

HALLIBURTON

iCem[®] Service

Laramie Energy LLC

United States of America, COLORADO

For: Aaron Duncan

Date: Friday, June 21, 2019

CC Federal 0697-04-02E Surface PJR

API# 05-045-23989-00

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

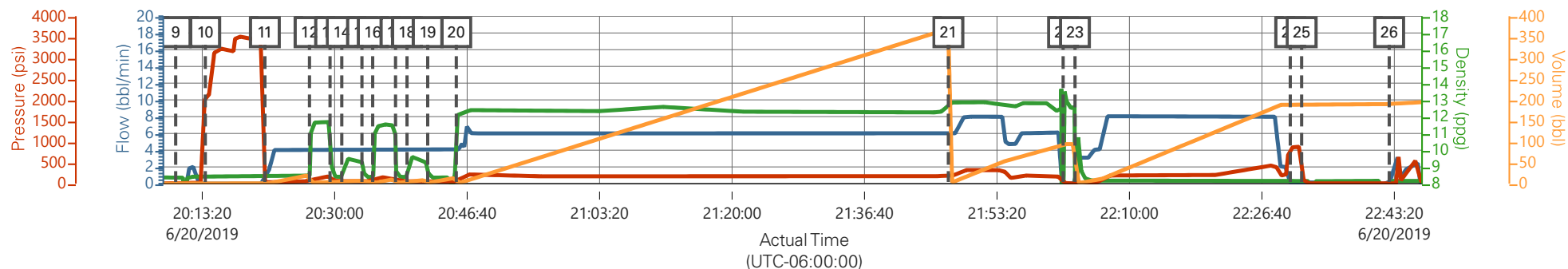
2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	6/20/2019	11:30:00	USER					REQUESTED ON LOCATION 6/20/19 @ 19:00
Event	2	Depart Yard Safety Meeting	6/20/2019	13:55:00	USER					JSA COMPLETED
Event	3	Crew Leave Shop	6/20/2019	14:00:00	USER					
Event	4	Arrive At Loc	6/20/2019	17:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	6/20/2019	17:05:00	USER					JSA COMPLETED
Event	6	Pre-Rig Up Safety Meeting	6/20/2019	17:10:00	USER					JSA COMPLETED
Event	7	Rig-Up Equipment	6/20/2019	17:15:00	USER					
Event	8	Pre-Job Safety Meeting	6/20/2019	19:30:00	USER					JSA COMPLETED, PRESSURIZED MUD SCALES CALIBRATED TO FRESH WATER
Event	9	Start Job	6/20/2019	20:10:00	COM4					9 5/8"-36# CASING IN 14 3/4" OH, TD 2609', TP 2599', ST 46.6', MUD 8.6 PPG, WATER TEMP 50, PH 7, CHLORIDES 0
Event	10	Test Lines	6/20/2019	20:13:43	COM4			3000.00		TEST LINES TO 3000 PSI
Event	11	Pump FRESH WATER	6/20/2019	20:21:13	COM4	4.00	8.33	55.00	20.00	20 BBLS FRESH WATER
Event	12	Pump SUPERFLUSH	6/20/2019	20:26:50	COM4	4.00	10.50	170.00	10.00	10 BBLS SUPERFLUSH
Event	13	Pump FRESH WATER	6/20/2019	20:29:25	COM4	4.00	8.33	55.00	5.00	5 BBLS FRESH WATER
Event	14	Pump CaCl WATER	6/20/2019	20:30:54	COM4	4.00	9.0	60.00	10.00	10 BBLS CaCl WATER

Event	15	Pump FRESH WATER	6/20/2019	20:33:26	COM4	4.00	8.33	55.00	5.00	5 BBLS FRESH WATER
Event	16	Pump SUPERFLUSH	6/20/2019	20:34:47	COM4	4.00	10.50	170.00	10.00	10 BBLS SUPERFLUSH
Event	17	Pump FRESH WATER	6/20/2019	20:37:39	COM4	4.00	8.33	55.00	5.00	5 BBLS FRESH WATER
Event	18	Pump CaCl WATER	6/20/2019	20:39:06	COM4	4.00	9.0	60.00	10.00	10 BBLS CaCl WATER
Event	19	Pump FRESH WATER	6/20/2019	20:41:42	COM4	4.00	8.33	55.00	10.00	10 BBLS FRESH WATER
Event	20	Pump Lead Cement	6/20/2019	20:45:18	COM4	6.00	12.30	180.00	370.60	370.6 BBLS LEAD CEMENT, 878 SKS @ 12.3 PPG / 2.37 YLD / 13.74 GAL/SK
Event	21	Pump Tail Cement	6/20/2019	21:47:13	COM4	8.00	12.80	320.00	94.70	94.7 BBLS TAIL CEMENT, 252 SKS @ 12.8 PPG / 2.11 YLD / 11.75 GAL/SK
Event	22	Drop Plug	6/20/2019	22:01:39	COM4					PLUG AWAY
Event	23	Pump Displacement	6/20/2019	22:03:09	COM4	8.00	8.33	445.00	197.30	197.3 BBLS FRESH WATER DISPLACEMENT
Event	24	Bump Plug	6/20/2019	22:30:14	COM4	2.00	8.33	180.00	197.30	PLUG BUMPED AT CALCULATED, FINAL CIRCULATING PRESSURE 180 PSI @ 2 BBL/MIN, BROUGHT TO 890 PSI
Event	25	CHECK FLOATS	6/20/2019	22:31:40	COM4					FLOATS HELD, 1 BBL BACK TO PUMP
Event	26	CLEAR PARASITE	6/20/2019	22:42:41	COM4	3.00	8.33	250.00	8.00	PUMP 8 BBLS SUGAR WATER TO CLEAR PARASITE LINE
Event	27	Pump Cement	6/20/2019	23:25:01	COM4	3.00	15.60	230.00	75.90	75.9 BBLS TOP OUT CEMENT, 358 SKS @ 15.6 PPG / 1.19 YLD / 5.24 GAL/SK, 3 SKS CaCl AND 10 BBLS SUPERFLUSH USED, CEMENT TO SURFACE
Event	28	End Job	6/20/2019	23:47:00	COM4					PIPE LEFT STATIC, NO RETURNS THROUGHOUT, 40 LBS SUGAR AND TOP PLUG USED, 5 TRANSPORT HOURS CHARGED, NO ADD HOURS
Event	29	Pre-Rig Down Safety Meeting	6/21/2019	00:00:00	USER	0.00	16.13	2.00	71.30	JSA COMPLETED
Event	30	Rig-Down Equipment	6/21/2019	00:10:00	USER	0.00	15.67	9.00	72.70	

Event	31	Pre-Convoy Safety Meeting	6/21/2019	01:25:00	USER	JSA COMPLETED
Event	32	Crew Leave Location	6/21/2019	01:30:00	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, CO - RYAN MARTIN AND CREW

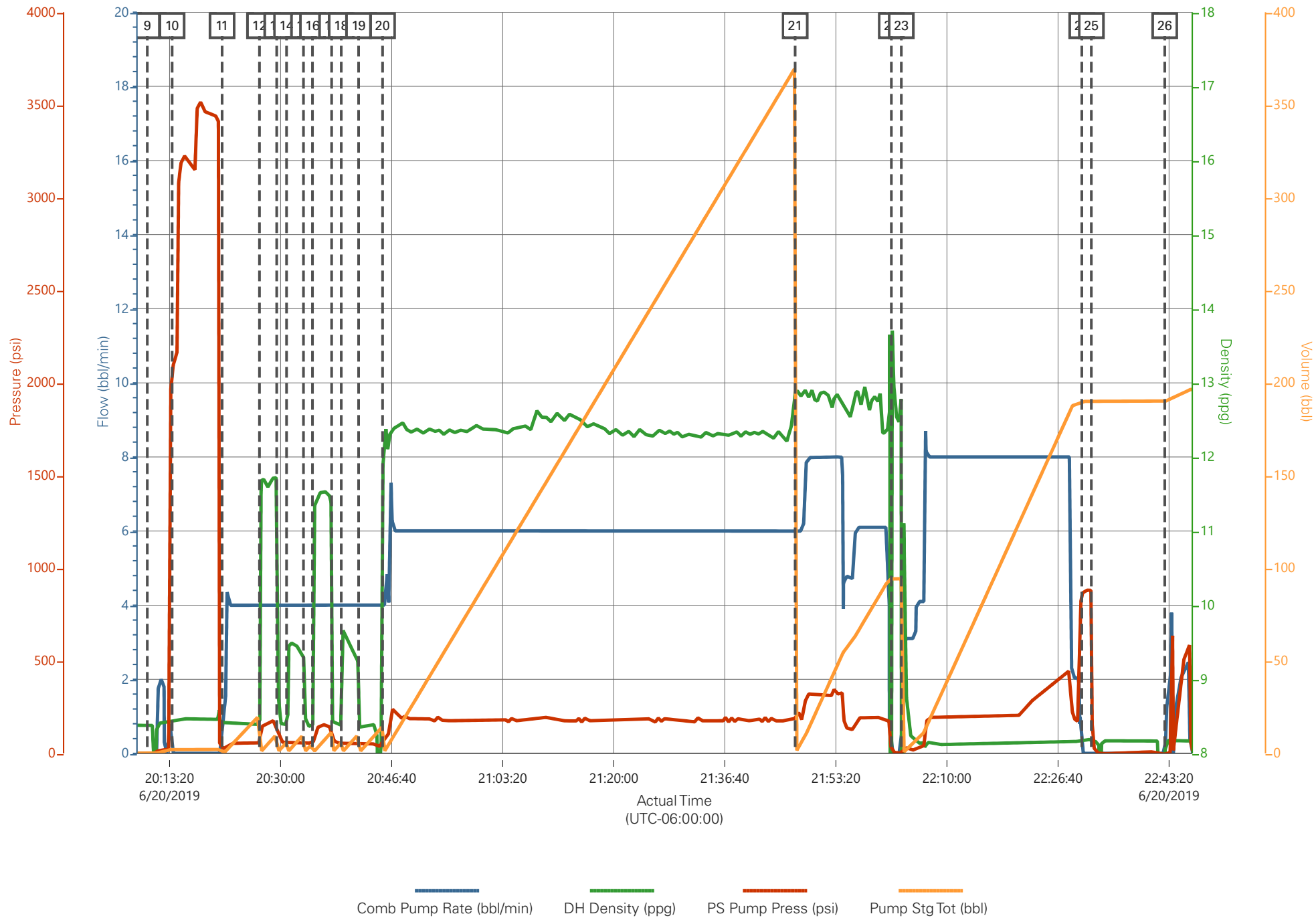
LARAMIE - CC FEDERAL 697-04-02E - 9 5/8" SURFACE CASING



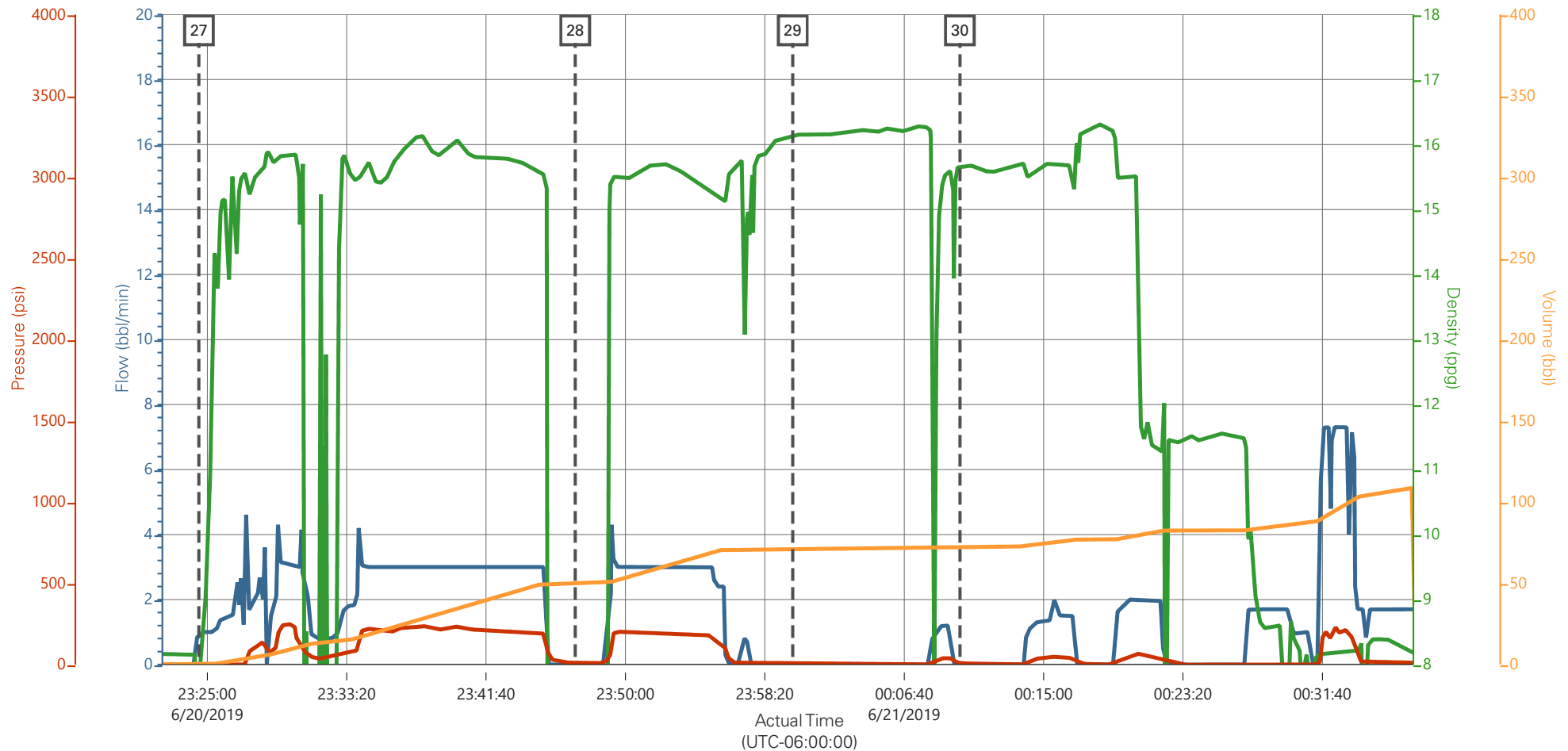
Comb Pump Rate (bbl/min) DH Density (ppg) PS Pump Press (psi) Pump Stg Tot (bbl)

Description	Actual Time (UTC-06:00:00)	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	
9 Start Job	20:10:00	0.00	8.38	-3.00	0.00	
10 Test Lines	20:13:43	0.00	8.45	2015.00	2.10	
11 Pump FRESH WATER	20:21:13	0.00	8.44	27.00	0.00	
12 Pump SUPERFLUSH	20:26:50	4.00	8.39	53.00	0.00	
13 Pump FRESH WATER	20:29:25	4.00	11.58	149.00	10.40	
14 Pump CaCl WATER	20:30:54	4.00	8.39	57.00	0.00	
15 Pump FRESH WATER	20:33:26	4.00	9.30	60.00	0.00	
16 Pump SUPERFLUSH	20:34:47	4.00	8.38	55.00	0.00	
17 Pump FRESH WATER	20:37:39	4.00	10.69	130.00	11.50	
18 Pump CaCl WATER	20:39:06	4.00	8.38	54.00	0.00	
19 Pump FRESH WATER	20:41:42	4.00	9.22	57.00	0.00	
20 Pump Lead Cement	20:45:18	4.00	11.42	61.00	14.50	
21 Pump Tail Cement	21:47:13	6.00	12.85	178.00	0.10	
22 Drop Plug	22:01:39	0.00	0.38	25.00	94.30	
23 Pump Displacement	22:03:09	0.00	11.58	0.00	94.30	
24 Bump Plug	22:30:14	0.00	8.19	854.00	190.00	
25 CHECK FLOATS	22:31:40	0.00	8.18	775.00	190.00	
26 CLEAR PARASITE	22:42:41	0.00	6.87	-5.00	190.00	

LARAMIE - CC FEDERAL 697-04-02E - 9 5/8" SURFACE CASING



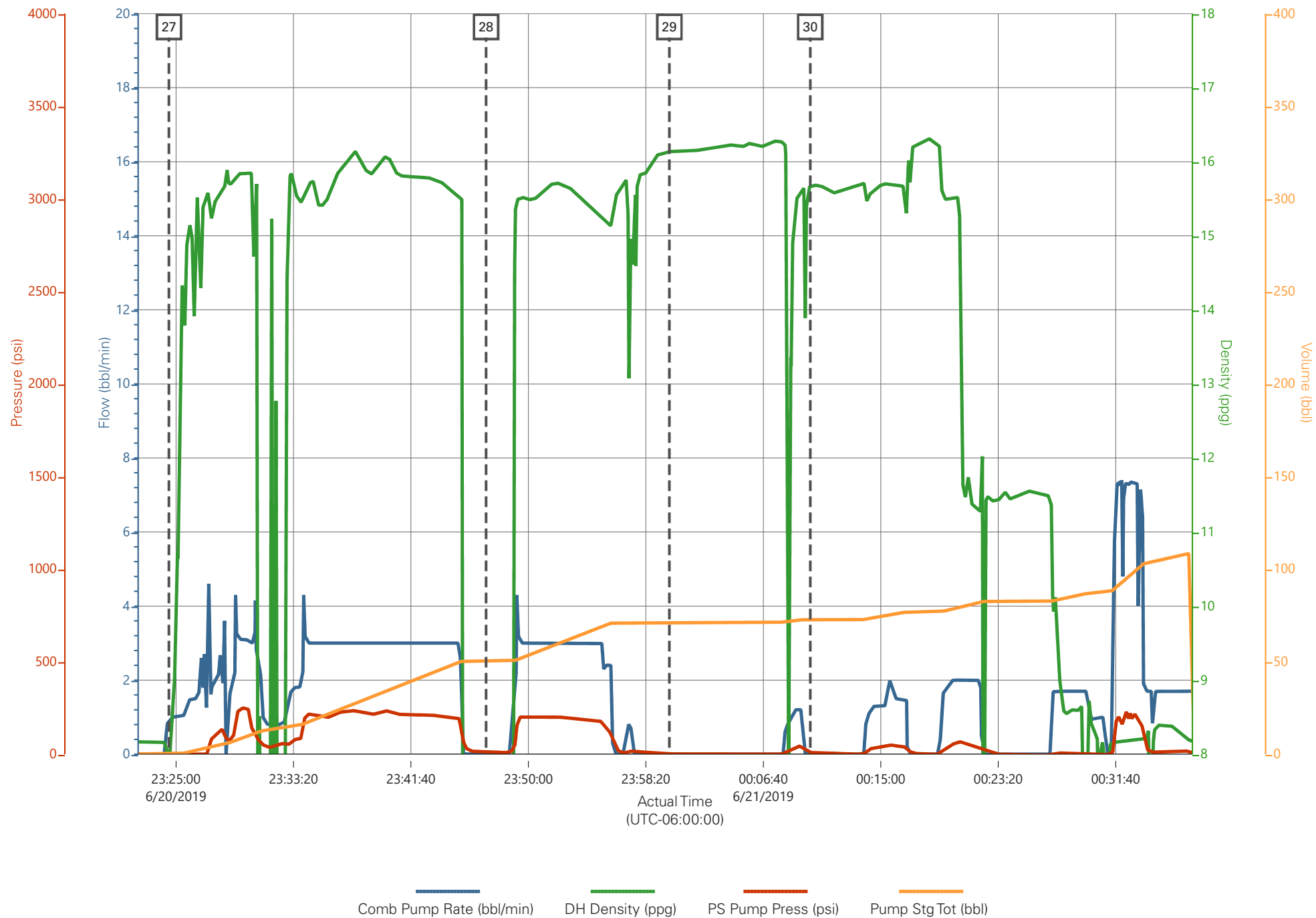
LARAMIE - CC FEDERAL 697-04-02E - 9 5/8" SURFACE CASING



Comb Pump Rate (bbl/min) DH Density (ppg) PS Pump Press (psi) Pump Stg Tot (bbl)

Description	Actual Time (UTC-06:00:00)	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)
27 Pump Cement	23:24:30	0.90	7.63	-1.00	0.20
28 End Job	23:47:00	0.00	0.42	11.00	50.20
29 Pre-Rig Down Safety Meeting	00:00:00	0.00	16.13	2.00	71.30
30 Rig-Down Equipment	00:10:00	0.00	15.67	9.00	72.70

LARAMIE - CC FEDERAL 697-04-02E - 9 5/8" SURFACE CASING



HALLIBURTON

iCem[®] Service

Laramie Energy LLC

United States of America, COLORADO

For: Aaron Duncan

Date: Tuesday, June 25, 2019

CC Federal 0697-04-02E Production PJR

API# 05-045-23989-00

Sincerely,

Grand Junction Cement Engineering

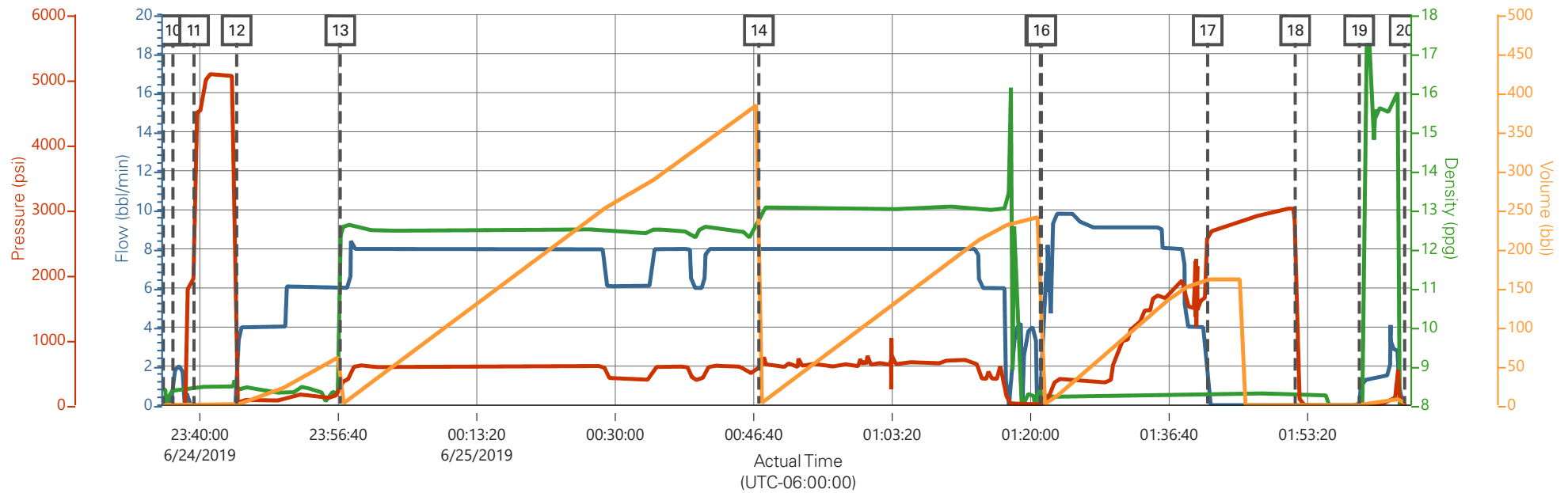
2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	6/24/2019	14:30:00	USER					REQUESTED ON LOCATION 6/24/19 @ 21:00
Event	2	Depart Yard Safety Meeting	6/24/2019	18:25:00	USER					JSA COMPLETED
Event	3	Crew Leave Shop	6/24/2019	18:30:00	USER					
Event	4	Arrive At Loc	6/24/2019	20:30:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	6/24/2019	20:45:00	USER					JSA COMPLETED
Event	6	Pre-Rig Up Safety Meeting	6/24/2019	20:55:00	USER					JSA COMPLETED
Event	7	Rig-Up Equipment	6/24/2019	21:00:00	USER					
Event	8	Pre-Job Safety Meeting	6/24/2019	23:00:00	USER					JSA COMPLETED, PRESSURIZED MUD SCALES CALIBRATED TO FRESH WATER
Event	9	Start Job	6/24/2019	23:35:36	COM4					4.5"-11.6# CASING IN 8.75" OH, TD 10368', TP 10358', ST 88.5', MUD 8.9 PPG, WATER TEMP 50, PH 7, CHLORIDES 0
Event	10	FILL LINES	6/24/2019	23:36:46	COM4	2.00	8.33	30.00	2.00	2 BBLS FRESH WATER WITH 2 LBS RED DYE
Event	11	Test Lines	6/24/2019	23:39:18	COM4			5000.00		TEST LINES TO 5000 PSI
Event	12	Pump Spacer 1	6/24/2019	23:44:26	COM4	6.00	8.40	150.00	60.00	60 BBLS MUDFLUSH
Event	13	Pump Lead Cement	6/24/2019	23:56:54	COM4	8.00	12.50	600.00	361.80	361.8 BBLS LEAD CEMENT, 1047 SKS @ 12.5 PPG / 1.94 YLD / 9.59 GAL/SK

Event	14	Pump Tail Cement	6/25/2019	00:47:17	COM4	8.00	13.00	650.00	200.20	200.2 BBLS TAIL CEMENT, 543 SKS @ 13.0 PPG / 2.07 YLD / 9.42 GAL/SK
Event	15	Drop Plug	6/25/2019	01:21:10	COM4					PLUGS AWAY
Event	16	Pump Displacement	6/25/2019	01:21:17	COM4	9.50	8.33	1940.00	159.20	159.2 BBLS FRESH WATER DISPLACEMENT WITH 1 GALLON MMCR AND 5 GALLONS CLA-WEB THROUGHOUT, SPACER TO SURFACE @ 65 BBLS AWAY, AIR SHUT OFF
Event	17	Bump Plug	6/25/2019	01:41:18	COM4	4.00	8.33	1600.00	159.20	PLUG BUMPED AT CALCULATED DISPLACEMENT, FINAL LIFT PRESSURE 1600 PSI @ 4 BBL/MIN, BROUGHT TO 2500 PSI FOR 10 MINUTE CASING TEST
Event	18	CHECK FLOATS	6/25/2019	01:51:50	COM4			2663.00		FINAL CASIGN TEST PRESSURE 2663 PSI, FLOATS HELD, 2 BBLS BACK TO PUMP
Event	19	Pump Cement	6/25/2019	01:59:33	COM4	3.00	15.60	100.00	6.30	6.3 BBLS TOP OUT CEMENT DOWN PARASITE LINE, 30 SKS @ 15.6 PPG / 1.18 YLD / 5.23 GAL/SK
Event	20	End Job	6/25/2019	02:05:01	COM4					PIPE LEFT STATIC, GOOD RETURNS THROUGHOUT, 25 BBLS SPACER TO SURFACE, 30 LBS SUGAR USED
Event	21	Pre-Rig Down Safety Meeting	6/25/2019	02:10:00	USER					JSA COMPLETED
Event	22	Rig-Down Equipment	6/25/2019	02:15:00	USER					
Event	23	Pre-Convoy Safety Meeting	6/25/2019	02:55:00	USER					JSA COMPLETED
Event	24	Crew Leave Location	6/25/2019	03:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, CO - RYAN MARTIN AND CREW

LARAMIE - CC FEDERAL 697-04-02E - 4 1/2" PRODUCTION CASING



Comb Pump Rate (bbl/min) DH Density (ppg) PS Pump Press (psi) Pump Stg Tot (bbl)

Description	Actual Time (UTC-06:00:00)	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)
9 Start Job	23:35:36	0.00	8.40	-3.00	0.00
10 FILL LINES	23:36:46	0.80	8.38	9.00	0.00
11 Test Lines	23:39:18	0.00	8.41	1940.00	2.20
12 Pump Spacer 1	23:44:26	0.00	8.34	11.00	2.20
13 Pump Lead Cement	23:56:54	6.00	11.95	232.00	0.10
14 Pump Tail Cement	00:47:17	8.00	12.78	539.00	0.10
15 Drop Plug	01:21:10	0.00	8.28	0.00	240.60
16 Pump Displacement	01:21:17	0.00	8.32	1.00	0.00
17 Bump Plug	01:41:18	0.00	8.29	2622.00	161.00
18 CHECK FLOATS	01:51:50	0.00	8.29	2663.00	0.00
19 Pump Cement	01:59:33	0.00	-0.12	-6.00	0.00
20 End Job	02:05:01	0.00	1.14	3.00	0.00

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Created: 2019-06-24 21:13:10, (UTC-06:00), Version: 5.0.161.0

Edit

Customer : Laramie Energy LLC

Job Date : 6/25/2019

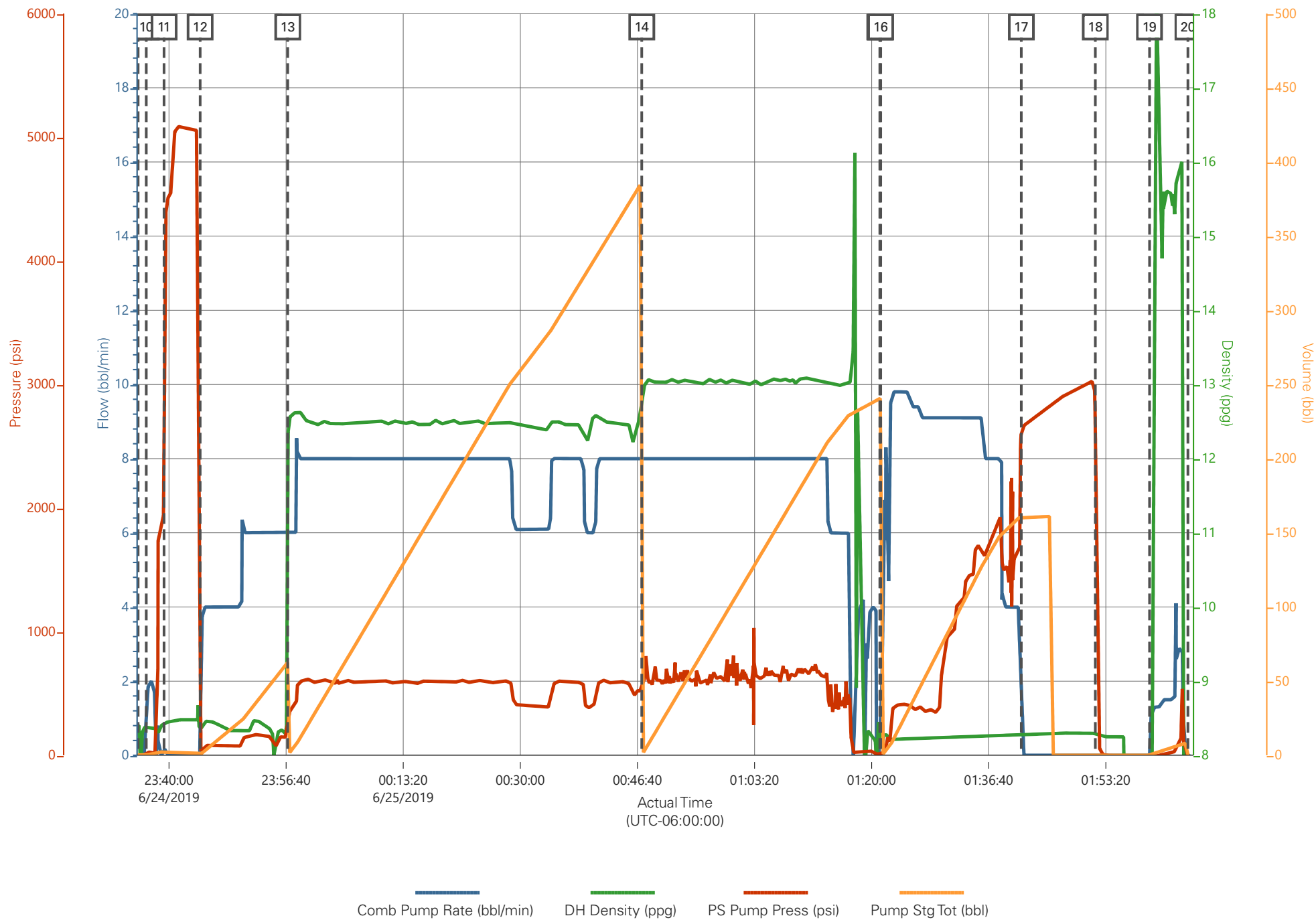
Well : CC FEDERAL 697-04-02E

Representative : SHANE HEARD

Sales Order # : 905774733

ELITE #8 : KYLE ROGERS / RYAN MARTIN

LARAMIE - CC FEDERAL 697-04-02E - 4 1/2" PRODUCTION CASING



Job Information

Request/Slurry	2564082/2	Rig Name	H&P 522	Date	17/JUN/2019
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	CC Federal 0697-04-02E

Well Information

Casing/Liner Size	4.5 in	Depth MD	10330 ft	BHST	123°C / 253°F
Hole Size	8.75 in	Depth TVD	10163 ft	BHCT	89°C / 192°F
Pressure	6414 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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Cement Information - Lead Design



<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>MP</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
							Slurry Density	12.5	lbm/gal
							Slurry Yield	1.95	ft3/sack
							Water Requirement	9.61	gal/sack
							Total Mix Fluid	9.61	gal/sack
							Water Source	Fresh Water	
							Water Chloride		

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Operation Test Results Request ID 2564082/2

Thickening Time - ON-OFF-ON, Request Test ID:36607972

24/JUN/2019

Test Temp (degF)	Pressure (psi)	Reached in (min)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
192	6414	51	4:11	4:16	4:18	16	61	15	15

Total SKS = 1047

CS0736 TR 8321 247 SKS

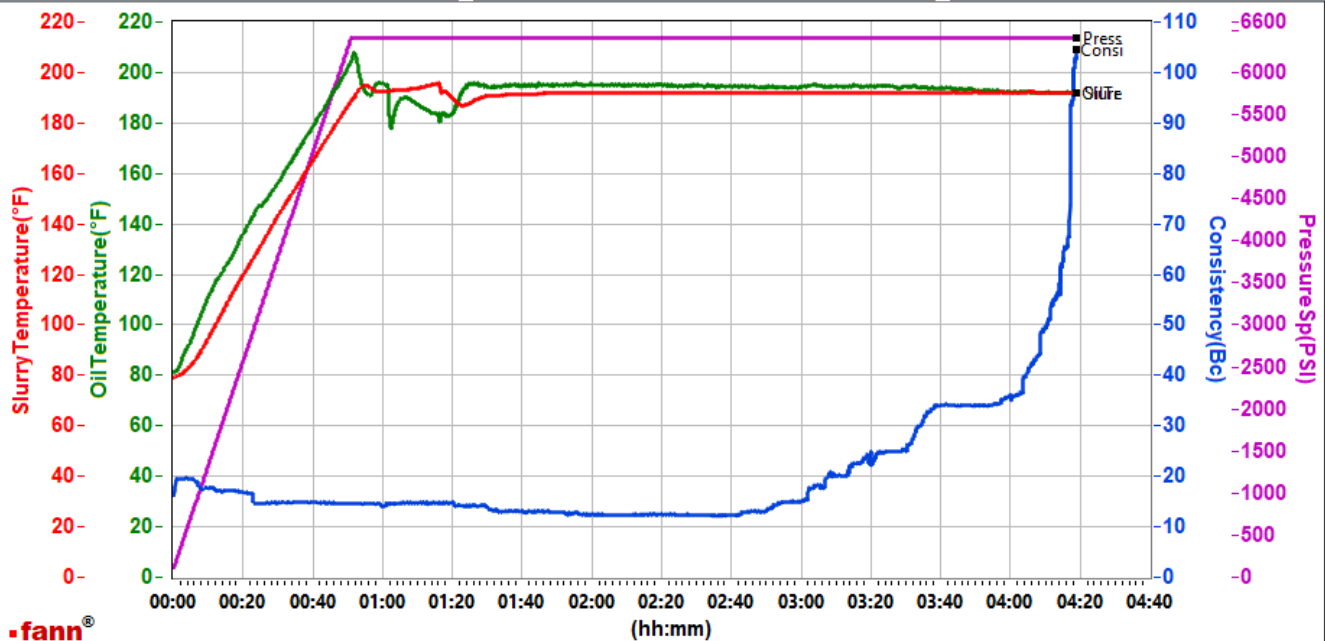
no deflection, 15Bc--- > 15Bc

GRAND JUNCTION

Fields	Values
Project Name	GJ2564082-1 Laramie Pr
SW Version	1.0
Test ID	36607972-TT
Request ID	2564082-2
Tested by	JASON
Customer	LARAMIE ENERGY
Well No	CC FEDERAL 0697-04-0

Fields	Values
Rig	H&P 522
Casing/Liner Size	4.5 INCH
Job Type	PRODUCTION
Cement Weight	GCC TYPE I-II
Comments	Light Weight
Date Time	6/23/2019 12:32:11.604
Temp. Units	degF

Events	Results
30 Bc	3:34
50 Bc	4:11
70 Bc	4:16
100 Bc	4:18



Data File C:\Users\HX25273\Desktop\HPHT Graphs\GJ2564082-2 LARAMIE PRODUCTION BULK LEAD.tdms

Comments Light Weight

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Operation Test Results Request ID 2564082/1

Thickening Time - ON-OFF-ON, Request Test ID:36604933

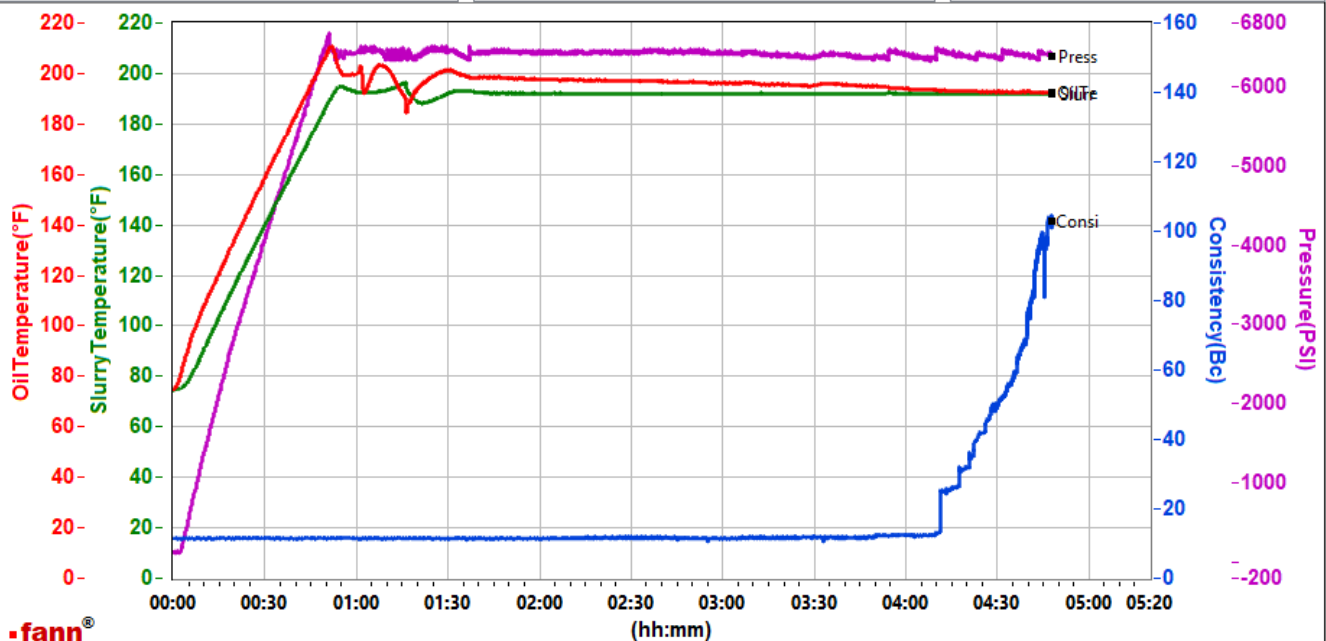
22/JUN/2019

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
192	6414	51	4:17	4:29	4:39	4:47	11	61	15	11

No deflection

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2564082-1 LARAMIE F	Rig	H&P 522	30 Bc	4:17
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 Bc	4:29
Test ID	36604933-TT	Job Type	PRODUCTION	70 Bc	4:39
Request ID	2564082-1	Cement Weight	GCC TYPE II	100 Bc	4:47
Tested by	JASON	Comments	Light Weight		
Customer	LARAMIE ENERGY	Date Time	6/22/2019 04:02:01.605		
Well No	CC FEDERAL 0697-04-0	Temp. Units	degF		



Data File N:\01 Test Graphs\GJ2564082-1 LARAMIE PRODUCTION BULK LEAD RETEST.tdms

Comments Light Weight

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2564083/2	Rig Name	H&P 522	Date	17/JUN/2019
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	CC Federal 0697-04-02E

Well Information

Casing/Liner Size	4.5 in	Depth MD	10330 ft	BHST	123°C / 253°F
Hole Size	8.75 in	Depth TVD	10163 ft	BHCT	89°C / 192°F
Pressure	6414 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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Cement Information - Tail Design

Conc	UOM	Cement/Additive	MP	Sample Type	Sample Date	Lot No.	Cement Properties		
							Slurry Density	13	lbm/gal
							Slurry Yield	2.07	ft3/sack
							Water Requirement	9.42	gal/sack
							Total Mix Fluid	9.42	gal/sack
							Water Source	Fresh Water	
							Water Chloride		

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Operation Test Results Request ID 2564083/2

Thickening Time - ON-OFF-ON, Request Test ID:36608102

24/JUN/2019

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
192	6414	51	3:10	3:14	3:22	3:32	18	61	15	24

Total SKS = 543

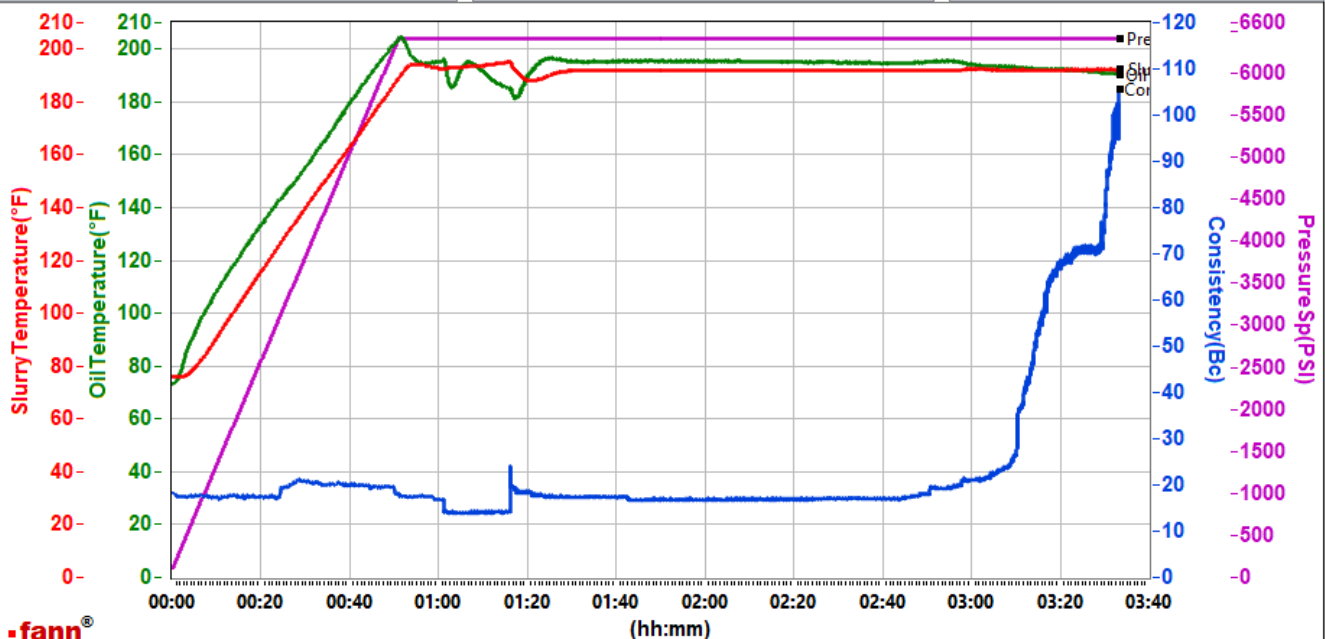
CS0737 TR 4549 200 SKS

Deflected from 14Bc--- > 24Bc--- > 19Bc within one minute

Heat of hydration at 3:28

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2564083-2 Laramie Pr	Rig	H&P 522	30 Bc	3:10
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 Bc	3:14
Test ID	36608102-TT	Job Type	PRODUCTION	70 Bc	3:22
Request ID	2564083-2	Cement Weight	GCC TYPE I-II	100 Bc	3:32
Tested by	JASON	Comments	Light Weight		
Customer	LARAMIE ENERGY	Date Time	6/23/2019 13:31:50.258		
Well No	CC FEDERAL 0697-04-0	Temp. Units	degF		



Data File C:\Users\HX25273\Desktop\HPHT Graphs\GJ2564083-2 LARAMIE PRODUCTION BULK TAIL.tdms

Comments Light Weight

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Operation Test Results Request ID 2564083/1

Thickening Time - ON-OFF-ON, Request Test ID:36604688

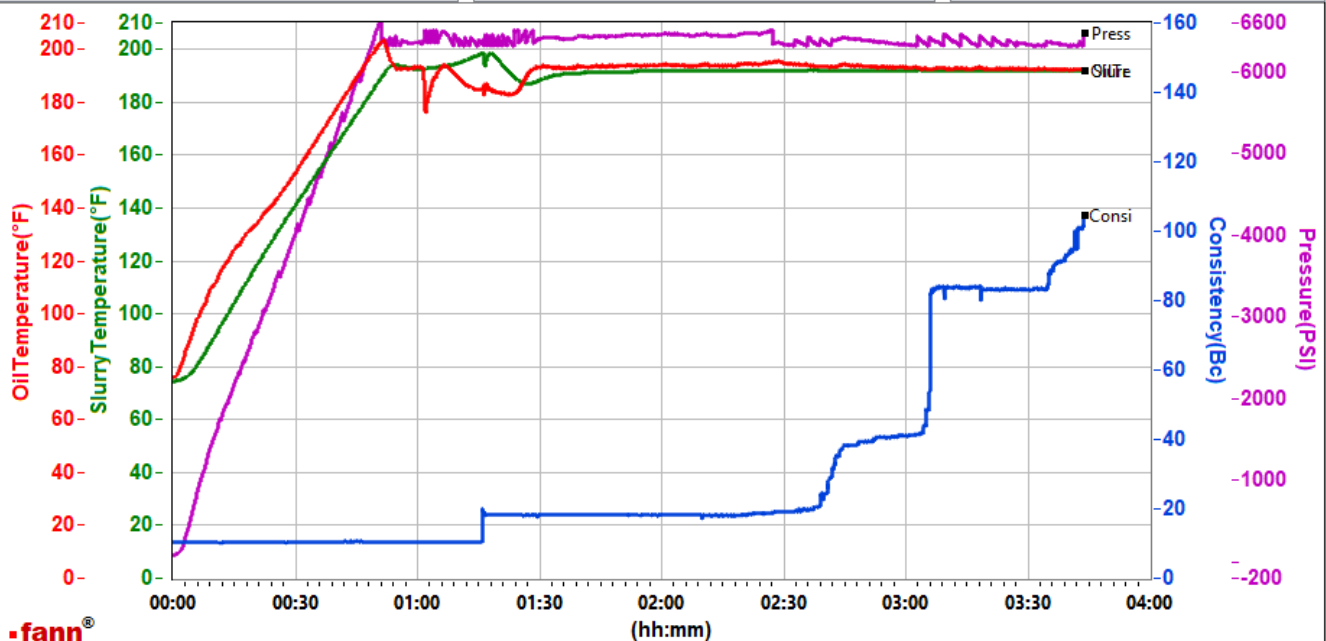
22/JUN/2019

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
192	6414	51	2:42	3:05	3:05	3:42	10	61	15	20

Deflected 10-- > 20

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2564083-1 LARAMIE F	Rig	H&P 522	30 Bc	2:42
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 Bc	3:05
Test ID	36604688-TT	Job Type	PRODUCTION	70 Bc	3:05
Request ID	2564083-1	Cement Weight	GCC TYPE I-II	100 Bc	3:42
Tested by	JASON	Comments	Light Weight		
Customer	LARAMIE ENERGY	Date Time	6/22/2019 02:17:16.953		
Well No	CC FEDERAL 0697-04-0	Temp. Units	degF		



Data File N:\01 Test Graphs\GJ2564083-1 LARAMIE PRODUCTION BULK TAIL RETEST.tdms

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