

HALLIBURTON

iCem[®] Service

LARAMIE ENERGY LLC

For: Laramie

Date: Monday, June 05, 2017

Gunderson 20-03W Surface

API # 05-077-10338

Sincerely,

Grand Junction Cement Engineering

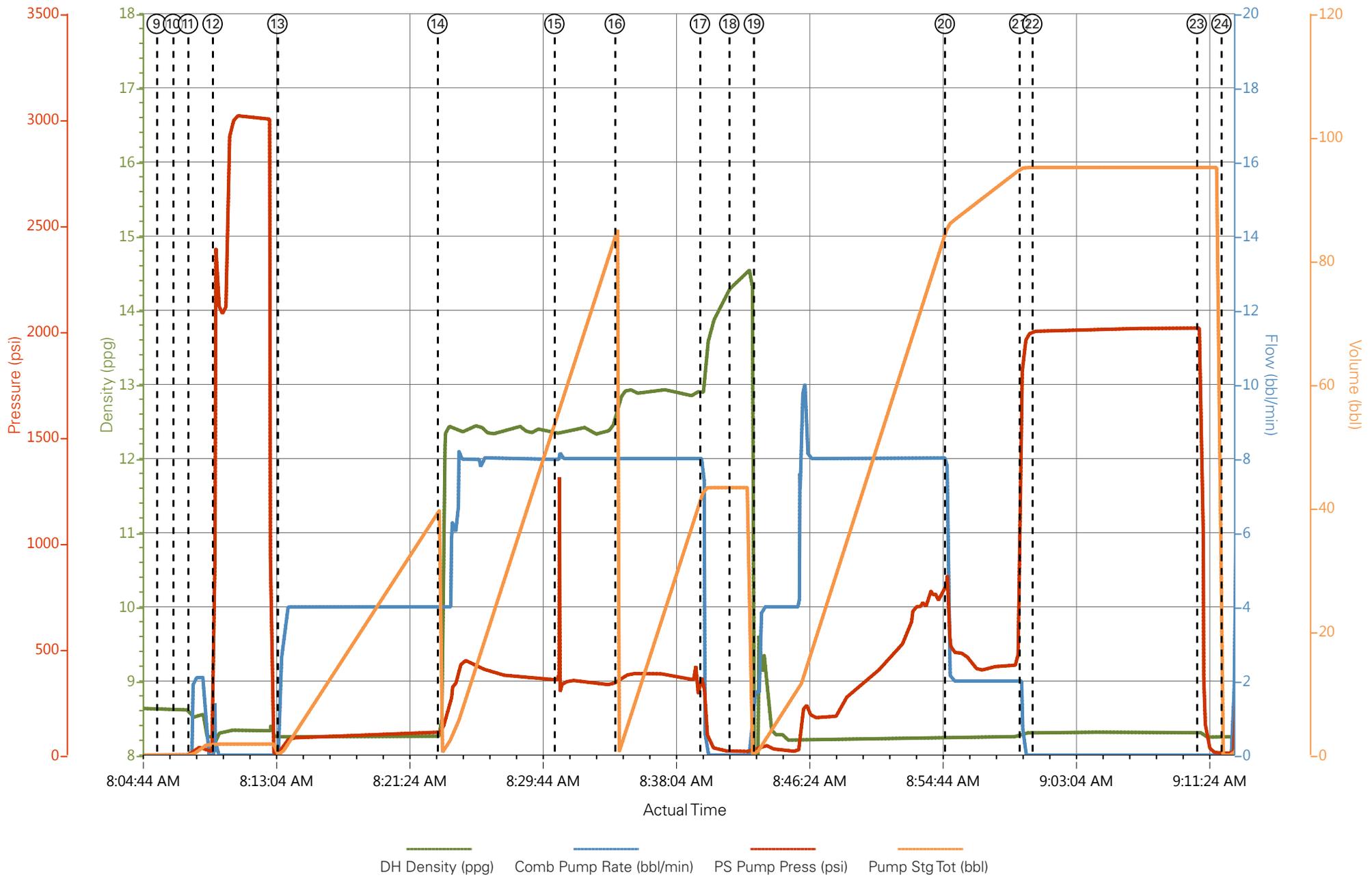
1.0 Real-Time Job Summary

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	6/5/2017	00:00:00	USER					REQUESTED ON LOCARION AT 07:00
Event	2	Pre-Convoy Safety Meeting	6/5/2017	02:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	6/5/2017	02:15:00	USER					1 550 PU, 1 ELITE PUMP AND 1 660 BULK TRUCK
Event	4	Arrive At Loc	6/5/2017	03:30:00	USER					ARRIVED 3.5 HOURS EARLY RIG WAS RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	6/5/2017	03:45:00	USER					MET WITH CO REP AND WENT OVER NUMBERS AND JOB PROCEDURE. DID A WALK AROUND OF LOCATION AND COLLECTED WATER SAMPLE PH 7, CHL 0, TEMP 58F. WAITED ON CASING TO SPOT TRUCKS IN
Event	6	Pre-Rig Up Safety Meeting	6/5/2017	05:45:00	USER					FILLED OUT JSA AND SPOTTED TRUCKS IN.
Event	7	Rig-Up Equipment	6/5/2017	06:00:00	USER					RIGGED UP WHAT WE COULD STAYING OUT OF THE RED ZONE. COMPLETED RIG UP WHEN CASING WAS COMPLETE AT 0700
Event	8	Pre-Job Safety Meeting	6/5/2017	07:45:00	USER					MET WITH RIG CREW TO GO OVER JOB. ALL HES PRESENT
Event	9	Start Job	6/5/2017	08:05:47	COM5					TD 1562', TP 1556', SJ 1512' (44') CSG 8.625" 24# J-55, OH 11" MW 9.2 PPG, TOT 629', LEAD TO SURFACE. RIG CIRCULATED AT 10.5 BBLS/MIN FOR 30 MIN AT 250 PSI BEFORE HANDING THE WELL OVER
Event	10	Drop Bottom Plug	6/5/2017	08:06:48	USER					PLUG WENT
Event	11	Prime Pumps	6/5/2017	08:07:44	USER	8.33	2	49	2	2 BBLS FRESH WATER
Event	12	Test Lines	6/5/2017	08:09:16	COM5			3000		TESTED TO 3000 PSI. KO'S FUNCTIONING. TESTED WELL
Event	13	Pump Spacer 1	6/5/2017	08:13:20	COM5	8.33	4	100	40	40 BBLS FRESH WATER
Event	14	Pump Lead Cement	6/5/2017	08:23:20	COM5	12.3	8	400	86	197 SKS (86 BBLS) 12.3 PPG, 2.46 FT3/SK, 14.17 GAL/SK

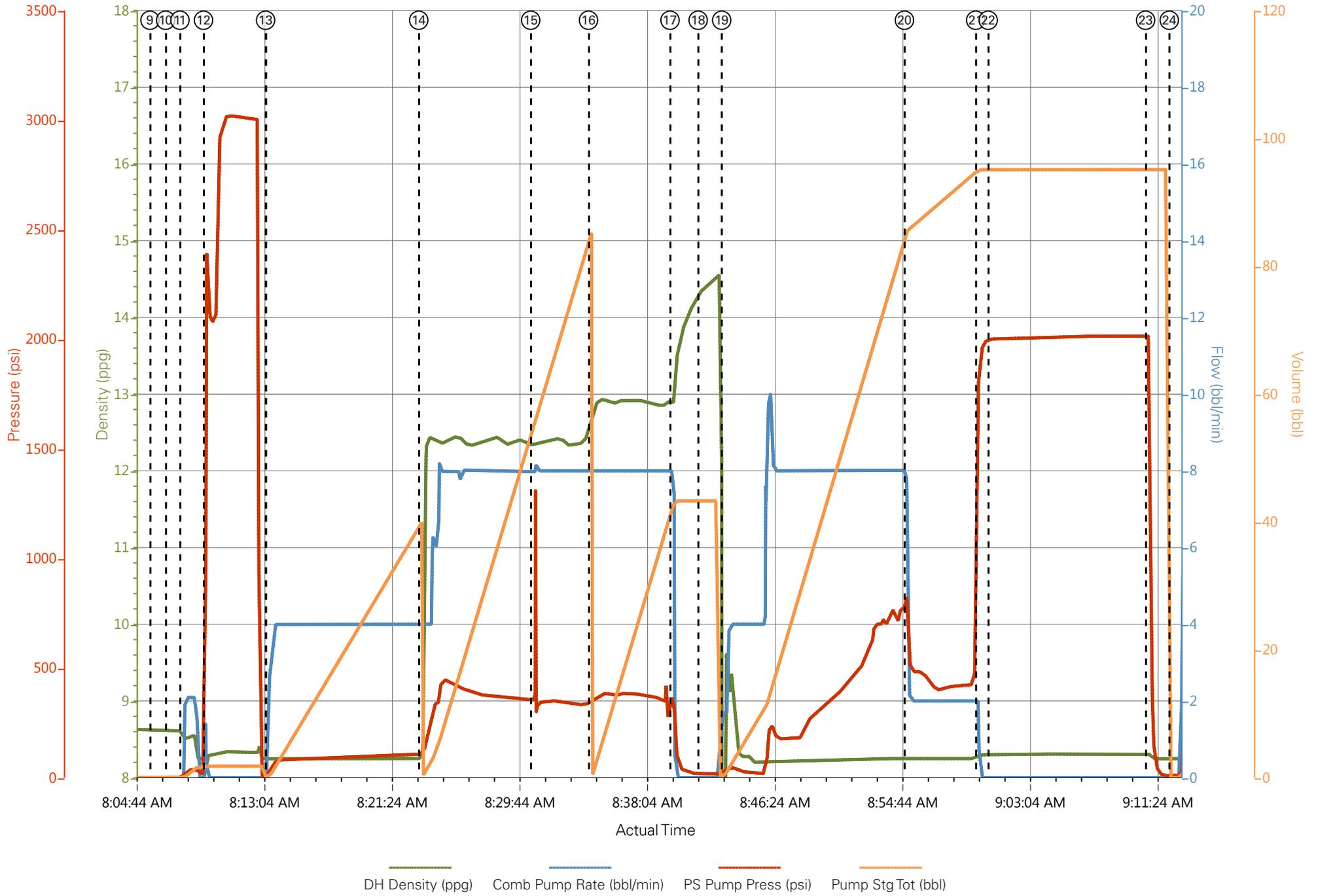
Event	15	Bump Plug	6/5/2017	08:30:38	USER					BOTTOM PLUG LANDED
Event	16	Pump Tail Cement	6/5/2017	08:34:25	COM5	12.8	8	390	42	109 SKS (42 BBLS) 12.8 PPG, 2.18 FT3/SK, 12.11 GAL/SK
Event	17	Shutdown	6/5/2017	08:39:44	USER					END OF CEMENT
Event	18	Drop Top Plug	6/5/2017	08:41:34	USER					PLUG WENT WITNESSED BY CO REP
Event	19	Pump Displacement	6/5/2017	08:43:07	COM5	8.33	8	820	96	WASHED ON TOP OF PLUG. 96 BBLS FRESH WATER
Event	20	Slow Rate	6/5/2017	08:55:03	USER	8.33	2	480	86	SLOWED TO 2 BBLS/MIN TO LAND THE PLUG
Event	21	Bump Plug	6/5/2017	08:59:42	COM5			520		LANDED AT 520 AND WENT TO 2000 FOR CASING TEST
Event	22	Test Casing	6/5/2017	09:00:31	USER			2000		TESTED AT 2000 PSI FOR 10 MIN
Event	23	Slow Rate	6/5/2017	09:10:47	USER			2020		FLOATS HELD. 1 BBL BACK TO TRUCK
Event	24	End Job	6/5/2017	09:12:20	COM5					GREAT RETURNS THROUGHOUT JOB. 26 BBLS OF LEAD TO SURFACE
Event	25	Pre-Rig Down Safety Meeting	6/5/2017	09:15:00	USER					ALL HES PRESENT
Event	26	Rig Down Lines	6/5/2017	09:25:00	USER					
Event	27	Pre-Convoy Safety Meeting	6/5/2017	10:00:00	USER					ALL HES PRESENT
Event	28	Crew Leave Location	6/5/2017	10:15:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT.. CLIFF SPARKS AND CREW

LARAMIE GUNDERSON 20-03W 8.625" SURFACE



⑨ Start Job
⑩ Drop Bottom Plug
⑪ Prime Pumps
⑫ Test Lines
⑬ Pump Spacer 1
⑭ Pump Lead Cement
⑮ Bump Plug
⑯ Pump Tail Cement
⑰ Shutdown
⑱ Drop Top Plug
⑲ Pump Dis

LARAMIE GUNDERSON 20-03W 8.625" SURFACE



HALLIBURTON

iCem[®] Service

LARAMIE ENERGY II LLC

For: Laramie

Date: Friday, June 09, 2017

GUNDERSON 20-03W Production

API# 05-077-10338

Sincerely,

Grand Junction Cement Engineering

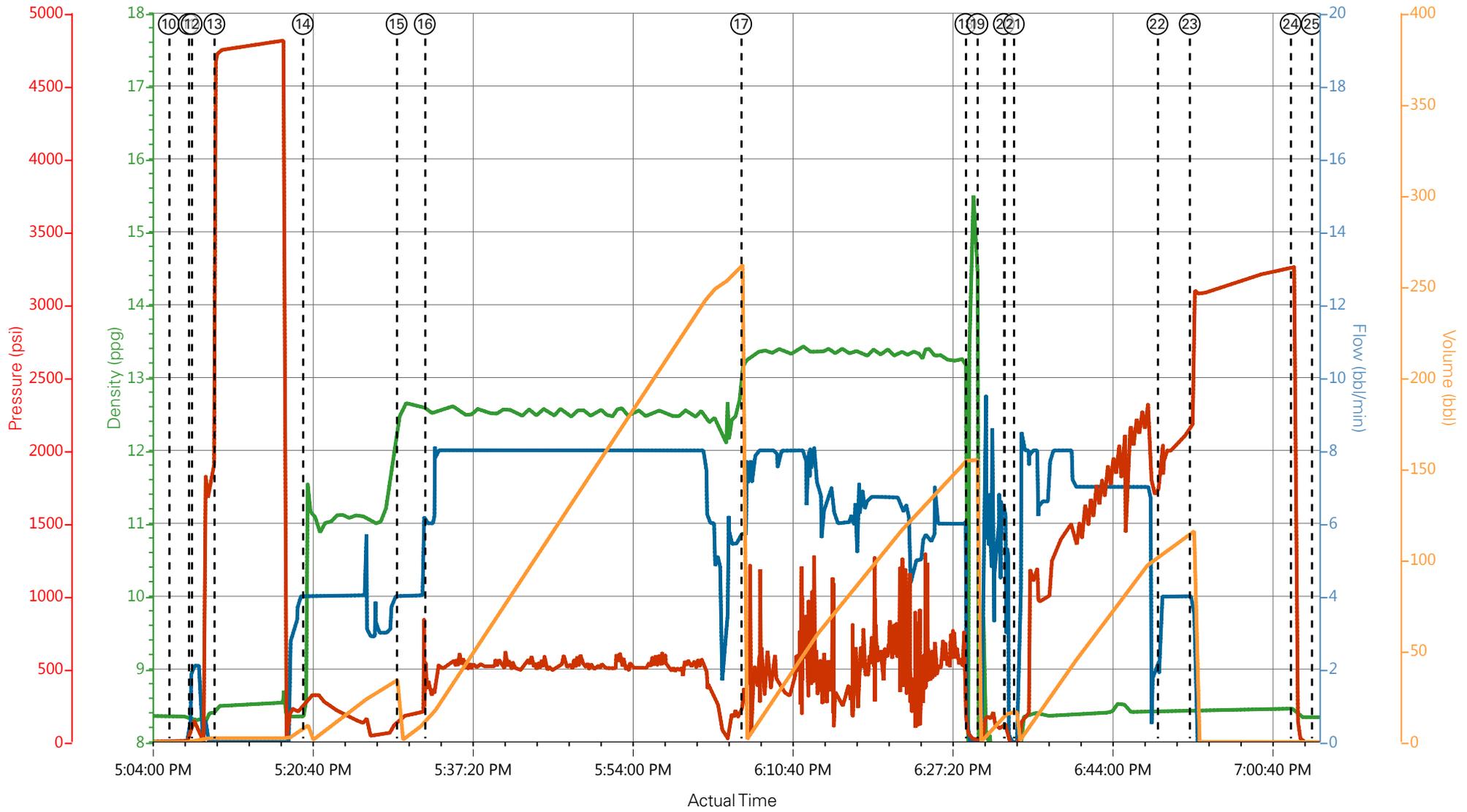
2.0 Real-Time Job Summary

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	6/9/2017	06:30:00	USER					ON LOCATION 12:00
Event	2	Pre-Convoy Safety Meeting	6/9/2017	09:15:00	USER					ALL HES PRESENT
Event	3	Depart from Service Center or Other Site	6/9/2017	09:30:00	USER					1-ELITE, 1-660 BULK TRAILER, 1-450 PICK UP
Event	4	Arrive At Loc	6/9/2017	11:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	6/9/2017	11:15:00	USER					MET WITH COMPANY REP DISCUSSED PROCEDURE AND OFFERED SDS
Event	6	Pre-Rig Up Safety Meeting	6/9/2017	11:45:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	6/9/2017	14:00:00	USER					1-ELITE, 1-660 BULK TRAILER, 2- FIELD SILO, 4" SUCTION HOSE, 2" PUMP IRON, 4.5" QUICK LATCH PLUG CONTAINER
Event	8	Pre-Job Safety Meeting	6/9/2017	15:35:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Other	6/9/2017	17:00:00	USER					RIG CIRCULATED 2 HOURS 8 BPM 880 PSI , WATER: PH-7, CL-0, TEMP-59
Event	10	Start Job	6/9/2017	17:06:00	USER	8.35	0.00	1.00	0.0	TD-7600', TP-7596' SET @ 7590, SJ-83', CSG-4.5" 11.6# L80, SCSG-8.625" 24# SHOE @ 1530', OH-7.875", MUD-9.5PPG
Event	11	Prime Pumps	6/9/2017	17:08:03	USER	8.31	2.00	166.00	2.0	FRESH WATER
Event	12	Drop Bottom Plug	6/9/2017	17:08:22	USER	8.28	2.10	140.00	1.0	PLUG AWAY
Event	13	Test Lines	6/9/2017	17:10:44	COM5	8.49	0.00	4735.00	2.1	ALL PRESSURE HELD ON LINES
Event	14	Pump Tuned Spacer	6/9/2017	17:19:57	COM5	11.00	4.00	301.00	40.0	TUNED SPACER III, 40 BBLS, 11.0PPG, 40.86CF/SK, 31.9GAL/SK

Event	15	Pump Lead Cement	6/9/2017	17:29:43	COM5	12.50	8.00	620.00	268.1	NEOCEM LEAD CEMENT 776SKS, 12.5PPG, 1.94CF/SK, 9.6GAL/SK
Event	16	Check weight	6/9/2017	17:32:39	COM5					WEIGHT VERIFIED BY PRESSURIZED MUD SCALES
Event	17	Pump Tail Cement	6/9/2017	18:05:38	COM5	13.30	7.00	706.00	131.6	THERMACEM TAIL CEMENT 427SKS, 13.3PPG, 1.73CF/SK, 7.81GAL/SK
Event	18	Shutdown	6/9/2017	18:29:00	USER					END OF CEMENT
Event	19	Clean Lines	6/9/2017	18:30:15	COM5					CLEANED PUMPS AND LINES INTO CELLAR
Event	20	Drop Top Plug	6/9/2017	18:33:00	USER					PLUG DROP WITNESSED BY COMPANY REP
Event	21	Pump Displacement	6/9/2017	18:34:02	COM5	8.35	8.00	2200.00	106.5	FRESH WATER WITH 5 GAL CLAWEB, 1GAL MMCR
Event	22	Slow Rate	6/9/2017	18:49:00	USER	8.40	4.00	1964.00	10.0	SLOW RATE LAST 10 BBLs
Event	23	Bump Plug	6/9/2017	18:52:22	COM5	8.42	4.00	2165.00	116.5	PLUG BUMPED 2165PSI
Event	24	Check Floats	6/9/2017	19:02:52	USER	8.46	0.00	3262.00	0.0	FLOATS HELD 1.5 BBLs BACK TO DISPLACEMENT TANK
Event	25	End Job	6/9/2017	19:05:04	COM5					GOOD RETURNS THROUGH OUT JOB, 10 BBLs TUNED SPACER TO SURFACE
Event	26	Pre-Rig Down Safety Meeting	6/9/2017	19:07:00	USER					ALL HES PRESENT
Event	27	Rig-Down Completed	6/9/2017	20:20:00	USER					RIG DOWN COMPLETED SAFELY
Event	28	Pre-Convoy Safety Meeting	6/9/2017	20:30:00	USER					ALL HES PRESENT
Event	29	Crew Leave Location	6/9/2017	21:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

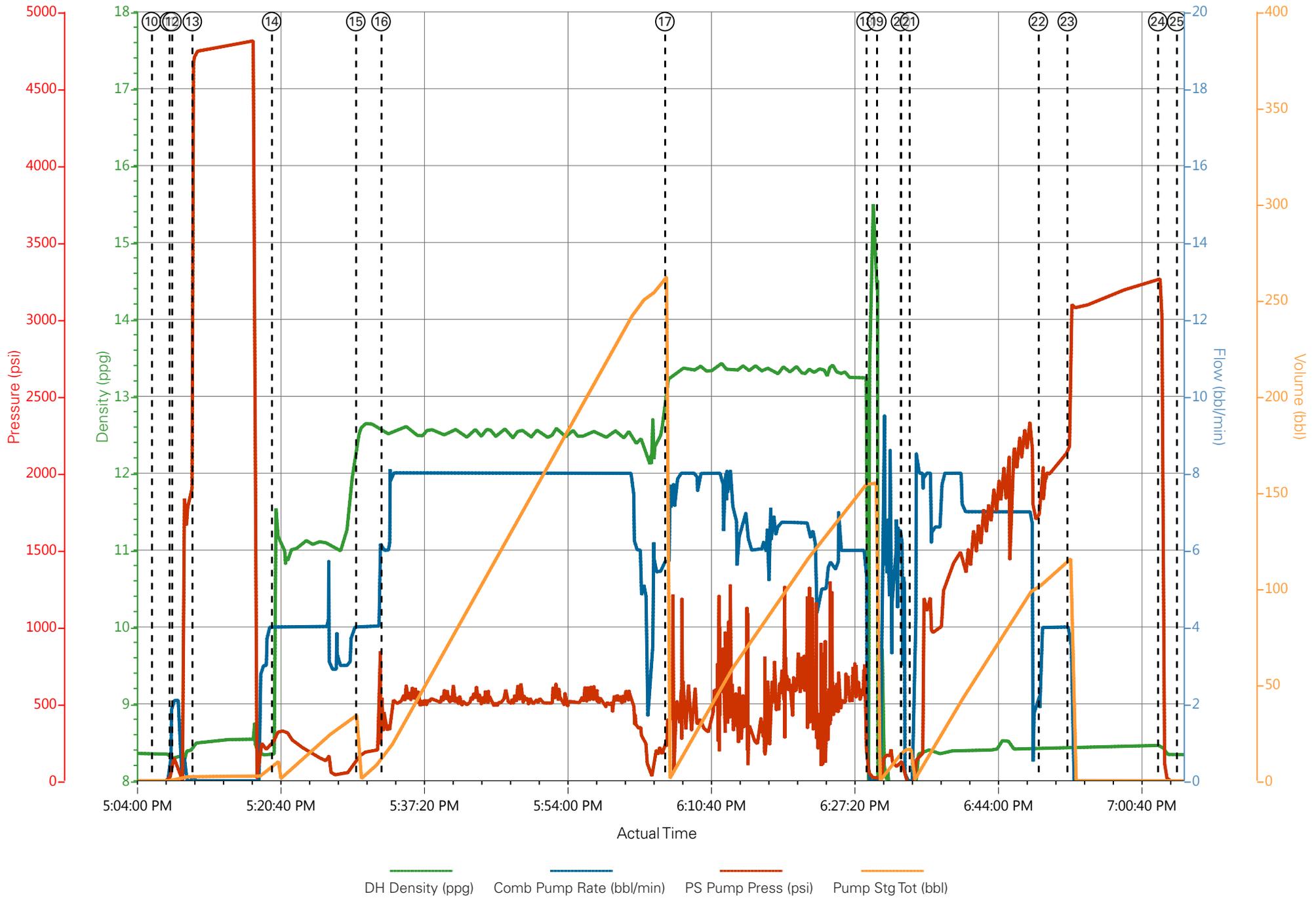
LARAMIE - GUNDERSON 20-03W - 4.5" PRODUCTION



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

- ① Call Out n/a;n/a;n/a;n/a
- ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
- ③ Depart from Service Center or Other Site n/a;n/a;n/a;n/a
- ④ Arrive At Loc n/a;n/a;n/a;n/a
- ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a
- ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a
- ⑦ Rig-Up Completed 8.53;0;1;19.5
- ⑧ Pre-Job Safety Meeting 8.5;0;3;19.5
- ⑨ Other 8.35;0;1;0
- ⑩ Start Job 8.35;0;1;0
- ⑪ Prime Pumps 8.31;2.1;166;0.3
- ⑫ Drop Bottom Plug 8.28;2.1;140;1
- ⑬ Test L
- ⑭ Pump
- ⑮ Pump

LARAMIE - GUNDERSON 20-03W - 4.5" PRODUCTION



Job Information

Request/Slurry	2392074/1	Rig Name	H&P 522	Date	04/JUN/2017
Submitted By	Aaron Woolsey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Gunderson BCU 20-03W

Well Information

Casing/Liner Size	4.5 in	Depth MD	7611 ft	BHST	113°C / 235°F
Hole Size	7.875 in	Depth TVD	7554 ft	BHCT	76°C / 168°F
Pressure	4588 psi				

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™ Cement				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		

Operation Test Results Request ID 2392074/1

Thickening Time - ON-OFF-ON, Request Test ID:34599351

07/JUN/2017

Test Temp (°F)	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)
168	4588	39	3:07	3:57	4:25	4:55	13	49	15	16

These are draft results and have not been approved for final use.

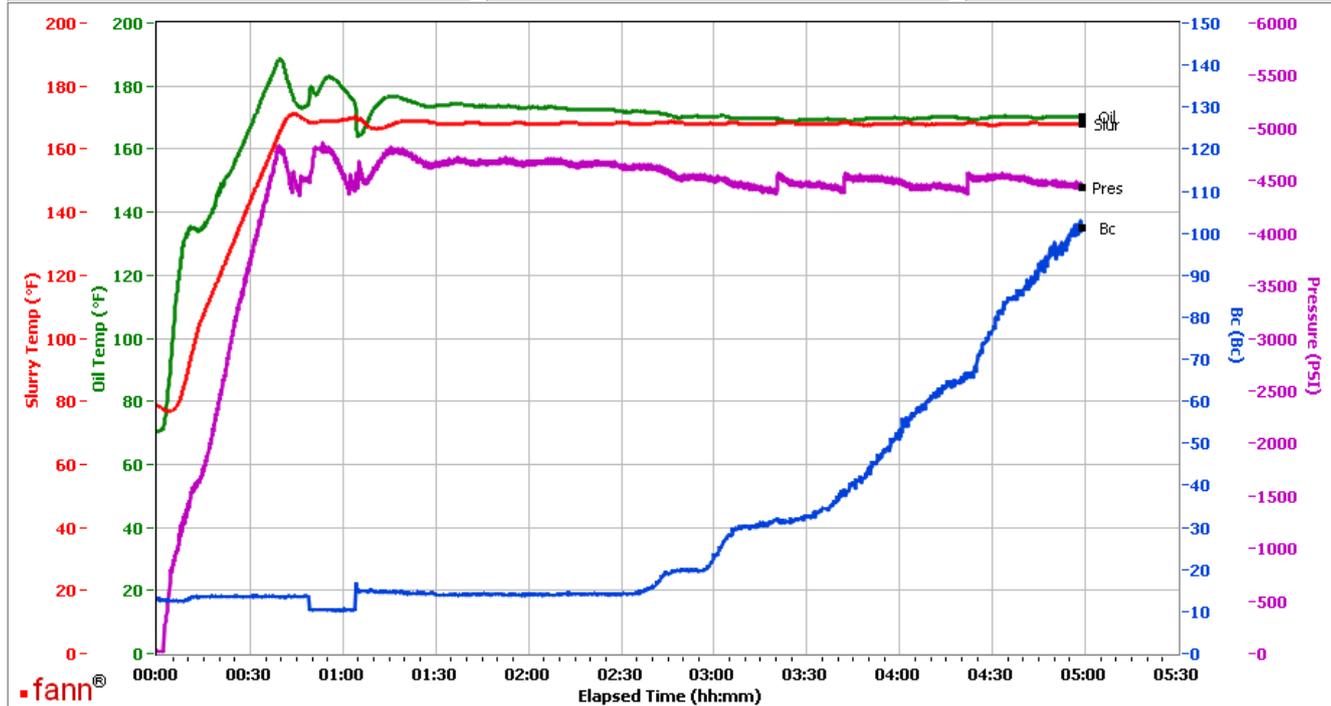
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Grand Junction Colorado

Fields	Values
Project Name	2392074-1 LARAMIE ENERGY 12.5 PPG BULK
Test ID	2392074-1 TT
Request ID	2392074-1
Tested by	CT
Customer	LARAMIE ENERGY
Well No	GUNDERSON BCU 20-03W
Rig	H&P 522
Casing/Liner Size	4.5 INCH

Fields	Values
Job Type	PRODUCTION CASING
Cement Type	TYPE I-II
Cement Weight	Standard
Test Date	06/06/17
Test Time	07:23 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:07m
40.00 Bc	03h:44m
50.00 Bc	03h:57m
70.00 Bc	04h:25m
100.00 Bc	04h:55m
00h:30m	13.79
01h:00m	10.49
01h:30m	13.95



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\0HU9OBIZ\GJ2392074-1 LARAMIE ENERGY BULK PRODUCTION LEAD TT[1].tdms
 Comments OPERATION COMPOSITE TT - CS1384, TRAILER 8678, 388 SKS - CS1386, TRAILER 1656, 388 SKS

Total sks = 776
 Composite:
 CS1384, Trailer 8678, 388 sks
 CS1386, Trailer 1656, 388 sks
 Deflected 10-- > 16

These are draft results and have not been approved for final use.

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Job Information

Request/Slurry	2392075/1	Rig Name	H&P 522	Date	04/JUN/2017
Submitted By	Aaron Woolsey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Laramie Energy	Location	Garfield	Well	Gunderson BCU 20-03W

Well Information

Casing/Liner Size	4.5 in	Depth MD	7611 ft	BHST	113°C / 235°F
Hole Size	7.875 in	Depth TVD	7554 ft	BHCT	76°C / 168°F
Pressure	4588 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		

Operation Test Results Request ID 2392075/1

Thickening Time - ON-OFF-ON, Request Test ID:34599353

07/JUN/2017

Test Temp (°F)	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)
168	4588	39	2:52	3:01	3:12	3:33	21	49	15	16

These are draft results and have not been approved for final use.

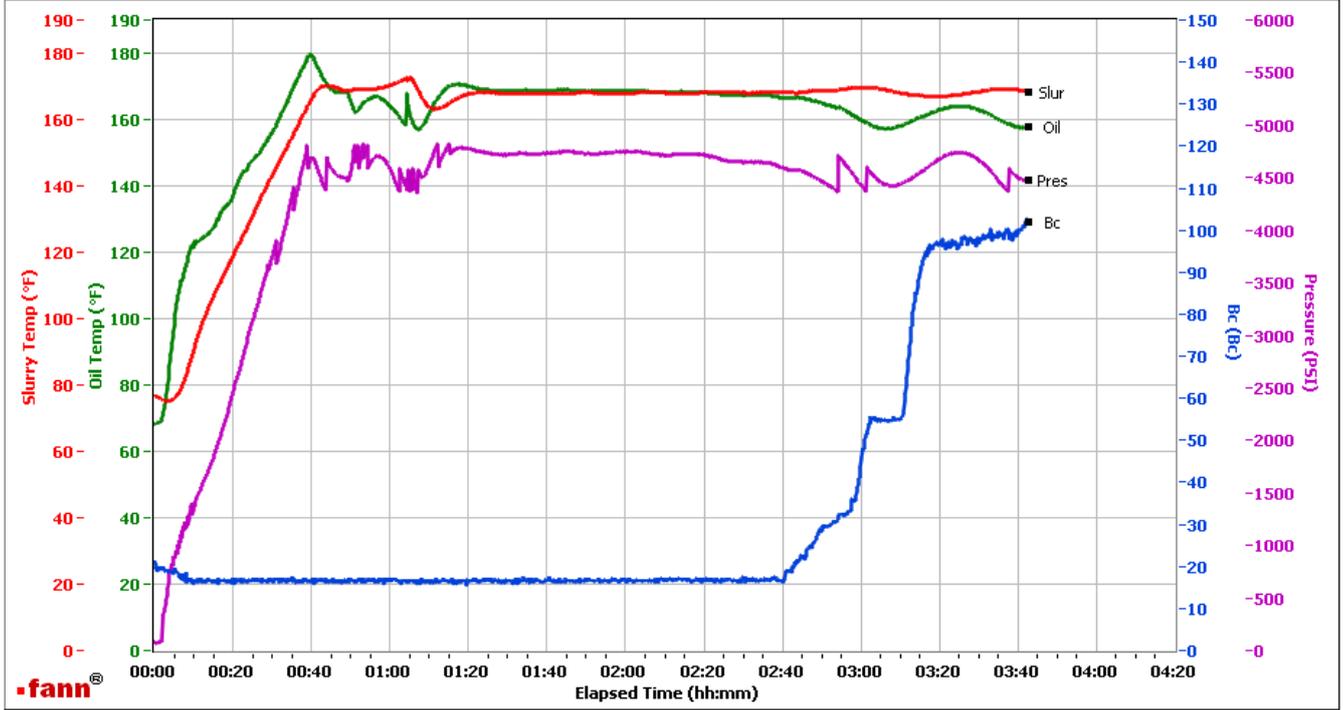
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Grand Junction Colorado

Fields	Values
Project Name	2392075-1 LARAMIE ENERGY 13.3 PPG BULK
Test ID	2392075-1 TT
Request ID	2392075-1
Tested by	CT
Customer	LARAMIE ENERGY
Well No	GUNDERSON BCU 20-03W
Rig	H&P 522
Casing/Liner Size	4.5 INCH

Fields	Values
Job Type	PRODUCTION CASING
Cement Type	MOUNTAIN G
Cement Weight	Standard
Test Date	07/14/10
Test Time	05:50 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.1219

Events	Results
30.00 Bc	02h:52m
40.00 Bc	02h:59m
50.00 Bc	03h:01m
70.00 Bc	03h:12m
100.00 Bc	03h:33m
00h:30m	16.77
01h:00m	17.07
01h:30m	16.78



Data File: C:\Documents and Settings\HPHT\Desktop\Test Data\GJ2392075-1 LARAMIE ENERGY BULK PRODUCTION TAIL TT.tdms
 Comments: OPERATION TT - CS1385, TRAILER MT613, 427 SKS

Total sks = 427
 CS1385, Trailer MT613, 427 sks
 No deflection

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