

HALLIBURTON

iCem[®] Service

LARAMIE ENERGY II LLC EBUSINESS

For: Laramie

Date: Wednesday, June 06, 2018

CC 0697-03-13E Surface PJR

API# 05-045-23813

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 <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	6/5/2018	22:30:00	USER					REQUESTED ON LOCATION @ 04:30
Event	2	Pre-Convoy Safety Meeting	6/6/2018	00:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	6/6/2018	00:15:00	USER					1 HT 400 PUMP TRUCK E4, 1 SUPERFLUSH TRANSPORT, 1 660 BULK TRUCK, 1 450 SERVICE PICKUP
Event	4	Arrive At Loc	6/6/2018	02:30:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	6/6/2018	02:35:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 500, TEMP- 60F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	6/6/2018	02:45:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	6/6/2018	02:50:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	6/6/2018	05:00:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 10 BPM WITH 233 PSI

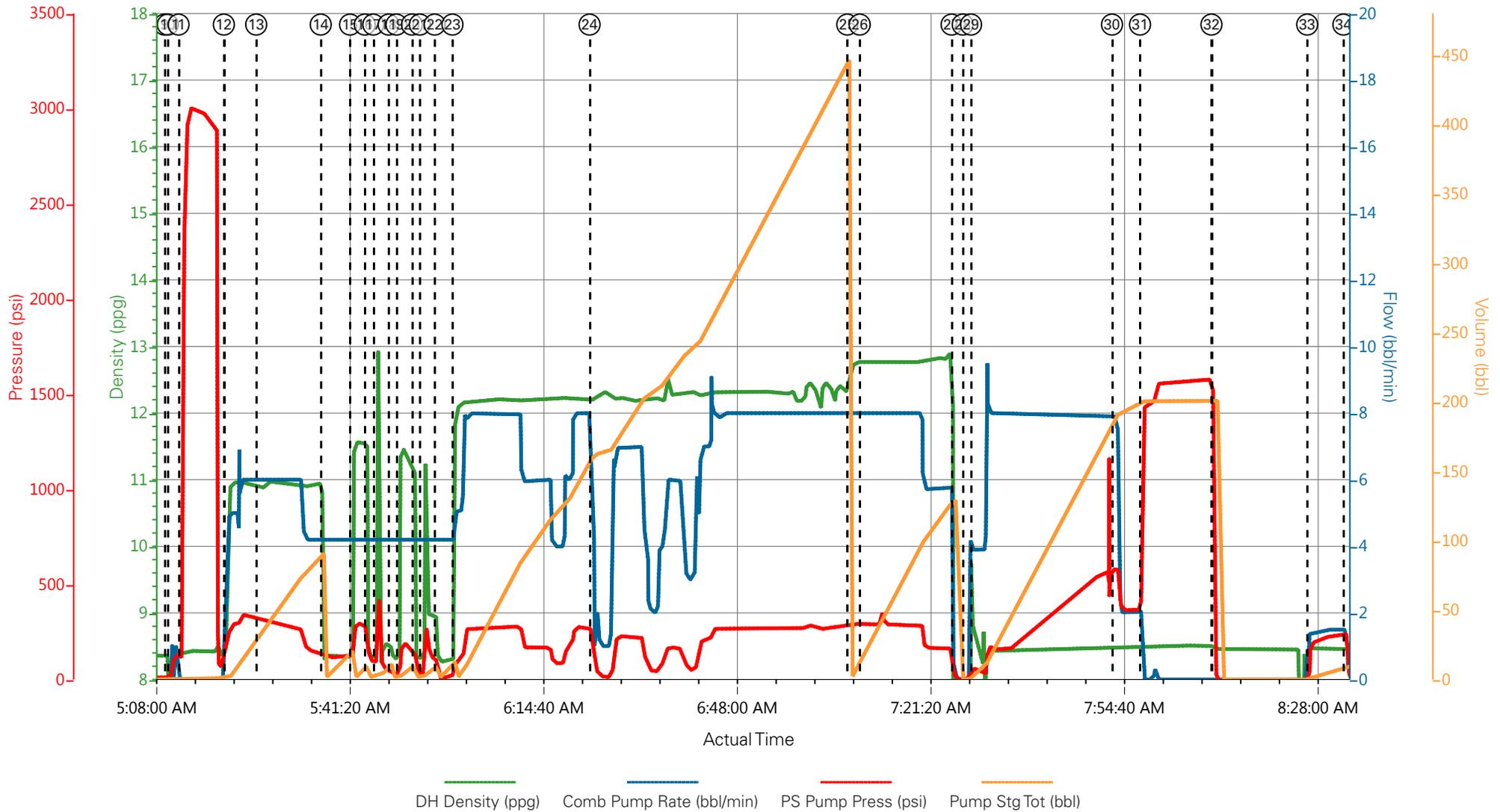
Event	9	Start Job	6/6/2018	05:10:00	COM6					TD 2575', TP 2565', CSG 9 5/8" J-55 36#, SJ 43.65', OH 14 3/4", MUD 8.8 PPG
Event	10	Prime Lines	6/6/2018	05:10:33	USER	8.33	2	140	2	FRESH WATER
Event	11	Test Lines	6/6/2018	05:12:24	COM6			3005		ALL LINES HELD PRESSURE AT 3005 PSI
Event	12	Scavenger	6/6/2018	05:20:12	COM6	11	6	306	75	185 SKS EXTENDACEM CMT 11 PPG, 2.28 FT3/SK, 12.38 GAL/SK
Event	13	Check weight	6/6/2018	05:25:46	COM6					WEIGHT VERIFIED VIA PRISSEREIZED MUD SCALES
Event	14	Pump H2O Spacer	6/6/2018	05:36:53	COM6	8.33	4	127	20	FRESH WATER
Event	15	Super Flush	6/6/2018	05:41:56	COM6	11	4	222	10	10BBLS SUPER FLUSH
Event	16	H2O Spacer	6/6/2018	05:44:28	COM6	8.33	4	94	5	FRESH WATER
Event	17	CC Spacer	6/6/2018	05:45:56	COM6	8.4	4	60	10	10BBLS CALCIUM CHL. WATER
Event	18	H2O Spacer	6/6/2018	05:48:34	COM6	8.33	4	45	5	FRESH WATER
Event	19	Super Flush	6/6/2018	05:49:55	COM6	11	4	119	10	10BBLS SUPER FLUSH
Event	20	H2O Spacer	6/6/2018	05:52:35	COM6	8.33	4	150	5	FRESH WATER
Event	21	CC Spacer	6/6/2018	05:53:57	COM6	8.4	4	100	10	10BBLS CALCIUM CHL. WATER
Event	22	H2O Spacer	6/6/2018	05:56:30	COM6	8.33	4	20	10	FRESH WATER
Event	23	Pump Lead Cement	6/6/2018	05:59:34	COM6	12.3	8	280	428.5	1015 SKS VARICEM CMT 12.3 PPG, 2.37 FT3/SK, 13.74 GAL/SK
Event	24	Slow Rate	6/6/2018	06:23:11	USER					SLOWED DUE TO CELLAR PUMP NOT KEEPING UP
Event	25	Pump Tail Cement	6/6/2018	07:07:33	COM6	12.8	8	300	109.7	292 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK

Event	26	Check weight	6/6/2018	07:09:42	COM6					WEIGHT VERIFIED VIA PRISSEREIZED MUD SCALES
Event	27	Shutdown	6/6/2018	07:25:31	USER					END OF CEMENT,WASH UP ON TOP OF PLUG
Event	28	Drop Top Plug	6/6/2018	07:27:26	USER					VERIFIED BY FLAG INDICATOR
Event	29	Pump Displacement	6/6/2018	07:28:52	COM6	8.33	8	580	195	FRESH WATER
Event	30	Slow Rate	6/6/2018	07:53:09	USER	8.33	2	360	185	SLOW RATE TO 2 BPM TO BUMP PLUG
Event	31	Bump Plug	6/6/2018	07:57:58	USER	8.33	2	380	195	LAND PLUG AT 380 PSI, BROUGHT UP TO 1500 PSI. HELD FOR 10MIN CASING TEST.
Event	32	Check Floats	6/6/2018	08:10:16	USER					FLOATS HELD, 1.5 BBL BACK TO TRUCK
Event	33	Clean Lines	6/6/2018	08:26:45	USER	8.33	2	240	12	PUMPED 12BBLS OF SUGAR WATER DOWN THE PARASITE
Event	34	End Job	6/6/2018	08:33:00	USER					SPARATIC RETURNS ON CEMENT, NO RETURNS ON DISPLACEMENT.USED 40# OF SUGAR. NO CEMENT TO SURFACE.
Event	35	Top Out	6/6/2018	09:30:00	COM6	15.6	1.5	240	12.7	60 SKS G-NEAT CMT 15.6 PPG, 1.19 FT3/SK, 5.24 GAL/SK
Event	36	End Job	6/6/2018	09:50:04	USER					CEMENT TO SURFACE, NOT FALLING BACK.
Event	37	Post-Job Safety Meeting (Pre Rig-Down)	6/6/2018	10:15:00	USER					ALL HES PRESENT
Event	38	Rig-Down Equipment	6/6/2018	10:25:00	USER					ALL HES PRESENT
Event	39	Pre-Convoy Safety Meeting	6/6/2018	11:30:00	USER					ALL HES PRESENT

Event	40	Crew Leave Location	6/6/2018	11:40:00	USER
-------	----	---------------------	----------	----------	------

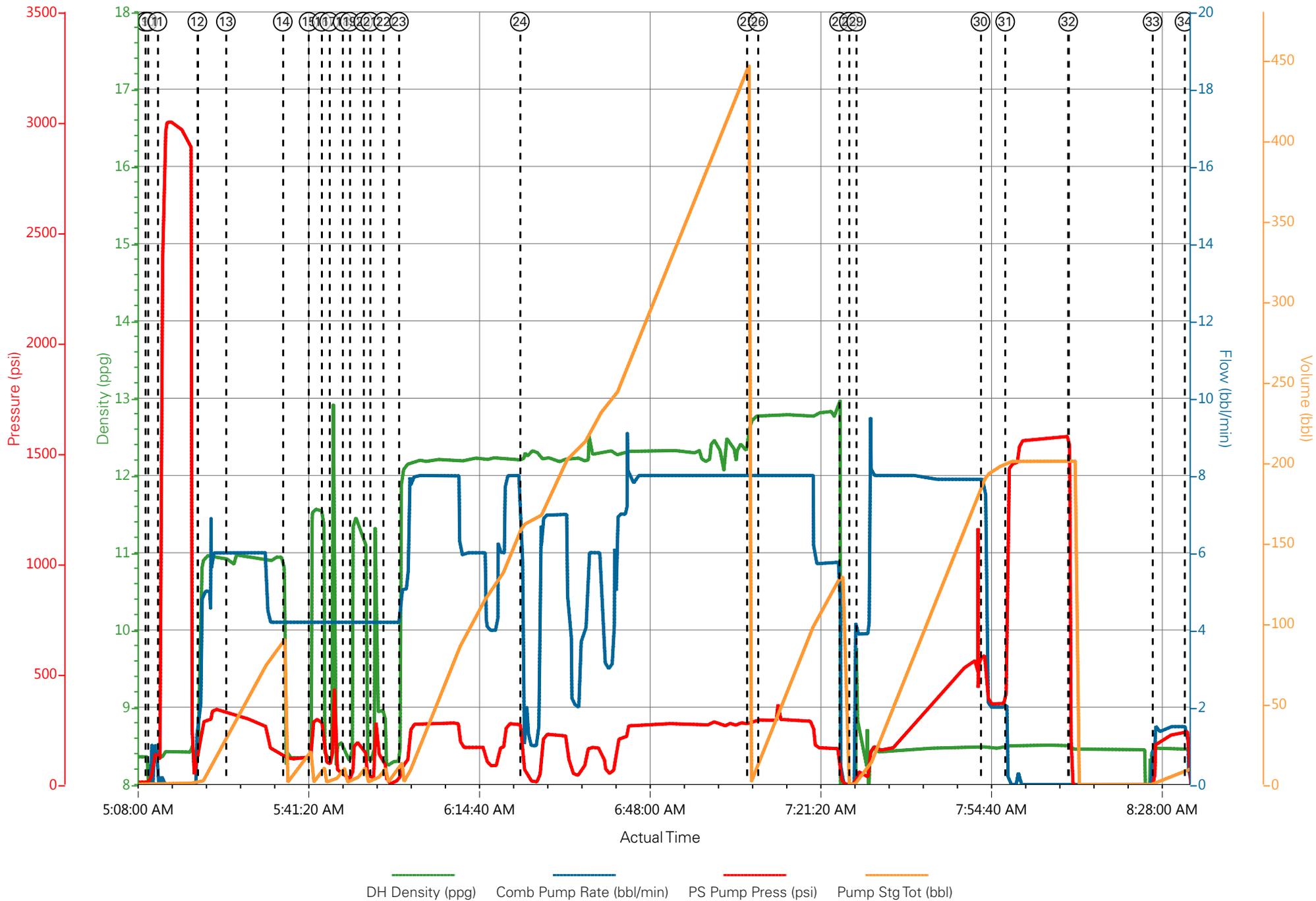
THANK YOU FOR CHOOSING
HALLIBURTON CEMENT,
SHAWN BLOSSOM AND
CREW

LARAMIE CC 0697-03-13E, 9 5/8" SURFACE



- | | | | | | |
|---|--------------------------|---------------|---------------------|----------------------|---|
| ① Call Out | ⑧ Pre-Job Safety Meeting | ⑮ Super Flush | 22 H2O Spacer | 29 Pump Displacement | 36 End Job |
| ② Pre-Convoy Safety Meeting | ⑨ Start Job | ⑯ H2O Spacer | 23 Pump Lead Cement | 30 Slow Rate | 37 Post-Job Safety Meeting (Pre Rig-Down) |
| ③ Crew Leave Yard | ⑩ Prime Lines | ⑰ CC Spacer | 24 Slow Rate | 31 Bump Plug | 38 Rig-Down Equipment |
| ④ Arrive At Loc | ⑪ Test Lines | ⑱ H2O Spacer | 25 Pump Tail Cement | 32 Check Floats | 39 Pre-Convoy Safety Meeting |
| ⑤ Assessment Of Location Safety Meeting | ⑫ Scavenger | ⑲ Super Flush | 26 Check weight | 33 Clean Lines | 40 Crew Leave Location |
| ⑥ Pre-Rig Up Safety Meeting | ⑬ Check weight | 20 H2O Spacer | 27 Shutdown | 34 End Job | |
| ⑦ Rig-Up Equipment | ⑭ Pump H2O Spacer | 21 CC Spacer | 28 DropTop Plug | 35 Top Out | |

LARAMIE CC 0697-03-13E, 9 5/8" SURFACE



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

Job Information

Request/Slurry	2478055/1	Rig Name	H&P 522	Date	30/MAY/2018
Submitted By	Connor Matthews	Job Type	Surface Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Cascade Creek 0697-03-13E

Well Information

Casing/Liner Size	9.625 in	Depth MD	2530 ft	BHST	50°C / 122°F
Hole Size	12.25 in	Depth TVD	2495 ft	BHCT	34°C / 94°F
Pressure	1472 psi				

Drilling Fluid Information

Mud Supplier Name	AMC	Mud Trade Name		Density	
--------------------------	-----	-----------------------	--	----------------	--

Cement Information - Lead Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	<u>Cement Properties</u>		
		VariCem			Tank 9	Slurry Density	12.3	lbm/gal
					NA	Slurry Yield	2.372	ft3/sack
					Tank 15	Water Requirement	13.736	gal/sack
					U052017	Total Mix Fluid	13.736	gal/sack
					2017-8-1			
					Tank 14			
					N/A	Water Source	Fresh Water	
					2017286AC	Water Chloride		
					1710-1339			

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Operation Test Results Request ID 2478055/1

Thickening Time

02/JUN/2018

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
94	1472	19	5	3:31	3:55	4:21	5:02	5:25

Total sks = 1015

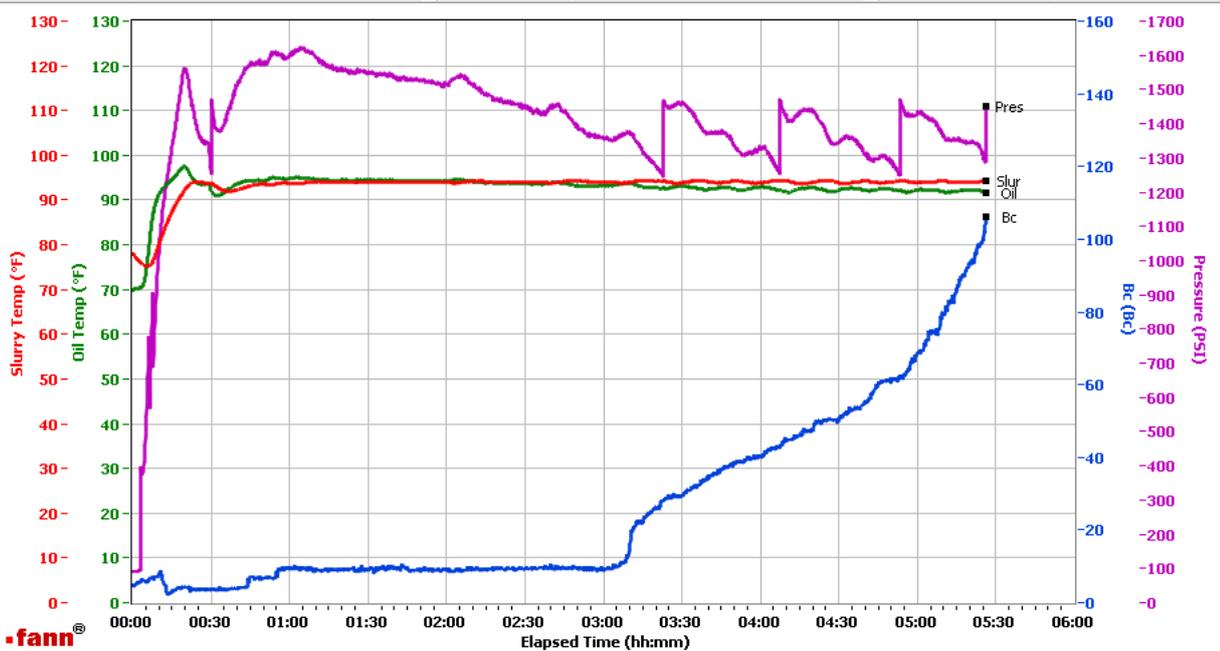
CS1143, Trailer 8678, 435.7 sks

CS1144, Trailer 2878, 435.7 sks

CS1145, Trailer 1513, 435.7 sks

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	2478055-1 LARAMIE BULK SURFACE LEAD	Job Type		30.00 Bc	03h:31m
Test ID	35540075 - TT	Cement Type	GCC TYPE I-II	40.00 Bc	03h:55m
Request ID	2478055-1	Cement Weight	Standard	50.00 Bc	04h:21m
Tested by	CT	Test Date	07/09/11	70.00 Bc	05h:02m
Customer	LARAMIE ENERGY	Test Time	02:53 PM	100.00 Bc	05h:25m
Well No	CASCADE CREEK 0697-03-13E	Temp. Units	degF	00h:30m	3.73
Rig	H&P 522	Pressure Units	PSI	01h:00m	9.14
Casing/Liner Size	9.625 INCH	SW Version	2.1.0.1219	01h:30m	9.09



Data File C:\Documents and Settings\HPHT\Local Settings\Temporary Internet Files\Content.IE5\6J6B21WN\2478055-1 LARAMIE BULK SURFACE LEAD[1].tdms

Comments CS1143, TRAILER 8678, 435.7 SKS - CS1144, TRAILER 2878, 435.7 SKS - CS1145 TR 1513 435.7 SKS

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Job Information

Request/Slurry	2478056/1	Rig Name	H&P 522	Date	30/MAY/2018
Submitted By	Connor Matthews	Job Type	Surface Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Cascade Creek 0697-03-13E

Well Information

Casing/Liner Size	9.625 in	Depth MD	2530 ft	BHST	50°C / 122°F
Hole Size	12.25 in	Depth TVD	2495 ft	BHCT	34°C / 94°F
Pressure	1472 psi				

Drilling Fluid Information

Mud Supplier Name	AMC	Mud Trade Name		Density	
--------------------------	-----	-----------------------	--	----------------	--

Cement Information - Tail Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	<u>Cement Properties</u>		
		VariCem				Slurry Density	12.8	lbm/gal
						Slurry Yield	2.107	ft3/sack
						Water Requirement	11.748	gal/sack
						Total Mix Fluid	11.748	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Operation Test Results Request ID 2478056/1

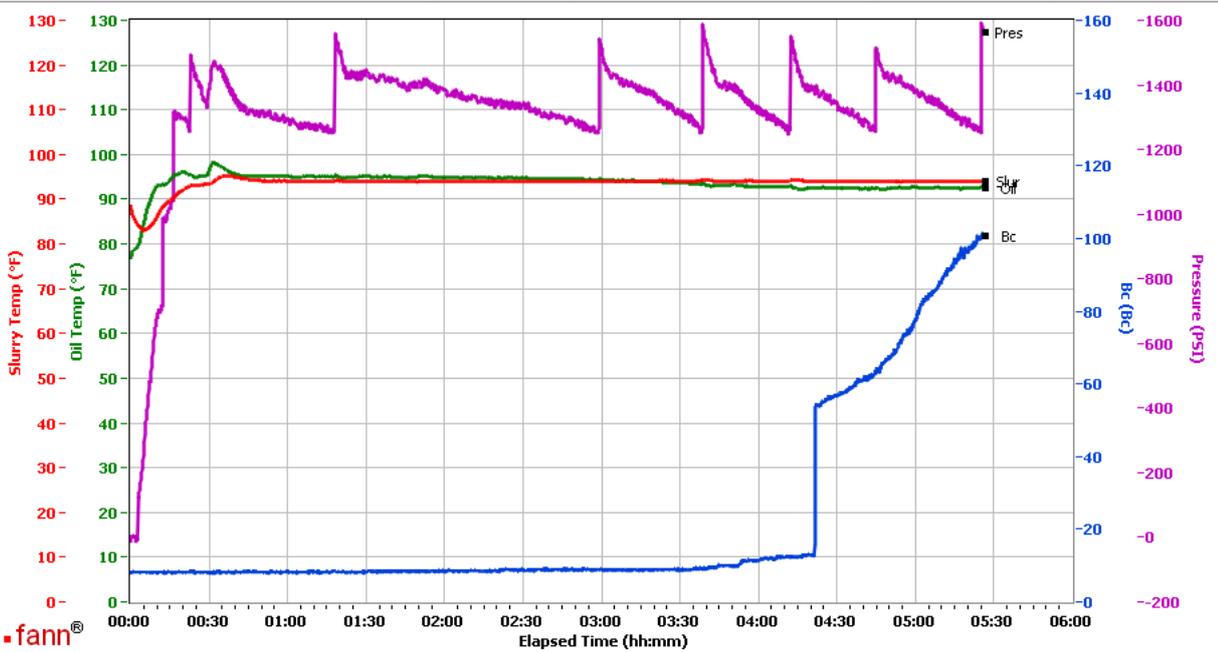
Thickening Time

02/JUN/2018

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
94	1472	19	8	4:21	4:21	4:21	4:53	5:23

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2478056-1 LARAMIE SURFACE BULK TAIL	Job Type	SURFACE	30.00 Bc	04h:21m
Test ID	35540077	Cement Type	GCC TYPE I-II	40.00 Bc	04h:21m
Request ID	2478056-1	Cement Weight	Light Weight	50.00 Bc	04h:21m
Tested by	JASON	Test Date	06/01/18	70.00 Bc	04h:53m
Customer	LARAMIE ENERGY	Test Time	04:45 PM	100.00 Bc	05h:23m
Well No	CC 0697-03-13E	Temp. Units	degF	00h:30m	7.75
Rig	H&P 522	Pressure Units	PSI	01h:00m	8.72
Casing/Liner Size	9.625 INCH	SW Version	2.1.0.507	01h:30m	8.03



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\CDER4HUJ\GJ2478056-1 LARAMIE SURFACE BULK TAIL [1].tdms

Comments C51145 TR 1513 435.7 SKS

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

HALLIBURTON

iCem[®] Service

LARAMIE ENERGY II LLC

Date: Sunday, June 10, 2018

Cascade Creek 0697-03-13E

API# 05-045-23813-00

Laramie Cascade Creek 0697-03-13E Production

Job Date: Sunday, June 10, 2018

Sincerely,

Grand Junction Cement Engineering

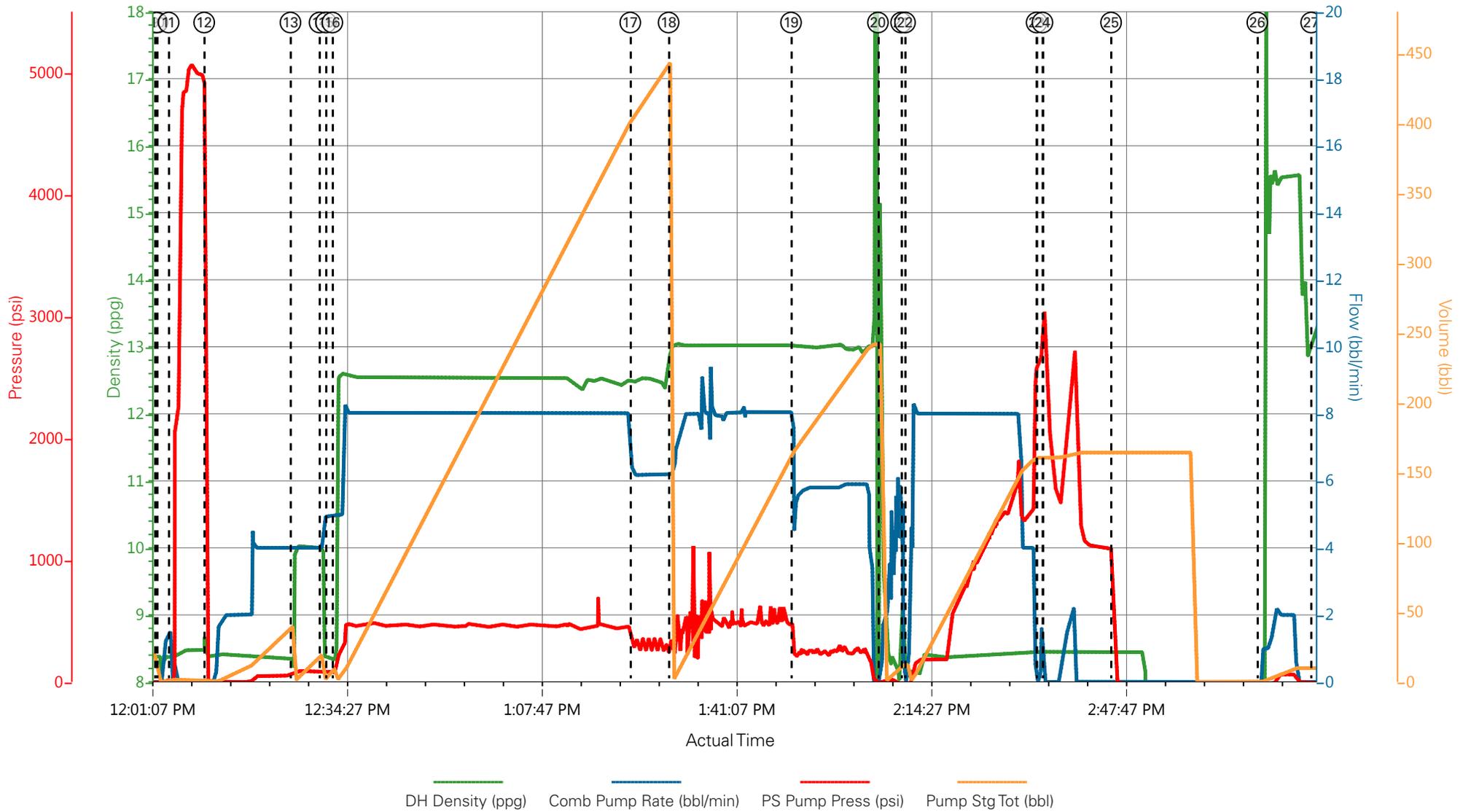
1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	6/10/2018	03:00:00	USER					REQUESTED ON LOCATION @ 09:00
Event	2	Pre-Convoy Safety Meeting	6/10/2018	04:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	6/10/2018	05:00:00	USER					1 HT 400 PUMP TRUCK E4, 1 660 BULK TRUCK, 1 TRANSPORT, 1 450 SERVICE PICKUP
Event	4	Arrive At Loc	6/10/2018	07:00:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	6/10/2018	07:05:00	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- 62F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	6/10/2018	07:10:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	6/10/2018	07:15:00	USER					HES RIGGED UP 1 HT400 PUMP TRUCK, 1 660 BULK TRUCK, 2 CEMENT SILOS, 1 TRANSPORT, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	6/10/2018	11:50:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 9 BPM PRIOR TO JOB PRESSURE @ 75PSI. WITH 2000CFM ON PARASITE
Event	9	Start Job	6/10/2018	12:02:06	COM6					TD 9807', TP 9797' OF 4 1/2" 11.6# P110 CSG, SJ 86.75', SURFACE CSG 9 5/8" 36# J55 SET @ 2565', OH 8 3/4", MUD 8.8 PPG
Event	10	Prime Lines	6/10/2018	12:02:30	USER	8.33	2	30	2	8.33 PPG FRESH WATER
Event	11	Test Lines	6/10/2018	12:04:26	COM6			5090		ALL LINES HELD PRESSURE AT 5090 PSI
Event	12	Mud Flush	6/10/2018	12:10:31	COM6	8.4	4	55	40	40 BBL MUD FLUSH

Event	13	Super Flush	6/10/2018	12:25:17	COM6	10	4	100	20	20 BBLs OF SUPER FLUSH
Event	14	Pump H2O Spacer	6/10/2018	12:30:16	COM6	8.33	4	90	10	10 BBLs OF FRESH WATER
Event	15	Drop Bottom Plug	6/10/2018	12:31:22	COM6					VERIFIED BY PLUG INDICATOR
Event	16	Pump Lead Cement	6/10/2018	12:32:27	COM6	12.5	8	480	406	1175 SKS OF NEOCEM CMT 12.5 PPG, 1.94 FT3/SK, 9.59 GAL/SK.
Event	17	Slow Rate	6/10/2018	13:23:27	USER					SLOWED TO END LEAD SILO
Event	18	Pump Tail Cement	6/10/2018	13:30:00	COM6	13	8	500	186.2	505 SKS NEOCEM CMT 13. PPG, 2.07 FT3/SK, 9.42 GAL/SK.
Event	19	Slow Rate	6/10/2018	13:50:58	USER					SLOWED TO END CEMENT
Event	20	Clean Pumps And Lines	6/10/2018	14:05:50	COM6					END OF CEMENT. CLEAN PUMPS AND LINES TO CELLAR.
Event	21	Drop Top Plug	6/10/2018	14:09:48	COM6					VERIFIED BY PLUG INDICATOR
Event	22	Pump Displacement	6/10/2018	14:10:28	COM6	8.33	8	1715	140.5	1 GAL MMCR IN FIRST 10 BBLs, 5 GALS CLAY WEB THROUGHOUT DISPLACEMENT. SLOWED RATE AT 140.5BBLs GONE TO 4BPM TO BUMP PLUG.
Event	23	Bump Plug	6/10/2018	14:33:00	COM6	8.33	4	1480	150.5	LANDED PLUG AT 1480 PSI, BROUGHT UP TO 3000 PSI
Event	24	Casing Test	6/10/2018	14:34:00	COM6			3000		PRESSURED UP TO 3000PSI FOR CASING TEST. PRESSURE DID NOT HOLD. PRESSURE LEVELED OUT AT 1200PSI
Event	25	Check Floats	6/10/2018	14:45:44	USER					FLOATS HELD, .5 BBL BACK TO TRUCK
Event	26	Pump Cement	6/10/2018	15:10:46	COM6					PUMPED 7.5BBLs OF TOP OUT DOWN THE PARASITE STRING .35 SKS OF G-NEAT CMT 15.6 PPG, 1.19 FT3/SK, 5.24 GAL/SK.
Event	27	End Job	6/10/2018	15:20:00	COM6					RETURNS THROUGH CEMENT WITH 1500CFM ON PARASITE. LOTS RETURNERS ON DISPLACEMENT AFTER SHUTTING OFF AIR, NO SPACER TO SURFACE. 40# OF SUGAR USED.
Event	28	Post-Job Safety Meeting (Pre Rig-Down)	6/10/2018	15:25:00	USER					ALL HES PRESENT
Event	29	Rig-Down Equipment	6/10/2018	15:30:00	USER					ALL HES PRESENT
Event	30	Pre-Convoy Safety Meeting	6/10/2018	16:15:00	USER					ALL HES PRESENT
Event	31	Crew Leave Location	6/10/2018	16:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM & CREW

LARAMIE CC 0697-03-13E, 4.5" PRODUCTION



- | | | | | |
|---|--------------------------|--------------------------|---|------------------------------|
| ① Call Out | ⑧ Pre-Job Safety Meeting | ⑮ Drop Bottom Plug | 22 Pump Displacement | 29 Rig-Down Equipment |
| ② Pre-Convoy Safety Meeting | ⑨ Start Job | ⑯ Pump Lead Cement | 23 Bump Plug | 30 Pre-Convoy Safety Meeting |
| ③ Crew Leave Yard | ⑩ Prime Lines | ⑰ Slow Rate | 24 Casing Test | 31 Crew Leave Location |
| ④ Arrive At Loc | ⑪ Test Lines | ⑱ Pump Tail Cement | 25 Check Floats | |
| ⑤ Assessment Of Location Safety Meeting | ⑫ Mud Flush | ⑲ Slow Rate | 26 Pump Cement | |
| ⑥ Pre-Rig Up Safety Meeting | ⑬ Super Flush | 20 Clean Pumps And Lines | 27 End Job | |
| ⑦ Rig-Up Equipment | ⑭ Pump H2O Spacer | 21 Drop Top Plug | 28 Post-Job Safety Meeting (Pre Rig-Down) | |

▼ **HALLIBURTON** | iCem® Service

Created: 2018-06-10 04:05:57, Version: 4.2.393

Edit

Customer: LARAMIE ENERGY II LLC EBUSINESS

Job Date: 6/10/2018

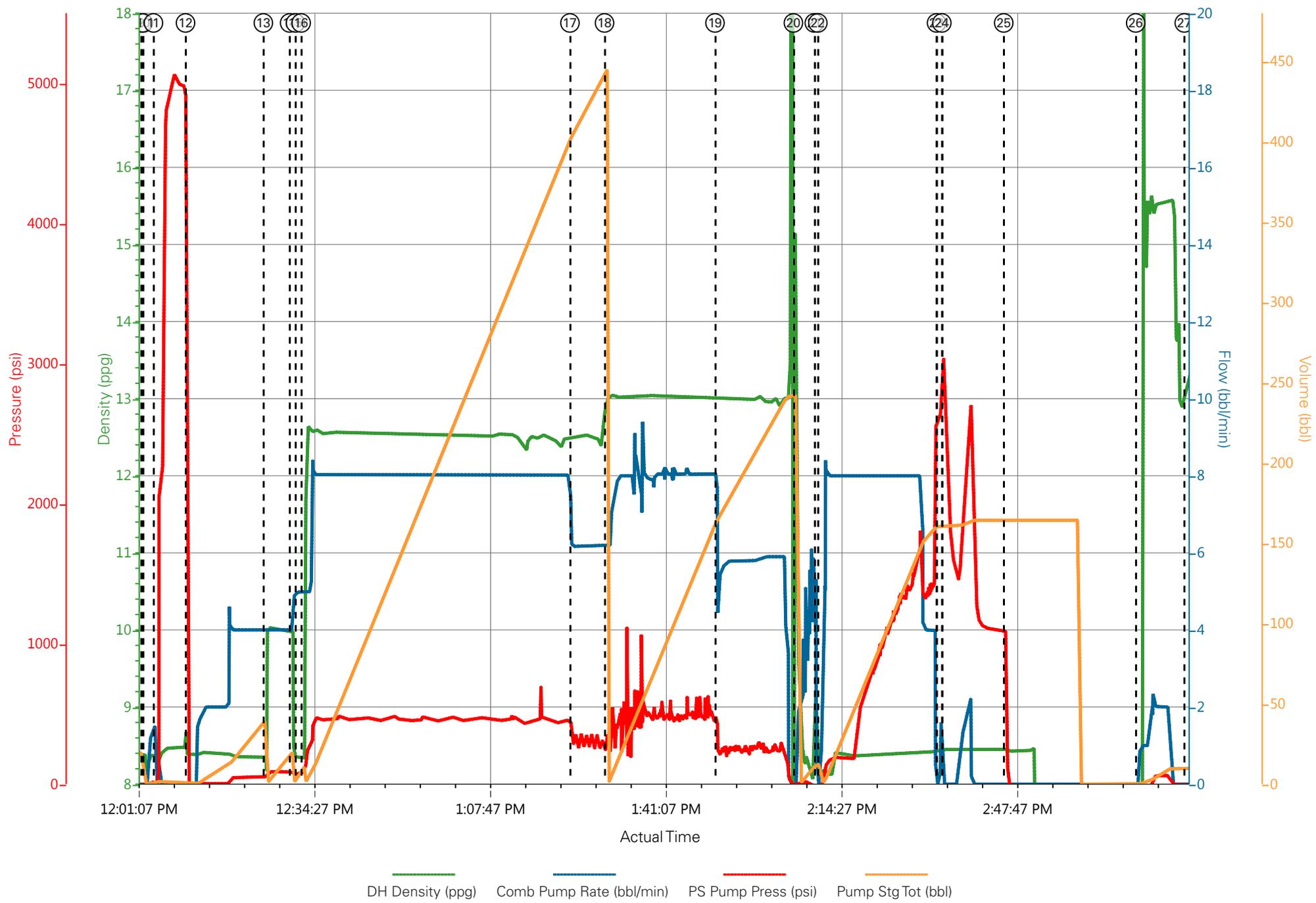
Well: CC 697-03-13E

Representative: SHANE HEARD

Sales Order #: 904911576

ELITE 8: J.LEIST/S.BLOSSOM

LARAMIE CC 0697-03-13E, 4.5" PRODUCTION



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

Job Information

Request/Slurry	2479469/2	Rig Name	H&P 522	Date	05/JUN/2018
Submitted By	Connor Matthews	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Cascade Creek 0697-03-13E

Well Information

Casing/Liner Size	4.5 in	Depth MD	9842 ft	BHST	118°C / 245°F
Hole Size	8.75 in	Depth TVD	9723 ft	BHCT	79°C / 175°F
Pressure	6106 psi				

Drilling Fluid Information

Mud Supplier Name		Mud Trade Name		Density	
--------------------------	--	-----------------------	--	----------------	--

Cement Information - Lead Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	<u>Cement Properties</u>		
		NeoCem				Slurry Density	12.5	lbm/gal
						Slurry Yield	1.946	ft ³ /sack
						Water Requirement	9.615	gal/sack
						Total Mix Fluid	9.615	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Operation Test Results Request ID 2479469/2

Thickening Time - ON-OFF-ON

08/JUN/2018

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
175	6106	49	3:55	4:26	4:48	4:48	18	59	15	20

Total SKS = 1214

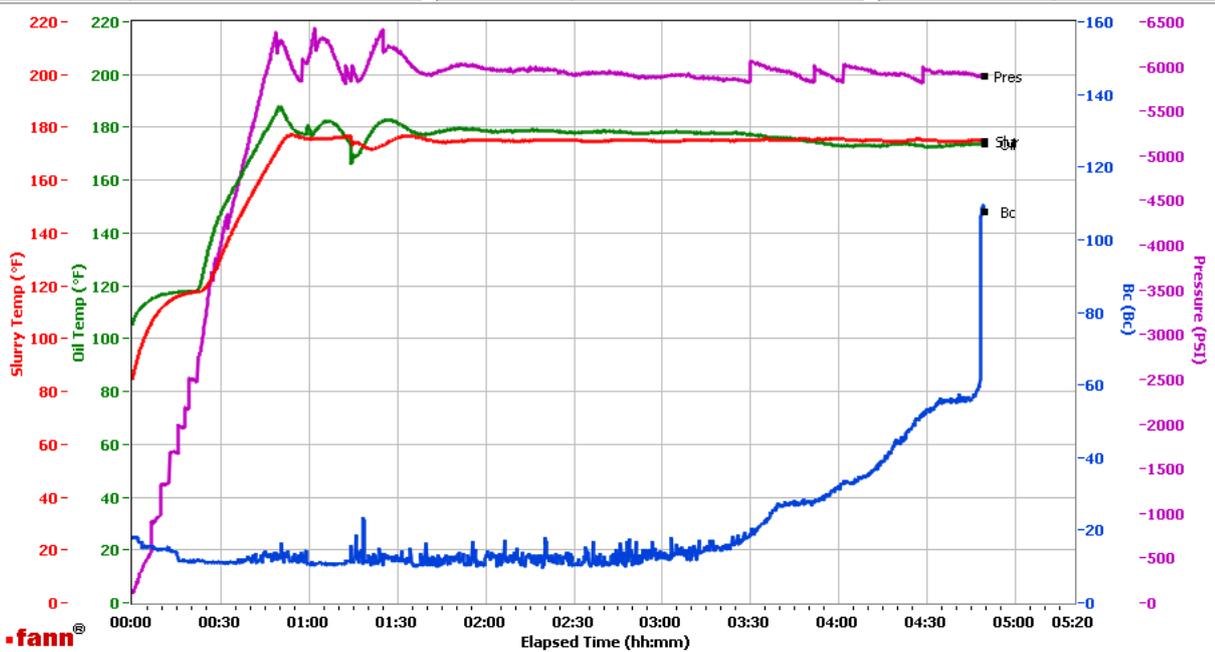
CS1179, Trailer 8678, 400 sks

CS1186, Trailer 7094, 275 sks

Deflection: 11 - 20

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	G32479469-2 LARAMIE BULK PRODUCTION	Job Type	PRODUCTION CASING	30.00 Bc	03h:55m
Test ID	35562231 - TT	Cement Type	GCC TYPE I-II	40.00 Bc	04h:15m
Request ID	2479469-2	Cement Weight	Standard	50.00 Bc	04h:26m
Tested by	CT	Test Date	06/08/18	70.00 Bc	04h:48m
Customer	LARAMIE ENERGY	Test Time	02:14 AM	100.00 Bc	04h:48m
Well No	CASCADE CREEK 0697-03-13E	Temp. Units	degF	00h:30m	11.17
Rig	H&P 522	Pressure Units	PSI	01h:00m	10.82
Casing/Liner Size	4.5 INCH	SW Version	2.1.0.507	01h:30m	12.49



Data File C:\Documents and Settings\Administrator\Local Settings\Temporary Internet Files\Content.IE5\AFGSUB25\G32479469-2 LARAMIE BULK PRODUCTION LEAD[1].tdms

Comments CS1179, TRAILER 8678, 400 SKS - CS1186, TRAILER 7094, 275 SKS

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Operation Test Results Request ID 2479469/1

Thickening Time - ON-OFF-ON

07/JUN/2018

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
175	6106	49	3:55	4:39	4:54	5:57	9	59	15	12

Total SKS = 1214

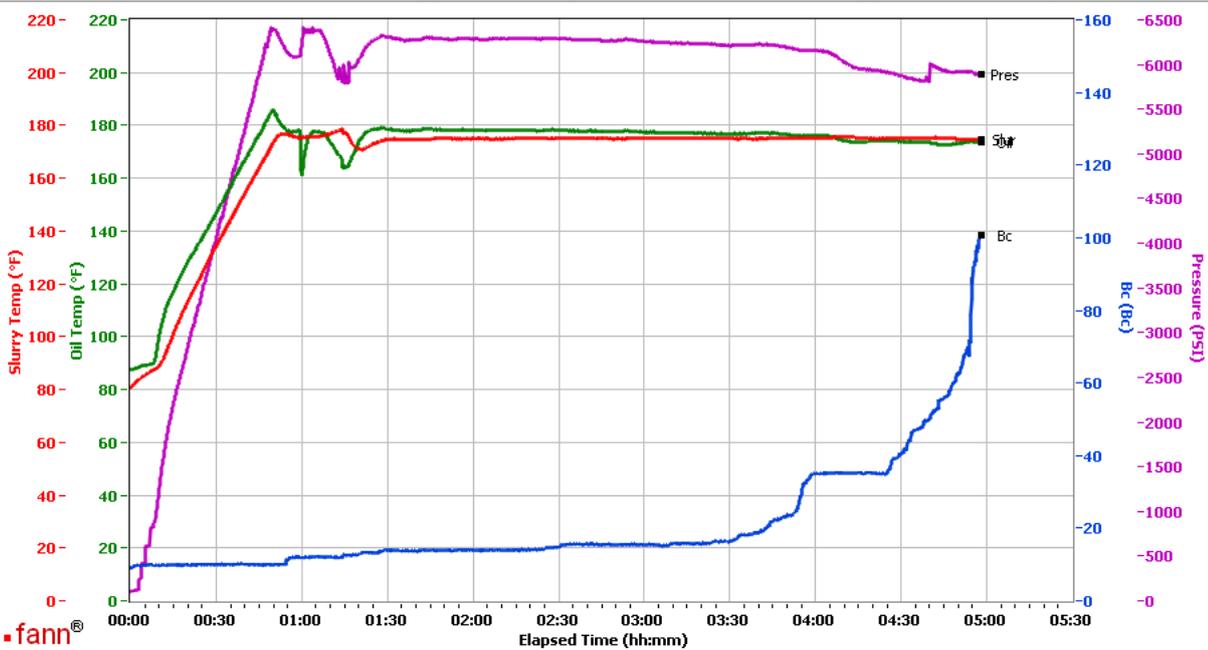
CS1197, Trailer 8677, 400 sks

CS1182, Trailer 7304, 100 sks - Front Pod

Deflection: 12 - 12

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2479469-1 LARAMIE PRODUCTION BULK	Job Type	PRODUCTION CASING	30.00 Bc	03h:55m
Test ID	35561956	Cement Type	GCC TYPE I-II	40.00 Bc	04h:29m
Request ID	GJ2479469-1	Cement Weight	Standard	50.00 Bc	04h:39m
Tested by	DEBA	Test Date	06/07/18	70.00 Bc	04h:54m
Customer	LARAMIE ENERGY	Test Time	09:56 PM	100.00 Bc	04h:57m
Well No	CC 0697-03-13E	Temp. Units	degF	00h:30m	10.14
Rig	H8P 522	Pressure Units	PSI	01h:00m	12.08
Casing/Liner Size	4.5"	SW Version	2.1.0.507	01h:30m	13.97



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\0HU90BIZ\GJ2479469-1 LARAMIE PRODUCTION BULK LEAD[1].tdms

Comments CS1177 TR#8677 400 SKS AND CS1182 TR#7304 100 SKS

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Job Information

Request/Slurry	2479470/1	Rig Name	H&P 522	Date	05/JUN/2018
Submitted By	Connor Matthews	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Cascade Creek 0697-03-13E

Well Information

Casing/Liner Size	4.5 in	Depth MD	9842 ft	BHST	118°C / 245°F
Hole Size	8.75 in	Depth TVD	9723 ft	BHCT	79°C / 175°F
Pressure	6106 psi				

Drilling Fluid Information

Mud Supplier Name		Mud Trade Name		Density	
--------------------------	--	-----------------------	--	----------------	--

Cement Information - Tail Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem				Slurry Density	13	lbm/gal
						Slurry Yield	2.069	ft ³ /sack
						Water Requirement	9.417	gal/sack
						Total Mix Fluid	9.417	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Operation Test Results Request ID 2479470/1

Thickening Time - ON-OFF-ON

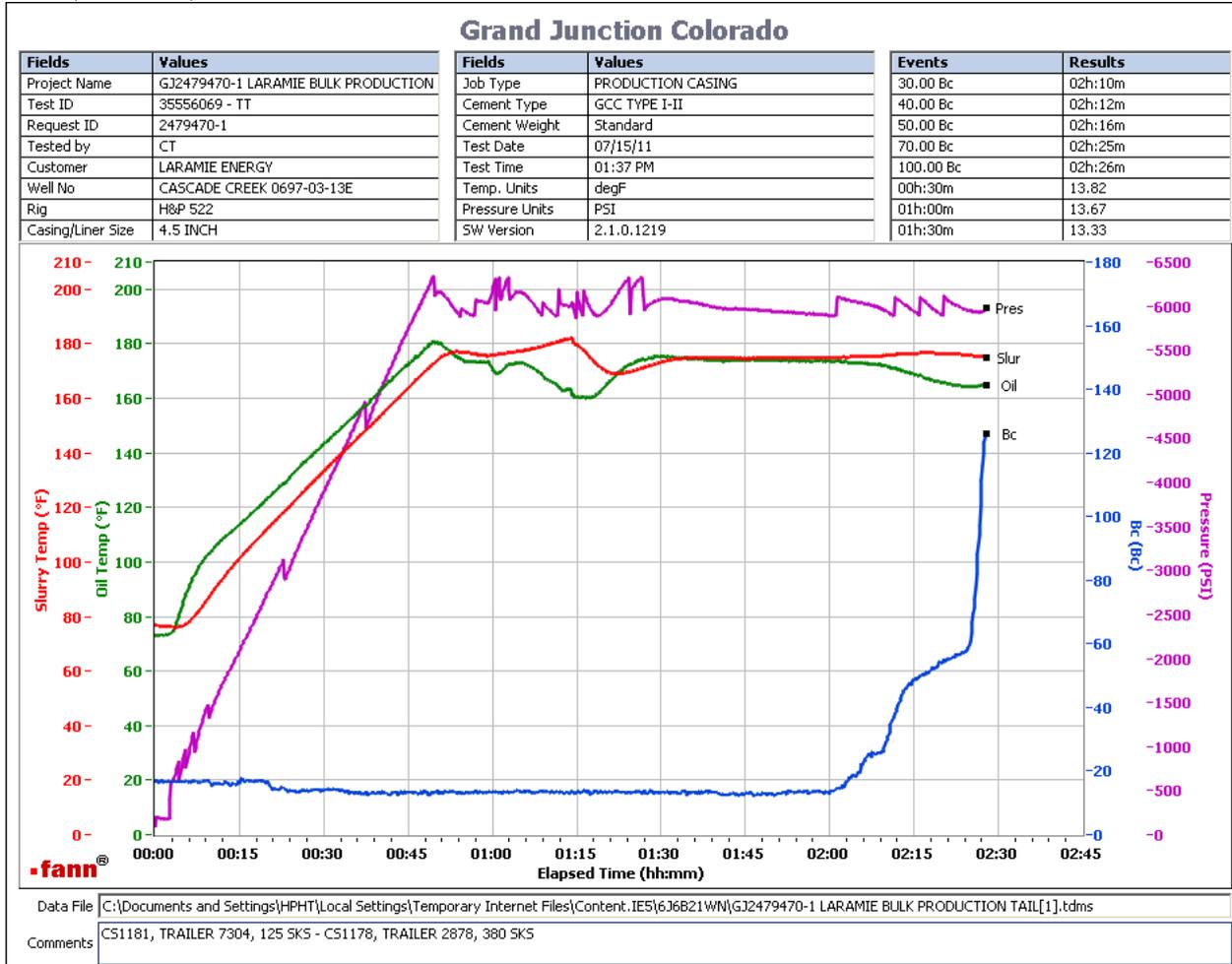
07/JUN/2018

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
175	6106	49	2:10	2:16	2:25	2:26	17	59	15	13

Total SKS = 505

CS1181, Trailer 7304, 125 sks

CS1178, Trailer 2878, 380 sks



This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.