

Geological Report

American Warrior, Inc.

Lillie #4-30

2305' FNL & 1610' FEL

Sec 30, T16s, R10w

Ellsworth County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Lillie #4-30
2305' FNL & 1610' FEL
Sec 30, T16s, R10w
Ellsworth County, Kansas
API # 15-053-21340-00-00

Drilling Contractor: Discovery Drilling Rig #2

Geologist: Luke Thompson

Spud Date: October 25, 2015

Completion Date: October 31, 2015

Elevation 1873' G.L.
1881' K.B.

Directions: From the North side of Hollyrood, KS, at the intersection of Hwy 156 and Ave T go 3.8 miles west to County Line Rd on Ave T, go 3 miles North to Rd Q, go 0.5 miles East, go South into.

Casing: 411' 8 5/8" #28 Surface Casing
3600' 5 1/2" #15.5 Production Casing

Samples: 2600' to RTD 10' Wet & Dry

Drilling Time: 2500' to RTD

Electric Logs: Pioneer Energy Services "J. Long"
Stacked Micro

Drillstem Tests: Two-Trilobite Testing "Ray Schwager"

Problems: none encountered

Formation Tops

Lillie #4-30

2305' FNL & 1610' FEL

Sec 30, T16s, R10w

Anhydrite	660' +1221
Base	688' +1193
Howard	2568' -687
Topeka	2606' -725
Lecompton	2741' -860
Plattsmouth	2814' -933
Heebner	2895' -1014
Toronto	2914' -1033
Douglas	2926' -1045
Brown Lime	2997' -1116
Lansing	3017' -1136
Stark	3234' -1353
BKC	3294' -1413
Conglomerate	3320' -1439
Arbuckle	3351' -1469
RTD	3600' -1719
LTD	3602' -1721

Sample Zone Descriptions

Lansing H-J **(3162', -1281 & 3204', -1323)** **Covered in DST #1**

(Lansing H; 3162') Limestone, tan, oolitic, fair oomoldic porosity, slight odor, scattered fair stain, fair saturation, fair show of free oil. Gas unit not working.

(Lansing J; 3204') Limestone, tan, oolitic, good oomoldic porosity, fair odor, scattered poor stain, fair saturation, poor to fair show of free oil. Gas unit not working.

Arbuckle **(3372', -1491)** **Covered in DST #2**

Dolomite, tan, fine crystalline, sucrosic, fair inter-crystalline porosity, strong odor, poor stain, fair saturation, fair slow stream cut, fair show of free oil. Gas unit not working.

Drill Stem Tests

Trilobite Testing
"Ray Schwager"

DST #1

Lansing H-J

Interval (3147' – 3220') Anchor Length 73'

IHP - 1540 #

IFP - 30" – ¼" to ½" blow 27-34 #

ISI - 30" – No Return 447 #

FFP - 30" – ¼" blow 36-41 #

FSIP - 30" – No return 302 #

FHP - 1514 #

BHT - 101 ° F

Recovery: 20' M w/show of oil

DST #2

Arbuckle

Interval (3319' – 3390') Anchor Length 71'

IHP - 1637 #

IFP - 30" – BOB in 3 min 84-347 #

ISI - 45" – No Return 1068 #

FFP - 45" – BOB 5 min 375-602 #

FSIP - 60" – No Return 1050 #

FHP - 1604 #

BHT - 112 ° F

Recovery: 124' SOCW (2% O)

340' SOCMW (2% O)

866' W

Structural Comparison

	American Warrior, Inc. Lillie #4-30 Sec. 30, T16s, R10w 2305' FNL & 1610' FEL		American Warrior, Inc. Lillie #2-30 Sec. 30, T16s, R10w 633' FNL & 2097' FEL		American Warrior, Inc. Lillie #1 Sec. 30, T16s, R10w 2970' FSL & 2310' FEL
Formation					
Topeka	2606' -725	+9	2624' -734	+5	2610' -730
Heebner	2895' -1014	+12	2916' -1026	+5	2902' -1019
Toronto	2914' -1033	+12	2935' -1045	+5	2921' -1038
Douglas	2926' -1045	+11	2946' -1056	+4	2932' -1049
Brown Lm	2997' -1116	+12	3018' -1128	+5	3004' -1121
Lansing	3017' -1136	+12	3038' -1148	+4	3023' -1140
Stark	3234' -1353	+13	3256' -1366		
BKC	3294' -1413	+10	3313' -1423		
Conglom.	3320' -1439	+11	3340' -1450	+5	3327' -1444
Arbuckle	3351' -1469	-5	3354' -1464	0	3352' -1469

Summary

The location for the Lillie #4-30 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 ½" casing to further evaluate the Lillie #4-30 well.

Perforations

Primary:	Arbuckle	3366' – 3369'
Secondary:	Lansing G	3097' – 3100'
	Lansing C	3045' – 3052'

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.