Geological Report

American Warrior, Inc.
Riedel C #1-31
2170' FNL & 2304' FEL
Sec. 31 T13s R19w
Ellis County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Riedel C #1-31 2170' FNL & 2304' FEL Sec. 31 T13s R19w Ellis County, Kansas API # 15-051-26667-0000
Drilling Contractor:	Discovery Drilling Co. Inc. Rig #3
Geologist:	Jason T Alm
Spud Date:	February 13, 2014
Completion Date:	February 18, 2014
Elevation:	2271' Ground Level 2279' Kelly Bushing
Directions:	Ellis KS, South on Ellis Blacktop to Victoria Rd. East 4 1/2 mi. North into location.
Casing:	211' 8 5/8" surface casing 3994' 5 1/2" production casing
Samples:	10' wet and dry, 3250' to RTD
Drilling Time:	3100' to RTD

None

None

Electric Logs:

Drillstem Tests:

Problems:

Remarks:

Pioneer Energy Services "Y. Ruiz" CNL/CDL, DIL, MEL

Two, Trilobite Testing, Inc. "Brett Dickinson"

Formation Tops

	American Warrior, Inc.
	Riedel C #1-31
	Sec. 31 T13s R19w
Formation	2170' FNL & 2304' FEL
Anhydrite	1559', +720
Base	1603', +676
Topeka	3269', -990
Heebner	3522', -1243
Toronto	3542', -1263
Lansing	3562', -1283
BKc	3806', -1527
Marmaton	3845', -1566
Arbuckle	3893', -1614
LTD	3995', -1716
RTD	3993', -1714

Significant Sample Zone Descriptions

LKc "C" zone (3590', -1311) Not Tested

Ls – Fine to sub-crystalline, oolitic with poor oomoldic and vuggy porosity, light scattered oil stain in porosity, no show of free oil, no odor, no fluorescents.

LKc "I" zone (3719', -1440) Covered in DST #1

Ls – Fine to sub-crystalline, oolitic with poor oomoldic and oolicastic porosity, light to fair oil stain and saturation, slight show of free oil, light odor.

LKc "J" zone (3738', -1459) Covered in DST #1

Ls – Fine crystalline, oolitic packstone with fair to good oomoldic porosity, light to heavy oil stain and saturation, fair show of free oil, light odor, light to fair yellow fluorescents.

LKc "K" zone (3762', -1483) Not Tested

Ls – Fine crystalline, oolitic packstone with poor oomoldic and oolicastic porosity, light to good oil stain and saturation, fair show of free oil, light odor.

Arbuckle (3893', -1614): Covered in DST #2

Dolo – Fine to coarse rhombic crystalline with fair to good intercrystalline and vuggy porosity, light to heavy oil stain and saturation in porosity, good show of free oil, good odor, fair to good cut fluorescents, fairly heavy oolitic chert.

Drill Stem Tests

Trilobite Testing, Inc. "Brett Dickinson"

DST #1 Lansing-Kansas City "H thru J" zones

Interval (3673' – 3755') Anchor Length 82'

IHP - 1774 #

IFP - 45" - B.O.B. 29 min. 15-42 #
ISI - 45" - W.S.B. 872 #
FFP - 45" - B.O.B. Immediately 36-64 #
FSI - 45" - W.S.B. 940 #

FHP - 1718 # BHT - 109°F

Recovery: 385' GIP

115' GOCM 30% Oil

DST #2 <u>Arbuckle</u>

Interval (3851' – 3909') Anchor Length 58'

IHP - 1901 #

IFP - 10" - B.O.B. 1½ min. 120-294 #
ISI - 30" - Built to 4 in. 1164 #
FFP - 10" - B.O.B. 1 min. 292-423 #
FSI - 30" - Built to 1 in. 1160 #

FHP - 1851 # BHT - 118°F

Recovery: 180' GIP

515' GCO API 35° 370' GMCO 60% Oil

120' GVSWOCM 20% Oil, 5% Water

Structural Comparison

	American Warrior, Inc.	Sid Tomlinson	Texas Company		
	Riedel C #1-31	Riedel B #1		Geo Riedel #5	
	Sec. 31 T13s R19w	Sec. 31 T13s R19w	Sec. 31 T13s R19w		
Formation	2170' FNL & 2304' FEL	N2 SW NE		NE NW SE	
Anhydrite	1559', +720	1564', +707	(+13)	NA	NA
Base	1603', +676	NA	NA	NA	NA
Topeka	3269', -990	NA	NA	3260', -989	(+1)
Heebner	3522', -1243	3519', -1248	(+5)	3521', -1250	(+7)
Toronto	3542', -1263	3544', -1273	(+10)	NA	NA
Lansing	3562', -1283	3565', -1294	(+11)	3560', -1289	(+6)
BKc	3806', -1527	NA	NA	NA	NA
Marmaton	3845', -1566	NA	NA	NA	NA
Arbuckle	3893', -1614	3948', -1677	(+63)	3899', -1628	(+14)

Summary

The location for the Riedel C #1-31 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted both of which recovered commercial amounts of oil from the Lansing-Kansas City and Arbuckle Formations. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Riedel C #1-31 well.

Recommended Perforations

Primary: Arbuckle	(3896' – 3903')	DST #2
Secondary: LKc "J" zone	(3746' – 3752')	DST #1
Before Abandonment: LKc "K" zone	(3770' – 3775')	Not Tested
LKc "C" zone	(3594' – 3600')	Not Tested
Perf and Squeeze:	(2022) 2024)	
Arbuckle	(3922' – 3924')	

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.