

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Saturday, September 09, 2017

SR 542-12 Surface PJR

API #: 05-045-23293

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

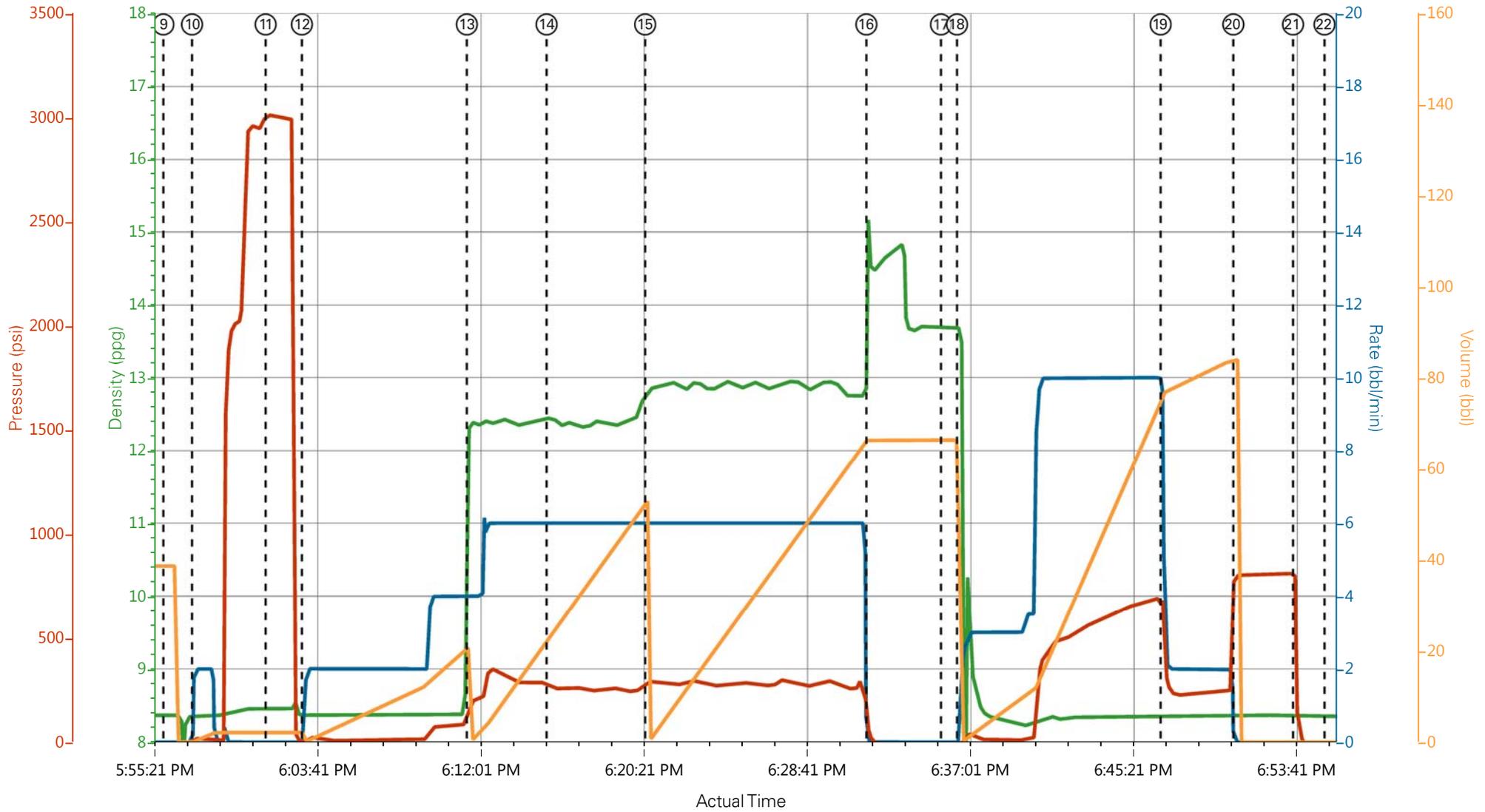
1.1 Job Event Log

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	9/9/2017	09:00:00	USER					O/L time 1500 - crew already in field
Event	2	Pre-Convoy Safety Meeting	9/9/2017	11:45:00	USER					
Event	3	Crew Leave Yard	9/9/2017	12:00:00	USER					1 Elite, 1 660, 1 pickup
Event	4	Arrive At Location	9/9/2017	14:00:00	USER					Rig finishing pulling drill pipe
Event	5	Assessment Of Location Safety Meeting	9/9/2017	14:15:00	USER					JSA completed - customer offered/received SDS - water test pH 7.5, Cl 0, temp 70 degrees
Event	6	Pre-Rig Up Safety Meeting	9/9/2017	14:45:00	USER					
Event	7	Rig-Up Equipment	9/9/2017	15:00:00	USER					Hard line to standpipe, water hose to upright, bulk hose to 660
Event	8	Pre-Job Safety Meeting	9/9/2017	16:30:00	USER					All HES personnel, rig crew, and company rep - Rig circulating @ 9 bpm w/ 296 psi for 1/2 hr
Event	9	Start Job	9/9/2017	17:56:00	USER					TD 1136', TP 1129', SJ 43.87', Mud 9.6 ppg, 1'3 1/2" OH, 9 5/8" 32# casing
Event	10	Prime Lines	9/9/2017	17:57:27	USER	8.33	2.0	30	2.0	Fresh water
Event	11	Test Lines	9/9/2017	18:01:13	COM5			3030		Pressure held well
Event	12	Pump H2O Spacer	9/9/2017	18:03:04	COM5	8.33	4.0	85	20.0	Fresh water - returns established
Event	13	Pump Lead Cement	9/9/2017	18:11:29	COM5	12.3	6.0	360	53.0	125 sks, 12.3 ppg, 2.38 yield, 13.77 gal/sk
Event	14	Check weight	9/9/2017	18:15:33	COM5	12.3				Recirc matched mud scales
Event	15	Pump Tail Cement	9/9/2017	18:20:35	COM5	12.8	6.0	320	65.8	175 sks, 12.8 ppg, 2.11 yield, 11.78

gal/sk

Event	16	Shutdown	9/9/2017	18:31:52	USER						Wash up on top of plug
Event	17	Drop Top Plug	9/9/2017	18:35:41	USER						Plug launched - verified by company rep
Event	18	Pump Displacement	9/9/2017	18:36:30	COM5	8.33	10.0	690	85.4		Fresh water
Event	19	Slow Rate	9/9/2017	18:46:54	USER	8.33	2.0	255	@ 75		Good returns throughout job
Event	20	Bump Plug	9/9/2017	18:50:36	COM5			270			Approx 28 bbls cement to surface
Event	21	Check Floats	9/9/2017	18:53:39	USER			820			Floats held – ½ bbl flowback
Event	22	End Job	9/9/2017	18:55:15	COM5						30 lbs sugar used
Event	23	Pre-Rig Down Safety Meeting	9/9/2017	19:15:00	USER						
Event	24	Rig-Down Equipment	9/9/2017	19:30:00	USER						
Event	25	Pre-Convoy Safety Meeting	9/9/2017	19:45:00	USER						
Event	26	Crew Leave Location	9/9/2017	20:00:00	USER						Thank you for using Halliburton - Ed Deussen and crew

TERRA ENERGY - SR 542-12 - 9 5/8" Surface



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

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|---|-----------------------------|--------------------|---------------------|--------------------------------|------------------------|
| ① Call Out | ⑥ Pre-Rig Up Safety Meeting | ⑪ Test Lines | ⑯ Shutdown | 21 Check Floats | 26 Crew Leave Location |
| ② Pre-Convoy Safety Meeting | ⑦ Rig-Up Equipment | ⑫ Pump H2O Spacer | ⑰ Drop Top Plug | 22 End Job | |
| ③ Crew Leave Yard | ⑧ Pre-Job Safety Meeting | ⑬ Pump Lead Cement | ⑱ Pump Displacement | 23 Pre-Rig Down Safety Meeting | |
| ④ Arrive At Location | ⑨ Start Job | ⑭ Check weight | ⑲ Slow Rate | 24 Rig-Down Equipment | |
| ⑤ Assessment Of Location Safety Meeting | ⑩ Prime Lines | ⑮ Pump Tail Cement | 20 Bump Plug | 25 Pre-Convoy Safety Meeting | |

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Created: 2017-09-09 13:04:41, Version: 4.2.393

Edit

Customer : TERRA ENERGY PARTNERS
 Representative : Nathan Burr

Job Date : 9/9/2017 4:35:04 PM
 Sales Order # : 904284399

Well : SR 542-12
 Elite #1 : Ed Deussen / Adam Angelo

TERRA ENERGY - SR 542-12 - 9 5/8" Surface

