

1218504

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Geological Report

DK Operating, Inc.
Whitley #3-13
1092' FSL & 523' FEL
Sec. 13 T20s R23w
Ness County, Kansas



DK Operating, Inc.

General Data

Well Data: DK Operating, Inc.
Whitley #3-13
1092' FSL & 523' FEL
Sec. 13 T20s R23w
Ness County, Kansas
API # 15-135-25781-0000

Drilling Contractor: Pickrell Drilling Rig #1

Geologist: Jason T Alm

Spud Date: May 29, 2014

Completion Date: June 5, 2014

Elevation: 2210' Ground Level
2220' Kelly Bushing

Directions: Bazine KS, South 6 mi. to 70 Rd. West 6 mi. to Y
Rd. South 2 ½ mi. West into location.

Casing: 260' 8 5/8" surface casing

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

Drilling Time: 3500' to RTD

Electric Logs: None

Drillstem Tests: Three, Trilobite Testing, Inc. "Jim Svaty"

Problems: None

Remarks: None

Formation Tops

	DK Operating, Inc. Whitley #3-13 Sec. 13 T20s R23w 1092' FSL & 523' FEL
Formation	
Anhydrite	1417', +803
Base	1453', +767
Heebner	3661', -1441
Lansing	3710', -1490
BKc	4028', -1808
Pawnee	4154', -1934
Fort Scott	4222', -2002
Cherokee	4246', -2026
Mississippian	4314', -2094
Osage	4326', -2106
RTD	4351', -2131

Sample Zone Descriptions

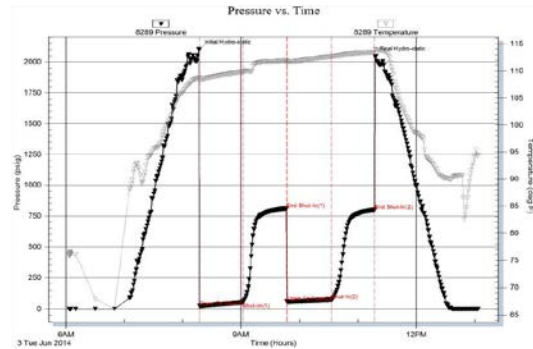
- Fort Scott (4222', -2002):** **Covered in DST #1**
 Ls – Fine to sub-crystalline with poor inter-crystalline and slight vuggy porosity, very light spotted oil stain in porosity, slight show of free oil when broken, no odor, fair yellow fluorescents.
- Mississippian Osage (4326', -2106):** **Covered in DST #2,3**
 Δ – Dolo – Fine sucrosic crystalline with poor scattered inter-crystalline and vuggy porosity, chert, triptolic, weathered with good vuggy porosity, light to fair oil stain in porosity, fair show of free oil, good odor, light spotted yellow fluorescents.

Drill Stem Tests
Trilobite Testing, Inc.
"Jim Svaty"

DST #1 Fort Scott

Interval (4188' – 4250') Anchor Length 62'

IHP – 2097 #
IFP – 45" – Built to 3 in. 22-54 #
ISI – 45" – Dead 809 #
FFP – 45" – Built to 2 in. 60-76 #
FSI – 45" – Dead 798 #
FHP – 2042 #
BHT – 113°F

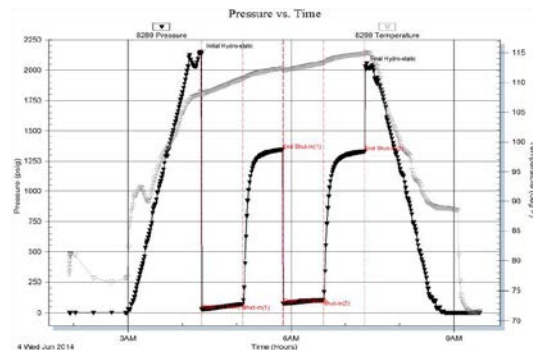


Recovery: 118' OCM 5% Oil

DST #2 Mississippian Osage

Interval (4265' – 4345') Anchor Length 80'

IHP – 2134 #
IFP – 45" – Built to 4 3/4 in. 26-70 #
ISI – 45" – Dead 1343 #
FFP – 45" – Built to 3 in. 74-105 #
FSI – 45" – Dead 1329 #
FHP – 2028 #
BHT – 115°F

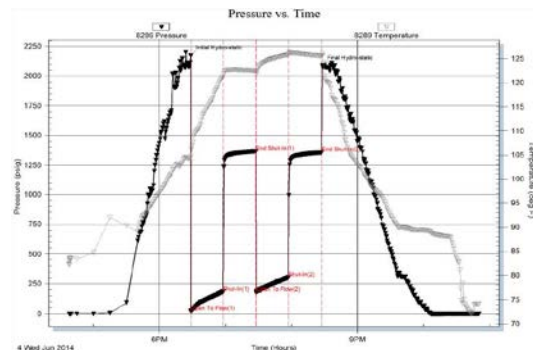


Recovery: 1' Clean Oil
6' OCM 30% Oil
174' WOCM 20% Oil, 10% Water

DST #3 Mississippian Osage

Interval (4345' – 4351') Anchor Length 6'

IHP – 2127 #
IFP – 30" – B.O.B. 12 min. 22-182 #
ISI – 30" – W.S.B. 1367 #
FFP – 30" – B.O.B. 12 min. 177-300 #
FSI – 30" – Dead 1357 #
FHP – 2086 #
BHT – 125°F



Recovery: 15' Clean Oil
68' OSWCM 1% Oil, 29% Water
552' MCW 95% Water

Structural Comparison

Formation	DK Operating, Inc. Whitley #3-13 Sec. 13 T20s R23w 1092' FSL & 523' FEL	Mull Drilling Whitley #1 Sec. 13 T20s R23w C NE SE		Pickrell Drilling Stairrett A #1 Sec. 18 T20s R22w C NW SW	
Anhydrite	1417', +803	1416', +806	(-3)	1418', +805	(-2)
Base	1453', +767	4151', +771	(-5)	NA	NA
Heebner	3661', -1441	3658', -1436	(-5)	3665', -1442	(+1)
Lansing	3710', -1490	3706', -1484	(-6)	3711', -1488	(-2)
BKc	4028', -1808	NA	NA	NA	NA
Pawnee	4154', -1934	NA	NA	4154', -1931	(-3)
Fort Scott	4222', -2002	4223', -2001	(-1)	4223', -2000	(-2)
Cherokee	4246', -2026	NA	NA	NA	NA
Mississippian	4314', -2094	4309', -2087	(-7)	4313', -2090	(-4)
Osage	4326', -2106	4327', -2105	(-1)	4325', -2102	(-4)

Summary

The location for the Whitley #3-13 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three Drill Stem Tests were conducted all of which were negative. After all gathered data had been examined the decision was made to plug and abandon the Whitley #3-13 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.

ALLIED OIL & GAS SERVICES, LLC 062946

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Grandland

DATE <u>6-5-14</u>	SEC. <u>13</u>	TWP. <u>20</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION <u>1 AM</u>	JOB START <u>10:00 am</u>	JOB FINISH <u>1:30 pm</u>
LEASE <u>Whitley</u>	WELL #. <u>3-13</u>	LOCATION <u>Ness city str up rd - SE-1/2S</u>			COUNTY <u>NESS</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one) <u>NEW</u>			Liners				

CONTRACTOR Pickwell 1
 TYPE OF JOB Rotary plug
 HOLE SIZE 17 1/2 T.D.
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 1470
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. All
 PERFS. _____
 DISPLACEMENT Fresh water

OWNER _____
 CEMENT
 AMOUNT ORDERED 250 SKS 60/40 4 1/2 gel
14 F10
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
250 SKS 60/40 + 4% @ 18.92 4,730.00
110591 63 @ 2.97 187.11
 _____ @ _____
Materials total @ 4,917.11
Disc @ 25% 1,229.28
Service @ -
 HANDLING 268.53 @ 2.48 665.95
 MILEAGE 11.21 x 12 X 2.75 369.93 = 380.00

EQUIPMENT
 PUMP TRUCK CEMENTER Josh Koval
 # 395 HELPER Josh Ellis
 BULK TRUCK
 # 571-112 DRIVER Kevin Wilcox
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

On location - dig up - had safety meeting
Run like drill pipe - fill hole w/ dry wood
#1 - 1470 FT - 50 SKS
#2 - 600 - 80 R+ - 30 SKS
#3 - 750 - 50 MH - 20
#4 - 00 - 20
Plug down 1115 pm
Plug down

DEPTH OF JOB _____
 PUMP TRUCK CHARGE 2249.84
 EXTRA FOOTAGE @ _____
 MILEAGE Hum 12 @ 7.70 92.40
 MANIFOLD @ 168.00 168.00
20 um 12 @ 4.40 52.80
 _____ @ _____

CHARGE TO: DK operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 3,608.99
25% 902.25

PLUG & FLOAT EQUIPMENT

 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

0% TOTAL 0

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Mike Kern
 SIGNATURE X Mike Kern

SALES TAX (If Any) _____
 TOTAL CHARGES 8,526.10
 DISCOUNT 2,131.53 (25/250)
 IF PAID IN 30 DAYS
\$ 6,394.57

Thank you!