

Geological Report

American Warrior, Inc.

O'Brate-FLB #2-29

493' FNL & 439' FWL

Sec 29, T25s, R31w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-FLB #2-29
493' FNL & 439' FWL
Sec. 29, T25s, R31w
Finney County, Kansas
API # 15-055-22440-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: October 6, 2016

Completion Date: October 18, 2016

Elevation 2844' G.L.
2855' K.B.

Directions: From the intersection of Highway 50 and Main St. in Pierceville, KS, go 3.8 miles south to Parallel Rd, go West 3 miles to trail, now go North 1.5 miles to white gate, go through gate and West 1 miles, go North about 2000', then east into location.

Casing: 1660' 8 5/8" #23 Surface Casing
5023' 5 1/2" #15.5 Production Casing

Samples: 3900' to RTD 10' Wet & Dry

Drilling Time: 3800' to RTD

Electric Logs: Pioneer Energy Services "J. Long"
Stack Micro

Drillstem Tests: Two-Trilobite Testing "Jim Svaty"

Problems: none encountered

Formation Tops

O'Brate-FLB #2-29

Sec. 29, T25s, R31w

493' FNL & 439' FWL

Anhydrite	1856' +999
Base	1924' +931
Heebner	3932' -1077
Lansing	3982' -1127
Stark	4357' -1502
Bkc	4479' -1624
Marmaton	4502' -1647
Pawnee	4584' -1729
Fort Scott	4611' -1756
Cherokee	4622' -1767
Morrow	4776' -1921
Miss	4800' -1945
RTD	5050' -2195
LTD	5050' -2195

Sample Zone Descriptions

Marmaton (4505', -1650): Covered in DST #1

Limestone, cream, sub to fine crystalline, chalky, slightly oolitic, poor, pinpoint vuggy porosity, very strong odor, slight show of free oil in porosity, poor to fair stream cut. Gas 100 units hotwire.

Fort Scott (4628', -1773): Covered in DST #2

Limestone, tan/cream, fine-sub crystalline, sub oolitic fossil hash, slightly chalky, slight odor, very poor fracture porosity, very slight show of free oil in porosity, fair stream cut. Gas 90 units hotwire.

Pawnee (4590', -1735): Not Covered in DST

Limestone, cream/white, sub crystalline oolitic packstone, chalky, tight, very slight odor, poor oolitic porosity, poor show of free oil in porosity, poor slow stream cut. Gas 75 units hotwire.

Atoka (4760', -1905): Not Covered in DST

Limestone, cream, fine crystalline, very slight odor, poor fracture & pinpoint vuggy porosity, very slight show of free oil in porosity, slow string cut. Gas 95 units hotwire.

Drill Stem Tests

Trilobite Testing

“Jim Svaty”

DST #1

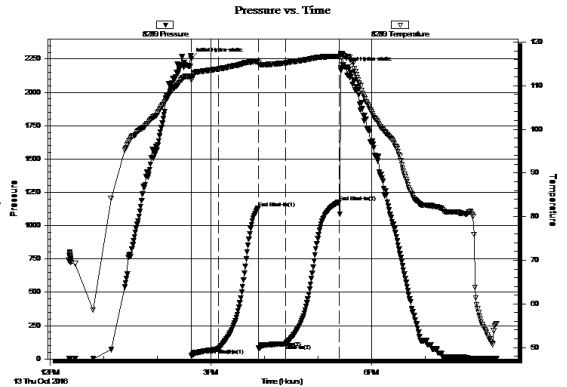
Marmaton

Interval (4468' – 4535') Anchor Length 67'

IHP - 2250 #	
IFP - 30" – BOB in 9 min	25-75#
ISI - 45" – WSB in 3 min	1131#
FFP - 30" – BOB 45 sec	83-113#
FSIP - 60" – built to 1 3/4" in 5 min	1178#
FHP - 2185 #	
BHT - 117° F	

Recovery: 434' GIP

62' GCOM	10% O
62' GOCM	15% O
62' GOCM	25% O
14' OCM	5% O



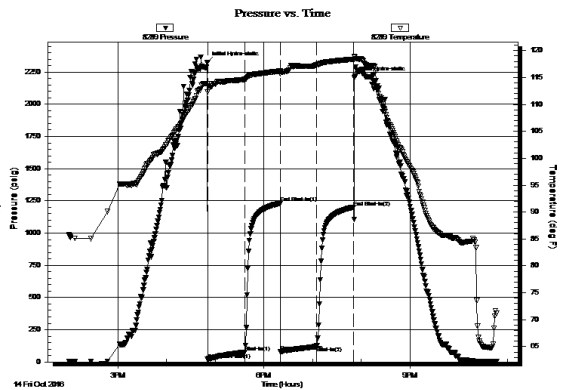
DST #1

Fort Scott

Interval (4602' – 4635') Anchor Length 33'

IHP - 2325 #	
IFP - 45" – built to 2 1/2"	19-75#
ISI - 45" – No return	1232#
FFP - 45" – WSB in 14 min built to 1"	83-120#
FSIP - 45" – No return	1201#
FHP - 2206 #	
BHT - 119° F	

Recovery: 225' OSMCW



Structural Comparison

	American Warrior, Inc. O'Brate-FLB #2-29 Sec. 29, T25s, R31w 493' FNL & 439' FWL		American Warrior, Inc. O'Brate-FLB #1-29 Sec. 29, T25s, R31w 1626' FNL & 1890' FWL		American Warrior, Inc. O'Brate-Beach #1-22 Sec. 22, T25s, R31w 975' FSL & 1980' FEL
Formation					
Heebner	3932' -1077	+7	3932' -1084	+45	3931' -1122
Lansing	3982' -1127	+3	3978' -1130	+44	3980' -1171
Stark	4357' -1502	+10	4360' -1512	+43	4354' -1545
BKC	4479' -1624	+10	4482' -1634	+43	4476' -1667
Marmaton	4502' -1647	+9	4504' -1656	+38	4494' -1685
Pawnee	4584' -1729	+5	4582' -1734	+34	4572' -1763
Fort Scott	4611' -1756	+5	4609' -1761	+33	4598' -1789
Cherokee	4622' -1767	+7	4622' -1774	+38	4614' -1805
Morrow	4776' -1921	+5	4774' -1926	+32	4762' -1953
Miss	4800' -1945	+1	4794' -1946	+16	4770' -1961

Summary

The location for the O'Brate-FLB #2-29 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem test 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-FLB #2-29 well.

Perforations

Primary:	Marmaton	(4532' – 4536')
	Marmaton	(4567' – 4570')
Secondary:	Pawnee	(4586' – 4592')
	Fort Scott	(4615' – 4617')

Before Abandonment:	Atoka	(4757' – 4761')
	Miss	(4980' – 4984')

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.