

HALLIBURTON

iCem[®] Service

LARAMIE ENERGY LLC-EBUS

For: Aaron Duncan

Date: Tuesday, February 20, 2018

Gunderson 994-13-04W Surface PJR

API# 05-077-10545-00

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

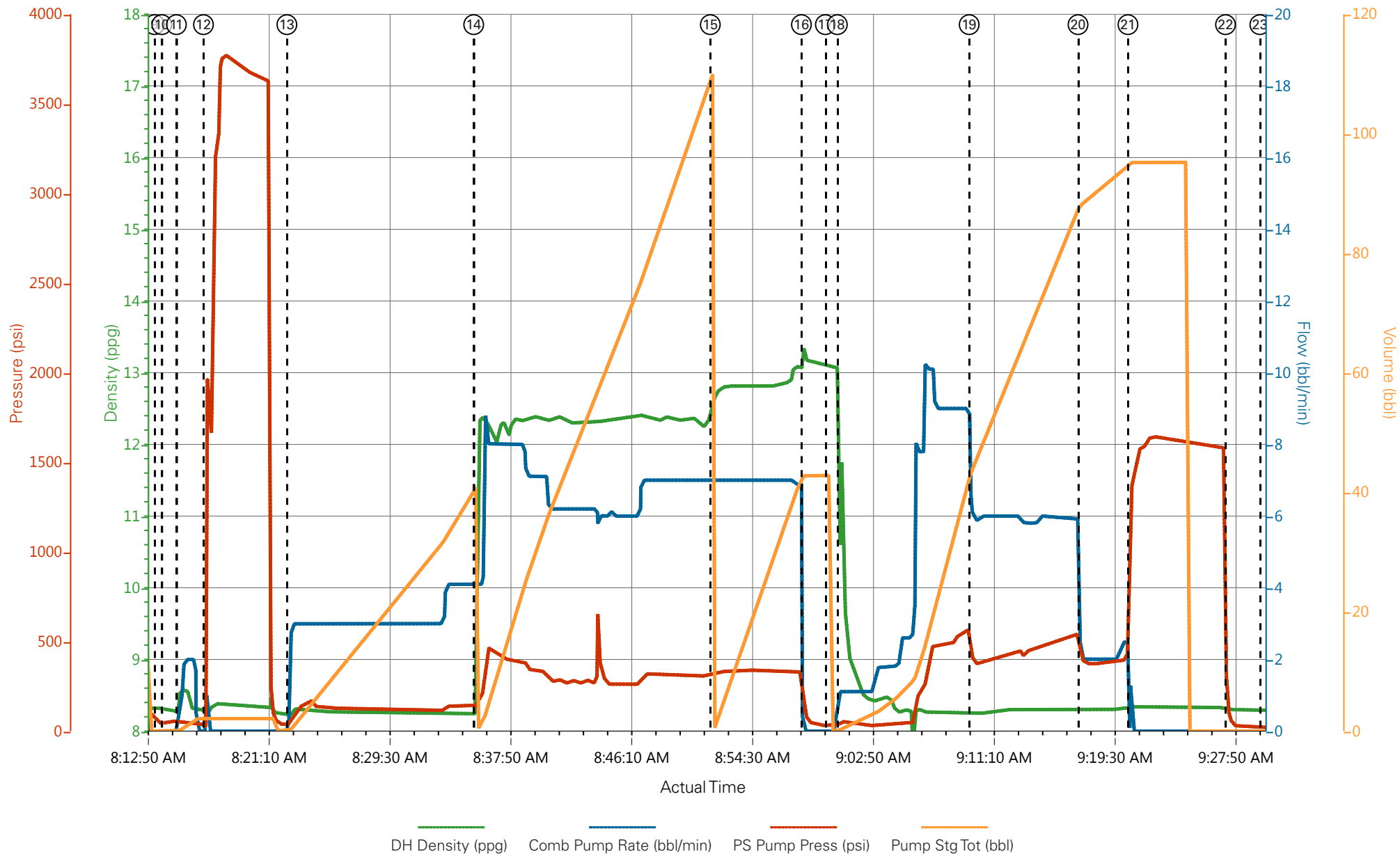
2.1 Job Event Log

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	02/19/2018	23:30:00	USER					REQUESTED ON LOCATION TIME 0600
Event	2	Pre-Convoy Safety Meeting	02/20/2018	02:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	02/20/2018	04:30:00	USER					ARRIVED ON LOCATION 1 1/2 HOURS EARLY, RIG RUNNING CASING
Event	4	Meet With Company Rep	02/20/2018	04:45:00	USER					COMPANY REP OFFERED SDS / WATER TEST: TEMP: 60 PH: 7 CHLORIDES: 0
Event	5	Assessment Of Location Safety Meeting	02/20/2018	05:00:00	USER					ALL HES EMPLOYEES
Event	6	Pre-Rig Up Safety Meeting	02/20/2018	05:15:00	USER					ALL HES EMPLOYEES
Event	7	Rig-Up Equipment	02/20/2018	05:30:00	USER					1 HT-400 PUMP TRUCK 1 660 BULK TRUCK 1 BODY LOAD BULK TRUCK 1 F-550 PICKUP
Event	8	Pre-Job Safety Meeting	02/20/2018	07:00:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 30 MIN PRIOR TO THE JOB @ 10 BPM AND THEN PUMPED 80 BBL LCM PILL DOWN THE BACKSIDE PRIOR TO STARTING THE JOB
Event	9	Start Job	02/20/2018	08:13:30	COM4					TD: 1560 TP: 1550 SJ: 46.2 CSG: 8 5/8 28# OH:11 MUD WT: 9.1
Event	10	Drop Bottom Plug	02/20/2018	08:14:00	USER					PLUG AWAY NO PROBLEMS
Event	11	Prime Lines	02/20/2018	08:15:00	COM4	8.33	2.0	55	2.0	PRIME LINES WITH 2 BBLs FRESH WATER
Event	12	Test Lines	02/20/2018	08:16:52	COM4	8.33	0.0	3775	0.0	PRESSURE TEST OK
Event	13	Pump Fresh Water Spacer	02/20/2018	08:22:37	USER	8.33	4.0	145	40	PUMP 40 BBL FRESH WATER SPACER
Event	14	Pump Lead Cement	02/20/2018	08:35:30	COM4	12.3	8.0	388	105.6	242 SKS 12.3 PPG 2.46 YIELD 14.17 GAL/SK LEAD CEMENT

WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES

Event	15	Pump Tail Cement	02/20/2018	08:51:49	COM4	12.8	7.0	320	42.3	109 SKS 12.8 PPG 2.18 YIELD 12.11 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	16	Shutdown	02/20/2018	08:58:06	COM4					SHUTDOWN TO DROP TOP PLUG
Event	17	Drop Top Plug	02/20/2018	08:59:45	COM4					PLUG AWAY NO PROBLEMS
Event	18	Pump Displacement	02/20/2018	09:00:34	USER	8.33	10.9	598	40	FRESH WATER
Event	19	Slow Rate	02/20/2018	09:09:40	COM4	8.33	6.	520	43.8	SLOW RATE AS PER COMPANY REP WHEN WE GOT CEMENT TO SURFACE
Event	20	Slow Rate	02/20/2018	09:17:10	USER	8.33	2.0	400	10.0	SLOW RATE TO BUMP PLUG
Event	21	Bump Plug	02/20/2018	09:20:37	COM4	8.33	0.0	1643	93.8	PSI BEFORE BUMPING PLUG @ 400 BUMPED PLUG UP TO 1643 FOR CSG TEST PRESSURE WAS SLOWLY BLEEDING OFF DUE TO LEAK ON THE WELL HEAD.
Event	22	Check Floats	02/20/2018	09:27:20	USER					FLOATS HELD, 3/4 BBL BACK TO DISPLACEMENT TANKS
Event	23	End Job	02/20/2018	09:29:42	COM4					GAINED RETURNS 12 BBLs INTO FRESH WATER SPACER. PIPE STATIC THROUGHOUT JOB. 50 BBLs OF CEMENT TO SURFACE
Event	24	Pre-Rig Down Safety Meeting	02/20/2018	09:45:00	USER					ALL HES EMPLOYEES
Event	25	Rig-Down Equipment	02/20/2018	10:00:00	USER					
Event	26	Pre-Convoy Safety Meeting	02/20/2018	10:50:00	USER					ALL HES EMPLOYEES
Event	27	Crew Leave Location	02/20/2018	11:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, DUSTIN SMITH AND CREW

LARAMIE - GUNDERSON - 994-13-04W - 8 5/8 SURFACE



- | | | | | | |
|-----------------------------|-----------------------------------------|--------------------|---------------------------|---------------------|-----------------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Start Job | ⑬ Pump Fresh Water Spacer | ⑰ Drop Top Plug | 21 Bump Plug |
| ② Pre-Convoy Safety Meeting | ⑥ Pre-Rig Up Safety Meeting | ⑩ Drop Bottom Plug | ⑭ Pump Lead Cement | ⑱ Pump Displacement | 22 Check Floats |
| ③ Arrive At Loc | ⑦ Rig-Up Equipment | ⑪ Prime Lines | ⑮ Pump Tail Cement | ⑲ Slow Rate | 23 End Job |
| ④ Meet With Company Rep | ⑧ Pre-Job Safety Meeting | ⑫ Test Lines | ⑯ Shutdown | 20 Slow Rate | |

▼ **HALLIBURTON** | iCem® Service

Created: 2018-02-20 00:19:57, Version: 4.2.393

Edit

Customer : LARAMIE ENERGY LLC-EBUS

Job Date : 2/20/2018 7:07:10 AM

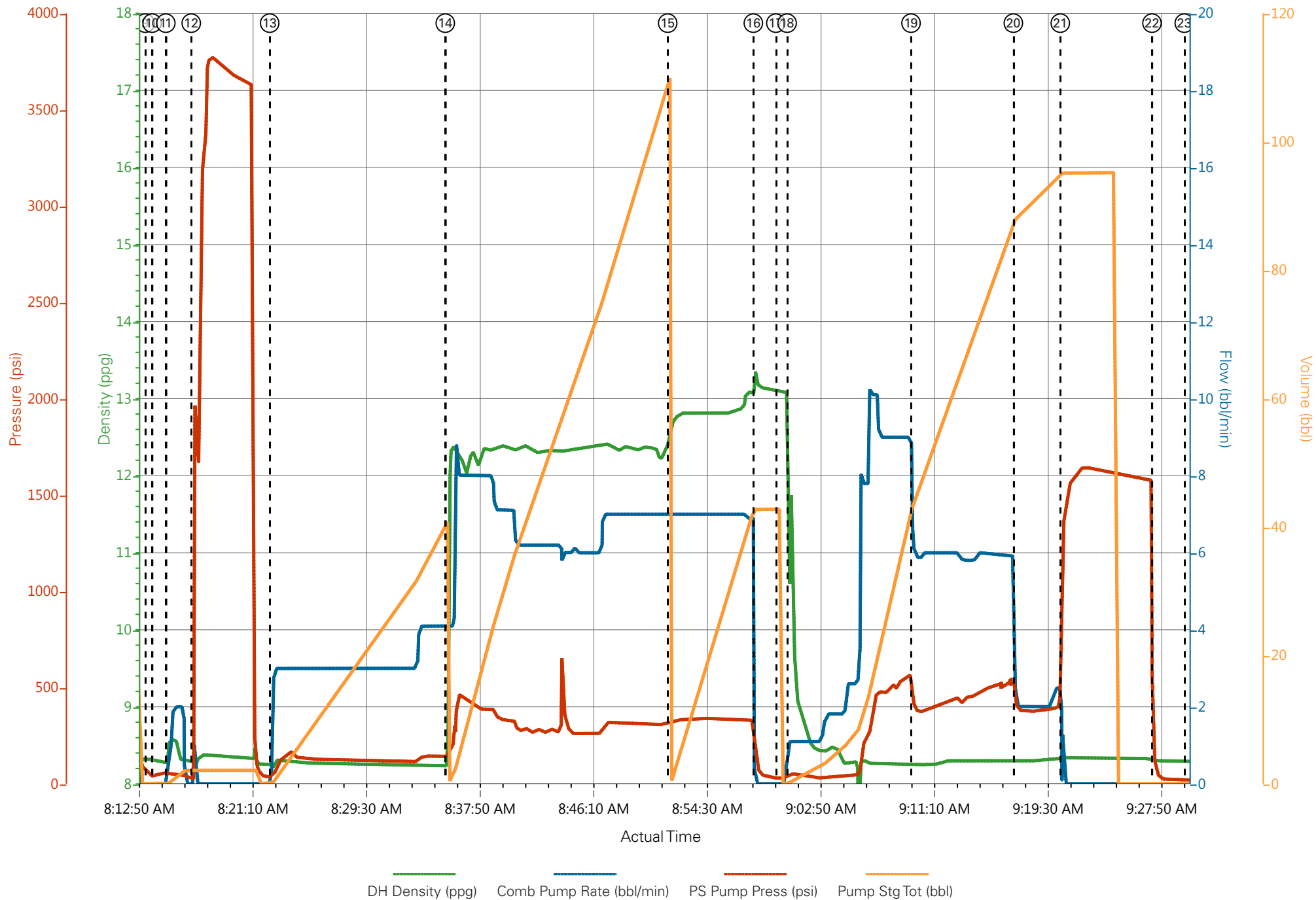
Well : GUNDERSON 994-13-04W

Representative : SHANE HEARD

Sales Order # : 0904653428

ELITE #1 : DUSTIN SMITH / WES GOWEN

LARAMIE - GUNDERSON - 994-13-04W - 8 5/8 SURFACE



HALLIBURTON

iCem[®] Service

LARAMIE ENERGY LLC-EBUS

For: Aaron Duncan

Date: Saturday, February 24, 2018

Gunderson 994-13-04W Production PJR

API# 05-077-10545-00

Sincerely,

Grand Junction Cement Engineering

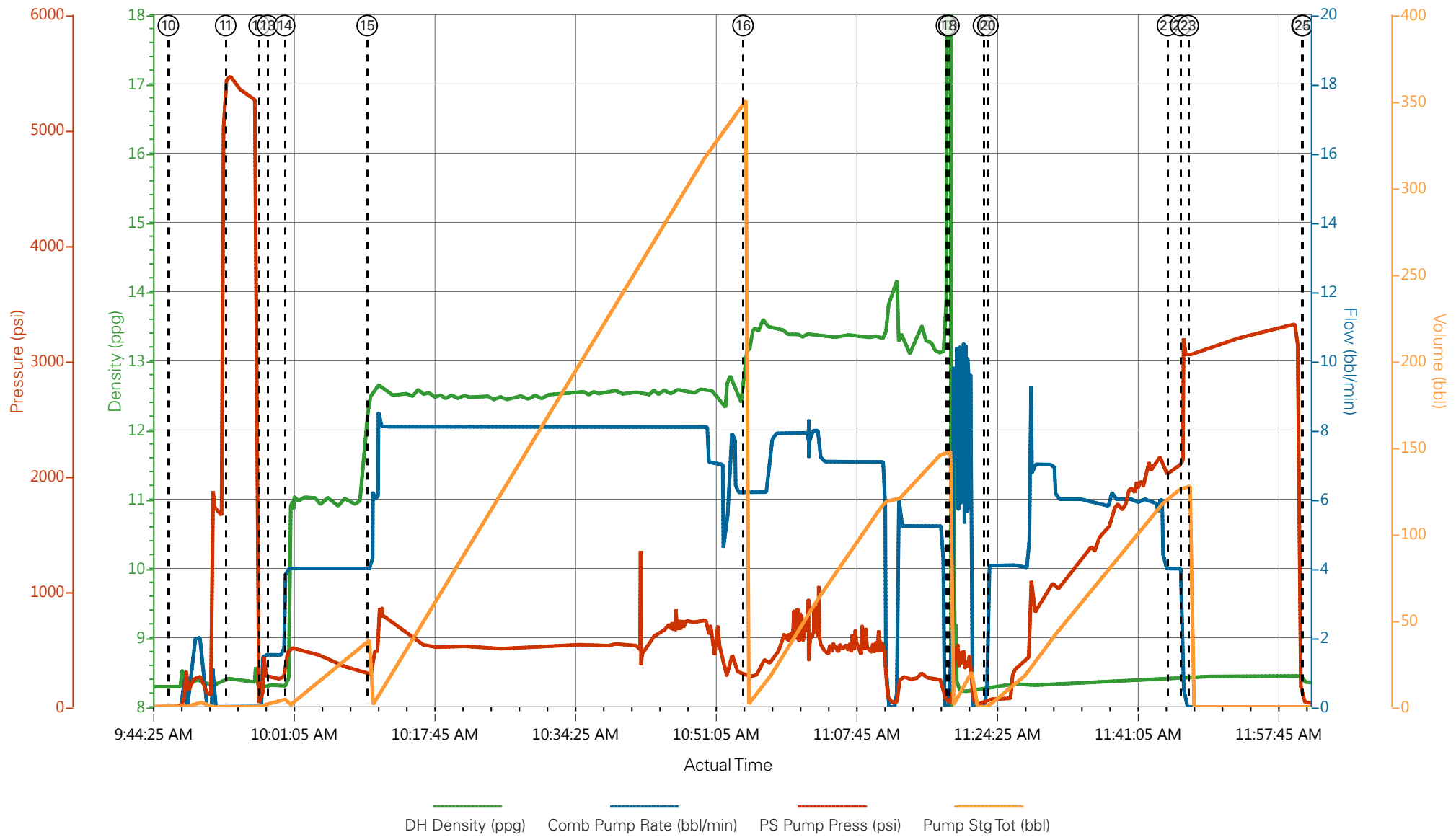
2.0 Real-Time Job Summary

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	2/24/2018	01:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	2/24/2018	04:00:00	USER					JSA COMPLETE
Event	3	Crew Leave Yard	2/24/2018	04:15:00	USER					
Event	4	Arrive At Loc	2/24/2018	06:00:00	USER					RIG RUNNING CASING, WATER TEST COMPLETED PH-7, TEMP- 68, CL -0
Event	5	Assessment Of Location Safety Meeting	2/24/2018	06:30:00	USER					2 SILOS, 1 ELITE, 1 660, RIGGED INTO THE UPRIGHT (400 BBLS) AND DAY TANK (450 BBLS) FOR WATER.
Event	6	Pre-Rig Up Safety Meeting	2/24/2018	06:45:00	USER					JSA COMPLETE
Event	7	Rig-Up Equipment	2/24/2018	06:50:00	USER					
Event	8	Other	2/24/2018	06:50:01	USER					4.5 11.6#, P-110, TP- 8301, TD 8311, S.J.- 86.88, HOLE- 7 7/8, 8 5/8 SURFACE CASING SET AT 1550
Event	9	Pre-Job Safety Meeting	2/24/2018	09:30:00	USER					
Event	10	Start Job	2/24/2018	09:46:35	COM5					
Event	11	Pressure Test	2/24/2018	09:53:22	USER	8.33	0.00	5480.00	0.0	5480 PSI
Event	12	Pump Spacer 1	2/24/2018	09:57:20	COM5	8.33	1.50	290	4.00	FRESH WATER TO ESTABLISH CIRCULATION
Event	13	Drop Bottom Plug	2/24/2018	09:58:21	USER					AWAY
Event	14	Pump Spacer 2	2/24/2018	10:00:21	COM5	11.00	4.00	485.00	40.00	TUNED SPACER 11 PPG 4.86 FT3/SK, 31.9 GAL/SK

Event	15	Pump Lead Cement	2/24/2018	10:10:08	COM5	12.50	8.00	550	319.00	923 SKS, 12.5 PPG, 1.94 FT3/SK, 9.6 GAL/SK
Event	16	Pump Tail Cement	2/24/2018	10:54:40	COM5	13.3	8.00	570	129.00	420 SKS, 13.3 PPG, 1.73 FT3/SK, 7.81 GAL/SK, OPERATOR SHUT DOWN WHEN THE UPRIGHT WATER TANK WENT EMPTY. HE SWAPED TO INSIDE WATER AND STARTED PUMPING AGAIN, SWAPPED TO DAY TANK.
Event	17	Shutdown	2/24/2018	11:18:47	USER					TO WASH PUMPS AND LINES
Event	18	Clean Lines	2/24/2018	11:19:05	COM5					WASHED UP TO CELLAR
Event	19	Drop Top Plug	2/24/2018	11:23:10	COM5					AWAY
Event	20	Pump Displacement	2/24/2018	11:23:42	COM5	8.33	6.00	2190	127.3	FRESH WATER WITH 1 GAL MMCR, 5 GAL CLA WEB, 5 GAL BIOCIDES THAT THE CUSTOMER SUPPLIED
Event	21	Slow Rate	2/24/2018	11:44:59	USER	8.33	4.00	2025	117.00	TO BUMP PLUG
Event	22	Bump Plug	2/24/2018	11:46:31	COM5			2200	127.3	PLUG BUMPED, 20 BBLS OF CMT TO SURFACE
Event	23	TEST CASING	2/24/2018	11:47:26	USER	8.33	0.00	3200	0.0	TESTED TO 3200 PSI FOR 10 MINS, TEST GOOD
Event	24	Check Floats	2/24/2018	12:00:54	USER					FLOATS HELD 1.5 BBLS BACK TO TRUCK
Event	25	End Job	2/24/2018	12:01:00	COM5					GOOD CIRCULATION THROUGHOUT JOB, NO PIPE MOVEMENT.
Event	26	Post-Job Safety Meeting (Pre Rig-Down)	2/24/2018	12:14:21	USER					JSA COMPLETE
Event	27	Rig Down Lines	2/24/2018	12:45:00	USER					
Event	28	Crew Leave Location	2/24/2018	13:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

LARAMIE ENERGY - GUNDERSON 994-13-04W - 4.5 PRODUCTION CASING



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

▼ **HALLIBURTON** | iCem® Service

Created: 2018-02-24 04:23:57, Version: 4.2.393

Edit

Customer : LARAMIE ENERGY LLC-EBUS

Job Date : 2/24/2018 8:33:17 AM

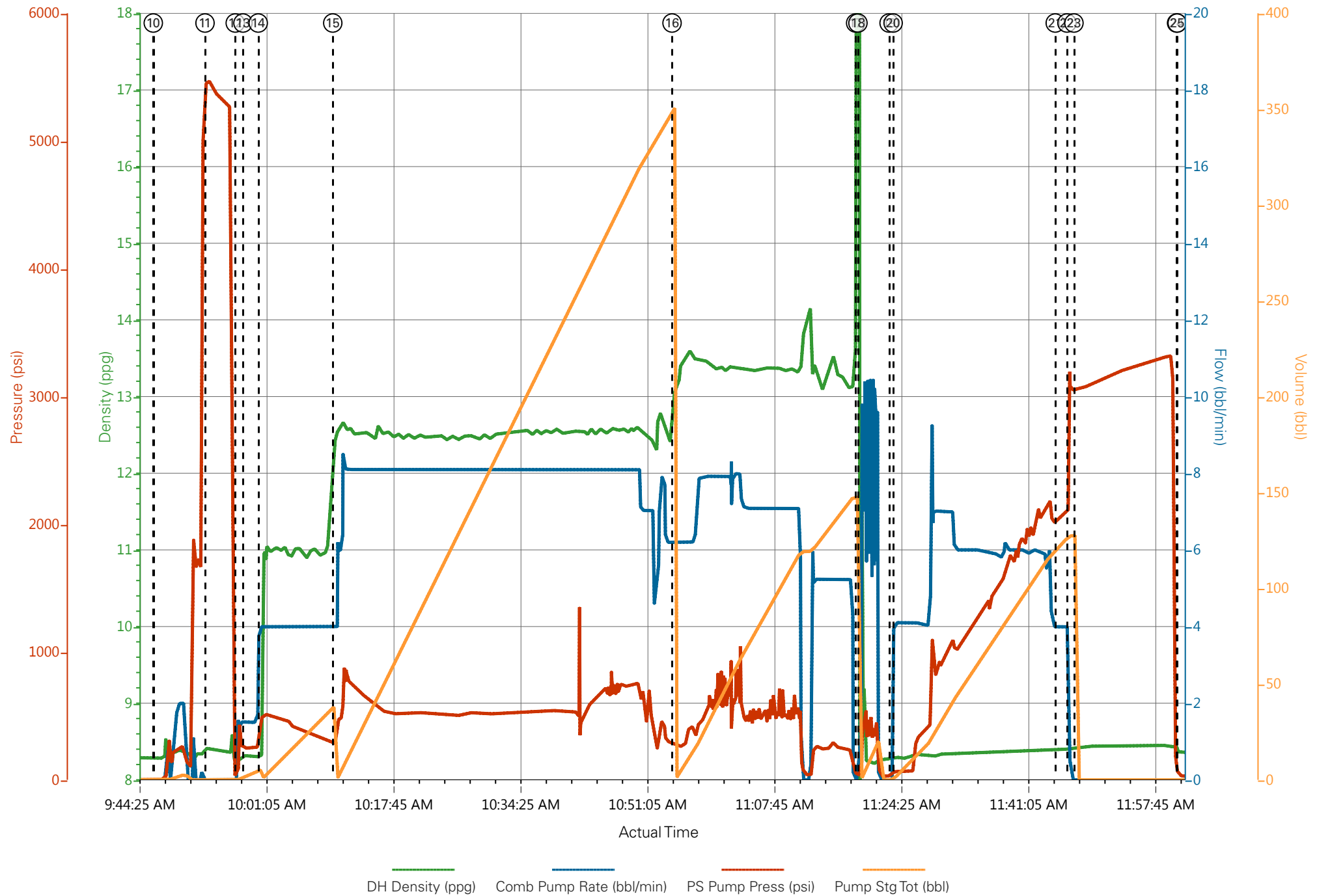
Well : gunderson 994-13-04w

Representative : SHANE HEARD

Sales Order # : 904660238

ELITE 1 : WES GOWEN / J. LEIST

LARAMIE ENERGY - GUNDERSON 994-13-04W - 4.5 PRODUCTION CASING



Job Information

Request/Slurry	2454409/3	Rig Name	H&P 522	Date	19/FEB/2018
Submitted By	Lukas Van Zyl	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Gunderson 994-13-04W

Well Information

Casing/Liner Size	4.5 in	Depth MD	7607 ft	BHST	113°C / 236°F
Hole Size	7.875 in	Depth TVD	8336 ft	BHCT	76°C / 169°F
Pressure	4625 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				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	Fresh Water	
						Water Chloride		

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Operation Test Results Request ID 2454409/3

Thickening Time - ON-OFF-ON

21/FEB/2018

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)
169	4625	48	2:46	4:37	4:40	5:01	20	58	15	19

CS0475 TR 2398 123 SKS DIP SAMPLE

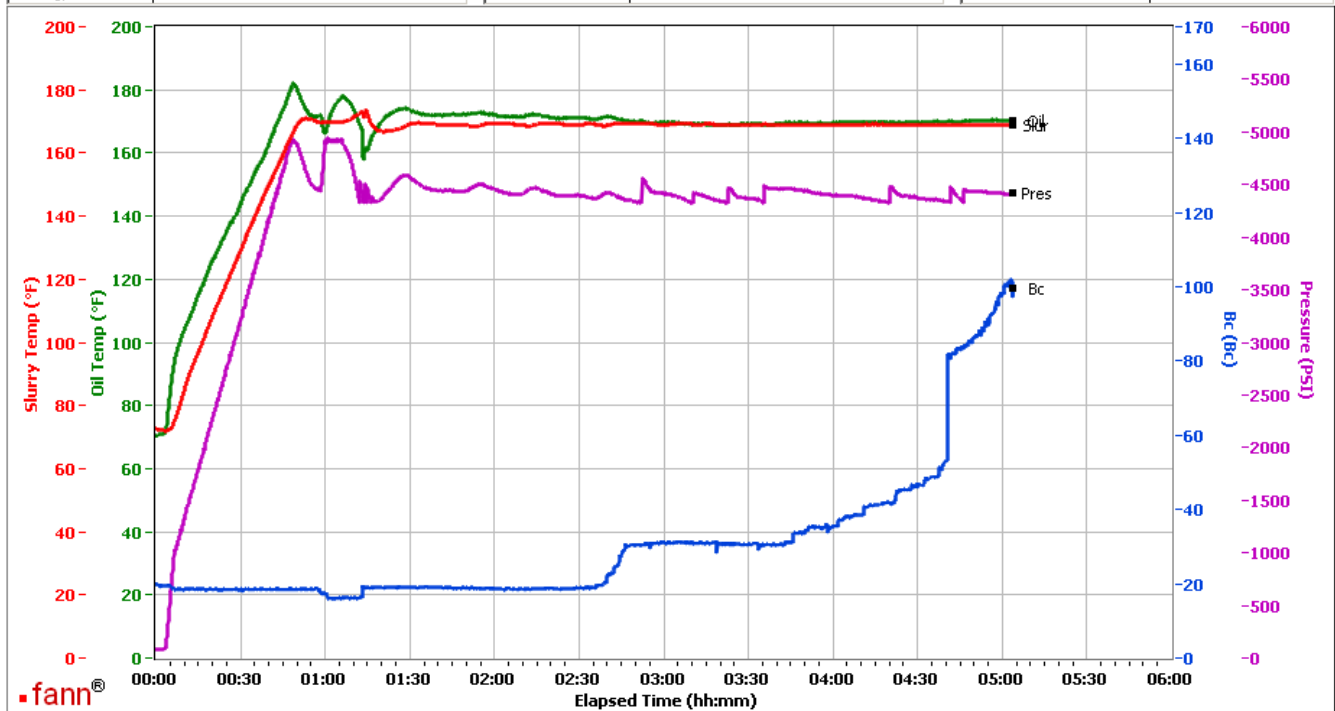
Deflected 16--> 19.

Grand Junction Colorado

Fields	Values
Project Name	GJ2454409-3 LARAMIE PRODUCTION LEAD
Test ID	356273742
Request ID	2454409-3
Tested by	JASON
Customer	LARAMIE ENERGY
Well No	GUNDERSON 994-13-04W
Rig	H&P 522
Casing/Liner Size	4.5 INCH

Fields	Values
Job Type	PRODUCTION
Cement Type	HOLCIM TYPE I-II
Cement Weight	Light Weight
Test Date	02/21/18
Test Time	05:35 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	02h:46m
40.00 Bc	04h:11m
50.00 Bc	04h:37m
70.00 Bc	04h:40m
100.00 Bc	05h:01m
00h:30m	18.70
01h:00m	17.53
01h:30m	18.92



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\CDER4HUW\GJ2454409-3 LARAMIE PRODUCTION LEAD BULK DIP[1].tdms

Comments CS0475 TR 2398 123 SKS DIP SAMPLE

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Operation Test Results Request ID 2454409/2

Thickening Time - ON-OFF-ON

21/FEB/2018

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)	Termination time (hh:mm)	Termination Bc
169	4625	48	4:30	7	58	15	8	11:40	38

CS0473 TR#2398 123 SKS

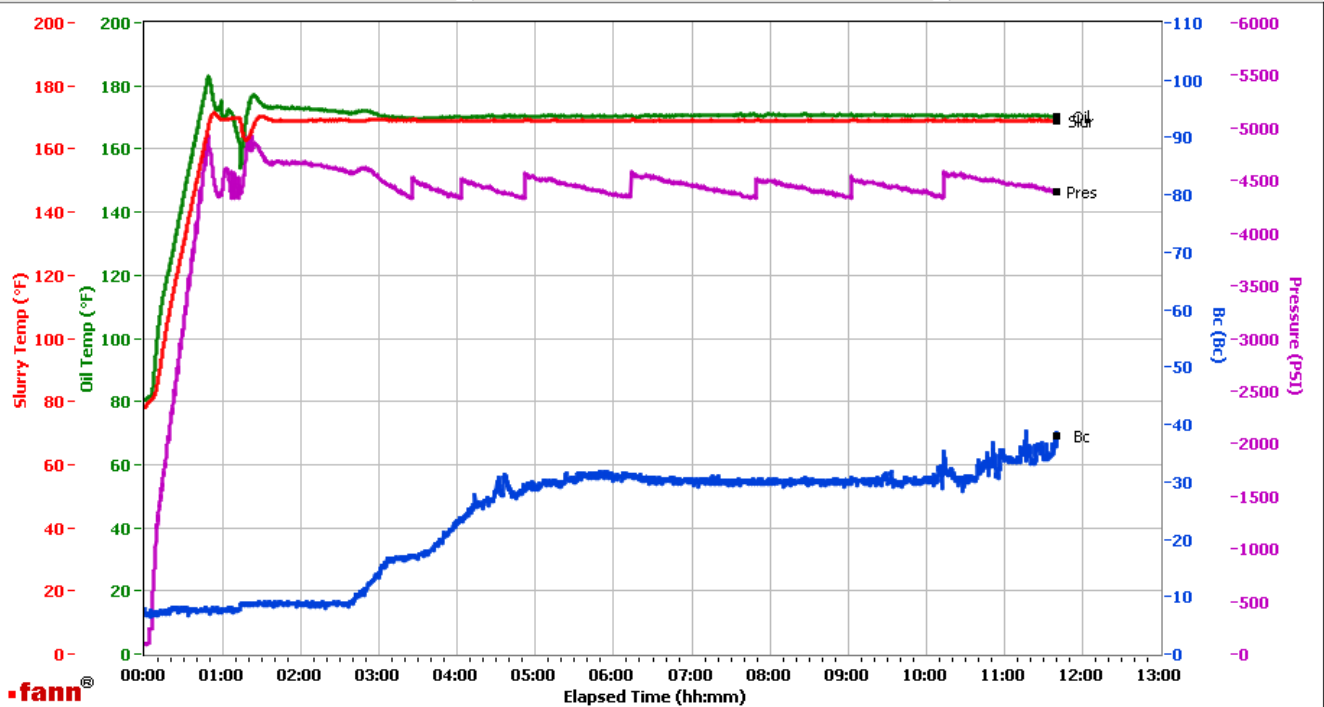
No deflection. Test pulled per Engineer.

Grand Junction Colorado

Fields	Values
Project Name	GJ2454409-2 LARAMIE PRODUCTION BULK
Test ID	35271962
Request ID	GJ2454409-2
Tested by	DEBA
Customer	LARAMIE ENERGY
Well No	GUNDERSON 994-13-04w
Rig	H&P 522
Casing/Liner Size	4.5"

Fields	Values
Job Type	PRODUCTION CASING
Cement Type	HOLCIM TYPE I-II
Cement Weight	Standard
Test Date	02/21/18
Test Time	06:24 AM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	04h:30m
40.00 Bc	NaN
50.00 Bc	NaN
70.00 Bc	NaN
100.00 Bc	NaN
00h:30m	7.39
01h:00m	7.63
01h:30m	8.64



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Comments CS0473 tr#2398 123 SKS

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Operation Test Results Request ID 2454409/1

Thickening Time - ON-OFF-ON

20/FEB/2018

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)
169	4625	48	3:20	3:58	4:19	4:29	15	58	15	19

Total sks = 923

CS0466 TR# 8658 400 SKS

CS0467 TR# 8677 400 SKS

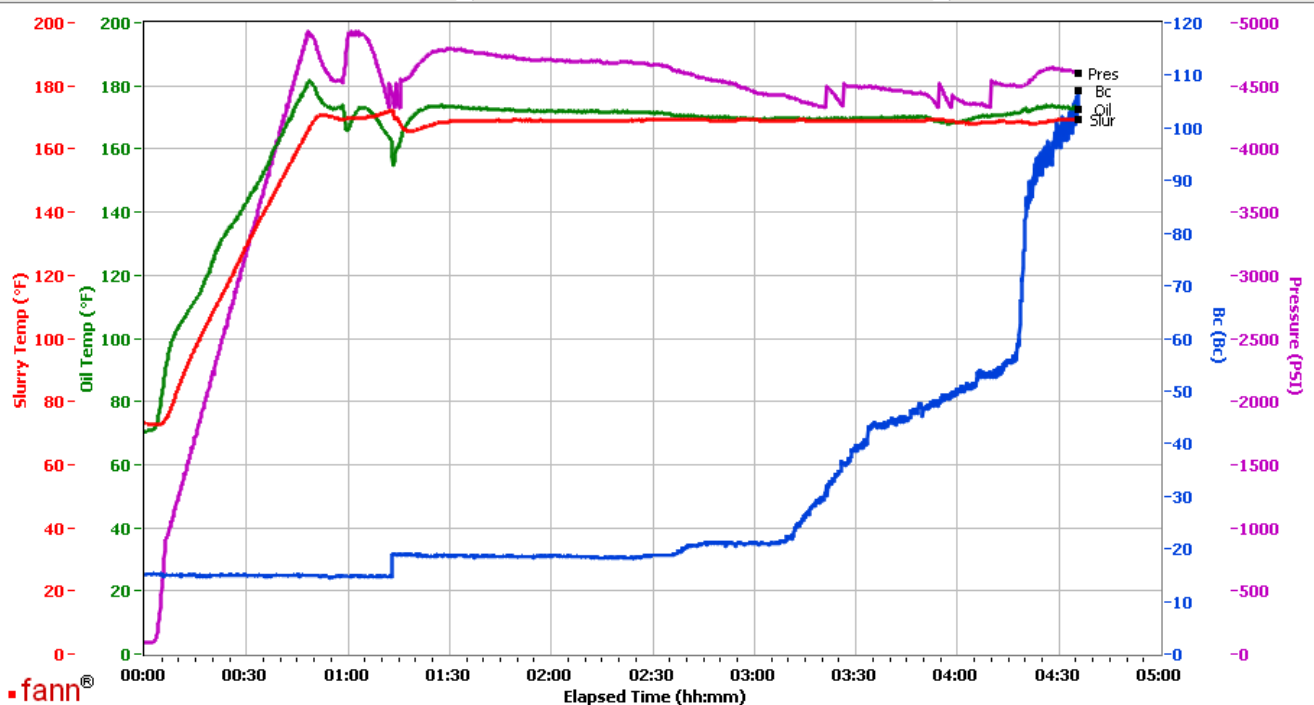
Deflected from 14Bc--19Bc

Grand Junction Colorado

Fields	Values
Project Name	GJ2454409-1 LARAMIE PRODUCTION BULK
Test ID	35268746
Request ID	GJ2454409-1
Tested by	DEBA
Customer	LARAMIE ENERGY
Well No	GUNDERSON 994-13-04W
Rig	H&P 522
Casing/Liner Size	4.5"

Fields	Values
Job Type	PRODUCTION CASING
Cement Type	HOLCIM TYPE I-II
Cement Weight	Standard
Test Date	02/20/18
Test Time	03:35 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:20m
40.00 Bc	03h:32m
50.00 Bc	03h:58m
70.00 Bc	04h:19m
100.00 Bc	04h:29m
00h:30m	14.86
01h:00m	14.74
01h:30m	18.63



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Comments COMPOSITE: CS0466 TR#8658 400 SKS AND CS0467 TR#8677 400 SKS

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2454410/1	Rig Name	H&P 522	Date	19/FEB/2018
Submitted By	Lukas Van Zyl	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Gunderson 994-13-04W

Well Information

Casing/Liner Size	4.5 in	Depth MD	8336 ft	BHST	113°C / 236°F
Hole Size	7.875 in	Depth TVD	7607 ft	BHCT	76°C / 169°F
Pressure	4625 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



Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties	
		ThermaCem				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	N/A

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Operation Test Results Request ID 2454410/1

Thickening Time - ON-OFF-ON

21/FEB/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)
169	4625	48	3:17	4:02	4:10	4:16	20	58	15	21

Total sks = 420

CS0468 TR#2878 420 SKS

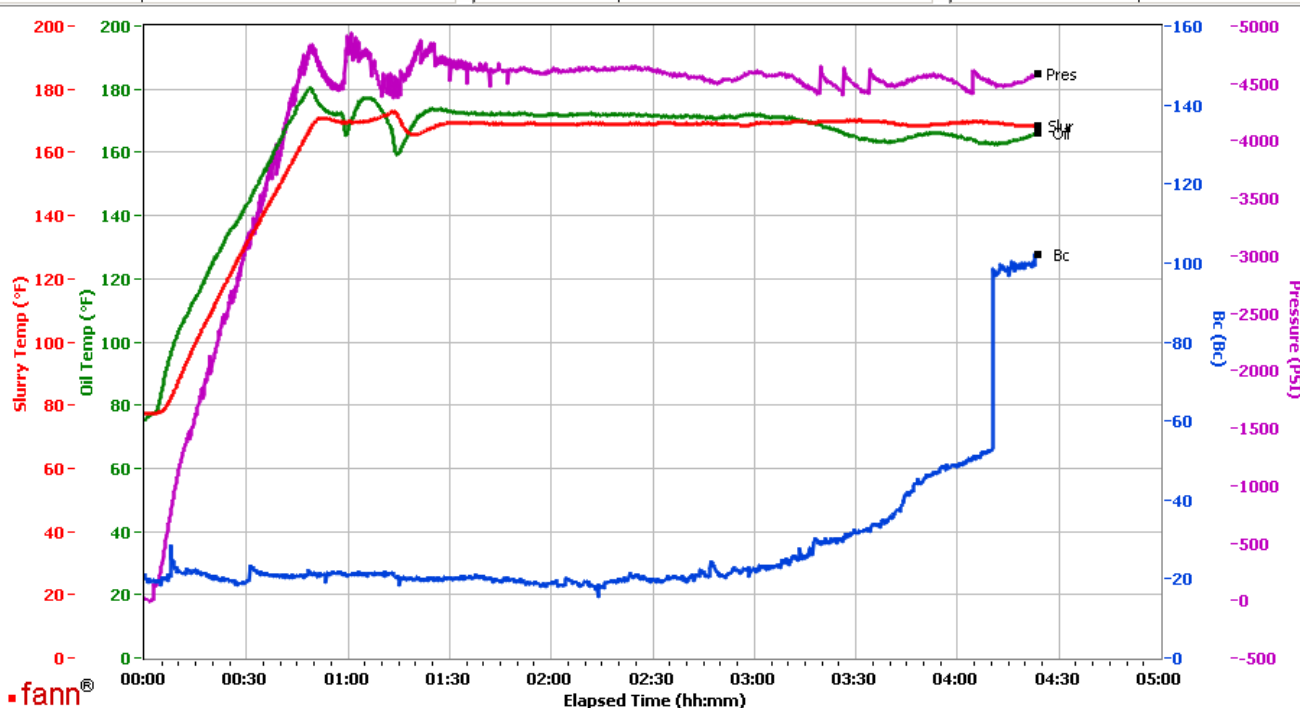
No deflection. Please note that heat of hydration started around 3:14.

Grand Junction, Colorado

Fields	Values
Project Name	GJ2454410-1 LARAMIE PRODUCTION BULK
Test ID	35268748
Request ID	GJ2454410-1
Tested by	DEBA
Customer	LARAMIE ENERGY
Well No	GUNDERSON 994-13-04W
Rig	H8P 522
Casing/Liner Size	4.5"

Fields	Values
Job Type	PRODUCTION CASING
Cement Type	MOUNTAIN G
Cement Weight	Standard
Test Date	02/21/18
Test Time	01:09 AM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:17m
40.00 Bc	03h:44m
50.00 Bc	04h:02m
70.00 Bc	04h:10m
100.00 Bc	04h:16m
00h:30m	19.21
01h:00m	20.98
01h:30m	20.01



Data File C:\Documents and Settings\M290\Desktop\Test Data\GJ2454410-1 LARAMIE PRODUCTION BULK TAIL.tdms

Comments CS0468 TR#2878 420 sks

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