

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

United States of America, COLORADO

### **For: Terra**

Date: Sunday, May 06, 2018

### **RU 414-17 Surface**

API#05-045-23747

Sincerely,

**Grand Junction Cement Engineering**

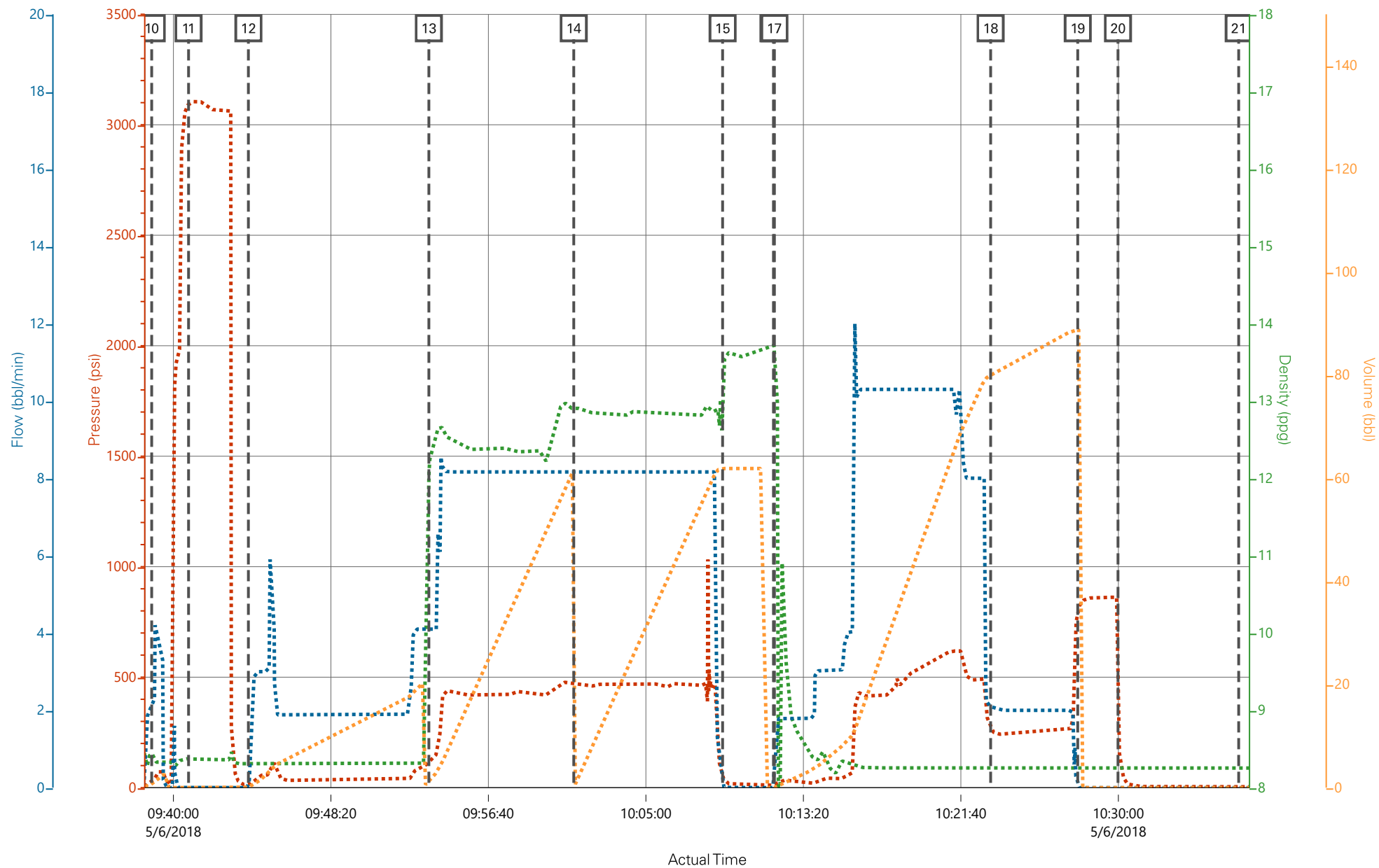
## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	5/6/2018	01:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	5/6/2018	04:15:00	USER					
Event	3	Crew Leave Yard	5/6/2018	04:20:00	USER					
Event	4	Arrive At Loc	5/6/2018	06:30:00	USER					
Event	5	Assessment Of Location Safety Meeting	5/6/2018	06:45:00	USER					
Event	6	Pre-Rig Up Safety Meeting	5/6/2018	07:30:00	USER					JSA COMPLETE
Event	7	Rig-Up Equipment	5/6/2018	07:45:00	USER					
Event	8	Other	5/6/2018	07:50:00	USER					TP- 1134, TD-1140, F.C- 1085.85, HOLE-13 1/2, MUD#-9.1
Event	9	Pre-Job Safety Meeting	5/6/2018	09:00:00	USER					JSA COMPLETE
Event	10	Start Job	5/6/2018	09:38:51	COM4					
Event	11	Test Lines	5/6/2018	09:40:48	COM4	3106	8.33	0.00	0.10	3106 PSI
Event	12	Pump Spacer 1	5/6/2018	09:43:58	COM4	95.0	8.33	4.00	20.0	FRESH WATER
Event	13	Pump Lead Cement	5/6/2018	09:53:31	COM4	425.0	12.30	8.00	53	125 SKS VARICEM, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Pump Tail Cement	5/6/2018	10:01:11	COM4	473.00	12.80	8.00	470	175 SKS VARICEM, 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	15	Shutdown	5/6/2018	10:09:04	COM4					TO DROP TOP PLUG, AND WASH UP ON TOP OF PLUG
Event	16	Drop Top Plug	5/6/2018	10:11:45	COM4					AWAY
Event	17	Pump Displacement	5/6/2018	10:11:48	COM4	560	8.33	10.00	85.5	FRESH WATER
Event	18	SLOW RATE	5/6/2018	10:23:15	COM4	264.0	8.33	2.00	75.00	TO BUMP PLUG

Event	19	Bump Plug	5/6/2018	10:27:51	COM4	260.0	8.33	2.00	85.5	PLUG BUMPED
Event	20	Check Floats	5/6/2018	10:29:59	USER	848.0	8.33	0.00	0.00	FLOATS HELD, 0.5 BBLS BACK TO TRUCK
Event	21	End Job	5/6/2018	10:36:22	COM4					30 BBLS CEMENT TO SURFACE, GOOD RETURNS THROUGHOUT JOB, NO PIPE MOVEMENT
Event	22	Post-Job Safety Meeting	5/6/2018	10:40:00	USER					JSA COMPLETE
Event	23	Rig Down Lines	5/6/2018	11:00:00	USER					
Event	24	Crew Leave Location	5/6/2018	12:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

# TEP - RU 414-17 - 9 5/8 SURFACE CASING



DS Pump Press (psi) 4    DH Density (ppg) 8.25    Comb Pump Rate (bbl/min) 0    Pump Stg Tot (bbl) 0