

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date _____

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	TYRRELL 3-17
Doc ID	1348460

All Electric Logs Run

Annular Hole Volume
Array Compensated True Resistivity Log
Microlog
Dual Spaced Neutron Spectral Density
Quad Combo
Repeat Section
Borehole Comp Sonic Array Log

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	TYRRELL 3-17
Doc ID	1348460

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3998-4003- Lansing	Frac w/500 gal 15% FeMCA & 22 bbl 2% KCL	3998-4003
4	4294-4300- Marmaton A	Frac w/10,000# 20/40 Sand & 397,726 mcf Nitrogen	4294-4300



Cement Job Summary

Job Number: Lib1612102115		Job Purpose: 01 Surface	
Customer: Linn Energy	Date: 12/10/2016		
Well Name: Tyrrell	Number: 3-17	API/UWI:	
County: Finney	City:	State: Kansas	
Cust. Rep:	Phone:	Rig Phone:	
Legal Desc:	Rig Name: Quest Drilling#211		
Distance: 50 miles (one way)	Supervisor: Hector Esqueda		

Employees:	Emp. ID:	Employees:	Emp. ID:
Hector Esqueda		Carlos Ibarra	
Cristian Camacho		Alejandro Ayala	#N/A

Equipment:	
993-541	774-1066
870-744	1039-2

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	12 1/4	100%	1540	1,800	TAIL CEMENT	
OPEN HOLE	12 1/4	100%	0	1,540	LEAD CEMENT	
OPEN HOLE	12 1/4			0		
OPEN HOLE	12 1/4					
Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
TOTAL CASING	8 5/8	24	8.097	J-55	0	1,800
SHOE	8 5/8	24	8.097	J-55	1,758	1,800

Materials - Pumping Schedule						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	FRESH WATER	10	8.30	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	460	11.81	2.77	16.50	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	1297.2	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	230.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Tail 1	CLASS A COMMON	200	15.62	1.19	5.20	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	1.88	% BWOC	376.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	50.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 1	0	111.9556981	8.33	n/a	n/a	

Job Number: Lib1612102115		Job Purpose: 01 Surface	
Customer: Linn Energy	Date: 12/10/2016		
Well Name: Tyrrell	Number: 3-17	API/UWI:	
County: Finney	City:	State: Kansas	
Cust. Rep:	Phone:	Rig Phone: 0	
Distance: 50 miles (one way)	Supervisor: Hector Esqueda		

Cement Job Summary

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	AM/PM	CASING	ANNULUS	VOLUME	
12/9/2016					
22:00					arrived to location
22:15					rig up iron
12/10/2016					casing got stuck in the well. So they took casing out and went back in with drill pipe and circulated and triped back out. Waiting for crew to finish casing
19:00					rig up head and manifold and the rest of the iron
19:30					prime up the pump
19:52	3000				pressure test line to 3000Psi
19:55	80		10	5	start the 10bbbs spacer
19:56	50		226	5	start the lead cement @ 11.81#
20:05	180			6.5	increased the rate to 6.5Bpm
20:36	120		42	5	start the tail cement @ 15.62#
20:46					shut down (drop the plug) and start washing the tub
20:51	20		110	4.5	start the 110bbl displacment with fresh H2o
20:56	20		20	5	20bbbs gone
10:58	100		30	6	30bbbs gone
20:59	130		40	5.8	40bbbs gone
21:01	180		50	5.7	50bbbs gone
21:03	240		60	5.2	60bbbs gone
21:05	300		70	4.6	70bbbs gone
21:08	410		80	5.5	80bbbs gone
21:10	480		90	4.6	90bbbs gone
21:12	549		100	4.1	100bbbs gone
21:15	1100		110		landed plug @ 1100Psi with 110BBS
					waited aa few minuted to make sure plug landed right
					released pressure to make sure that the floats are holding and they are got 1/2 bbl back to the tank
					100bbbs of cement circulated to surface
					rig down released from location
					at 22:00



Cement Job Summary

Job Number:		Job Purpose		02 Production/Long String	
Customer:		Linn Energy		Date:	
				12/16/2016	
Well Name:		Tyrell		Number:	
				3-17	
County:		Finney		API/UWI:	
City:				State:	
State:		Kansas		Rig Name:	
Cust. Rep:		Phone:		Quest Drilling#211	
Legal Desc:		Rig Phone:		Supervisor	
Distance		50 miles (one way)		Aldo Espinosa	

Employees:	Emp. ID:	Employees:	Emp. ID:
ALDO ESPINOZA			
CRISTIAN CAMACHO			
GERARDO BURCIAGA			
Equipment:			
984-			
1071-545			
1080-842			

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	7 7/8	10%	3700	4,900	TAIL CEMENT	
OPEN HOLE	7 7/8	30%	1800	3,700	LEAD CEMENT	
OPEN HOLE	7 7/8			1,800		
OPEN HOLE	7 7/8					
Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
PREVIOUS CASING	8 5/8	24	8.097	J-55	0	1,800
TOTAL CASING	5 1/2	15.5	4.892	J-55	0	4,874
SHOE	5 1/2	15.5	4.892	J-55	4,827	4,874

Materials - Pumping Schedule						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	HIVIS SWEEP	12	8.50	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	230	11.74	2.80	16.62	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	115.0	lbm	
CLC-KOL	KOL-SEAL	3	lb/sk	690.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	120	13.60	1.92	9.56	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.47	% BWOC	56.4	lbm	
CLC-KOL	KOL-SEAL	5	lb/sk	600.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	30.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 1	2% KCL Water	111.9	8.33	n/a	n/a	

Job Number:		Job Purpose		02 Production/Long String	
Customer:		Linn Energy		Date:	
				12/16/2016	
Well Name:		Tyrell		Number:	
				3-17	
County:		Finney		API/UWI:	
City:				State:	
State:		Kansas			



Cement Job Summary

Cust. Rep:		Phone:		Rig Phone:		0
Distance			50 miles (one way)		Supervisor	Aldo Espinosa
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS	
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)		
12/15/2016					DATE	
945pm					on location	
1030pm					rig up	
100pm					safety meeting	
1120pm	2000			1	pressure test lines 2000 psi	
1135pm	160		12	3	12 bbl hivis sweep	
1155pm	60		115	4	230sk/115 bbl lead cement	
12-16 1240am	40		41	4	120sk/41 bbl tail cement	
120am				5	wash pumping lines to pit	
125am				4	release plug, start displacing	
132am	20		20	6	20 bbl gone	
142am	40		20	6	40 bbl gone	
152am	20		10	3	50 bbl in to displacement	
				0	pumps lost prime , ice building up	
					on suction manifold	
					talk to company men and swap to rig pump	
				25 str/min	complete displacement w/524 strokes	
					didn't try to bump plug since we don't	
				.14371 bbl/str	know how accurate rig pump is	
230am	1500				stop and check floats	
233am	0				floats holding	
300am					rig down	