



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1187997  
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: \_\_\_\_\_

1187997

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## Formation Tops

<b>Formation</b>	<b>DK Operating, Inc.</b>
	<b>Lupfer #1-10</b>
	<b>Sec. 10 T23s R22w</b>
	<b>650' FSL &amp; 1580' FWL</b>
Anhydrite	<b>1326', +887</b>
Base	<b>1358', +855</b>
Heebner	<b>3773', -1560</b>
Lansing	<b>3847', -1634</b>
BKc	<b>4201', -1988</b>
Marmaton	<b>4219', -2006</b>
Pawnee	<b>4302', -2089</b>
Fort Scott	<b>4369', -2156</b>
Cherokee	<b>4393', -2180</b>
Mississippian	<b>4444', -2231</b>
RTD	<b>4466', -2253</b>

## Sample Zone Descriptions

**Miss. Osage**

**(4444', -2231): Covered in DST #1,2**

Dolo - Δ - Fine sucrosic crystalline with poor scattered vuggy porosity, fresh chert with scattered fair to good vuggy porosity, light spotted oil stain, no show of free oil, dull yellow fluorscents.

**Drill Stem Tests**  
Trilobite Testing Inc.  
"Brannan Lonsdale"

**DST #1**

**Mississippian Osage**

Interval (4412' - 4458') Anchor Length 46'

IHP	- 2244 #	
IFP	- 30" - Built to 4 in.	46-78 #
ISI	- 30" - Dead	1318 #
FFP	- 30" - Built to 1 in.	74-88 #
FSI	- 30" - Dead	1283 #
FHP	- 2206 #	
BHT	- 109°F	

Recovery: 5' Clean Oil  
115' OCMW 20% Oil, 60' Water

**DST #2**

**Mississippian Osage**

Interval (4412' - 4463') Anchor Length 51'

IHP	- 2240 #	
IFP	- 30" - Built to 4 in.	44-96 #
ISI	- 30" - V.W.S.B.	1243 #
FFP	- 30" - Built to 2 in.	99-134 #
FSI	- 30" - Dead	1188 #
FHP	- 2179 #	
BHT	- 106°F	

Recovery: 233' OCM 30% Oil

DK OPERATING, INC  
Lupfer #1-10  
650' FSL & 1580' FWL Sec 10-23S-22W  
Hodgeman Co., Kansas

2203' GL  
2213' KB

Report: Squeeze perf, drill out & deepen

- 04-14-14 MIRU Cheyenne Well; Svc DD. TOH w/ rods, pump & tbg. TIH w/ pkr & tbg. TIH w/ pkr & tbg, let pkr swing @ 4450'. SDFN
- 04-15-14 RU Swift Svc, load csg but had 1 1/2 bpm @ 400#. Drop standing valve in tbg, load tbg but same results, pump 1 1/2 bpm @ 400#. TOH w/ tbg & pkr, found sub above pkr leaking. Replace tbg sub, TIH w/ pkr & tbg, set pkr @ 4360', RU Swift Svc, load csg & pressure to 500#, held, took inj rate on tbg, 3 bpm @ 600#. Squeeze of Miss perms 4453-63' w/ 75 sx common, staged up to 1200# w/ 53 sx in formation. Held pressure, washed up pkr & tbg, pulled pkr up to 4240', repressure up to 500#, SIT, SDFN
- 04-16-14 TOH w/ tbg & pkr, TIH w/ 4-7/8" bit & tbg. Tagged cement @ 4355', drilled cement to auto fill shoe @ 4464.5'. Drilled .5' of auto fill shoe, then 1' of open hole then 2' of new open hole to 4468'. Circulate hole clean, pull bit up to 4440', SDFN
- 04-17-14 FL @ surface, start swabbing steady. Swabbed fluid down to 4240', let set 30 min, no fluid entry. Let set 30 min, no fluid entry. Drilled 2.5' to 4470.5' w/ drilling break @ 1.5'(4469.5'), circulate hole clean, pulled bit up to 4440', start swabbing steady to test. Swabbed fluid down to 4200', SDFN
- 04-18-14 FL @ 4000', 270' FIH w/ good show of oil(~1%,covered top bucket). TOH w/ tbg & bit. RU Perf-Tech, perf Miss 4464.5-69.5'(5') w/ 3-1/8" Expendable gun 4 spf then reperf the same. RIH w/ swab, FL @ 3900', 570' FIH w/ good show oil. Swabbed fluid down to 4450', let set 30 min w/ no fluid entry. TIH w/ 1 jt tailpipe, pkr & tbg, RU Swift Svc, spot acid & acidize Miss w/ 500 gal 20% NE/Fe/3% MS. Max press - 1400#, min - 500#, avg treat - 800#, max rate - 1.1 bpm, min - staging, avg treat - .75 bpm, ISIP - 700# & 3 1/2 min - vac. Total load - 40 bbl, let set 15 min, FL @ 100'. Swabbed steady recovering 28.39 bbl, FL @ 3500' w/ pull from SN & show of oil. Let set 15 min, FL @ 3400', 1070' FIH, recovered 6 bbl & 34.39 bbl of 40 bbl load w/ 6% oil. SDFN & Weekend

Lupfer #1-10

04-21-14 FL @ 1200', 3270' FIH w/ 40' oil(1.2%). Swab test as follows:

Time	bbbl	cum	%	comments
Swb dn	26.70	61.09	6	FL 3900', swb stdy
2 <sup>nd</sup> hr	12.50	73.59	2	FL 3800', 4-pulls

TOH w/ tbg & pkr. TIH w/ tbg as follows:

			Set @
2-7/8" 8rd EUE TP MA	1jt	15.00'	4459.86'
2-7/8" 8rd SN	1jt	1.10'	4444.86'
2-7/8" 8rd EUE tbg	137jts	4430.76'	4443.76'
	Below Zero	13.00'	

Landed tbg 9' off bottom. TIH w/ pump & rods as follows:

- 2 1/2"x 2"x 12' RWT
- 7/8"x 2' pony rod
- 8 - 7/8"x 25' sucker rods
- 99 - 3/4"x 25' sucker rods
- 77 - 7/8"x 25' sucker rods
- 7/8"x 6', 8' pony rods
- 1 1/4"x 22' PR w/ 8' PRL

Longstroke well w/ good pump action. RDMODD