

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
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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
--	---

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 7-10
Doc ID	1365113

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	LONGBOW 7-10
Doc ID	1365113

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	DV@5019		5019
2	5723-5732 St Louis		5723-5732

Field Ticket Number: Lib1705070600/1130	Field Ticket Date:	Sunday, May 07, 2017
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Bill To:
 MERIT ENERGY COMPANY
 Liberal, KS 67901
 P O Box 1293 / 1900 W 2nd St

Job Name: 02 Production/Long String
Well Location: Grant County, KS
Well Name: Longbow
Well Number: 7-10
Well Type: New Well
Rig Number: Duke Drilling # 9
Shipping Point: Liberal, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
Victor Corona-Marta	Jose Calderon	903-4/501-5	
James Phippen	Ramon Escarcega	994-4/467-5	
Victor Garcia			

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	525.00	per cu. Ft.	2.48	1302.00	0.82	67.0%	429.66
DRYG	1069.00	ton-mile	2.75	2939.75	0.91	67.0%	970.12
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

AFFS-5.5	1.00	each	545.00	545.00	245.25	55.0%	245.25
LBP-5.5	1.00	each	660.00	660.00	297.00	55.0%	297.00
CEN-5.5	20.00	each	57.00	1,140.00	25.65	55.0%	513.00
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

MATERIALS - MATERIALS - MATERIALS

CW-HVS	20.00	bbl	58.70	1,174.00	19.37	67.0%	387.42
CW-HVS	12.00	bbl	58.70	704.40	19.37	67.0%	232.45
CB-APH	140.00	sack	21.79	3,050.60	7.19	67.0%	1,006.70
CFL-210	59.00	pound	18.90	1,115.10	6.24	67.0%	367.98
CLC-KOL	700.00	pound	0.98	686.00	0.32	67.0%	226.38
CLC-CPF	35.00	pound	2.97	103.95	0.98	67.0%	34.30
CA-500	588.00	pound	0.88	517.44	0.29	67.0%	170.76
CA-200	870.00	pound	0.68	591.60	0.22	67.0%	195.23
CGEL	236.00	pound	1.05	247.80	0.35	67.0%	81.77
CD-100	24.00	pound	7.73	185.52	2.55	67.0%	61.22
CB-ASA	245.00	sack	23.50	5,757.50	7.76	67.0%	1,899.98
CFL-210	116.00	pound	18.90	2,192.40	6.24	67.0%	723.49
CLC-KOL	1225.00	pound	0.98	1,200.50	0.32	67.0%	396.17
CLC-CPF	62.00	pound	2.97	184.14	0.98	67.0%	60.77

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS



Cementing Services
Field Ticket
TAX ID: 81-1373543

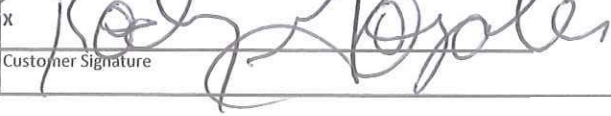
Printed on 5/7/2017 at 12:36 PM

Additional hours, in excess of set hours	per hour	440.00	0.00	145.20	67.0%	0.00
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	Gross	Discount	Final
Services Total	8,221.00	5,508.07	2,712.93
Equipment Total	8,190.00	4,504.50	3,685.50
Materials Total	17,710.95	11,866.34	5,844.61
Additional Items	0.00	0.00	0.00
Final Total	34,121.95	21,878.91	12,243.04

Customer Agent: Victor Corona-Marta
Rodney Gonzales

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X 
Customer Signature

Field Ticket Total (USD): \$12,243.04

ect to ang
ED shall be added to the qu
:equipment. Should ALLIED be unable to do so be
he job site, the tractor or pulling equipment will l
the order after preparation of a chemical solution or other materi
il charge as set forth in ALLIED'S current price book will be charge
: are so many uncertain and unknown conditions bey
formance of the job or delivery of the merchandise. CUSTO
ist any and all claims or suits for:
or death, brought by any person, including CUSTOMER ar
to the well, reservoir loss, or damage arising from a well b
... contract, unless suc
ich are lost in the well or damaged
for CUSTOMER and before return
unless the loss or damage results f

Handwritten notes:
Long Bay
Rodney Gonzales
5/7/17

Red stamp:
WELL OFFICE
CUSTOMER SIGNATURE

cts,
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Cement Job Summary

Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.47	% BWOC	115.2	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	1225.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	61.3	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Disp. 1	Displacement	116.6726724	0.00	n/a	n/a

Job Number: Lib1705070600/		Job Purpose: 02 Production/Long String	
Customer: MERIT ENERGY COMPANY			Date: 5/7/2017
Well Name: Longbow		Number: 7-10	API/UWI:
County: Grant County	City: Ulysses, Kansas		State: KS
Cust. Rep:	Phone:	Rig Phone:	0
Distance: 50 miles (one way)		Supervisor:	Victor Corona-Marta

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	AM/PM	CASING	ANNULUS	VOLUME	
5/6/2017					DATE
2100					Arrived at location
345				1st STG	Safety meeting
400	2000				Pressure test @ 2000psi
405	200		20	4	20bbls spacer HIVIS sweep
410	420		40	5	Lead cement 40bbls @13.6lbs 140sks
445					Drop plug
450	200		20	4	20bbls Disp with water
504	220		40	5	40bbls disp gone with mud
514	170		60	5	60bbls gone with mud
524	180		80	5	80bbls gone with mud
534	290		100	5	100bbls gone with mud
543	500		120	5	120bbls gone with mud
546	500		126	3	126bbls gone slow down rate
600	1060				Bump plug and check float
606					Drop bomb
630	800				Open dv tool at 800psi
930					2nd Satge
1000					Rat and mouse 17bbls @13.6 50sks
1015	350		12	4	12bbls Spacer HIVIS Sweep
1022	400		66	5	Tail cement 66bbls @13.61lbs 195sks
1054					Drop plug
					Displ with 116bbls with H2O
1109	190		50	6	50bbls gone
1122	830		100	6	100bbls gone
1124	970		106	3	106bbls gone slow down rate
1130	2300		2300		Bump plug and check float
					Had 1/2 of water returns
					Rig down
					Crew and I thanked the company man and rig crew for job opportunity.



Depend on US

Post Job Report

Merit Energy

Longbow 7-10

5/3/2017

8.625" Surface Casing

Grant County, KS





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1.0 Executive Summary

BJ Services would like to thank you for the award of the provision of cementing products and services on the well Longbow 7-10.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

BJ started the job testing lines to 2000 psi. After a successful test we began the job by pumping 10 bbl Fresh Water. We then mixed and pumped the following cements:

Lead:

161.23 bbl	355 Sacks of 12.1 ppg
Class A Slurry -	2.55 Yield

- 2.0% Sodium Metasilicate
- 2.0% Gypsum
- 4.0% Gel
- 2.0% Sodium Chloride
- 3.0 % Calcium Chloride
- 0.25 lb Cellophane Flake

Tail:

39.58 bbl	175 Sacks of 15.2 ppg
Class A Slurry -	1.27 Yield

- 2.0 % Calcium Chloride
- 0.25 lb Cellophane Flake

The top plug was then released and displaced with 90 Bbls of Fresh Water. The plug bumped and was pressured to 850 psi. Upon release the floats held. 50 bbl cement returned to surface.

All real-time data can be view in the Job Summary section.

BJ Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again, we want to thank you for the opportunity to perform these and your future cementing & acidizing services.



Cement Job Summary

Job Number:	Lib1705031144	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY		Date:	5/3/2017	
Well Name:	Longbow	Number:	7-10	API/UWI:	
County:	Grant	City:	Ulysses	State:	KS
Cust. Rep:		Phone:		Rig Phone:	
Legal Desc:		Rig Name:	Duke#9		
Distance	50 miles (one way)		Supervisor		

Employees:	Emp. ID:	Employees:	Emp. ID:
Erik Chavez	#N/A	Jose Calderon	#N/A
Jaime Torres	#N/A	Gerardo Burciaga	#N/A

Equipment:	
549-4 / 550-5	774-4 / 1066-5
	994-4 / 467-5

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	12 1/4	0%	965	1,465	TAIL CEMENT	
OPEN HOLE	12 1/4	130%	0	965	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	1,455
SHOE	8 5/8	24	8.097	J-55	1,413	1,455

Materials - Pumping Schedule						
STAGE #1						
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	355	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	1001.1	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	177.5	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)	
Acid	MUD	0	9.00	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 1	Displacement	89.96640175	8.33	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	

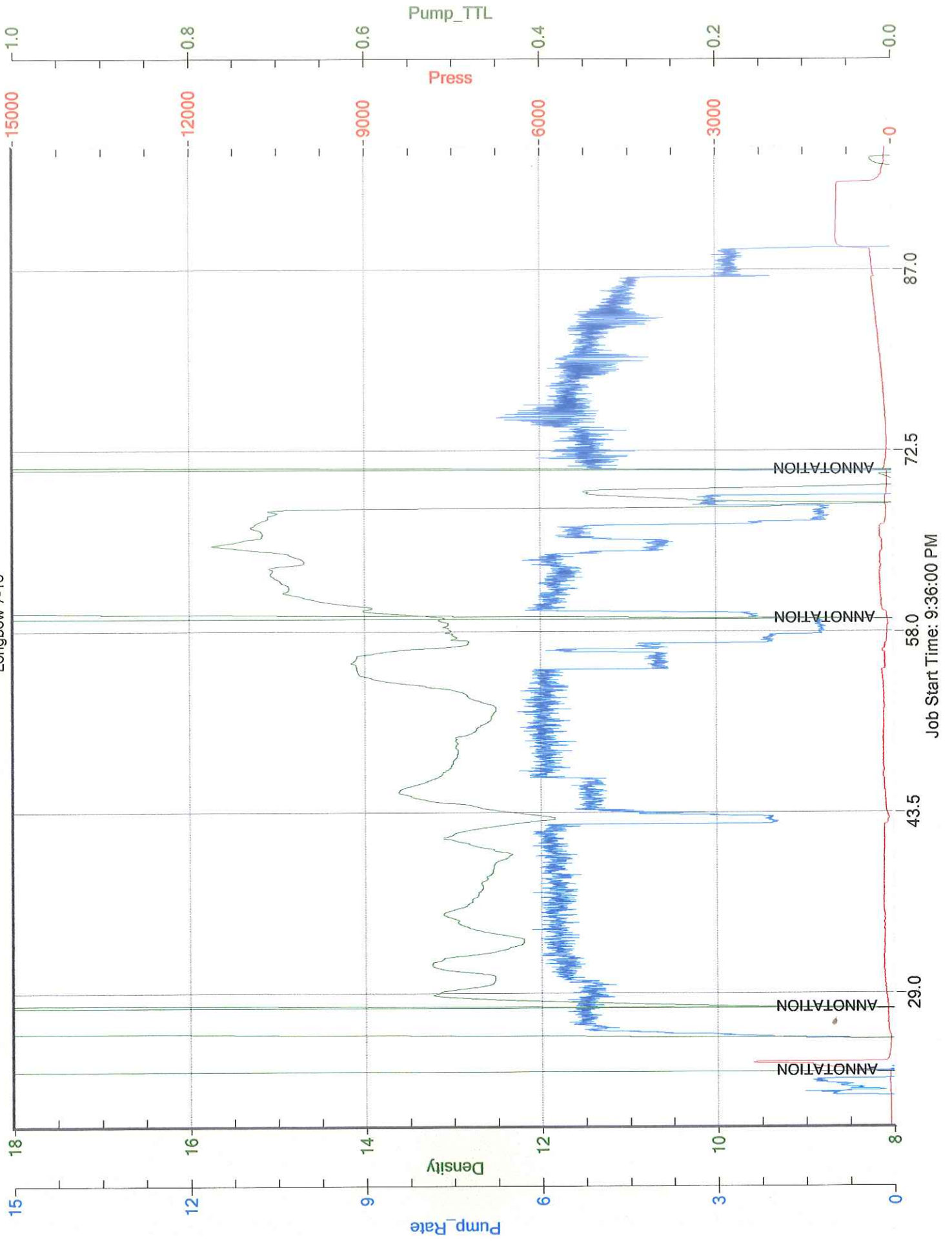
Job Number:	Lib1705031144	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY		Date:	5/3/2017	
Well Name:	Longbow	Number:	7-10	API/UWI:	
County:	Grant	City:	Ulysses	State:	KS
Cust. Rep:		Phone:		Rig Phone:	0



Cement Job Summary

Distance		50 miles (one way)			Supervisor	Erik Chavez
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS	
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)		
7:00					Arrive on Location	
					Pre-Rig up Safety Meeting	
					Rig up Equipment	
					Wait on Customer	
10:28					Operation Safety Meeting	
10:35					Prime Lines	
10:39					Test Lines	
10:41	90		10	3	Spacer 1 / H2O	
					LCMT 355 sks @ 12.1 ppg	
10:47	150		20	5.7	Pressure / Volume / Rate	
10:51	160		40	5.7	Pressure / Volume / Rate	
10:55	150		60	6.0	Pressure / Volume / Rate	
11:05	150		100	6.0	Pressure / Volume / Rate	
11:08	170		140	5.9	Pressure / Volume / Rate	
11:12	150		160	6.0	Pressure / Volume / Rate	
					TCMT 175 sks @ 15.2 ppg	
11:15	200		10	5.6	Pressure / Volume / Rate	
11:18	200		20	5.8	Pressure / Volume / Rate	
11:19	170		30	4.2	Pressure / Volume / Rate	
11:21	150		40	4.2	Pressure / Volume / Rate	
11:25					Shutdown / Drop Plug / Wash Equipment	
					Displacement	
11:31	110		30	5.8	Pressure / Volume / Rate	
11:34	190		45	5.8	Pressure / Volume / Rate	
11:36	230		60	4.6	Pressure / Volume / Rate	
11:40	260		75	4.3	Pressure / Volume / Rate	
11:41	350		80	2.7	Slow Rate	
11:44	850		90	2	Bump Plug	
11:49					Release Pressure / Check Floats	
12:00					After Action Review	
12:20					Pre-Rig down Safety Meeting	
12:30					Rig-Down Equipment	
13:00					Leave Location	
			50		Cement Back to Surface	

Merit Energy Longbow 7-10





Customer: MERIT ENERGY COMPANY
Date: Wednesday, May 03, 2017
Well Name: Longbow # 7-10
Well Location: Ulysses
Supervisor: Erik Chavez

Equipment Operators: _____

Performance	Customer	
Was the appearance of the personnel and equipment satisfactory?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Was the job performed in a professional manner?	<input type="radio"/> Yes	<input type="radio"/> No
Were the calculations prepared and explained properly?	<input type="radio"/> Yes	<input type="radio"/> No
Were the correct services dispatched to the job site?	<input type="radio"/> Yes	<input type="radio"/> No
Were the services performed as requested?	<input type="radio"/> Yes	<input type="radio"/> No
Did the job site environment remain unchanged?	<input type="radio"/> Yes	<input type="radio"/> No
Did the equipment perform in the manner expected?	<input type="radio"/> Yes	<input type="radio"/> No
Did the materials meet your expectations?	<input type="radio"/> Yes	<input type="radio"/> No
Was the crew prepared for the job?	<input type="radio"/> Yes	<input type="radio"/> No
Was the crew prompt in the rig-up and actual job?	<input type="radio"/> Yes	<input type="radio"/> No
Were reasonable recommendations given, as requested?	<input type="radio"/> Yes	<input type="radio"/> No
Did the crew perform safely?	<input type="radio"/> Yes	<input type="radio"/> No
Was the job performed to your satisfaction?	<input type="radio"/> Yes	<input type="radio"/> No

Customer Signature:  Date: 5-3-17

Additional Comments:
Good job!



CEMENT MIXING WATER GUIDELINES

Company Name: MERIT ENERGY COMPANY

Lease Name: Longbow # 7-10

County Grant State KS


Water Source: TANK

Submitted By: Erik Chavez Date: 5/3/2017

pH Level	<u>7</u>	Must be less than 8.5
Sulfates	<u>400</u>	Must be less than 1,000 PPM
Chlorides	<u>0</u>	Must be less than 3,000 PPM
Temperature	<u>64</u>	

COMMENTS

Thank You

Customer Signature 



Depend on US

Post Job Report

Merit Energy

Longbow 7-10

5/7/2017

5.5" 2-Stage Production Casing

Grant County, KS





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1.0 Executive Summary

BJ Services would like to thank you for the award of the provision of cementing products and services on the well Longbow 7-10 intermediate casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

BJ started the job testing lines to 2500 psi. After a successful test we began the job by plugging the rat hole and mouse hole with 50 sacks and then began pumping 12 bbls of HiVis Sweep spacer. We then mixed and pumped the following cements:

1st Stage:

40.64 bbl	140 Sacks of 13.6 ppg
50/50:Class H Slurry -	1.63 Yield
10.0% Salt	
5.0% Gypsum	
2.0% Gel	
0.5% CFL-210	
0.2% CD-100	
5.0 lb Kol-Seal	
0.25 lb Cellophane Flake	

2nd Stage:

66.68 bbl	195 Sacks of 13.6 ppg
Class A Slurry -	1.92 Yield
10.0% Salt	
6.0% Gypsum	
2.0% Gel	
0.5% CFL-210	
5.0 lb Kol-Seal	
0.25 lb Cellophane Flake	

The first stage was displaced with 126 bbl. The plug bumped and was pressured to 1060 psi. Upon release the floats held. The opening tool was dropped, and BJ waited 30 minutes before opening the tool. The second stage was displaced with 106 bbl.

All real-time data can be view in the Job Summary section.

BJ Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again, we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



Cement Job Summary

Job Number: LIB105070600/1180		Job Purpose: 02 Production/Long String	
Customer:	MERIT ENERGY COMPANY		Date: 5/7/2017
Well Name: Longbow	Number: 7-10		API/UWI:
County: Grant County	City: Ulysses, Kansas		State: KS
Cust. Rep:	Phone:	Rig Phone:	
Legal Desc:	Rig Name: Duke Drilling#9		
Distance: 50 miles (one way)	Supervisor: Victor Corona-Marta		

Employees:	Emp. ID:	Employees:	Emp. ID:
Victor Corona-Marta		Jose Calderon	
James Pippen		Ramon Escarcega	
Victor Garcia			
Equipment:			
903-4/501-5			
994-4/467-5			

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	7 7/8	30%	5929	5,950		
OPEN HOLE	7 7/8			5,929		
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	1,480
TOTAL CASING	5 1/2	17	4.892	J55	0	5,950
STAGE TOOL	5 1/2	17	4.892	J55		5,019
SHOE	5 1/2	17	4.892	J55	5,908	5,950

Materials - Pumping Schedule						
STAGE #1						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	HIVIS SWEEP	20	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	140	13.60	1.63	7.46	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.42	% BWOC	58.8	lbm	
CLC-KOL	KOL-SEAL	5	lb/sk	700.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	35.0	lbm	
CA-500	GYP SUM	4.2	% BWOC	588.0	lbm	
CA-200	SODIUM CHLORIDE	6.21418	% BWOW	870.0	lbm	
CGEL	GEL - BENTONITE	1.68	% BWOC	235.2	lbm	
CD-100	CEMENT DISPERSANT	0.168	% BWOC	23.5	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 3	Displacement	137.3385432	0.00	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	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Stg 2 Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	245	13.60	1.92	9.56	

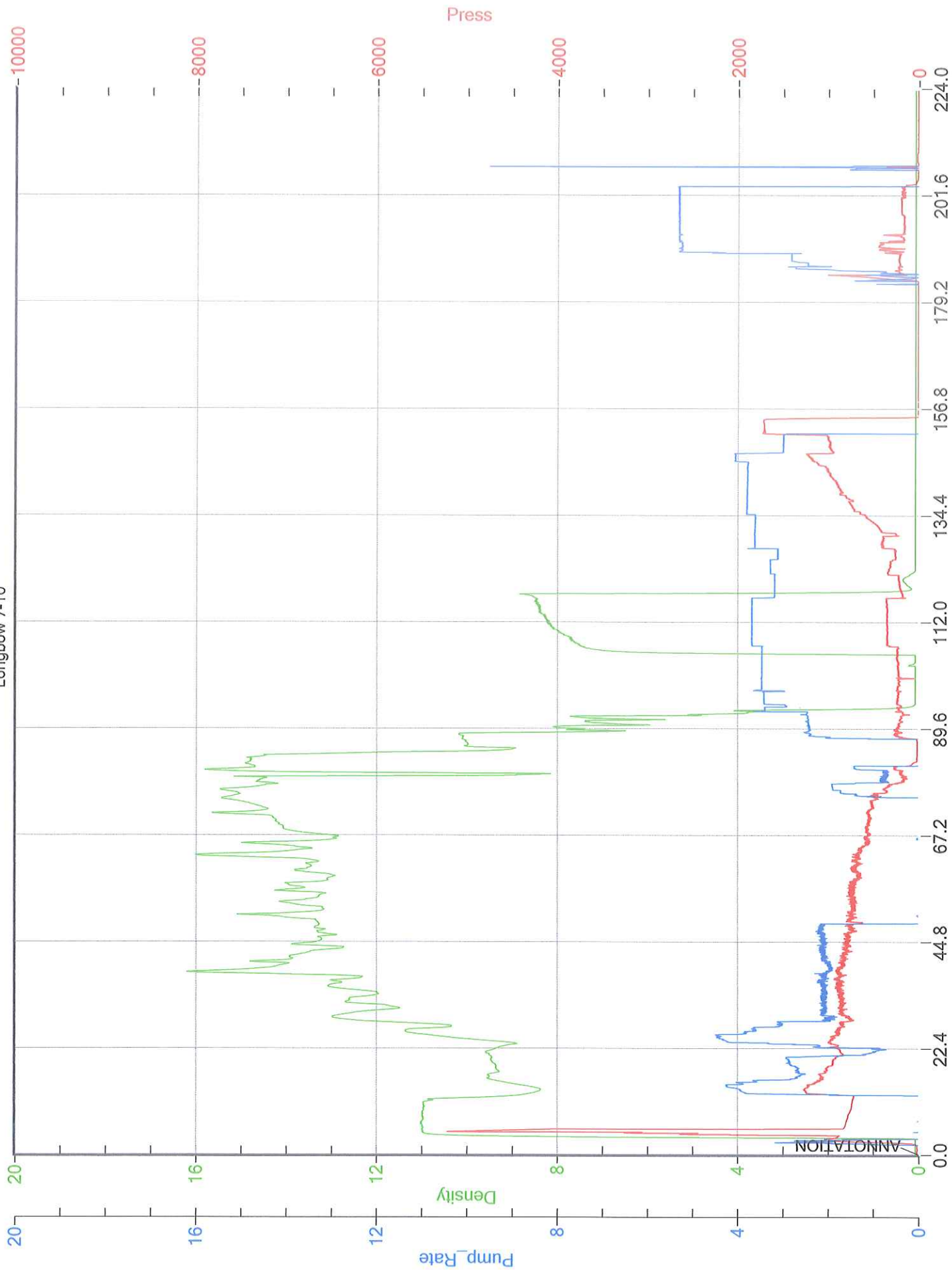


Cement Job Summary

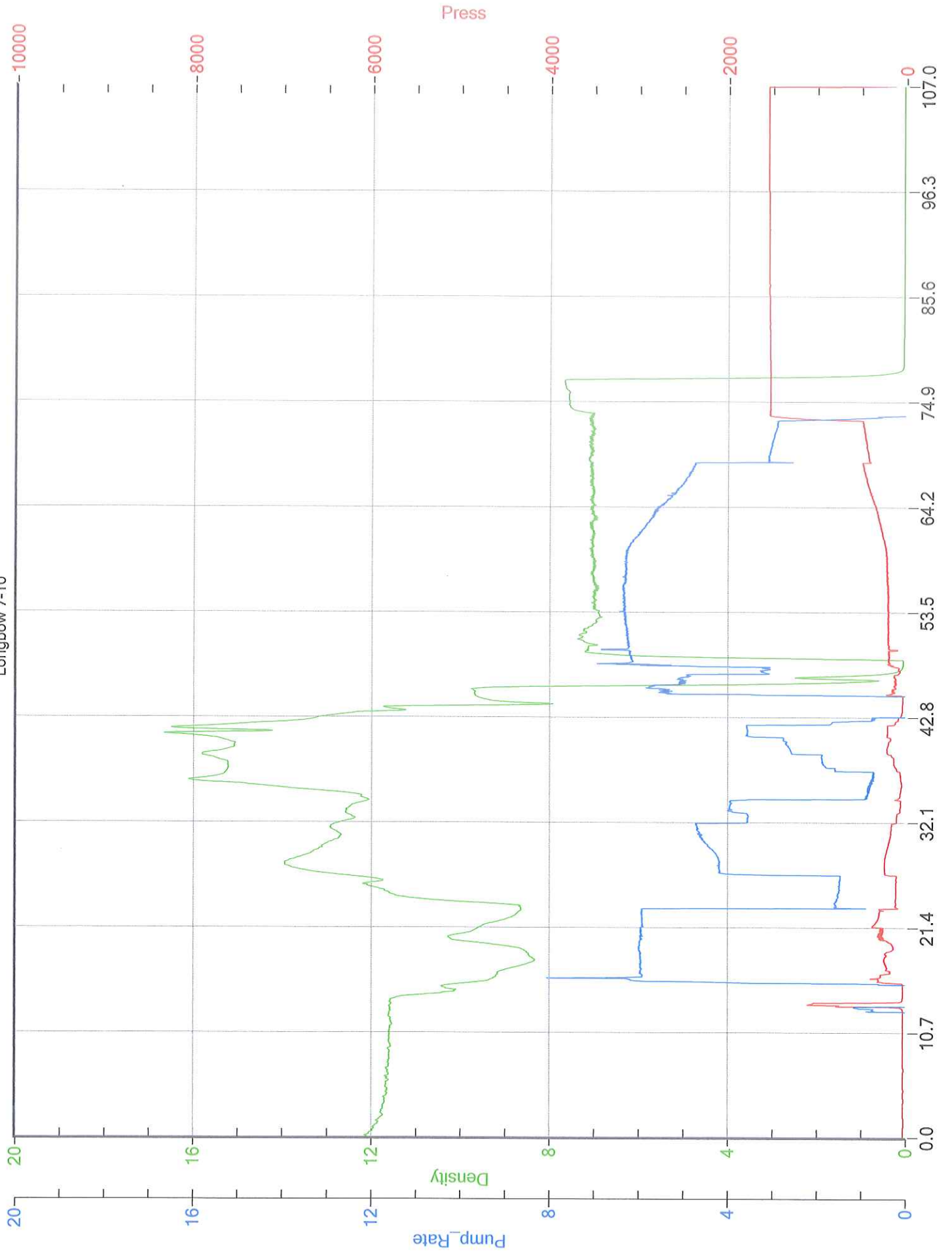
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.47	% BWOC	115.2	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	1225.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	61.3	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Disp. 1	Displacement	116.6726724	0.00	n/a	n/a

Job Number: Lib1705070600/		Job Purpose: 02 Production/Long String			
Customer: MERIT ENERGY COMPANY			Date: 5/7/2017		
Well Name: Longbow		Number: 7-10	API/UWI:		
County: Grant County	City: Ulysses, Kansas		State: KS		
Cust. Rep:	Phone:	Rig Phone:	0		
Distance: 50 miles (one way)		Supervisor:	Victor Corona-Marta		
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
5/6/2017					DATE
2100					Arrived at location
345				1st STG	Safety meeting
400	2000				Pressure test @ 2000psi
405	200		20	4	20bbls spacer HIVIS sweep
410	420		40	5	Lead cement 40bbls @13.6lbs 140sks
445					Drop plug
450	200		20	4	20bbls Disp with water
504	220		40	5	40bbls disp gone with mud
514	170		60	5	60bbls gone with mud
524	180		80	5	80bbls gone with mud
534	290		100	5	100bbls gone with mud
543	500		120	5	120bbls gone with mud
546	500		126	3	126bbls gone slow down rate
600	1060				Bump plug and check float
606					Drop bomb
630	800				Open dv tool at 800psi
930					2nd Satge
1000					Rat and mouse 17bbls @13.6 50sks
1015	350		12	4	12bbls Spacer HIVIS Sweep
1022	400		66	5	Tail cement 66bbls @13.61lbs 195sks
1054					Drop plug
					Displ with 116bbls with H2O
1109	190		50	6	50bbls gone
1122	830		100	6	100bbls gone
1124	970		106	3	106bbls gone slow down rate
1130	2300		2300		Bump plug and check float
					Had 1/2 of water returns
					Rig down
					Crew and I thanked the company man and rig crew for job opportunity.

Merit 1 stg Longbow 7-10



Merit 2 stg Longbow 7-10

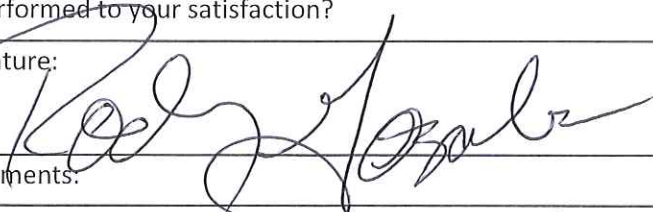




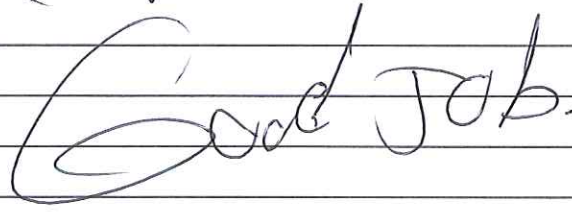
Customer: MERIT ENERGY COMPANY
Date: Saturday, May 06, 2017
Well Name: Longbow # 7-10
Well Location: Ulysses, Kansas
Supervisor:

Equipment Operators:

Performance	Customer	
Was the appearance of the personnel and equipment satisfactory?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Was the job performed in a professional manner?	<input type="radio"/> Yes	<input type="radio"/> No
Were the calculations prepared and explained properly?	<input type="radio"/> Yes	<input type="radio"/> No
Were the correct services dispatched to the job site?	<input type="radio"/> Yes	<input type="radio"/> No
Were the services performed as requested?	<input type="radio"/> Yes	<input type="radio"/> No
Did the job site environment remain unchanged?	<input type="radio"/> Yes	<input type="radio"/> No
Did the equipment perform in the manner expected?	<input type="radio"/> Yes	<input type="radio"/> No
Did the materials meet your expectations?	<input type="radio"/> Yes	<input type="radio"/> No
Was the crew prepared for the job?	<input type="radio"/> Yes	<input type="radio"/> No
Was the crew prompt in the rig-up and actual job?	<input type="radio"/> Yes	<input type="radio"/> No
Were reasonable recommendations given, as requested?	<input type="radio"/> Yes	<input type="radio"/> No
Did the crew perform safely?	<input type="radio"/> Yes	<input type="radio"/> No
Was the job performed to your satisfaction?	<input type="radio"/> Yes	<input type="radio"/> No

Customer Signature: 

Date: 5-7-17

Additional Comments:




CEMENT MIXING WATER GUIDELINES

Company Name:

MERIT ENERGY COMPANY

Lease Name:

Longbow # 7-10

County

Grant County

State

KS

Water Source:

TANK

Submitted By:

Date:

5/6/2017

pH Level

7

Must be less than 8.5

Sulfates

400

Must be less than 1,000 PPM

Chlorides

0

Must be less than 3,000 PPM

Temperature

64

COMMENTS

Customer Signature

Thank You