

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS-EBUS

For: Terra

Date: Thursday, September 21, 2017

GM 333-5 Production

API# 05-045-22669

Sincerely,

Grand Junction Cement Engineering

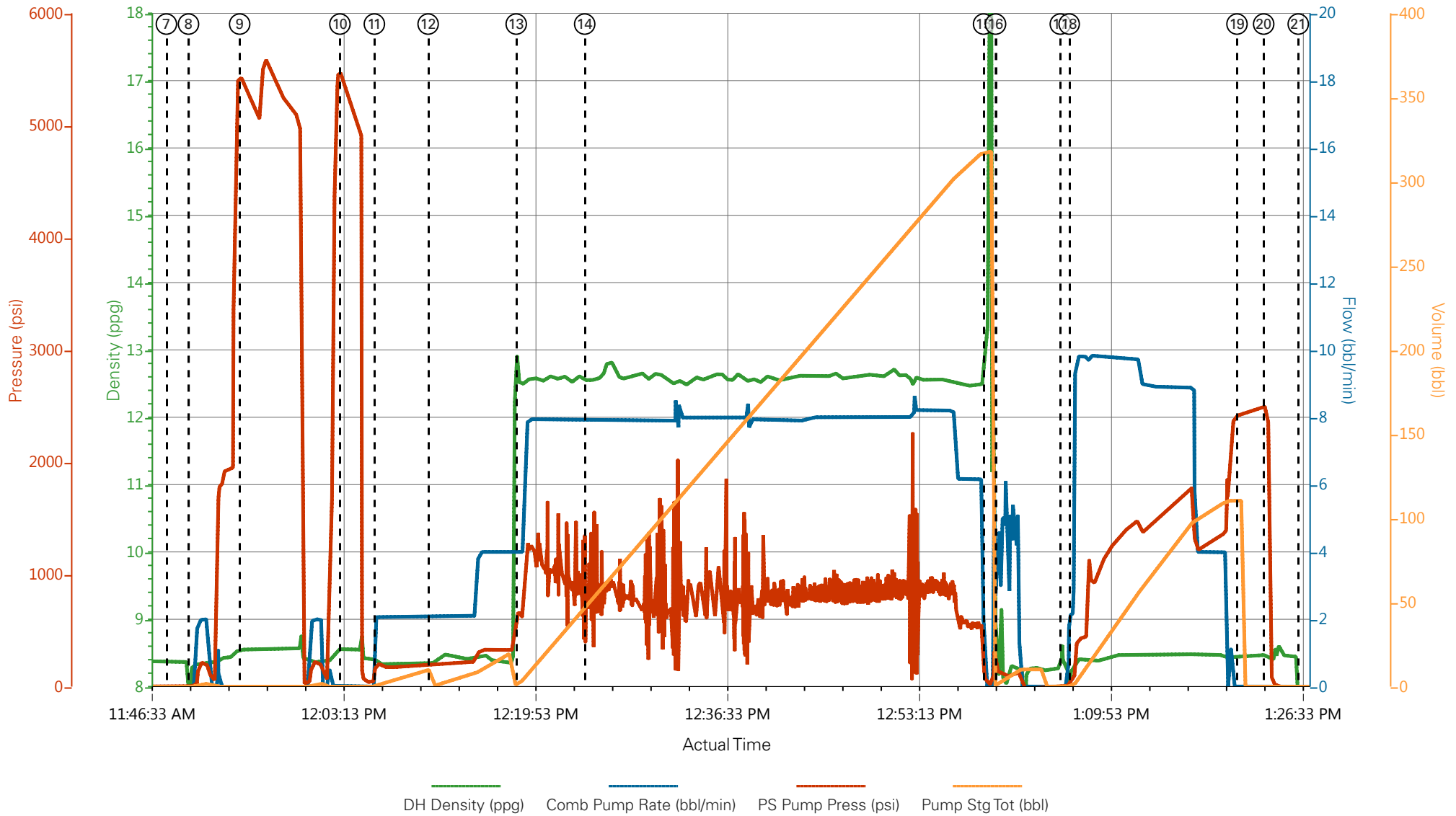
2.0 Real-Time Job Summary

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	9/21/2017	03:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	9/21/2017	09:00:00	USER					WITH ALL HES PERSONNEL
Event	3	Crew Leave Yard	9/21/2017	10:00:00	USER					FROM PREVIOUS JOB, RIG HAD 2 JOINTS LEFT TO RUN, THEN CIRCULATED UNTIL HEAD WAS RIGGED UP.
Event	4	PRE RIG UP SAFETY MEETING	9/21/2017	10:15:00	USER					WITH ALL HES PERSONNEL
Event	5	Rig-Up Equipment	9/21/2017	10:20:00	USER					
Event	6	Pre-Job Safety Meeting	9/21/2017	11:00:00	USER					WITH ALL ON LOCATION PERSONNEL
Event	7	Start Job	9/21/2017	11:48:06	COM5					4.5 11.6# TP-7158, TD, 7153, SJ-28.72, HOLE-8 3/4, MUD#-9.7, 9 5/8 SURFACE CASING SET AT 1202 32.3#
Event	8	Prime Pumps	9/21/2017	11:50:01	COM5					
Event	9	Test Lines	9/21/2017	11:54:28	COM5	8.33	0.00	5403.00	0.0	5405 HAD A LEAK OFF ON PSI, REPRIMED AND CHECKED LINES AND 1 IN RELEASE VALVE, AND 1 IN TO PIT.
Event	10	Test Lines	9/21/2017	12:03:10	COM5	8.33	0.00	5383.00	0.0	5405
Event	11	Pump Spacer 1	9/21/2017	12:06:10	COM5	8.33	2.10	213.00	10	FRESH WATER
Event	12	Pump Spacer 2	9/21/2017	12:10:50	COM5	8.35	4	190.00	20	MUD FLUSH
Event	13	Pump Cement	9/21/2017	12:18:29	COM5	12.50	8	626.00	302	865 SKS, 12.5 PPG, 1.96 FT3/SK, 9.38 GAL/SK
Event	14	Check weight	9/21/2017	12:24:26	COM5	12.55	8	693.00	48.1	GOOD
Event	15	Shutdown	9/21/2017	12:59:05	COM5					TO WASH PUMPS AND LINES, BLEW AIR FROM FLOOR TO PIT
Event	16	Clean Lines	9/21/2017	13:00:08	COM5					TO PIT

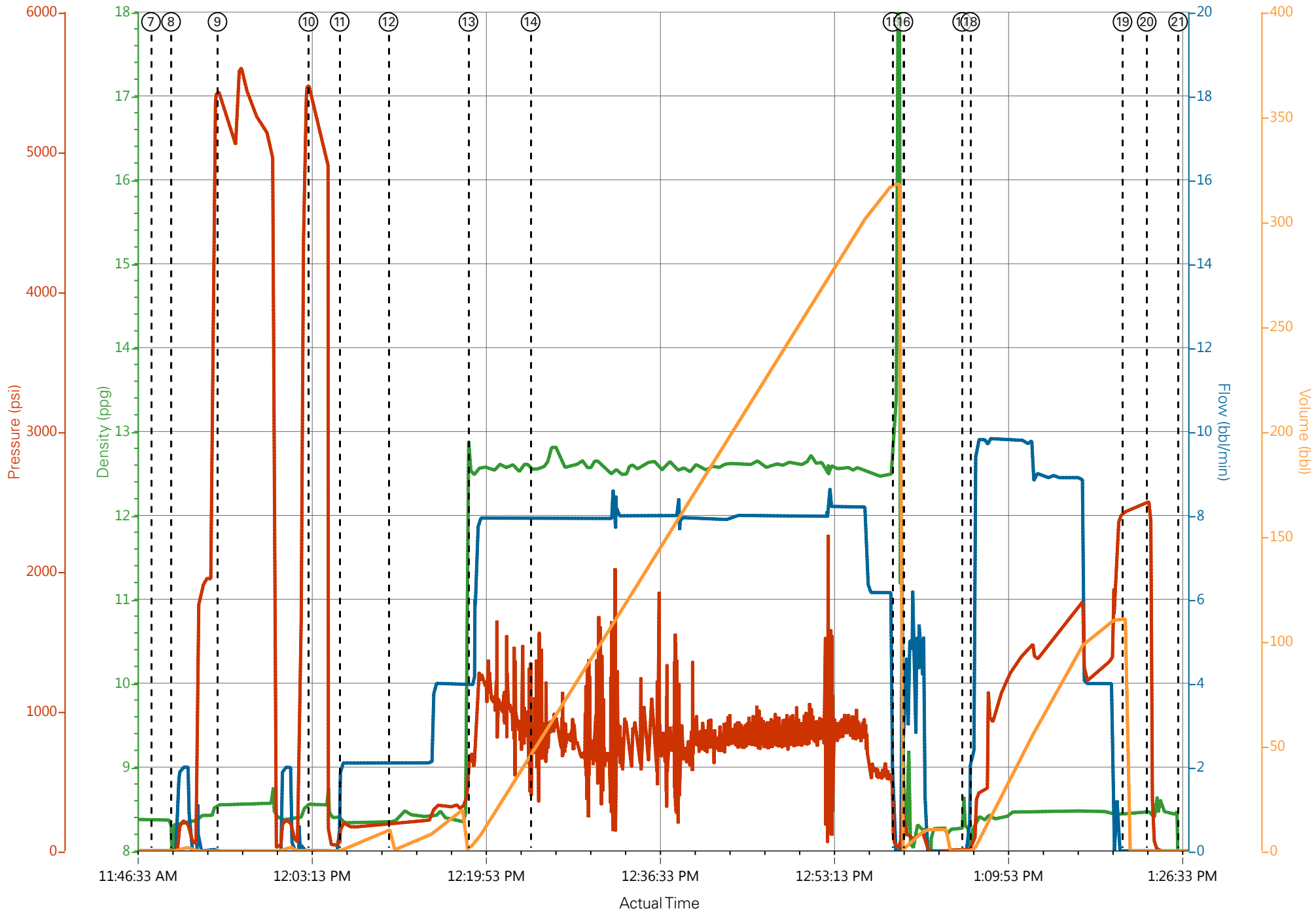
Event	17	Drop Top Plug	9/21/2017	13:05:45	COM5					USED TEP SUPPLIED LATCH DOWN TYPE PLUG, PLUG AWAY
Event	18	Pump Displacement	9/21/2017	13:06:31	COM5	8.33	9	1433	110.5	FRESH WATER WITH KCL, 1 GAL MMCR, BE-6
Event	19	Bump Plug	9/21/2017	13:21:06	COM5			1360	110.5	PLUG BUMPED
Event	20	CHECK FLOATS	9/21/2017	13:23:25	COM5			2501.00		FLOATS HELD, 1 BBL BACK
Event	21	End Job	9/21/2017	13:26:26	USER					PIPE WAS RECIPROCATED THROUGH OUT JOB
Event	22	Pre-Rig Down Safety Meeting	9/21/2017	13:45:00	USER					WITH ALL HES PERSONNEL
Event	23	Rig-Down Equipment	9/21/2017	14:00:00	USER					
Event	24	Pre-Convoy Safety Meeting	9/21/2017	15:00:00	USER					WITH ALL HES PERSONNEL
Event	25	Crew Leave Location	9/21/2017	15:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

TEP GM 333-5 4.5 PRODUCTION CASING



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|-----------------------------|-----------------|---------------------|--------------------------------|------------------------|
| ① Call Out | ⑦ Start Job | ⑬ Pump Cement | ⑲ Bump Plug | 25 Crew Leave Location |
| ② Pre-Convoy Safety Meeting | ⑧ Prime Pumps | ⑭ Check weight | 20 CHECK FLOATS | |
| ③ Crew Leave Yard | ⑨ Test Lines | ⑮ Shutdown | 21 End Job | |
| ④ PRE RIG UP SAFETY MEETING | ⑩ Test Lines | ⑯ Clean Lines | 22 Pre-Rig Down Safety Meeting | |
| ⑤ Rig-Up Equipment | ⑪ Pump Spacer 1 | ⑰ Drop Top Plug | 23 Rig-Down Equipment | |
| ⑥ Pre-Job Safety Meeting | ⑫ Pump Spacer 2 | ⑱ Pump Displacement | 24 Pre-Convoy Safety Meeting | |

TEP GM 333-5 4.5 PRODUCTION CASING



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

Job Information

Request/Slurry	2417623/1	Rig Name	H&P 271	Date	18/SEP/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	GM 333-5

Well Information

Casing/Liner Size	4.5 in	Depth MD	7192 ft	BHST	89°C / 193°F
Hole Size	8.75 in	Depth TVD	6666 ft	BHCT	54°C / 129°F
Pressure	3970 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	9.2 lbm/gal
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Cement Information - Primary Design

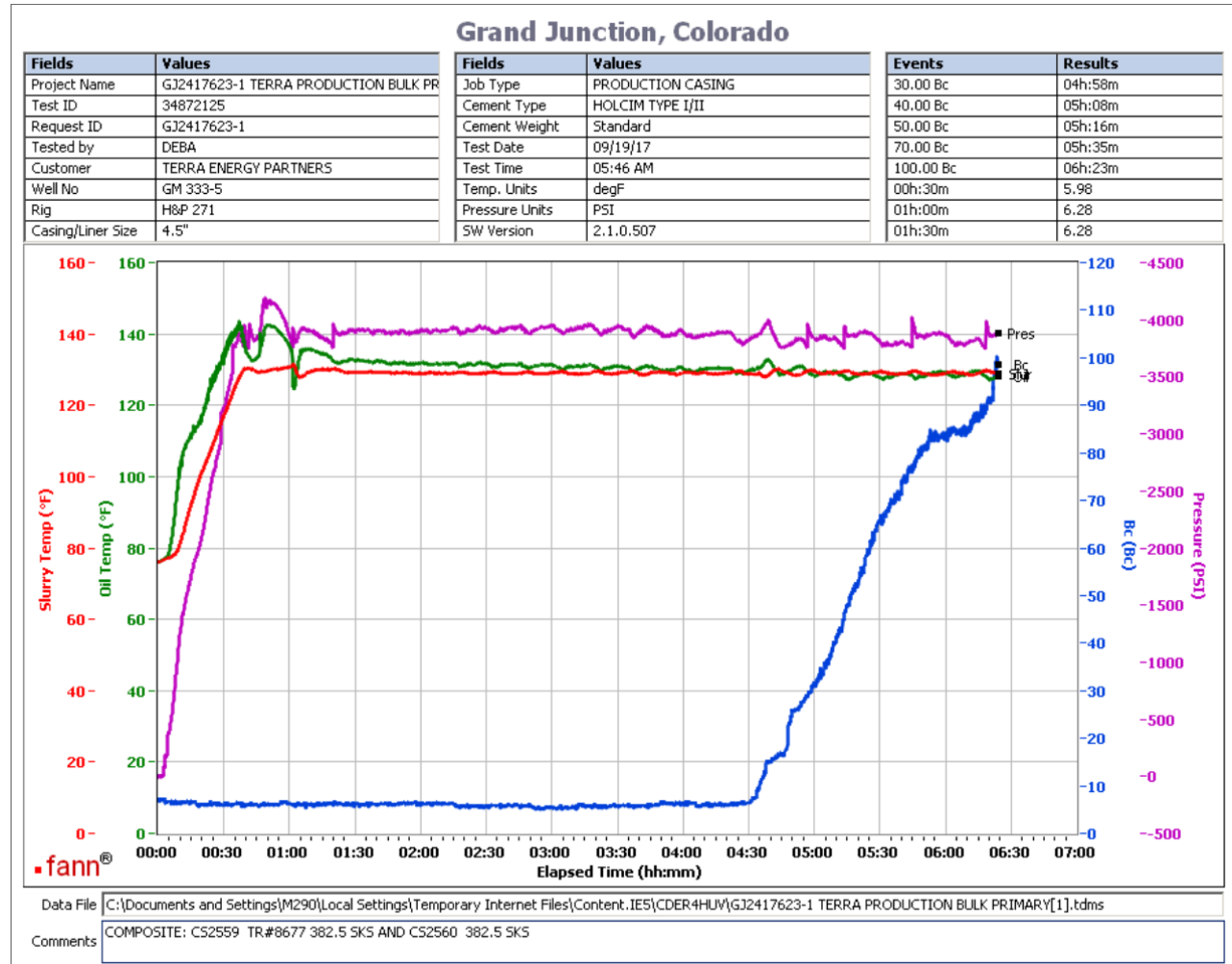
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem Primary				Slurry Density	12.5	lbm/gal
						Slurry Yield	1.962	ft ³ /sack
						Water Requirement	9.434	gal/sack
						Total Mix Fluid	9.434	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

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Thickening Time - ON-OFF-ON

19/SEP/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)
129	3970	36	4:58	5:16	5:35	6:23	7	46	15	6



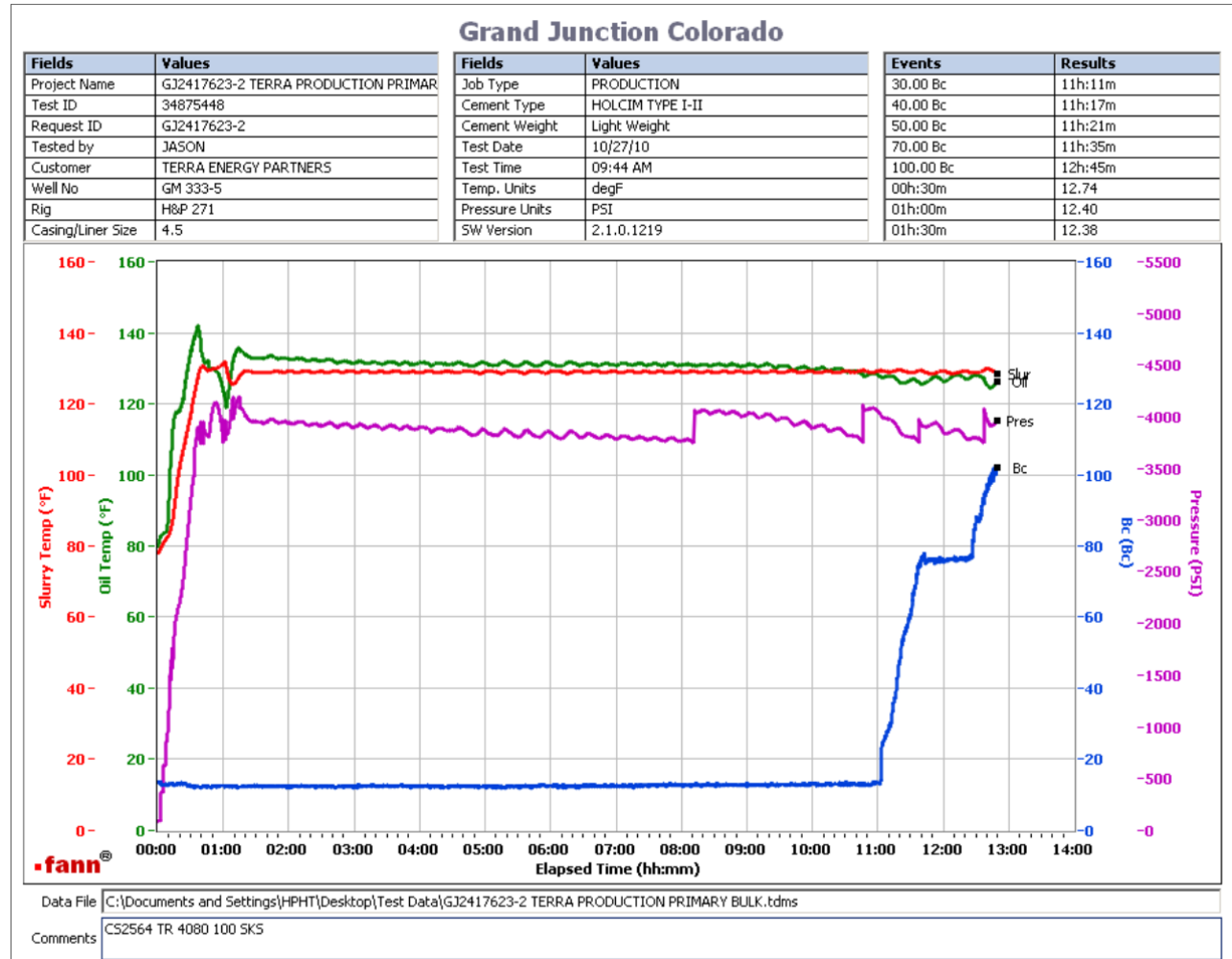
Total sks = 865
 Composite:
 CS2559 TR#8677 382.5 SKS
 CS2560 TR#MT 201 382.5 SKS
 no deflection was observed. 6Bc--- > 6Bc

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Operation Test Results Request ID 2417623/2

Thickening Time - ON-OFF-ON 20/SEP/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)
129	3970	36	11:11	11:21	11:35	12:45	13	46	15	12



Total sks = 865
 CS2564 TR 4080 100 SKS
 No deflection

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