Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1326751

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32446
Name: Merit Energy Company, LLC
Address 1: 13727 NOEL RD STE 1200
Address 2:
City: DALLAS State: TX Zip: 75240 + __ __ __ __
Contact Person: IDANIA MEDINA
Phone: (620) 629-4228
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Merit Energy Geologist
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☑ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

9/11/2016	9/21/2016	10/7/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-081-22147-00-00
Spot Description:
NE - SE - SE - NW Sec. 21 Twp. 29 S. R. 33 ☐ East ☑ West
2144 Feet from ☑ North / ☐ South Line of Section
2312 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Haskell
Lease Name: MABEL Well #: 1-21
Field Name: Lemon Northeast
Producing Formation: Dry
Elevation: Ground: 2956 Kelly Bushing: 2969
Total Vertical Depth: 5780 Plug Back Total Depth: 5703
Amount of Surface Pipe Set and Cemented at: 489 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: 800 ppm Fluid volume: 360 bbls
Dewatering method used: Evaporated
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**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 02/02/2017

[redacted]

1326751

Operator Name: Merit Energy Company, LLC Lease Name: MABEL Well #: 1-21

Sec. 21 Twp. 29 S. R. 33 ☐ East ☑ West County: Haskell

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	489	CLASS A	1000	SEE ATTACHED
Intermediate	7.875	5.5	17	1580	CLASS A	430	SEE ATTACHED
Production	6.125	4.5	11.6	5780	Class A	162	See Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MABEL 1-21
Doc ID	1326751

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MABEL 1-21
Doc ID	1326751

Tops

Name	Top	Datum
CHASE	2650	.
COUNCIL GROVE	2949	.
HEEBNER	4100	.
LANSING	4190	.
SWOPE	4635	.
HERTHA	4689	.
MARMATON	4689	.
CHEROKEE	4956	.
ATOKA	5130	.
MORROW	5253	.
ST GENEVIEVE	5569	.

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MABEL 1-21
Doc ID	1326751

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	5410-5415 Morrow		5410-5415
	CIBP@5408		5408
2	5390-5394, 5397-5401 Morrow		5390-5401
	CIBP 5350		5350
4	4818-4822 Marmaton	Acid 1)12 bbls of 20% acid, flushed w/ 20 bbls of 2% KCL water	4818-4822
		2) 36 bbls of 20% acid, 20 bioballs, 20 bbls of 2% KCL flush	
	CIBP@4780		4780
2	4359-5361 Lansing F		4359-5361
	CIBP@4330		4330
2	4244-4246 Lansing C	Acid 1) 5 bbls of 2% KCL water	4244-4246
		2) 500 gals of 20% HCL acid flush of 2% KCL water	
2	4244-4248 Lansing C		4244-4248

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MABEL 1-21
Doc ID	1326751

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	489	CLASS A	1000	SEE ATTACHED
Intermediate	7.875	5.5	17	1580	CLASS A	430	SEE ATTACHED
Production	6.125	4.5	11.6	5780	Class A	162	See Attached

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 11, 2017

IDANIA MEDINA
Merit Energy Company, LLC
13727 NOEL RD STE 1200
DALLAS, TX 75240

Re: ACO-1
API 15-081-22147-00-00
MABEL 1-21
NW/4 Sec.21-29S-33W
Haskell County, Kansas

Dear IDANIA MEDINA:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 9/11/2016 and the ACO-1 was received on January 10, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

ALLIED OFS, LLC

Depend on US

Post Job Report

Merit Energy

Mabel 1-21
9/14/2016-9/19/2016
8.625" Surface Casing
Haskell County, KS

Table of Contents:

ALLIED OFS,LLC

Merit Energy
Mabel 1-21
Haskell County, KS

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Mabel 1-21.

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

Allied returned to location four times to cement surface casing due to hole trouble and cement falling repeatedly. Allied started each job testing lines to 2000 psi. After a successful test we began the job by pumping 10 bbls of Fresh Water spacer. We then mixed and pumped the following cements:

Job 1:

363.32	bbl	800	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

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

2.0 % Calcium Chloride
0.25 lb Cellophane Flake

Job 2:

26.36	bbl	100	Sacks of 14.8 ppg	
Class A Slurry -		1.48	Yield	

6.0% Gypsum
2.0% Gel
10.0% Sodium Chloride

42.39	bbl	200	Sacks of 15.6 ppg
Class H Slurry -		1.19	Yield

2.0 % Calcium Chloride
0.25 lb Cellophane Flake

182.55	bbl	500	Sacks of 13.0 ppg	
Class A Slurry -		2.05	Yield	

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

Topped out with 200 sacks (42.38 bbl) of Class A with 2% Calcium Chloride mixed at 15.6 and 1.2 yield. Cement to Surface.

Job 3:

172.58	bbl	380	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

11.31	bbl	50	Sacks of 15.2 ppg
Class A Slurry -		1.27	Yield

2.0 % Calcium Chloride
0.25 lb Cellophane Flake

Job 4:

16.96	bbl	80	Sacks of 15.6 ppg
Class A Slurry -		1.19	Yield

3.0 % Calcium Chloride

17.38	bbl	82	Sacks of 15.6 ppg
Class A Slurry -		1.19	Yield

2.0 % Calcium Chloride

The top plug was then released and displaced with 90 Bbls of Fresh Water. The plug bumped and was pressured to 1000 psi. Upon release the floats held. 105 bbl cement returned to the pit.

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

Allied Oil & Gas 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.

ALLIED OFS, LLC

Cement Job Summary

Job Number:	Lib1609141546	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY			Date:	9/14/2016
Well Name:	Mabel		Number: 1-21	API/UWI:	
County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	
Legal Desc:				Rig Name:	Duke Drilling#9
Distance	50 miles (one way)		Supervisor Hector E.		

Employees:	Emp. ID:	Employees:	Emp. ID:
Lenny B.		Hector E.	
Carlos I.		Victor G.	
Victor V			

Equipment:	
903-541	993-467
1080-842	774-1066

Well Information

Open Hole Section

Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)	
OPEN HOLE	12 1/4	110%	1245	1,480	TAIL CEMENT
OPEN HOLE	12 1/4	110%	0	1,245	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	1,480
SHOE	8 5/8	24	8.097	J-55	1,438	1,480

Materials - Pumping Schedule

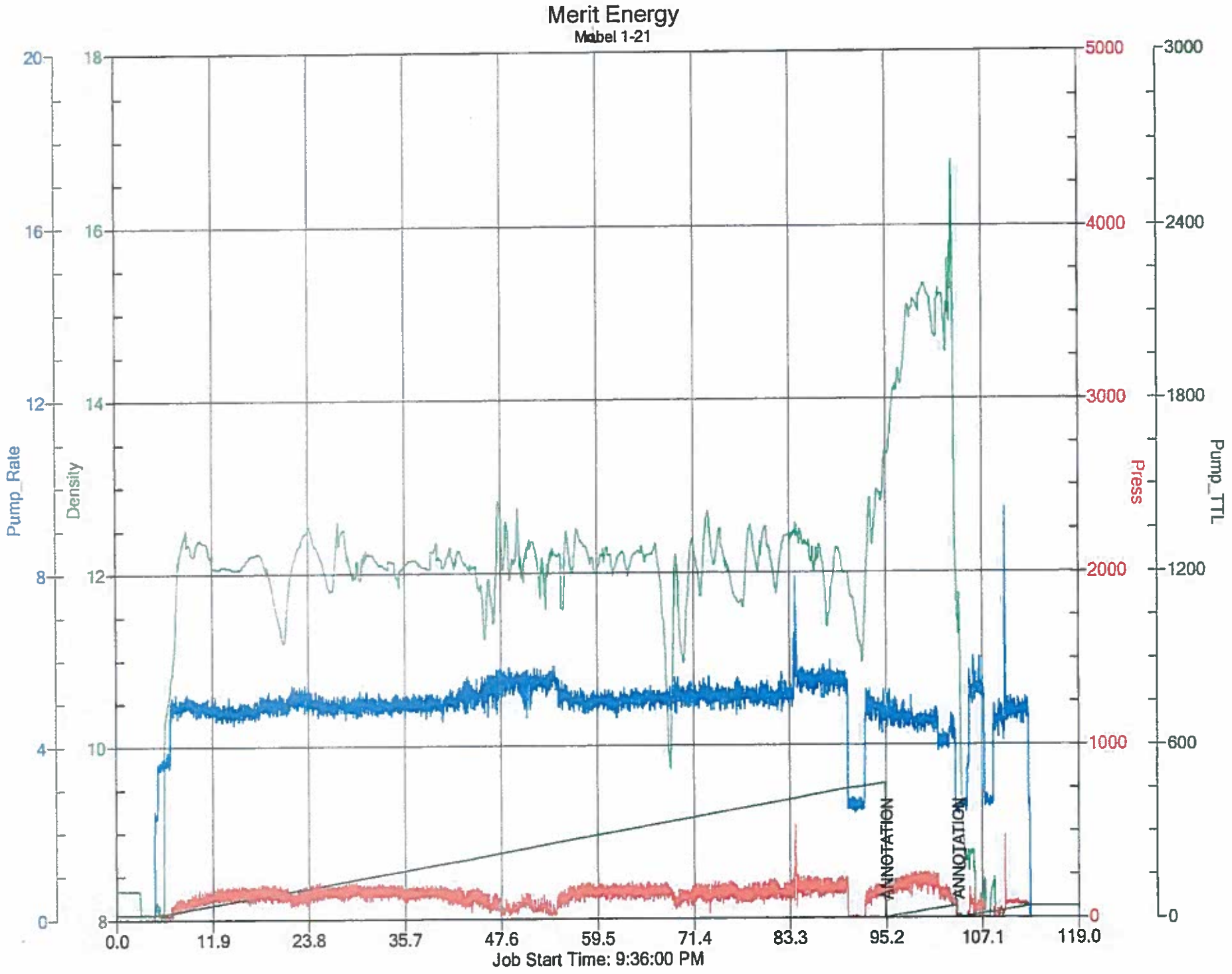
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	Fresh Water	10	8.33	n/a	n/a
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	800	12.10	2.55	14.86
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	2256.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	400.0	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	91.57695897	8.33	n/a	n/a

Job Number:	Lib1609141546	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY			Date:	9/14/2016
Well Name:	Mabel		Number: 1-21	API/UWI:	
County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	0
Distance	50 miles (one way)		Supervisor	Hector Esqueda	

ALLIED OFS,LLC

Cement Job Summary

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
3:00					Call Out
5:00					Arrived to location
12:30					Rig up
13:40					Prime Up
13:57	160		365	5	Start Lead Cement @ 12.1#
15:22				2.5	Slowed rate to switch hose on trucks
15:26	150		39	5	Start Tail Cement @ 15.2#
15:36			32	3	Wash up And Start 32bbls Displacement
					and go half a barrel over displacement
					Company men request
15:46					32bbls gone and no psi shut valve on swedge
					going to wait 2.5hr for cement to set
					did not get cement to surface or had any
					returns durning the whole job
					Waiting to see how much cement
					to do 1" down the casing or down 8 5/8 casing


Merit Energy
Mabel 1-21
Pump_Rate
Density
Press
Pump_TTL
20
16
12
8
4
0
18
16
14
12
10
8
5000
4000
3000
2000
1000
0
3000
2400
1800
1200
600
0
0.0
11.9
23.8
35.7
47.6
59.5
71.4
83.3
95.2
107.1
119.0
ANNOTATION
ANNOTATION
Job Start Time: 9:36:00 PM

ALLIED OFS, LLC

CEMENT MIXING WATER GUIDELINES

Company Name: MERIT ENERGY COMPANY

Lease Name: Mabel # 1-21

County: Finney State: KS

Water Source: TANK

Submitted By: Hector E. Date: 9/14/2016

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	65	

COMMENTS

Customer Signature

Thank You

ALLIED OFS, LLC

Customer: MERIT ENERGY COMPANY

Date: Wednesday, September 14, 2016

Well Name: Mabel # 1-21

Well Location: Garden City

Supervisor: Hector E.

Equipment Operators: Lenny B. - Hector E. - Carlos I. - Victor G. - Victor V

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

Customer Signature: [signature]

Date: 9/14/2016

Additional Comments:

ALLIED OFS,LLC

Cement Job Summary

Job Number:	Lib1609160103	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY			Date:	9/16/2016
Well Name:	Mabel		Number: 1-21	API/UWI:	
County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	
Legal Desc:				Rig Name:	Duke Drilling#9
Distance	50 miles (one way)			Supervisor:.	Lenny Baeza

Employees:	*Emp. ID:*	*Employees:*	*Emp. ID:*
Lenny B.		Alex A	
Cristian C.		Ramon E.	

Equipment:	
903-541	993-467
1080-842	

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	12 1/4	110%	254	489	TAIL CEMENT	
OPEN HOLE	12 1/4	110%	0	254	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	489
SHOE	8 5/8	24	8.097	J-55	448	489

Materials - Pumping Schedule					
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	500	13.00	2.05	11.10
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	1410.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	250.0	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Lead 2	ALLIED SPECIAL BLEND CEMENT - CLASS A	100	14.83	1.48	6.80
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 1	CLASS H PREMIUM	200	15.63	1.19	5.20
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	1.99985	% BWOC	400.0	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 2	CLASS A COMMON	200	15.63	1.19	5.20
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	1.99985	% BWOC	400.0	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	28.53023478	8.33	n/a	n/a

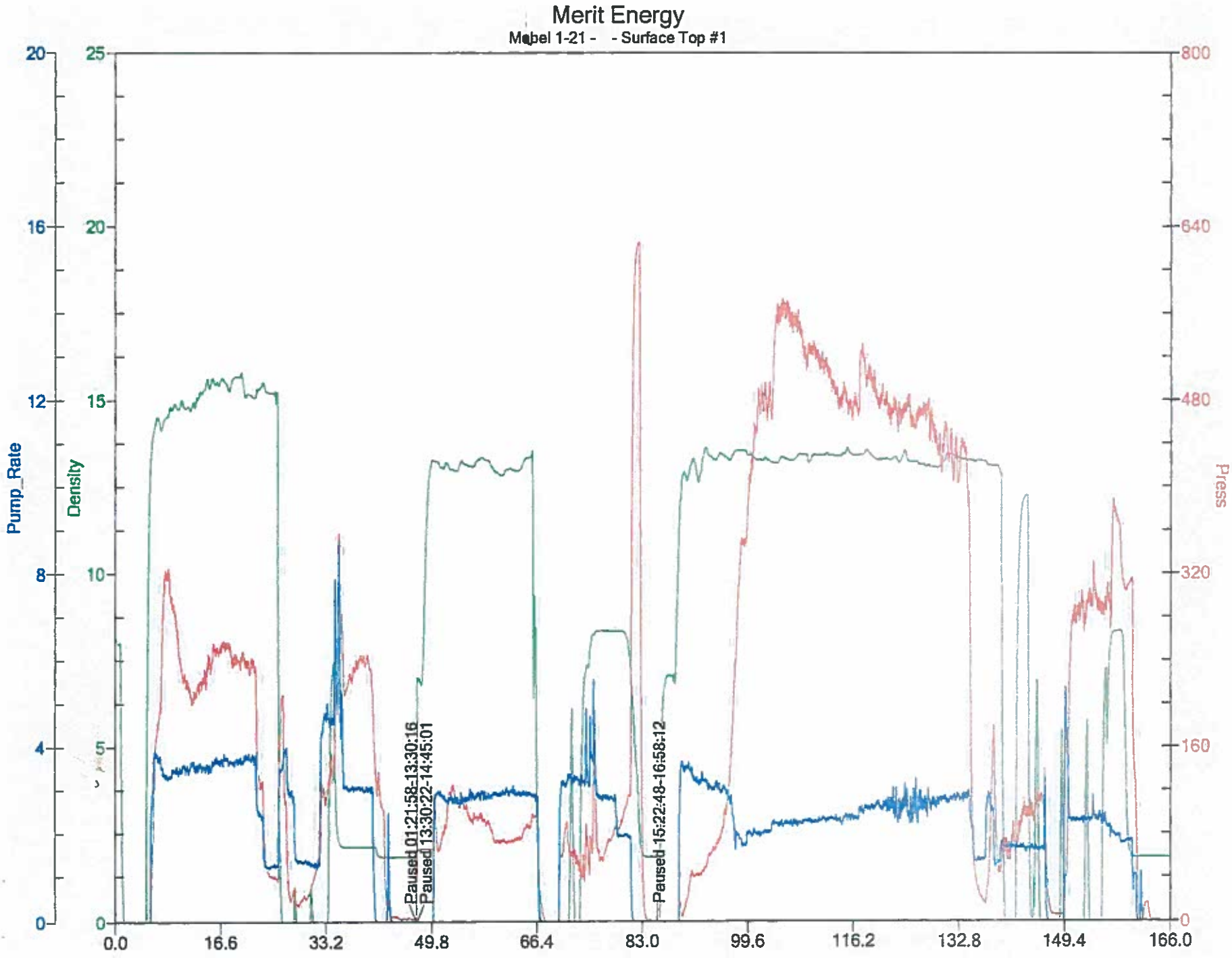
Job Number:	Lib1609160103	Job Purpose	01 Surface

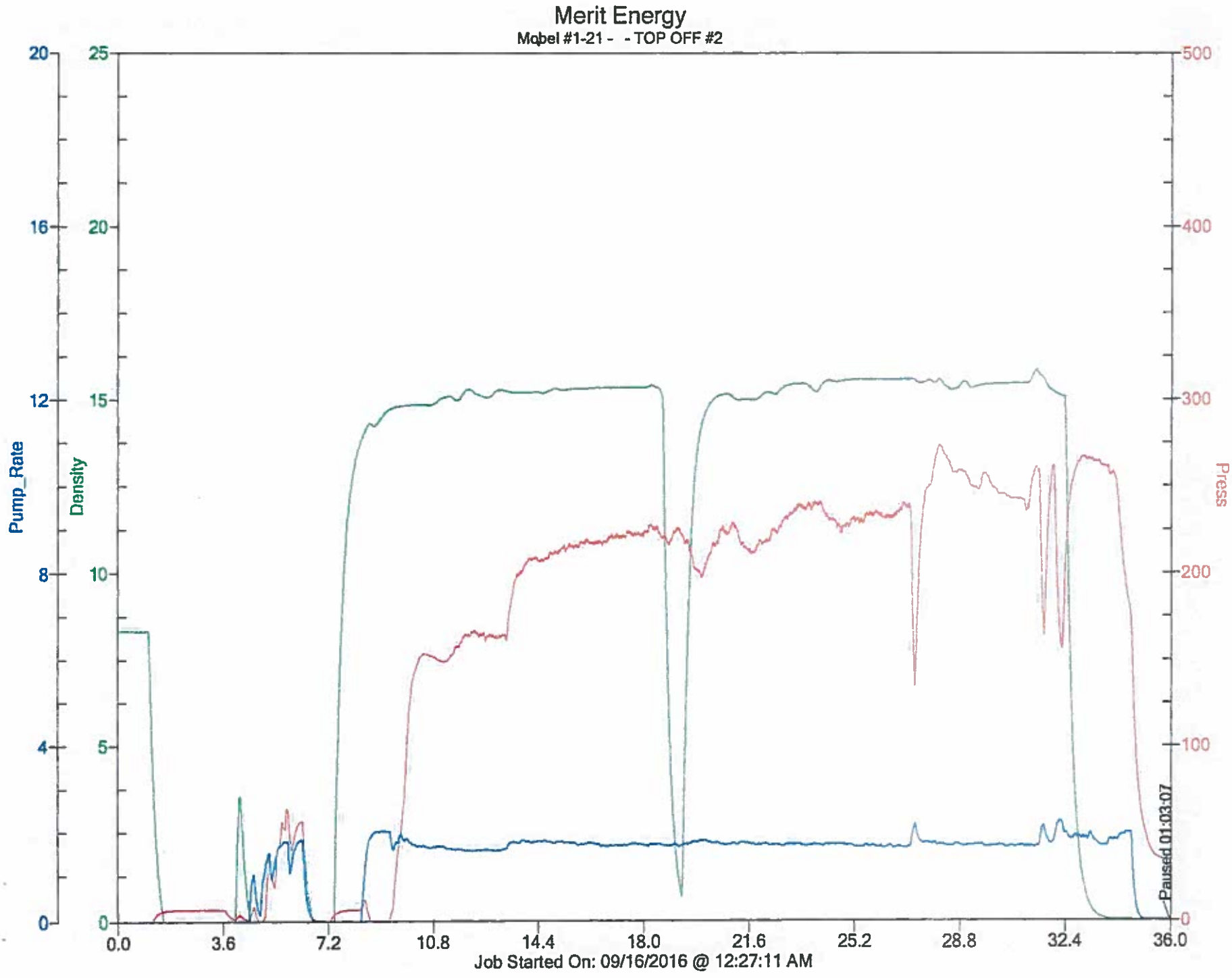
ALLIED OFS,LLC

Cement Job Summary

County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	0
Distance	50 miles (one way)			Supervisor	Lenny Baeza

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
9/15/2016					On location 12:00am
12:05am					Rigging up to well head
12:39am	240		26	3	Mixing 100sk of ASC @14.8#
12:47am	206		68	3	Mixing 200sk of Class H 2%CC on the side
1:01am	127		100	3	Washing inside casing and displacement of
1:21am	0		100	3	32 bbls 1/2bbls over displacement
					Waiting for cement to set waiting 6hrs
					and drilling rig going to try get returns
2:46pm	97		36	3	Mixing 100sk of ASC@13.0# and displace
					with 28.5bbls and dropping plug this time
3:18pm	600		65	3	Pumped 28.5 bbls of water and landed plug
					Called wire line to perf @335'
5:00pm	65		0	3	Mixing 270sk of cement mixing @13.0#
5:09pm	130-350		24	3	24bbls of cement gone and got pressure
5:41pm	458		98	3	270sk gone and can see fluid coming to
					30' from surface
5:43pm					Kept pumping rest of 130sk of cement by
					companyman request
5:59pm	0		146	3	End of cement and shutting down to release
					plug and pump 20 bbls of water for plug
					to be 20' from 335' where perf are
6:30pm					Waiting 5hr for cement to set and running
					temp survey
11:15pm					Temp survey shows cement is @70'
					Going to run Class A with 2%CC until
					it full
9/16/2016					
12:34am	160-273		42	2	Mixing Class A cement with 2%CC
					Mixing 200sk of cement, came to surface
					and holding
1:03am	0				Shut down and washing pumping and pulling
					1" pipe out of the hole
2:00am					Rigging down and leaving locatin @2:00am


Merit Energy
Mabel 1-21 - - Surface Top #1
Pump_Rate
Density
Press
20
16
12
8
4
0
25
20
15
10
5
0
800
640
480
320
160
0
0.0
16.6
33.2
49.8
66.4
83.0
99.6
116.2
132.8
149.4
166.0
Paused 01:21:58-13:30:16
Paused 13:30:22-14:45:01
Paused 15:22:48-16:58:12


Merit Energy
Mobel #1-21 - - TOP OFF #2
Pump_Rate
Density
Press
20
16
12
8
4
0
25
20
15
10
5
0
500
400
300
200
100
0
0.0
3.6
7.2
10.8
14.4
18.0
21.6
25.2
28.8
32.4
36.0
Paused 01:03:07
Job Started On: 09/16/2016 @ 12:27:11 AM

ALLIED OFS, LLC

CEMENT MIXING WATER GUIDELINES

Company Name: **MERIT ENERGY COMPANY**

Lease Name: Mabel # 1-21

County: Haskell State: KS

Water Source: TANK

Submitted By: Lenny Baeza Date: 9/15/2016

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	71	

COMMENTS

Customer Signature

Thank You

Customer:	MERIT ENERGY COMPANY
Date:	Thursday, September 15, 2016
Well Name:	Mabel # 1-21
Well Location:	Sublette
Supervisor:	Lenny Baeza

Equipment Operators: Lenny B. - Alex A - Cristian C. - Ramon E.

Performance	Customer	
Was the appearance of the personnel and equipment satisfactory?	Yes	No
Was the job performed in a professional manner?	Yes	No
Were the calculations prepared and explained properly?	Yes	No
Were the correct services dispatched to the job site?	Yes	No
Were the services performed as requested?	Yes	No
Did the job site environment remain unchanged?	Yes	No
Did the equipment perform in the manner expected?	Yes	No
Did the materials meet your expectations?	Yes	No
Was the crew prepared for the job?	Yes	No
Was the crew prompt in the rig-up and actual job?	Yes	No
Were reasonable recommendations given, as requested?	Yes	No
Did the crew perform safely?	Yes	No
Was the job performed to your satisfaction?	Yes	No
Customer Signature:  Date: 9/16/2016		
Additional Comments:		

ALLIED OFS, LLC

Cement Job Summary

Job Number:	Lib1609180851	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY			Date:	9/18/2016
Well Name:	Mabel		Number: 1-21	API/UWI:	
County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	
Legal Desc:				Rig Name:	
Distance	50 miles (one way)			Supervisor	Lenny Baeza

Employees:	*Emp. ID:*	*Employees:*	*Emp. ID:*
Cristian C		Lenny Baeza	
Monty Phillips			

Equipment:	
994-550	955-554

Well Information

Open Hole Section

Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)	
OPEN HOLE	12 1/4	100%	1264.98	1,585	TAIL CEMENT
OPEN HOLE	12 1/4	100%	489	1,265	LEAD CEMENT

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	489
TOTAL CASING	7	23	6.276	J-55	0	1,585
SHOE	7	23	6.276	J-55	1,545	1,585

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	380	12.10	2.56	14.86
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	1071.6	lbm
CLC-CPF	CELLOPHANE FLAKES	0.125	lb/sk	47.5	lbm
CFL-330	FLUID LOSS ADDITIVE - LOW DENSITY SLURRIES	0.47	% BWOC	178.6	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Tail 1	CLASS A COMMON	50	15.60	1.18	5.22
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 1	Displacement	59.11092898	8.33	n/a	n/a

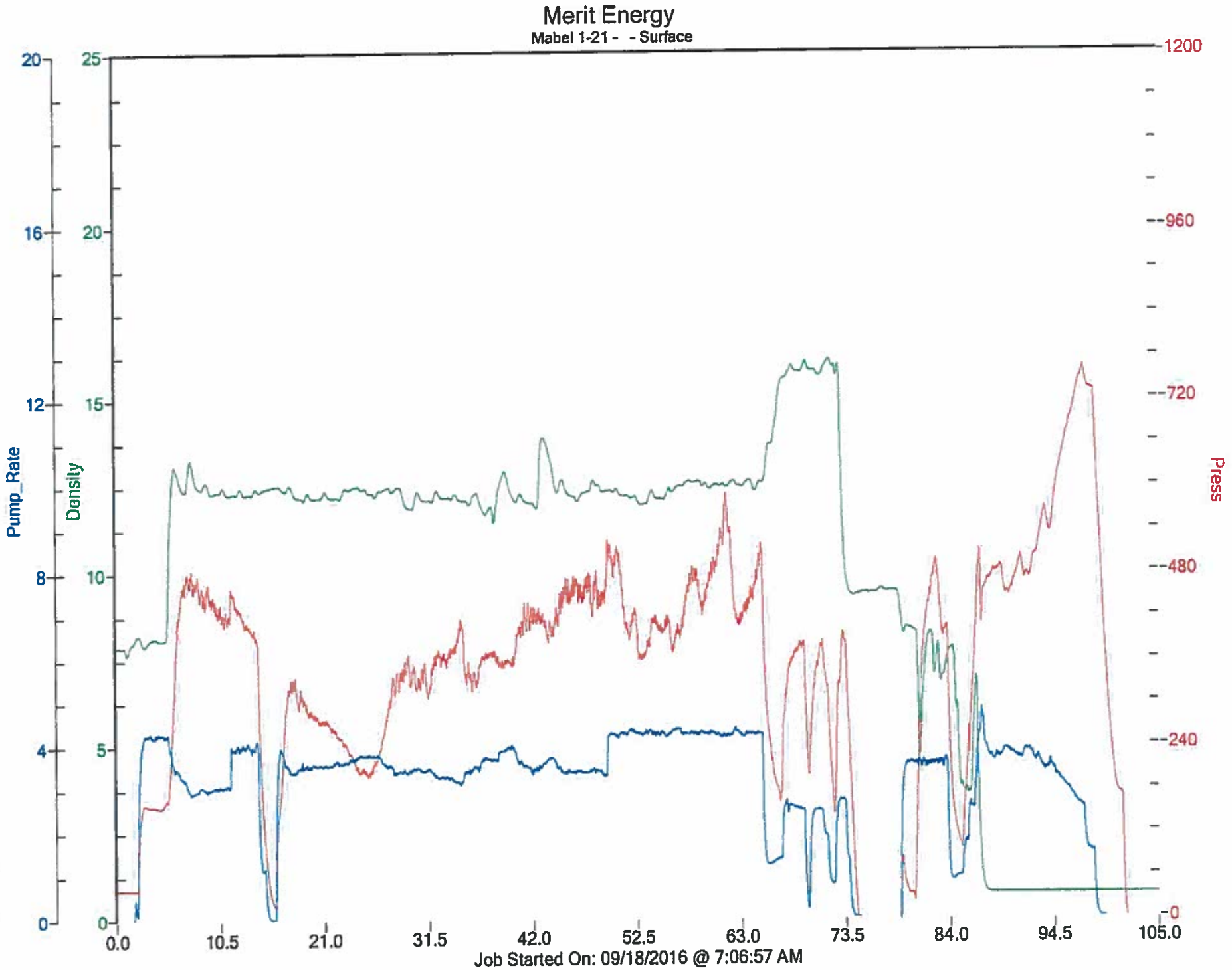
Job Number:	Lib1609180851	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY			Date:	9/18/2016
Well Name:	Mabel		Number: 1-21	API/UWI:	
County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	0
Distance	50 miles (one way)			Supervisor	Lenny Baeza

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
9/18/2016					On location @4:00am
6:30am					Rigging up to well head

ALLIED OFS, LLC

Cement Job Summary

6:45am					Safety meeting with rig crew
7:06am	480		10	4	Pumping 10bbls of water ahead
7:12am	440		183	4	Mixing 380sk of cement @12.1#
8:12am	350		193	3	Mixing 50sk of cement @15.6#
8:21am	0		193	0	Shut down to release plug
8:25am	120		193	4	Started displacment of 60bbls
8:31am	260		213	4	20 bbls gone
8:38am	480		233	4	40bbls gone
8:45am	720		253	3	60bbls gone and shutting in well there is no
					Insert float or sure seal collar to land plug
					left 40' of cement as shoe
					HAD NO RETURNS DURNING JOB
10:00am					Rigging up and leaveing location @10:00am
					GETTING WIRE LINE OUT HERE TO DO A
					TEMPERATURE SURVEY


Merit Energy
Mabel 1-21 - - Surface
Pump_Rate
Density
Press
20
16
12
8
4
0
25
20
15
10
5
0
1200
960
720
480
240
0
0.0
10.5
21.0
31.5
42.0
52.5
63.0
73.5
84.0
94.5
105.0
Job Started On: 09/18/2016 @ 7:06:57 AM

ALLIED OFS, LLC

CEMENT MIXING WATER GUIDELINES

Company Name: MERIT ENERGY COMPANY

Lease Name: Mabel # 1-21

County: Haskell

State: KS

Water Source: TANK

Submitted By: Lenny Baeza

Date: 9/18/2016

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	74	

COMMENTS

Customer Signature

Thank You

ALLIED OFS, LLC

Customer:	MERIT ENERGY COMPANY
Date:	Sunday, September 18, 2016
Well Name:	Mabel # 1-21
Well Location:	Sublette
Supervisor:	Lenny Baeza

Equipment Operators: Cristian C - Lenny Baeza

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

Customer Signature: [signature] Date: 9/18/2016

Additional Comments:

ALLIED OFS, LLC

Cement Job Summary

Job Number:	LIB1609190830	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY			Date:	9/19/2016
Well Name:	Mable	Number:	1-21	API/UWI:	
County:	Haskell	City:		State:	KS
Cust. Rep:		Phone:		Rig Phone:	
Legal Desc:				Rig Name:	Duke #9
Distance	50 miles (one way)			Supervisor	Aldo Espinosa

Employees:	*Emp. ID:*	*Employees:*	*Emp. ID:*
ALDO ESPINOZA			
GERARDO BURCIAGA			
JOSE CALDERON			

Equipment:	
984-	
1071-545	
956-841	

Well Information

Open Hole Section

Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)	
OPEN HOLE	12 1/4	100%	540	860	TAIL CEMENT
OPEN HOLE	12 1/4	100%	489	540	LEAD CEMENT
OPEN HOLE	12 1/4			489	
OPEN HOLE	12 1/4				

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	489
TOTAL CASING	7	23	6.276	J-55	0	860
SHOE	7	23	6.276	J-55	820	860

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	CLASS A COMMON	250	15.62	1.18	5.20
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	0	% BWOC	0.0	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Tail 1	CLASS A COMMON	250	15.61	1.19	5.22
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	1.88	% BWOC	470.0	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 1	Displacement	31.37319691	8.33	n/a	n/a

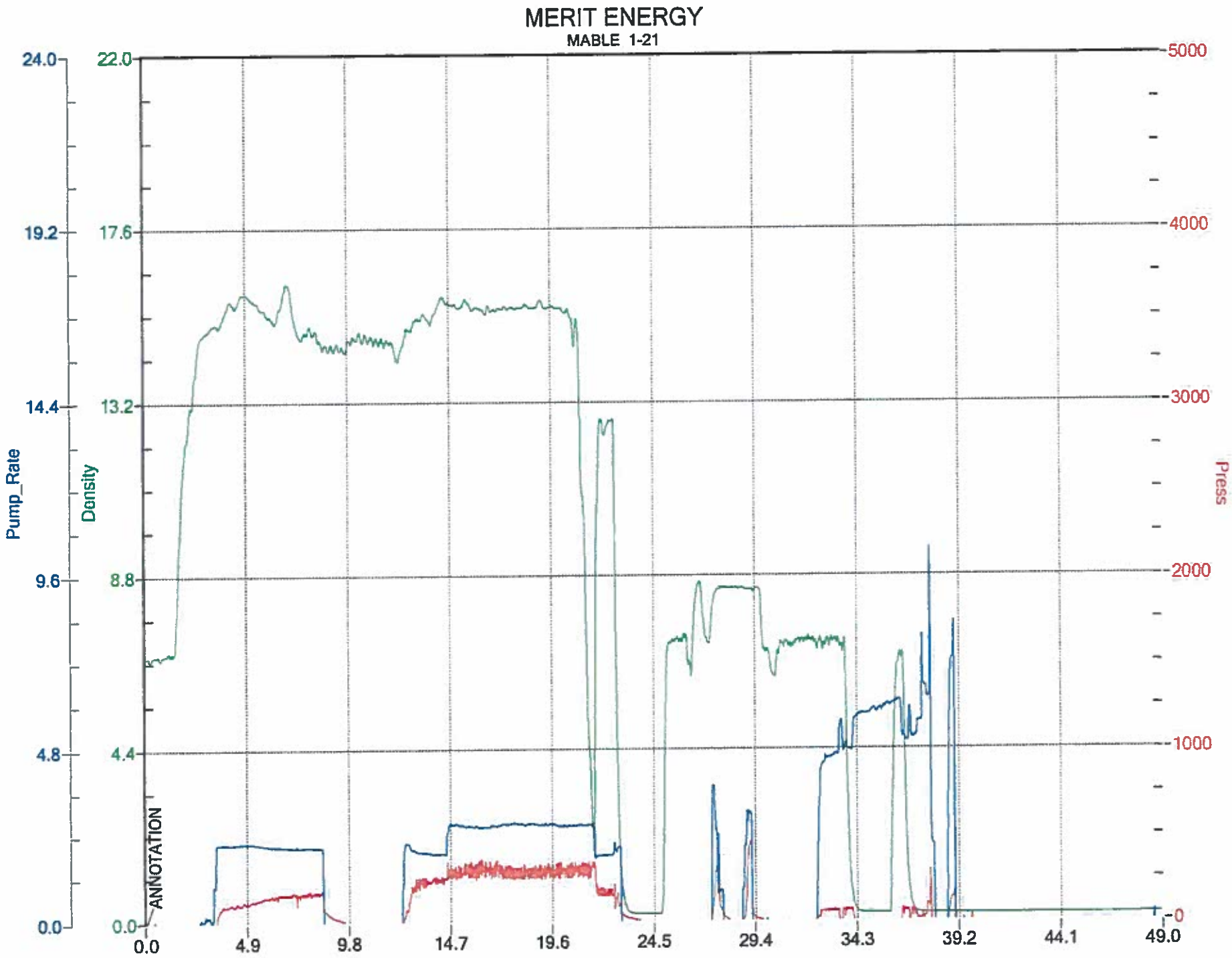
Job Number:	LIB1609190830	Job Purpose	01 Surface		
Customer:	MERIT ENERGY COMPANY			Date:	9/19/2016
Well Name:	Mable	Number:	1-21	API/UWI:	
County:	Haskell	City:		State:	KS
Cust. Rep:		Phone:		Rig Phone:	0
Distance	50 miles (one way)			Supervisor	Aldo Espinosa

TIME	PRESSURE - (PSI)	FLUID PUMPED DATA	COMMENTS

ALLIED OFS,LLC

Cement Job Summary

AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	COMMENTS
9/18/2016					DATE
645am					on location
725am					rig up
745am					safety meeting
					holes at 80 ft
800am	200			2.5	mix until get cement to surface
	250		34	2.5	mix 162sk/34 bbl slurry
	250		2.5	2	displace 2.5 bbl to leave 15 ft
	0				of cement inside
				3	wash pumping lines to pit
845am					rig down
930am					leave location
					first 80 sk at 3 % CC
					82 sk 2 %CC
					thanks


MERIT ENERGY
MABLE 1-21
Pump_Rate
Density
Press
ANNOTATION
24.0
19.2
14.4
9.6
4.8
0.0
22.0
17.6
13.2
8.8
4.4
0.0
5000
4000
3000
2000
1000
0
0.0
4.9
9.8
14.7
19.6
24.5
29.4
34.3
39.2
44.1
49.0

ALLIED OFS, LLC

CEMENT MIXING WATER GUIDELINES

Company Name: **MERIT ENERGY COMPANY**

Lease Name: **Mable # 1-21**

County: **Haskell** State: **KS**

Water Source: **TANK**

Submitted By: **Aldo Espinosa** Date: **9/19/2016**

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

ALLIED OFS, LLC

Customer:	MERIT ENERGY COMPANY
Date:	Monday, September 19, 2016
Well Name:	Mable # 1-21
Well Location:	
Supervisor:	Aldo Espinosa

Equipment Operators: ALDO ESPINOZA - GERARDO BURCIAGA - JOSE CALDERON

Performance	Customer	
Was the appearance of the personnel and equipment satisfactory?	Yes	No
Was the job performed in a professional manner?	Yes	No
Were the calculations prepared and explained properly?	Yes	No
Were the correct services dispatched to the job site?	Yes	No
Were the services performed as requested?	Yes	No
Did the job site environment remain unchanged?	Yes	No
Did the equipment perform in the manner expected?	Yes	No
Did the materials meet your expectations?	Yes	No
Was the crew prepared for the job?	Yes	No
Was the crew prompt in the rig-up and actual job?	Yes	No
Were reasonable recommendations given, as requested?	Yes	No
Did the crew perform safely?	Yes	No
Was the job performed to your satisfaction?	Yes	No
Customer Signature: Date: 9/19/2016		
Additional Comments:		

ALLIED OFS, LLC

Depend on US

Post Job Report

Merit Energy

Mabel 1-21
9/23/2016
4.5” Production Casing
Grant County, KS

Table of Contents:

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Mabel 1-21.

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

Allied 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 of 60/40/4 and then began pumping 12 bbls of HiVis Sweep spacer. We then mixed and pumped the following cements:

61.55 bbl	180 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 top plug was then released and displaced with 88.4 bbls of Fresh Water. Upon release the floats held.

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

Allied Oil & Gas 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.

ALLIED OFS, LLC

Cement Job Summary

Job Number: **Lib1609231856**	Job Purpose **02 Production/Long String**		
Customer: **MERIT ENERGY COMPANY**			Date: **9/23/2016**
Well Name: **Mabel**		Number: **1-21**	API/UWI:
County: **Haskell**	City:		State: **KS**
Cust. Rep:	Phone:	Rig Phone:	
Legal Desc:		Rig Name:	**Duke Drilling#9**
Distance **50 miles (one way)**		Supervisor: Hector Esqueda	

Employees:	*Emp. ID:*	*Employees:*	*Emp. ID:*
Hector E		Carlos I.	
Jose C.			

Equipment:	
903-541	870-744

Well Information					
Open Hole Section					
Description:	**Size (in):**	**Excess**	**Top MD (ft)**	**Btm MD (ft)**	
OPEN HOLE	6 1/8	30%	3000	5,780	TAIL CEMENT
OPEN HOLE	6 1/8			3,000	LEAD CEMENT
OPEN HOLE	6 1/8				
OPEN HOLE	6 1/8				

Tubulars						
Description:	**Size (in):**	**Wgt. (lb/ft)**	**ID (in)**	**Grade:**	**Top MD (ft)**	**Btm MD (ft)**
PREVIOUS CASING	7	23	6.276	J55	0	1,600
TOTAL CASING	4 1/2	13.5	3.92	J55	0	5,780
SHOE	4 1/2	13.5	3.92	J55	5,738	5,780

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 SPECIAL BLEND CEMENT - CLASS A	180	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	84.6	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	900.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	45.0	lbm
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 1	Displacement	85.64691632	8.33	n/a	n/a
STAGE #2					
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Stg 2 Tail 1	ALLIED 40/60/4 POZ BLEND - CLASS A	50	13.84	1.41	6.80
Addl. Additive	**Description**	**Conc. (lb/sk)**	**Determined by**	**Load Volume**	**UOM**

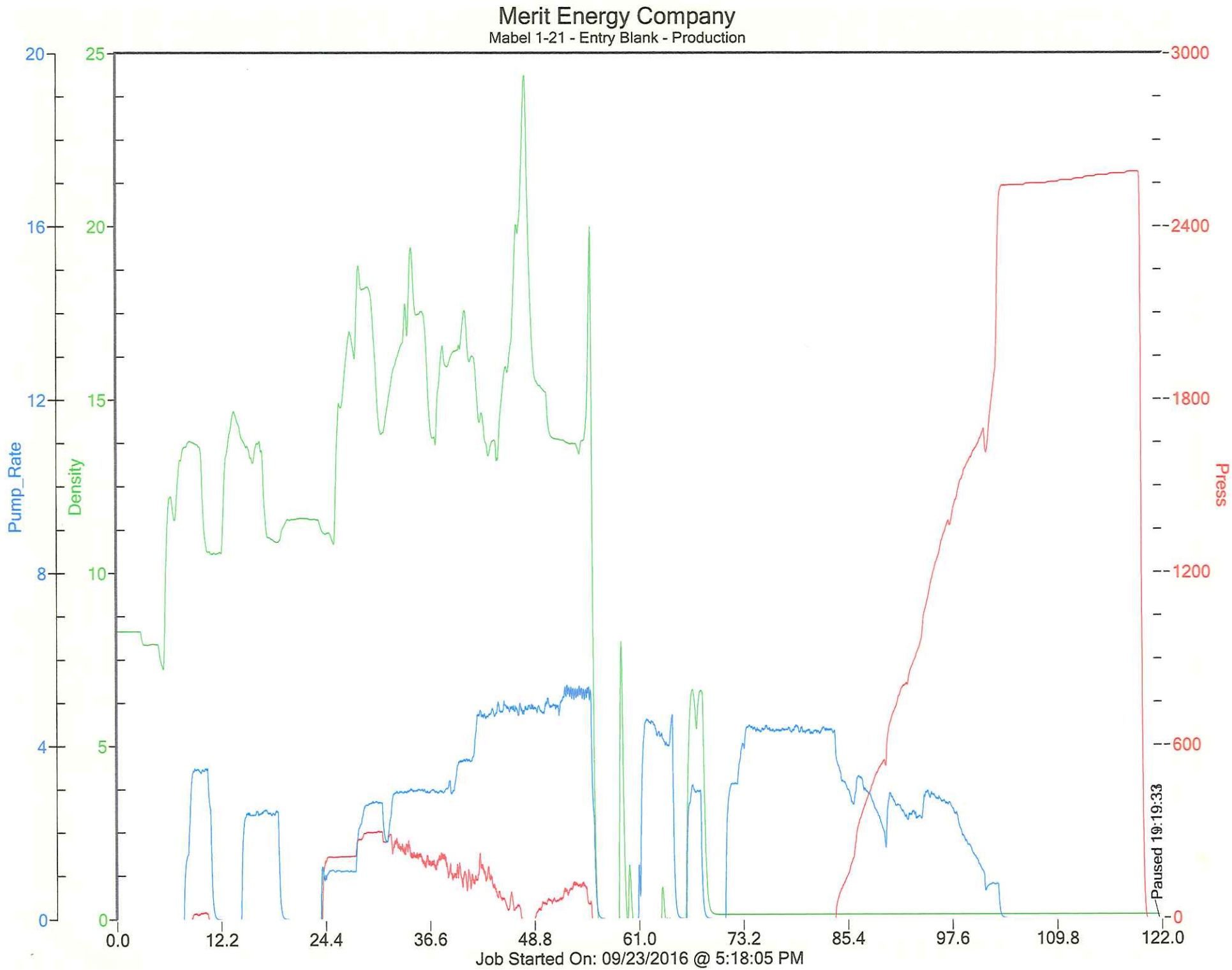
Job Number: **Lib1609231856**	Job Purpose **02 Production/Long String**		
Customer: **MERIT ENERGY COMPANY**			Date: 9/23/2016
Well Name: **Mabel**		Number: **1-21**	API/UWI:
County: **Haskell**	City:		State: **KS**

ALLIED OFS, LLC

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)	
14:00					Arrived to location
15:39					Rig up head
16:00					Rig up iron
16:10					prime up
16:45					start mixing 12bbls of FR on pump
17:19	0		5	1.5	start plugging mouse hole @13.84#
17:24					shut down switch over to Rat hole
17:27	0		7.5	2.4	start plugging rat hole @13.84#
17:32					shut down switch over to the manifold
17:37	220		12	2.0	start 12 bbl FR spacer
17:44	250		61	5	start tail cement @13.60#
18:09					shut down (drop plug) and wash up
					tub to the pit before displacing
18:24	0		88.4	4.5	Start the 88.4bbl of 4% KCL
					displacement
18:49	1350		80	2.6	80 bbls of displacement gone
					shut down and hold the plug for
					15 minutes to test the casing
19:11	0				released the pressure and the plug
					released from rig @ 20:30


Merit Energy Company
Mabel 1-21 - Entry Blank - Production
Pump_Rate
Density
Press
20
16
12
8
4
0
25
20
15
10
5
0
3000
2400
1800
1200
600
0
0.0
12.2
24.4
36.6
48.8
61.0
73.2
85.4
97.6
109.8
122.0
Paused 19:19:33
Job Started On: 09/23/2016 @ 5:18:05 PM

ALLIED OFS, LLC

Company Name: MERIT ENERGY COMPANY

Lease Name: Mabel # 1-21

County: Haskell State: KS

Water Source: TANK

Submitted By: Hector Esqueda Date: 9/23/2016

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

ALLIED OFS, LLC

Customer:	MERIT ENERGY COMPANY
Date:	Friday, September 23, 2016
Well Name:	Mabel # 1-21
Well Location:	
Supervisor:	Hector Esqueda

Equipment Operators: Hector E - Carlos I. - Jose C.

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

Customer Signature: Rodolfo Lopez Date: 9-23-16

Additional Comments:

Good Job.