

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

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	PICKLES 1-17
Doc ID	1348424

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	PICKLES 1-17
Doc ID	1348424

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4285-4289- Marmaton A	Frac w/1,000 gal 15% FeMCA & 22 bbl 2% KCL	4285-4289
4	4359-4364- Marmaton D	Frac w/1,000 gal 15% FeMCA & 22 bbl 2% KCL	4359-4364
4	4380-4382; 4385- 4387- Ft. Scott	Frac w/15,000# 20/40 Sand & 423,532 mcf Nitrogen	4380-4387
4	4495-4497- Cherokee	Frac w/12,125# Sand & 363,042 mcf Nitrogen	4495-4497
4	4521-4524; 4573- 4575- Atoka	Frac w/10,000# Sand & 366,231 mcf Nitrogen	4521-4575
4	4729-4733- St. Louis	Frac w/20,000# 20/40 Sand & 525,087 mcf Nitrogen	4729-4733



Cement Job Summary

Job Number: LIB161202	Job Purpose: 01 Surface
Customer: Linn Energy	Date: 12/2/2016
Well Name: Pickeles	Number: 1-17
County: Finney	City:
Cust. Rep: Weldon Higgins	Phone:
Legal Desc: 	Rig Name: Quest Drilling#211
Distance: 50 miles (one way)	Supervisor: James Peppin

Employees:	Emp. ID:	Employees:	Emp. ID:
James Peppin		Jose calderon	
Victor Corona		Ramon Escarcega	

Equipment:
903-5 / 501
842-5 / 1080-4

Well Information					
Open Hole Section					
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)	
OPEN HOLE	12 1/4	100%	1540	1,840	TAIL CEMENT
OPEN HOLE	12 1/4	100%	0	1,540	LEAD CEMENT
OPEN HOLE	12 1/4			0	

Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
PREVIOUS CASING				J-55		
TOTAL CASING	8 5/8	24	8.097	J-55	0	1,819
SHOE	8 5/8	24	8.097	J-55	1,777	1,819

Materials - Pumping Schedule

STAGE #1						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	FRESH WATER	10	8.30	n/a	n/a	
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	113.1656857	8.33	n/a	n/a	

Job Number: LIB161202	Job Purpose: 01 Surface
Customer: Linn Energy	Date: 12/2/2016
Well Name: Pickeles	Number: 1-17
County: Finney	City:
Cust. Rep: Weldon Higgins	Phone:
Distance: 50 miles (one way)	Rig Phone: 0
	Supervisor: James Peppin

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	CASING	ANNULUS	VOLUME	RATE (BPM)	
12:20 AM					left the yard
2:05 AM					arrive on loc and spotted trucks
10:00					had a safety meeting with rig crew
10:25	2000				test lines

Cement Job Summary

10:27	90		10	4	pump H2O ahead
10:30	140		227	5	lead cmt slurry @ 11.8 wt
11:15	110		42	5	tail cmt slurry @ 15.6 wt
10:30					shut down and drop plug
11:32	510				disp plug with H2O
11:53	650		100	5	100 bbls gone on disp
11:55	610		10	3	slow rate down to bump plug
11:57					we didn't bump plug we went
					two bbls over still nothing
					customer said put 200psi on it
					and close the head in
					circ 43 bbls = 87 sks to surf
					the crew and I thank the customer
					for the job



Cement Job Summary

Job Number: Lib1612071521		Job Purpose: 02 Production/Long String	
Customer:	Linn Energy		Date: 12/7/2016
Well Name:	Pickeles	Number:	1-17
County:	Finney	City:	Garden City, KS
Cust. Rep:		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	
Victor Garcia			
Equipment:			
993-541		788-553	
1039-2			

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	4,900
SHOE	5 1/2	15.5	4.892	J-55	4,858	4,900

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	112.9300344	8.33	n/a	n/a	

Job Number: Lib1612071521		Job Purpose: 02 Production/Long String	
Customer:	Linn Energy		Date: 12/7/2016
Well Name:	Pickeles	Number:	1-17
County:	Finney	City:	Garden City, KS
		State:	Kansas



Cement Job Summary

Cust. Rep:		Phone:		Rig Phone: 0	
Distance 50 miles (one way)			Supervisor	Hector Esqueda	
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
10:30					arrived to loaction
10:35					spot trucks in
10:45					rig up the water hoses and the iron to the floor
					wait on rig crew to finish up the casing so we can put on the head and manifold and rig up the rest of the iron
12:30					rig crew done running casing finish rigging up the iron and head and manifold
12:30					prime up the pump and start mixing the 12bbl Hivis Sweep
13:35	3200				pressure test line to 3200Psi
13:39	930		12	2.5	start pumping the Hivis sweep
13:42	620		114	4.5	start pumping the lead cement @ 11.74#
14:20	80		41	4	start the Tail cement @ 13.60#
14:31					shut down close valve to manifold and open the 2' valve to the pit
14:41					stop washing up close the 2' valve going to the pit and open up the top valve on the manifold and drop the plug
14:45	20		113	4.3	start the 113bbbls of KCL water displacement
14:47	30			5	company man wanted to displace @ 5bpm
14:50	30		20	5	20bbbls gone
14:52	130		28		caught cement @ 28bbbls in
14:53	140		30	4	30bbbls gone
14:55	270			5	increased rate back to 5bpm
14:55	280		40	5	40bbbls gone
14:58	410		50	5	50bbbls gone
15:01	500		60	4.8	60bbbls gone
15:03	580		70	4.4	70bbbls gone
15:06	700		80	4	80bbbls gone
15:09	860		90	3.5	90bbbls gone
15:13	1000		100	2.8	100bbbls gone
15:18	1060		110	1.9	110bbbls gone
15:21	1600		113.5		landed plug @ 1600Psi with 113.5bbbls of KCL Water
					wait a few minutes to make sure that the plug landed right
					release pressure to make sure that the floats are holding and they did
					got 1/2bbl back to tank
					rig down released from location @ 16:30