

HALLIBURTON

iCem[®] Service

TEP ROCKY MOUNTAIN LLC

For: Terra

Date: Tuesday, March 28, 2017

TRAIL RIDGE 314-21-597 Production

API# 05-045-23341-00

Sincerely,

Grand Junction Cement Engineering

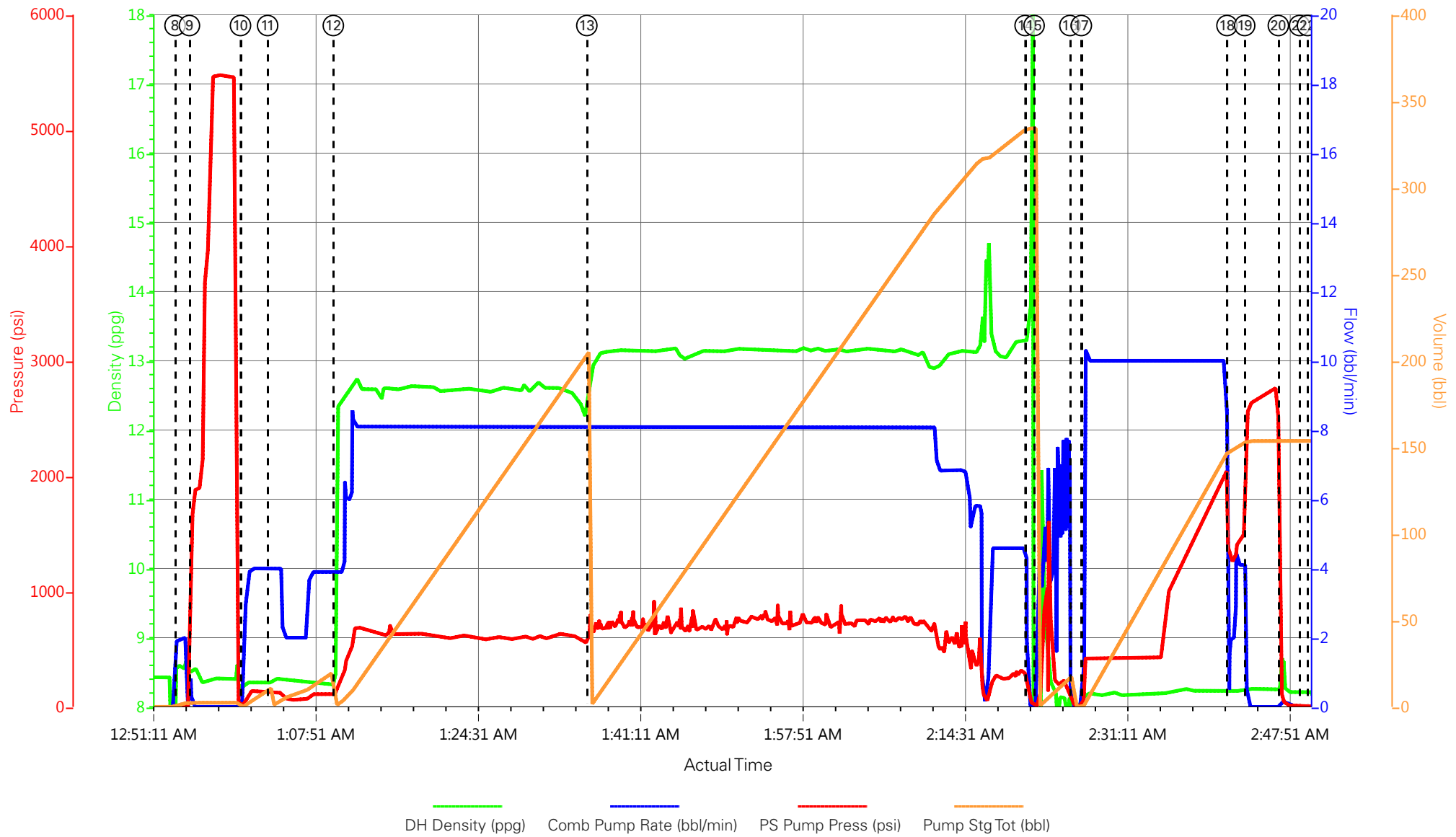
2.0 Real-Time Job Summary

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	Depart from Service Center or Other Site	3/27/2017	21:30:00	USER					DEPART FROM H&P 273
Event	2	Arrive at Location from Other Job or Site	3/27/2017	22:00:00	USER					RIG WAS RUNNING CASING UPON ARRIVAL.
Event	3	Assessment Of Location Safety Meeting	3/27/2017	22:30:00	USER					WITH ALL HES EMPLOYEES.
Event	4	Spot Equipment	3/27/2017	22:40:00	USER					1-F550 PICKUP 1-ELITE 1-660 BULK TRUCK 2-1700 CU. FT. SILOS
Event	5	Pre-Rig Up Safety Meeting	3/27/2017	22:50:00	USER					WITH ALL HES EMPLOYEES.
Event	6	Rig-Up Equipment	3/27/2017	23:00:00	USER					WATER TEST - PH-7.0 CHLORIDES-0 TEMP-58
Event	7	Pre-Job Safety Meeting	3/27/2017	23:04:29	USER					WITH ALL HES EMPLOYEES AND RIG CREW.
Event	8	Start Job	3/28/2017	00:53:45	COM5					TD-9547' TP-9537' SJ-25.1' MW-9.0# HOLE-8 3/4" CASING-4 1/2" 11.6 PPF.
Event	9	Test Lines	3/28/2017	00:55:13	COM5	8.33	0.00	5480.00	2.4	TESTED LINES TO 5480 PSI.
Event	10	Fresh Water Spacer	3/28/2017	01:00:28	COM5	8.29	4.00	140.00	10.0	FRESH WATER SPACER. 10 BBLS.
Event	11	Mud Flush Spacer	3/28/2017	01:03:15	COM5	8.35	4.00	129.00	20.0	MUD FLUSH SPACER. 20 BBLS.
Event	12	Pump Lead Cement	3/28/2017	01:09:59	COM5	12.53	8.00	685.00	184.8	535 SKS. NeoCem @ 12.5 PPG. 1.94 YIELD 9.57 GAL/SK. 184.8 BBLS.
Event	13	Pump Tail Cement	3/28/2017	01:36:01	COM5	13.07	8.00	800.00	285.7	775 SKS NeoCem @ 13.0 PPG. 2.07 YIELD 9.43 GAL/SK. 285.7 BBLS.
Event	14	Shutdown	3/28/2017	02:21:00	COM5		0.00	0.00	0.0	
Event	15	Clean Lines	3/28/2017	02:21:56	COM5	8.33	6.00	11.00	12.0	WASH PUMPS AND LINES TO THE PIT.

Event	16	Drop Top Plug	3/28/2017	02:25:36	COM5					THE PLUG LEFT THE PLUG CONTAINER. VERIFIED BY THE TATTLE TAIL.
Event	17	Pump Displacement	3/28/2017	02:26:47	COM5	8.34	10.0	2030.00		KCL WATER DISPLACEMENT WITH 2 GALLONS OF MMCR AND 5 LBS OF BE-6.
Event	18	Slow Rate	3/28/2017	02:41:44	COM5	8.33	4.00	1265.00	137.0	SLOW RATE TO LAND THE PLUG.
Event	19	Bump Plug	3/28/2017	02:43:33	COM5	8.36	4.00	1470.00	147.0	PLUG LANDED AT 1470 PSI. PRESSURED UP TO 2650 PSI.
Event	20	Check Floats	3/28/2017	02:47:00	COM5	8.33	0.00	0.00	0.0	FLOATS HELD. 1 BBL.OFFFLOW BACK.
Event	21	End Job	3/28/2017	02:49:11	USER	8.32	0.00	0.00	0.0	THE WAS CIRCULATED AT 450 GPM. BEFORE STARTING THE JOB. GOOD CIRCULATION WHILE PUMPING SPACERS AND CEMENT. NO CIRCULATION WHILE PUMPING CEMENT. THE PIPE WAS NOT RECIPROCATED.
Event	22	Comment	3/28/2017	02:50:00	USER					THANK YOU FOR USING HALLIBURTON CEMENTING. BRANDON REEVES AND CREW.

TERRA ENERGY PARTNERS - TR 314-21-597 - 4 1/2" PRODUCTION



- | | | | |
|---|--|--------------------------------------|------------------------------------|
| ① Depart from Service Center or Other Site n/a;n/a;n/a;n/a | ⑦ Pre-Job Safety Meeting n/a;n/a;n/a;n/a | ⑬ Pump Tail Cement 12.78;8.1;800;0.2 | ⑰ Bump Plug 8.26;0;2578;153.6 |
| ② Arrive at Location from Other Job or Site n/a;n/a;n/a;n/a | ⑧ Start Job 8.58;2;17;0.9 | ⑭ Shutdown 13.59;0;91;334.3 | 20 Check Floats 8.33;0.2;107;153.6 |
| ③ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑨ Test Lines 8.54;0;1659;2.4 | ⑮ Clean Lines 0.1;1.6;11;0.1 | 21 End Job 8.22;0;5;153.7 |
| ④ Spot Equipment n/a;n/a;n/a;n/a | ⑩ Fresh Water Spacer 8.29;1;15;0.1 | ⑯ Drop Top Plug -0.21;0;24;0 | 22 Comment 8.21;0;3;153.7 |
| ⑤ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑪ Mud Flush Spacer 8.35;4;129;0.1 | ⑰ Pump Displacement 8.13;9.8;415;0.6 | |
| ⑥ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑫ Pump Lead Cement 11;3.9;122;1.1 | ⑱ Slow Rate 8.23;2;1256;147.9 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2017-03-27 22:34:10, Version: 4.2.393

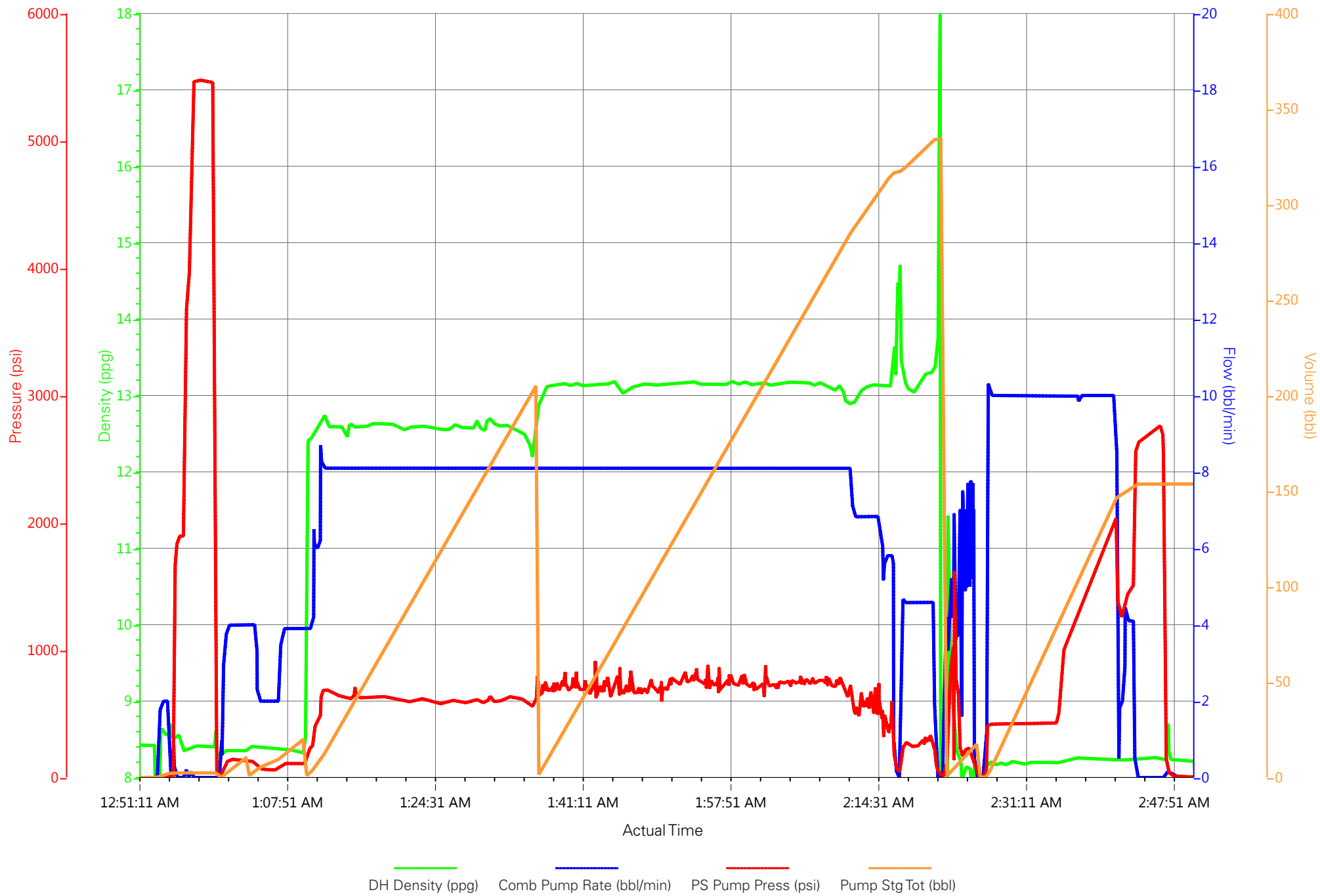
Edit

Customer: TEP ROCKY MOUNTAIN LLC
Representative: GARRETT WADE

Job Date: 3/27/2017 11:55:43 PM
Sales Order #: 903929881

Well: CHEVRON TRAIL RIDGE 314-21-597
Elite 4: ANTHONY ANDREWS

TERRA ENERGY PARTNERS - TR 314-21-597 - 4 1/2" PRODUCTION



Job Information

Request/Slurry	2376442/1	Rig Name	H&P 271	Date	24/MAR/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	TR 314-21-597

Well Information

Casing/Liner Size	4.5 in	Depth MD	9550 ft	BHST	114°C / 238°F
Hole Size	8.75 in	Depth TVD	9288 ft	BHCT	76°C / 168°F
Pressure	5800 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	10.4 lbm/gal
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Cement Information - Lead Design



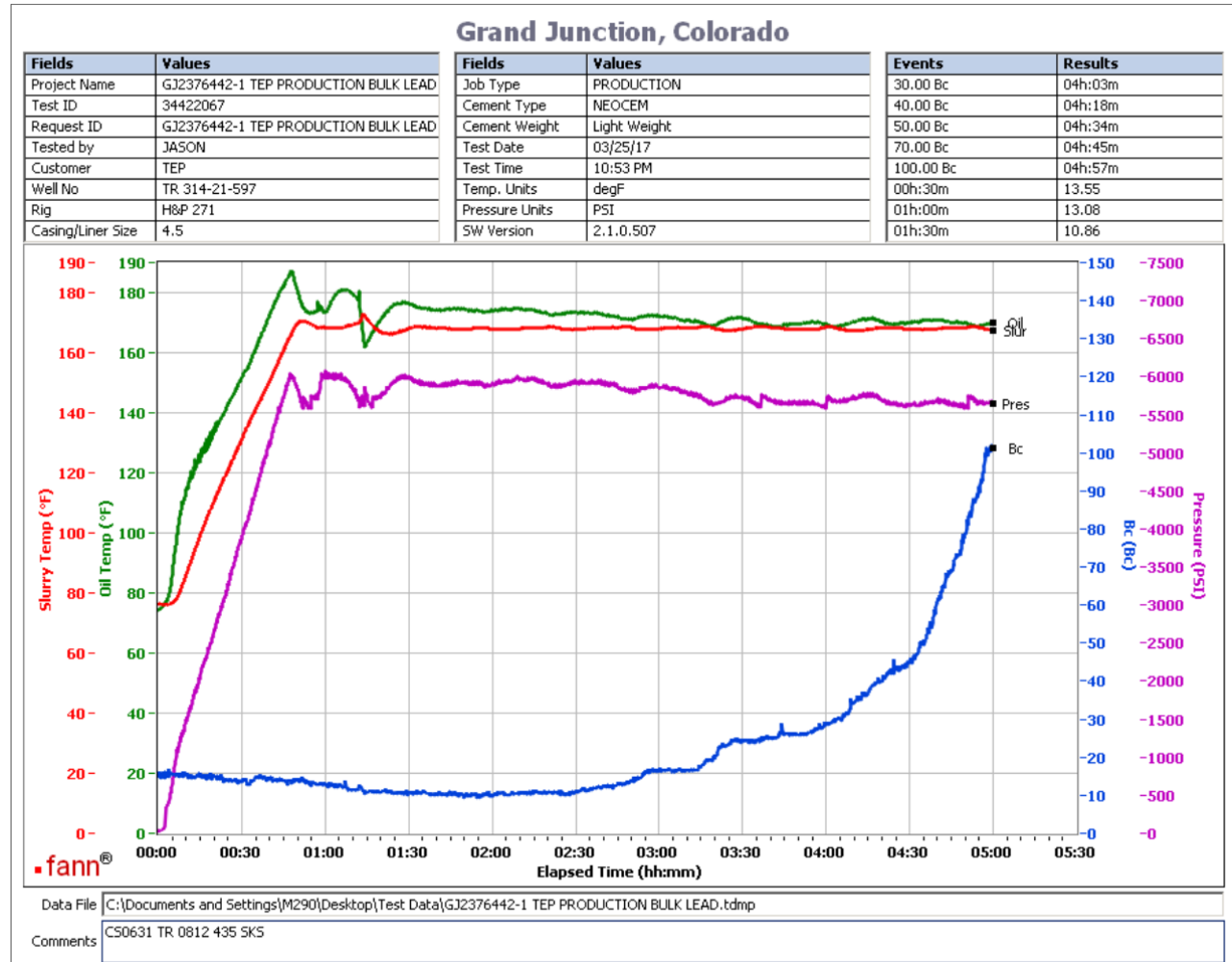
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem Lead				Slurry Density	12.5	lbm/gal
						Slurry Yield	1.941	ft3/sack
						Water Requirement	9.623	gal/sack
						Total Mix Fluid	9.623	gal/sack
						Water Source	Fresh Water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

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Thickening Time - ON-OFF-ON

25/MAR/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)
168	5800	47	4:03	4:34	4:45	4:57	15	57	15	13



Total Sacks= 535
CS0631 TR 0812 435 SKS
Deflected 12-- > 13

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Operation Test Results Request ID 2376442/2

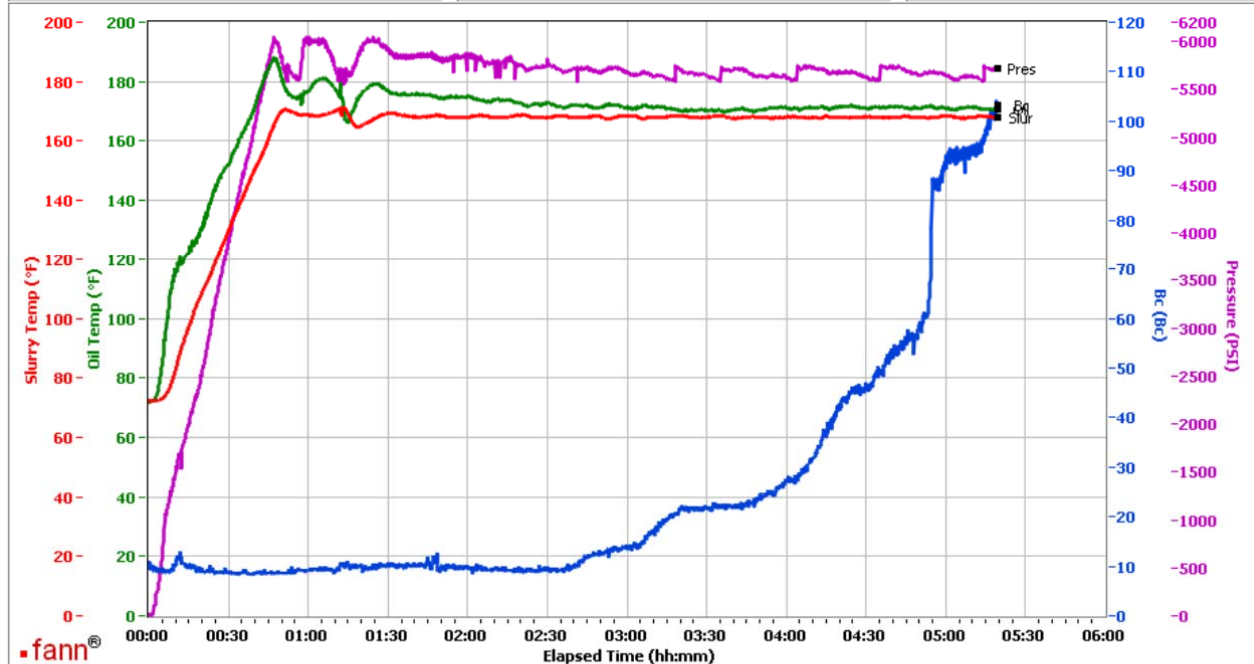
Thickening Time - ON-OFF-ON

26/MAR/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)
168	5800	47	4:07	4:34	4:54	5:16	10	57	15	10

Grand Junction, Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2376442-2	Job Type		30.00 Bc	04h:07m
Test ID	GJ2376442-2 TERRA BULK LEAD	Cement Type		40.00 Bc	04h:18m
Request ID		Cement Weight	Standard	50.00 Bc	04h:34m
Tested by	DEBA	Test Date	03/26/17	70.00 Bc	04h:54m
Customer	TERRA ENERGY PARTNERS	Test Time	06:53 PM	100.00 Bc	05h:16m
Well No	TR 314-21-597	Temp. Units	degF	00h:30m	8.86
Rig		Pressure Units	PSI	01h:00m	9.39
Casing/Liner Size		SW Version	2.1.0.507	01h:30m	10.61



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\0HU90BIZ\GJ2376442-2 TERRA BULK LEAD[1].tdms

Comments CS0644 TR#7094 FRONT 100 SKS

Total Sacks= 535
CS0444 TR 7094 Front 100 SKS
no deflection was observed.

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2376443/1	Rig Name	H&P 271	Date	24/MAR/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	TR 314-21-597

Well Information

Casing/Liner Size	4.5 in	Depth MD	9550 ft	BHST	114°C / 238°F
Hole Size	8.75 in	Depth TVD	9288 ft	BHCT	76°C / 168°F
Pressure	5800 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	10.4 lbm/gal
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Cement Information - Tail Design



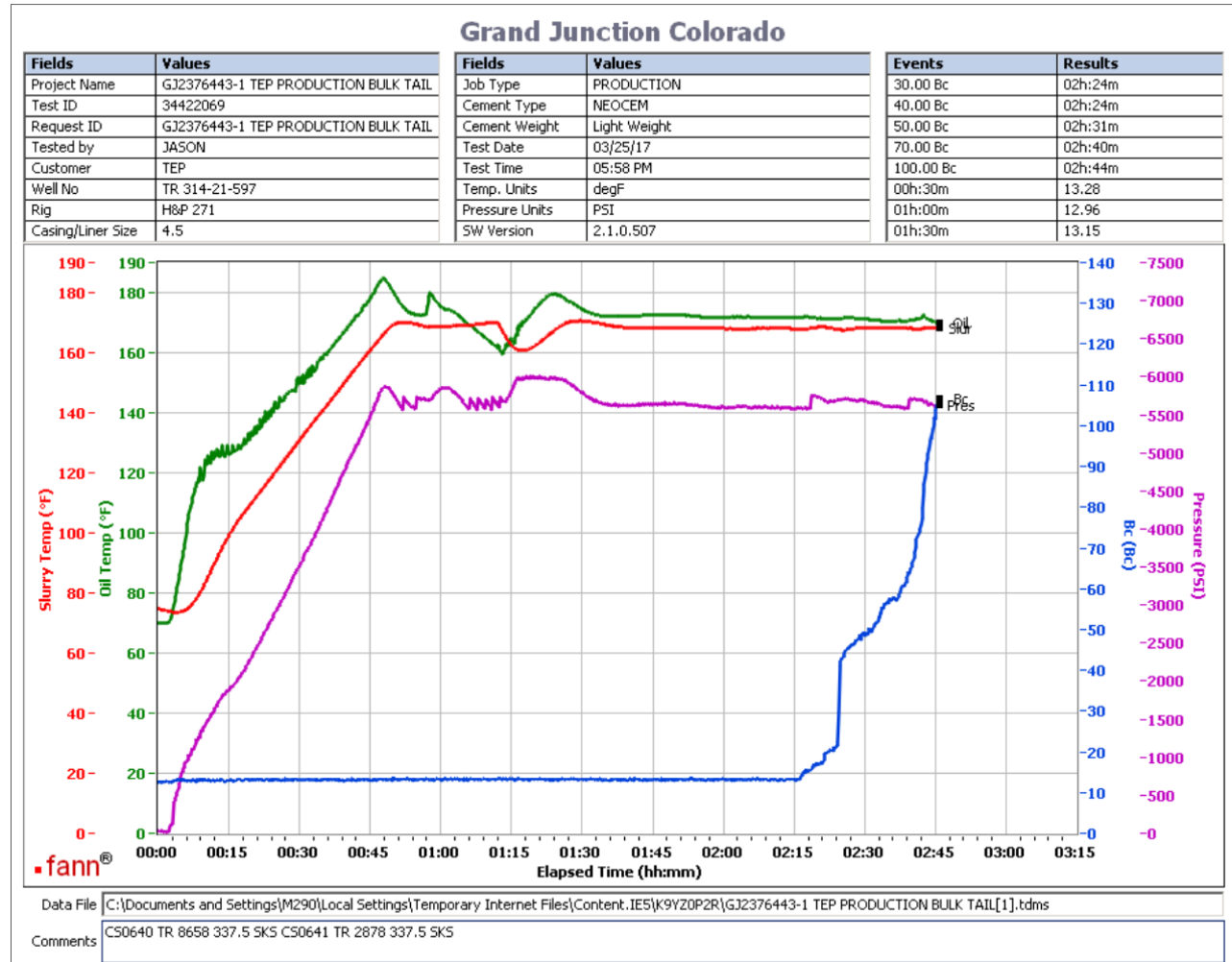
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem Tail				Slurry Density	13	lbm/gal
						Slurry Yield	2.065	ft3/sack
						Water Requirement	9.429	gal/sack
						Total Mix Fluid	9.429	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

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Thickening Time - ON-OFF-ON

25/MAR/2017

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168	5800	47	2:24	2:31	2:40	2:44	13	57	15	13



Total sks = 775
 CS0640 TR 8658 337.5 SKS
 CS0641 TR 2878 337.5 SKS
 Composite
 No deflection

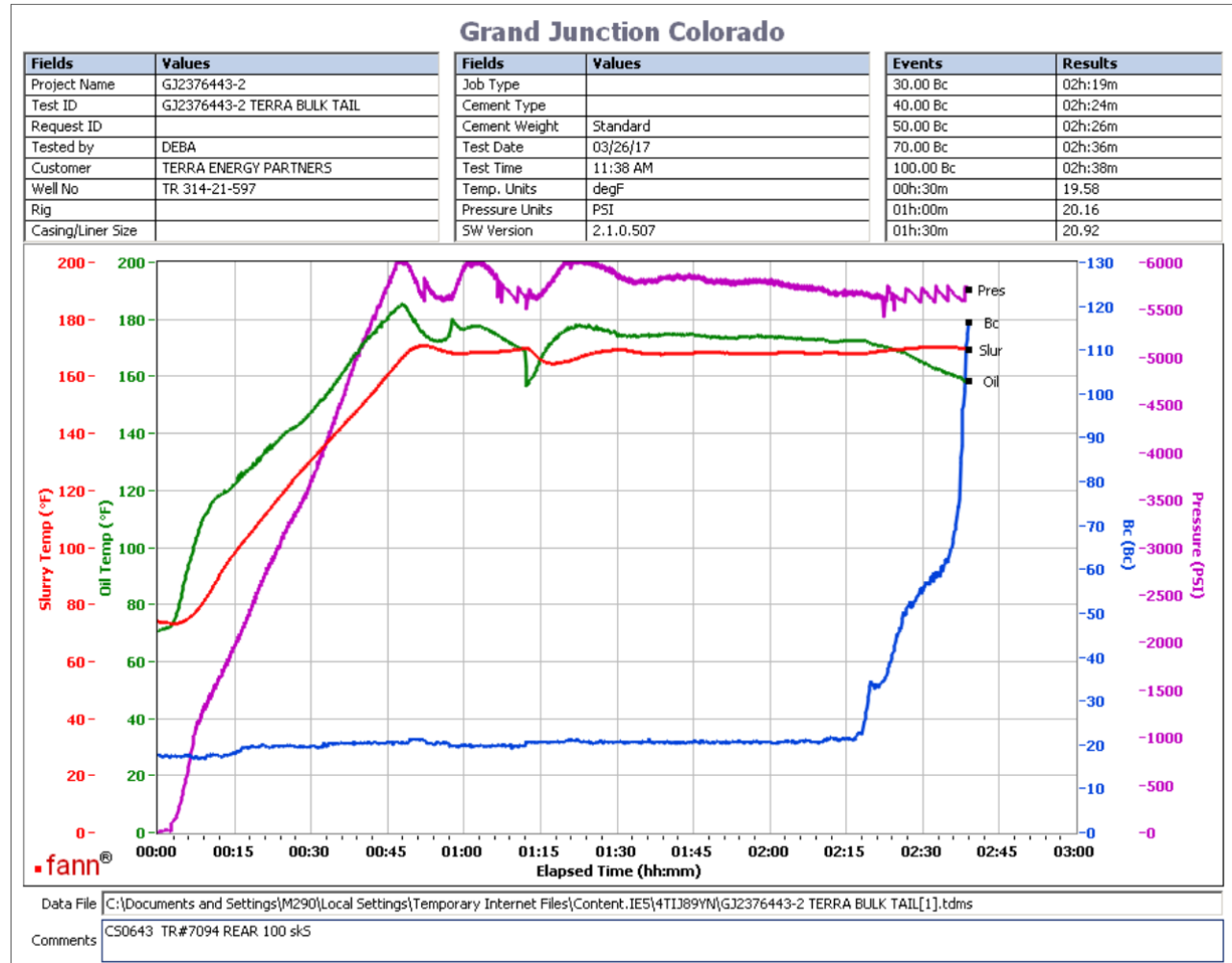
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Operation Test Results Request ID 2376443/2

Thickening Time - ON-OFF-ON

26/MAR/2017

Test Temp (°F)	Pressure (psi)	Reached in (min)	50 Bc (hh:mm)	70 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
168	5800	47	2:26	2:36	17	57	15	20



Total sks = 775

CS0643 TR 7094 100 SKS

no deflection was observed.

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