

HALLIBURTON

iCem[®] Service

LARAMIE ENERGY II LLC

For: Laramie

Date: Monday, October 23, 2017

BRUTON 30-10E Surface

API#05-077-10456

Sincerely,

Grand Junction Cement Engineering

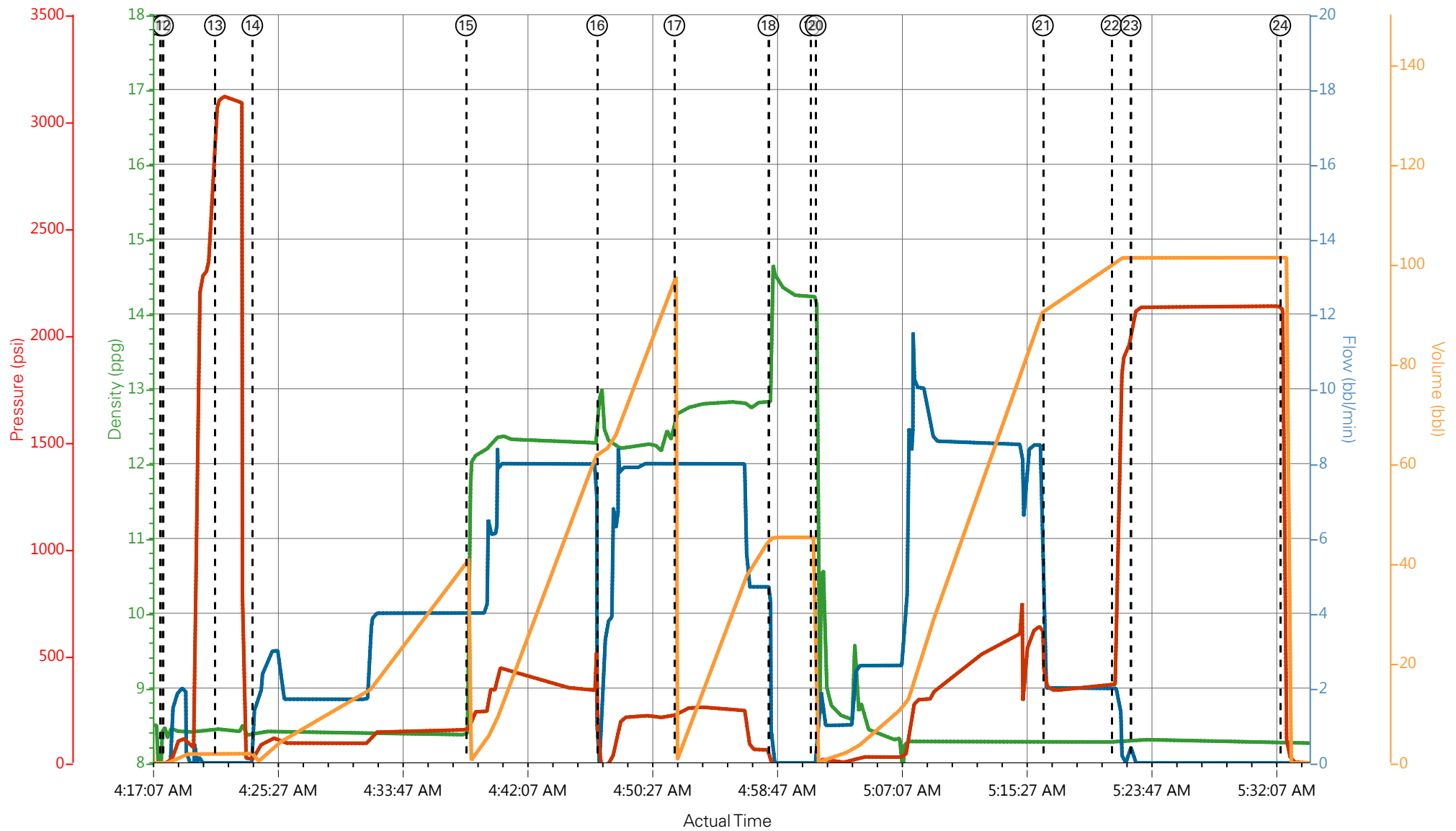
2.0 Real-Time Job Summary

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	10/22/2017	21:00:00	USER					ON LOCATION REQUESTED 3:00
Event	2	Pre-Convoy Safety Meeting	10/22/2017	23:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	10/23/2017	00:15:00	USER					
Event	4	Arrive at Location from Service Center	10/23/2017	02:45:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	10/23/2017	02:55:00	USER					MET WITH COMPANY REP DISCUSSED JOB PROCEDURE, SDS OFFERED
Event	6	Pre-Rig Up Safety Meeting	10/23/2017	03:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	10/23/2017	03:40:00	USER					1-ELITE, 1-660 BULK TRAILER, 8.625" QL, 2" PUMP IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	10/23/2017	03:50:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Other	10/23/2017	04:00:00	USER					WATER: TEMP-50, PH-7, CL-0
Event	10	Start Job	10/23/2017	04:17:09	COM5	8.41	0.00	3.00	0.0	TD-1566', TP-1560.1', SET AT 1555.1', SJ-44.7', CSG-8.625" 24# J55, OH-11", MUD-9.1PPG
Event	11	Drop Bottom Plug	10/23/2017	04:17:48	USER	8.40	0.00	5.00	0.0	BOTTOM PLUG AWAY
Event	12	Prime Pumps	10/23/2017	04:18:00	COM5	8.41	2.00	112.00	2.0	FRESH WATER
Event	13	Test Lines	10/23/2017	04:21:27	COM5	8.45	0.00	3086.00	2.0	ALL PRESSURE HELD
Event	14	Pump Spacer 1	10/23/2017	04:23:57	COM5	8.37	4.00	131.00	40.0	FRESH WATER
Event	15	Pump Lead Cement	10/23/2017	04:38:13	COM5	12.30	8.00	463.00	86.3	VARICEM LEAD 197SK, 12.3PPG, 2.46CF/SK, 14.17GAL/SK

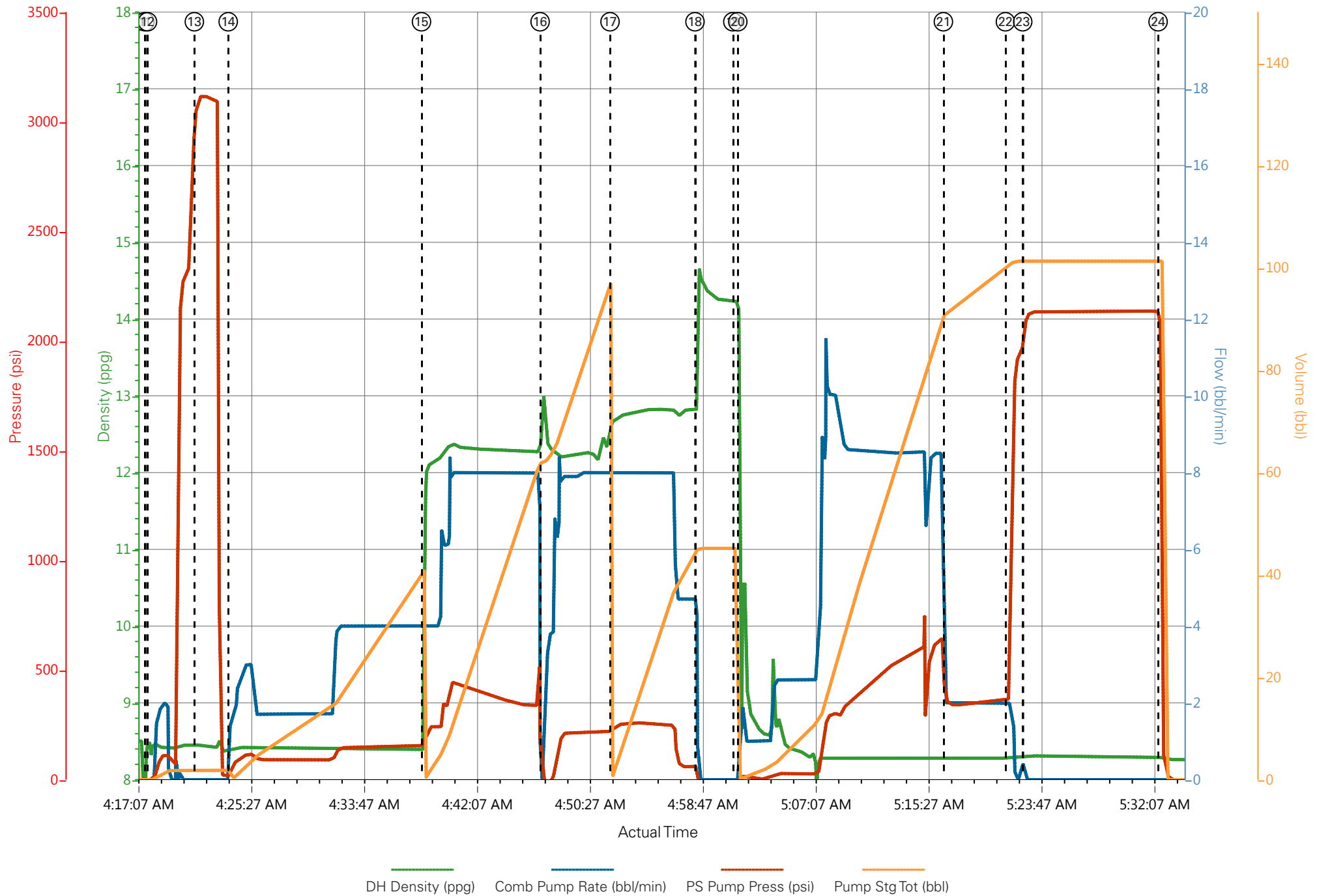
Event	16	Bottom Plug Landed	10/23/2017	04:46:58	USER					BOTTOM PLUG RUPTURED
Event	17	Pump Tail Cement	10/23/2017	04:52:08	COM5	12.80	8.00	335.00	42.3	VARICEM TAIL, 109SKS, 12.8PPG, 2.18CF/SK, 12.11GAL/SK
Event	18	Shutdown	10/23/2017	04:58:24	USER					WASHED UP ON TOP OF PLUG
Event	19	Drop Top Plug	10/23/2017	05:01:12	COM5					PLUG AWAY
Event	20	Pump Displacement	10/23/2017	05:01:34	COM5	8.35	8.50	640.00	96.4	FRESH WATER
Event	21	Slow Rate	10/23/2017	05:16:44	USER	8.28	2.00	323.00	86.0	SLOW RATE LAST 10 BBLS
Event	22	Bump Plug	10/23/2017	05:21:19	COM5	8.28	2.00	363.00	96.4	PLUG BUMPED 363 PSI
Event	23	Casing Test	10/23/2017	05:22:36	COM5	8.31	0.00	2139.00	96.4	10 MINUTE CASING TEST
Event	24	Check Floats	10/23/2017	05:32:36	USER	8.29	0.00	2139.00	96.4	FLOATS HELD 1 BBL BACK
Event	25	End Job	10/23/2017	05:35:28	COM5					GOOD RETURNS THROUGH OUT JOB, 36 BBLS CEMENT TO SURFACE
Event	26	Post-Job Safety Meeting (Pre Rig-Down)	10/23/2017	05:38:00	USER					ALL HES PRESENT
Event	27	Rig-Down Completed	10/23/2017	06:15:00	USER					
Event	28	Pre-Convoy Safety Meeting	10/23/2017	06:30:00	USER					ALL HES PRESENT
Event	29	Crew Leave Location	10/23/2017	06:40:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

LARAMIE - BRUTON 30-10E - 8.625" SURFACE



- ① Call Out
- ② Pre-Convoy Safety Meeting
- ③ Crew Leave Yard
- ④ Arrive at Location from Service Center
- ⑤ Assessment Of Location Safety Meeting
- ⑥ Pre-Rig Up Safety Meeting
- ⑦ Rig-Up Completed
- ⑧ Pre-Job Safety Meeting
- ⑨ Other
- ⑩ Start Job
- ⑪ Drop Bottom Plug
- ⑫ Prime Pumps
- ⑬ Test Lines
- ⑭ Pump Spacer

LARAMIE - BRUTON 30-10E - 8.625" SURFACE



HALLIBURTON

iCem[®] Service

LARAMIE ENERGY LLC-EBUS

For: Laramie

Date: Thursday, October 26, 2017

BRUTON 30-10E Production

API# 05-077-10456

Sincerely,

Grand Junction Cement Engineering

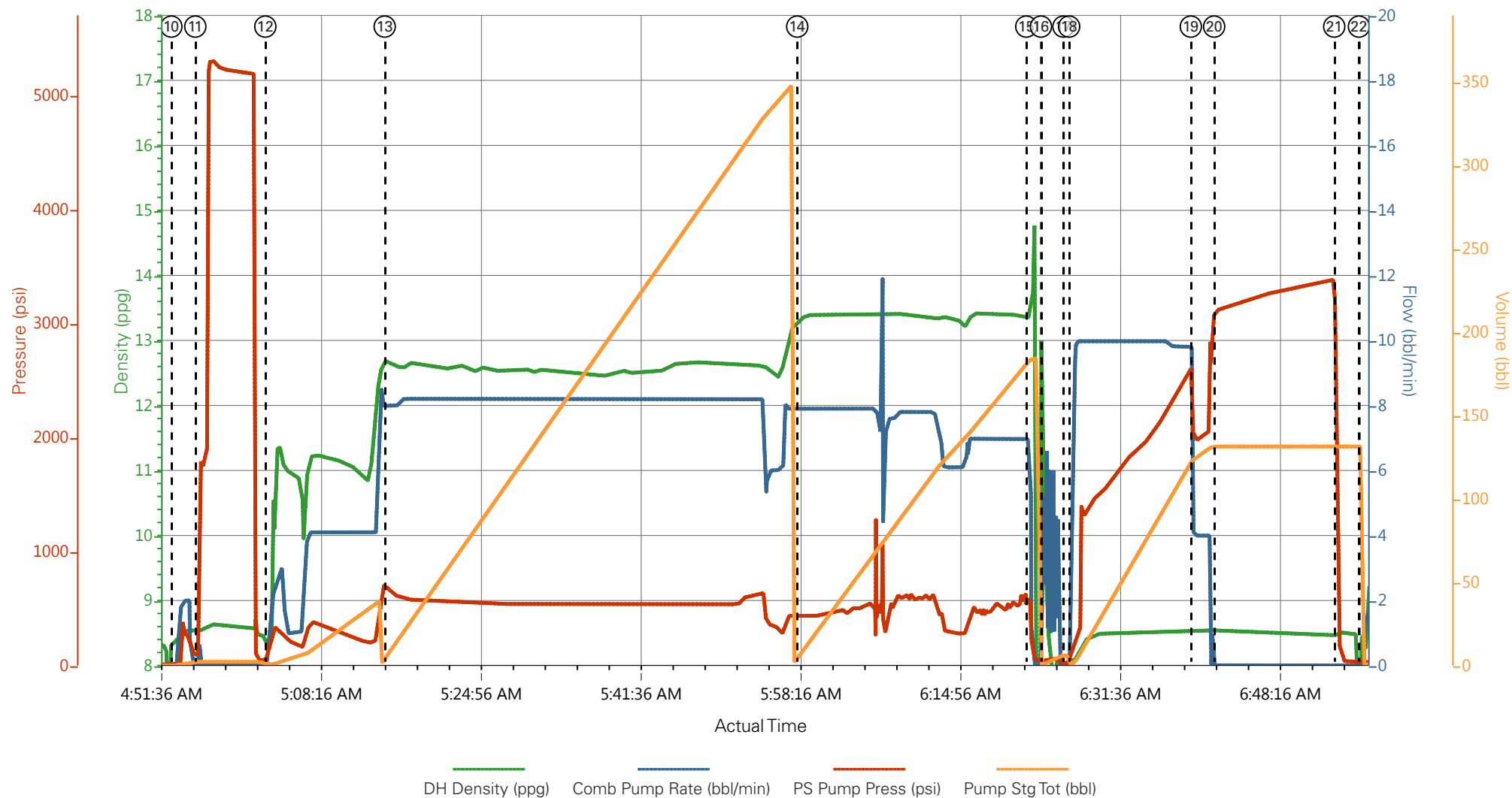
2.0 Real-Time Job Summary

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	10/25/2017	19:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	10/25/2017	21:55:00	USER					
Event	3	Crew Leave Yard	10/25/2017	22:00:00	USER					
Event	4	Arrive At Loc	10/25/2017	23:30:00	USER					
Event	5	Assessment Of Location Safety Meeting	10/25/2017	23:35:00	USER					
Event	6	Spot Equipment	10/25/2017	23:45:00	USER					
Event	7	Pre-Rig Up Safety Meeting	10/25/2017	23:55:00	USER					
Event	8	Rig-Up Equipment	10/26/2017	00:00:00	USER					
Event	9	Pre-Job Safety Meeting	10/26/2017	04:45:00	USER					
Event	10	Start Job	10/26/2017	04:53:00	COM5					TD 8305', TP 8296', SJ 78.5', 4 1/2" CASING IN 7 7/8 OPEN HOLE, MUD 9.1 PPG, WATER TEMP 54, PH 6.5, CHLORIDES 0, SULFATES <200, POTASSIUM 450
Event	11	Test Lines	10/26/2017	04:55:29	COM5			5000.00		TEST LINES TO 5000 PSI
Event	12	Pump Spacer 1	10/26/2017	05:02:48	COM5	11.0	4.00	350.00	40.0	40 BBL TUNED SPACER @ 11 PPG, 4.86 YLD, 31.9 GAL/SK H2O REQ, 350 PSI, BOTTOM PLUG AWAY
Event	13	Pump Lead Cement	10/26/2017	05:15:15	COM5	12.5	8.00	550.00	8.0	306.8 BBL, 888 SKS @ 12.5 PPG, 1.94 YLD, 9.6 GAL/SK H2O REQ, 550 PSI
Event	14	Pump Tail Cement	10/26/2017	05:58:16	COM5	13.3	8.00	520.00	7.4	142 BBL, 461 SKS @13.3 PPG, 1.73 YLD, 7.81 GAL/SK H2O REQ

Event	15	Shutdown	10/26/2017	06:22:09	USER					
Event	16	Clean Lines	10/26/2017	06:23:41	COM5					
Event	17	Drop Top Plug	10/26/2017	06:26:01	COM5					PLUG AWAY
Event	18	Pump Displacement	10/26/2017	06:26:37	COM5	8.33	10.00	1850.0	127.4	127.4 BBL FRESH WATER W/ 1 GAL MMCR, 5 GAL CLAWEB, 1850 PSI
Event	19	Slow Rate	10/26/2017	06:39:18	USER	8.33	4.00	2620.0	117.0	SLOW AT 117 BBL AWAY, 2620 PSI
Event	20	Bump Plug	10/26/2017	06:41:44	COM5	8.33	4.00	3122.00	127.4	PLUG BUMPED, 10 MIN CASING TEST @ 3000 PSI
Event	21	Check Floats	10/26/2017	06:54:16	USER					FLOATS HELD, 1.5 BBL BACK
Event	22	End Job	10/26/2017	06:56:50	COM5					GOOD CIRCULATION THROUGHOUT JOB, PIPE LEFT STATIC, 13 BBL SPACER TO SURFACE, 20 LBS SUGAR USED, NO ADD HOURS CHARGED
Event	23	Pre-Rig Down Safety Meeting	10/26/2017	07:00:00	USER					
Event	24	Rig-Down Equipment	10/26/2017	07:05:00	USER					
Event	25	Pre-Convoy Safety Meeting	10/26/2017	07:55:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, CO - ANTHONY ANDREWS AND CREW
Event	26	Crew Leave Location	10/26/2017	08:00:00	USER					

LARAMIE - BRUTON 30-10E - 4 1/2" PRODUCTION



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|---|--------------------------|---------------------|--------------------------------|
| ① Call Out | ⑧ Rig-Up Equipment | ⑮ Shutdown | 22 End Job |
| ② Pre-Convoy Safety Meeting | ⑨ Pre-Job Safety Meeting | ⑯ Clean Lines | 23 Pre-Rig Down Safety Meeting |
| ③ Crew Leave Yard | ⑩ Start Job | ⑰ Drop Top Plug | 24 Rig-Down Equipment |
| ④ Arrive At Loc | ⑪ Test Lines | ⑱ Pump Displacement | 25 Pre-Convoy Safety Meeting |
| ⑤ Assessment Of Location Safety Meeting | ⑫ Pump Spacer 1 | ⑲ Slow Rate | 26 Crew Leave Location |
| ⑥ Spot Equipment | ⑬ Pump Lead Cement | 20 Bump Plug | |
| ⑦ Pre-Rig Up Safety Meeting | ⑭ Pump Tail Cement | 21 Check Floats | |

▼ **HALLIBURTON** | iCem® Service

Created: 2017-10-25 23:57:21, Version: 4.2.393

Edit

Customer: LARAMIE ENERGY LLC-EBUS

Job Date: 10/26/2017 12:39:03 AM

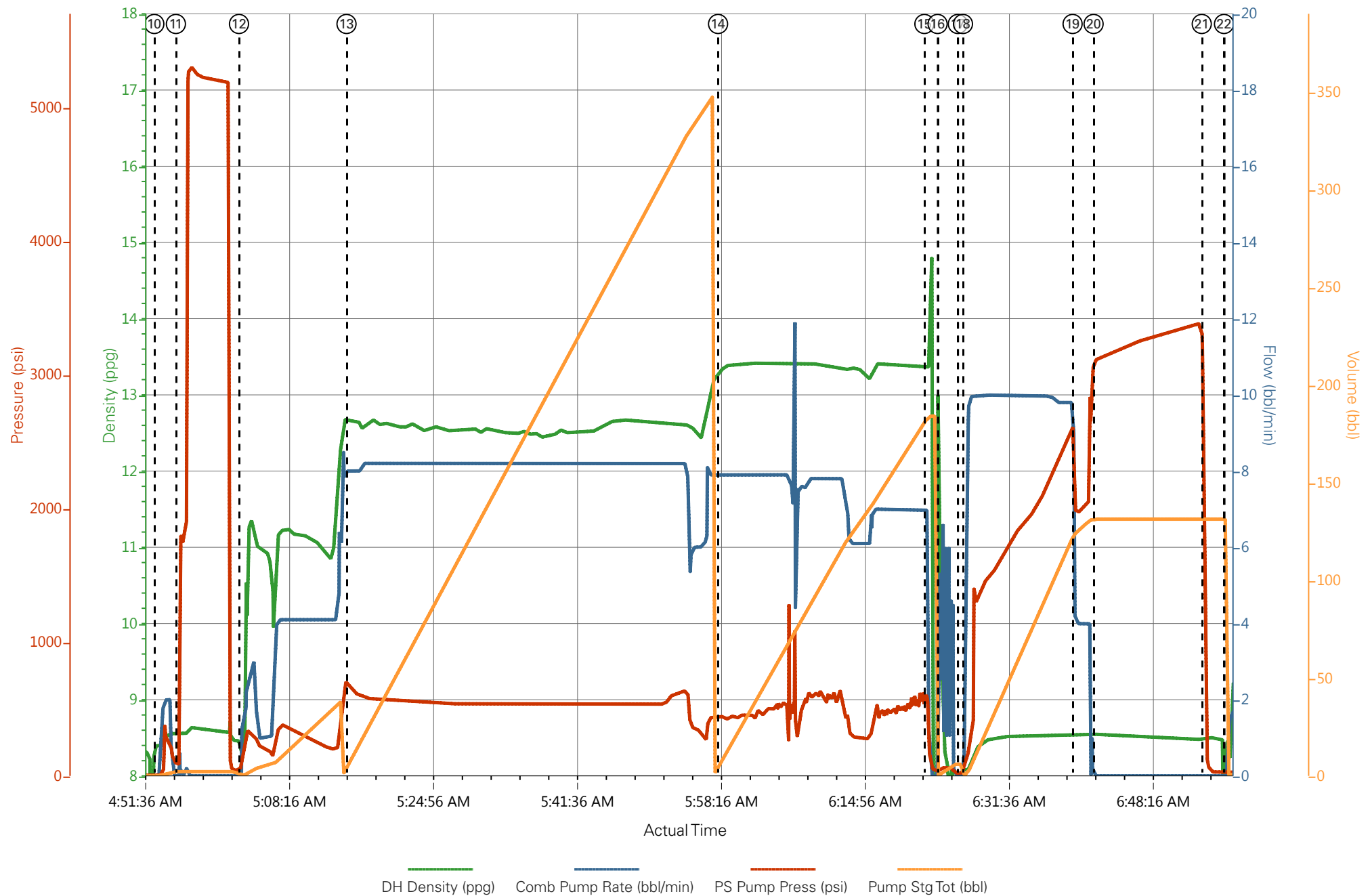
Well: BRUTON 30-10E

Representative: SHANE HEARD

Sales Order #: 904390250

ELITE 4: TRAVIS BROWN / ANTHONY ANDREWS

LARAMIE - BRUTON 30-10E - 4 1/2" PRODUCTION



HALLIBURTON

Rockies, Grand Junction

Lab Results- Lead

Job Information

Request/Slurry	2425985/1	Rig Name	H&P 522	Date	23/OCT/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Bruton 30-10E

Well Information

Casing/Liner Size	4.5 in	Depth MD	8336 ft	BHST	115°C / 239°F
Hole Size	7.875 in	Depth TVD	7694 ft	BHCT	77°C / 171°F
Pressure	4686 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	9.9 lbm/gal
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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>	Cement Properties		
		NeoCem Lead				Slurry Density	12.5	lbm/gal
						Slurry Yield	1.941	ft3/sack
						Water Requirement	9.623	gal/sack
						Total Mix Fluid	9.623	gal/sack
						Water Source	Field (Fresh) Water	
						Water Chloride		

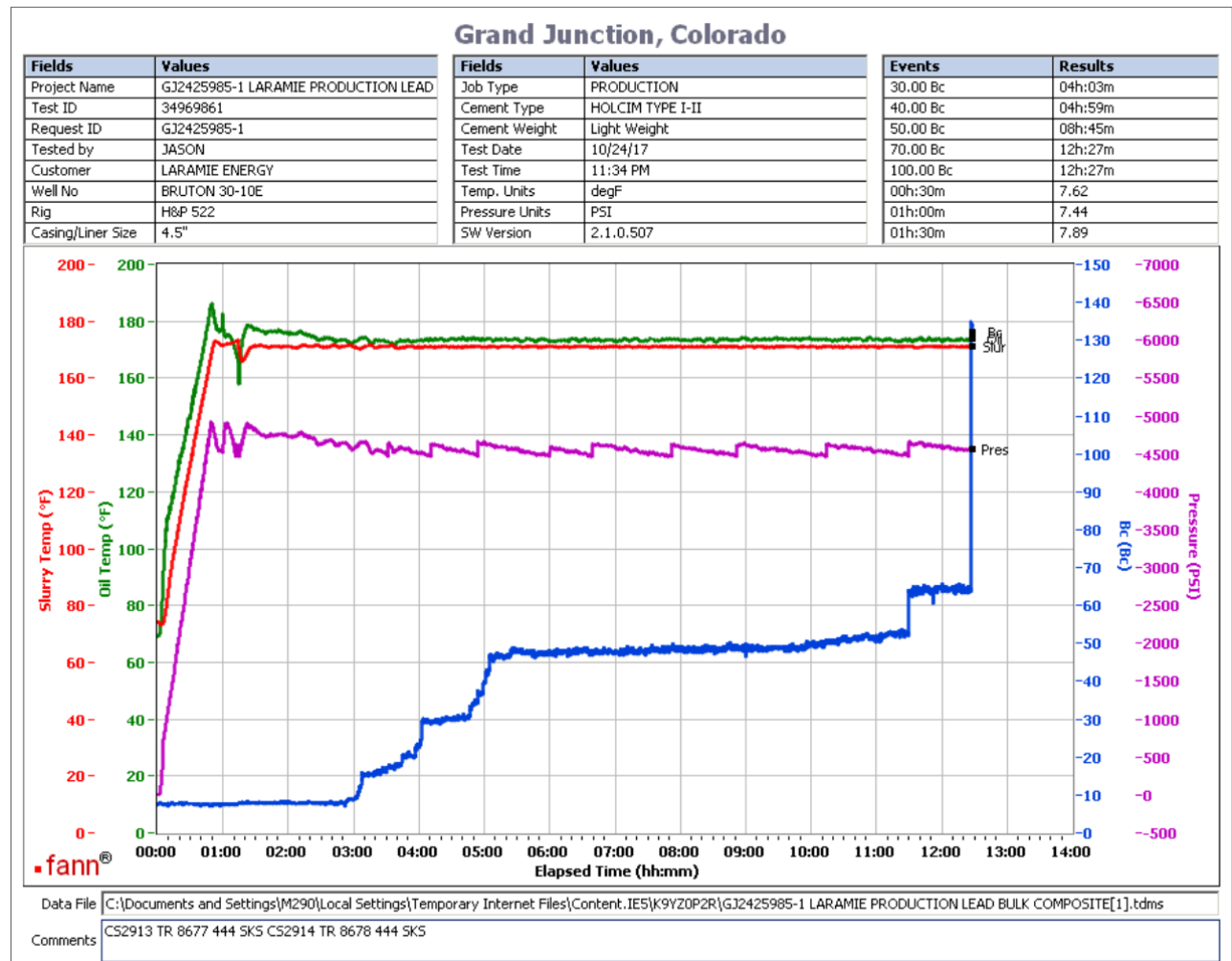
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Operation Test Results Request ID 2425985/1

Thickening Time - ON-OFF-ON

25/OCT/2017

Test Temp (°F)	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)
171	4686	49	4:03	8:45	12:27	7	59	15	8



Total sks = 888

Composite:

CS2913 TR 8677 444 SKS

CS2914 TR 8678 444 SKS

Deflection: 8 - 8

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Job Information

Request/Slurry	2425986/1	Rig Name	H&P 522	Date	23/OCT/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Bruton 30-10E

Well Information

Casing/Liner Size	4.5 in	Depth MD	8336 ft	BHST	115°C / 239°F
Hole Size	7.875 in	Depth TVD	7694 ft	BHCT	77°C / 171°F
Pressure	4686 psi				

Drilling Fluid Information

Mud Supplier Name		Mud Trade Name		Density	9.9 lbm/gal
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Cement Information - Tail Design



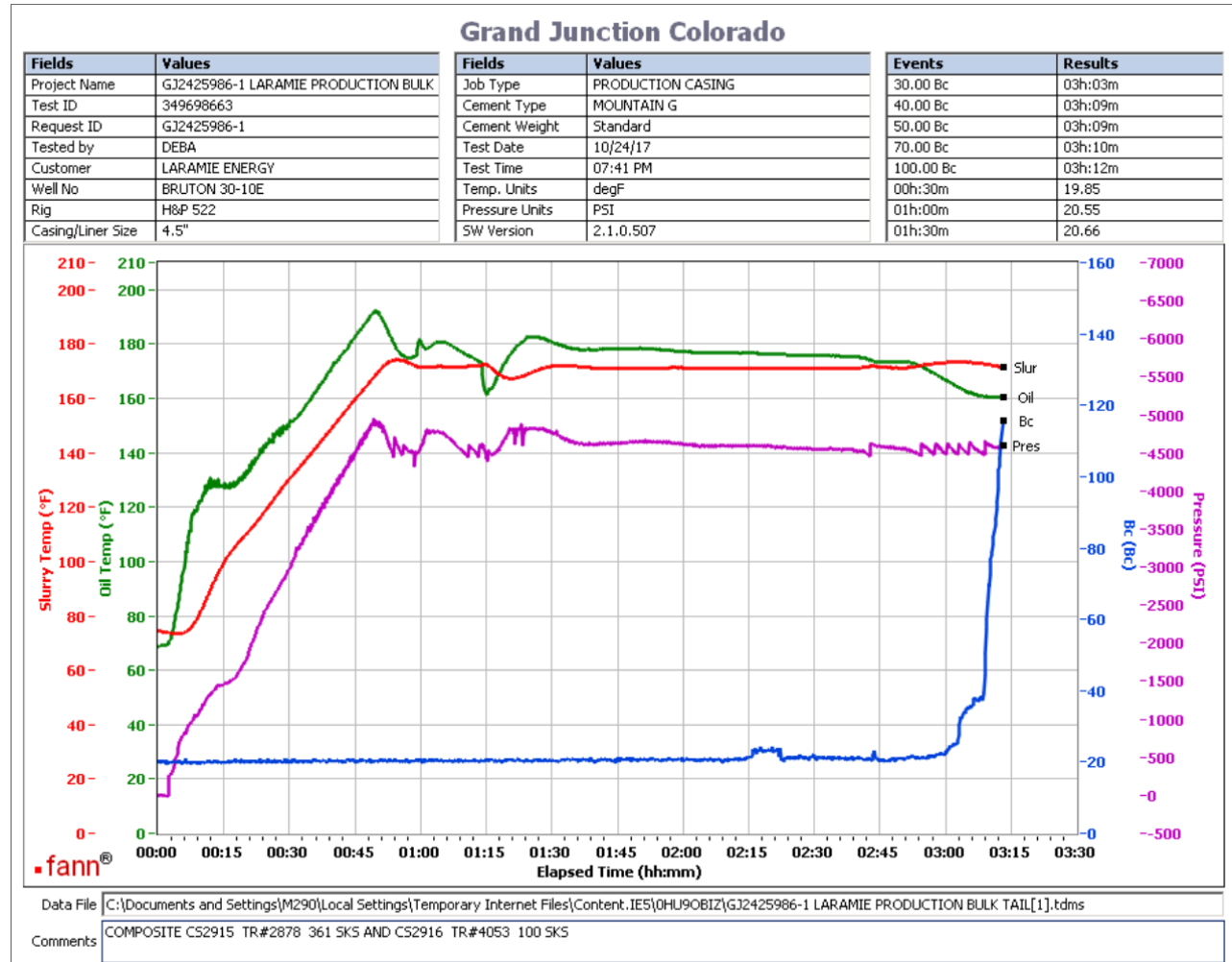
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		ThermaCem Tail				Slurry Density	13.3	lbm/gal
						Slurry Yield	1.733	ft3/sack
						Water Requirement	7.799	gal/sack
						Total Mix Fluid	7.799	gal/sack
						Water Source	Field (Fresh) Water	
						Water Chloride		

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Thickening Time - ON-OFF-ON

25/OCT/2017

Test Temp (°F)	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)
171	4686	49	3:03	3:09	3:10	3:12	20	59	15	20



Total sks = 461
 Composite:
 CS2915 TR#2878 361 SKS
 CS2916 TR#4053 100 SKS
 Deflection: 20 - 20

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