

Geological Report

American Warrior, Inc.

Congdon #8-28

1673' FSL & 1057' FWL

Sec. 28, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Congdon #8-28
1673' FSL & 1057' FWL
Sec. 28, T23s, R32w
Finney County, Kansas
API # 15-055-22259-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: March 13, 2014

Completion Date: March 22, 2014

Elevation 2842' 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 $\frac{3}{4}$ mile on Rodkey and North into location.

Casing: 1731' 8 5/8" #24 Surface Casing
4836' 5 1/2" #15.5 Production Casing

Samples: 4400' to RTD 10' Wet & Dry

Drilling Time: 3800' to RTD

Electric Logs: Pioneer Energy Services "J. Long"
Stacked-Micro

Drillstem Tests: Two-Trilobite Testing "Jace McKinney"

Problems: Pipe tally off 100', corrected after DST #1

Formation Tops

Congdon #8-28

Sec. 28, T23s, R32w

1673' FSL & 1057' FWL

Anhydrite	1861' +992
Base	1947' +906
Heebner	3822' -969
Lansing	3864' -1011
Stark	4224' -1371
Bkc	4358' -1505
Marmaton	4384' -1531
Pawnee	4465' -1612
Fort Scott	4489' -1636
Cherokee	4503' -1650
Morrow	4671' -1818
Miss	4682' -1829
RTD	4850' -1997
LTD	4845' -1992

Sample Zone Descriptions

Cherokee (4503', -1650): Covered in DST #1

Ls. Tan. Medium to sub crystalline. Fair oomoldic and good oolycastic porosity. Fair to good stain. Fair saturation. Show of free oil when broken. Fair odor. 35 unit kick.

St. Louis (4682', -1829): Covered in DST #2

Ls. Tan. Sub crystalline. Fair to good oomoldic and oolycastic porosity. Good stain and good saturation in porosity. Show of free oil when broken. Fair odor. 75 Unit kick.

Drill Stem Tests
Trilobite Testing
“Jace McKinney”

DST #1

Cherokee

Interval (4483’ - 4578’) Anchor Length 95’

IHP	-2235 #	
IFP	- 45” – Built to 6” blow	56-78 #
ISI	- 45” – No return	1205 #
FFP	- 45” – Built to 5 ½” blow	80-86 #
FSIP	- 45” – No return	1105 #
FHP	- 2193 #	
BHT	- 108° F	

Recovery: 140’ Mud with oil scum

DST #2

St. Louis

Interval (4760’ – 4787’) Anchor Length 27’

IHP	-2386 #	
IFP	- 45” – Built to 10” blow	65-74 #
ISI	- 45” – No return	1037 #
FFP	- 45” – BOB in 21 min	70-84 #
FSIP	- 45” – WSB	1013 #
FHP	- 2353 #	
BHT	- 114° F	

Recovery: 180’ MCGO (60% Oil)
590’ Weak GIP

Structural Comparison

	American Warrior, Inc. Congdon #8-28 Sec. 28, T23s, R32w 1673' FSL & 1057' FWL		American Warrior, Inc. Congdon #7-28 Sec. 28, T23s, R32w 694' FSL & 1683' FWL		Amoco Production Co. O.G. Congdon #2 Sec 28, T23s, R32w C NE SW
Formation					
Heebner	3822' -969	+12	3833' -981	+9	3842' -978
Lansing	3864' -1011	+14	3877' -1025	+11	3886' -1022
Stark	4224' -1371	+13	4236' -1384	+15	4250' -1386
BKC	4358' -1505	+14	4371' -1519	+17	4386' -1522
Marmaton	4384' -1531	+15	4398' -1546	+21	4416' -1552
Pawnee	4465' -1612	+14	4478' -1626	+11	4487' -1623
Fort Scott	4489' -1636	+15	4503' -1651	+12	4512' -1648
Cherokee	4503' -1650	+17	4519' -1667	+14	4528' -1664
Morrow	4671' -1818	+16	4686' -1834	+12	4694' -1830
St. Louis	4682' -1829	+13	4694' -1842	+18	4711' -1847

Summary

The location for the Congdon #8-28 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 the St. Louis Limestone. After all the gathered data had been examined, the decision was made to run 5 1/2" production casing to further evaluate the Congdon #8-28 well.

Perforations

Primary:

St. Louis (4774' – 4780')

Secondary:

Cherokee (4510' – 4514')

Before Abandonment:

Fort Scott (4497' – 4500')

Pawnee (4467' – 4472')

