

HALLIBURTON

iCem[®] Service

TEP ROCKY MOUNTAIN LLC

For: Terra

Date: Sunday, April 01, 2018

RU 313-17 Surface PJR

API #05-045-23743

Sincerely,

Grand Junction Cement Engineer

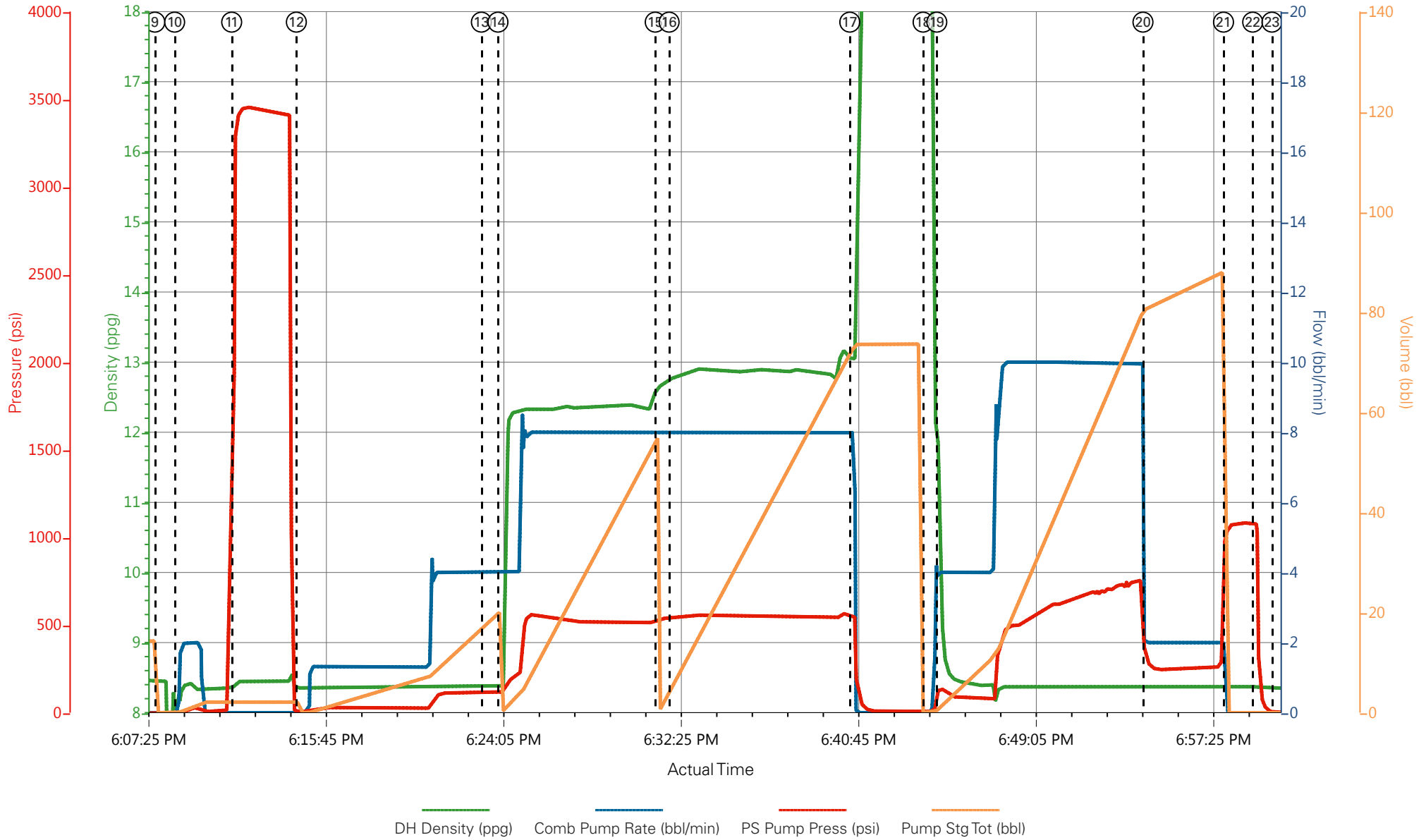
1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	4/1/2018	11:00:00	USER					REQUESTED ON LOCATION @ 17:00
Event	2	4/1/2018	13:45:00	USER					ALL HES PRESENT
Event	3	4/1/2018	14:00:00	USER					1 HT 400 PUMP TRUCK E4, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	4/1/2018	16:00:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5	4/1/2018	16:05:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE. COMPANY REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	4/1/2018	16:15:00	USER					1 HT 400 PUMP TRUCK E4, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	7	4/1/2018	16:30:00	USER					ALL HES PRESENT
Event	8	4/1/2018	18:00:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 11 BPM WITH 266 PSI.
Event	9	4/1/2018	18:07:52	COM5					TD 1131', TP 1125', OH 13 1/2", CSG 9 5/8" 32.3# H-40, SJ 41.25', MUD 9.5 PPG

Event	10	4/1/2018	18:08:47	USER	8.33	2.0	27	2	FRESH WATER
Event	11	4/1/2018	18:11:28	COM5			3455		PRESSURE HELD
Event	12	4/1/2018	18:14:30	COM5	8.33	4.0	116	20	FRESH WATER
Event	13	4/1/2018	18:23:12	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	14	4/1/2018	18:23:58	COM5	12.3	8.0	540	53	125 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK.
Event	15	4/1/2018	18:31:21	COM5	12.8	8.0	540	65.7	175 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	4/1/2018	18:32:01	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	4/1/2018	18:40:30	USER					END OF CEMENT
Event	18	4/1/2018	18:43:56	COM5					VERIFIED BY FLAG INDICATOR
Event	19	4/1/2018	18:44:35	COM5	8.33	10.0	750	75.3	FRESH WATER
Event	20	4/1/2018	18:54:16	COM5	8.33	2.0	250	10	SLOWED TO BUMP PLUG
Event	21	4/1/2018	18:58:02	COM5	8.33	2.0	260	85.3	PLUG BUMPED
Event	22	4/1/2018	18:59:25	USER			1080		FLOATS HELD 1/2 BBL FLOW BACK TO TRUCK
Event	23	4/1/2018	19:00:19	COM5					32 BBL CEMENT TO SURFACE USED 40 LBS SUGAR
Event	24	4/1/2018	19:15:00	USER					ALL HES PRESENT
Event	25	4/1/2018	20:15:00	USER					ALL HES PRESENT
Event	26	4/1/2018	20:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, DUSTIN HYDE AND CREW

TERRA - RU 313-17 - 9 5/8" SURFACE



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|---|-----------------------------|--------------------|---------------------|---|------------------------|
| ① Call Out | ⑥ Spot Equipment | ⑪ Test Lines | ⑯ Check weight | 21 Bump Plug | 26 Crew Leave Location |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Rig Up Safety Meeting | ⑫ Pump Spacer | ⑰ Shutdown | 22 Check Floats | |
| ③ Crew Leave Yard | ⑧ Pre-Job Safety Meeting | ⑬ Check weight | ⑱ DropTop Plug | 23 End Job | |
| ④ Arrive At Loc | ⑨ Start Job | ⑭ Pump Lead Cement | ⑲ Pump Displacement | 24 Post-Job Safety Meeting (Pre Rig-Down) | |
| ⑤ Assessment Of Location Safety Meeting | ⑩ Prime Lines | ⑮ Pump Tail Cement | 20 Slow Rate | 25 Pre-Convoy Safety Meeting | |

▼ HALLIBURTON | iCem® Service

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Edit

Customer : TEP ROCKY MOUNTAIN LLC
 Representative : NATHAN BURR

Job Date : 4/1/2018
 Sales Order # : 904745826

Well : RU 313-17
 ELITE #4 : HYDE / P SALAZAR

TERRA - RU 313-17 - 9 5/8" SURFACE

