

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Monday, December 11, 2017

PA 42-26 Production PJR

API# 05-045-23642-00

Sincerely,

Grand Junction Cement Engineering

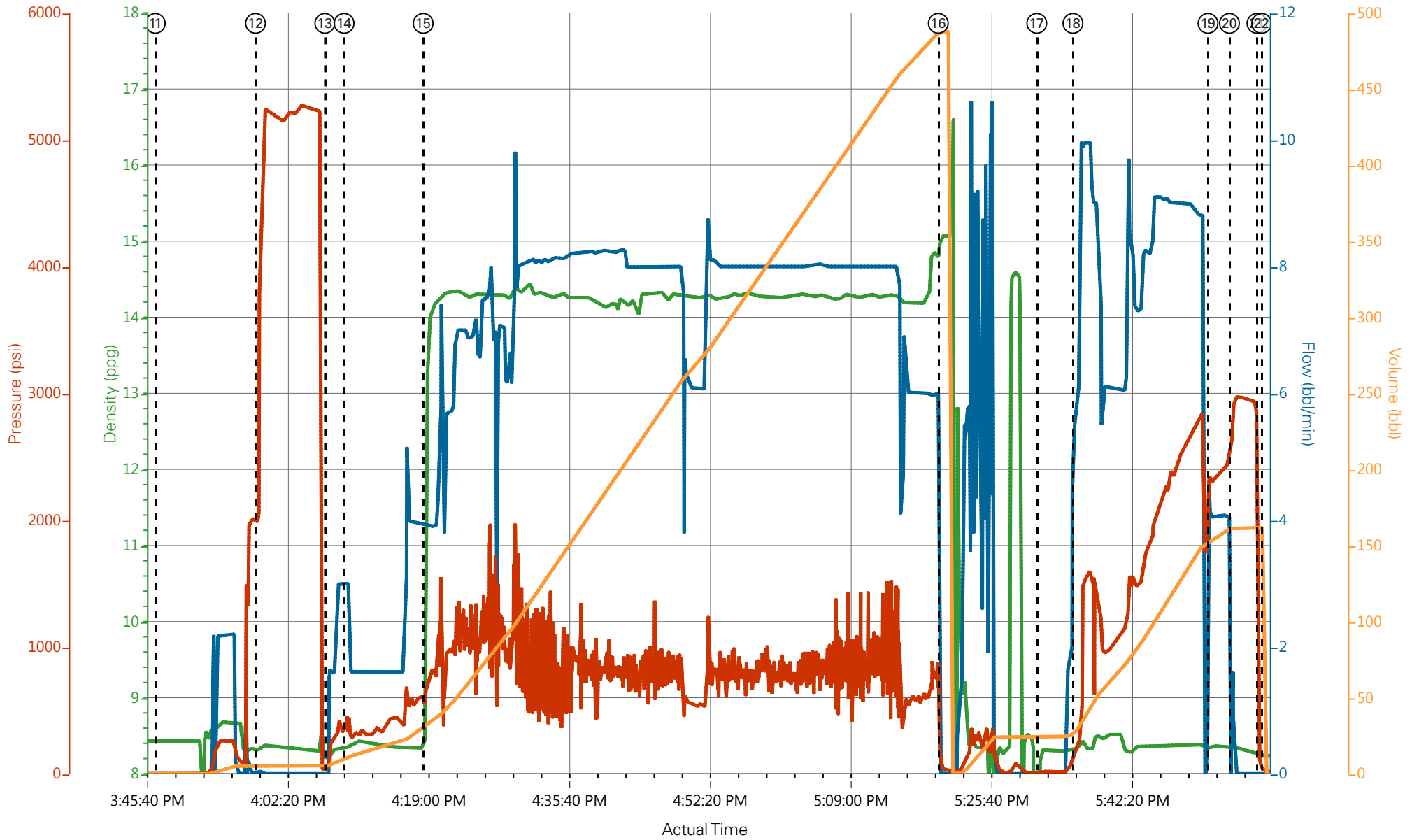
2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Driv-Side Pump Pressure (psi)	Combined Pump Total (bbl)	Comments
Event	1	Call Out	12/11/2017	07:00:00						Requested on Location @ 1300
Event	2	Pre-Convoy Safety Meeting	12/11/2017	09:30:00						ALL HES PRESENT
Event	3	Crew Leave Yard	12/11/2017	09:35:00						1 Elite, 1 660, 1 pickup
Event	4	Arrive At Loc	12/11/2017	11:35:00						Rig running casing
Event	5	Assessment Of Location Safety Meeting	12/11/2017	11:40:00						JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 80 degrees
Event	6	Pre-Rig Up Safety Meeting	12/11/2017	11:45:00						ALL HES PRESENT
Event	7	Rig-Up Equipment	12/11/2017	11:50:00						DME iron to ground manifold, standpipe, hardline to pit. Water hoses to both uprights, bulk hoses to silo and 660.
Event	8	Other	12/11/2017	14:25:16						Rig Circulated 460 gal/min for 1.5 Hours, 985BBLs, at 300 PSI, 300 units of gas.
Event	9	Pre-Job Safety Meeting	12/11/2017	14:30:22						All HES personnel, rig crew, and company rep.
Event	10	Prime Pumps	12/11/2017	14:42:58						Fresh water
Event	11	Start Job	12/11/2017	15:47:00						TTD 8466', TP 8460.33', SJ 27.35', OH 8.75'', Csg 4.5'' 11.6 lb/ft P-110 Prev. Csg. 9.625'' 36# @ 2982', Mud 12.15 ppg
Event	12	Test Lines	12/11/2017	15:58:52		8.33		5231		Held pressure 2 minutes

Event	13	Pump Spacer 1	12/11/2017	16:07:04	8.33	3.00	450	10.00	Fresh water
Event	14	Pump Spacer 2	12/11/2017	16:09:21	8.40	4	650	20.00	80 lbs. Mud Flush III
Event	15	Pump Cement	12/11/2017	16:18:43	14.20	8	1200	413.4	1670 sks 14.2 ppg 1.39 yield 6.36gal/sk,
Event	16	Shutdown	12/11/2017	17:19:44					Wash lines to pit
Event	17	Drop Top Plug	12/11/2017	17:31:24					Co-Rep Verify Plug Launched
Event	18	Pump Displacement	12/11/2017	17:35:41					3 lbs BE-6, 1 gal MMCR, 2% KCl
Event	19	Slow Rate	12/11/2017	17:51:41	8.33	9	2741	120.7	Slow Rate 10 bbls to Calculated Displacement
Event	20	Bump Plug	12/11/2017	17:54:13	8.33	4	2300	130.7	Plug Bumped at 2330 psi, Brought up to 2960 psi
Event	21	Check Floats	12/11/2017	17:57:29					1.5 BBL BACK TO TRUCK FLOAT HELD
Event	22	End Job	12/11/2017	17:58:02					Good returns throughout job. Pipe was reciprocated during job.
Event	23	Pre-Rig Down Safety Meeting	12/11/2017	18:30:00					No sugar, HES top plug used, 0 add hours
Event	24	Rig-Down Equipment	12/11/2017	18:35:00					ALL HES PRESENT
Event	25	Pre-Convoy Safety Meeting	12/11/2017	19:10:00					ALL HES PRESENT
Event	26	Crew Leave Location	12/11/2017	19:15:00					THANK YOU FOR USING HALLIBURTON CEMENT KEVIN BENNETT AND CREW

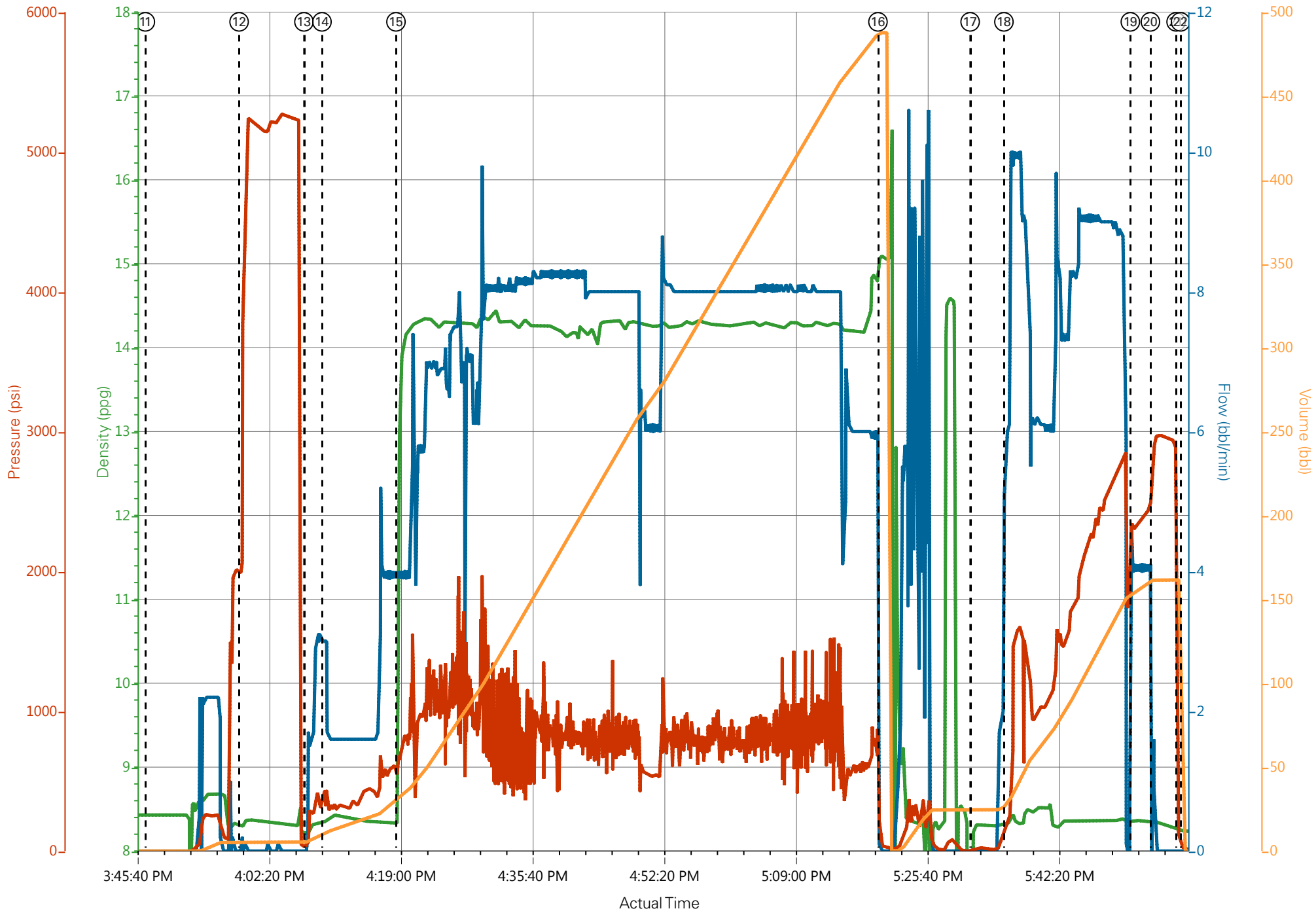
PA 42-26 PRODUCTION



DH Density (ppg) 11.88 Comb Pump Rate (bbl/min) 6.1 DS Pump Press (psi) 72 Comb Pump Total (bbl) 14.8

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|-------------------------------|-------------------------------------|--------------------------------------|--|--|
| 11 Safety Meeting 0.02;0;19;0 | 13 Pump Spacer 1 8.21;0;47.47;5.3 | 15 Drop Top Plug 8.25;0;8;24.5 | 17 Check Floats 8.25;0;81;161.6 | 19 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a |
| 12 Pumps 0.02;0;0;0 | 14 Pump Spacer 2 8.34;3;382.04;10.7 | 16 Pump Displacement 8.33;6;217;28.3 | 18 End Job 8.25;0;20;0 | 20 Crew Leave Location n/a;n/a;n/a;n/a |
| 13 Job 8.43;0;-1;0 | 15 Pump Cement 12.63;4;643.81;31.9 | 17 Slow Rate 8.36;4.1;2299;152.8 | 19 Pre-Rig Down Safety Meeting n/a;n/a;n/a;n/a | 21 Rig-Down Equipment n/a;n/a;n/a;n/a |
| 14 Lines 8.3;0.2;2814;5.3 | 16 Shutdown 15.12;0;52;487.7 | 18 Bump Plug 8.35;1.3;2759;161.6 | 20 | |

PA 42-26 PRODUCTION



DH Density (ppg) 11.88 Comb Pump Rate (bbl/min) 6.1 DS Pump Press (psi) 72 Comb Pump Total (bbl) 14.8

Job Information

Request/Slurry	2436506/1	Rig Name	H&P 271	Date	05/DEC/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	PA 42-26

Well Information

Casing/Liner Size	4.5 in	Depth MD	8430 ft	BHST	102°C / 215°F
Hole Size	8.75 in	Depth TVD	7927 ft	BHCT	63°C / 145°F
Pressure	4849 psi				

Drilling Fluid Information

Mud Supplier Name	AMC	Mud Trade Name		Density	
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Cement Information - Primary Design

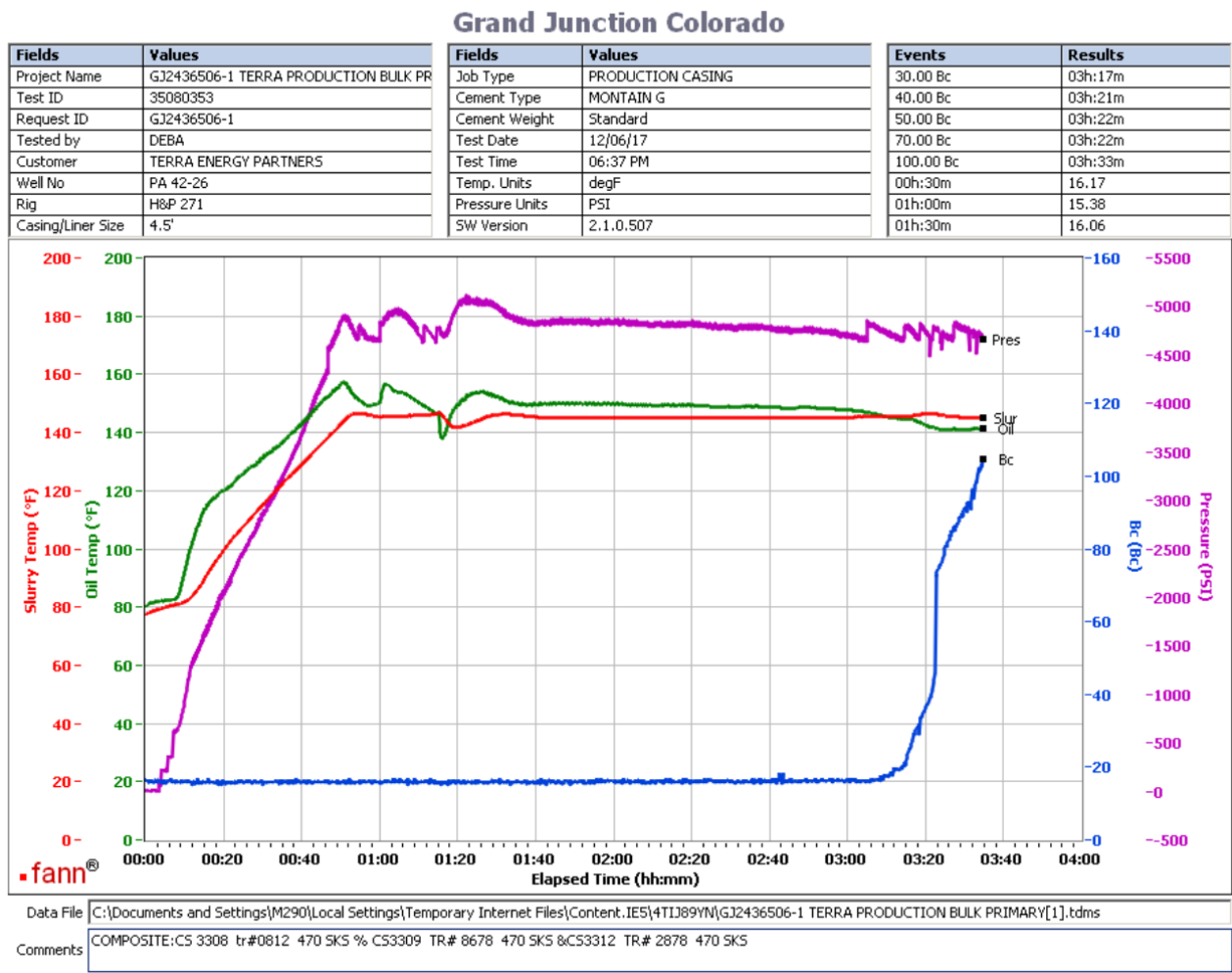
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		HalCem Primary				Slurry Density	14.2	lbm/gal
						Slurry Yield	1.387	ft3/sack
						Water Requirement	6.36	gal/sack
						Total Mix Fluid	6.36	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

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Thickening Time - ON-OFF-ON

07/DEC/2017

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)
145	4849	50	3:17	3:22	3:22	3:33	16	60	15	15



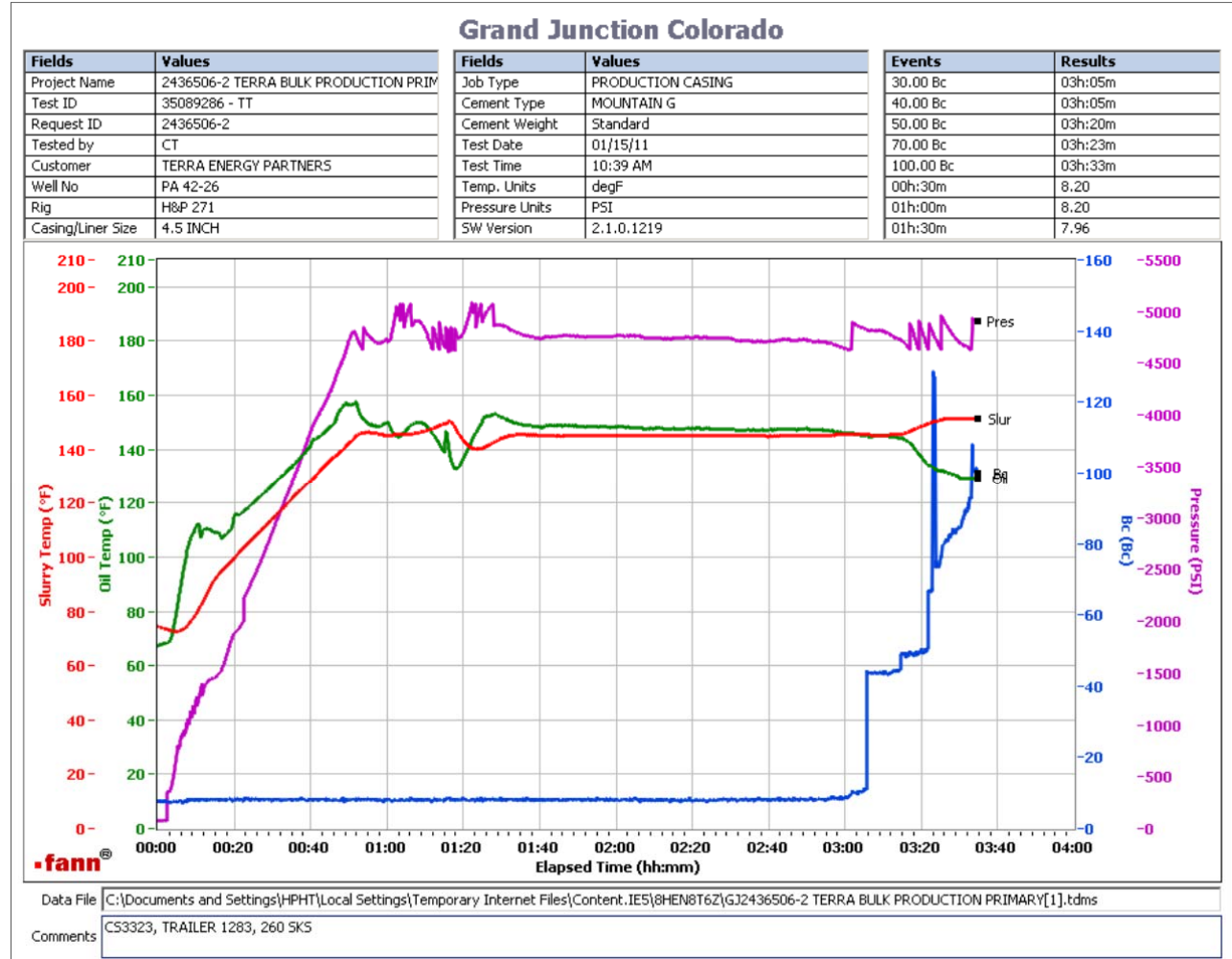
1670 sks Total
 composite:
 CS3309 TR#0812 470 sks
 CS3309 TR#8678 470 sks
 CS3312 TR#3878 470 sks
 Deflection: 15 – 15

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Operation Test Results Request ID 2436506/2

Thickening Time - ON-OFF-ON 08/DEC/2017

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)
145	4849	50	3:05	3:20	3:23	3:33	7	60	15	8



CS3323, Trailer 1283, 260 sks
 Deflection: 8 - 8

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