

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Tuesday, February 20, 2018

PA 514-24 Surface

API#05-045-23646

Sincerely,

Grand Junction Cement Engineering

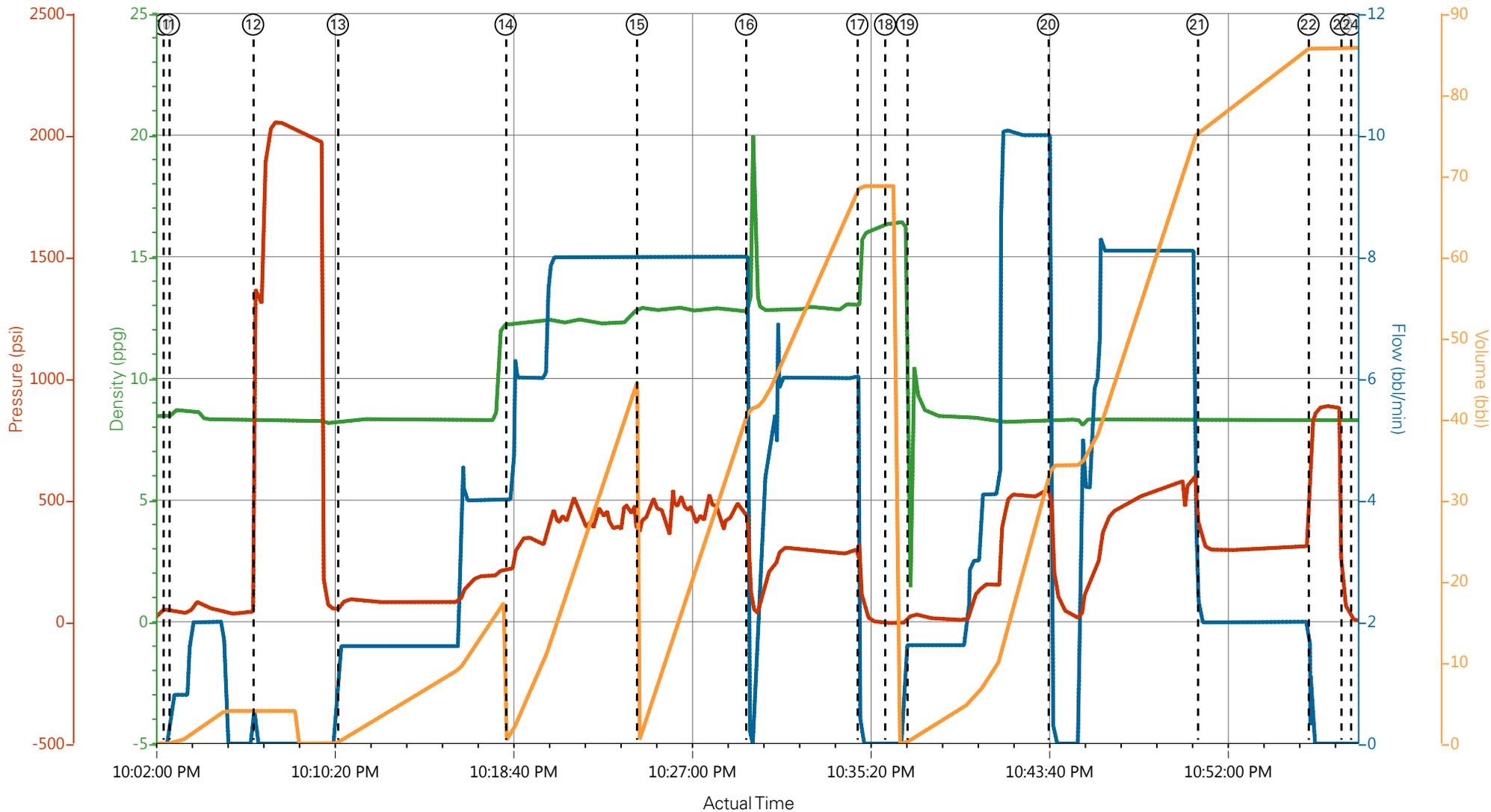
2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Downhole Density <i>(ppg)</i>	Combined Pump Rate <i>(bbl/min)</i>	Driv-Side Pump Pressure <i>(psi)</i>	Pump Stage Total <i>(bbl)</i>	Comments
Event	1	Call Out	2/20/2018	13:00:00						Requested on Location @ 18:30
Event	2	Pre-Convoy Safety Meeting	2/20/2018	16:00:00						
Event	3	Crew Leave Yard	2/20/2018	16:10:00						1 Elite, 1 660, 1 pickup
Event	4	Arrive At Loc	2/20/2018	18:30:00						Rig pulling drill pipe
Event	5	Assessment Of Location Safety Meeting	2/20/2018	18:35:00						JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 68 degrees
Event	6	Pre-Rig Up Safety Meeting	2/20/2018	18:45:00						
Event	7	Rig-Up Equipment	2/20/2018	19:00:00						1 hardline to standpipe, water hoses to upright, bulk hoses to 660.
Event	8	Other	2/20/2018	19:45:00						Rig Circulated 30 mins prior to cement job at 450 gpm 300 psi
Event	9	Pre-Job Safety Meeting	2/20/2018	21:32:09						All HES personnel, rig crew, and company rep
Event	10	Start Job	2/20/2018	22:02:28						OH 13 1/2, TD 1151, TP 1145.23, SJ 43.80, CSG 9 5/9" 32.3#, MUD 9.6 PPG,
Event	11	Fill Lines	2/20/2018	22:02:44		8.33	2	63	5	Fresh Water
Event	12	Test Lines	2/20/2018	22:06:40				2054		Held pressure 2 minutes no leaks
Event	13	Pump Sapcer	2/20/2018	22:10:37		8.33	4	200	15	Fresh Water
Event	14	Pump Lead Cement	2/20/2018	22:18:27		12.3	8	545	53	125 sks, 12.3 ppg, 2.38 Yield, 13.77 Gal/Sk
Event	15	Pump Tail Cement	2/20/2018	22:24:34		12.8	8	524	65.8	175 sks, 12.8 ppg, 2.11 Yield, 11.78 Gal/Sk
Event	16	Shut Down	2/20/2018	22:34:52						Wash up on top of plug

Event	17	Drop Top Plug	2/20/2018	22:36:09						Customer verified top plug launched
Event	18	Pump Displacement	2/20/2018	22:37:10	8.33	10	600	86.7		Fresh Water
Event	19	Shutdown	2/20/2018	22:43:45						Shut Down To Fix Leak
Event	20	Slow Rate	2/20/2018	22:50:44	8.33	2	300	76.7		Slow Rate 10 bbls to calculated displacement
Event	21	Bump Plug	2/20/2018	22:55:54	8.33				890	Plug Bumped at psi, Brought up to psi
Event	22	Check Floats	2/20/2018	22:57:25						Floats Held 1/2 bbl back to truck
Event	23	End Job	2/20/2018	22:57:53						good returns throughout job, 25 bbls of cement to surface.
Event	24	Pre-Rig Down Safety Meeting	2/20/2018	23:07:39						40 lbs sugar, No add hours
Event	25	Rig-Down Equipment	2/20/2018	23:10:16						
Event	26	Pre-Convoy Safety Meeting	2/20/2018	23:54:29						
Event	27	Crew Leave Location	2/20/2018	23:58:48						Thanks For Using Halliburton Cement. Chris Martinez And Crew

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

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|---|---|-------------------------------------|------------------------------------|----------------------|
| ① Call Out n/a;n/a;n/a;n/a | ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting 0.02;0;2;0 | ⑬ Pump Saper 8.25;1.6;77;0.3 | ⑰ Shut Down 13.82;0 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑩ Start Job 8.43;0;56;0 | ⑭ Pump Lead Cement 12.21;4;218;0.9 | ⑱ Drop Top Plug 16.3 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑦ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑪ Fill Lines 8.65;0.8;48;0.1 | ⑮ Pump Tail Cement 12.9;8;373;0.9 | ⑲ Pump Displaceme |
| ④ Arrive At Loc n/a;n/a;n/a;n/a | ⑧ Other n/a;n/a;n/a;n/a | ⑫ Test Lines 8.29;0;1353;4 | ⑯ Shutdown 12.78;0.2;210;41.3 | 20 Shutdown 8.33;7.3 |

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