

Geological Report

American Warrior, Inc.

T. Isern #3-13

335' FNL & 1670' FEL

Sec. 13 T20s R21w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
T. Isern #3-13
335' FNL & 1670' FEL
Sec. 13 T20s R21w
Ness County, Kansas
API # 15-135-25739-0000

Drilling Contractor: Petromark Drilling, LLC. Rig #1

Geologist: Jason T Alm

Spud Date: February 20, 2014

Completion Date: February 28, 2014

Elevation: 2215' Ground Level
2221' Kelly Bushing

Directions: Bazine KS, East on Hwy 96 4 mi. to HH Rd. South
9 mi. to 40 Rd. 1 ½ mi. East, South into location.

Casing: 222' 8 5/8" surface casing
4384' 5 1/2" production casing

Samples: 10' wet and dry, 4050' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Bob Hamel"

Problems: None

Remarks: None

Formation Tops

	American Warrior, Inc.
	T. Isern #3-13
	Sec. 13 T20s R21w
	335' FNL & 1670' FEL
Formation	
Anhydrite	1418', +803
Base	1442', +779
Heebner	3740', -1519
Lansing	3790', -1569
BKc	4130', -1909
Pawnee	4261', -2040
Fort Scott	4284', -2063
Cherokee	4302', -2081
Mississippian	4362', -2141
RTD	4385', -2164

Sample Zone Descriptions

Mississippian Osage (4362', -2141): Covered in DST #1

Δ – Dolo – Fine sucrosic crystalline with poor to fair inter-crystalline and vuggy porosity, very heavy slightly triptolic chert with good scattered vuggy porosity, light to fair oil stain and saturation, slight to fair show of free oil, light odor, fair yellow fluorescents, 20-35 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
"Bob Hamel"

DST #1

Mississippian Osage

Interval (4365' – 4380') Anchor Length 15'

IHP	– 2256 #	
IFP	– 45" – Built to 2 ½ in.	17-44 #
ISI	– 45" – Dead	1031 #
FFP	– 45" – Built to 1 ¼ in.	47-62 #
FSI	– 45" – Dead	992 #
FHP	– 2115 #	
BHT	– 118°F	

Recovery: 65' CO
61' OCM 30% Oil

Structural Comparison

	American Warrior, Inc. T. Isern #3-13 Sec. 13 T20s R21w 335' FNL & 1670' FEL	American Warrior, Inc. T. Isern #1-13 Sec. 13 T20s R21w 450' FNL & 2210' FEL		Associate Petro. Consult. Isern #1 Sec. 13 T20s R21w SE NW NE	
Formation					
Anhydrite	1418', +803	1413', +802	(+1)	1405', +802	(+1)
Base	1442', +779	NA	NA	1428', +779	FL
Heebner	3740', -1519	3737', -1522	(+3)	3732', -1525	(+6)
Lansing	3790', -1569	3787', -1572	(+3)	3783', -1576	(+7)
BKc	4130', -1909	NA	NA	4122', -1915	(+6)
Pawnee	4261', -2040	NA	NA	NA	NA
Fort Scott	4284', -2063	4281', -2066	(+3)	4277', -2070	(+7)
Cherokee	4302', -2081	NA	NA	4295', -2088	(+7)
Mississippian	4362', -2141	4366', -2151	(+10)	4356', -2149	(+8)

Summary

The location for the T. Isern #3-13 was found via 3-D seismic survey. The new well ran structurally as 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 in. production casing to further evaluate the T. Isern #3-13 well.

Recommended Perforations

Mississippian Osage:	(4362' – 4382')	DST #1
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.