

Geological Report

KT #1-25

1800' FNL & 1200' FEL

Sec. 25 T20s R22w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
KT #1-25
1800' FNL & 1200' FEL
Sec. 25 T20s R22w
Ness County, Kansas
API # 15-125-25978-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #4

Geologist: Jason T Alm

Spud Date: November 10, 2017

Completion Date: November 17, 2017

Elevation: 2181' Ground Level
2189' Kelly Bushing

Directions: Bazine KS, South 11 mi. to 20 Rd. West ¼ mi.
South into location.

Casing: 213' 8 5/8" surface casing
4336' 5 1/2" production casing

Samples: 10' wet and dry, 3650' to RTD

Drilling Time: 3650' to RTD

Electric Logs: Pioneer Energy Services "J. Hendrickson"
CNL/CDL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Ken Swinney"

Problems: None

Remarks: There was 3 ft. of fill in the hole during log. LTD
was 3 ft. shallow of RTD.

Formation Tops

	American Warrior, Inc. KT #1-25 Sec. 25 T20s R22w 1800' FNL & 1200' FEL
Formation	
Anhydrite	1376' +813
Base	1409' +780
Heebner	3682' -1493
Lansing	3728' -1539
BKC	4044' -1855
Pawnee	4164' -1975
Fort Scott	4235' -2046
Cherokee	4260' -2071
Mississippian	4305' -2116
Osage	4326' -2137
LTD	4333' -2144
RTD	4336' -2147

Sample Zone Descriptions

- Fort Scott (4235', -2046): Covered in DST #1**
 Ls – Fine crystalline with poor to scattered fair inter-crystalline and vuggy porosity, light to fair oil stain and saturation in porosity, fair show of free oil, fair odor, bright yellow fluorescents, 45 units hotwire.
- Mississippian Osage (4326', -2137): Covered in DST #2**
 Δ – Angular, mostly fresh, few pieces with scattered poor to fair vuggy porosity, light to good oil stain in porosity, fair show of free oil on cup, good odor, scattered bright yellow fluorescents, 55 units hotwire.

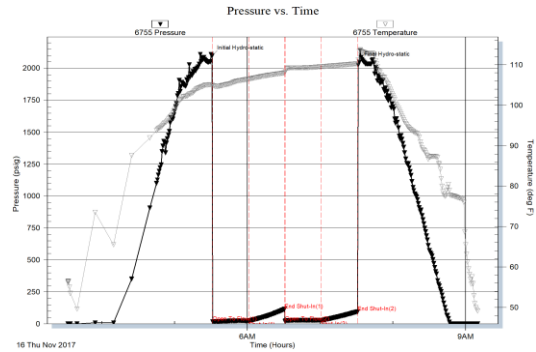
Drill Stem Tests
 Trilobite Testing, Inc.
 "Ken Swinney"

DST #1 Fort Scott

Interval (4210' – 4268') Anchor Length 58'

IHP	– 2097 #	
IFP	– 30" – Built to 1 in.	17-25 #
ISI	– 30" – Dead	115 #
FFP	– 30" – Built to 3 in.	18-29 #
FSI	– 30" – Dead	96 #
FHP	– 2047 #	
BHT	– 113°F	

Recovery: 30' Mud with oil spots

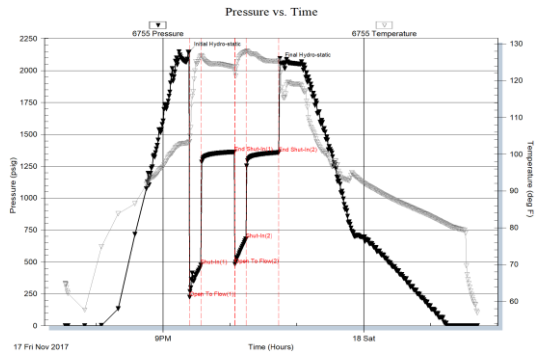


DST #2 Mississippian Osage

Interval (4281' – 4336') Anchor Length 55'

IHP	– 2145 #	
IFP	– 10" – B.O.B. 1 ½ min.	225-476 #
ISI	– 30" – Dead	1363 #
FFP	– 30" – B.O.B. 2 min.	483-681 #
FSI	– 30" – Dead	1359 #
FHP	– 2059 #	
BHT	– 127°F	

Recovery: 124' GIP 85% Oil
 248' GCMO 70% Oil, 10% Water
 868' MWCGO 10% Oil, 75% Water
 186' OCMW 10% Oil, 5% Water
 124' WCOM



Structural Comparison

Formation	American Warrior, Inc. KT #1-25 Sec. 25 T20s R22w 1800' FNL & 1200' FEL	Natural Gas & Oil Cook #1 Sec. 25 T20s R22w C NE NE		Thunderbird DRLG Bondurant D #1 Sec. 30 T20s R21w C SW NW	
Anhydrite	1376' +813	1400' +795	(+18)	1413' +819	(-6)
Base	1409' +780	NA	NA	1446' +786	(-6)
Heebner	3682' -1493	3698' -1503	(+10)	3723' -1491	(-2)
Lansing	3728' -1539	3745' -1550	(+11)	3774' -1542	(-3)
BKC	4044' -1855	4065' -1870	(+15)	4088' -1856	(+1)
Pawnee	4164' -1975	4188' -1993	(+18)	4215' -1983	(+8)
Fort Scott	4235' -2046	4259' -2064	(+18)	4281' -2049	(+3)
Cherokee	4260' -2071	4283' -2088	(+17)	4306' -2074	(+3)
Mississippian	4305' -2116	4326' -2131	(+15)	4358' -2126	(+10)
Osage	4326' -2137	4352' -2157	(+20)	4378' -2146	(+9)

Summary

The location for the KT #1-25 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the KT #1-25 well.

Recommended Perforations

Primary:

Mississippian Osage (4328' – 4332') DST #2

Before Abandonment:

Fort Scott (4247' – 4252') DST #1

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.