

HALLIBURTON

iCem[®] Service

LARAMIE ENERGY II LLC EBUSINESS

For: Laramie Energy

Date: Monday, April 17, 2017

PICEANCE 29-22E Surface PJR

API# 05-077-10361-00

Sincerely,
Grand Junction Cement Engineering

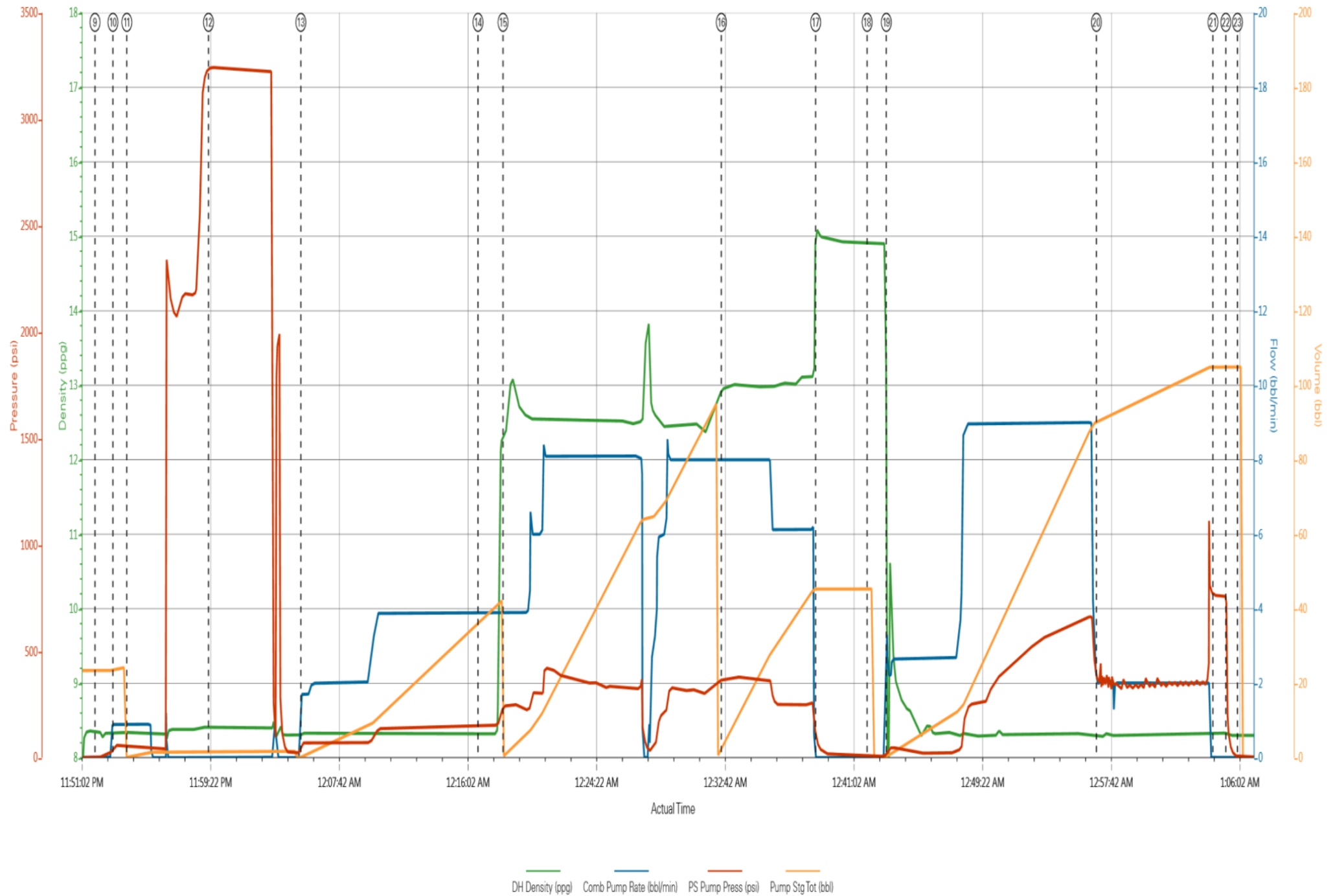
1.0 Real-Time Job Summary

1.1 Job Event Log

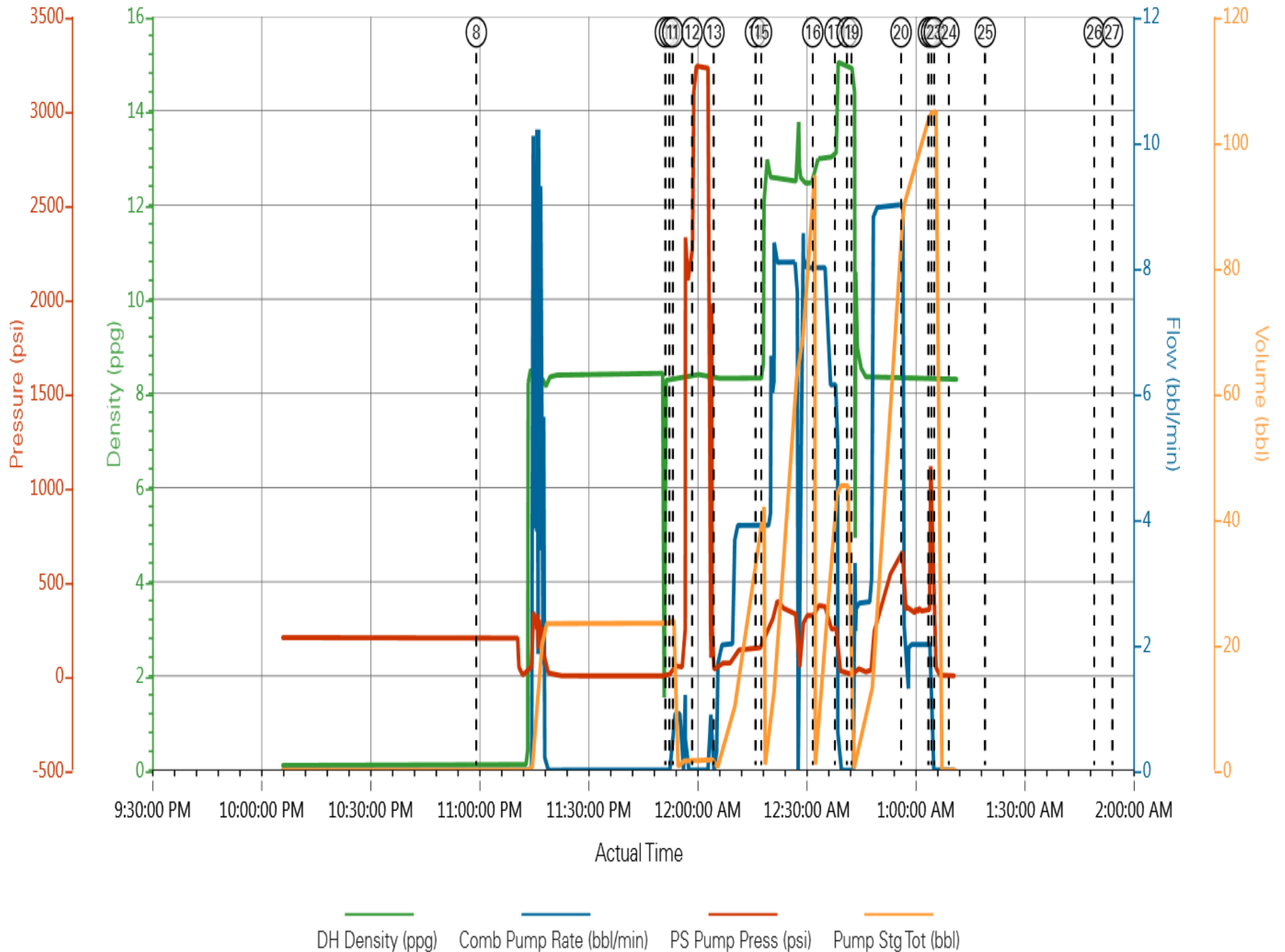
Type	Seq. No.	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	4/16/2017	16:45:00	USER					REQUESTED ON LOCATION @ 2030
Event	2	Pre-Convoy Safety Meeting	4/16/2017	19:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	4/16/2017	19:15:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive At Loc	4/16/2017	20:30:00	USER					RIG MAKING UP SHOE TRACK
Event	5	Assessment Of Location Safety Meeting	4/16/2017	20:45:00	USER					MET WITH COMP REP, MATT, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 55F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	4/16/2017	21:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	4/16/2017	21:15:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	4/16/2017	23:00:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	4/16/2017	23:52:00	USER					TD 1556', TP 1556', SJ 43.5', OH 11", CSG 8.625" 24#, MUD 9.2 PPG. RIG CIRCULATED WELL @ APPROX 10 BPM FOR 1 HR.
Event	10	Fill Lines	4/16/2017	23:53:09	USER	52.00	8.33	0.90	23.7	8.33 PPG FRESH WATER
Event	11	Drop Bottom Plug	4/16/2017	23:54:03	USER	54.00	8.34	0.90	0.2	PLUG WENT
Event	12	Test Lines	4/16/2017	23:59:21	COM6	3241.00	8.40	0.00	1.5	ALL LINES HELD PRESSURE AT 3242 PSI
Event	13	Pump Spacer 1	4/17/2017	00:05:19	COM6	70.00	8.32	1.70	0.3	8.33 PPG FRESH WATER (40BBL)
Event	14	Check Weight	4/17/2017	00:16:48	USER	148.00	8.32	3.90	36.4	WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Lead Cement	4/17/2017	00:18:25	COM6	242.00	12.33	3.90	0.7	VARICEM CEMENT 197 SKS (86 BBLs), 12.3 PPG, 2.46 FT3/SK, 14.17 GAL/SK
Event	16	Pump Tail Cement	4/17/2017	00:32:34	COM6	367.00	12.95	8.00	3.3	VARICEM CEMENT 109 SKS (42 BBLs), 12.8 PPG, 2.18 FT3/SK, 12.11

GAL/SK.										
Event	17	Shutdown	4/17/2017	00:38:40	USER					END OF CEMENT
Event	18	Drop Top Plug	4/17/2017	00:42:00	USER					PLUG WENT, WASH UP PUMPS AND LINES ON TOP OF PLUG
Event	19	Pump Displacement	4/17/2017	00:43:15	COM6	35.00	8.33	2.20	0.5	8.34 PPG FRESH WATER (96.3 BBLs)
Event	20	Slow Rate	4/17/2017	00:56:51	USER	360.00	8.31	2.00	90.4	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	21	Bump Plug	4/17/2017	01:04:22	USER	766.00	8.33	0.00	104.9	LAND PLUG AT 377 PSI, BROUGHT UP TO 766 PSI
Event	22	Check Floats	4/17/2017	01:05:14	USER	197.00	8.32	0.00	104.9	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	23	End Job	4/17/2017	01:06:00	USER					RETURNS THROUGHOUT JOB, PIPE WAS NOT RECIPROCATED, 30 BBL CEMENT BACK TO SURFACE
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	4/17/2017	01:10:00	USER					ALL HES PRESENT
Event	25	Rig-Down Equipment	4/17/2017	01:20:00	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	4/17/2017	01:50:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	4/17/2017	01:55:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

LARAMIE - PICEANCE 29-22E - 8.625" SURFACE



LARAMIE - PICEANCE 29-22E - 8.625" SURFACE



HALLIBURTON

iCem[®] Service

LARAMIE ENERGY LLC

For: Laramie

Date: Thursday, April 20, 2017

PICEANCE 29-22E Production

API#05-077-10361

Sincerely,

Grand Junction Cement Engineering

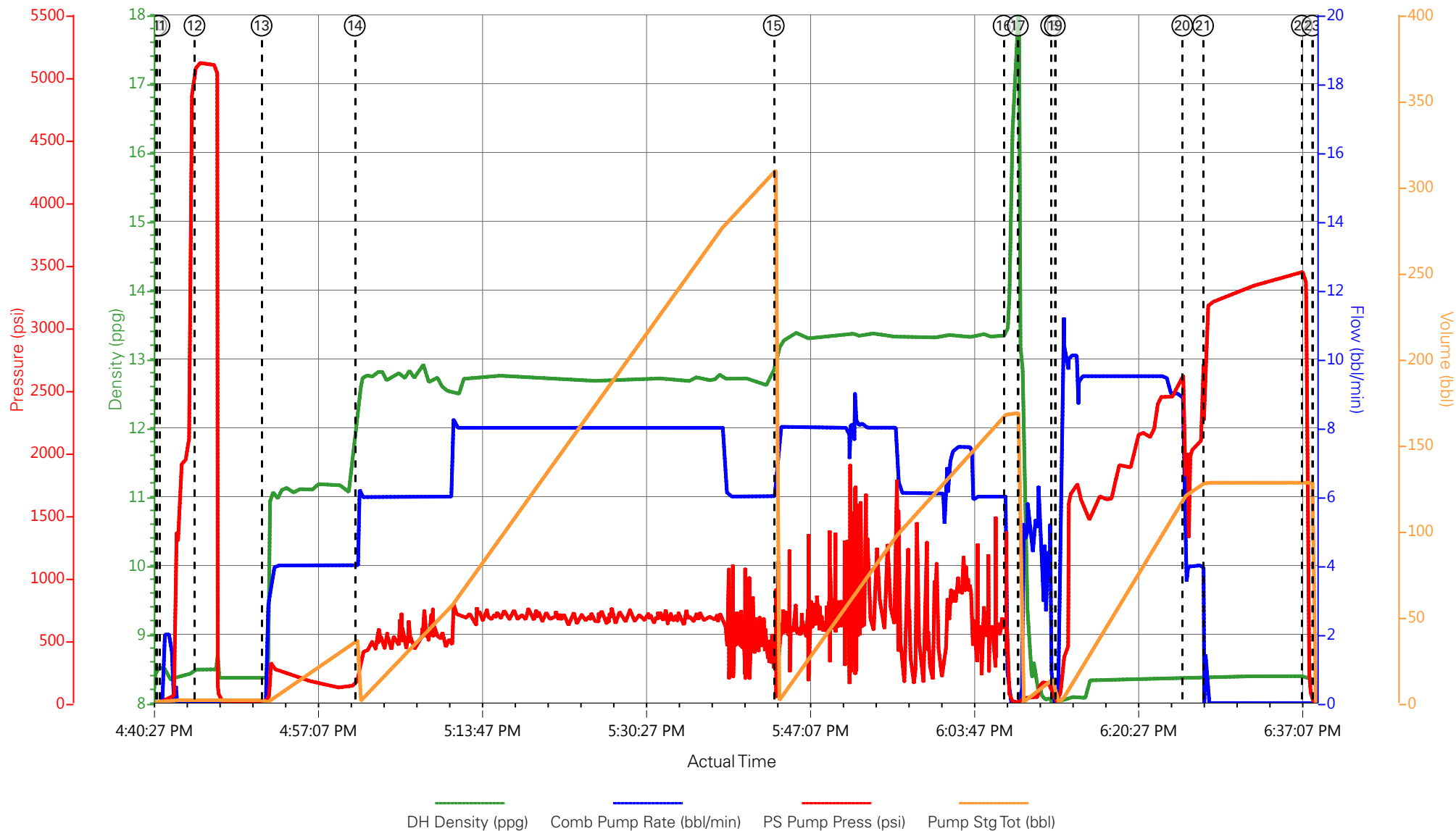
2.0 Real-Time Job Summary

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	4/20/2017	07:00:00	USER					ELITE #1
Event	2	Pre-Convoy Safety Meeting	4/20/2017	11:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	4/20/2017	12:30:00	USER					ARRIVED ON LOCATION 2 HRS EARLY DID NOT START CHARGING HOURS UNTIL REQUESTED ON LOCATION TIME
Event	4	Assessment Of Location Safety Meeting	4/20/2017	12:45:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	4/20/2017	13:00:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	4/20/2017	13:15:00	USER					1 HT-400 PUMP TRUCK (ELITE #1) 1 660 BULK TRUCK 1 BODY LOAD 2 SILO'S 1 F-550 PICKUP
Event	7	Comment	4/20/2017	13:30:00	USER					CUSTOMER WAS OFFERED SDS WATER TEMP @ 55 F PH: 7 CHLORIDES @ 0 PPM
Event	8	Pre-Job Safety Meeting	4/20/2017	16:30:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED @ 10 BBL/MIN FOR 1 HR PRIOR TO JOB PRESSURE @ 10 BBL/MIN 900 PSI
Event	9	Start Job	4/20/2017	16:41:00	COM5					TD: 8410 TP: 8400 CSG: 4 1/2 11.6# N-80 SJ: 81.88 OH: 7 7/8 MW: 9.5 PPG SURFACE CSG: 8 5/8 24# SET @ 1556
Event	10	Drop Bottom Plug	4/20/2017	16:41:01	USER					PLUG AWAY NO ISSUES
Event	11	Prime Lines	4/20/2017	16:41:20	COM5	8.33	2.0	70	2.0	PRIME LINES FRESH WATER
Event	12	Test Lines	4/20/2017	16:44:53	COM5			5119		PRESSURE TEST OK
Event	13	Tuned Spacer III	4/20/2017	16:51:42	COM5	11.0	4.0	155	40.0	40 BBLs 11.0 PPG 4.86 YIELD 31.9 GAL/SK TUNED SPACER III WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES

Event	14	Pump Lead Cement	4/20/2017	17:01:10	COM5	12.5	8.0	750	311.0	900 SKS (311 BBLS) 12.5 PPG 1.94 YIELD 9.6 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	15	Pump Tail Cement	4/20/2017	17:43:45	COM5	13.3	8.0	740	142.0	461 SKS (142 BBLS) 13.3 PPG 1.73 YIELD 7.81 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	16	Shutdown	4/20/2017	18:07:06	USER					
Event	17	Clean Lines	4/20/2017	18:08:33	COM5					CLEAN LINES FRESH WATER
Event	18	Drop Top Plug	4/20/2017	18:11:56	COM5					PLUG AWAY NO ISSUES
Event	19	Pump Displacement	4/20/2017	18:12:18	COM5	8.4	10.0	2650	128.9	128.9 BBL FRESH WATER DISPLACEMENT 5 GALS CLA- WEB 1 GAL MMCR ADDED INTO DISPLACEMENT
Event	20	Slow Rate	4/20/2017	18:25:15	USER	8.4	4.0	2100	118.9	SLOW RATE PRIOR TO BUMPING PLUG
Event	21	Bump Plug	4/20/2017	18:27:22	COM5	8.4	4.0	2100	128.9	PRESSURE PRIOR TO BUMPING PLUG @ 2100 PSI BUMPED PLUG UP TO 3438 PSI HELD FOR 10 MIN CASING TEST
Event	22	Check Floats	4/20/2017	18:37:24	COM5			3438		FLOATS HOLDING 2 BBLS BACK TO TRUCKS TANK
Event	23	End Job	4/20/2017	18:38:27	COM5					GOOD RETURNS THROUGHOUT JOB PIPE WAS STATIC THROUGHOUT JOB CIRCULATED 18 BBLS TUNED SPACER III TO SURFACE
Event	24	Pre-Rig Down Safety Meeting	4/20/2017	18:45:00	USER					ALL HES EMPLOYEES
Event	25	Rig-Down Equipment	4/20/2017	19:00:00	USER					
Event	26	Pre-Convoy Safety Meeting	4/20/2017	19:15:00	USER					ALL HES EMPLOYEES
Event	27	Crew Leave Location	4/20/2017	19:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT DAVID CAMPBELL AND CREW

LARAMIE - PICEANCE 29-22E - 4 1/2 PRODUCTION



- | | | | | |
|---|--------------------------|--------------------|--------------------------------|------------------------------|
| ① Call Out | ⑦ Comment | ⑬ Tuned Spacer III | ⑰ Pump Displacement | 25 Rig-Down Equipment |
| ② Pre-Convoy Safety Meeting | ⑧ Pre-Job Safety Meeting | ⑭ Pump Lead Cement | 20 Slow Rate | 26 Pre-Convoy Safety Meeting |
| ③ Arrive At Loc | ⑨ Start Job | ⑮ Pump Tail Cement | 21 Bump Plug | 27 Crew Leave Location |
| ④ Assessment Of Location Safety Meeting | ⑩ Drop Bottom Plug | ⑯ Shutdown | 22 Check Floats | |
| ⑤ Pre-Rig Up Safety Meeting | ⑪ Prime Lines | ⑰ Clean Lines | 23 End Job | |
| ⑥ Rig-Up Equipment | ⑫ Test Lines | ⑱ Drop Top Plug | 24 Pre-Rig Down Safety Meeting | |

▼ **HALLIBURTON** | iCem® Service

Created: 2017-04-20 14:23:15, Version: 4.2.393

Edit

Customer : LARAMIE ENERGY II LLC

Job Date : 4/20/2017

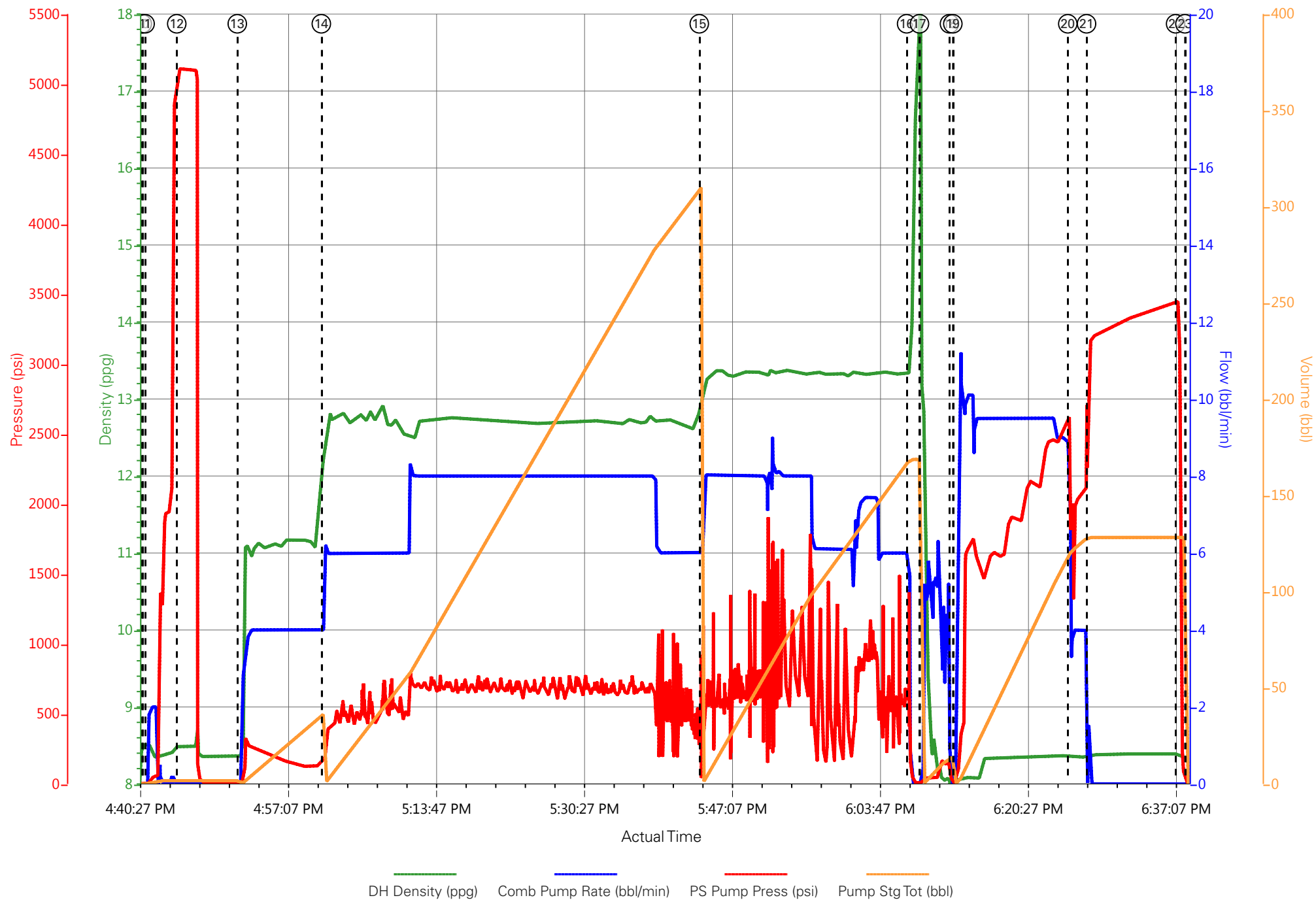
Well : PICEANCE 29-22E

Representative : MATT SETTLES

Sales Order # : 0903976823

ELITE #1 : DAVID CAMPBELL / RYAN MARTIN

LARAMIE - PICEANCE 29-22E - 4 1/2 PRODUCTION



Job Information

Request/Slurry	2380356/1	Rig Name	H&P 522	Date	15/APR/2017
Submitted By	Aaron Katz	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Piceance Federal 29-22E

Well Information

Casing/Liner Size	4.5 in	Depth MD	8400 ft	BHST	116°C / 240°F
Hole Size	7.875 in	Depth TVD	7596 ft	BHCT	78°C / 172°F
Pressure	4730 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



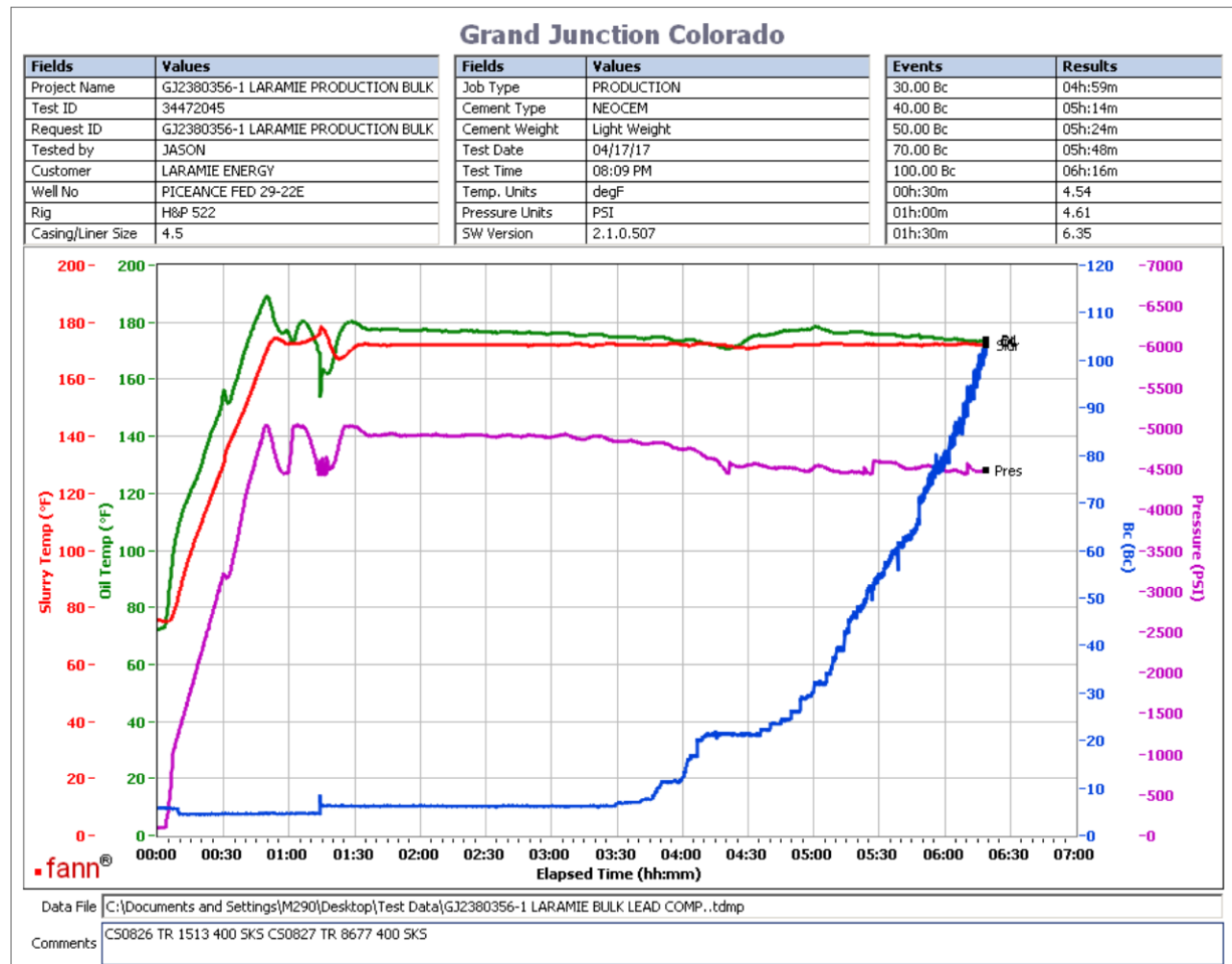
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem Lead				Slurry Density	12.5	lbm/gal
						Slurry Yield	1.941	ft3/sack
						Water Requirement	9.623	gal/sack
						Total Mix Fluid	9.623	gal/sack
						Water Source	Field (Fresh) Water	
						Water Chloride		

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Thickening Time - ON-OFF-ON

18/APR/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)
172	4730	49	4:59	5:24	5:48	6:16	6	59	15	12



Total sk=900
 CS0826, Tr1513, 400 sks
 CS0829, Tr8677, 400 sks

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Operation Test Results Request ID 2380356/2

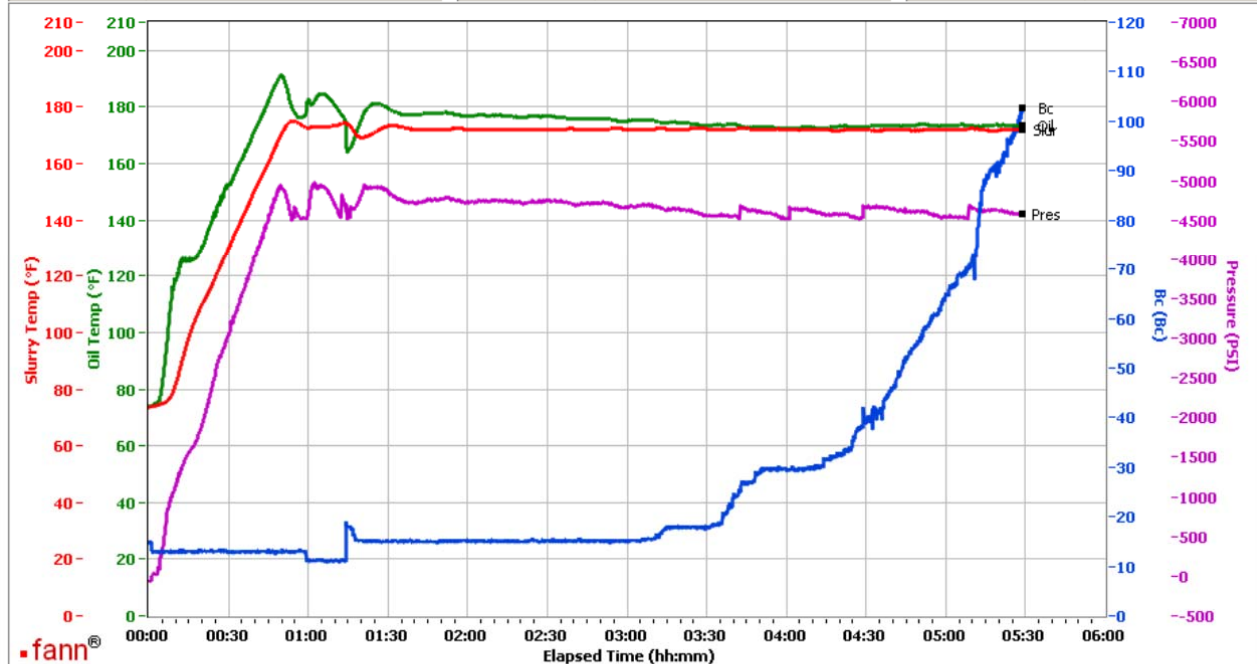
Thickening Time - ON-OFF-ON

18/APR/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)
172	4730	49	3:55	4:43	5:07	5:27	15	59	15	20

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	2380356-2 LARAMIE PRODUCTION LEAD	Job Type	PRODUCTION CASING	30.00 Bc	03h:55m
Test ID	2380356-2	Cement Type	TYPE I/II	40.00 Bc	04h:28m
Request ID		Cement Weight	Standard	50.00 Bc	04h:43m
Tested by	CT	Test Date	04/18/17	70.00 Bc	05h:07m
Customer	LARAMIE	Test Time	08:21 AM	100.00 Bc	05h:27m
Well No	PTCEANCE FEDERAL 29-22E	Temp. Units	degF	00h:30m	12.93
Rig	H&P 522	Pressure Units	PSI	01h:00m	11.30
Casing/Liner Size	4.5	SW Version	2.1.0.507	01h:30m	14.82



Data File C:\Documents and Settings\M290\Desktop\Test Data\GJ2380356-2 LARAMIE BULK LEAD.tdms

Comments CS0632 TRAILER 7094 100 SKS

Total sks=900

CS0632 Trailer 7094 100 sks

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2380355/1	Rig Name	H&P 522	Date	15/APR/2017
Submitted By	Aaron Katz	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Piceance Federal 29-22E

Well Information

Casing/Liner Size	4.5 in	Depth MD	8400 ft	BHST	116°C / 240°F
Hole Size	7.875 in	Depth TVD	7596 ft	BHCT	78°C / 172°F
Pressure	4730 psi				

Drilling Fluid Information

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



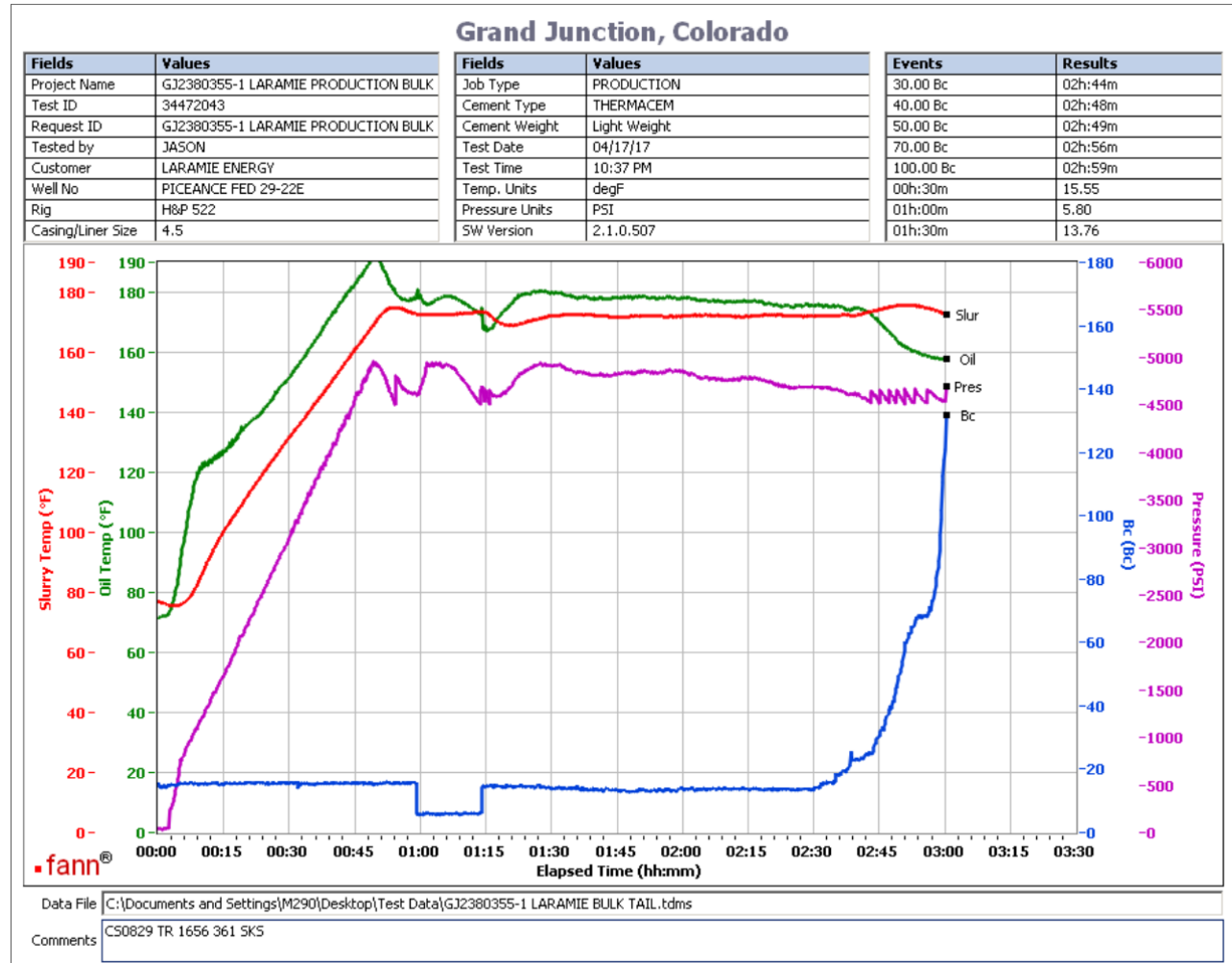
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		ThermaCem Tail				Slurry Density	13.3	lbm/gal
						Slurry Yield	1.733	ft3/sack
						Water Requirement	7.799	gal/sack
						Total Mix Fluid	7.799	gal/sack
						Water Source	Field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

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Thickening Time - ON-OFF-ON

17/APR/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)
172	4730	49	2:44	2:49	2:56	2:59	16	59	15	15



Total sks = 461
 CS0829 TR 1656 361 SKS
 Deflected 6-- > 15

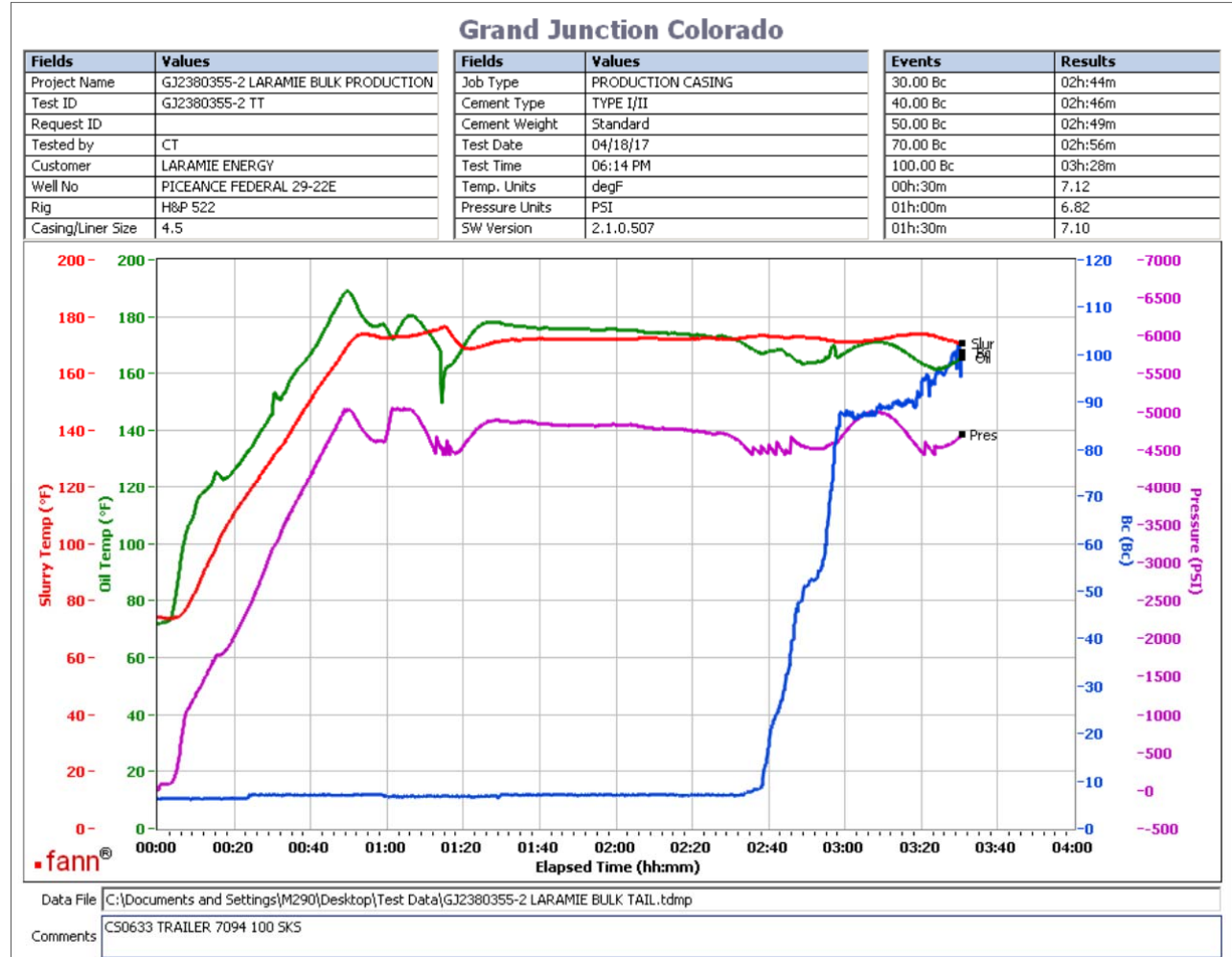
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Operation Test Results Request ID 2380355/2

Thickening Time - ON-OFF-ON

18/APR/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)
172	4730	49	2:44	2:49	2:56	3:28	16	59	15	24



Total sks = 461
CS0633 Trailer 7094 100 sks

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