

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra Energy

Ware SR 14-12

API# 05-045-23436-00

Ware SR 14-12 Surface

Job Date: Tuesday, January 03, 2018

Sincerely,

Grand Junction Cement Engineering

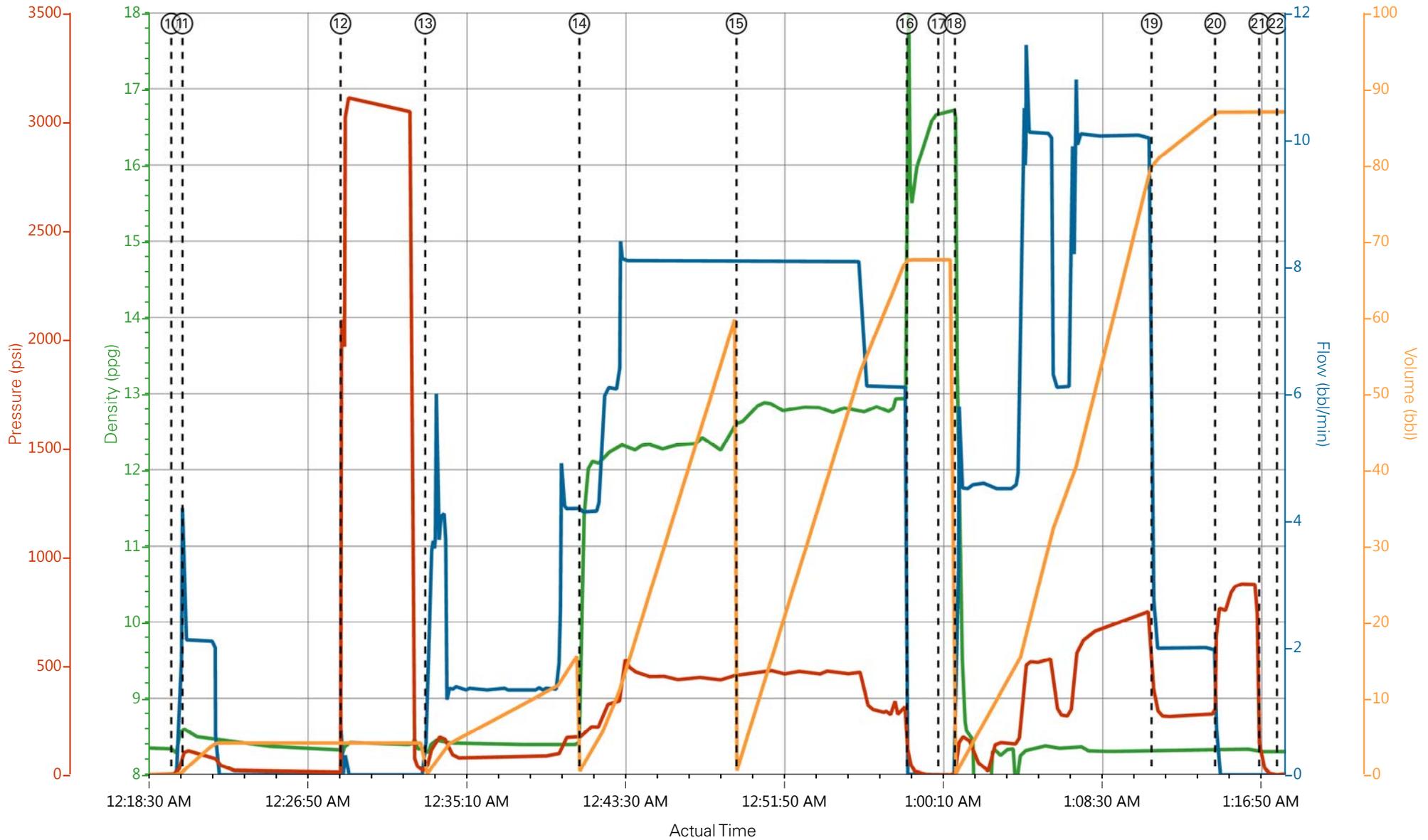
Real-Time Job Summary

1.1 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	1/2/2018	17:00:00						Requested on Location @ 23:00
Event	2	Pre-Convoy Safety Meeting	1/2/2018	18:00:00						
Event	3	Crew Leave Yard	1/2/2018	18:20:00						1 Elite, 1 660, 1 pickup
Event	4	Arrive At Loc	1/2/2018	23:00:00						Rig running casing
Event	5	Assessment Of Location Safety Meeting	1/2/2018	23:10:00						JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 58 degrees
Event	6	Pre-Rig Up Safety Meeting	1/2/2018	23:15:00						
Event	7	Rig-Up Equipment	1/2/2018	23:25:00						1 hardline to standpipe, water hoses to uprights, bulk hose to 660.
Event	8	Other	1/2/2018	23:33:00						Rig Circulated 30 mins prior to cement job at 400 gpm 300 psi
Event	9	Pre-Job Safety Meeting	1/3/2018	00:03:47						All HES personnel, rig crew, and company rep
Event	10	Start Job	1/3/2018	00:19:50						TD 1143, TP 1136, SJ 43.22, OH 13 1/2", CSG 9 5/8" 32.3#, MUD 9.2#
Event	11	Fill Lines	1/3/2018	00:20:26		8.33	2	112	5	Fresh Water
Event	12	Test Lines	1/3/2018	00:28:43				3125		Held pressure 2 minutes no leaks
Event	13	Pump Spacer	1/3/2018	00:33:09		8.33	2	120	15	Fresh Water
Event	14	Pump Lead Cement	1/3/2018	00:41:14		12.3	8	480	53	125 sks, 12.3 ppg, 2.38 Yield, 13.77 gal/sk
Event	15	Pump Tail Cement	1/3/2018	00:49:28		12.8	8	470	65.8	175 sks, 12.8 ppg, 2.11 Yield, 11.78 gal/sk
Event	16	Shutdown	1/3/2018	00:58:24						Wash up on top of plug

Event	17	Drop Top Plug	1/3/2018	01:00:03						Customer Verified Plug Drop
Event	18	Pump Displacement	1/3/2018	01:00:56	8.33	10	800			Fresh Water
Event	19	Slow Rate	1/3/2018	01:11:14	8.33	2	270	76		Slow Rate 10 bbls to calculated displacement
Event	20	Bump Plug	1/3/2018	01:14:34	8.33		820	86		Plug Bumped at psi, Brought up to psi
Event	21	Check Floats	1/3/2018	01:16:53						Floats Held 1/2 bbl Back To Truck
Event	22	End Job	1/3/2018	01:17:49						good returns throughout job, 26 bbls of cement to surface
Event	23	Pre-Rig Down Safety Meeting	1/3/2018	01:27:04						20 lbs sugar, No add hours
Event	24	Rig-Down Equipment	1/3/2018	01:30:49						
Event	25	Pre-Convoy Safety Meeting	1/3/2018	01:46:53						
Event	26	Crew Leave Location	1/3/2018	01:49:31						Thanks For Using Halliburton Cement. Chris Martinez And Crew

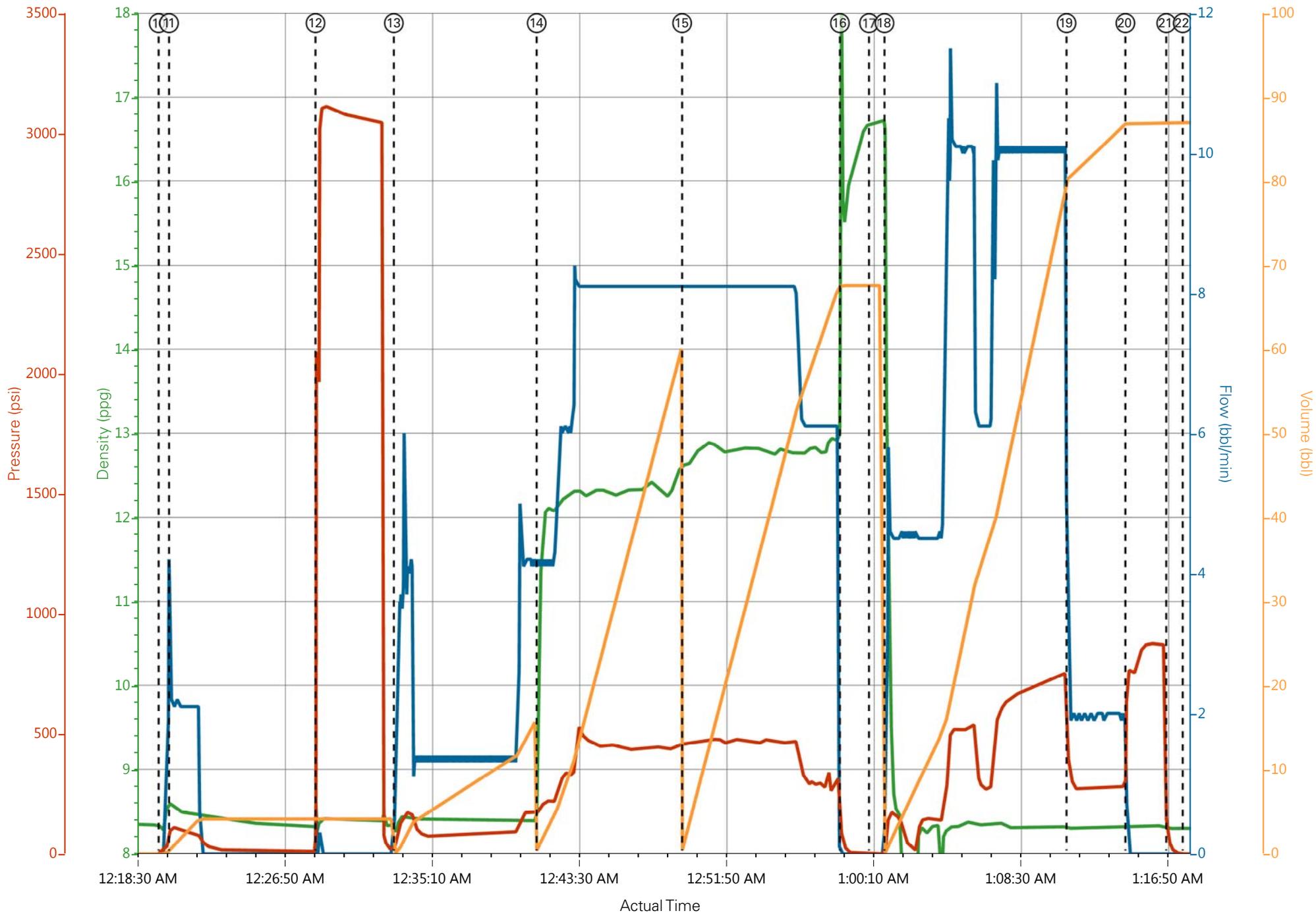
SR 14-12 Surface



— 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 0;0;-1;0.3 | ⑨ Pre-Job Safety Meeting 0;0;2;0.3 | ⑬ Pump Spacer 8.33;2.3;66;0.2 | ⑰ Drop Top Plug 16.69;0; |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑥ Pre-Rig Up Safety Meeting 0;0;0;0.3 | ⑩ Start Job 8.29;0;6;0 | ⑭ Pump Lead Cement 10.96;4.2;178;1.2 | ⑱ Pump Displacement 12.63;8.1;450;1.9 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑦ Rig-Up Equipment 0;0;3;0.3 | ⑪ Fill Lines 8.59;2.1;112;0.9 | ⑮ Pump Tail Cement 12.63;8.1;450;1.9 | ⑲ Slow Rate 8.3;2.3;352;0.2 |
| ④ Arrive At Loc 0;0;1;0.3 | ⑧ Other 0;0;1;0.3 | ⑫ Test Lines 8.37;0;1966;4.1 | ⑯ Shutdown 15.61;0;49;67.6 | ⑳ Bump Plug 8.32;0;767;0.2 |

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