

HALLIBURTON

iCem[®] Service

TEP ROCKY MOUNTAIN LLC

For: Lynn Cass/Abe Alexander/Mark Mewshaw

Date: Monday, August 22, 2016

RU 412-7 Surface

API# 05-045-23230-00

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

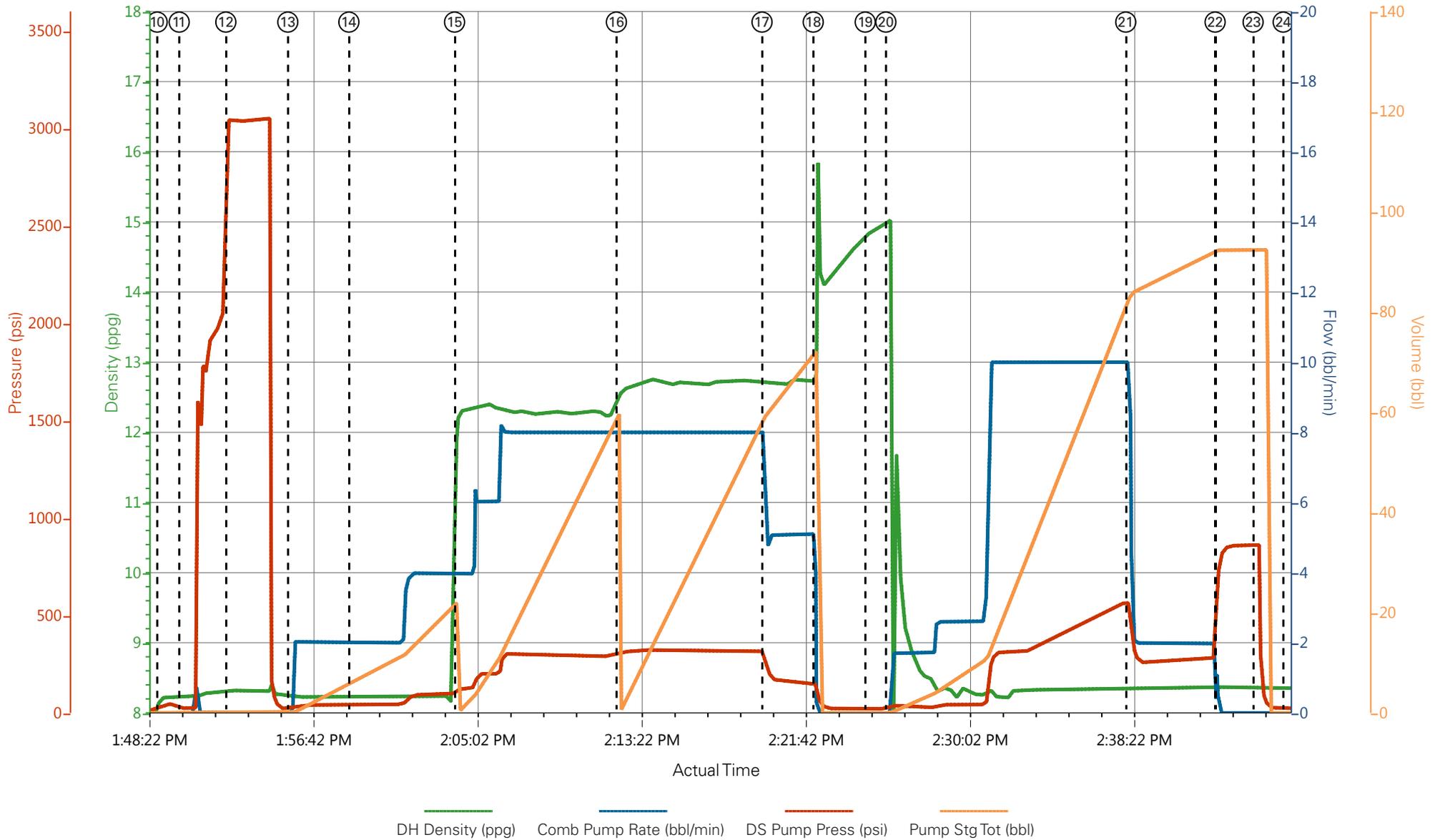
1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	DS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	8/22/2016	02:00:00	USER					REQUESTED ON LOCATION @ 08:00
Event	2	Pre-Convoy Safety Meeting	8/22/2016	04:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	8/22/2016	05:00:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	8/22/2016	07:00:00	USER					RIG RUNNING A WIPER TRIP
Event	5	Assessment Of Location Safety Meeting	8/22/2016	07:15:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7.5, CHLORIDES- 0, TEMP- 64F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Spot Equipment	8/22/2016	12:00:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	7	Pre-Rig Up Safety Meeting	8/22/2016	12:15:00	USER					ALL HES PRESENT
Event	8	Rig-Up Equipment	8/22/2016	12:30:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	9	Pre-Job Safety Meeting	8/22/2016	13:47:06	USER					ALL HES AND RIG CREWS PRESENT

Event	10	Start Job	8/22/2016	13:48:55	USER						TD 1185', TP 1179.36', SJ 45.98', OH 13.5", CSG 9 5/8" 32.3# H-40 SET @1175.38', MUD 9.5 PPG
Event	11	Prime Lines	8/22/2016	13:50:02	USER	8.33		55	2		FRESH WATER
Event	12	Test Lines	8/22/2016	13:52:24	COM5					3095	PRESSURE HELD
Event	13	Pump H2O Spacer	8/22/2016	13:55:33	COM5	8.33	4.0	95	20		FRESH WATER
Event	14	Check weight	8/22/2016	13:58:39	COM5						WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Lead Cement	8/22/2016	14:04:01	COM5	12.3	8.0	320	55.1		130 SKS OF VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	16	Pump Tail Cement	8/22/2016	14:12:14	COM5	12.7	8.0	350	65.8		175 SKS VARICEM CMT 12.78 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	17	Slow Rate	8/22/2016	14:19:37	USER						SLOWED TO END CMT
Event	18	Shutdown	8/22/2016	14:22:14	USER						END OF CMT
Event	19	Drop Top Plug	8/22/2016	14:24:52	USER						VERIFIED BY FLAG INDICATOR
Event	20	Pump Displacement	8/22/2016	14:25:55	COM5	8.33	10	585	79.6		FRESH WATER
Event	21	Slow Rate	8/22/2016	14:38:06	USER	8.33	2.0	285	10		SLOWED TO BUMP PLUG
Event	22	Bump Plug	8/22/2016	14:42:38	COM5	8.33	2.0	890	89.6		PLUG BUMPED
Event	23	Check Floats	8/22/2016	14:44:33	USER						FLOATS HELD .5 BBL FLOW BACK
Event	24	End Job	8/22/2016	14:46:05	COM5						18 BBL CMT TO SURFACE USED 40 LBS SUGAR
Event	26	Post-Job Safety Meeting (Pre Rig-Down)	8/22/2016	15:00:00	USER						ALL HES PRESENT

Event	27	Rig-Down Completed	8/22/2016	16:30:00	USER	NO INJURIES TO REPORT
Event	28	Pre-Convoy Safety Meeting	8/22/2016	16:45:00	USER	ALL HES PRESENT
Event	29	Crew Leave Location	8/22/2016	17:00:00	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENT, DUSTIN HYDE AND CREW

TERRA - RU 412-7 - 9 5/8" SURFACE



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|---|-----------------------------|--------------------|----------------------|-----------------|---|
| ① Call Out | ⑥ Spot Equipment | ⑪ Prime Lines | ⑯ Pump Tail Cement | 21 Slow Rate | 26 Post-Job Safety Meeting (Pre Rig-Down) |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Rig Up Safety Meeting | ⑫ Test Lines | ⑰ Slow Rate | 22 Bump Plug | 27 Rig-Down Completed |
| ③ Crew Leave Yard | ⑧ Rig-Up Equipment | ⑬ Pump Spacer 1 | ⑱ Shutdown | 23 Check Floats | 28 Pre-Convoy Safety Meeting |
| ④ Arrive At Loc | ⑨ Pre-Job Safety Meeting | ⑭ Check weight | ⑲ Drop Top Plug | 24 Other | 29 Crew Leave Location |
| ⑤ Assessment Of Location Safety Meeting | ⑩ Start Job | ⑮ Pump Lead Cement | 20 Pump Displacement | 25 End Job | |

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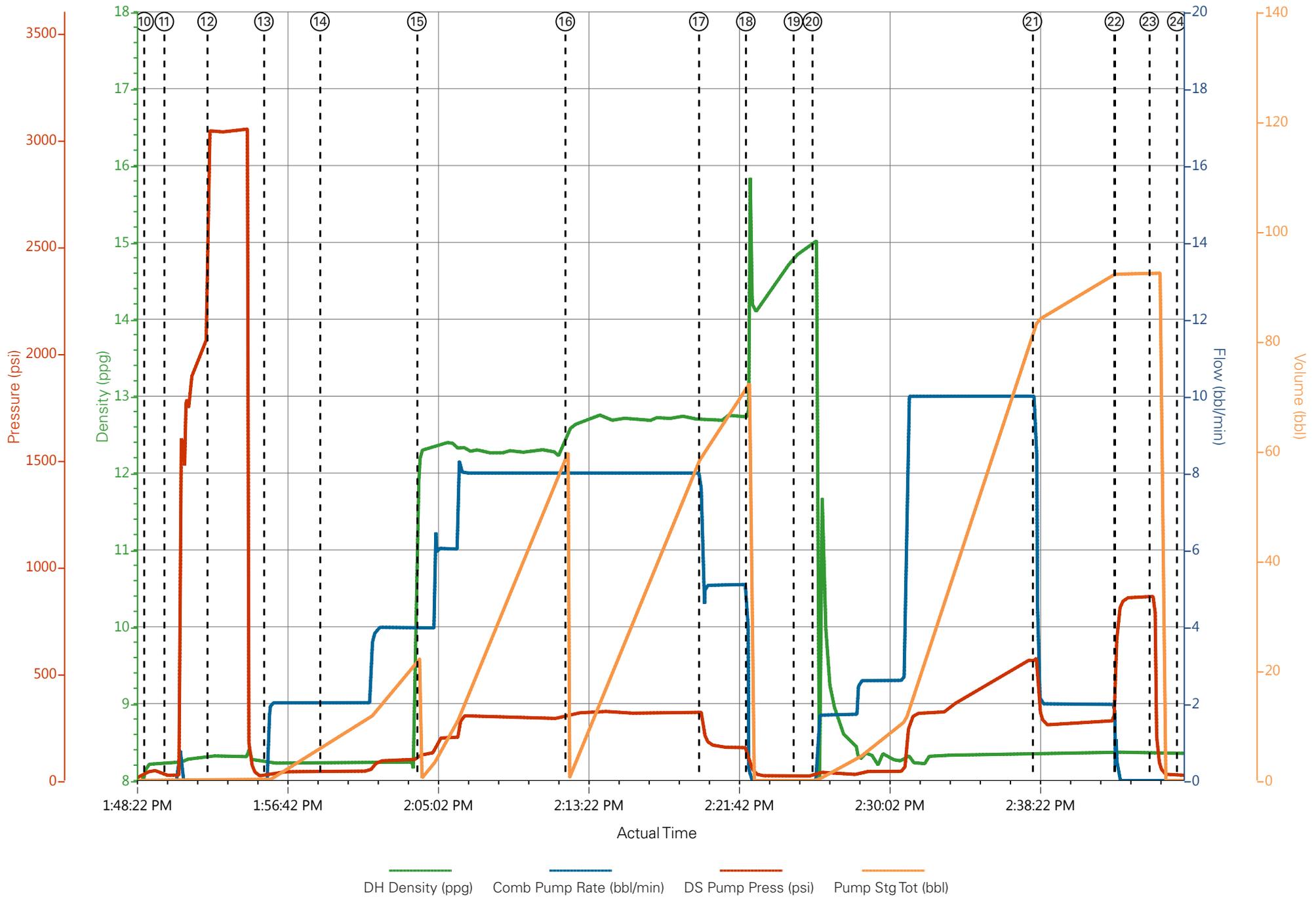
Edit

Customer: TEP ROCKY MOUNTAIN LLC
 Representative: JARVIS ABBEY

Job Date: 8/22/2016
 Sales Order #: 903496132

Well: RU 412-7
 ELITE 8: ADAM ANGELO

TERRA - RU 412-7 - 9 5/8" SURFACE



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