

Geological Report

American Warrior, Inc.

O'Brate-Finney #8-5

1018' FNL & 1154' FEL

Sec. 5, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #8-5
1018' FNL & 1154' FEL
Sec. 5, T23s, R32w
Finney County, Kansas
API # 15-055-22402-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: April 7, 2015

Completion Date: April 15, 2015

Elevation 2856' G.L.
2867' K.B.

Directions: From Garden City, KS, go North on Hwy 83 5 miles to Six Mile Rd. Go East one mile to Third St. Go North 2 miles and East on lease road. South and East into.

Casing: 1693' 8 5/8" #24 Surface Casing
4936' 5 1/2" #17 Production Casing

Samples: 3800' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "J. Long"
Stack-Mirco

Drillstem Tests: One-Trilobite Testing "Brandon Turley"

Problems: None

Formation Tops
O'Brate-Finney #8-5
Sec. 5, T23s, R32w
1018' FNL & 1154' FEL

Anhydrite	1944' +923
Base	2010' +857
Heebner	3857' -990
Lansing	3903' -1036
Stark	4245' -1378
BKc	4382' -1515
Marmaton	4406' -1539
Pawnee	4483' -1616
Fort Scott	4507' -1640
Cherokee	4518' -1651
Morrow	4684' -1817
Miss	4717' -1850
RTD	4950' -2083
LTD	4949' -2080

Sample Zone Descriptions

Morrow (4684', -1817): **Covered in DST #1**
 Ss. Gray. Glauconitic. Med to coarse grains. Poor to fairly cemented. Well rounded. Good stain. Good saturation. Good show of free oil. Fair odor. 50 Unit kick.

St. Louis (4717', -1850): **Not Tested**
 Ls. Tan. Sub crystalline. Fair oolycastic porosity. Good stain. Fair saturation. Show of free oil. Fair odor. 60 unit kick.

Drill Stem Tests
Trilobite Testing
"Brandon Turley"

DST #1

Morrow

Interval (4680' - 4726') Anchor Length 46'

IHP -2403 #
IFP - 45" – BOB in 20 min 22-33 #
ISI - 45" – No Return 1034 #
FFP - 45" – BOB in 1 min 41-52 #
FSIP - 45" - WSB died in 15 min 873 #
FHP - 2287 #
BHT - 118° F

Recovery: 31' GO (90% Oil) Gravity: 30
95' MCGO (40% Oil)
729' GIP

Structural Comparison

	American Warrior, Inc. O'Brate-Finney #8-5 Sec. 5, T23s, R32w 1018' FNL & 1154' FEL		American Warrior, Inc. O'Brate-Finney #6-5 Sec. 5, T23s, R32w 357' FNL & 2497' FEL		American Warrior, Inc. O'Brate-Finney #3-5 Sec 5, T23s, R32w 2178' FSL & 2165' FWL
Formation					
Heebner	3857' -990	-17	3845' -973	+3	3852' -993
Lansing	3903' -1036	-16	3892' -1020	+6	3901' -1042
Stark	4245' -1378	-26	4224' -1352	+2	4239' -1380
BKC	4382' -1515	-28	4359' -1487	+8	4382' -1523
Marmaton	4406' -1539	-25	4386' -1514	+12	4410' -1551
Pawnee	4483' -1616	-23	4465' -1593	+11	4486' -1627
Fort Scott	4507' -1640	-24	4488' -1616	+12	4511' -1652
Cherokee	4518' -1651	-22	4501' -1629	+19	4529' -1670
Morrow	4684' -1817	-28	4663' -1791	+21	4697' -1838
Miss	4717' -1850	-16	4706' -1834	+63	4772' -1913

Summary

The location for the O'Brate-Finney #8-5 well was found via 3-D seismic survey. The new well ran structurally as expected. One drill stem tests was conducted, which did recover commercial quantities of oil from the Morrow Sandstone 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-Finney #8-5 well.

Perforations

Primary:	St. Louis	(4840' - 4844')	Not Tested
Secondary:	St. Louis	(4826' - 4834')	Not Tested
	St. Louis	(4816' - 4821')	Not Tested
	St. Louis	(4794' - 4800')	Not Tested
	St. Louis	(4745' - 4752')	Not Tested
	Morrow	(4698' - 4702')	DST #1 (FRAC?)
Before Abandonment:	Pawnee	(4485' - 4492')	Not Tested