



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1218453
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1218453

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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 #1-13
1537' FSL & 2305' FEL
Sec. 13 T20s R23w
Ness County, Kansas



DK Operating, Inc.

General Data

Well Data: DK Operating, Inc.
Whitley #1-13
1537' FSL & 2305' FEL
Sec. 13 T20s R23w
Ness County, Kansas
API # 15-135-25780-0000

Drilling Contractor: Pickrell Drilling Rig #1

Geologist: Jason T Alm

Spud Date: June 10, 2014

Completion Date: June 18, 2014

Elevation: 2202' Ground Level
2209' Kelly Bushing

Directions: Bazine KS, South 6 mi. to 70 Rd. West 6 mi. to Y Rd. South 3 ½ mi. West into location.

Casing: 210' 8 5/8" surface casing
4309' 5 1/2" production casing

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

Drilling Time: 3500' to RTD

Electric Logs: None

Drillstem Tests: Two, Trilobite Testing, Inc. "Brett Dickinson"

Problems: Cedar Hills flowed about 200 bbls of water while the rig was making a bit trip @ 3450'.

Remarks: None

Formation Tops

Formation	DK Operating, Inc. Whitley #1-13 Sec. 13 T20s R23w 1537' FSL & 2305' FEL
Anhydrite	1400', +809
Base	1434', +775
Heebner	3636', -1427
Lansing	3684', -1475
BKc	4011', -1802
Pawnee	4128', -1919
Fort Scott	4198', -1989
Cherokee	4223', -2014
Mississippian	4287', -2078
Osage	4297', -2088
RTD	4310', -2101

Sample Zone Descriptions

Fort Scott (4198', -1989): **Covered in DST #1**
 Ls – Fine crystalline with scattered poor inter-crystalline porosity, light to fair oil stain and saturation, slight show of free oil when broken, light odor, good yellow fluorescents.

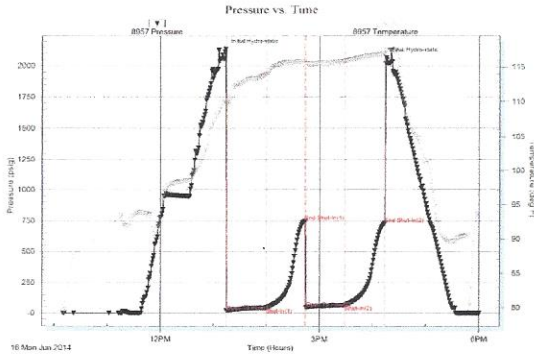
Mississippian Osage (4297', -2088): **Covered in DST #2**
 Δ – Dolo – Fine sucrosic crystalline with poor inter-crystalline porosity, very heavy chert, mostly fresh with scattered good vuggy porosity, light to fair oil stain in porosity, fair show of free oil, good odor, bright yellow fluorescents.

Drill Stem Tests
 Trilobite Testing, Inc.
 "Brett Dickinson"

DST #1 Fort Scott

Interval (4172' – 4230') Anchor Length 58'

IHP – 2136 #
 IFP – 45" – Built to 6 ½ in. 19-43 #
 ISI – 45" – Dead 751 #
 FFP – 45" – Built to 6 ½ in. 44-64 #
 FSI – 45" – Dead 732 #
 FHP – 2067 #
 BHT – 117°F

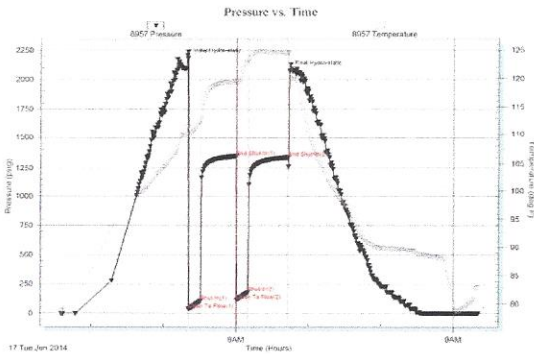


Recovery: 180' GIP
 105' GVSOWCM 5% Oil, 10% Water

DST #2 Mississippian Osage

Interval (4300' – 4308') Anchor Length 8'

IHP – 2181 #
 IFP – 10" – B.O.B. 3 ½ min. 38-106 #
 ISI – 30" – Built to 2 ½ in. 1348 #
 FFP – 10" – B.O.B. 4 ½ min. 113-181 #
 FSI – 30" – Built to 2 in. 1339 #
 FHP – 2075 #
 BHT – 124°F



Recovery: 195' GIP
 385' GCO
 60' GVSOWCM 5% Oil, 25% Water

Structural Comparison

	DK Operating, Inc. Whitley #1-13 Sec. 13 T20s R23w 1537' FSL & 2305' FEL	Mull Drilling Whitley #2 Sec. 13 T20s R23w C NW SE		Shell Oil Co. Maranville #1-13 Sec. 13 T20s R23w C NE SW	
Formation					
Anhydrite	1400', +809	1406', +810	(-1)	1408', +803	(+6)
Base	1434', +775	1443', +773	(+2)	NA	NA
Heebner	3636', -1427	3646', -1430	(+3)	3644', -1433	(+6)
Lansing	3684', -1475	3690', -1474	(-1)	3693', -1482	(+7)
BKc	4011', -1802	NA	NA	NA	NA
Pawnee	4128', -1919	NA	NA	4140', -1929	(+10)
Fort Scott	4198', -1989	NA	NA	4210', -1999	(+10)
Cherokee	4223', -2014	NA	NA	NA	NA
Mississippian	4287', -2078	4294', -2078	FL	4302', -2091	(+13)
Osage	4297', -2088	4311', -2095	(+7)	4310', -2099	(+11)

Summary

The location for the Whitley #1-13 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 ½ inch production casing to further evaluate the Whitley #1-13 well.

Recommended Perforations

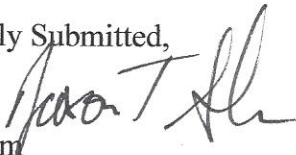
Primary:

Mississippian Osage (4297' – 4307') **DST #2**

Before Abandonment:

Fort Scott (4215' – 4220') **DST #1**

Respectfully Submitted,



Jason T Alm
Hard Rock Consulting, Inc.

JOB LOG

SWIFT Services, Inc.

DATE 17 Jun 14 PAGE NO. 1

CUSTOMER DK Operating WELL NO. 1-13 LEASE Whitley JOB TYPE cement long string TICKET NO. 26346

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 cement w/ 1/4" flocculants 5 1/2" x 15.5" casing TD = 4310' Centralizer 1, 2, 3, 4 Bark 4, Port collar
	1800							on loc TRK 114
	1858							start 5 1/2" x 15.5" casing in well
	2044							Drop ball - circulate
	2145	4	12			200		Pump 500gal mud flush
		4	20			200		Pump 20 bbl KCL flush
			7					Plug RH 30 sk
	2156		35			200		mix EA-2 cement 1455 lb @ 15.3 ppg
								Drop latch down plug wash out pump & line
	2218	6				200		Displace plug
		6	95			600		
	2245	6	103			1600		Land plug
								Release pressure to truck - dried up
	2250							wash truck
								Rack up
	2320							job complete
								Turn Blam, Flint & record

ALLIED OIL & GAS SERVICES, LLC 062948

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Grubard

DATE <u>6-12-14</u>	SEC <u>3</u>	TWP <u>20</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION <u>5 AM</u>	JOB START <u>8</u>	JOB FINISH <u>8:30 PM</u>
LEASE <u>Whitley</u>	WELL # <u>1-13</u>	LOCATION <u>Misscity St 40 rd SE</u>		COUNTY <u>Mart</u>	STATE <u>KJ</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>1/2 S Winto</u>			

CONTRACTOR Pickrell #1

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D.

CASING SIZE 4 1/2 DEPTH 200.91

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 FT

PERFS.

DISPLACEMENT 12.09 bbl fresh water

EQUIPMENT

OWNER

CEMENT

AMOUNT ORDERED 160 slcs Class A

31.11 2/10/14

COMMON	<u>160</u>	@ <u>17.90</u>	<u>2,864.00</u>
POZMIX		@	
GEL	<u>300</u>	@ <u>1.05</u>	<u>315.00</u>
CHLORIDE	<u>451</u>	@ <u>1.10</u>	<u>496.10</u>
ASC		@	
		@	
		@	
<u>Materials Total</u>			<u>3,675.10</u>
		<u>Disc @ 25%</u>	<u>918.78</u>
		@	
		@	
		<u>Service</u>	
		@	
HANDLING	<u>173 Y F</u>	@ <u>2.48</u>	<u>429.04</u>
MILEAGE	<u>7.89 X 12 X</u>	<u>2.75 = 2137 =</u>	<u>380.00</u>

PUMP TRUCK CEMENTER Josh Lopez

399 HELPER Josh Ellis

BULK TRUCK

619 239 DRIVER Ken - Michay

BULK TRUCK

DRIVER

REMARKS:

On location - rig up - had safety meeting
Run 2 1/2 casing - Break circulation with rig and
Pump 5 bbl fresh water
mix 160 slcs Class A 31.11 2/10/14 gel
Displace 12.09 bbl fresh water
Shut in
Cement did circulate
Rig down

DEPTH OF JOB 208

PUMP TRUCK CHARGE 1512.35

EXTRA FOOTAGE @

MILEAGE HVM 12 @ 7.70 92.40

MANIFOLD @

LVM 12 @ 4.40 52.80

@

CHARGE TO: D/K operating

STREET

CITY STATE ZIP

TOTAL 2,466.49
Disc @ 25%
616.62

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.

SALES TAX (If Any)

TOTAL CHARGES 6,141.59

DISCOUNT 1,535.40 IF PAID IN 30 DAYS

PRINTED NAME Mike Kern

SIGNATURE Mike Kern

Thank you's

4,606.19