

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Terra**

Date: Tuesday, May 01, 2018

**RU 314-17 Surface PJR**

API# 05-045-23744-00

Sincerely,

**Grand Junction Cement Engineering**

## 1.0 Real-Time Job Summary

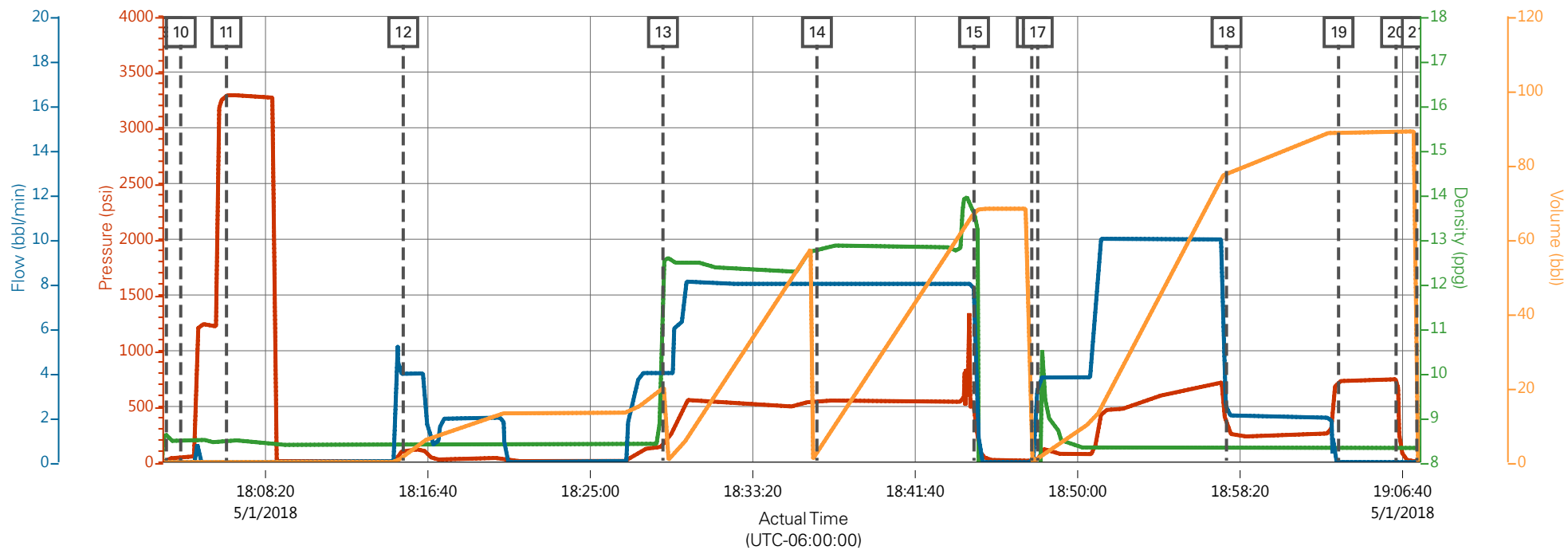
## 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pmp Stg Tot (bbl)	Comments
Event	1	Call Out	5/1/2018	11:00:00	USER					REQUESTED ON LOCATION @ 1700
Event	2	Pre-Convoy Safety Meeting	5/1/2018	13:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	5/1/2018	13:05:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive at Location from Service Center	5/1/2018	16:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	5/1/2018	16:05:00	USER					MET WITH COMP REP AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 71F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	5/1/2018	16:30:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	5/1/2018	17:30:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	5/1/2018	17:39:35	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	5/1/2018	18:03:15	COM6					TD 1135', TP 1128.78', SJ 42.14', OH 13.5", CSG 9.625" 32.3#, MUD 9.1 PPG. RIG CIRCULATED WELL FOR APPROX 1 HR.
Event	10	Prime Pumps	5/1/2018	18:03:59	USER	47.00	8.33	1.00	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	5/1/2018	18:06:20	COM6	3292.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 3292 PSI
Event	12	Pump Spacer 1	5/1/2018	18:15:24	COM6	108.00	8.33	4.00	20.00	8.33 PPG FRESH WATER (20 BBL), SHUTDOWN

FOR BLM TO CONFIRM WELL DATA

Event	13	Pump Lead Cement	5/1/2018	18:28:43	COM6	166.00	12.30	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	18:36:37	COM6	543.00	12.80	8.00	66.00	VARICEM CEMENT 175 SKS (66 BBLS), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	15	Shutdown	5/1/2018	18:44:41	USER					END OF CMT
Event	16	Drop Top Plug	5/1/2018	18:47:39	USER					PLUG WENT, VERIFIED BY CO REP
Event	17	Pump Displacement	5/1/2018	18:47:57	COM6	717.00	8.33	10.00	75.20	8.34 PPG FRESH WATER (85.2 BBLS)
Event	18	Slow Rate	5/1/2018	18:57:38	USER	259.00	8.33	2.00	10.00	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	19	Bump Plug	5/1/2018	19:03:23	USER	732.00	8.33	2.00	85.20	LAND PLUG AT 259 PSI, BROUGHT UP TO 732 PSI FOR A 10 MIN CSG TEST.
Event	20	Check Floats	5/1/2018	19:06:20	USER	744.00	8.33	0.00	85.20	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	21	End Job	5/1/2018	19:07:24	COM6					RETURNS THROUGHOUT JOB, 22 BBL OF CEMENT BACK TO SURFACE
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	5/1/2018	19:11:12	USER					ALL HES PRESENT
Event	23	Rig-Down Completed	5/1/2018	19:35:00	USER					ALL HES PRESENT
Event	24	Pre-Convoy Safety Meeting	5/1/2018	19:50:00	USER					ALL HES PRESENT
Event	25	Crew Leave Location	5/1/2018	19:55:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

## TEP RU 314-17 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	18:03:15	5.00	8.63	0.00	0.00	
10 Prime Pumps	18:03:59	47.00	8.49	0.00	0.00	
11 Test Lines	18:06:20	3292.00	8.49	0.00	0.00	
12 Pump Spacer 1	18:15:24	108.00	8.41	4.00	1.60	
13 Pump Lead Cement	18:28:43	166.00	12.03	4.00	19.90	
14 Pump Tail Cement	18:36:37	543.00	12.78	8.00	2.50	
15 Shutdown	18:44:41	541.00	13.56	6.40	67.10	
16 Drop Top Plug	18:47:39	12.00	0.09	0.00	0.00	
17 Pump Displacement	18:47:57	21.00	0.10	3.50	0.50	
18 Slow Rate	18:57:38	321.00	8.32	2.10	77.90	
19 Bump Plug	19:03:23	721.00	8.34	0.00	89.00	
20 Check Floats	19:06:20	744.00	8.34	0.00	89.00	
21 End Job	19:07:24	0.00	8.32	0.00	0.00	

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