

15-083-21808

Geological Report

DK Operating, Inc.
Uehling Trust #1-1
1800' FNL & 700' FEL
Sec. 1 T21s R23w
Hodgeman County, Kansas



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DK Operating, Inc.

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General Data

Well Data: DK Operating, Inc.
Uehling Trust #1-1
1800' FNL & 700' FEL
Sec. 1 T21s R23w
Hodgeman County, Kansas
API # 15-083-21808-0000

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

Geologist: Jason T Alm

Spud Date: July 5, 2012

Completion Date: July 11, 2012

Elevation: 2244' Ground Level
2252' Kelly Bushing

Directions: Jetmore KS, 9 mi. North to X Rd. 6 mi. West on X
rd. to NW 224 Rd. North 1 mi. to County Line,
West 1 ¼ mi. South into Location.

Casing: 220' 8 5/8" surface casing
4448' 5 1/2" production casing

Samples: 10' wet and dry, 4000' to RTD

Drilling Time: 3650' to RTD

Electric Logs: None

Drillstem Tests: Two, Trilobite Testing, Inc. "Brandon Turley"

Problems: None

Remarks: None

Formation Tops

Formation	DK Operating, Inc. Uehling Trust #1-1 Sec. 1 T21s R23w 1800' FNL & 700' FEL
Anhydrite	1469', +783
Base	1503', +749
Heebner	3760', -1508
Lansing	3810', -1558
Stark	4070', -1818
BKc	4169', -1917
Marmaton	4177', -1925
Pawnee	4261', -2009
Fort Scott	4330', -2078
Cherokee	4352', -2100
Mississippian	4419', -2168
Osage	4436', -2184
RTD	4448', -2196

Sample Zone Descriptions

- Fort Scott** (4330', -2078): **Covered in DST #1**
 Ls – Fine crystalline with poor to fair inter-crystalline and slight scattered oolitic porosity, light spotted oil stain in porosity, slight show of free oil, light odor, fair yellow fluorescents, mostly dense, slightly fossiliferous.
- Miss. Warsaw** (4419', -2168): **Not Tested**
 Dolo – Fine to sub-crystalline with scattered poor vuggy porosity, light to fair dark tarry oil stain in porosity, no show of free oil, no odor, dull cut fluorescents.
- Miss. Osage** (4436', -2184): **Covered in DST #2**
 Δ – Dolo – Fine to medium sucrosic crystalline with fair to good inter-crystalline and vuggy porosity, very heavy triptolitic chert, weathered with good vuggy porosity, light to heavy oil stain and saturation in porosity, good show of free oil, bright yellow fluorescents.

Summary

The location for the Uehling Trust #1-1 well 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 1/2 inch production casing to further evaluate the Uehling Trust #1-1 well.

Recommended Perforations

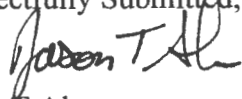
Primary:

Mississippian Osage	(4436' – 4345')	DST #2
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Before Abandonment:

Mississippian Warsaw	(4424' – 4430')	Not Tested
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Respectfully Submitted,



Jason T Alm
Hard Rock Consulting, Inc.