

# HALLIBURTON

iCem<sup>®</sup> Service

## **TEP ROCKY MOUNTAIN LLC**

**For: Terra Energy Partners**

Date: Saturday, November 04, 2017

**WARE SR 23-12**

API: 05-045-23439-00

Sincerely,

**Grand Junction Cement Engineering**

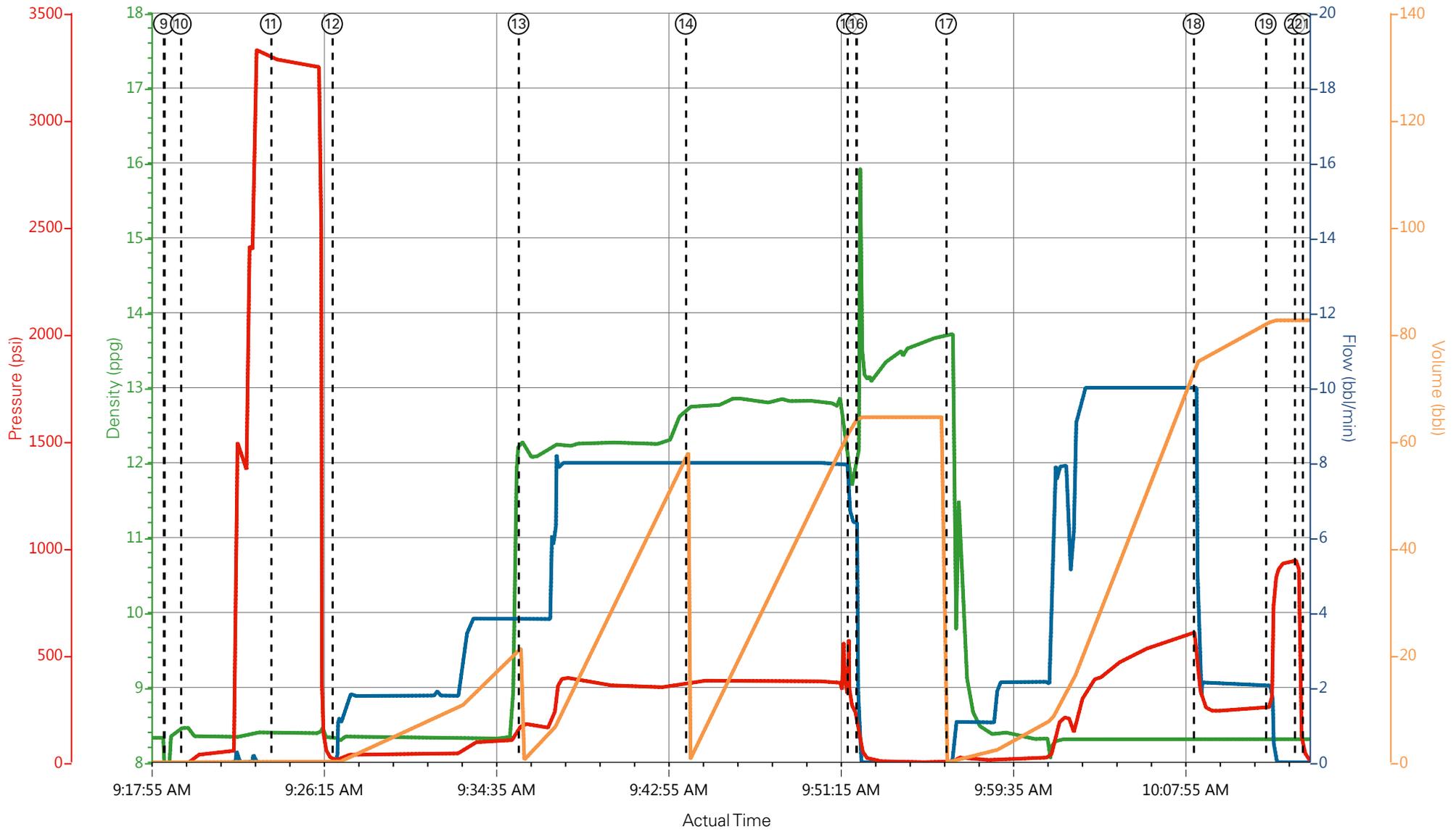
## 1.0 Real-Time Job Summary

### 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>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	11/4/2017	02:00:00	USER					REQUESTED ON LOCATION @ 8:00
Event	2	Pre-Convoy Safety Meeting	11/4/2017	04:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	11/4/2017	05:00:00	USER					1 HT 400 PUMP TRUCK E2, 1 660 BULK TRUCKS, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	11/4/2017	07:00:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	11/4/2017	07:15:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE. COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Spot Equipment	11/4/2017	07:30:00	USER					1 HT 400 PUMP TRUCK E2, 1 660 BULK TRUCKS, 1 550 SERVICE PICKUP
Event	7	Pre-Rig Up Safety Meeting	11/4/2017	08:15:00	USER					ALL HES PRESENT
Event	8	Pre-Job Safety Meeting	11/4/2017	09:00:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED FOR 1 HR @ 11.8 BPM PRIOR TO JOB, PRESSURE @645 PSI
Event	9	Start Job	11/4/2017	09:18:40	USER					TD 1150', TP 1144' OF 9 5/8" 32.3# H-40 SURFACE CSG, FC @ 1097', SJ 41.06', OH 13.5", MUD 9.0 PPG
Event	10	Prime Pumps	11/4/2017	09:19:29	USER	8.33			3	PRIMED LINES WITH 6X5
Event	11	Test Lines	11/4/2017	09:23:50	COM5			3300		PRESSURE HELD
Event	12	Pump H2O Spacer	11/4/2017	09:26:48	COM5	8.33	4.0	97	20	FRESH WATER
Event	13	Pump Lead Cement	11/4/2017	09:35:49	COM5	12.3	8.0	350	53	125 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Pump Tail Cement	11/4/2017	09:43:54	COM5	12.8	8.0	380	65.8	175 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78

											GAL/SK
Event	15	Slow Rate	11/4/2017	09:51:43	USER						SLOWED TO END CEMENT
Event	16	Shutdown	11/4/2017	09:52:09	USER						END OF CEMENT
Event	17	Pump Displacement	11/4/2017	09:56:30	COM5	8.33	10.0	600	76.8		FRESH WATER, WASHED UP ONTOP OF PLUG
Event	18	Slow Rate	11/4/2017	10:08:28	USER	8.33	2.0	240	10		SLOW TO BUMP PLUG
Event	19	Bump Plug	11/4/2017	10:11:57	USER	8.33	2.0	250	86.8		PLUG BUMPED
Event	20	Check Floats	11/4/2017	10:13:22	USER				940		FLOATS HELD .5 BBL FLOW BACK
Event	21	End Job	11/4/2017	10:13:44	USER						RETURNS THROUGHOUT JOB 26 BBL CEMENT TO SURFACE, USED 30 LBS SUGAR
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	11/4/2017	10:30:00	USER						ALL HES PRESENT
Event	23	Pre-Convoy Safety Meeting	11/4/2017	11:45:00	USER						ALL HES PRESENT
Event	24	Crew Leave Location	11/4/2017	12:00:00	USER						THANK YOU FOR CHOOSING HALLIBURTON CEMENT, DUSTIN HYDE AND CREW

TERRA - WARE SR 23-12 - 9 5/8" SURFACE



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

- ① Call Out      ③ Crew Leave Yard      ⑤ Assessment Of Location Safety Meeting      ⑦ Pre-Rig Up Safety Meeting      ⑨ Start Job      ⑪ Test Lines      ⑬ Pump Lead Cement      ⑮ Slo
- ② Pre-Convoy Safety Meeting      ④ Arrive At Loc      ⑥ Spot Equipment      ⑧ Pre-Job Safety Meeting      ⑩ Prime Pumps      ⑫ Pump H2O Spacer      ⑭ Pump Tail Cement      ⑯ Shu



**HALLIBURTON** | iCem® Service

Created: 2017-11-04 08:26:18, Version: 4.2.393

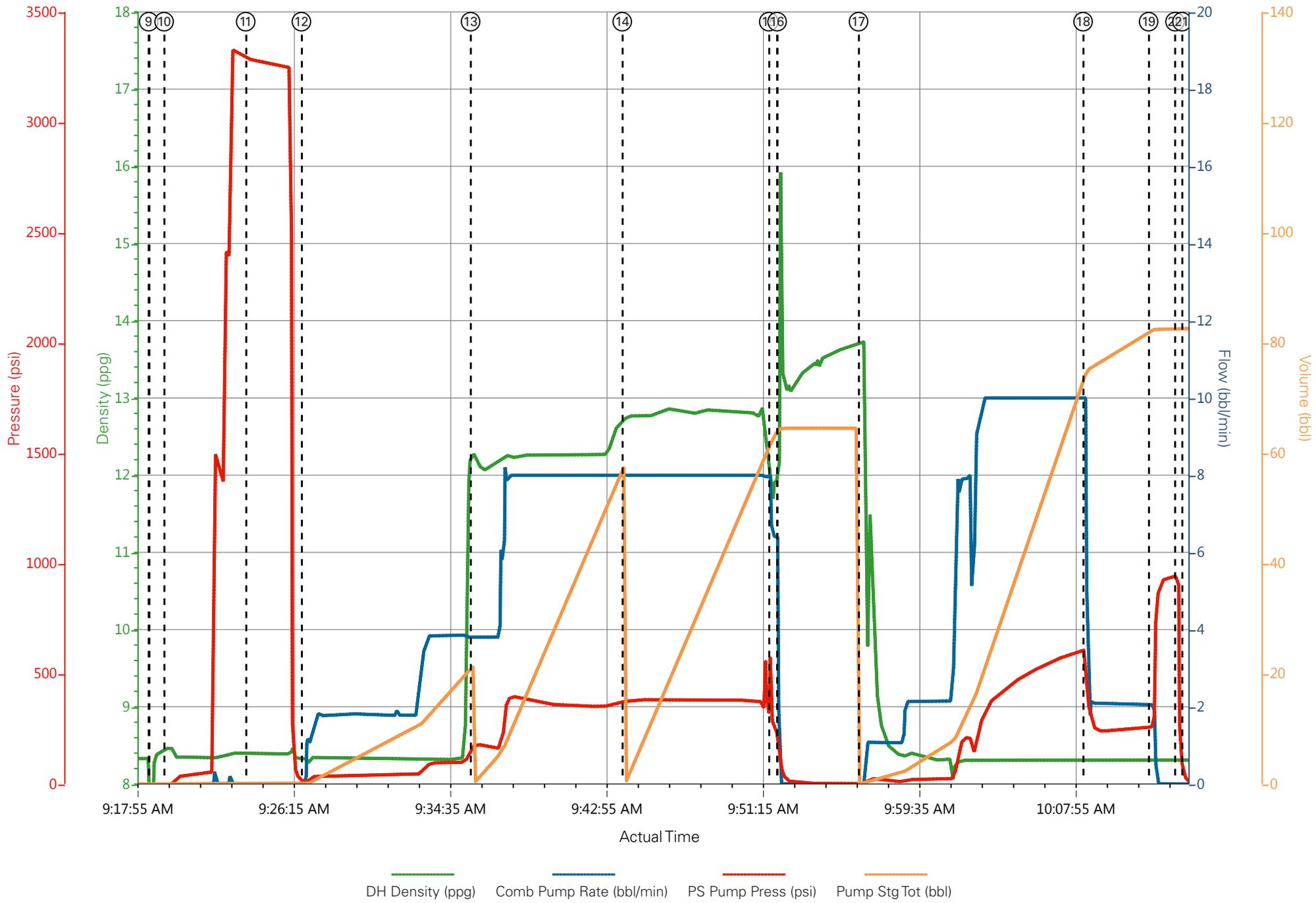
[Edit](#)

Customer: TEP ROCKY MOUNTAIN LLC  
 Representative: BOBBY BROWN

Job Date: 11/4/2017  
 Sales Order #: 904413901

Well: WARE SR 23-12  
 ELITE 2: PORTER / HYDE

TERRA - WARE SR 23-12 - 9 5/8" SURFACE



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