

Geological Report

Mid-Continent Resources, Inc.

Humburg #3X

1700' FSL & 335' FEL

Sec. 25 T19s R21w

Ness County, Kansas



Mid-Continent Resources, Inc.

General Data

Well Data: American Warrior, Inc.
Humburg #3X
1700' FSL & 335' FEL
Sec. 25 T19s R21w
Ness County, Kansas
API # 15-135-25933-0000

Drilling Contractor: Discovery Drilling Rig #3

Geologist: Jason T Alm

Spud Date: January 25, 2017

Completion Date: February 1, 2017

Elevation: 2273' Ground Level
2281' Kelly Bushing

Directions: Bazine KS, Intersection of Hwy 96 and Austin St,
5 ½ mi south, West into location.

Casing: 221' 8 5/8" surface casing
4405' 5 1/2" production casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Ray Schwager"

Problems: None

Remarks: None

Formation Tops

	Mid-Continent Res. Inc.
	Humburg #3X
	Sec. 25 T19s R21w
	1700' FSL & 335' FEL
Formation	
Anhydrite	1487' +794
Base	1520' +761
Heebner	3741' -1460
Lansing	3787' -1506
BKC	4096' -1815
Pawnee	4204' -1923
Fort Scott	4284' -2003
Cherokee	4305' -2024
Mississippian	4375' -2094
RTD	4406' -2125

Sample Zone Descriptions

Mississippian Osage (4386', -2135): **Covered in DST #1**

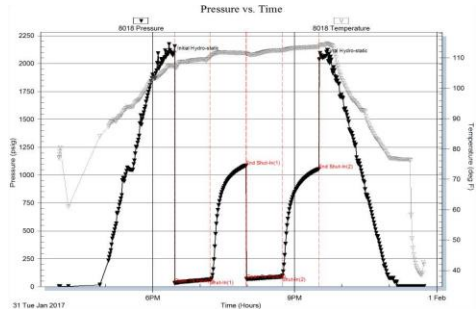
Δ – White to light gray, mostly fresh, slightly triptolic with scattered vuggy porosity, dolomite, tan, sucrosic crystalline with fair inter-crystalline porosity, light to fair oil stain and saturation, fair show of free oil, good odor, fair yellow spotted fluorescents, 35-70 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
"Ray Schwager"

DST #1 Mississippian Osage

Interval (4334' – 4401') Anchor Length 67'

IHP	– 2075 #	
IFP	– 45" – Built to 5 ½ in.	30-64 #
ISI	– 45" – Dead	1086 #
FFP	– 45" – Built to 5 ½ in.	67-91 #
FSI	– 45" – Dead	1053 #
FHP	– 2050 #	
BHT	– 119°F	



Recovery: 145' GIP
 40' GCO
 124' GMO 45% Oil

Structural Comparison

	Mid-Continent Res. Inc. Humburg #3X Sec. 25 T19s R21w 1700' FSL & 335' FEL	Mid-Continent Res. Inc. Humburg #1X Sec. 25 T19s R21w 2086' FSL & 554' FEL		Cities Service Humburg A #1 Sec. 25 T19s R21w C NE SE	
Formation					
Anhydrite	1487' +794	1482' +797	(-3)	1478' +795	(-1)
Base	1520' +761	NA	NA	NA	NA
Heebner	3741' -1460	3734' -1455	(-5)	3731' -1458	(-2)
Lansing	3787' -1506	3780' -1501	(-5)	3780' -1507	(+1)
BKC	4096' -1815	NA	NA	NA	NA
Pawnee	4204' -1923	4198' -1919	(-4)	4197' -1924	(+1)
Fort Scott	4284' -2003	4276' -1997	(-6)	4277' -2004	(+1)
Cherokee	4305' -2024	4298' -2019	(-5)	4296' -2023	(-1)
Mississippian	4375' -2094	4368' -2089	(-5)	4366' -2093	(-1)

Summary

The location for the Humburg #3X 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 inch production casing to further evaluate the Humburg #3X well.

Recommended Perforations

Primary:

Mississippian Osage	(4381' – 4401')	DST #1
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Before Abandonment:

Fort Scott	(4290' – 4296')	Not Tested
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.