

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS-EBUS**

**For: Terra**

Date: Friday, December 29, 2017

**PA 411-25 Surface**

API#05-045-23659

Sincerely,

**Grand Junction Cement Engineering**

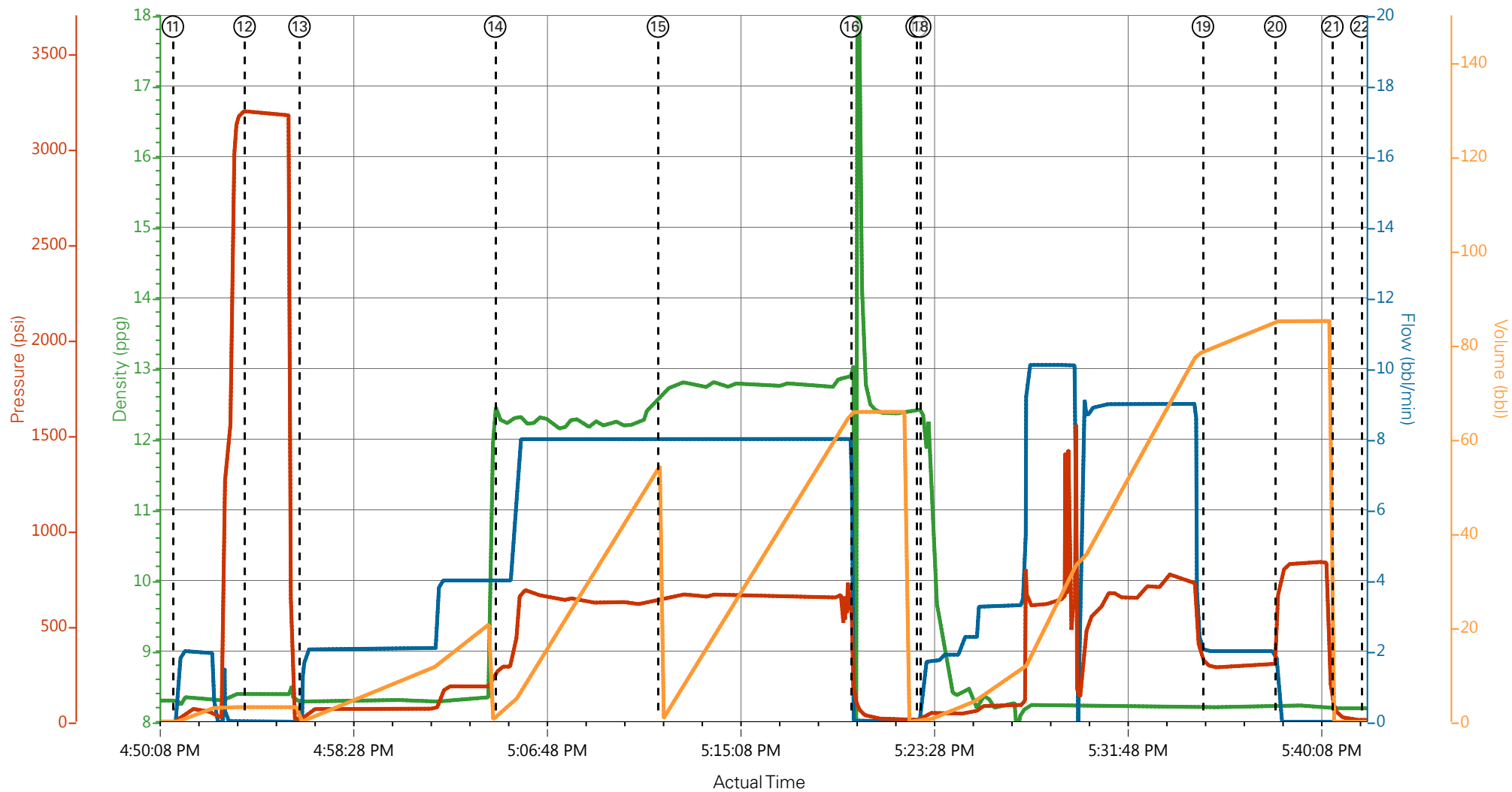
## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	12/29/2017	08:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	12/29/2017	10:30:00	USER					ALL HES PERSONNEL
Event	3	Crew Leave Yard	12/29/2017	10:45:00	USER					
Event	4	Arrive At Loc	12/29/2017	11:45:00	USER					RIG POOH WITH DP
Event	5	Assessment Of Location Safety Meeting	12/29/2017	12:30:00	USER					JSA COMPLETE
Event	6	Pre-Rig Up Safety Meeting	12/29/2017	12:45:00	USER					JSA COMPLETE
Event	7	Rig-Up Equipment	12/29/2017	13:00:00	USER					1 ELITE, 1 660, IRON ALREADY RAN TO RIG
Event	8	Pre-Job Safety Meeting	12/29/2017	16:00:00	USER					
Event	9	Other	12/29/2017	16:10:00	USER					9 5/8 32.3# TP-1137.98, TD-1133, SJ-31.44, MUD# 9.4 WATER TEST - CL-0, PH-7, TEMP- 48
Event	10	Start Job	12/29/2017	16:33:45	COM5					
Event	11	Prime Pumps	12/29/2017	16:50:50	COM5					FRESH WATER
Event	12	Test Lines	12/29/2017	16:53:55	COM5	8.30	0.00	3200.00	3.1	3201 PSI TEST GOOD
Event	13	Pump Spacer 1	12/29/2017	16:56:17	COM5	8.33	4.0	188	20	FRESH WATER
Event	14	Pump Lead Cement	12/29/2017	17:04:42	COM5	12.30	8	620	52.9	125 SKS , 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	15	Pump Tail Cement	12/29/2017	17:11:43	COM5	12.8	8.00	644.00	65.7	175 SKS, 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Shutdown	12/29/2017	17:20:02	COM5					TO DROP TOP PLUG

Event	17	Drop Top Plug	12/29/2017	17:22:51	COM5					AWAY
Event	18	Pump Displacement	12/29/2017	17:23:00	COM5	8.33	10	650	87.1	FRESH WATER
Event	19	SLOW RATE	12/29/2017	17:35:10	COM5	8.33	2.00	302.00	77	SLOW RATE TO BUMP PLUG
Event	20	Bump Plug	12/29/2017	17:38:17	COM5	8.33	2.00	290	87.1	PLUG BUMPED
Event	21	CHECK FLOATS	12/29/2017	17:40:45	COM5			833		FLOATS HELD 0.5 BBLS BACK TO TRUCK
Event	22	End Job	12/29/2017	17:42:00	USER					24 BBLS CMT TO SURFACE, GOOD RETURNS THROUGHOUT JOB NO PIPE MOVEMENT
Event	23	Post-Job Safety Meeting (Pre Rig- Down)	12/29/2017	18:00:00	USER					JSA COMPLETE
Event	24	Rig Down Lines	12/29/2017	18:30:00	USER					
Event	25	Pre-Convoy Safety Meeting	12/29/2017	19:00:00	USER					JSA COMPLETE
Event	26	Crew Leave Location	12/29/2017	19:10:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

# TEP - PA 411-25 - 9 5/8 SURFACE CASING



DH Density (ppg) 8.21    Comb Pump Rate (bbl/min) 0    PS Pump Press (psi) 37    Pump Stg Tot (bbl) 21.2

- |   |                          |                     |   |                              |
|---|--------------------------|---------------------|---|------------------------------|
| ① Call Out                              | ⑦ Rig-Up Equipment       | ⑬ Pump Spacer 1     | ⑲ SLOW RATE                               | 25 Pre-Convoy Safety Meeting |
| ② Pre-Convoy Safety Meeting             | ⑧ Pre-Job Safety Meeting | ⑭ Pump Lead Cement  | 20 Bump Plug                              | 26 Crew Leave Location       |
| ③ Crew Leave Yard                       | ⑨ Other                  | ⑮ Pump Tail Cement  | 21 CHECK FLOATS                           |                              |
| ④ Arrive At Loc                         | ⑩ Start Job              | ⑯ Shutdown          | 22 End Job                                |                              |
| ⑤ Assessment Of Location Safety Meeting | ⑪ Prime Pumps            | ⑰ Drop Top Plug     | 23 Post-Job Safety Meeting (Pre Rig-Down) |                              |
| ⑥ Pre-Rig Up Safety Meeting             | ⑫ Test Lines             | ⑱ Pump Displacement | 24 Rig Down Lines                         |                              |

# TEP - PA 411-25 - 9 5/8 SURFACE CASING

