', -1838): Covered in DST #1, #2, #3

Ss. Grey. Glauconitic. Fine to coarse grain. Well to poorly cemented. Well rounded. Well sorted. Poor to fair stain. Poor saturation. Show of free oil when broken. Poor odor. 15 unit gas kick.

St. Louis (4772', -1913): Covered in DST #3 & #4

Ls. Tan. Sub crystalline. Fair to good oomoldic and oolycastic porosity. Fair stain and fair saturation in porosity. Show of free oil when broken. Fair odor. 80 Unit kick.

Drill Stem Tests
 Trilobite Testing
 “Corndog & Mike Roberts”

DST #1

Morrow

Interval (4676' - 4727') Anchor Length 51'

IHP	-2370 #	
IFP	- 30" – WSB built to 1/8"	17-19 #
ISI	- 30" – No Return	32 #
FFP	- 30" – No blow	19-20 #
FSIP	- 30" - No return	26 #
FHP	- 2340 #	
BHT	- 113° F	
Recovery:	5' Mud	

DST #2

Morrow

Interval (4677' - 4756') Anchor Length 79'

IHP	- 2367 #	
IFP	-45" - WSB built to 2.5"	19-35 #
ISI	-45" - No return	1081 #
FFP	- 45" - WSB	38-51 #
FSIP	- 45" - No return	1015 #
FHP	- 2341 #	
BHT	- 109° F	
Recovery:	64' Mud	

DST #3

Morrow/St. Louis

Interval (4674' - 4780') Anchor Length 106'

IHP	- 2369 #	
IFP	- 30" - BOB in 20 min GTS 25 min	25-89#
ISI	- 45" - WSB died in 10 min	1217 #
FFP	- 45" - BOB in 8 min GTS 30 min	94-159 #
FSIP	- 60" - WSB died in 5 min	1215 #
FHP	- 2311 #	
BHT	- 113° F	
Recovery:	99' O & GCM (2% Oil)	
	94' O & GCM (5% Oil)	94' O & GCM (20% Oil)

DST #4

St. Louis

Interval (4790' - 4834') Anchor 44' Tail Pipe: 66

IHP - 2466 #

IFP - 45" - WSB built to 3" 31-37 #

ISI - 45" - No return 1139 #

FFP - 45" - WSB built to 1.5" 40-45 #

FSIP - 45" - No return 1064 #

FHP - 2390 #

BHT - NA

Recovery: 60' Mud

Structural Comparison

	American Warrior, Inc. O'Brate-Finney #3-5 Sec. 5, T23s, R32w 2178' FSL & 2165' FWL		American Warrior, Inc. O'Brate-Finney #2-5 Sec. 5, T23s, R32w 790' FSL & 1440' FEL		American Warrior, Inc. O'Brate-Finney #1-5 Sec 5, T23s, R32w 742' FSL & 2310' FWL
Formation					
Heebner	3852' -993	-8	3847' -985	-24	3829' -969
Lansing	3901' -1042	-8	3896' -1034	-25	3877' -1017
Stark	4239' -1380	-12	4230' -1368	-28	4212' -1352
BKC	4382' -1523	-18	4367' -1505	-33	4350' -1490
Marmaton	4410' -1551	-22	4391' -1529	-36	4375' -1515
Pawnee	4486' -1627	-21	4468' -1606	-38	4449' -1589
Fort Scott	4511' -1652	-24	4490' -1628	-40	4472' -1612
Cherokee	4529' -1670	-27	4505' -1643	-39	4491' -1631
Morrow	4697' -1838	-34	4666' -1804	-40	4658' -1798
Miss	4772' -1913	-73	4702' -1840	-96	4677' -1817

Summary

The location for the O'Brate-Finney #3-5 well was found via 3-D seismic survey. The new well ran structurally as expected. Four drill stem tests were conducted, which did not recover commercial quantities of oil. After all the gathered data had been examined, the decision was made to plug and abandon the O'Brate-Finney #3-5 well.

