

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Tuesday, May 01, 2018

PA 432-26 Surface PJR

Sincerely,

Grand Junction Cement Engineering

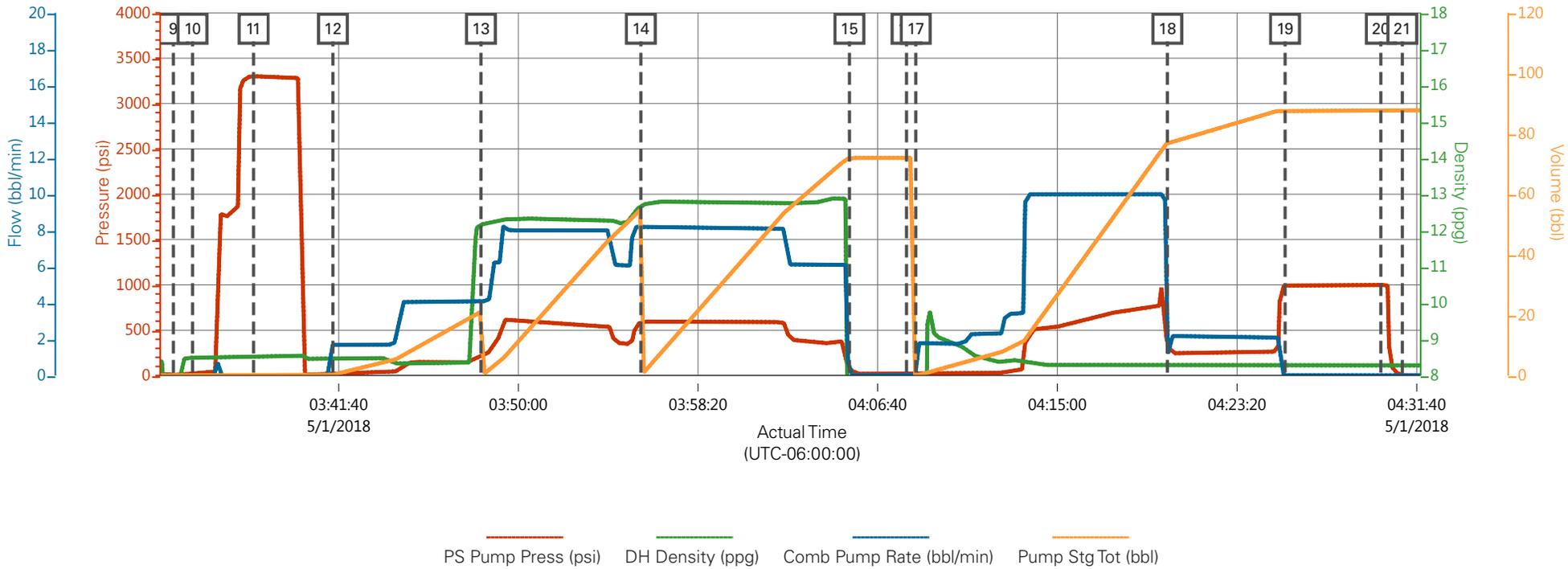
1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Arrive at Location from Service Center	4/30/2018	00:10:00	USER					RIG RUNNING CASING
Event	2	Call Out	4/30/2018	20:30:00	USER					REQUESTED ON LOCATION @ 0200
Event	3	Pre-Convoy Safety Meeting	4/30/2018	22:50:00	USER					ALL HES PRESENT
Event	4	Crew Leave Yard	4/30/2018	23:00:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	5	Assessment Of Location Safety Meeting	5/1/2018	00:15:00	USER					MET WITH COMP REP AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 64F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	5/1/2018	00:30:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	5/1/2018	02:00:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	5/1/2018	03:00:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	5/1/2018	03:34:00	COM3					TD 1135', TP 1125', SJ 44.5', OH 13.5", CSG 9.625" 36#, MUD 9.2 PPG. RIG CIRCULATED WELL FOR APPROX 30 MIN.
Event	10	Prime Pumps	5/1/2018	03:34:53	USER	38.00	8.33	1.00	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	5/1/2018	03:37:43	COM3	3301.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 3301 PSI

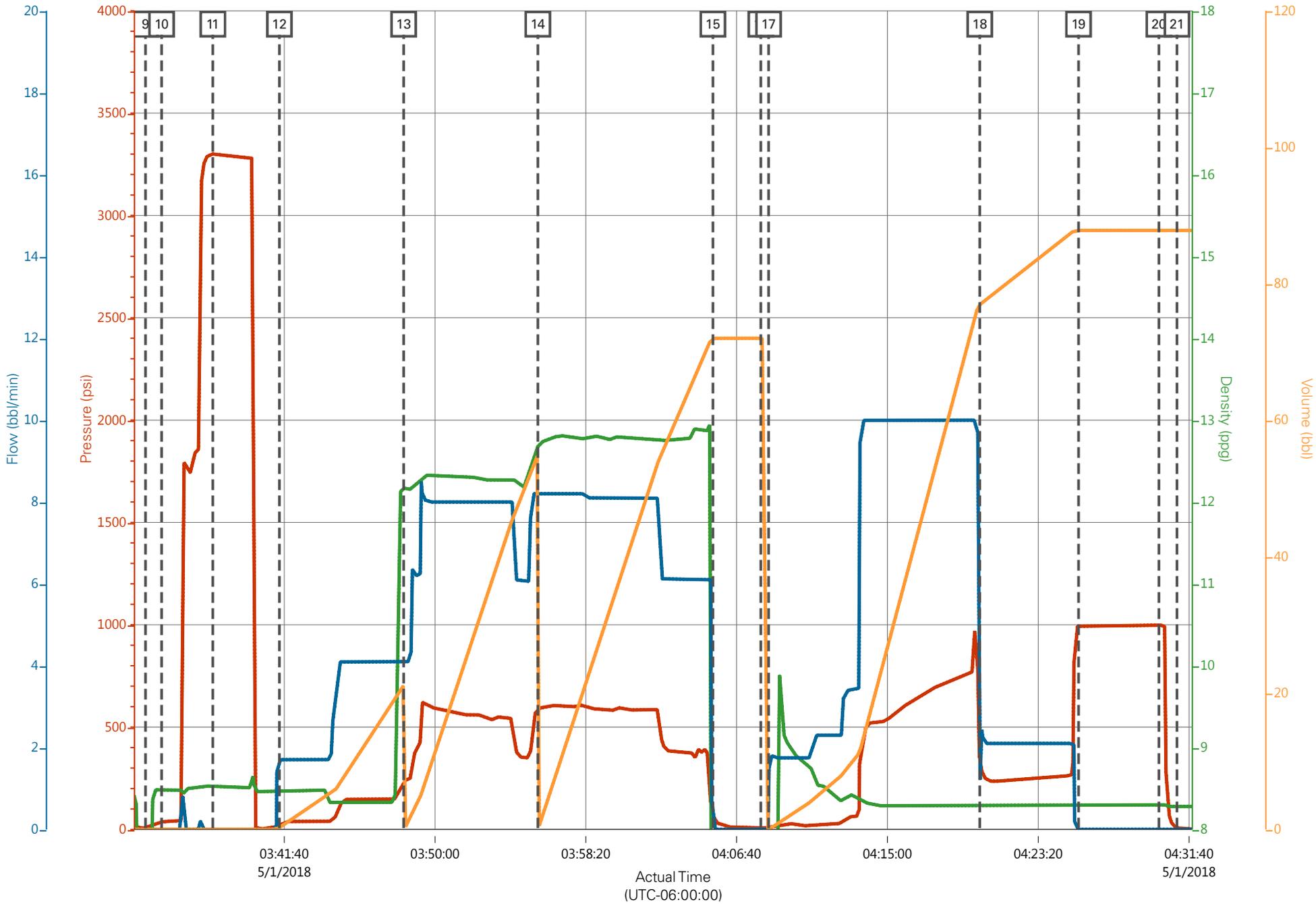
Event	12	Pump Spacer 1	5/1/2018	03:41:24	COM3	128.00	8.33	4.00	20.00	8.33 PPG FRESH WATER (20 BBL)
Event	13	Pump Lead Cement	5/1/2018	03:48:16	COM3	535.00	12.28	8.00	53.00	VARICEM CEMENT 125 SKS (53 BBLs), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Pump Tail Cement	5/1/2018	03:55:41	COM3	593.00	12.78	8.00	65.90	VARICEM CEMENT 175 SKS (66 BBLs), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	15	Shutdown	5/1/2018	04:05:21	USER					END OF CMT
Event	16	Drop Top Plug	5/1/2018	04:08:00	USER					PLUG WENT, VERIFIED BY CO REP
Event	17	Pump Displacement	5/1/2018	04:08:26	COM3	807.00	8.33	10.00	73.70	8.34 PPG FRESH WATER (83.7 BBLs)
Event	18	Slow Rate	5/1/2018	04:20:06	USER	332.00	8.33	2.00	10.00	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	19	Bump Plug	5/1/2018	04:25:34	USER	995.00	8.30	2.00	83.80	LAND PLUG AT 331 PSI, BROUGHT UP TO 995 PSI FOR A 10 MIN CSG TEST.
Event	20	Check Floats	5/1/2018	04:30:00	USER	997.00	8.30	0.00	83.80	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	21	End Job	5/1/2018	04:31:00	COM3					RETURNS THROUGHOUT JOB, 23 BBL OF CEMENT BACK TO SURFACE
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	5/1/2018	04:32:42	USER					ALL HES PRESENT
Event	23	Rig-Down Completed	5/1/2018	05:00:00	USER					ALL HES PRESENT
Event	24	Pre-Convoy Safety Meeting	5/1/2018	05:30:00	USER					ALL HES PRESENT
Event	25	Crew Leave Location	5/1/2018	05:40:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

TEP PA 432-26 Surface



Description	Actual Time (UTC-06:00:00)	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)
9 Start Job	03:34:00	5.00	0.18	0.00	0.00
10 Prime Pumps	03:34:53	38.00	8.49	0.00	0.00
11 Test Lines	03:37:43	3301.00	8.53	0.00	0.00
12 Pump Spacer 1	03:41:24	27.00	8.45	1.70	0.20
13 Pump Lead Cement	03:48:16	235.00	12.18	4.10	0.00
14 Pump Tail Cement	03:55:41	593.00	12.68	8.20	54.90
15 Shutdown	04:05:21	73.00	0.68	0.00	72.00
16 Drop Top Plug	04:08:00	8.00	-0.02	0.00	72.00
17 Pump Displacement	04:08:26	7.00	-0.03	0.20	0.00
18 Slow Rate	04:20:06	332.00	8.28	1.20	77.00
19 Bump Plug	04:25:34	996.00	8.30	0.00	87.80
20 Check Floats	04:30:00	997.00	8.30	0.00	87.80
21 End Job	04:31:00	4.00	8.28	0.00	87.80

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