

HALLIBURTON

iCem[®] Service

Laramie Energy LLC

Rock Springs District, Colorado

For: Aaron Duncan

Date: Friday, July 19, 2019

CC Federal 0697-03-04W Surface PJR

API# 05-045-23933-00

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

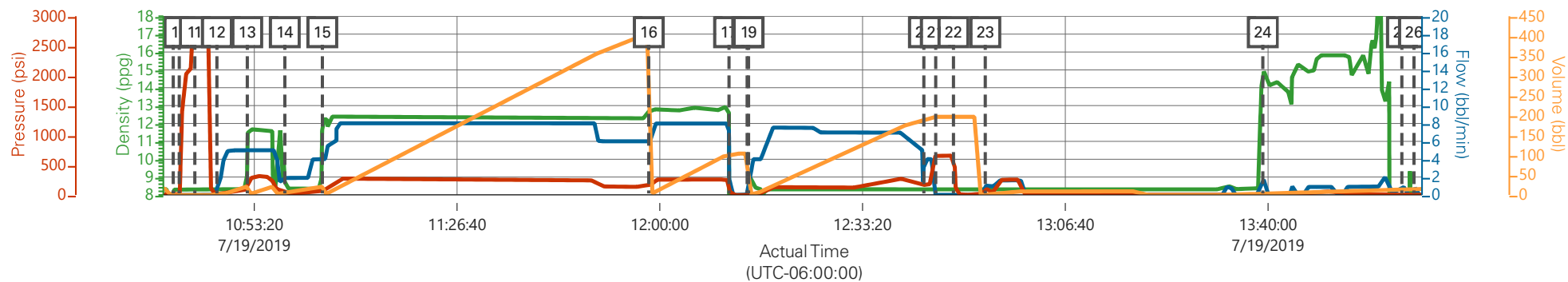
2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	7/19/2019	05:30:00	USER					REQUESTED ON LOCATION @ ASAP
Event	2	Pre-Convoy Safety Meeting	7/19/2019	07:25:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	7/19/2019	07:30:00	USER					1 F550, 1 PUMP TRUCK, 1 660 BULK TURCK & 1 TRANSPORT
Event	4	Arrive at Location from Service Center	7/19/2019	08:45:00	USER					RIG CIRCULATING ON BOTTOM
Event	5	Assessment Of Location Safety Meeting	7/19/2019	08:49:00	USER					MET WITH COMP REP, , AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 68F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Safety Meeting - Pre Rig-Up	7/19/2019	08:55:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	7/19/2019	09:00:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	7/19/2019	10:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	7/19/2019	10:40:00	COM2					TD 2563', TP 2553', SJ 41" OH 14.75", CSG 9.625" 36#, MUD 9.2 PPG. RIG FILLED LANDING JOINT WITH WATER, PULLED THAT JOINT AND TURNED IT OVER TO HES TO CEMENT OFF LINE.

Event	10	Prime Pumps	7/19/2019	10:41:00	USER	15.00	8.33	1.00	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	7/19/2019	10:43:34	COM2	2750.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 2750 PSI
Event	12	Pump Spacer 1	7/19/2019	10:47:11	COM2	120.00	8.33	4.00	10.00	8.33 PPG FRESH WATER (20 BBL)
Event	13	Pump Spacer 2	7/19/2019	10:52:11	COM2	256.00	11.70	4.00	20.00	11.7 PPG SUPER FLUSH 100 (20 BBL)
Event	14	Pump Spacer 1	7/19/2019	10:58:21	COM2	72.00	8.33	4.00	10.00	8.33 PPG FRESH WATER (20 BBL)
Event	15	Pump Lead Cement	7/19/2019	11:04:31	COM2	225.00	12.30	8.00	371.00	VARICEM CEMENT 878 SKS (371 BBLS), 12.3 PPG, 2.37 FT3/SK, 13.74 GAL/SK
Event	16	Pump Tail Cement	7/19/2019	11:58:11	COM2	147.00	12.8	8.00	95.40	VARICEM CEMENT 252 SKS (95 BBLS), 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK.
Event	17	Shutdown	7/19/2019	12:11:23	USER					END OF CMT
Event	18	Drop Top Plug	7/19/2019	12:14:22	USER					PLUG WENT, VERIFIED BY CO REP.
Event	19	Pump Displacement	7/19/2019	12:14:36	COM2	250.00	8.33	7.5	184.2	8.34 PPG FRESH WATER (194.2 BBLS)
Event	20	Slow Rate	7/19/2019	12:43:25	USER	200.00	8.33	4.00	10.00	SLOW RATE TO 4 BPM PER CO REP TO LAND PLUG
Event	21	Bump Plug	7/19/2019	12:45:22	USER	658.00	8.33	0.00	194.20	LAND PLUG AT 200 PSI, BROUGHT UP TO 670 PSI
Event	22	Check Floats	7/19/2019	12:48:16	USER	660.00				FLOATS HELD, 1 BBL BACK TO TRUCK
Event	23	Pump Spacer 1	7/19/2019	12:53:31	COM2	150.00	8.33	2.00	10.00	8.33 PPG SUGAR WATER (10 BBL)
Event	24	Pump Cement	7/19/2019	13:39:08	COM2	71.00	15.6	2.00	8.00	TYPE I/II CEMENT 40 SKS (8 BBLS), 15.6 PPG, 1.16 FT3/SK, 5.24 GAL/SK.
Event	25	End Job	7/19/2019	14:02:00	COM2					NO RETURNS DURING THE JOB, JOB WAS PUMPED OFF LINE, 0 BBL OF SPACER OR CEMENT BACK TO SURFACE ON PRIMARY JOB, 40 SKS OF TOP OUT USED, 24 BBL OF SF AND 1 SKS OF CC USED.
Event	26	Post-Job Safety Meeting (Pre Rig-Down)	7/19/2019	14:03:59	USER					ALL HES PRESENT
Event	27	Rig-Down Equipment	7/19/2019	14:26:42	USER					ALL HES PRESENT

Event	28	Pre-Convoy Safety Meeting	7/19/2019	14:32:31	USER	ALL HES PRESENT
Event	29	Crew Leave Location	7/19/2019	15:03:23	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

LARAMIE - CC 0697- 03-04W - 9.625" SURFACE



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

Description	Actual Time (UTC-06:00:00)	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	
9 Start Job	10:40:00	8.31	0.00	10.00	0.00	
10 Prime Pumps	10:41:00	8.32	0.00	15.00	0.00	
11 Test Lines	10:43:34	8.39	0.00	2750.00	0.00	
12 Pump Spacer 1	10:47:11	8.33	0.90	1.00	0.10	
13 Pump Spacer 2	10:52:11	10.58	5.00	106.00	0.00	
14 Pump Spacer 1	10:58:21	8.60	1.90	37.00	5.00	
15 Pump Lead Cement	11:04:31	11.92	4.00	64.00	21.00	
16 Pump Tail Cement	11:58:11	12.67	6.00	147.00	407.40	
17 Shutdown	12:11:23	9.53	5.00	104.00	104.20	
18 Drop Top Plug	12:14:22	0.14	0.00	-2.00	104.20	
19 Pump Displacement	12:14:36	1.39	1.40	-1.00	0.10	
20 Slow Rate	12:43:25	8.36	4.10	130.00	191.70	
21 Bump Plug	12:45:22	8.37	0.00	658.00	196.70	
22 Check Floats	12:48:16	8.38	0.00	660.00	196.70	
23 Pump Spacer 1	12:53:31	8.37	1.30	150.00	0.60	
24 Pump Cement	13:39:08	14.93	1.60	11.00	2.10	
25 End Job	14:02:00	-0.07	0.40	5.00	15.80	
26 Post-Job Safety Meeting (Pre Rig-Down)	14:03:59	0.33	0.00	2.00	16.10	

▼ HALLIBURTON | iCem® Service

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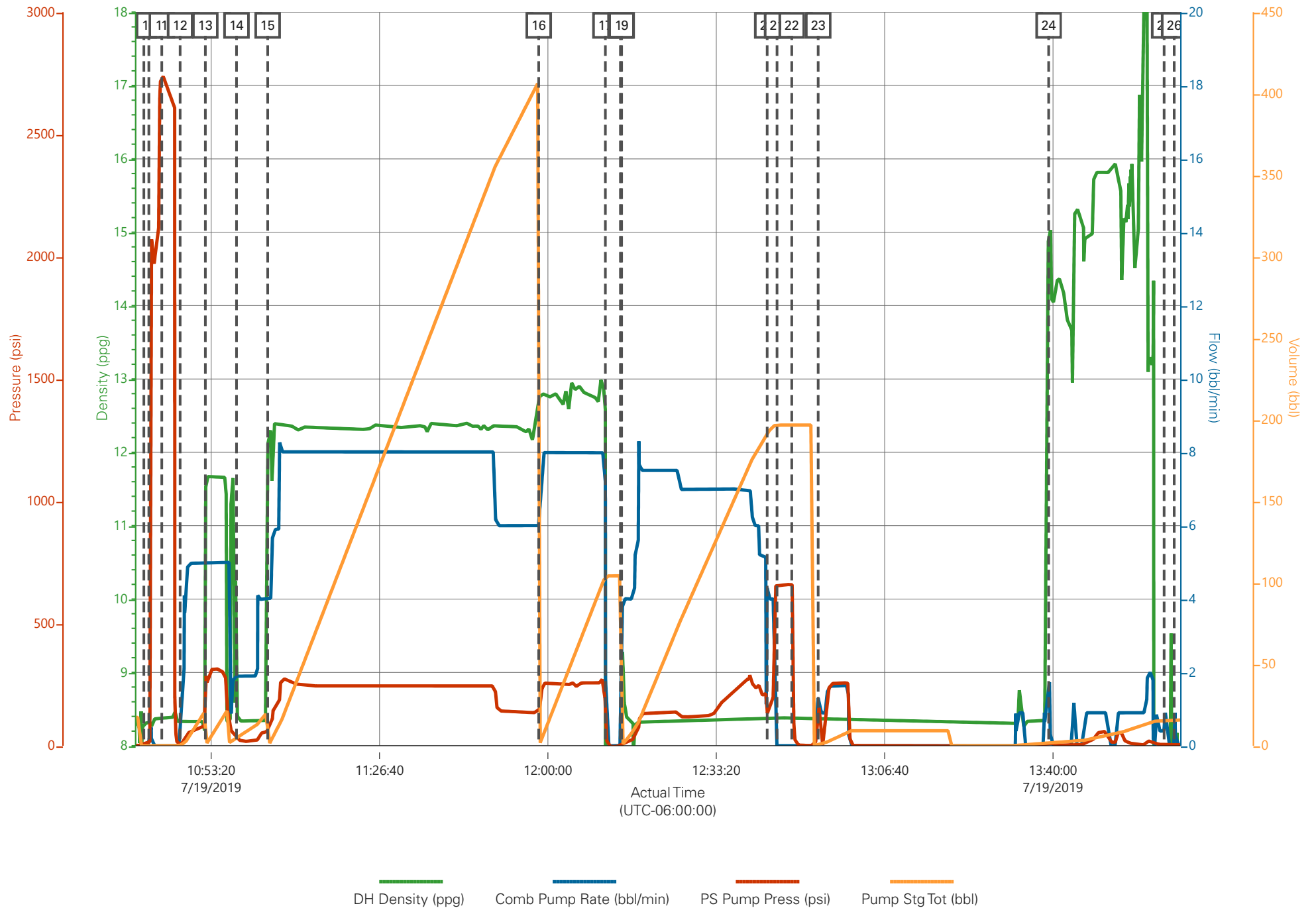
Edit

Customer : Laramie Energy LLC
Representative : SHANE

Job Date : 7/19/2019
Sales Order # : 905846288

Well : Cascade Creek 0697-03-04W
EITE 4 : C.SMITH/ S.LEWIS

LARAMIE - CC 0697- 03-04W - 9.625" SURFACE



HALLIBURTON

iCem[®] Service

Laramie Energy LLC

For: Aaron Duncan

Date: Tuesday, July 23, 2019

CC Federal 0697-03-04W Production PJR

API# 05-045-23933-00

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	7/23/2019	01:00:00	USER					REQUESTED ON LOCATION @ 8:00
Event	2	Pre-Convoy Safety Meeting	7/23/2019	03:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	7/23/2019	03:15:00	USER					1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	7/23/2019	05:45:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	7/23/2019	05:50:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH-7.0, CHLORIDES-500, TEMP-70F). COMP REP WAS OFFERED SDS FOR ALL CHEMICALS USED BY HES. CALIBRATED MUD SCALES ON WATER.
Event	6	Pre-Rig Up Safety Meeting	7/23/2019	06:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	7/23/2019	06:05:00	USER					HES RIGGED UP 1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 2 CEMENT SILOS, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	7/23/2019	10:10:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT. RIG CIRCULATED @ 10 BPM PRIOR TO JOB. PRESSURE WAS 201PSI. 1245CFM ON PARASITE. 7 UNITS OF GAS.

Event	9	Start Job	7/23/2019	10:24:35	COM4					TD 10,768', TP 10,758' OF 4 1/2" 11.6# P110 CSG, SJ 45.06', SURFACE CSG 9 5/8" 36# J55 SET @ 2530', OH 8 3/4", MUD 9 PPG
Event	10	Prime Lines	7/23/2019	10:25:25	USER	8.33	2	38	2	FRESH WATER
Event	11	Test Lines	7/23/2019	10:26:32	COM4			5200		ALL LINES HELD PRESSURE AT 5200 PSI
Event	12	Pump Mud Flush	7/23/2019	10:30:36	COM4	8.4	4	70	20	20BBLs MUD FLUSH
Event	13	Pump Lead Cement	7/23/2019	10:38:56	COM4	12.5	8	550	361.4	1166 SKS OF ECONOCEM CMT 12.5 PPG, 1.74 FT3/SK, 9.1 GAL/SK.
Event	14	Check Weight	7/23/2019	10:41:32	COM4					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Tail Cement	7/23/2019	11:24:18	COM4	13.0	8	600	196	632 SKS EXPANDACEM CMT 13. PPG, 1.74 FT3/SK, 7.99 GAL/SK.
Event	16	Check Weight	7/23/2019	11:26:13	COM4					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	7/23/2019	11:51:16	USER					END OF CEMENT. CLEAN PUMPS AND LINES TO CELLAR.
Event	18	Drop Top Plug	7/23/2019	11:56:56	COM4					VERIFIED BY PLUG INDICATOR
Event	19	Pump Displacement	7/23/2019	11:57:00	COM4	8.4	8	1556	166.1	1 GAL MMCR IN FIRST 10 BBLs, 5 GALS CLAY WEB THROUGH DISPLACEMENT
Event	20	Slow Rate	7/23/2019	12:17:16	USER	8.4	2	1100	150	SLOW RATE TO 2 BPM TO BUMP PLUG
Event	21	Bump Plug	7/23/2019	12:28:46	COM4	8.4	2	1300	166.1	LANDED PLUG AT 1300 PSI, BROUGHT UP TO 2520 PSI
Event	22	Casing Test	7/23/2019	12:29:10	COM4	8.4		2520	166.1	HELD 2520PSI FOR A TEN MIN CASING TEST
Event	23	Check Floats	7/23/2019	12:38:54	USER					FLOATS HELD, 1. BBL BACK TO TRUCK
Event	24	Pump Down Parasite	7/23/2019	13:00:17	USER	15.6	2	75	6.3	PUMPED 6.3BBLs OF TOP OUT DOWN THE PARASITE STRING 30 SKS OF TYPE I-II CMT 15.6 PPG, 1.18 FT3/SK, 5.23 GAL/SK.

PARTIAL RETURNS THROUGHT JOB WITH
 1300CFM ON PARASITE. SHUT OFF AIR TO
 PARASITE AT 150BBLS GONE ON DISPLACEMENT
 AND LOST RETURNS AT 160BBLS GONE. 5BBLS OF
 SPACER TO SURFACE, USED 2 TOP PLUGS AND 40#
 OF SUGAR.

Event 25 End Job 7/23/2019 13:04:39 COM4

Event 26 Post-Job Safety Meeting (Pre Rig-Down) 7/23/2019 15:00:00 USER

ALL HES PRESENT

Event 27 Rig-Down Equipment 7/23/2019 15:01:00 USER

ALL HES PRESENT

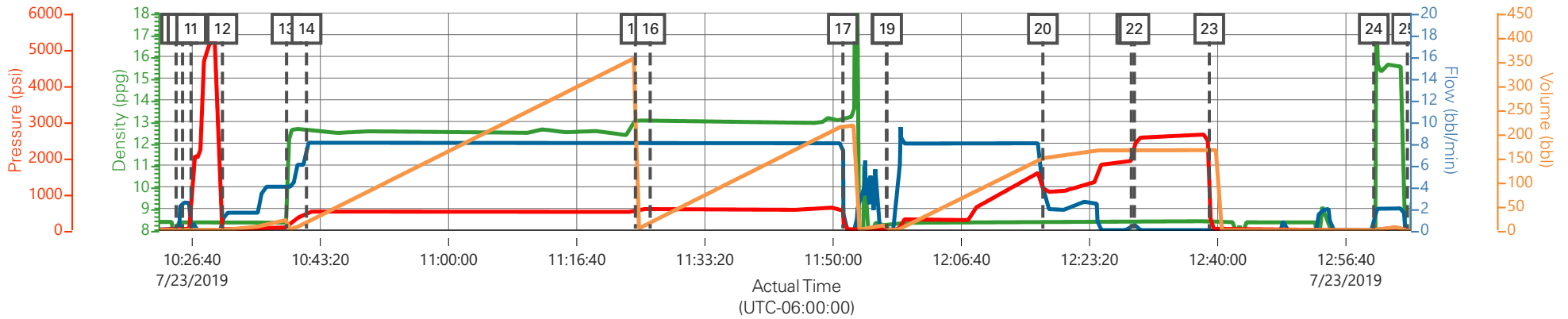
Event 28 Pre-Convoy Safety Meeting 7/23/2019 15:02:00 USER

ALL HES PRESENT

Event 29 Crew Leave Location 7/23/2019 15:03:00 USER

THANK YOU FOR CHOOSING HALLIBURTON
 CEMENT, SHAWN BLOSSOM AND CREW.

LARAMIE CC FED 0697-03-04W, 4.5" PRODUCTION



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

Description		Actual Time (UTC-06:00:00)	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	
9	Start Job	10:24:35	7.61	0.00	1.00	0.00	
10	Prime Lines	10:25:25	8.33	2.50	38.00	0.90	
11	Test Lines	10:26:32	8.32	0.00	34.00	3.30	
12	Pump Mud Flush	10:30:36	8.28	0.00	12.00	0.00	
13	Pump Lead Cement	10:38:56	8.33	4.00	70.00	21.40	
14	Check Weight	10:41:32	12.55	8.10	480.00	14.10	
15	Pump Tail Cement	11:24:18	13.07	8.00	561.00	0.10	
16	Check Weight	11:26:13	13.10	8.00	612.00	15.40	
17	Shutdown	11:51:16	13.08	8.00	594.00	216.40	
18	Drop Top Plug	11:56:56	8.27	0.00	-13.00	9.80	
19	Pump Displacement	11:57:00	8.30	0.00	-12.00	9.80	
20	Slow Rate	12:17:16	8.38	4.00	1148.00	149.10	
21	Bump Plug	12:28:46	8.39	0.40	1903.00	165.40	
22	Casing Test	12:29:10	8.39	0.70	2285.00	165.70	
23	Check Floats	12:38:54	8.45	0.00	1770.00	165.80	
24	Pump Down Parasite	13:00:17	1.11	1.50	-11.00	0.10	
25	End Job	13:04:39	0.33	0.00	-11.00	0.90	

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Created: 2019-07-22 15:22:40, (UTC-06:00), Version: 5.0.161.0

Edit

Customer : Laramie Energy LLC

Job Date : 7/23/2019

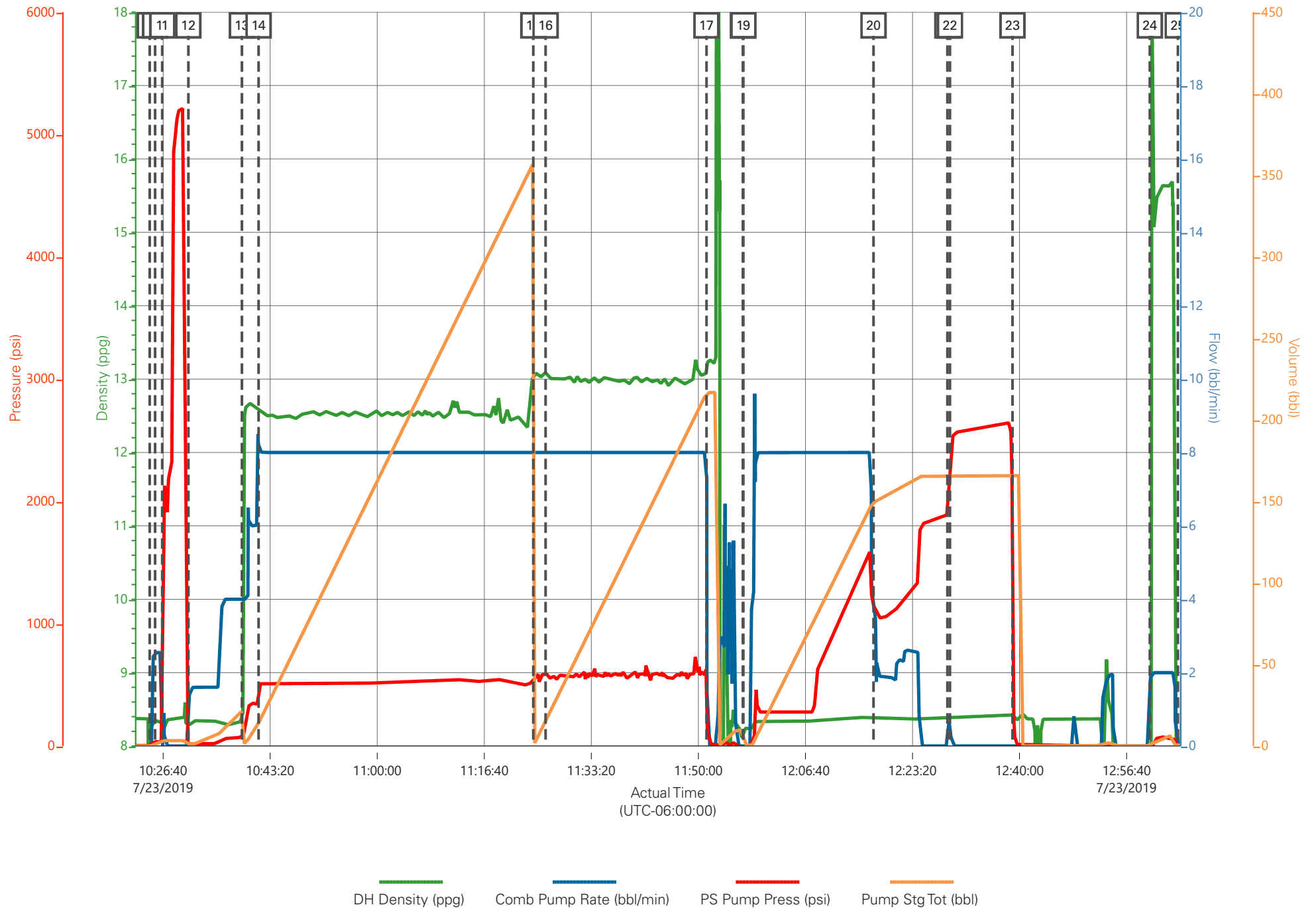
Well : CC FED 0697-03-04W

Representative : SHANE HEARD

Sales Order # : 905848204

ELITE 8 : PSALAZAR/S.BLOSSOM

LARAMIE CC FED 0697-03-04W, 4.5" PRODUCTION



Job Information

Request/Slurry	2571543/2	Rig Name		Date	20/JUL/2019
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	CC Federal 0697-03-04W

Well Information

Casing/Liner Size	4.5 in	Depth MD	10839 ft	BHST	124°C / 255°F
Hole Size	8.75 in	Depth TVD	10288 ft	BHCT	89°C / 193°F
Pressure	6502 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	1.74	ft3/sack
							Water Requirement	9.1	gal/sack
							Total Mix Fluid	9.1	gal/sack
							Water Source	Fresh Water	
							Water Chloride		

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Operation Test Results Request ID 2571543/2

Thickening Time - ON-OFF-ON, Request Test ID:36687407

21/JUL/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)
193	6502	51	3:44	3:51	3:56	4:01	24	61	15	12

total sks=1166

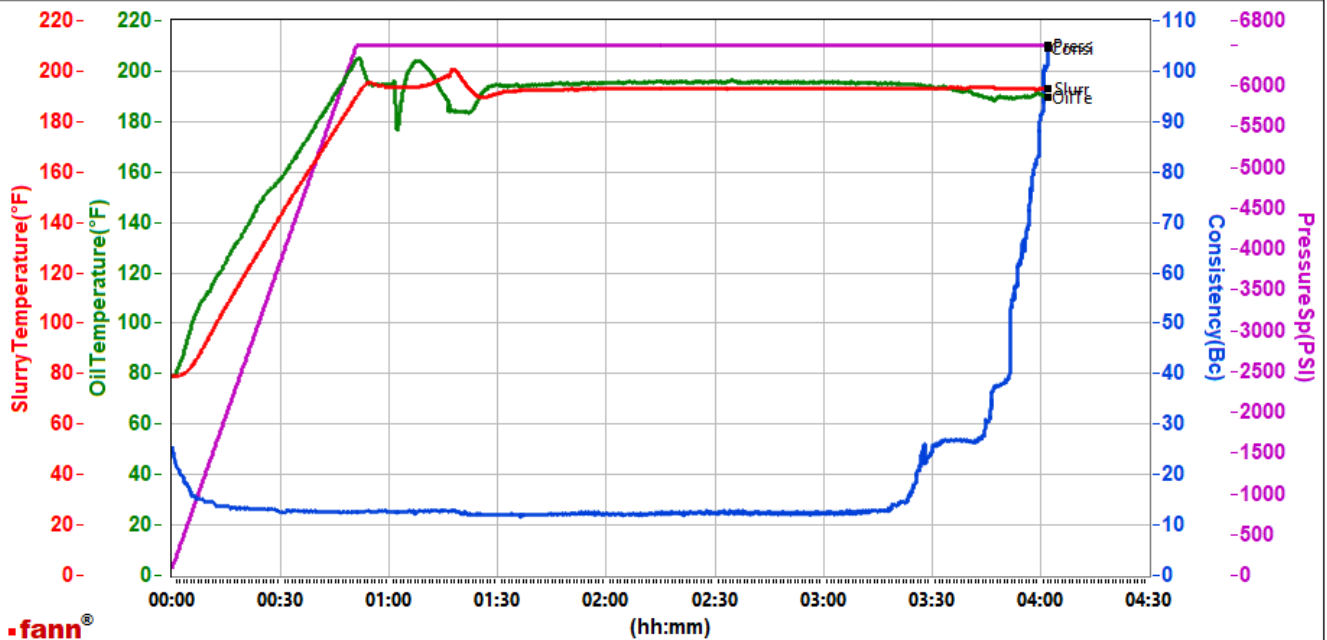
CS0860 TR#7304 116 sks

no deflection, 12Bc--- > 12Bc

heat of hydration at 3:34

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2571543-1 Laramie Pr	Rig	H & P 522	30 Bc	3:44
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 bC	3:51
Test ID	36687407 - TT	Job Type	PRODUCTION CASING	70 bC	3:56
Request ID	2571543-2	Cement Weight	GCC TYPE I-II	100 bC	4:01
Tested by	DS	Comments	Light Weight		
Customer	LARAMIE ENERGY	Date Time	7/21/2019 05:09:52.702		
Well No	CC FED 0697-03-04W	Temp. Units	degF		



Data File C:\Users\HX25273\Desktop\HPHT Graphs\GJ2571543-2 LARAMIE PRODUCTION BULK LEAD.tdms

Comments Light Weight

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Operation Test Results Request ID 2571543/1

Thickening Time - ON-OFF-ON, Request Test ID:36685272

21/JUL/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)
193	6502	51	3:24	3:31	3:35	20	61	15	13

total sks=1166

CS0857 TR#0813 525SKS

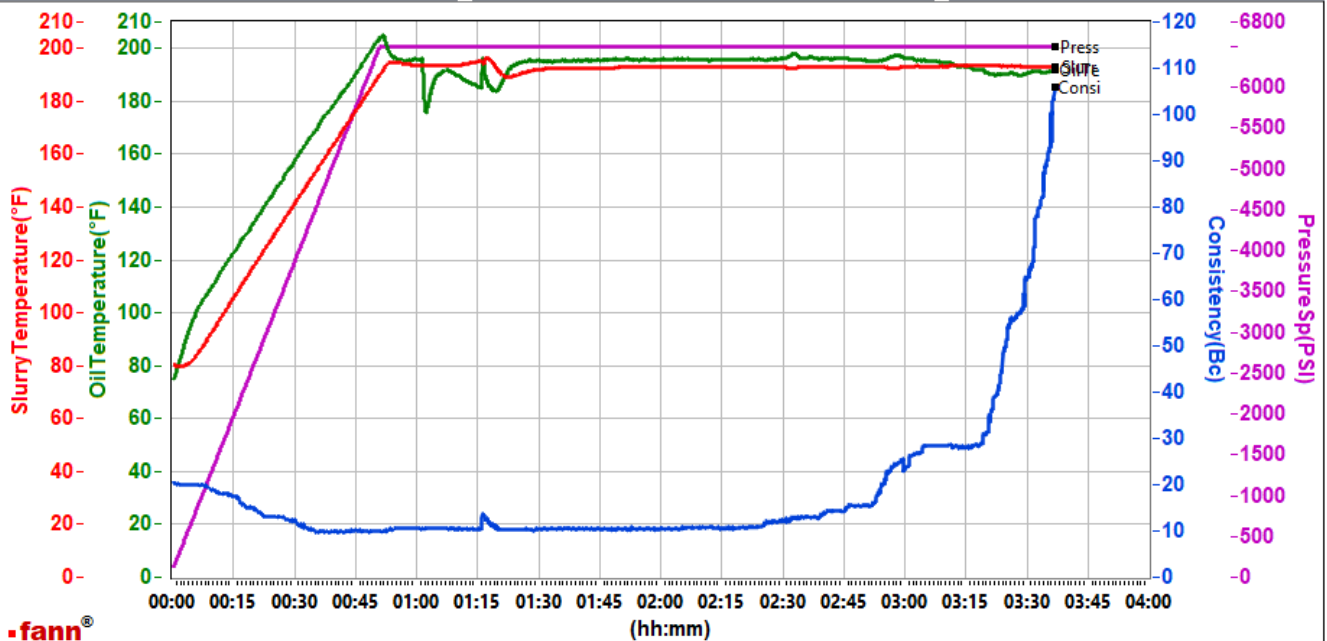
CS0858 TR#2878 525SKS

deflected from 10Bc--- > 13Bc

heat of hydration at 3:16

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2571543-1 Laramie Pr	Rig	H & P 522	30 Bc	3:19
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 Bc	3:24
Test ID	36685272 - TT	Job Type	PRODUCTION CASING	70 Bc	3:31
Request ID	2571543-1	Cement Weight	GCC TYPE I-II	100 Bc	3:35
Tested by	DS	Comments	Light Weight	30.00 Bc	03h:19m
Customer	LARAMIE ENERGY	Date Time	7/20/2019 11:30:49.127		
Well No	CC FED 0697-03-04W	Temp. Units	degF		



Data File C:\Users\HX25273\Desktop\HPHT Graphs\GJ2571543-1 LARAMIE PRODUCTION BULK LEAD.tdms

Comments Light Weight

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2571544/1	Rig Name		Date	20/JUL/2019
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	CC Federal 0697-03-04W

Well Information

Casing/Liner Size	4.5 in	Depth MD	10839 ft	BHST	124°C / 255°F
Hole Size	8.75 in	Depth TVD	10288 ft	BHCT	89°C / 193°F
Pressure	6502 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	1.74	ft3/sack
							Water Requirement	7.99	gal/sack
							Total Mix Fluid	7.99	gal/sack
							Water Source	Fresh Water	
							Water Chloride		

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Operation Test Results Request ID 2571544/1

Thickening Time - ON-OFF-ON, Request Test ID:36685274

21/JUL/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)
193	6502	51	2:30	2:44	3:24	3:35	17	61	15	16

total sks=632

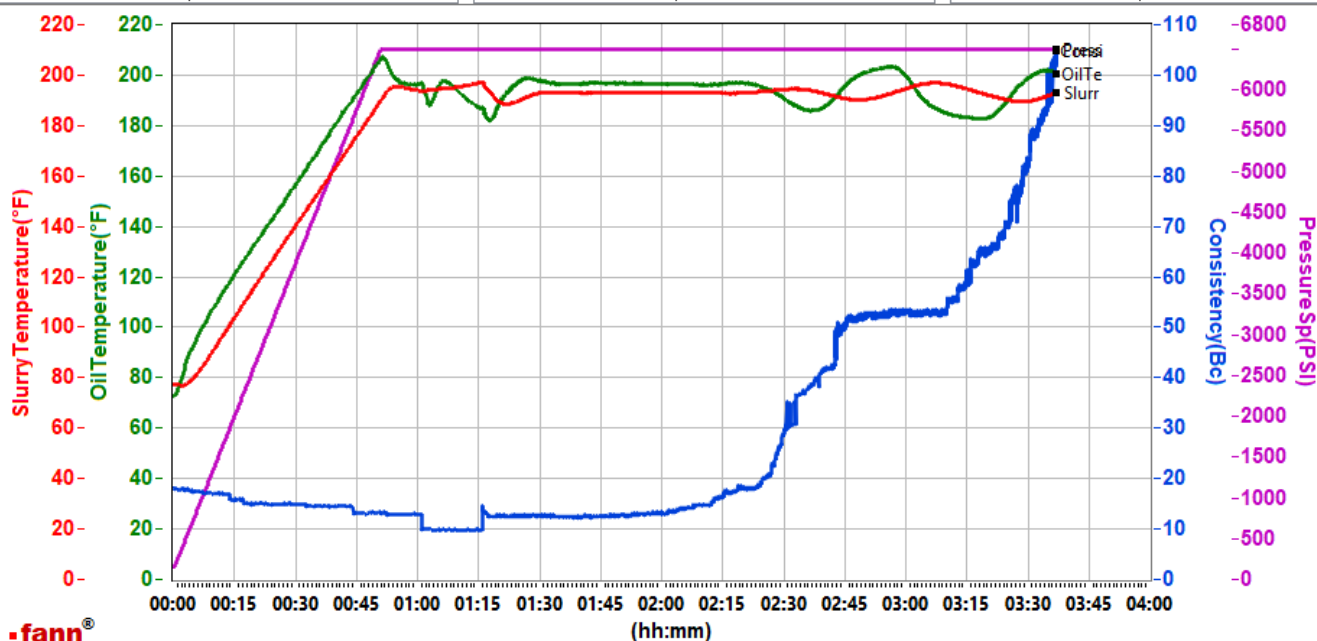
CS0859 TR#7304 Rear 182 SKS

CS0861 TR#8678 450 SKS

Deflected from 9Bc--- > 16Bc--- > 13Bc within one minute

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2571544-1 Laramie Pr	Rig	H&P 522	30 Bc	2:30
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 Bc	2:44
Test ID	36685274-TT	Job Type	PRODUCTION CASING	70 Bc	3:24
Request ID	2571544-1	Cement Weight	GCC TYPE I-II	100 Bc	3:35
Tested by	DS	Comments	Light Weight		
Customer	LARAMIE ENERGY	Date Time	7/21/2019 06:28:37.020		
Well No	CC FED 0697-03-04W	Temp. Units	degF		



Data File C:\Users\HX25273\Desktop\HPHT Graphs\GJ2571544-1 LARAMIE PRODUCTION BULK TAIL.tdms

Comments Light Weight

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