

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: Terra

Date: Tuesday, June 11, 2019

RWF 511-17 Surface PJR

API# 05-045-24037-00

Sincerely,

Grand Junction Cement Engineering

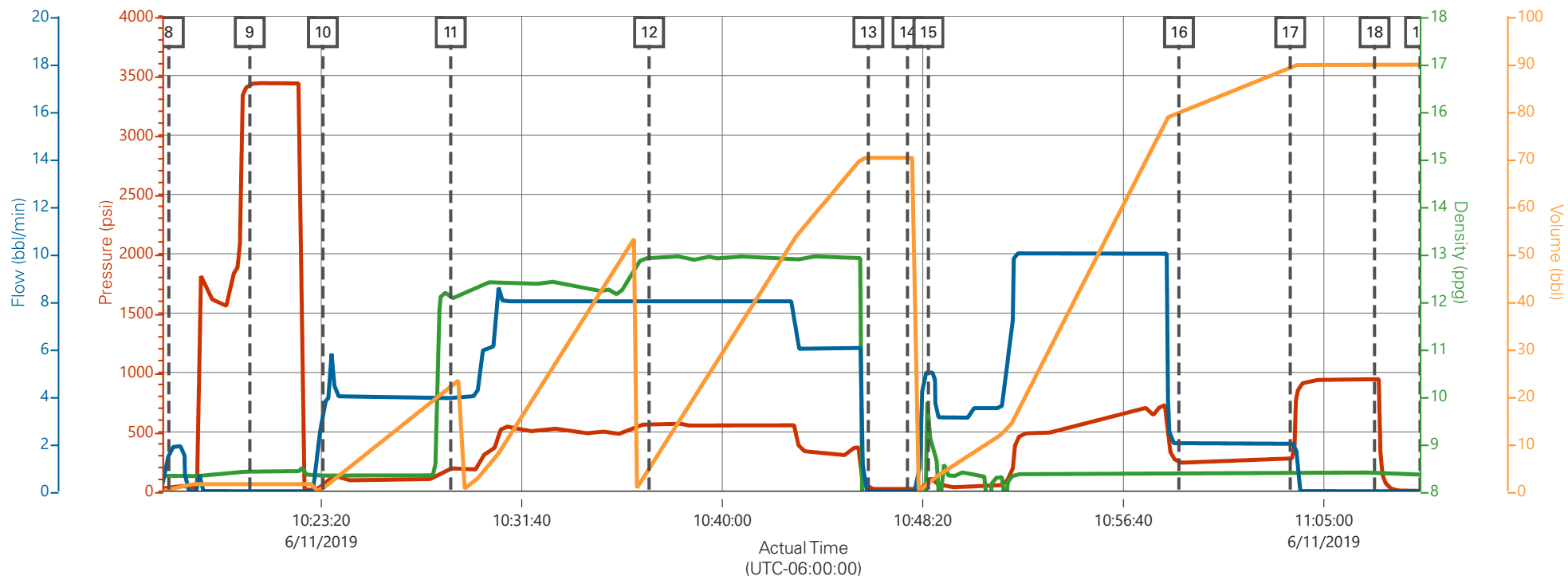
2.0 Real-Time Job Summary

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	6/11/2019	04:00:00	USER					
Event	2	Crew Leave Yard	6/11/2019	06:00:00	USER					
Event	3	Pre-Convoy Safety Meeting	6/11/2019	06:30:00	USER					JOURNEY MANAGEMENT COMPLETE, AS WELL AS JSA
Event	4	Arrive At Loc	6/11/2019	08:00:00	USER					JOURNEY MANAGEMENT CLOSED OUT. RIG RUNNING CASING
Event	5	Pre-Rig Up Safety Meeting	6/11/2019	08:10:00	USER					JSA COMPLETE
Event	6	Assessment Of Location Safety Meeting	6/11/2019	08:10:00	USER					
Event	7	Rig-Up Equipment	6/11/2019	08:25:00	USER					
Event	8	Other	6/11/2019	08:30:00	USER					WATER TEST: PH-7, CL-0, TEMP-63 WELL INFO: 9 5/8 36# CASING TOTAL 1141.33, TD-1146, S.J.-43.04, HOLE- 13.5". MUD#- 9.3
Event	9	Other	6/11/2019	08:45:00	USER					MUD SCALES CHECKED WITH WATER PRIOR TO JOB.
Event	10	Pre-Job Safety Meeting	6/11/2019	09:30:00	USER					JSA COMPLETE
Event	11	Start Job	6/11/2019	10:17:00	COM5					
Event	12	Test Lines	6/11/2019	10:20:22	USER			3437.00		3437 PSI

Event	13	Pump Spacer 1	6/11/2019	10:23:24	USER	8.33	3.00	48.00	20.00	FRESH WATER
Event	14	Pump Lead Cement	6/11/2019	10:28:43	USER	12.30	8.00	470.00	53.0	125 SKS VARICEM, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	15	Pump Tail Cement	6/11/2019	10:36:58	USER	12.80	8.00	560.00	65.8	175 SKS VARICEM, 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Shutdown	6/11/2019	10:46:04	USER					TO BUMP PLUG, AND WASH UP ON TOP OF PLUG
Event	17	Drop Top Plug	6/11/2019	10:47:42	USER					AWAY, USING POSITIVE DISPLACEMENT
Event	18	Pump Displacement	6/11/2019	10:48:34	USER	8.33	10.00	720.0	84.9	FRESH WATER
Event	19	Slow Rate	6/11/2019	10:58:59	USER	8.33	2.00	244.00	74.9	TO BUMP PLUG
Event	20	Bump Plug	6/11/2019	11:03:36	USER	8.33	2.00	276.00	84.9	PLUG BUMPED ON CALCULATED
Event	21	Check Floats	6/11/2019	11:07:06	USER			944.00		FLOATS HELD 0.5 BBLS BACK TO TRUCK
Event	22	End Job	6/11/2019	11:09:00	USER					GOOD CIRCULATION THROUGHOUT JOB, NO PIPE MOVEMENT, 15 GOOD BBLS OF CEMENT TO SURFACE
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	6/11/2019	11:12:32	USER					
Event	24	Crew Leave Location	6/11/2019	12:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

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Description	Actual Time (UTC-06:00:00)	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)
8 Start Job	10:17:00	23.00	8.32	1.50	0.30
9 Test Lines	10:20:22	3428.00	8.42	0.00	1.50
10 Pump Spacer 1	10:23:24	48.00	8.33	3.00	0.60
11 Pump Lead Cement	10:28:43	194.00	12.08	3.90	22.10
12 Pump Tail Cement	10:36:58	564.00	12.90	8.00	4.70
13 Shutdown	10:46:04	33.00	0.03	0.00	70.20
14 Drop Top Plug	10:47:42	14.00	-0.01	0.00	70.20
15 Pump Displacement	10:48:34	113.00	9.56	5.00	1.60
16 Slow Rate	10:58:59	244.00	8.36	2.00	79.80
17 Bump Plug	11:03:36	276.00	8.36	2.00	89.30
18 Check Floats	11:07:06	944.00	8.39	0.00	89.80
19 End Job	11:09:00	3.00	8.37	0.00	89.80

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