



*Depend on US*

## Post Job Report

### **Merit Energy**

Mabel 1-21

9/14/2016-9/19/2016

8.625" Surface Casing

Haskell County, KS





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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:

<b>363.32</b>	<b>bbl</b>	<b>800</b>	<b>Sacks of 12.1 ppg</b>
<b>Class A Slurry -</b>		<b>2.55</b>	<b>Yield</b>

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

<b>39.58</b>	<b>bbl</b>	<b>175</b>	<b>Sacks of 15.2 ppg</b>
<b>Class A Slurry -</b>		<b>1.27</b>	<b>Yield</b>

- 2.0 % Calcium Chloride
- 0.25 lb Cellophane Flake

Job 2:

<b>26.36</b>	<b>bbl</b>	<b>100</b>	<b>Sacks of 14.8 ppg</b>
<b>Class A Slurry -</b>		<b>1.48</b>	<b>Yield</b>

- 6.0% Gypsum
- 2.0% Gel
- 10.0% Sodium Chloride

<b>42.39</b>	<b>bbl</b>	<b>200</b>	<b>Sacks of 15.6 ppg</b>
<b>Class H Slurry -</b>		<b>1.19</b>	<b>Yield</b>

- 2.0 % Calcium Chloride
- 0.25 lb Cellophane Flake



Merit Energy  
Mabel 1-21  
Haskell County, KS

<b>182.55 bbl</b>	<b>500 Sacks of 13.0 ppg</b>
<b>Class A Slurry -</b>	<b>2.05 Yield</b>

- 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:

<b>172.58 bbl</b>	<b>380 Sacks of 12.1 ppg</b>
<b>Class A Slurry -</b>	<b>2.55 Yield</b>

- 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.



Merit Energy  
Mabel 1-21  
Haskell County, KS

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.



### Cement Job Summary

Job Number:	Lib1609141546	Job Purpose	01 Surface
Customer:	MERIT ENERGY COMPANY	Date:	9/14/2016
Well Name:	Mabel	Number:	1-21
County:	Haskell	City:	Sublette
Cust. Rep:		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	

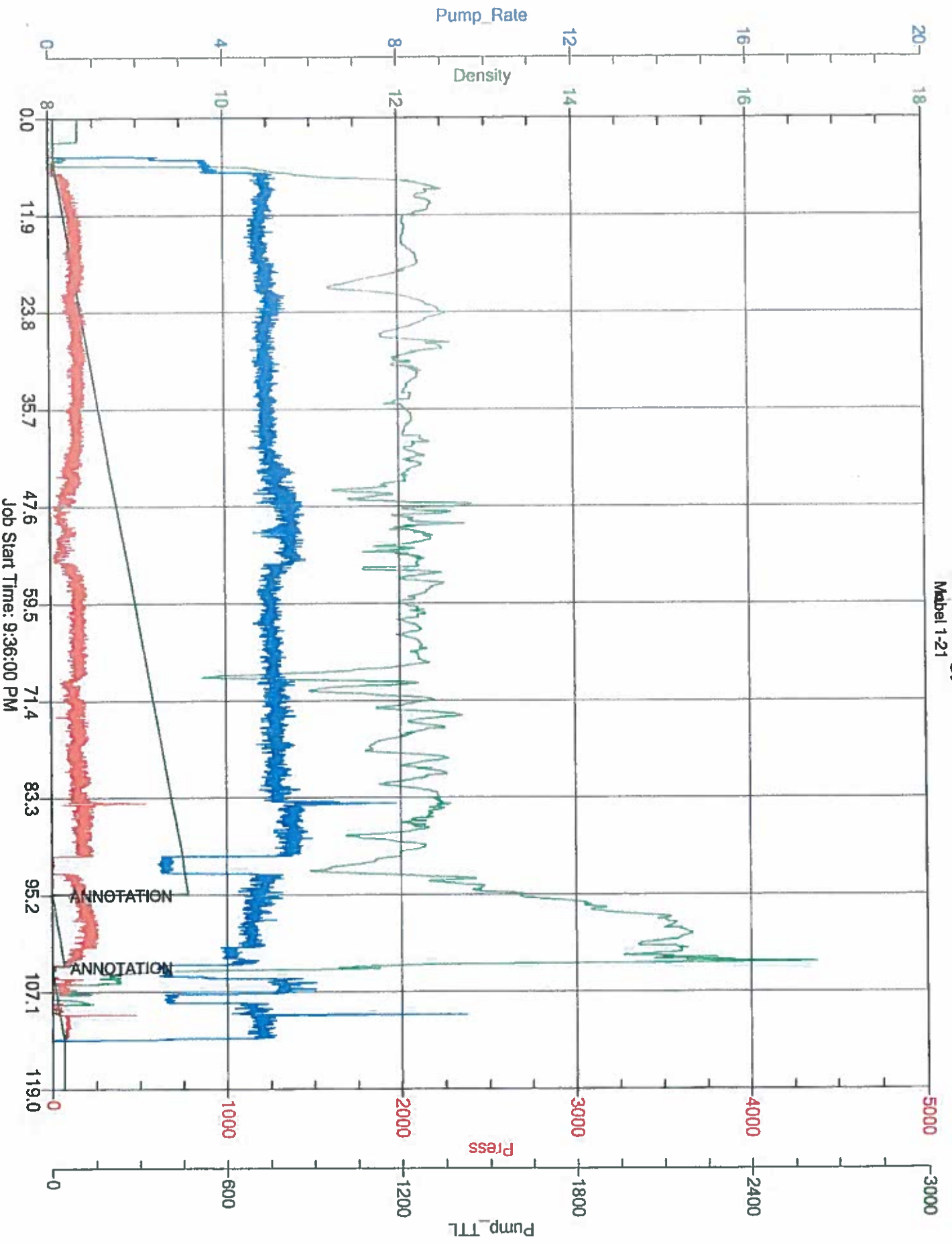
Job Number:	Lib1609141546	Job Purpose	01 Surface
Customer:	MERIT ENERGY COMPANY	Date:	9/14/2016
Well Name:	Mabel	Number:	1-21
County:	Haskell	City:	Sublette
Cust. Rep:		Phone:	
Legal Desc:		Rig Name:	
Distance	50 miles (one way)	Supervisor	Hector Esqueda





# Merit Energy

Mabel 1-21



Job Start Time: 9:36:00 PM





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

[Empty box for comments]

Thank You

Customer Signature





## Cement Job Summary

<b>Job Number:</b> 11b1609160103		<b>Job Purpose:</b> 01 Surface	
<b>Customer:</b> MERIT ENERGY COMPANY			<b>Date:</b> 9/16/2016
<b>Well Name:</b> Mobil		<b>Number:</b> 1-21	
<b>County:</b> Haskell		<b>City:</b> Sublette	
<b>Cust. Rep.:</b>		<b>State:</b> KS	
<b>Legal Desc.:</b>		<b>Rig Name:</b> Duke Drilling#9	
<b>Distance:</b> 50 miles (one way)		<b>Supervisor.:</b> Lenny Baeza	

Employees:	Emp. ID:	Employees:	Emp. ID:
Lenny B.		Alex A	
Cristian C.		Ramon E.	
<b>Equipment:</b>			
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	

<b>Job Number:</b> 11b1609160103	<b>Job Purpose:</b> 01 Surface
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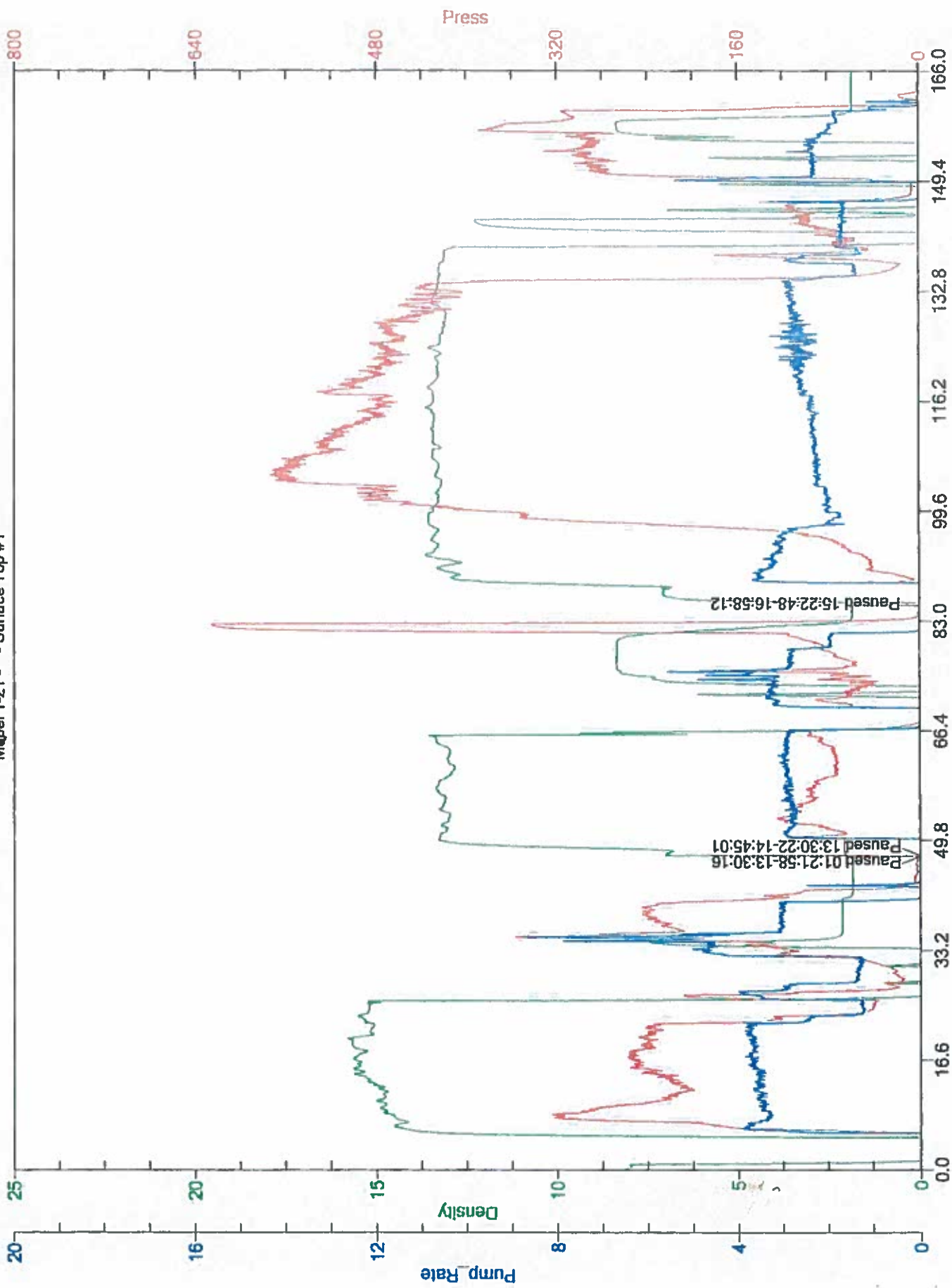


### Cement Job Summary

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

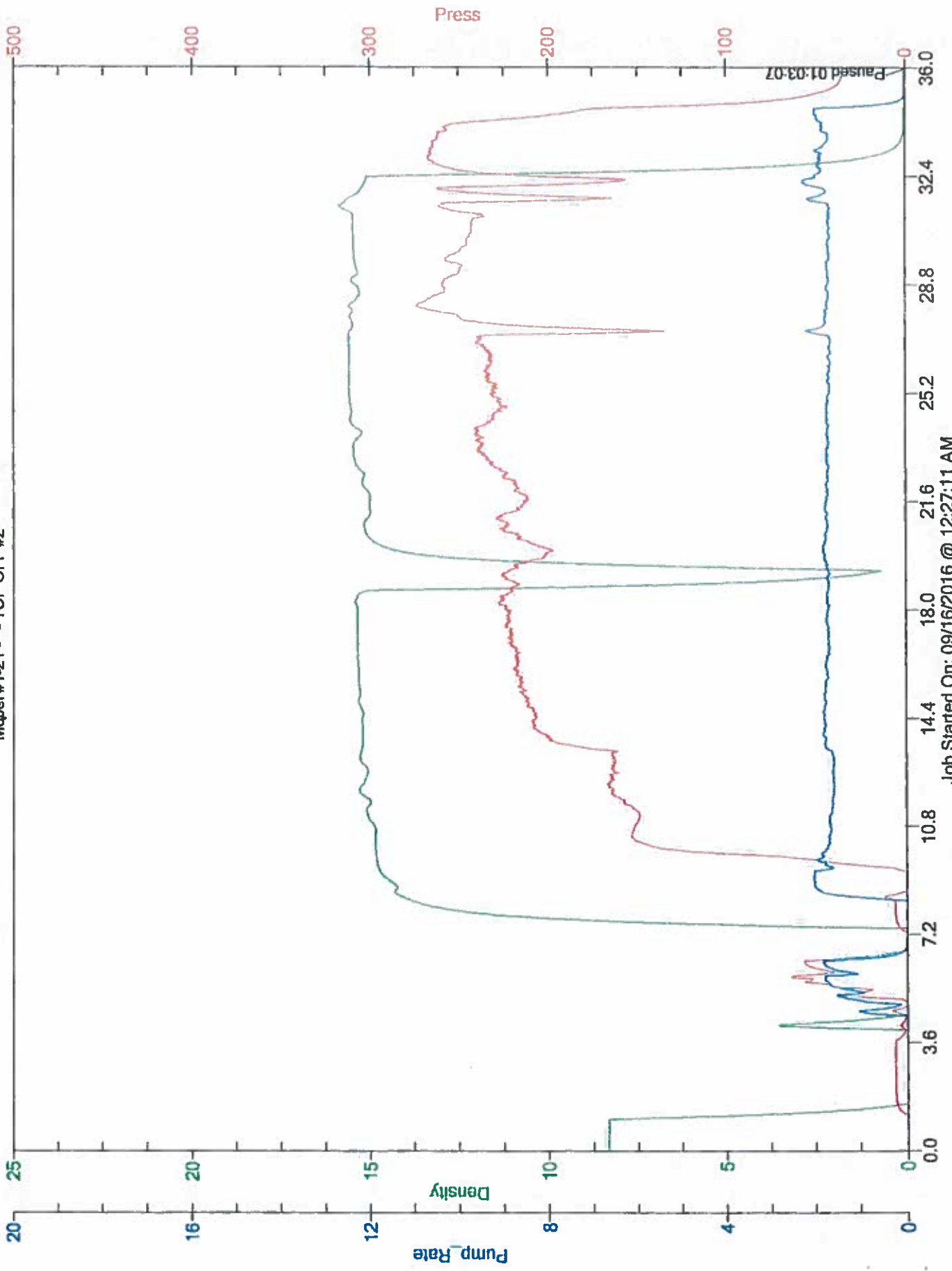
# Merit Energy

Mebel 1-21 - Surface Top #1



# Merit Energy

Mqbel #1-21 - - TOP OFF #2



Job Started On: 09/16/2016 @ 12:27:11 AM





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

[Empty rectangular box for comments]

Thank You

Customer Signature

[Handwritten Signature]



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

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

Performance

Customer

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

Customer Signature: 

Date: 9/16/2016

Additional Comments:

Empty lines for additional comments.



### 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

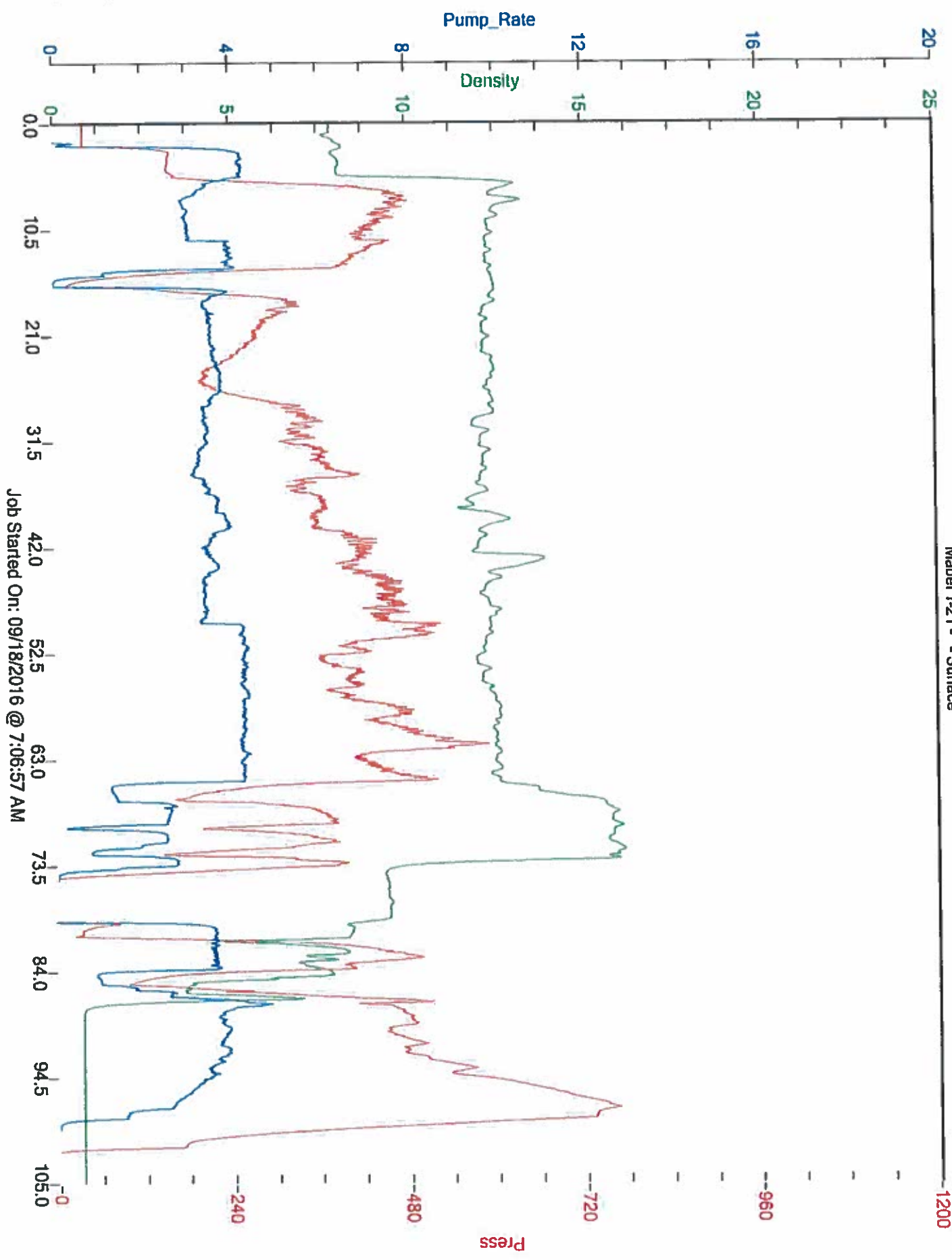
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	CASING	ANNULUS	VOLUME	RATE (BPM)	
9/18/2016					On location @4:00am
6:30am					Rigging up to well head



**Cement Job Summary**

6:45am					Safety meeting w/ 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



Job Started On: 09/18/2016 @ 7:06:57 AM



CEMENT MIXING WATER GUIDELINES

Company Name: MERIT ENERGY COMPANY

Lease Name: Label # 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

[Empty rectangular box for comments]

Thank You

Customer Signature







## Cement Job Summary

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

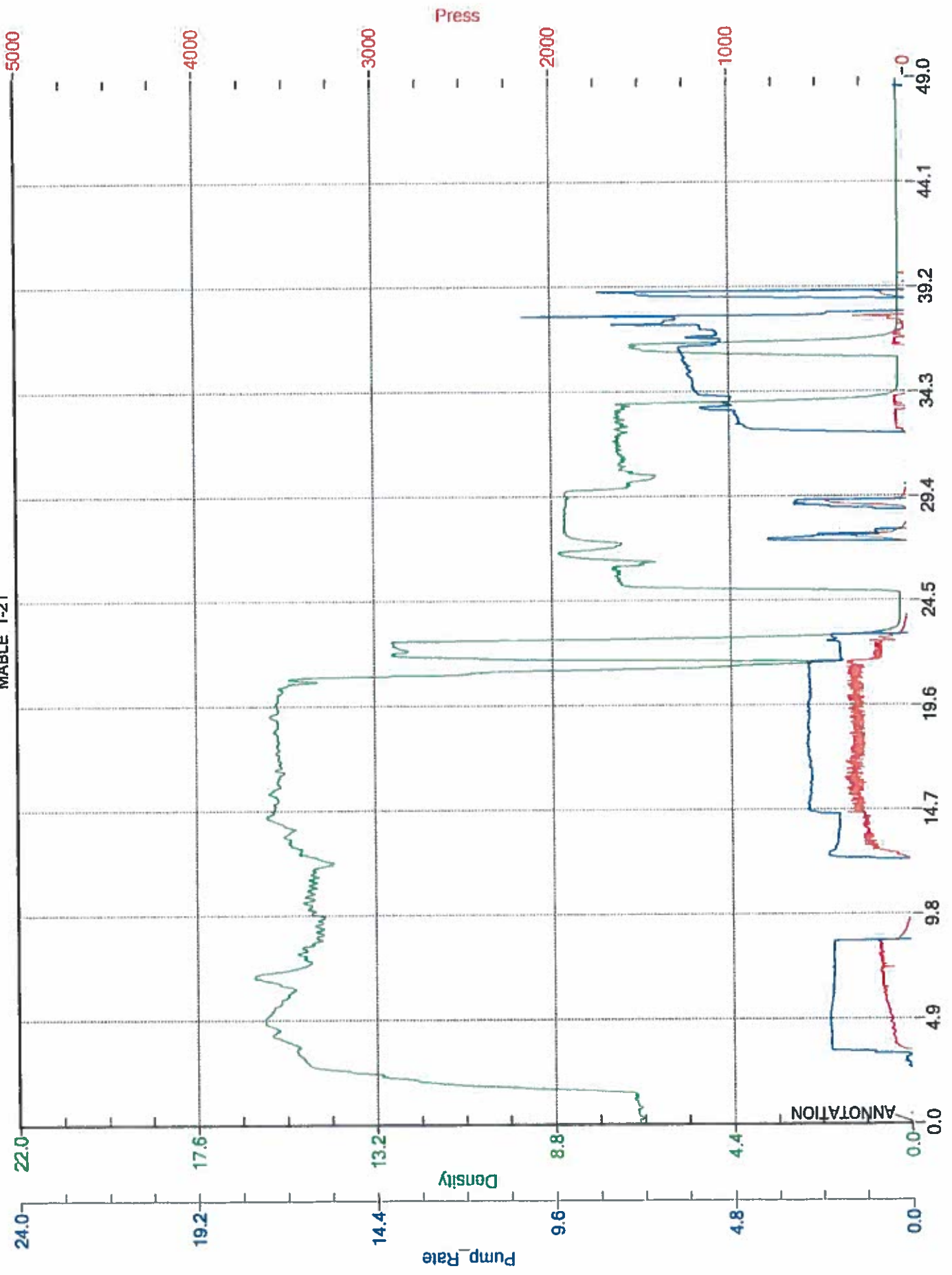


**Cement Job Summary**

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





**CEMENT MIXING WATER GUIDELINES**

Company Name:

**MERIT ENERGY COMPANY**

Lease Name:

**Mable # 1-21**

County

State

**Haskell**

**KS**

Water Source:

**TANK**

Submitted By:

Date:

**Aldo Espinosa**

**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**

Thank You

Customer Signature \_\_\_\_\_

