

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: Terra

Date: Friday, December 28, 2018

NR 414-3 Surface PJR

API# 05-045-23911-00

Sincerely,

Grand Junction Cement Engineering

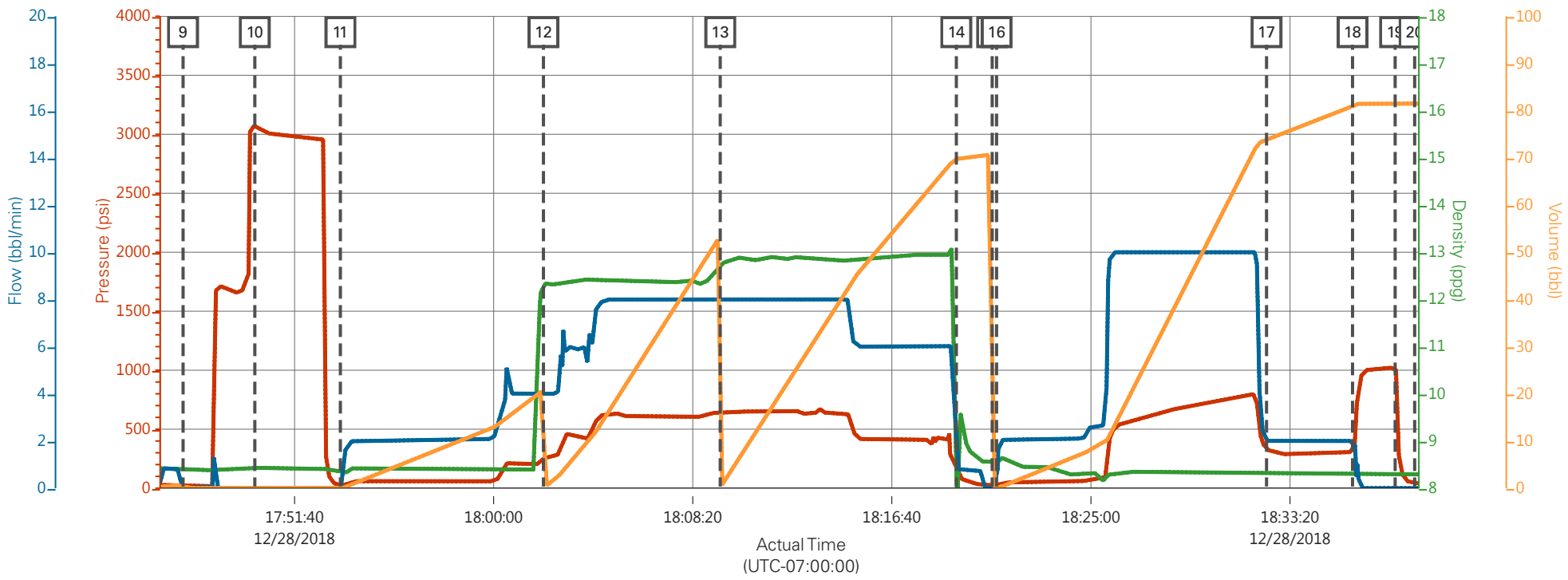
2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	12/28/2018	08:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	12/28/2018	10:45:00	USER					JOURNEY MANAGEMENT COMPLETE, AS WELL AS JSA
Event	3	Crew Leave Yard	12/28/2018	11:00:00	USER					
Event	4	Arrive At Loc	12/28/2018	13:00:00	USER					JOURNEY MANAGEMENT CLOSED OUT. RIG POOH W/ DP
Event	5	Assessment Of Location Safety Meeting	12/28/2018	13:30:00	USER					
Event	6	Pre-Rig Up Safety Meeting	12/28/2018	13:45:00	USER					JSA COMPLETE
Event	7	Rig-Up Equipment	12/28/2018	14:00:00	USER					
Event	8	Other	12/28/2018	14:03:10	USER					WATER TEST: PH-7, CL-0, TEMP-63 WELL INFO: 9 5/8 36# CASING TOTAL 1116.63, TD-1123, S.J.-42.46, HOLE- 13.5". MUD#- 9.6
Event	9	Other	12/28/2018	14:05:00	USER					MUD SCALES CHECKED WITH WATER PRIOR TO JOB.
Event	10	Pre-Job Safety Meeting	12/28/2018	17:00:00	USER					JSA COMPLETE
Event	11	Prime Pumps	12/28/2018	17:37:10	COM5					FRESH WATER
Event	12	Start Job	12/28/2018	17:47:00	COM5					

Event	13	Test Lines	12/28/2018	17:50:00	COM5			2999.00		2999 PSI
Event	14	Pump Spacer 1	12/28/2018	17:53:35	COM5	8.33	4.00	254.00	20.00	FRESH WATER
Event	15	Pump Lead Cement	12/28/2018	18:02:05	COM5	12.30	8.00	330.00	53.0	125 SKS VARICEM, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	16	Pump Tail Cement	12/28/2018	18:09:29	COM5	12.80	8.00	634.00	65.8	175 SKS VARICEM, 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	17	Shutdown	12/28/2018	18:19:22	USER					TO BUMP PLUG, AND WASH UP ON TOP OF PLUG
Event	18	Drop Top Plug	12/28/2018	18:20:52	USER					AWAY, USING POSITIVE DISPLACEMENT
Event	19	Pump Displacement	12/28/2018	18:21:03	COM5	8.33	10.00	791.00	83.00	FRESH WATER
Event	20	Slow Rate	12/28/2018	18:32:21	USER	8.33	2.00	320.00	73.00	TO BUMP PLUG
Event	21	Bump Plug	12/28/2018	18:35:57	COM5	8.33	2.00	315.00	83.00	PLUG BUMPED ON CALCULATED
Event	22	Check Floats	12/28/2018	18:37:44	USER			1022.00		FLOATS HELD 0.5 BBLS BACK TO TRUCK
Event	23	End Job	12/28/2018	18:38:33	COM5					GOOD CIRCULATION THROUGHOUT JOB, NO PIPE MOVEMENT, 25 GOOD BBLS OF CEMENT TO SURFACE
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	12/28/2018	19:00:00	USER					
Event	25	Crew Leave Location	12/28/2018	20:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

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Description	Actual Time (UTC-07:00:00)	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	
9 Start Job	17:47:00	22.00	8.42	0.00	0.70	
10 Test Lines	17:50:00	3064.00	8.44	0.00	0.10	
11 Pump Spacer 1	17:53:35	20.00	8.37	0.00	0.00	
12 Pump Lead Cement	18:02:05	250.00	12.34	4.00	20.80	
13 Pump Tail Cement	18:09:29	634.00	12.73	8.00	0.10	
14 Shutdown	18:19:22	157.00	9.67	0.80	69.80	
15 Drop Top Plug	18:20:52	24.00	8.54	0.00	0.00	
16 Pump Displacement	18:21:03	23.00	8.54	0.00	0.00	
17 Slow Rate	18:32:21	351.00	8.31	2.00	74.00	
18 Bump Plug	18:35:57	305.00	8.31	2.00	81.10	
19 Check Floats	18:37:44	1021.00	8.32	0.00	81.50	
20 End Job	18:38:33	34.00	8.29	0.00	81.50	

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