



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1223399  
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: \_\_\_\_\_

1223399

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:  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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	MATER C-4 ATU-267
Doc ID	1223399

Tops

Name	Top	Datum
KRIDER	2316	KB
WINFIELD	2355	KB
TOWANDA	2417	KB
FT_RILEY	2469	KB
FUNSTON_LM	2592	KB
CROUSE	2642	KB
MORRILL	2741	KB
GRENOLA	2787	KB



# JOB SUMMARY

<b>PROJECT NUMBER</b> TN # 992		<b>TICKET DATE</b> 7/19/2014	
<b>COUNTY</b> Stanton		<b>COMPANY</b> Linn Energy	
<b>LEASE NAME</b> Mater		<b>WELL NO.</b> C4 ATU 267	
<b>JOB TYPE</b> Surface		<b>CUS / DEALER REP</b> Orlando	
<b>EMP NAME</b> BEAU CLEM		<b>EMPLOYEE NAME</b> BEAU CLEM	

<b>BEAU CLEM</b>					
<b>SHAWN COTTON</b>					
<b>DANIEL MUNIZ</b>					

**Form Name** Chase-Council Grove **Type:** \_\_\_\_\_

**Packer Type** \_\_\_\_\_ **Set At** \_\_\_\_\_

**Bottom Hole Temp.** \_\_\_\_\_ **Pressure** \_\_\_\_\_

**Retainer Depth** \_\_\_\_\_ **Total Depth** \_\_\_\_\_

	Called Out	On Location	Job Started	Job Completed
Date	7/19/14	07/19/14	07/19/14	07/19/14
Time	11:37am	6:00PM	7:32PM	8:37PM

**Tools and Accessories**

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Valve	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

**Well Data**

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	Now	24	8.625	J-55	0	730	2000
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							
Perforations							Shots/Ft.
Perforations							
Perforations							

**Materials**

Mud Type	Disp. Fluid	H2O	BBL	Density	0	Lb/Gal
Spacer type	H2O	BBL	10	Density	8.33	Lb/Gal
Spacer type		BBL				
Acid Type		Gal.			%	
Acid Type		Gal.			%	
Surfactant		Gal.			in	
NE Agent		Gal.			in	
Fluid Loss		Gal/Lb			in	
Gelling Agent		Gal/Lb			in	
Fric. Red.		Gal/Lb			in	
MISC.		Gal/Lb			in	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
07/19/14	3.5	07/19/14	1.0	Surface
<b>Total</b>	<b>3.5</b>	<b>Total</b>	<b>1.0</b>	

**Perpac Balls** \_\_\_\_\_ **Qty.** \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

**Pressures**

**MAX** 836 **AVG.** 60

**Average Rates in BPM**

**MAX** 3 **AVG** 3

**Feet** 44 **Reason** \_\_\_\_\_ **Shoe Joint** \_\_\_\_\_

**Cement Data**

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	455	Premium Class C	2% Calcium Chloride and 25 #/Bbl Cellulose	6.34	1.35	14.8
2						
3						
4						

**Summary**

<b>Preflush Breakdown</b>	Type: _____	<b>Preflush:</b> BBI	10.00	Type: H2O
	<b>MAXIMUM</b>	<b>Load &amp; Bkdn:</b> Gal - BBI		<b>Pad:Bbl -Gal</b>
	<b>Lost Returns:</b> 0	<b>Excess /Return</b> BBI	40	<b>Calc. Disp Bbl</b>
	<b>Actual TOC</b>	<b>Calc. TOC:</b>	<b>SURFACE</b>	<b>Actual Disp.</b> 43.00
<b>Average</b>	<b>Frac. Gradient</b>	<b>Treatment:</b> Gal - BBI		<b>Disp Bbl</b>
(SIP) 5 Min.	10 Min	<b>Cement Slurry</b> BBI	109.0	
	15 Min	<b>Total Volume</b> BBI	162.00	

**CUSTOMER REPRESENTATIVE** Willie Higgin **SIGNATURE** \_\_\_\_\_

**Thank You For Using**  
**O - TEX Pumping**

<b>JOB SUMMARY</b>		PROJECT NUMBER <b>TN # 996</b>	TRIAL DATE <b>7/21/2014</b>
COUNTY <b>Stanton</b>	COMPANY <b>Linn Energy</b>	CUSTOMER REP <b>Weldon Higgins</b>	
LEASE NAME <b>Mater</b>	Well No. <b>C4 ATU 267</b>	JOB TYPE <b>Production</b>	
EMP NAME <b>Steve Crocker</b>		EMPLOYEE NAME <b>Steve Crocker</b>	

Steve Crocker					
Tony Lewis					
Hendrick Newsome					
Larry Pickard					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth \_\_\_\_\_

Date	Called Out	On Location	Job Started	Job Completed
		07/21/14	07/21/14	07/21/14
Time		300	1100	1300

**Tools and Accessories**

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Valve	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

**Well Data**

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	15.5	5.5	J-40	0	3044	2500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							
Perforations							Shots/Ft.
Perforations							
Perforations							

**Materials**

Mud Type	Qty	Density	Lb/Gal
Disp. Fluid	0	8.33	
Spacer type	diurn Silic BBL	30	
Spacer type	BBL		
Acid Type	Gal	%	
Acid Type	Gal	%	
Surfactant	Gal	In	
NE Agent	Gal	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red	Gal/Lb	In	
MISC.	Gal/Lb	In	

Perfpac Balls \_\_\_\_\_ Qty \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
07/21/14	10.0	07/21/14	2.0	Production
				Pump Spacer 30bbls
				Pump Lead CMT at 11.5
				170bbls
				Pump H2O Displacement
				72bbls
				CMT to Surface: 50bbls
				125sks
				62bbls into Displacement
				pressure dropped and
				we lost returns
<b>Total</b>	<b>10.0</b>	<b>Total</b>	<b>2.0</b>	

**Pressures**

<b>MAX</b>	<b>AVG</b>
<b>MAX</b> 3.5	<b>AVG</b> 3
<b>Feet</b> 44	<b>Reason</b> Shoe Joint

**Cement Data**

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	425	O-Tex LowDense	2% Gyp, 2% Calcium Chloride, 2% C-45, 0.4% C-15, 0.4% C-11P, 0.2% C-51, 0.25 #/sk Cellulose	13.28	2.25	11.5
2	0	0	0	0	0	0
3						
4						

**Summary**

Preflush Breakdown	Type: <b>MAXIMUM</b>	Preflush: BBI	<b>30.00</b>	Type: <b>Sodium Silicate</b>
Average	Actual TOC	Load & Bkdn: Gal - BBI		Pad Bbl - Gal
150" 5 Min	Frac. Gradient	Excess /Return BBI	<b>50</b>	Calc Disp Bbl
	10 Min	Calc. TOC	<b>0</b>	Actual Disp
	15 Min	Treatment: Gal - BBI		Disp Bbl
		Cement Slurry BBI	<b>170.0</b>	
		Total Volume BBI	<b>272.00</b>	

CUSTOMER REPRESENTATIVE Weldon Higgins SIGNATURE

**Thank You For Using**  
**O - TEX Pumping**