

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 Recompletion Date _____ 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) (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	Merit Energy Company, LLC
Well Name	LONGBOW 4-10
Doc ID	1352982

All Electric Logs Run

ANNULAR HOLE VOLUME PLOT
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1 LOG
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2 LOG
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5 LOG
BOREHOLE SONIC ARRAY LOG
MICROLOG
QUAD COMBO LOG
REPEAT SECTION
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	LONGBOW 4-10
Doc ID	1352982

Tops

Name	Top	Datum
HEEBNER	3813	
TORONTO	3837	
LANSING	3900	
MARMATON	4447	
PAWNEE	4614	
FT SCOTT	4640	
CHEROKEE	4692	
ATOKA	4900	
MORROW	5194	
L. MORROW	5444	
CHESTER	5567	
ST GENEVIEVE	5596	
ST LOUIS	5644	
ST LOUIS B	5700	

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	5700-5708, 5712-5720 St. Louis	Acid-5000 gal 15% HCL, flush w/ 33 bbls fresh water (w/ biocide)	5700-5720



Field Ticket Number: LIB1701081903/0030 Field Ticket Date: Monday, January 09, 2017

Bill To:
MERIT ENERGY COMPANY
Liberal, KS 67901
P O Box 1293 / 1900 W 2nd St

Job Name: 02 Production/Long String
Well Location: Haskell, KS
Well Name: Longbow
Well Number: 4-10
Well Type: New Well
Rig Number:
Shipping Point: Liberal, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
ALDO ESPINOZA		984-	
CRISTIAN CAMACHO		1071-545	
ALEX AYALA		956-841	
VICTOR GARCIA		774-1066	

SERVICES - SERVICES - SERVICES

Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
PUMP, CASING CEMENT 5001-6000 FT	1.00	min. 4 hr	3,099.25	3099.25	1,022.75	67.0%	1,022.75
CMLP	1.00	per day	275.00	275.00	90.75	67.0%	90.75
PHDL	527.00	per cu. Ft.	2.48	1306.96	0.82	67.0%	431.30
DRYG	1076.00	ton-mile	2.75	2959.00	0.91	67.0%	976.47
MILV	50.00	per mile	4.40	220.00	1.45	67.0%	72.60
MIHV	50.00	per mile	7.70	385.00	2.54	67.0%	127.05

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT

GS-5.5	1.00	each	281.00	281.00	126.45	55.0%	126.45
SSFC-5.5	1.00	each	725.00	725.00	326.25	55.0%	326.25
CEN-5.5	25.00	each	57.00	1,425.00	25.65	55.0%	641.25
SC - 5.5	1.00	each	5,335.00	5,335.00	2,400.75	55.0%	2,400.75
TLK - 5.5	6.00	each	85.00	510.00	38.25	55.0%	229.50
CB-5.5	1.00	each	395.00	395.00	177.75	55.0%	177.75

MATERIALS - MATERIALS - MATERIALS

CW-HVS	12.00	bbl	58.70	704.40	19.37	67.0%	232.45
CW-HVS	12.00	bbl	58.70	704.40	19.37	67.0%	232.45
CB-APH ✓	125.00	sack	21.79	2,723.75	7.19	67.0%	898.84
CFL-210	53.00	pound	18.90	1,001.70	6.24	67.0%	330.56
CLC-KOL	625.00	pound	0.98	612.50	0.32	67.0%	202.13
CLC-CPF	32.00	pound	2.97	95.04	0.98	67.0%	31.36
CA-500	525.00	pound	0.88	462.00	0.29	67.0%	152.46
CA-200	767.00	pound	0.68	521.56	0.22	67.0%	172.11
CD-100	21.00	pound	7.73	162.33	2.55	67.0%	53.57
CDF-100P	25.00	pound	3.50	87.50	1.16	67.0%	28.88
CB-ASA ✓	210.00	sack	23.50	4,935.00	7.76	67.0%	1,628.55
CFL-210	99.00	pound	18.90	1,871.10	6.24	67.0%	617.46
CLC-KOL	1050.00	pound	0.98	1,029.00	0.32	67.0%	339.57
CLC-CPF	53.00	pound	2.97	157.41	0.98	67.0%	51.95
CDF-100P	42.00	pound	3.50	147.00	1.16	67.0%	48.51
CB-ASA ✓	50.00	sack	23.50	1,175.00	7.76	67.0%	387.75
CFL-210	24.00	pound	18.90	453.60	6.24	67.0%	149.69
CLC-KOL	250.00	pound	0.98	245.00	0.32	67.0%	80.85



Cement Job Summary

Job Number: LIB1701081903/Job Purpose 02 Production/Long String		Date: 1/9/2017	
Customer: MERIT ENERGY COMPANY		Well Name: Longbow	
County: Haskell		Number: 4-10	
City:		API/UWI:	
Cust. Rep:		State: KS	
Phone:		Rig Name: DUKE 9	
Rig Phone:		Supervisor: Aldo Espinosa	
Legal Desc:		Distance: 50 miles (one way)	

Employees:	Emp. ID:	Employees:	Emp. ID:
ALDO ESPINOZA			
CRISTIAN CAMACHO			
ALEX AYALA			
VICTOR GARCIA			
Equipment:			
984-			
1071-545			
956-841			
774-1066			

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	7 7/8	25%	5000	5,900		
OPEN HOLE	7 7/8			5,000		
OPEN HOLE	7 7/8					
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	1,450
TOTAL CASING	5 1/2	17	4.892	J55	0	5,890
STAGE TOOL	5 1/2	17	4.892	J55		4,992
SHOE	5 1/2	17	4.892	J55	5,848	5,890

Materials - Pumping Schedule						
STAGE #1						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	HIVIS SWEEP	12	8.40	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Tail 1	ALLIED 50/50 POZ BLEND - CLASS H	125	13.60	1.61	7.36	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.42	% BWOC	52.5	lbm	
CLC-KOL	KOL-SEAL	5	lb/sk	625.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	31.3	lbm	
CA-500	GYPSUM	4.2	% BWOC	525.0	lbm	
CA-200	SODIUM CHLORIDE	6.13088	% BWOW	766.4	lbm	
CD-100	CEMENT DISPERSANT	0.168	% BWOC	21.0	lbm	
CDF-100P	DEFOAMER - POWDER	0.2	lb/sk	25.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 3	Displacement	136.1762333	8.33	n/a	n/a	
STAGE #2						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Stg 2 Spacer 1	HIVIS SWEEP	12	8.40	n/a	n/a	



Cement Job Summary

Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	210	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	98.7	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	1050.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	52.5	lbm
CDF-100P	DEFOAMER - POWDER	0.2	lb/sk	42.0	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Tail 2	ALLIED SPECIAL BLEND CEMENT - CLASS A	50	12.10	2.81	16.00
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.47	% BWOC	23.5	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	250.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	12.5	lbm
CDF-100P	DEFOAMER - POWDER	0.2	lb/sk	10.0	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Disp. 1	Displacement	116.2309946	8.33	n/a	n/a

Job Number: LIB1701081903/		Job Purpose: 02 Production/Long String			
Customer: MERIT ENERGY COMPANY			Date: 1/9/2017		
Well Name: Longbow		Number: 4-10	API/UWI:		
County: Haskell	City:	State: KS			
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)	
1/8/2017					DATE
200pm					on location
230pm					rig up
500pm					casing on bottom
515pm					when rig was circulating, when ball hit shoe
					pressured up to 2500 psi
530pm					safety meeting
547pm	3000			1	pressure test lines 3000 psi
548pm	430		12	4	12 bbl havis sweep
554pm	200		35	4	125sk/35 bbl slurry
617pm					shut manifold, drop plug
619pm				3	wash pumping lines to pit
623pm	70			3	start displacement
627pm	70		20	4	20 bbl gone
633pm	120		20	4	40 bbl gone
638pm	140		20	4	60 bbl gone
643pm	130		20	4	80 bbl gone
647pm	300		20	4	100 bbl gone
650pm	360		10	2.5	110 slow down to 2.5 bpm to go thru DV Tool
654pm	500		10	2.5	120 bbl gone
703pm	600		16	2.5	136 bbl shit it in, didn't bump plug
706pm	0				check floats, not holding, 1 bbl back
708pm					talked to company ing. Assuming that
					float is damaged according to the pressure
					registered when ball hit it, decided to wait
710pm					30 min to drop tool opener
740pm					drop tool opener, give 20 min
800pm	900			1.5	open tool 900 psi to open



Cement Job Summary

802pm	300		20	4	brake circulation, swap to rig
					SECOND STAGE
1050pm					swap to pump
1055pm	280		12	4	12 bbl havis sweep
1113pm	60		25	2	cement rat & mouse
1120pm	220		72	4	210sk/72 bbl cement
1155pm				3	wash pumping lines to pit
1201am	100			3	start displacement
1006am	110		20	4	20 bbl gone
1210am	120		20	4	40 bbl gone
1214am	130		20	5	60 bbl gone
1218am	480		20	5	80 bbl gone
1223am	780		20	2.5	100 bbl slow down to 2.5 bpm
1230am	980-2500		16	2.5	116 bbl bump plug, 1500 over
1233am	0				DV Tool holding
1240am					rig down
120am					leave location
					thanks



Cement Job Summary

Job Number: Lib1701031357	Job Purpose: 01 Surface
Customer: MERIT ENERGY COMPANY	Date: 1/3/2017
Well Name: LongBow	Number: 4-10
County: Grant	City: Ulysses, Kansas
Cust. Rep:	Phone:
Legal Desc:	Rig Name: Duke Drilling#9
Distance: 50 miles (one way)	Supervisor: James Peppin

Employees:	Emp. ID:	Employees:	Emp. ID:
James Peppin		Victor Garcia	
Jaime Torrez		Ramon Escarcega	

Equipment:
903-4/501-5
705-4/467-5
1080-4/842-5

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	12 1/4	110%	1283	1,518	TAIL CEMENT	
OPEN HOLE	12 1/4	110%	0	1,283	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	1,515
SHOE	8 5/8	24	8.097	J-55	1,473	1,515

Materials - Pumping Schedule						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	Fresh Water	10	8.33	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	400	12.10	2.55	14.86	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	1128.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	200.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Tail 1	CLASS A COMMON	175	15.20	1.27	5.74	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	1.88	% BWOC	329.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	87.5	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 1	Displacement	93.80588357	8.33	n/a	n/a	

Job Number: Lib1701031357	Job Purpose: 01 Surface
Customer: MERIT ENERGY COMPANY	Date: 1/3/2017
Well Name: LongBow	Number: 4-10
County: Grant	City: Ulysses, Kansas
Cust. Rep:	Phone:
Distance: 50 miles (one way)	Supervisor: James Peppin
Rig Phone:	0

TIME	PRESSURE - (PSI)	FLUID PUMPED DATA	COMMENTS
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