

Geological Report

American Warrior, Inc.

Congdon #10-28

335' FSL & 1248' FEL

Sec. 28, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Congdon #10-28
335' FSL & 1248' FEL
Sec. 28, T23s, R32w
Finney County, Kansas
API # 15-055-22264-00-00

Drilling Contractor: Duke Drilling Co. Rig #1

Geologist: Kevin Timson

Spud Date: December 14, 2013

Completion Date: January 2, 2014

Elevation 2846' G.L.
2858' 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: 1115' 8 5/8" #23 Surface Casing
4849' 5 ½" #15.5 Production Casing

Samples: 3800' to RTD 10' Wet & Dry

Drilling Time: 3800' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"
Full Sweep

Drillstem Tests: Two-Trilobite Testing "Shane McBride & Shane Hamel"

Problems: None

Formation Tops

Congdon #10-28

Sec. 28, T23s, R32w

335' FSL & 1248' FEL

Anhydrite	1890' +968
Base	1974' +884
Heebner	3859' -1001
Lansing	3901' -1043
Stark	4262' -1404
Bkc	4413' -1555
Marmaton	4440' -1582
Pawnee	4493' -1635
Fort Scott	4527' -1669
Cherokee	4539' -1681
Morrow	4707' -1849
St. Louis	4788' -1930
RTD	4850' -1992
LTD	4851' -1993

Sample Zone Descriptions

Pawnee (4493', -1635): Covered in DST #1

Ls. Tan. Sub crystalline. Fair to good oomoldic and oolycastic porosity. Fair stain and poor saturation in porosity. Very slight show of free oil when broken. Fair odor.

Morrow (4707',-1849): Covered in DST #2

Ss. Grey. Fine to coarse grain. Moderately sorted and well rounded. Good stain and good saturation. Good show of free oil when broken. Strong odor. Glauconitic.

Drill Stem Tests
Trilobite Testing
“Shane McBride & Bob Hamel”

DST #1

Pawnee

Interval (4483’ - 4507’) Anchor Length 24’

IHP	-2254 #	
IFP	- 30” – 3 ½” blow	50-51 #
ISI	- 30” – No return	1111 #
FFP	- 30” – 3 ½” blow	71-66 #
FSIP	- 30” – No return	1080 #
FHP	- 2149 #	
BHT	- 107° F	

Recovery: 195’ Weak gas in pipe
45’ Mud with oil spots

DST #2

Morrow

Interval (4642’ - 4720’) Anchor Length 78’

IHP	-2363 #	
IFP	- 30” – BOB in 3 min	103-313#
ISI	- 45” – BOB in 20 min	1037 #
FFP	- 45” – BOB in 4 min	341-574 #
FSIP	- 60” – BOB in 8 min	1036 #
FHP	- 2311 #	
BHT	- 117° F	

Recovery: 2520’ GIP
1638 Total feet mostly oil

Structural Comparison

	American Warrior, Inc. Congdon #10-28 Sec. 28, T23s, R32w 335' FSL & 1248' FEL		American Warrior, Inc. Congdon #5 Sec. 28, T23s, R32w SE SE SE		American Warrior, Inc. Congdon #6-28 Sec 28, T23s, R32w 942' FSL & 1745' FEL
Formation					
Heebner	3859' -1001	+32	3917' -1033	-9	3845' -992
Lansing	3901' -1043	+37	3964' -1080	-7	3889' -1036
Stark	4262' -1404	+35	4323' -1439	-5	4252' -1399
BKC	4413' -1555	+21	4460' -1576	-8	4400' -1547
Marmaton	4440' -1582	+24	4490' -1606	-8	4427' -1574
Pawnee	4493' -1635	+44	4563' -1679	-9	4479' -1626
Fort Scott	4527' -1669	+47	4600' -1716	-9	4513' -1660
Cherokee	4539' -1681	+47	4612' -1728	-8	4526' -1673
Morrow	4707' -1849	+46	4779' -1895	-9	4693' -1840
St. Louis	4788' -1930	+15	4829' -1945	-19	4712' -1859

Summary

The location for the Congdon #10-28 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, one of which recovered commercial quantities of oil from 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 #10-28 well.

Perforations

Primary: (4710'-4716' & 4718'-4722')

Morrow

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

