ALLIED
OIL & GAS SERVICES, LLC

Depend on US

Post Job Report

Merit Energy

GCCU 702W
3/27/2015
5.5” 2-Stage Production Casing
Haskell 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 GCCU 702W intermediate casing.

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 3000 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:

18.64 bbl	65 Sacks of 13.6 ppg
50/50 H Slurry:	1.61 Yield

10.0%	Salt
5.0%	Gypsum
2.0%	Gel
0.5%	CFL-210
5.0 lb	Kol-Seal
0.25 lb	Cellophane Flake
0.2%	CD-100

2nd Stage:

54.71 bbl	160 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 35 bbl fresh water and 94 Bbls of WBM. The plug bumped and was pressured to 890 psi. Upon release the floats held. The stage tool was opened at 820 psi and the rig circulated 4 hours. These second stage was displaced with 118 bbl fresh water. The plug bumped and was pressured to 1590.

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 OIL & GAS SERVICES, LLC

Cement Job Summary

Job Number:	LIB1603271033	Job Purpose	02 Production/Long String		
Customer:	MERIT ENERGY COMPANY			Date:	3/27/2016
Well Name:	GCCU	Number:	#702W	API/UWI:	
County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	
Distance	50 miles (one way)			Supervisor	Edgar Rodriguez

Employees:	*Emp. ID:*	*Employees:*	*Emp. ID:*
Edgar Rodriguez	#N/A		
Aldo Espinoza	#N/A		
Jose Calderon	#N/A		

Equipment:		
1039		
531		541
993		1066

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	65	13.60	1.61	7.37
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 1	Displacement	137	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
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Stg 2 Lead 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	50	13.60	1.92	9.56
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Stg 2 Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	160	13.60	1.92	9.56
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Stg 2 Disp. 1	Displacement	137	8.33	n/a	n/a

Slurry: Tail 1 **Slurry Name:** ALLIED 50/50 POZ BLEND - CLASS H

Quantity:	65 sacks	**Blend Vol:**	85.35 cu.ft.	cu.ft.	**Blend Weight:**	6620.71865 lbs
Material	Description		Conc. (lb/sk)	Determined by	Load Volume	UOM
CCHP	CLASS H PREMIUM		47	% Base Materia	3055.0	lbm
CPOZ	POZMIX FLYASH		37	% Base Materia	2405.0	lbm
CGEL	GEL - BENTONITE		1.68	% BWOC	109.2	lbm
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP		0.42	% BWOC	27.3	lbm
CLC-KOL	KOL-SEAL		5	lb/sk	325.0	lbm
CLC-CPF	CELLOPHANE FLAKES		0.25	lb/sk	16.3	lbm
CA-200	SODIUM CHLORIDE		6.13921	% BWOW	399.0	lbm
CA-500	GYPSUM		4.2	% BWOC	273.0	lbm
CD-100	CEMENT DISPERSANT		0.168	% BWOC	10.9	lbm
Water	Mixing Water		7.37	gal/sk	479.1	gal

Slurry: Stg 2 Lead 1 **Slurry Name:** ALLIED SPECIAL BLEND CEMENT - CLASS A

Quantity:	50 sacks	**Blend Vol:**	68.68 cu.ft.		**Blend Weight:**	5756.5827 lbs
Material	Description		Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMMON		94	% Base Materia	4700.0	lbm
CA-200	SODIUM CHLORIDE		7.96348	% BWOW	398.2	lbm
CA-500	GYPSUM		5.64	% BWOC	282.0	lbm
CGEL	GEL - BENTONITE		1.88	% BWOC	94.0	lbm
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP		0.398174	% BWOW	19.9	lbm
CLC-KOL	KOL-SEAL		5	lb/sk	250.0	lbm
CLC-CPF	CELLOPHANE FLAKES		0.25	lb/sk	12.5	lbm
Water	Mixing Water		9.56	gal/sk	478	gal

Slurry: Stg 2 Tail 1 **Slurry Name:** ALLIED SPECIAL BLEND CEMENT - CLASS A

Quantity:	160 sacks	**Blend Vol:**	065807889966 cu.ft.		**Blend Weight:**	18432.5568 lbs
Material	Description		Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMMON		94	% Base Materia	15040.0	lbm
CA-200	SODIUM CHLORIDE		7.96348	% BWOW	1274.2	lbm
CA-500	GYPSUM		5.64	% BWOC	902.4	lbm
CGEL	GEL - BENTONITE		1.88	% BWOC	300.8	lbm
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP		0.47	% BWOC	75.2	lbm
CLC-KOL	KOL-SEAL		5	lb/sk	800.0	lbm
CLC-CPF	CELLOPHANE FLAKES		0.25	lb/sk	40.0	lbm
Water	Mixing Water		9.56	gal/sk	1529.6	gal

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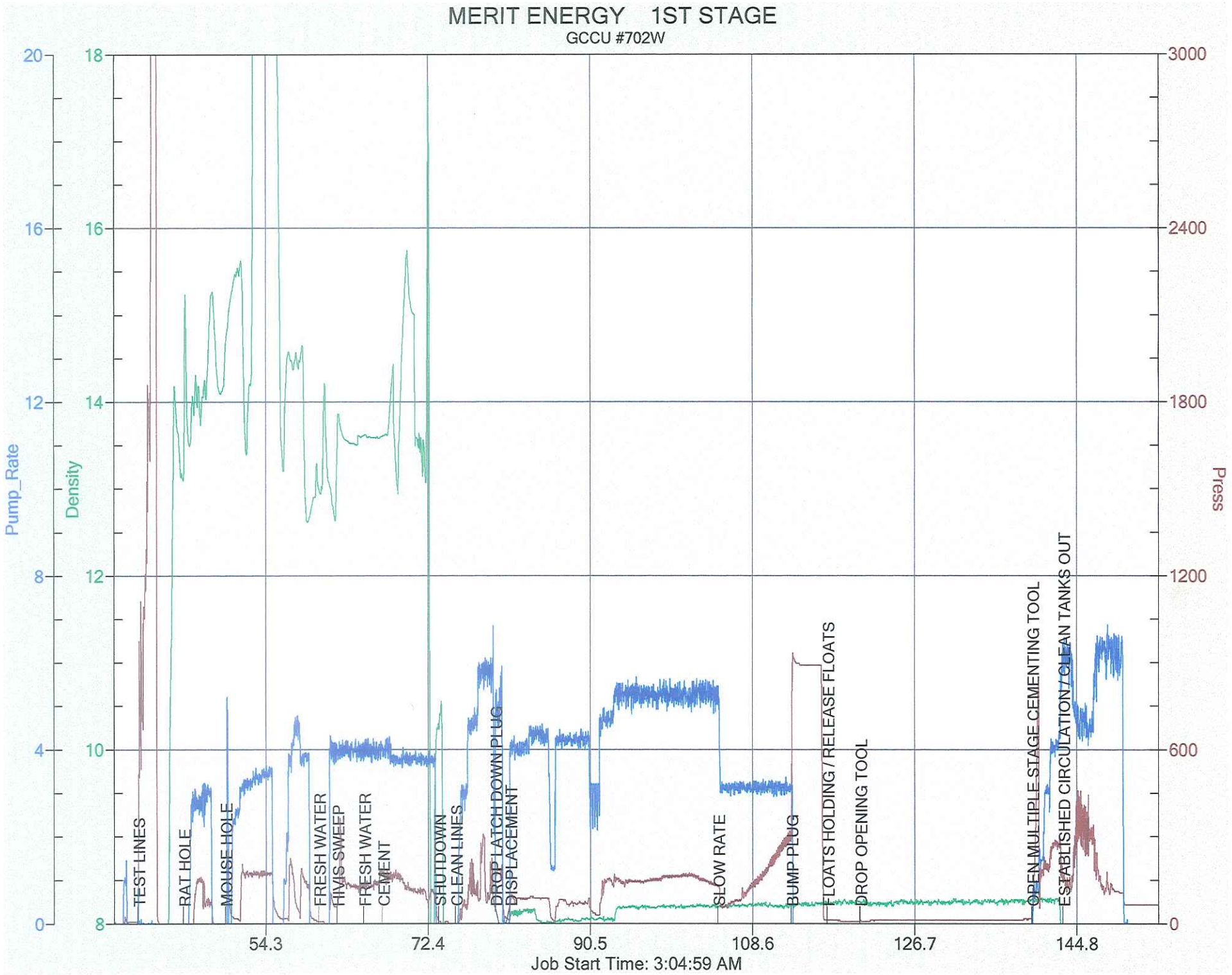
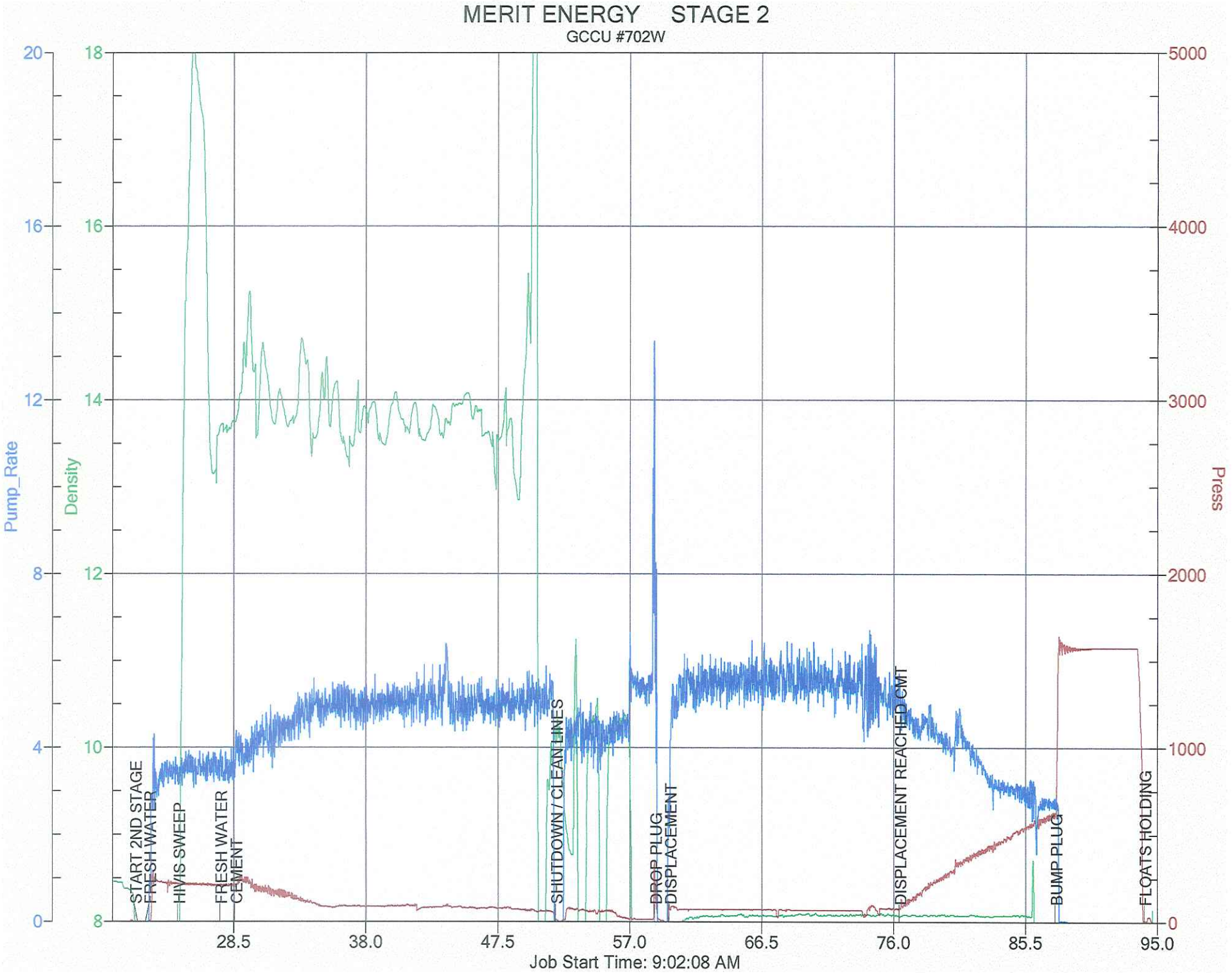
Cement Job Summary

Job Number:	LIB1603271033	Job Purpose	02 Production/Long String		
Customer:	MERIT ENERGY COMPANY			Date:	3/27/2016
Well Name:	GCCU	Number:	#702W	API/UWI:	
County:	Haskell	City:	Sublette	State:	KS
Cust. Rep:		Phone:		Rig Phone:	0
Distance	50 miles (one way)			Supervisor	Edgar Rodriguez

DATE	TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
3/26/2016	8:20:00 PM					ARRIVE TO LOCATION
3/26/2016	8:20:00 PM					RIG NIPPLING DOWN BOP / RIGGING DOWN KELLY LINE
3/26/2016	9:00:00 PM					SPOT EQUIPMENT / RIG UP GROUND
3/26/2016	10:20:00 PM					RIG RUNNING CASING
3/27/2016	2:10:00 AM					CASING ON BOTTOM
3/27/2016	2:15:00 AM					STAB CMT HEAD AND RIG UP FLOOR TO CIRCULATE
3/27/2016	2:45:00 AM					CASING CREW OUT OF WAY / RIG UP GROUND
3/27/2016	3:30:00 AM					PRE-JOB SAFETY MEETING
3/27/2016	3:43:00 AM					TEST LINES
3/27/2016	3:52:00 AM	40		17	2	PLUG RAT & MOUSE HOLE WITH 50 SKS OF CMT
3/27/2016	4:04:00 AM	130		3	4	3 BBLS OF WATER
3/27/2016	4:05:00 AM	130		12	4	12 BBLS OF HIVIS SWEEP
3/27/2016	4:09:00 AM	130		3	4	3 BBLS OF WATER
3/27/2016	4:10:00 AM	190		19	4	65 SKS OF CMT (19 BBLS @13.6)
3/27/2016	4:16:00 AM					SHUTDOWN / CLEAN LINES / DROP LATCH DOWN PLUG
3/27/2016	4:25:00 AM	70			5	START WITH 35 BBLS OF FRESH WATER AT 5 BPM
3/27/2016	4:33:00 AM	70		35	5	START WITH 94 BBLS OF WBM AT 5 BPM / FOR 129 BBLS TOTAL DISP.
3/27/2016	4:36:00 AM	160		42	5	DISP. REACHED CMT AT 42 BBLS GONE
3/27/2016	4:49:00 AM	170		110	3	PLUG PASSING THRU DV TOOL / SLOW RATE TO 3 BPM
3/27/2016	4:52:00 AM	170		118	3	NO SIGNIFICANT SHEAR PRESSURE / CONTINUE DISP. AT 3 BPM
3/27/2016	4:57:00 AM	330		129	3	BUMP PLUG WITH 330 PSI AND TOOK OVER TO 890 PSI AT 129 BBLS
3/27/2016	5:00:00 AM					FLOATS HOLDING FOR 3 MINUTES / 1/4 BBL BACK
3/27/2016	5:03:00 AM					DROP MULTIPLE STAGE CEMENTING OPENING TOOL
3/27/2016	5:03:00 AM					WAIT 20 MINUTES FOR TOOL TO FALL
3/27/2016	5:23:00 AM	820		1	2	OPEN MULTIPLE STAGE CEMENTING DV TOOL WITH 820 PSI
3/27/2016	5:35:00 AM					CIRCULATION ESTABLISHED / CLEAN TANKS OUT
3/27/2016	5:45:00 AM					1ST STAGE COMPLETE / TURN OVER TO RIG TO CIRCULATE FOR 4 HRS
3/27/2016	9:30:00 AM					2ND STAGE
3/27/2016	9:22:00 AM	220		3	3.5	3 BBLS OF WATER
3/27/2016	9:23:00 AM	215		12	3.5	12 BBLS OF HIVIS SWEEP
3/27/2016	9:27:00 AM	205		3	3.5	3 BBLS OF WATER
3/27/2016	9:28:00 AM	100		55	4.5	160 SKS OF CMT (55 BBLS @13.6)
3/27/2016	9:52:00 AM					SHUTDOWN / CLEAN LINES / DROP CLOSING PLUG
3/27/2016	9:59:00 AM	70			5.5	118 BBLS DISPLACEMENT AT 5.5 BPM
3/27/2016	10:17:00 AM	110		78	5.5	DISP. REACHED CMT AT 78 BBLS GONE
3/27/2016	10:24:00 AM	460		105	3	SLOW RATE TO 3 BPM TO BUMP PLUG
3/27/2016	10:28:00 AM	630		118	3	BUMP PLUG WITH 630 PSI AND TOOK UP TO 1590 PSI
3/27/2016	10:33:00 AM					FLOATS HOLDING FOR 5 MINUTES / 1/4 BBL BACK
3/27/2016	10:33:00 AM					END JOB / FULL CIRCULATION BOTH STAGES
3/27/2016	10:40:00 AM					RIG DOWN EQUIPMENT
3/27/2016	11:30:00 AM					CREW LEAVE LOCATION


MERIT ENERGY 1ST STAGE
GCCU #702W
Pump_Rate
Density
Press
20
16
12
8
4
0
18
16
14
12
10
8
3000
2400
1800
1200
600
0
TEST LINES
RAT HOLE
MOUSE HOLE
FRESH WATER
HVIS SWEEP
FRESH WATER
CEMENT
SHUTDOWN
CLEAN LINES
DROP LATCH DOWN PLUG
DISPLACEMENT
SLOW RATE
BUMP PLUG
FLOATS HOLDING / RELEASE FLOATS
DROP OPENING TOOL
OPEN MULTIPLE STAGE CEMENTING TOOL
ESTABLISHED CIRCULATION / CLEAN TANKS OUT
54.3
72.4
90.5
108.6
126.7
144.8
Job Start Time: 3:04:59 AM


MERIT ENERGY STAGE 2
GCCU #702W
Pump_Rate
Density
Press
20
16
12
8
4
0
18
16
14
12
10
8
5000
4000
3000
2000
1000
0
START 2ND STAGE
FRESH WATER
HIVIS SWEEP
FRESH WATER
CEMENT
SHUTDOWN / CLEAN LINES
DROP PLUG
DISPLACEMENT
DISPLACEMENT REACHED CMT
BUMP PLUG
FLOATS HOLDING
28.5
38.0
47.5
57.0
66.5
76.0
85.5
95.0
Job Start Time: 9:02:08 AM

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CEMENT MIXING WATER GUIDELINES

Company Name: **MERIT ENERGY COMPANY**

Lease Name: **GCCU # #702W**

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

Water Source: **TANK**

Submitted By: **Edgar Rodriguez** Date: **3/27/2016**

pH Level	7	Must be less than 8.5
Sulfates	200	Must be less than 1,000 PPM
Chlorides	700	Must be less than 3,000 PPM
Temperature	65	Must be less than 100 deg F

COMMENTS

Customer Signature

Thank You

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Customer:	MERIT ENERGY COMPANY
Date:	Sunday, March 27, 2016
Well Name:	GCCU # #702W
Well Location:	Sublette
Supervisor:	Edgar Rodriguez

Equipment Operators: Edgar Rodriguez - Aldo Espinoza - 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: Rodney Lozada Date: 3-27-16

Additional Comments:

Good Job.