

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](mailto: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	SUDAN INTERIOR MISSION 6-17
Doc ID	1347876

All Electric Logs Run

Microlog
Spectral Density/Dual Spaced/Neutron/Microlog
Array Compensated/True Resistivity Log
Borehole Compensated/Sonic Log

Form	ACO1 - Well Completion
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Well Name	SUDAN INTERIOR MISSION 6-17
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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4280-4286- Marmaton A	Frac w/10,000# Sand & 320,000 mcf Nitrogen	4280-4286
4	4378-4384- Ft. Scott	Frac w/10,000# Sand & 320,000 mcf Nitrogen	4378-4384
5	4667-4670- St. Genevieve	Frac w/20,000# 20/40 Sand & 518,342 mcf Nitrogen	4667-4670





## Cement Job Summary

Job Number: <b>LiB161125</b>	Job Purpose: <b>01 Surface</b>
Customer: <b>Linn Energy</b>	Date: <b>11/25/2016</b>
Well Name: <b>Sudan Interior Mission</b>	Number: <b>6-17</b>
County: <b>Finney</b>	City: <b></b>
Cust. Rep: <b></b>	Phone: <b></b>
Legal Desc: <b></b>	Rig Name: <b>Quest Drilling#211</b>
Distance: <b>50 miles (one way)</b>	Supervisor: <b>James Peppin</b>

Employees:	Emp. ID:	Employees:	Emp. ID:
James Peppin		Jose Calderon	
victor Corona		Cristian Camacho	

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

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	12 1/4	100%	1540	1,835	TAIL CEMENT	
OPEN HOLE	12 1/4	100%	0	1,540	LEAD CEMENT	
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	1,818
SHOE	8 5/8	24	8.097	J-55	1,776	1,818

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	
Disp. 1	0	113.1020022	8.33	n/a	n/a	

Job Number: <b>LiB161125</b>	Job Purpose: <b>01 Surface</b>
Customer: <b>Linn Energy</b>	Date: <b>11/25/2016</b>
Well Name: <b>Sudan Interior Mission</b>	Number: <b>6-17</b>
County: <b>Finney</b>	City: <b></b>
Cust. Rep: <b>Weldon Higgins</b>	Phone: <b></b>
Distance: <b>50 miles (one way)</b>	Rig Phone: <b>0</b>
	Supervisor: <b>James Peppin</b>

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	CASING	ANNULUS	VOLUME	RATE (BPM)	
12:45					left the yard
14:45					arrive on loc and spot the trucks
17:15					safety meeting with the rig crew
17:30	2500				test line
17:33	240		10	5	pump H2O ahead

*Cement Job Summary*

17:35	110		227	6	lead cmt slurry @ 11.8 wt
19:00	60		42	6	tail cmt slurry @ 15.6 wt
19:37					shut down and drop plug
19:40	210		103	6	disp plug with H2O
20:14	820		10	3	slow rate down to bump plug
20:18	1230				bump plug and check float and it held
					bleed back 1/2 bbl
					circ 30 bbls = 61 sks to surface
					shut down and rig down
					crew and I thank the customer for the job





## Cement Job Summary

Job Number: Lib1611292239		Job Purpose 02 Production/Long String	
Customer: Linn Energy			Date: 11/29/2016
Well Name: Sudan Interior Mission	Number: 6-17		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	
Jose Calderon			

Equipment:	Emp. ID:
993-541	955-544
	1039

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	7 7/8	25%	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	220	11.77	2.75	16.50
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	110.0	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	100	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	47.0	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	500.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	25.0	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: Lib1611292239		Job Purpose 02 Production/Long String	
Customer: Linn Energy			Date: 11/29/2016
Well Name: Sudan Interior Mission	Number: 6-17		API/UWI:
County: Finney	City:	State: Kansas	
Cust. Rep:	Phone:	Rig Phone: 0	





### Cement Job Summary

Distance		50 miles (one way)			Supervisor	Hector Esqueda
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS	
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)		
18:00					arrived to location	
18:30					rig up iron	
19:15					prime up pump	
19:45					mix the HIVIC sweep	
20:50	1800				pressure test to 1800Psi	
20:52	280		12	4.1	start pumping the hivic sweep	
20:55	290		107	5	start the lead cement @ 11.77#	
21:18	80		34	5	start the tail cement @ 13.60#	
21:54					shut down (drop the plug)	
					there was a miscommunication	
					with my pumper and I, we opened the top	
					valve on the manifold instead of the 2" valve	
					going to the pit to wash up cement from tub	
					so we ended up wahing up on top of the	
					plug, there will be about 100ft to 150ft	
					behind the plug.	
22:39	1500				the plug did land @ 1500Psi and the floats	
					did hold we got about about 1/2 a bbl	
					back to the tank after releasing pressure.	
					lift pressure before plug landed was 1000Psi	
					at 3bpm	
					rig down iron	