

Geological Report

American Warrior, Inc.

Kathryn #2-1

1800' FSL & 1850' FEL

Sec. 1 T20s R21w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Kathryn #2-1
1800' FSL & 1850' FEL
Sec. 1 T20s R21w
Ness County, Kansas
API # 15-135-25846-0000

Drilling Contractor: Discovery Drilling Rig #3

Geologist: Jason T Alm

Spud Date: January 5, 2015

Completion Date: January 12, 2015

Elevation: 2245' Ground Level
2253' Kelly Bushing

Directions: Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 8
mi South to 50 Rd. East 1 ½ mi, North into location.

Casing: 220' 8 5/8" surface casing
4390' 5 1/2" production casing

Samples: 10' wet and dry, 4000' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Brett Dickinson"

Problems: None

Remarks: None

Formation Tops

Formation	American Warrior, Inc.
	Kathryn #2-1
	Sec. 1 T20s R21w
	1800' FSL & 1850' FEL
Anhydrite	1457', +796
Base	1486', +767
Heebner	3764', -1511
Lansing	3815', -1562
BKc	4146', -1893
Pawnee	4273', -2020
Fort Scott	4295', -2042
Cherokee	4311', -2058
Mississippian	4370', -2117
RTD	4391', -2138

Sample Zone Descriptions

Mississippian Osage (4370', -2117): **Covered in DST #1**

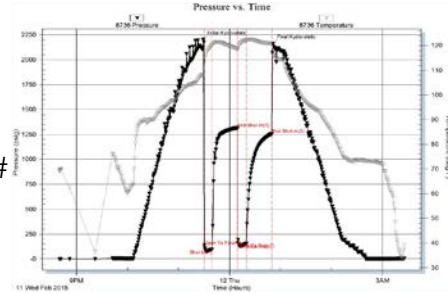
Δ – Dolo – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy weathered chert with good vuggy porosity, light to good oil stain and saturation, good show of free oil, good odor, fair to bright yellow fluorescents, 31-63 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
"Brett Dickinson"

DST #1 Mississippian Osage

Interval (4374' – 4388') Anchor Length 14'

- IHP – 2200 #
- IFP – 10" – B.O.B. 2 min. 136-96 #
- ISI – 30" – Built to 2 ½ in. 1316 #
- FFP – 10" – B.O.B. 3 ½ min. 159-151 #
- FSI – 30" – Built to 4 in. 1257 #
- FHP – 2160 #
- BHT – 122°F



Recovery: 215' GIP
 255' GCO
 90' GSMCO 80% Oil

Structural Comparison

	American Warrior, Inc. Kathryn #2-1 Sec. 1 T20s R21w 1800' FSL & 1850' FEL	American Warrior, Inc. Kathryn #2-1 Sec. 1 T20s R21w 2250' FSL & 1600' FEL		Ritchie A Scott Young Kathryn #1 Sec. 1 T20s R21w 2310' FSL & 1980' FEL	
Formation					
Anhydrite	1457', +796	1458', +794	(+2)	1462', +791	(+5)
Base	1486', +767	1482', +770	(-3)	1491', +762	(+5)
Heebner	3764', -1511	3762', -1510	(-1)	3777', -1524	(+13)
Lansing	3815', -1562	3810', -1558	(-4)	3829', -1576	(+14)
BKc	4146', -1893	NA	NA	4160', -1907	(+14)
Pawnee	4273', -2020	4270', -2018	(-2)	NA	NA
Fort Scott	4295', -2042	4294', -2042	FL	4312', -2059	(+17)
Cherokee	4311', -2058	4311', -2059	(+1)	NA	NA
Mississippian	4370', -2117	4374', -2122	(+5)	4382', -2129	(+12)

Summary

The location for the Kathryn #2-1 was found via 3-D seismic survey. The new well ran structurally higher than expected via the survey. One Drill Stem Test was conducted 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 Kathryn #2-1 well.

Recommended Perforations

Mississippian Osage

(4370' – 4385')

DST #1

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.