

HALLIBURTON

iCem[®] Service

TEP ROCKY MOUNTAIN LLC

For: Abe Alexander & Lynn Cass

SR 44-12 Production

API# 05-045-23250-00

Sincerely,

Grand Junction Cement Engineering

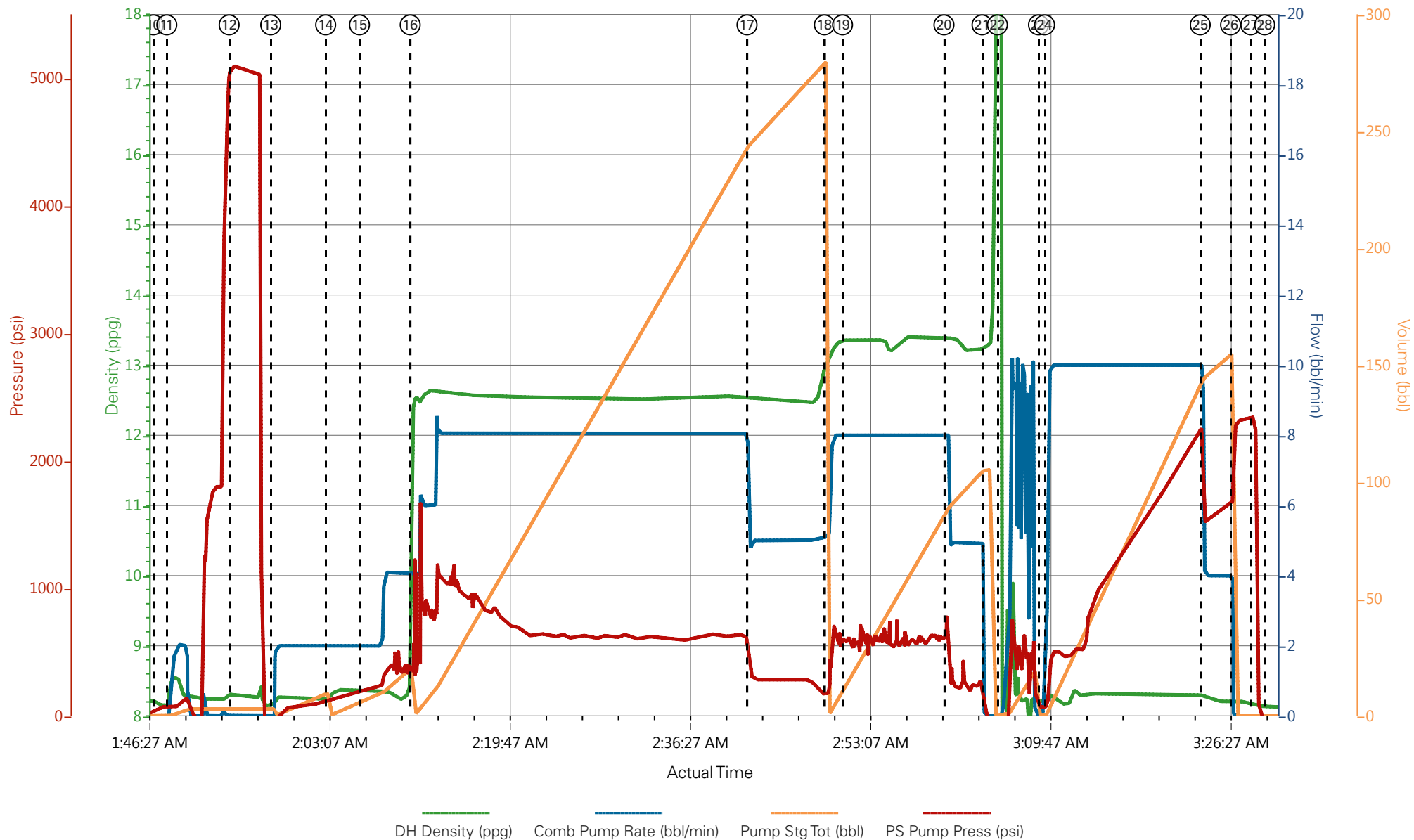
1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Pass-Side Pump Pressure (psi)	Comments
Event	1	Call Out	12/17/2016	11:00:00	USER					REQUESTED ON LOCATION @ 20:00
Event	2	Pre-Convoy Safety Meeting	12/17/2016	12:45:00	USER					ALL HES EMPLOYEES PRESENT
Event	3	Crew Leave Yard	12/17/2016	13:00:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	12/17/2016	16:00:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	12/17/2016	16:15:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 6.0, CHLORIDES- 0, TEMP- 85/65 F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Spot Equipment	12/17/2016	16:30:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	7	Pre-Rig Up Safety Meeting	12/17/2016	17:00:00	USER					ALL HES EMPLOYEES PRESENT
Event	8	Rig-Up Equipment	12/17/2016	17:15:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE UNTIL 18:30 WILL RESUME RIG UP WHEN CASING IS COMPLETE AND RED ZONE IS CLEAR.
Event	9	Finshed Rig-Up	12/18/2016	00:00:00	USER					FINISHED RIGGING UP WHILE RIG CIRCULATED
Event	10	Pre-Job Safety Meeting	12/18/2016	01:15:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 13 BPM PRIOR TO JOB PRESSURE @800 PSI, GAS @ 220
Event	11	Start Job	12/18/2016	01:47:06	USER					TD 9561', TP 9551', SJ 25', CSG 9 5/8" 32.3# H-40 SET @ 1135' PRODUCTION CSG 4 1/2" 11.6# P-110, OH 8 3/4", MUD 9.9 PPG 50 VIS
Event	12	Prime Lines	12/18/2016	01:48:20	USER	8.33	2.0	3	100	FRESH WATER
Event	13	Test Lines	12/18/2016	01:54:06	COM5				5100	PRESSURE HELD
Event	14	Pump H2O Spacer	12/18/2016	01:57:57	COM5	8.33	2.0	10	120	FRESH WATER

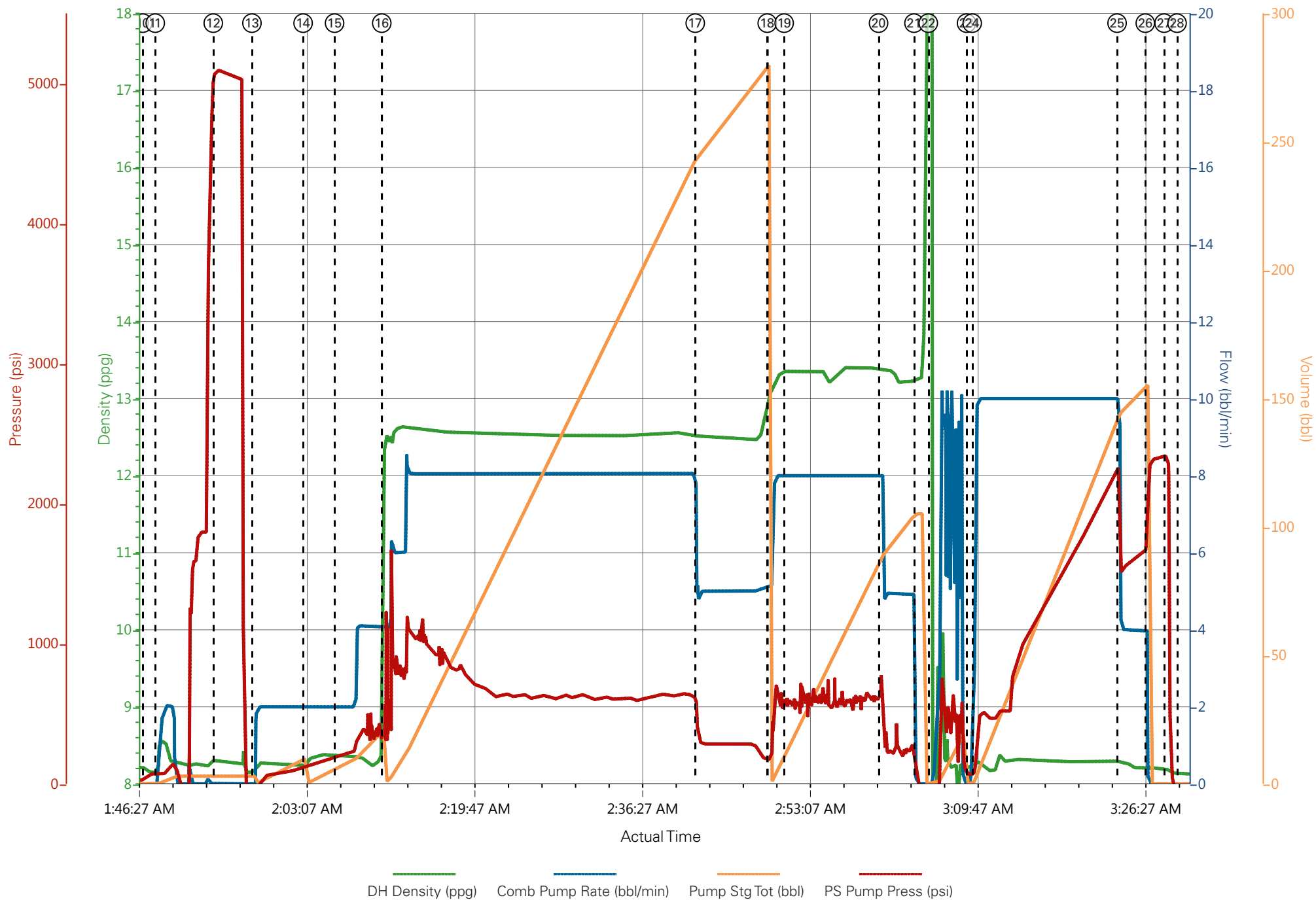
Event	15	Pump Mud Flush III	12/18/2016	02:03:02	COM5	8.4	4.0	20	270	80 LBS MUD FLUSH III
Event	16	Check weight	12/18/2016	02:06:10	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Pump Lead Cement	12/18/2016	02:10:51	COM5	12.5	8.0	260	630	750 SKS NEOCEM CMT 12.5 PPG, 1.94 FT3/SK, 9.58 GAL/SK. USED 45 LBS. OF TUF-FIBER THROUGHOUT LEAD CMT
Event	18	Slow Rate	12/18/2016	02:42:00	USER					SLOWED TO END SILO
Event	19	Pump Tail Cement	12/18/2016	02:49:09	COM5	13.3	8.0	81.6	610	265 SKS THERMACEM CMT 13.3 PPG, 1.73 FT3/SK, 7.81 GAL/SK
										WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	20	Check weight	12/18/2016	02:50:50	COM5					
Event	21	Slow Rate	12/18/2016	03:00:13	USER					SLOWED TO END CMT
Event	22	Shutdown	12/18/2016	03:03:44	USER					END OF CMT
Event	23	Clean Pumps And Lines	12/18/2016	03:05:09	USER					CLEANED PUMP AND LINES TO PIT
Event	24	Drop Plug	12/18/2016	03:08:57	COM5					VERIFIED BY FLAG INDICATOR
Event	25	Pump Displacement	12/18/2016	03:09:31	COM5	8.4	10	137	2240	1 GAL MMCR IN FIRST 10 BBLS, 3 LBS BE-6 IN FIRST 30 BBLS, 1 50 LB. BAG KCL THROUGHOUT DISPLACEMENT
Event	26	Slow Rate	12/18/2016	03:23:55	USER	8.4	4.0	10	1560	SLOWED TO BUMP PLUG
Event	27	Bump Plug	12/18/2016	03:26:43	COM5	8.4	4.0	147	1660	PLUG BUMPED
Event	28	Check Floats	12/18/2016	03:28:35	USER				2300	FLOATS HELD 1 BBL FLOW BACK
Event	29	End Job	12/18/2016	03:29:52	USER					RETURNS THROUGHOUT JOB, PIPE WAS RECIPICATED
Event	30	Post-Job Safety Meeting (Pre Rig-Down)	12/18/2016	03:45:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	31	Rig-Down Completed	12/18/2016	05:30:00	USER					NO INJURIES TO REPORT
Event	32	Pre-Convoy Safety Meeting	12/18/2016	05:45:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	33	Crew Leave Location	12/18/2016	06:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, DUSTIN HYDE AND CREW

Terra Energy Partners, SR 44-12, 4 1/2" Production



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|-----------------------------|-----------------------------------------|------------------|----------------------|--------------------|--------------------------|-----------------|-------------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Finshed Rig-Up | ⑬ Pump H2O Spacer | ⑰ Slow Rate | 21 Shutdown | 25 Slow Rate | 29 Pre-Job |
| ② Pre-Convoy Safety Meeting | ⑥ Spot Equipment | ⑩ Start Job | ⑭ Pump Mud Flush III | ⑱ Pump Tail Cement | 22 Clean Pumps And Lines | 26 Bump Plug | 30 Post-Job |
| ③ Crew Leave Yard | ⑦ Pre-Rig Up Safety Meeting | ⑪ Prime Lines | ⑮ Check weight | ⑲ Check weight | 23 Drop Plug | 27 Check Floats | 31 Rig-Dow |
| ④ Arrive At Loc | ⑧ Rig-Up Equipment | ⑫ Test Lines | ⑯ Pump Lead Cement | 20 Slow Rate | 24 Pump Displacement | 28 End Job | 32 Pre-Con |

Terra Energy Partners, SR 44-12, 4 1/2" Production



HALLIBURTON

Rockies, Grand Junction

Lab Results- Lead

Job Information

Request/Slurry	2354806/1	Rig Name	H&P 318	Date	12/DEC/2016
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	SR 44-12

Well Information

Casing/Liner Size	4.5 in	Depth MD	9535 ft	BHST	115°C / 239°F
Hole Size	8.75 in	Depth TVD	9382 ft	BHCT	76°C / 169°F
Pressure	5870 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



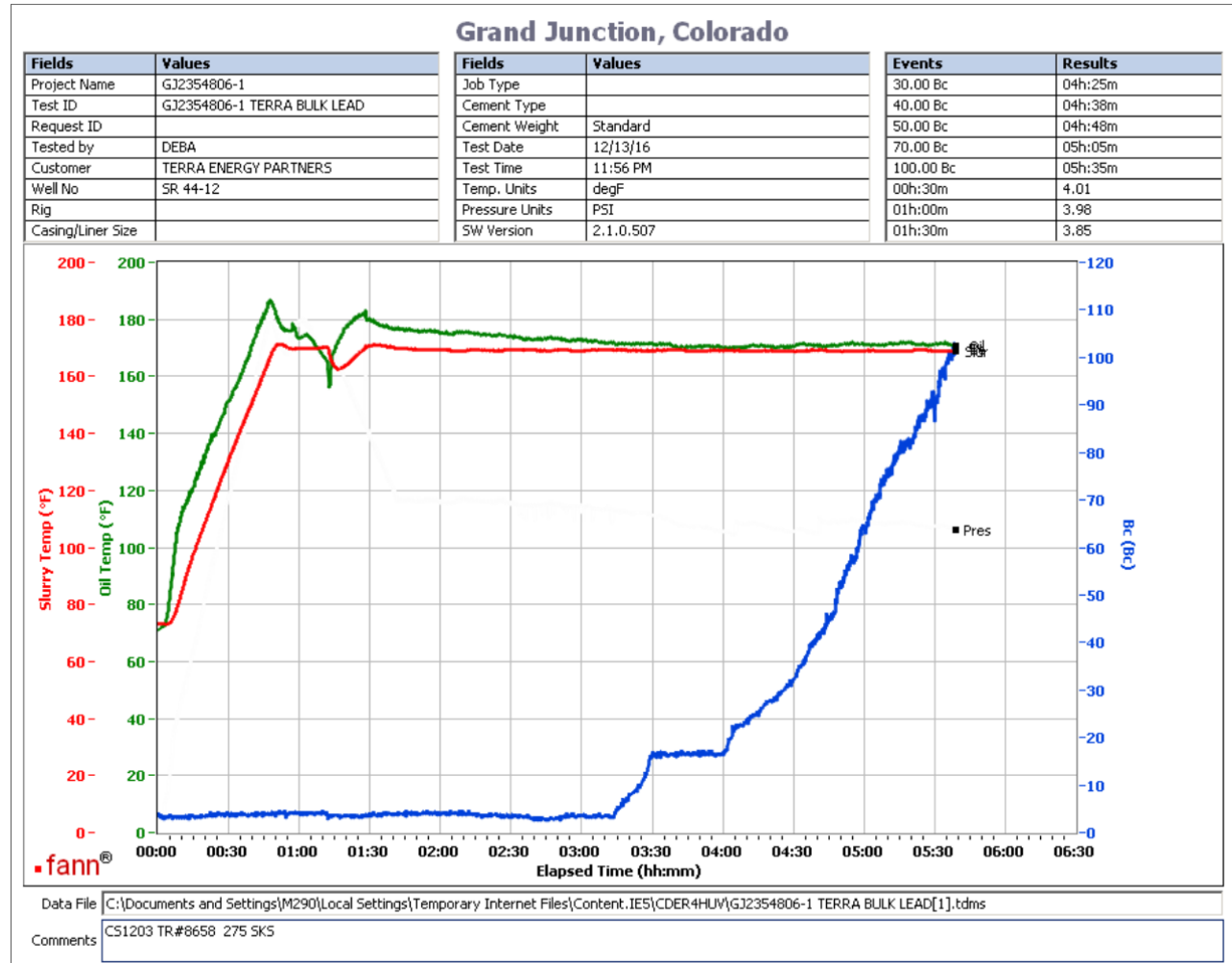
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem GJ1				Slurry Density	12.5	lbm/gal
						Slurry Yield	1.941	ft3/sack
						Water Requirement	9.623	gal/sack
						Total Mix Fluid	9.623	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

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Thickening Time - ON-OFF-ON

14/DEC/2016

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)
169	5870	47	4:25	4:48	5:05	5:35	4	57	15	4



Total Sacks= 750

CS1203 TR#8658 375 sks

no deflection was observed when the stirring was resumed.

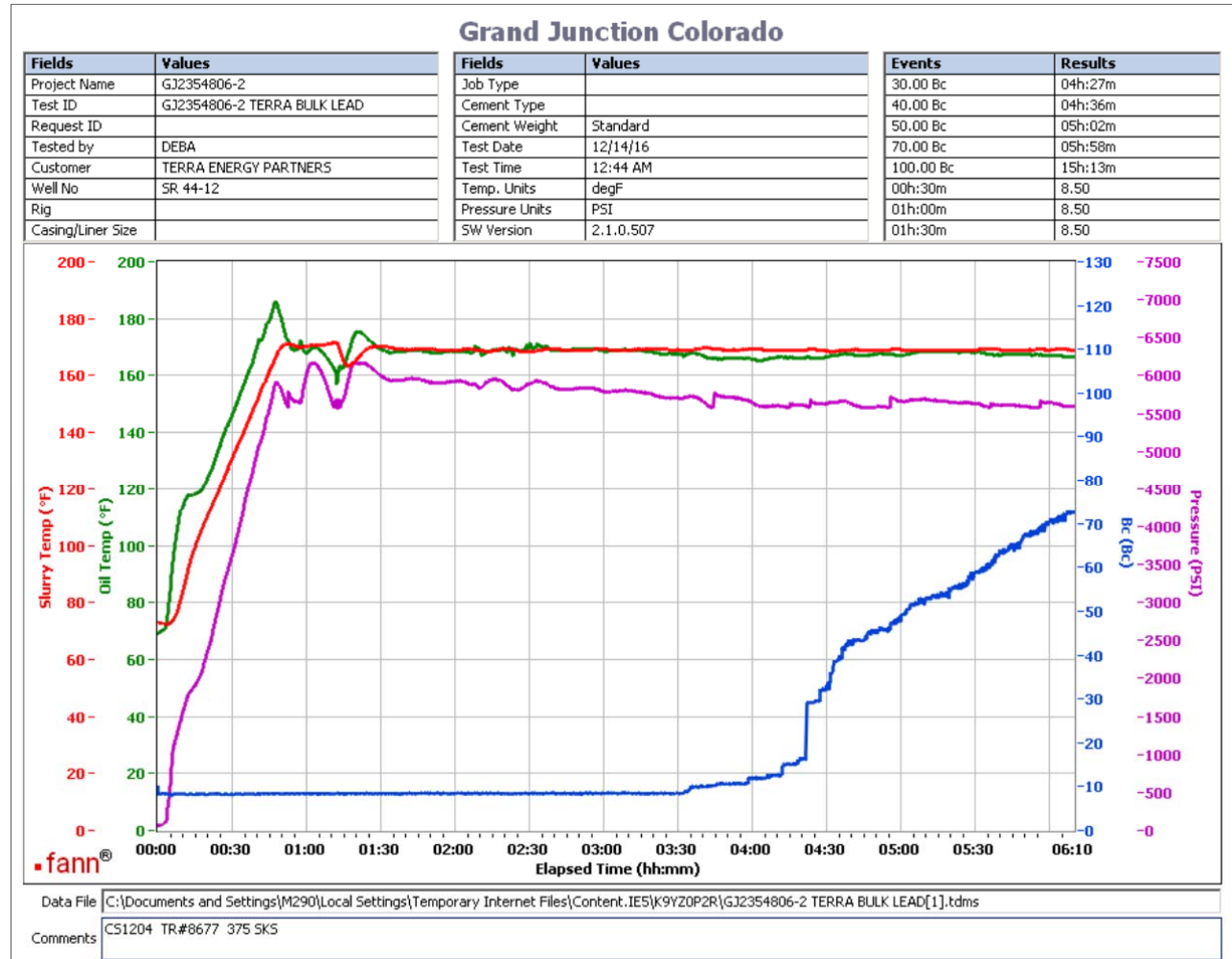
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Operation Test Results Request ID 2354806/2

Thickening Time - ON-OFF-ON

14/DEC/2016

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
169	5870	47	4:27	5:02	5:58	8	57	15	8



Total Sacks= 750

CS1204 TR#8677 375 sks

no deflection was observed when the stirring was resumed.

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Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2354807/1	Rig Name	H&P 318	Date	12/DEC/2016
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	SR 44-12

Well Information

Casing/Liner Size	4.5 in	Depth MD	9535 ft	BHST	115°C / 239°F
Hole Size	8.75 in	Depth TVD	9382 ft	BHCT	76°C / 169°F
Pressure	5870 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



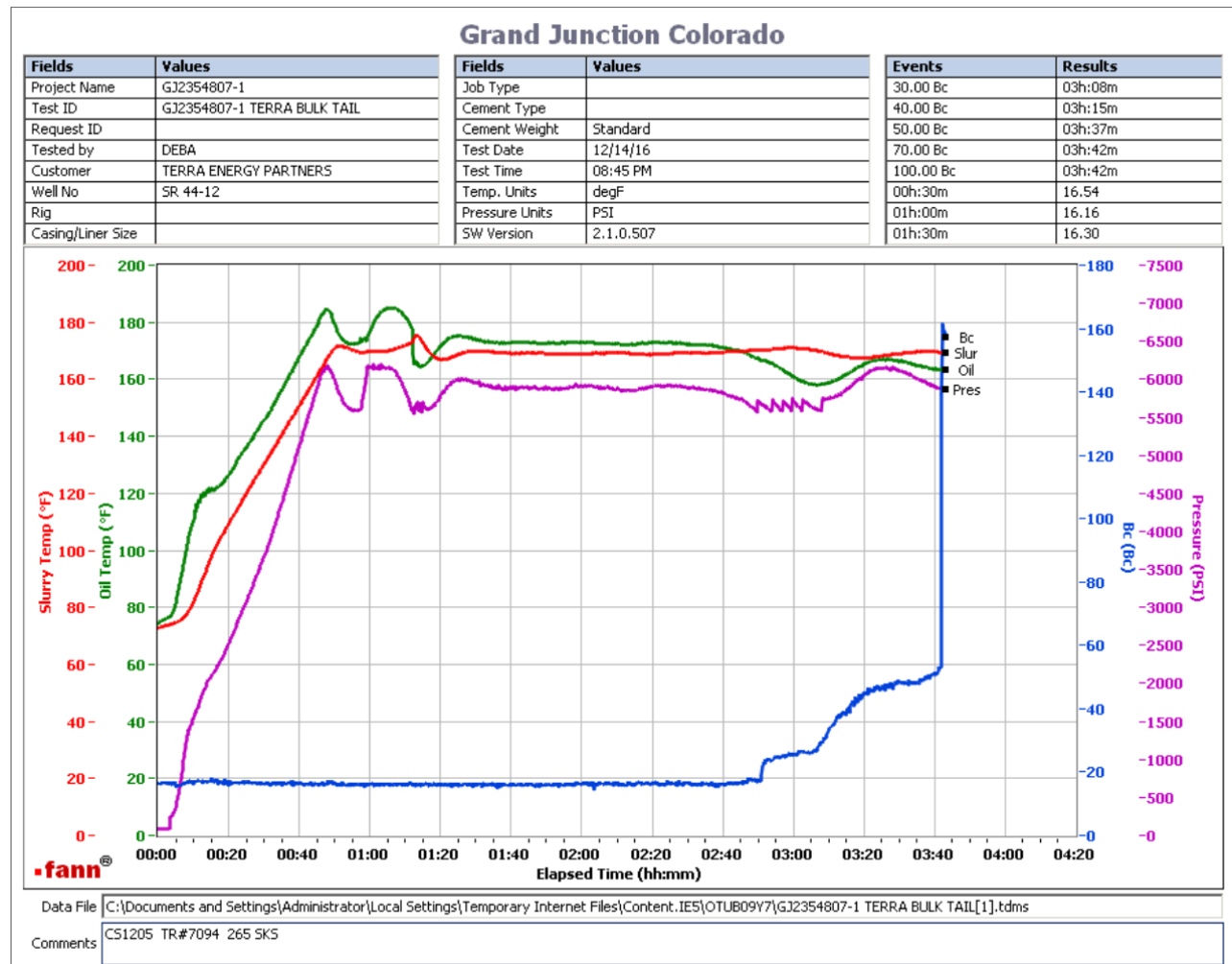
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		ThermaCem GJ2				Slurry Density	13.3	lbm/gal
						Slurry Yield	1.733	ft3/sack
						Water Requirement	7.799	gal/sack
						Total Mix Fluid	7.799	gal/sack
						Water Source	Fresh Water	
						Water Chloride	N/A	

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Thickening Time - ON-OFF-ON

14/DEC/2016

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)
169	5870	47	3:08	3:37	3:42	3:42	16	57	15	15



Total Sacks= 265

CS1205 TR#7094 265 SKS

no deflection was observed when the stirring was resumed.

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