

Geological Report

American Warrior, Inc.

O'Brate-Finney #6-5

357' FNL & 2497' FEL

Sec. 5, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #6-5
357' FNL & 2497' FEL
Sec. 5, T23s, R32w
Finney County, Kansas
API # 15-055-22387-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: March 20, 2015

Completion Date: March 31, 2015

Elevation 2861' G.L.
2872' 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 into location.

Casing: 1774' 8 5/8" #24 Surface Casing
4939' 5 1/2" #15.5 Production Casing

Samples: 3800' to RTD 10' Wet & Dry

Drilling Time: 3700' to RTD

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

Drillstem Tests: Six-Trilobite Testing "Chuck Smith & Jace McKinney"

Problems: None

Formation Tops
O'Brate-Finney #6-5
Sec. 5, T23s, R32w
357' FNL & 2497' FEL

Anhydrite	1927' +945
Base	2009' +863
Heebner	3845' -973
Lansing	3892' -1020
Stark	4224' -1352
BKc	4359' -1487
Marmaton	4386' -1514
Pawnee	4465' -1593
Fort Scott	4488' -1616
Cherokee	4501' -1629
Morrow	4663' -1791
Miss	4706' -1834
RTD	4950' -2078
LTD	4949' -2077

Sample Zone Descriptions

Lansing L **(4280', -1408):** **Covered in DST #1**
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. 30 Unit kick.

Cherokee **(4501', -1629):** **Covered in DST #4**
Ls. Brown. Sub crystalline. Fair oolycastic porosity. Good stain. Fair saturation. Show of free oil. Fair odor. 75 unit kick.

St. Louis **(4775', -1903):** **Covered in DST #6**
Ls. Off white/tan. Sub crystalline. Fair oomoldic porosity. Good stain. Fair saturation. Fair odor. Show of free oil when broken. 100 unit kick.

Drill Stem Tests
Trilobite Testing
“Chuck Smith & Jace McKinney”

DST #1

Lansing 'L'

Interval (4280' - 4322') Anchor Length 42'

IHP -2096 #

IFP - 30" – BOB in 3 min 61-484 #

ISI - 45" – No Return 1255 #

FFP - 30" – BOB in 4 min 483-785 #

FSIP - 45" - No return 1253 #

FHP - 2044 #

BHT - 118° F

Recovery: 468' OSMW
1222' MW

DST #2

Marmaton

Interval (4358' - 4454') Anchor Length 96'

IHP - 2172 #

IFP -30" - WSB died in 10 min 21-23 #

ISI -30" - No Return 133 #

FFP - 10" - No Blow 22-22 #

FSIP - Pull Tool NA

FHP - 2169 #

BHT - 109° F

Recovery: 5' Mud

DST #3

Pawnee

Interval (4443' - 4472') Anchor Length 29'

IHP - 2241 #

IFP -30" - 1/2" blow died to WSB 17-20 #

ISI -30" - No Return 120#

FFP -10" - No Blow 19-20 #

FSIP - Pull Tool NA

FHP - 2171 #

BHT - 109° F

Recovery: 1' Mud

DST #4**Cherokee**

Interval (4494' - 4528') Anchor Length 34'

IHP - 2234 #

IFP -30" - BOB in 21 min 25-34 #

ISI -45" - No Return 1137 #

FFP -45" - BOB in 10 min 37-50 #

FSIP -60" - No Return 1147 #

FHP - 2185 #

BHT - 115° F

Recovery: 75' MCWOG (30% Oil)

475' GIP

DST #5**Morrow**

Interval (4662' - 4707') Anchor Length 45'

IHP - 2374 #

IFP -30" - WSB 26-25 #

ISI -30" - No Return 56 #

FFP -10" - No Blow 24-25 #

FSIP - Pull Tool NA

FHP - 2325 #

BHT - 115° F

Recovery: 5' Mud

DST #6**St. Louis**

Interval (4770' - 4800') Anchor Length 30'

IHP - 2361 #

IFP - 30" - WSB built to 2.5" 24-30 #

ISI - 30" - No Return 912 #

FFP - 30" - Built to 8" 34-39 #

FSIP - 30" - No Return 413 #

FHP - 2306 #

BHT - 118° F

Recovery: 45' OCM (5% Oil)

140' GIP

Structural Comparison

	American Warrior, Inc. O'Brate-Finney #6-5 Sec. 5, T23s, R32w 357' FNL & 2497' FEL		American Warrior, Inc. O'Brate-Finney #4-5 Sec. 5, T23s, R32w 2662' FSL & 941' FWL		American Warrior, Inc. O'Brate-Finney #1-5 Sec. 5, T23s, R32w 742' FSL & 2310' FWL
Formation					
Heebner	3845' -973	+11	3846' -984	-4	3829' -969
Lansing	3892' -1020	+12	3894' -1032	-3	3877' -1017
Stark	4224' -1352	+10	4224' -1362	FL	4212' -1352
BKC	4359' -1487	+15	4364' -1502	+3	4350' -1490
Marmaton	4386' -1514	+12	4388' -1526	+1	4375' -1515
Pawnee	4465' -1593	+10	4465' -1603	-4	4449' -1589
Fort Scott	4488' -1616	+12	4490' -1628	-4	4472' -1612
Cherokee	4501' -1629	+17	4508' -1646	+2	4491' -1631
Morrow	4663' -1791	+21	4674' -1812	+7	4658' -1798
Miss	4706' -1834	+15	4712' -1849	-17	4677' -1817

Summary

The location for the O'Brate-Finney #6-5 well was found via 3-D seismic survey. The new well ran structurally as expected. Six drill stem tests were conducted, one of which did recover commercial quantities of oil from the St. Louis Limestone 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 #6-5 well.

Perforations

Primary:	St. Louis	(4776' - 4784')
Secondary:	Cherokee	(4507' - 4510')
Before Abandonment:	Fort Scott	(4493' - 4497')
	Pawnee	(4471' - 4474')
	Lansing 'L'	(4283' - 4285')
Disposal:	Platsmouth	(3825' - 3845')

