

Geological Report

American Warrior, Inc.

Gano #6-17

1648' FSL & 837' FWL

Sec 17, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Gano #6-17
1648' FSL & 837' FWL
Sec. 17, T25s, R36w
Kearny County, Kansas
API # 15-093-21959-00-00

Drilling Contractor: Duke Drilling Co. Rig #7

Geologist: Luke Thompson

Spud Date: June 8, 2017

Completion Date: June 22, 2017

Elevation 3029' G.L.
3042' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 3.3 miles South on Hwy 25 – Now go 0.7 mile West on Rd.120 – Now go 1 mile South on Rd. S – Now go 1.5 mile West on Rd. 110 to the lease road – South into by steel grain bins, Now go South 0.6 miles to pump jack, then west 1000' to location.

Casing: 1829' 8 5/8" #23 Surface Casing
5045' 5 1/2" #17 Production Casing

Samples: 3450' to RTD 10' Wet & Dry

Drilling Time: 3400' to RTD

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

Drillstem Tests: Four-Trilobite Testing "Chris Hagman"

Problems: none encountered

Formation Tops

Gano #6-17

Sec. 17, T25s, R36w

1648' FSL & 837' FWL

Heebner	3630' -588
Toronto	3643' -601
Lansing	3675' -633
Stark	4019' -977
Bkc	4188' -1146
Marmaton	4209' -1146
Pawnee	4310' -1268
Fort Scott	4343' -1301
Cherokee	4354' -1312
Morrow	4653' -1611
Miss	4793' -1751
RTD	5050' -2008
LTD	5051' -2009

Sample Zone Descriptions

Toronto (3650' -608): **Covered in DST #1**
Limestone, cream/tan, sub crystalline, scattered chalky, fair pinpoint vuggy porosity, strong odor, fair show of free oil in porosity, fair stain, fair to good saturation, good stream to flush cut. Gas 30 units hotwire.

Lansing D (3800' -758): **Covered in DST #2**
Limestone, tan, sub crystalline, slight chalky, scattered Dolomitic recrystallization, fair pinpoint vuggy porosity, strong odor, fair stain, fair to good saturation, fair slow flush cut. Gas 45 units hotwire.

Marmaton (4270' -1228): **Covered in DST #3**
Limestone, cream/tan, oolitic packstone, chalky, scattered oolitic fragments, fair oolitic porosity, strong odor, fair stain, fair saturation, show of free oil in porosity, fair stream cut. Gas 100+ units hotwire.

St. Gen (4840' -1798): **Covered in DST #4**
Limestone, tan to light grey, sub crystalline, chalky, oolitic grainstone, slightly sandy, poor oolitic porosity, very slight to no odor, poor stain, poor saturation, show of free oil when broke, poor slow string cut. Gas 15 units hotwire.

St. Louis (4930' -1888): **Covered in DST #4**
Limestone, tan, sub crystalline, oolitic packstone, chalky, poor oolitic porosity, very slight fleeting odor, very slight show of free oil when broke, very poor to no stain, poor saturation, poor slow string cut. Gas 20 units hotwire.

Drill Stem Tests

Trilobite Testing
"Chris Hagman"

DST #1 Toronto

Interval (3636' – 3660') Anchor Length 24'

IHP - 1715 #

IFP - 30" – BOB 1 ½ min

ISI - 45" – No Return

FFP - 45" – BOB 5 min

FSIP - 60" – No Return

FHP - 1664 #

BHT - 105° F

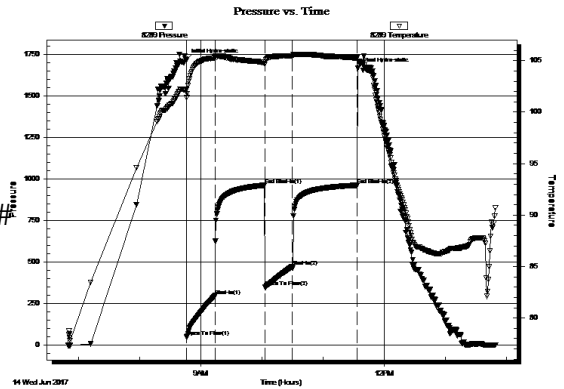
Recovery: 903' GW 2% G

50-297#

961#

348-473#

961#



DST #2 Lansing D (straddle test)

Interval (3782' – 3812') Anchor Length 30', Tail Pipe 18'

IHP - 1804 #

IFP - 30" – 1 ½" in 30 min

ISI - 30" – No Return

FFP - 30" – ½" in 30 min

FSIP - 30" – No Return

FHP - 1754 #

BHT - 107° F

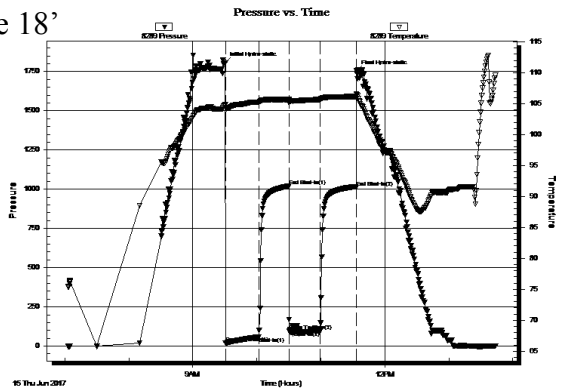
Recovery: 188' GWMCO 5% G 45% O

18-59#

1019#

96-96#

1012#



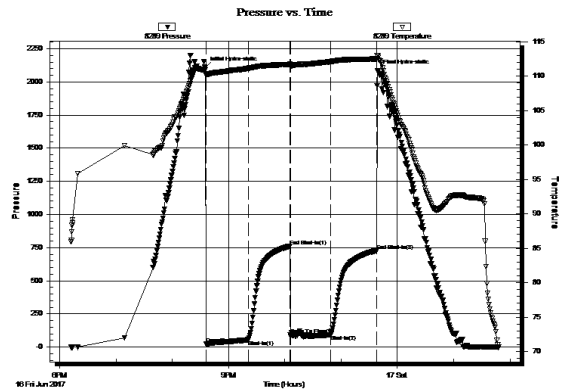
DST #3

Marmaton

Interval (4260' – 4288') Anchor Length 28'

- IHP - 2106 #
- IFP - 45" – 4" in 45 min 21-55#
- ISI - 45" – No Return 761#
- FFP - 45" – 1/2" in 45 min 89-93#
- FSIP - 45" – No Return 728#
- FHP - 2082 #
- BHT - 113° F

Recovery: 62' GIP
183' GOCMW 5% G 20% O



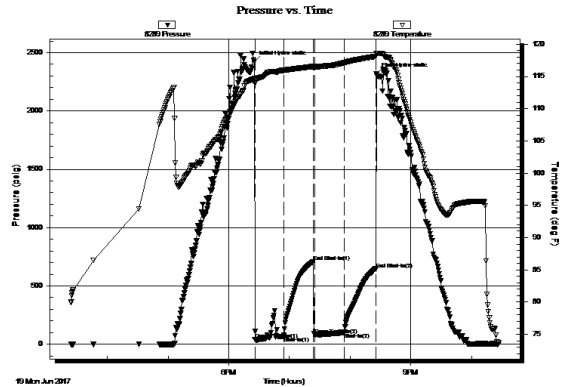
DST #4

St. Gen – St. Louis

Interval (4815' – 4965') Anchor Length 150'

- IHP - 2424 #
- IFP - 30" – 2" in 30 min 39-66#
- ISI - 30" – No Return 710#
- FFP - 30" – WSB 82-99#
- FSIP - 30" – No Return 645#
- FHP - 2316 #
- BHT - 118° F

Recovery: 183' WM w/oil spots



Structural Comparison

	American Warrior, Inc. Gano #6-17 Sec. 17, T25s, R36w 1648' FSL & 837' FSL		American Warrior, Inc. Gano #4-17 Twin Sec. 17, T25s, R36w 2273' FSL & 1806' FWL		American Warrior, Inc. Gano #3-17 Sec. 17, T25s, R36w 1512' FSL & 2603' FEL
Formation					
Heebner	3630' -588	-2	3622' -586	+3	3627' -591
Lansing	3675' -633	-1	3668' -632	+5	3674' -638
Stark	4019' -977	-2	4011' -975	+5	4018' -982
BKC	4188' -1146	-3	4179' -1143	0	4182' -1146
Marmaton	4209' -1167	-5	4198' -1162	+3	4206' -1170
Pawnee	4310' -1268	-3	4301' -1265	+3	4307' -1271
Fort Scott	4343' -1301	-1	4336' -1300	+3	4340' -1304
Cherokee	4354' -1312	-2	4346' -1310	+3	4351' -1315
Morrow	4653' -1611	-4	4643' -1607	-4	4643' -1607
Miss	4793' -1751	+1	4788' -1752	-1	4788' -1752

Summary

The location for the Gano #6-17 well was found via 3-D seismic survey. The new well ran structurally as expected. Four drill stem tests 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 Gano #6-17 well.

Perforations

Primary:	#1	Lansing H	(3918' – 3936')	Not Tested
	#2	Lansing E	(3820' – 3824')	Not Tested
	#3	Lansing D	(3795' – 3801')	DST #2
Secondary:	#4	Lansing A	(3674' – 3680')	Not Tested
	#5	Lansing A	(3683' – 3686')	Not Tested

Before Abandonment:	#6 St. Louis A	(4831' – 4835')	DST #4
	#7 Pawnee	(4316' – 4322')	Not Tested
	#8 Marmaton	(4270' – 4276')	DST #3

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.