

Geological Report

American Warrior, Inc.

Elmer's #1-19

550' FNL & 1920' FEL

Sec. 19 T17s R21w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Elmer's #1-19
550' FNL & 1920' FEL
Sec. 19 T17s R21w
Ness County, Kansas
API # 15-135-25675-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: December 20, 2013

Completion Date: January 10, 2014

Elevation: 2265' Ground Level
2273' Kelly Bushing

Directions: Bazine KS, at the intersection of Hwy 96 and
Austin St. North 8 mi. to 210 Rd. East ¼ mi. South
into location.

Casing: 222' 8 5/8" surface casing
4357' 5 1/2" production casing

Samples: 10' wet and dry, 3600' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "Daylan Kerr"
CNL/CDL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Cody Bloedorn"

Problems: None

Remarks: Rig set surface and shut down for the holidays.
They did not start back up until the January 4th.

Formation Tops

Formation	American Warrior, Inc.
	Elmer's #1-19
	Sec. 19 T17s R21w
	550' FNL & 1920' FEL
Anhydrite	1572', +701
Base	1607', +666
Heebner	3735', -1462
Lansing	3779', -1506
BKc	4051', -1778
Pawnee	4155', -1882
Fort Scott	4233', -1960
Cherokee	4247', -1974
Mississippian	4322', -2049
Osage	4338', -2065
LTD	4358', -2085
RTD	4358', -2085

Sample Zone Descriptions

Mississippian Osage (4338', -2065): Covered in DST #1, 2

Dolo – Δ – Fine sucrosic crystalline with poor to fair inter-crystalline and vuggy porosity, very heavy slightly triptolic chert, weathered with good scattered vuggy porosity, light to heavy oil stain in dolomite, fair show of free oil, light odor, fair to good yellow fluorescents.

Drill Stem Tests
Trilobite Testing, Inc.
"Cody Bloedorn"

DST #1

Mississippian Osage

Interval (4341' – 4348') Anchor Length 7'

IHP	- 2172 #	
IFP	- 45" – Built to 2 ½ in.	9-30 #
ISI	- 45" – W.S.B.	1153 #
FFP	- 45" – Built to 3 in.	34-44 #
FSI	- 45" – W.S.B.	1050 #
FHP	- 2130 #	
BHT	- 119°F	

Recovery: 30' GCO
62' OCMW 20% Oil, 40% Water

DST #2

Mississippian Osage

Interval (4347' – 4353') Anchor Length 6'

IHP	- 2180 #	
IFP	- 30" – Built to 1 in.	10-21 #
ISI	- 30" – Dead	1294 #
FFP	- 30" – Built to ¼ in.	22-27 #
FSI	- 30" – Dead	1280 #
FHP	- 2161 #	
BHT	- 119°F	

Recovery: 45' WM w/ show of oil 2% Water

Structural Comparison

	American Warrior, Inc. Elmer's #1-19 Sec. 19 T17s R21w 550' FNL & 1920' FEL	Leben Oil Corp. Wolfe #1 Sec. 19 T17s R21w 4620' FSL & 660' FEL		Bucklin William N III Stieben #1 Sec. 19 T17s R21w 330' FSL & 330' FEL	
Formation					
Anhydrite	1572', +701	1548', +705	(-4)	NA	NA
Base	1607', +666	1584', +669	(-3)	NA	NA
Heebner	3735', -1462	3714', -1461	(-1)	3678', -1458	(-4)
Lansing	3779', -1506	3758', -1505	(-1)	3725', -1505	(-1)
BKc	4051', -1778	NA	NA	NA	NA
Pawnee	4155', -1882	NA	NA	4100', -1880	(-2)
Fort Scott	4233', -1960	4218', -1965	(+5)	4186', -1966	(+6)
Cherokee	4247', -1974	4232', -1979	(+5)	4200', -1980	(+6)
Mississippian	4322', -2049	4314', -2061	(+12)	4275', -2055	(+6)
Osage	4338', -2065	4322', -2069	(+4)	NA	NA

Summary

The location for the Elmer's #1-19 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 Elmer's #1-19 well.

Recommended Perforations

Mississippian Osage	(4338' – 4348')	DST #1
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.