

Geological Report

American Warrior, Inc.

Congdon #11-28

652' FSL & 2087' FEL

Sec. 28, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Congdon #11-28
652' FSL & 2087' FEL
Sec. 28, T23s, R32w
Finney County, Kansas
API # 15-055-22273-00-00

Drilling Contractor: Duke Drilling Co. Rig #1

Geologist: Kevin Timson

Spud Date: January 14, 2014

Completion Date: January 25, 2014

Elevation 2841' G.L.
2853' K.B.

Directions: From Garden City, KS, at the intersection of Mary St. and Jennie Barker St. Go North on Jennie Barker 2 miles to Rodkey Rd. Go West ¼ mile on Rodkey and North into location.

Casing: 1112' 8 5/8" #24 Surface Casing
4845' 5 ½" #17 Production Casing

Samples: 4400' to RTD 10' Wet & Dry

Drilling Time: 3800' to RTD

Electric Logs: Pioneer Energy Services "Y. Ruiz"
Full Sweep

Drillstem Tests: One-Trilobite Testing "Bradley Walter"

Problems: Hit bridge with test tool and logging tool.

Formation Tops

Congdon #11-28

Sec. 28, T23s, R32w

652' FSL & 2087' FEL

Anhydrite	1879' +974
Base	1961' +892
Heebner	3844' -991
Lansing	3889' -1036
Stark	4253' -1400
Bkc	4407' -1554
Marmaton	4433' -1580
Pawnee	4489' -1636
Fort Scott	4519' -1666
Cherokee	4531' -1678
Morrow	4694' -1841
St. Louis	4723' -1870
RTD	4850' -1997
LTD	4851' -1998

Sample Zone Descriptions

Morrow (4694', -1841): **Covered in DST #1**

Ss. Grey glauconitic. Med to coarse grain. Moderate to well rounded. Dirty. Good stain. Good saturation. Fair show of free oil. Strong odor. 90 Unit gas kick.

St. Louis (4723', -1870): **Not Tested**

Ls. Off-White, Tan. Sub-Med crystalline. Fair oolycastic and oomodlic porosity. Fair stain and fair saturation in porosity. Show of free oil when broken. Fair odor. 50 Unit gas kick.

Drill Stem Tests
 Trilobite Testing
 “Bradley Walter”

DST #1

Morrow

Interval (4690’ - 4720’) Anchor Length 30’

IHP -2368 #
 IFP - 30” – BOB in 2 ½ min 56-121 #
 ISI - 45” – BOB in 26 min 1465 #
 FFP - 45” – BOB immediately: GTS in 5 min 138-235 #
 FSIP - 60” – BOB in 10 min 1421 #
 FHP - 2272 #
 BHT - 118° F

Recovery: 60’ GO (60% Oil) Gravity: 27
 60’ GMCO (45% Oil)
 60’ GOCM (30% Oil)

Structural Comparison

	American Warrior, Inc. Congdon #11-28 Sec. 28, T23s, R32w 652’ FSL & 2087’ FEL		American Warrior, Inc. Congdon #10-28 Sec. 28, T23s, R32w 335’ FSL & 1248’ FEL		American Warrior, Inc. Congdon #6-28 Sec 28, T23s, R32w 942’ FSL & 1745’ FEL
Formation					
Heebner	3844’ -991	+10	3859’ -1001	+1	3845’ -992
Lansing	3889’ -1036	+7	3901’ -1043	FL	3889’ -1036
Stark	4253’ -1400	+4	4262’ -1404	-1	4252’ -1399
BKC	4407’ -1554	+1	4413’ -1555	-7	4400’ -1547
Marmaton	4433’ -1580	+2	4440’ -1582	-6	4427’ -1574
Pawnee	4489’ -1636	-1	4493’ -1635	-10	4479’ -1626
Fort Scott	4519’ -1666	+3	4527’ -1669	-6	4513’ -1660
Cherokee	4531’ -1678	+3	4539’ -1681	-5	4526’ -1673
Morrow	4694’ -1841	+8	4707’ -1849	-1	4693’ -1840
St. Louis	4723’ -1870	+60	4788’ -1930	-11	4712’ -1859

Summary

The location for the Congdon #11-28 well was found via 3-D seismic survey. The new well ran structurally as expected. One drill stem test was conducted, which recovered commercial quantities of oil from the Morrow Sandstone formation. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Congdon #11-28 well.

Perforations

Primary:

St. Louis **(4788' - 4794')**

Secondary:

Morrow **(4697' - 4701')**

Before Abandonment

Morrow **(4712' - 4718')**

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

