

# HALLIBURTON

iCem<sup>®</sup> Service

## **TEP ROCKY MOUNTAIN LLC-EBUS**

**For: TERRA**

Date: Monday, August 20, 2018

**NR 611-3 Surface PJR**

API #: 05-045-23906

Sincerely,

**Grand Junction Cement Engineering**

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

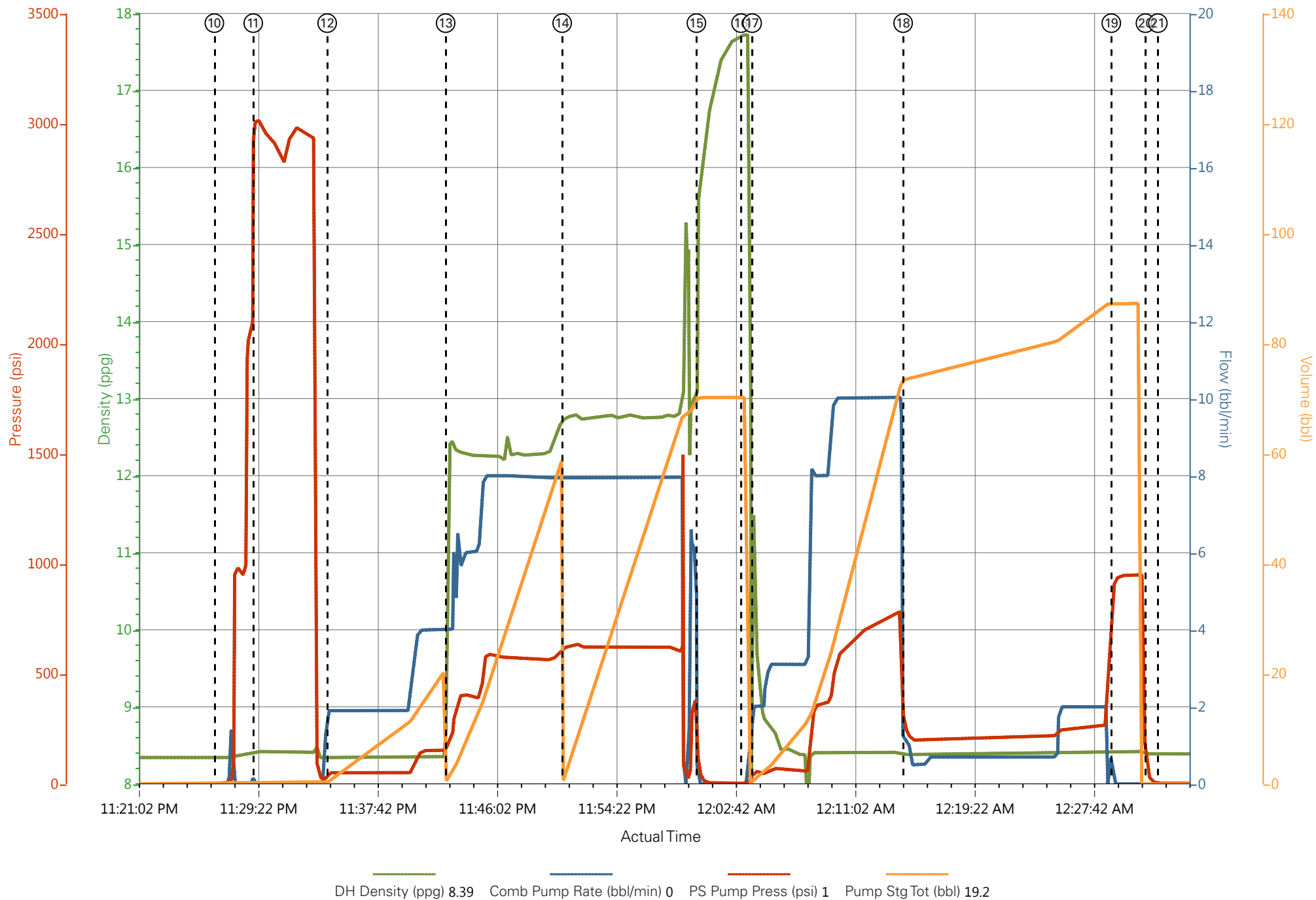
Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	8/19/2018	15:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	8/19/2018	17:55:00	USER					
Event	3	Crew Leave Yard	8/19/2018	18:00:00	USER					
Event	4	Arrive At Loc	8/19/2018	19:30:00	USER					CREW WAS REQUESTED TO BE ON LOCATION @ 2130, CREW ARRIVED 2 HRS EARLY, RIG WAS GETTING READY TO RUN CASING
Event	5	Assessment Of Location Safety Meeting	8/19/2018	19:35:00	USER					
Event	6	Spot Equipment	8/19/2018	19:45:00	USER					
Event	7	Pre-Rig Up Safety Meeting	8/19/2018	19:50:00	USER					
Event	8	Rig-Up Equipment	8/19/2018	19:55:00	USER					
Event	9	Pre-Job Safety Meeting	8/19/2018	20:49:58	USER					PRESSURIZED MUD SCALES VERIFIED ON DRINKING WATER.
Event	10	Start Job	8/19/2018	23:26:30	COM5					TD: 1138 TP: 1128 SJ: 44.68' MW: 9.5 9 5/8" 36#/FT CSG IN 13 1/2" OH WATER TEST: PH: 7 POTASSIUM: 700 CHORIDES: 0 SULFATES: <200 TEMP: 70 DEG
Event	11	Test Lines	8/19/2018	23:29:12	COM5			3000.0		3000 PSI TEST SUCCESSFUL

Event	12	Pump Spacer 1	8/19/2018	23:34:22	COM5	8.33	4.00	120.00	20.0	FRESH H2O SPACER
Event	13	Pump Lead Cement	8/19/2018	23:42:38	COM5	12.30	8.00	276.00	53.0	125 SKS @ 12.3 PPG 2.38 YLD 13.77 GAL/SK H2O
Event	14	Pump Tail Cement	8/19/2018	23:50:46	COM5	12.80	8.00	618.00	65.8	175 SKS @ 12.8 PPG 2.11 YLD 11.78 GAL/SK H2O
Event	15	Shutdown	8/20/2018	00:00:08	USER					
Event	16	Drop Top Plug	8/20/2018	00:03:15	COM5					PLUG AWAY
Event	17	Pump Displacement	8/20/2018	00:04:02	COM5	8.33	10.00	360.00	83.7	FRESH H2O DISPLACEMENT
Event	18	Slow Rate	8/20/2018	00:14:34	USER	8.33	1.00	245.00	69.0	HAD TO SLOW RATE EARLY DUE TO RIG'S RETURN LINE FROM CELLAR BEING PLUGGED. SLOWED TO 1 BPM @ 69 BBL AWAY. RESUMED TO 2 BPM @ 77 BBL AWAY, 245 PSI.
Event	19	Bump Plug	8/20/2018	00:29:06	COM5	8.33	2.00	912.00	83.7	PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	20	Check Floats	8/20/2018	00:31:29	COM5					FLOATS HELD, GAINED 0.5 BBL BACK
Event	21	End Job	8/20/2018	00:32:21	COM5					
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	8/20/2018	00:40:00	USER					PIPE WAS LEFT STATIC THROUGHOUT JOB. GOOD CIRCULATION THROUGHOUT JOB. CIRCULATED 28 BBL CMT TO SURFACE. 60# SUGAR USED, NO ADD HOURS CHARGED.
Event	23	Rig-Down Equipment	8/20/2018	00:45:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JCT, CO
Event	24	Pre-Convoy Safety Meeting	8/20/2018	01:55:00	USER					ANTHONY ANDREWS AND CREW

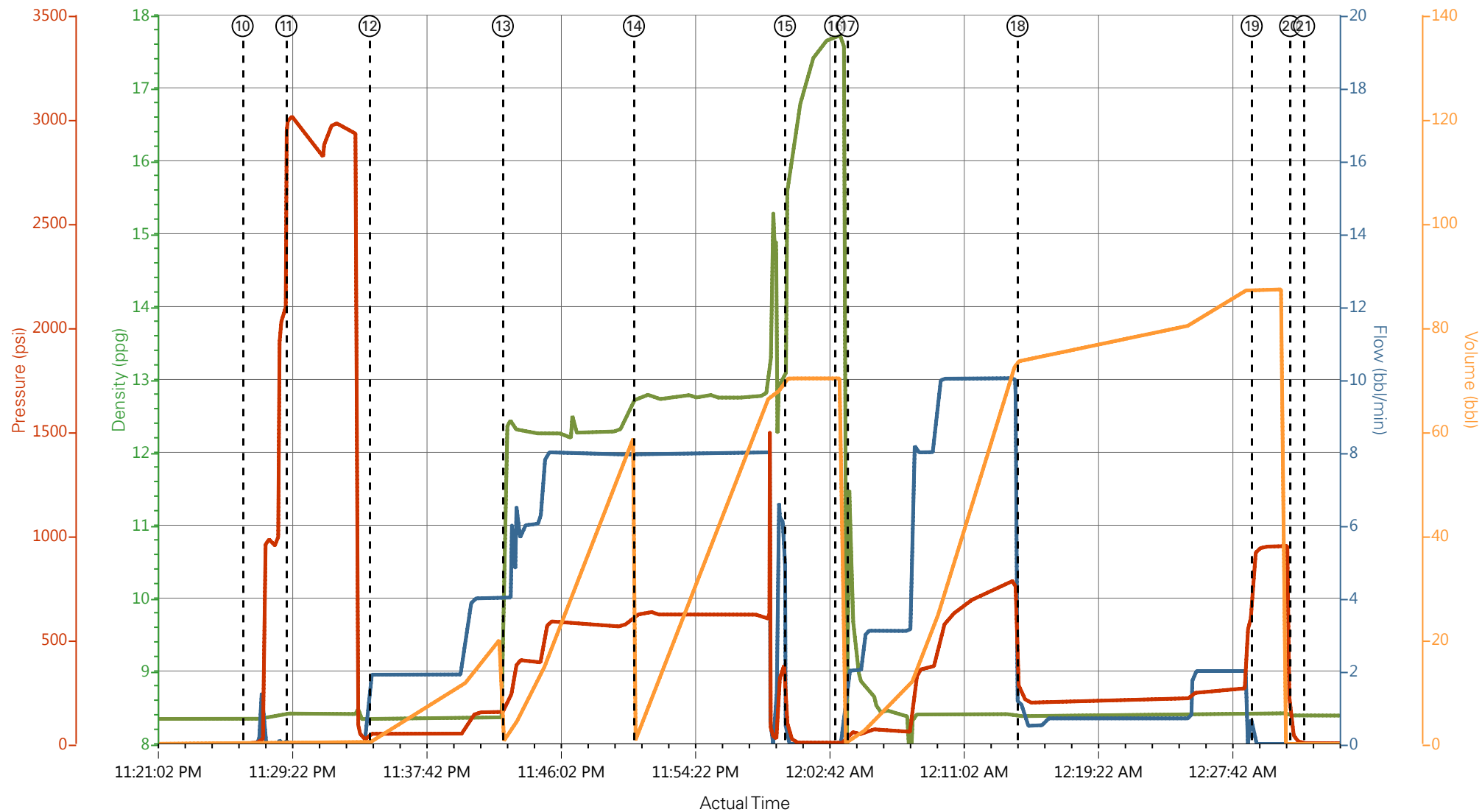
Event	25	Crew Leave Location	8/20/2018	02:00:00	USER
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# TEP - NR 611-3 - 9 5/8" SURFACE



# TEP - NR 611-3 - 9 5/8" SURFACE



DH Density (ppg) 8.39    Comb Pump Rate (bbl/min) 0    PS Pump Press (psi) 1    Pump Stg Tot (bbl) 19.2

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

▼ **HALLIBURTON** | iCem® Service

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Edit

Customer : TEP ROCKY MOUNTAIN LLC-EBUS

Job Date : 8/19/2018 8:42:30 PM

Well : NR 611-3

Representative : NATHAN BURR

Sales Order # : 905071047

ELITE 4 : KIEL KRIST/ ANTHONY ANDREWS