

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Monday, October 16, 2017

SR 522-12 Surface PJR

API# 05-045-23447-00

Sincerely,

Grand Junction Cement Engineering

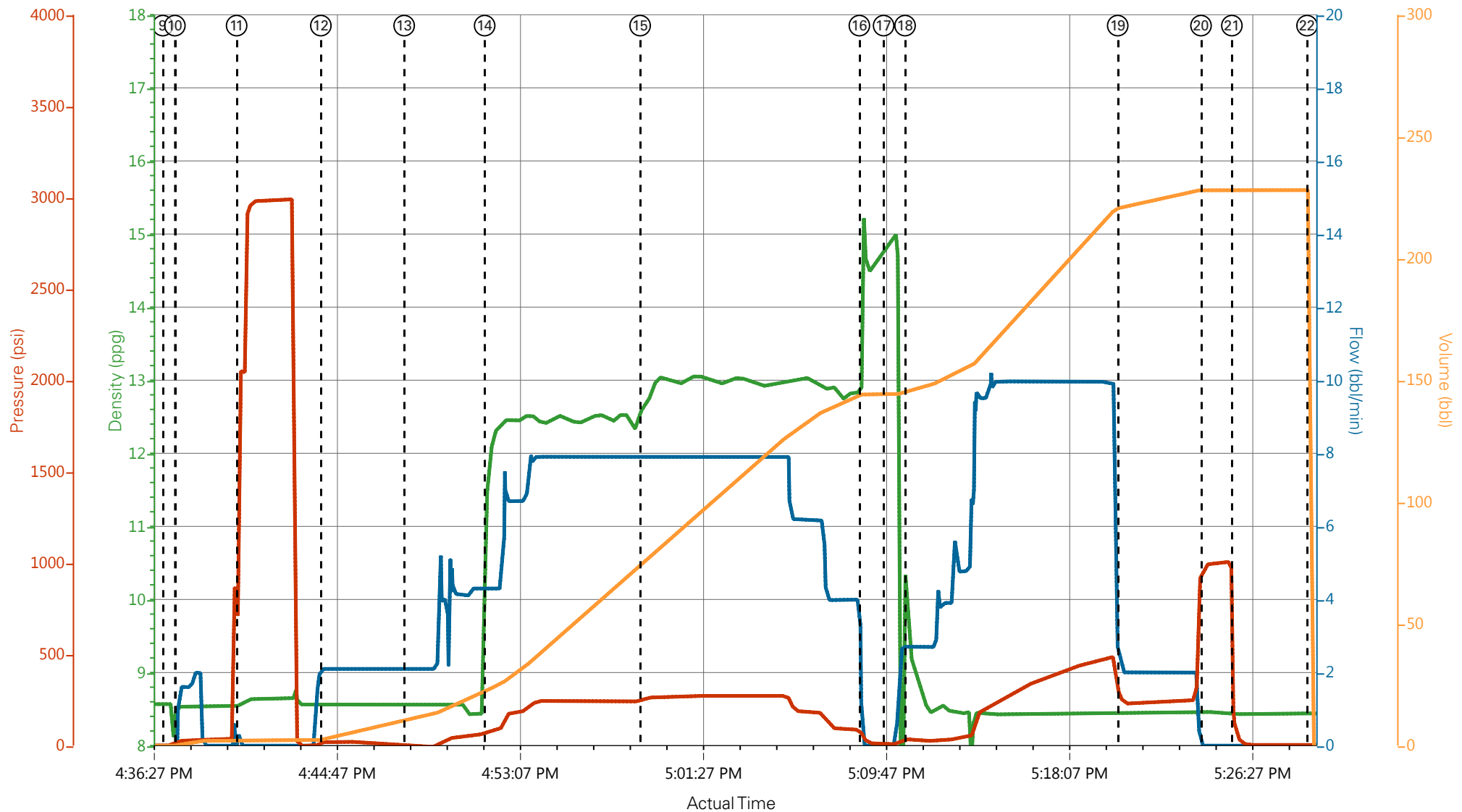
2.0 Real-Time Job Summary

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	10/16/2017	06:30:00						Requested on Location @ 12:00
Event	2	Pre-Convoy Safety Meeting	10/16/2017	08:00:00						
Event	3	Crew Leave Yard	10/16/2017	08:20:00						1 Elite, 1 660, 1 pickup
Event	4	Arrive At Loc	10/16/2017	11:57:52						Rig running casing
Event	5	Assessment Of Location Safety Meeting	10/16/2017	12:10:00						JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 54 degrees
Event	6	Pre-Rig Up Safety Meeting	10/16/2017	12:30:00						
Event	7	Rig-Up Equipment	10/16/2017	12:45:00						iron to standpipe. Water hoses to both uprights, bulk hoses to 660.
Event	8	Pre-Job Safety Meeting	10/16/2017	13:45:00						All HES personnel, Rig crew, and Company Rep
Event	9	Start Job	10/16/2017	16:37:00						T
Event	10	Fill Lines	10/16/2017	16:37:33						3 BBL Fresh Water
Event	11	Test Lines	10/16/2017	16:40:22		8.33		3038		Held pressure 2 minutes no leaks
Event	12	Pump Spacer	10/16/2017	16:44:12		8.33	4	25	20	20 bbls Fresh water
Event	13	Check Weight	10/16/2017	16:47:59						Density Verified via Mud Scales
Event	14	Pump Lead Cement	10/16/2017	16:51:39		12.3	8	255	52.9	125 sks 12.3 PPG, 2.38 Yeild, 11.78 Gal/sk
Event	15	Pump Tail Cement	10/16/2017	16:58:44		12.8	8	270	65.8	175 sks 12.8 PPG, 2.11 Yeild, 11.78 Gal/sk

Event	16	Shutdown	10/16/2017	17:08:42						
Event	17	Drop Top Plug	10/16/2017	17:09:49						Customer verified top plug launched
Event	18	Pump Displacement	10/16/2017	17:10:47	8.33	10	505	75		Wash up on top of plug
Event	19	Slow Rate	10/16/2017	17:20:28	8.33	2	235	75		Slow Rate 10 bbls to Calculated Displacement
Event	20	Bump Plug	10/16/2017	17:24:16	8.33	2	1013	85.2		Plug Bumped at 234 psi, Brought up to 1013 psi
Event	21	Check Floats	10/16/2017	17:25:40						Floats Held
Event	22	End Job	10/16/2017	17:29:05						Good returns throughout job, pipe was not reciprocated during cement, 25 bbls of cement to surface
Event	23	Pre-Rig Down Safety Meeting	10/16/2017	17:31:58						
Event	24	Rig-Down Equipment	10/16/2017	17:36:07						
Event	25	Pre-Convoy Safety Meeting	10/16/2017	18:13:08						
Event	26	Crew Leave Location	10/16/2017	18:18:18						Thanks For Using Halliburton Chris Martinez And Crew

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— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — DS Pump Press (psi)
 — Comb Pump Total (bbl)

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|---|--|---------------------------------------|---|
| ① Call Out n/a;n/a;n/a;n/a | ⑧ Pre-Job Safety Meeting n/a;n/a;n/a;n/a | ⑮ Pump Tail Cement 12.63;7.9;254;75.2 | ⑳ End Job 8.45;0;4;0 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑨ Start Job 8.57;0;1;0 | ⑯ Shutdown 14.55;0;48;144.2 | ㉑ Pre-Rig Down Safety Meeting 8.44;0;6;0 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑩ Fill Lines 8.53;1.6;23;0 | ⑰ Drop Top Plug 14.8;0;8;144.2 | ㉒ Rig-Down Equipment 8.44;0;5;0 |
| ④ Arrive At Loc n/a;n/a;n/a;n/a | ⑪ Test Lines 8.56;0;2057;2 | ⑱ Pump Displacement 9.62;2.7;35;145.5 | ㉓ Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a |
| ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑫ Pump Spacer 8.56;2.1;22;2.7 | ㉒ Slow Rate 8.44;2;255;221 | ㉔ Crew Leave Location n/a;n/a;n/a;n/a |
| ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑬ Check Weight 8.55;2.1;1;10.7 | ㉓ Bump Plug 8.46;0;975;228 | |
| ⑦ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑭ Pump Lead Cement 11.7;4.3;80;23 | ㉔ Check Floats 8.44;0;95;228 | |

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