

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

SR 314-12 Surface PJR

API #: 05-045-23453

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

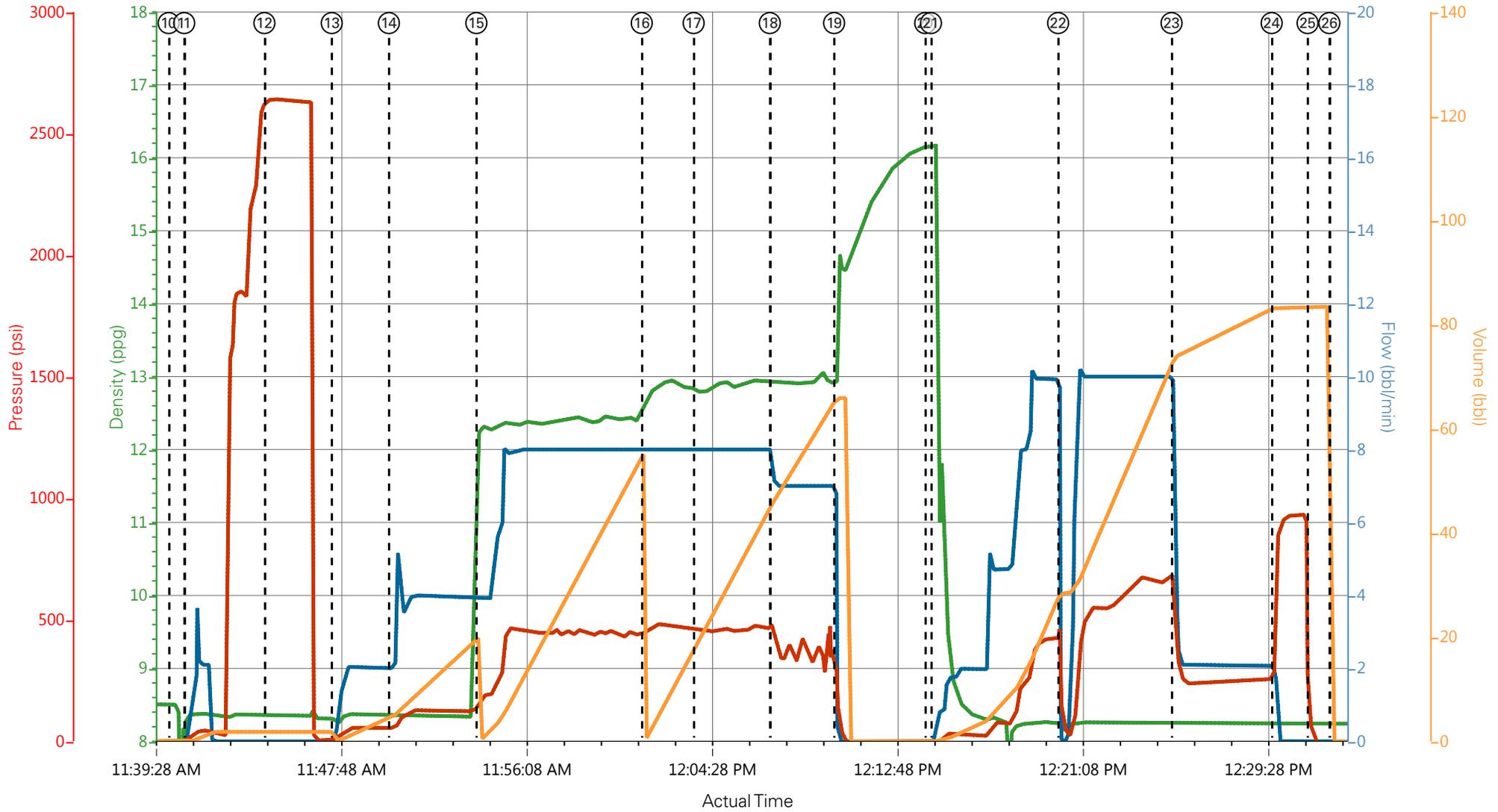
2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density <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	2/9/2018	00:48:00	USER					ON LOCATION REQUESTED 7:00, DEPART FROM BRUTON 31-01E
Event	2	Pre-Convoy Safety Meeting	2/9/2018	02:23:50	USER					HES PRESENT
Event	3	Crew Leave Location	2/9/2018	02:30:00	USER					
Event	4	Arrive at Location from Other Job or Site	2/9/2018	06:00:00	USER					RIG HAD NOT STARTED CASING
Event	5	Assessment Of Location Safety Meeting	2/9/2018	06:05:00	USER					MET WITH COMPANY REP DISCUSSED PROCEDURE, SDS OFFERED
Event	6	Pre-Rig Up Safety Meeting	2/9/2018	09:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	2/9/2018	09:45:00	USER					1-ELITE, 1-660 BULK TRAILER, 9.625" QL, 2" PUMP IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	2/9/2018	11:15:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Other	2/9/2018	11:35:00	USER					RIG CIRCULATED BOTTOMS UP AND A QUARTER 450GPM, 330PSI . WATER:TEMP-52, CL-0, PH-7
Event	10	Start Job	2/9/2018	11:40:11	USER	8.40	0.00	2.00	0.0	TD-1158', TP-1161.51', SJ-46.52', OH-13.5", CSG-9.625" 32.3#, MUD-9.5PPG

Event	11	Fill Lines	2/9/2018	11:40:52	COM5	8.38	0.00	40.00	3.0	FRESH WATER
Event	12	Test Lines	2/9/2018	11:44:29	COM5	8.37	0.00	2636.00	3.1	ALL PRESSURE HELD
Event	13	Pump H2o Spacer	2/9/2018	11:47:30	COM5	8.31	4.00	128.00	20.0	FRESH WATER
Event	14	Check weight	2/9/2018	11:50:04	COM5					WEIGHT VERIFIED BY PRESSURIZED MUD SCALES
Event	15	Pump Lead Cement	2/9/2018	11:54:00	COM5	12.30	8.00	450.00	53.0	VARICEM 125SKS, 12.3PPG, 2.38CF/SK, 13.77GAL/SK
Event	16	Pump Tail Cement	2/9/2018	12:01:26	COM5	12.80	8.00	473.00	65.8	VARICEM 175SKS, 12.8PPG, 2.11CF/SK, 11.78GAL/SK
Event	17	Check weight	2/9/2018	12:03:46	COM5					VERIFIED BY PRESSURE MUD SCALES
Event	18	Slow Rate	2/9/2018	12:07:12	USER	12.80	7.50	447.00	45.8	SLOWED TO END CEMENT
Event	19	Shutdown	2/9/2018	12:10:05	USER				65.8	END OF CEMENT, WASH UP ON TOP OF PLUG
Event	20	Drop Top Plug	2/9/2018	12:14:11	USER					VERIFIED BY PLUG INDICATOR
Event	21	Pump Displacement	2/9/2018	12:14:27	COM5	8.35	10.00	690.00	87.8	FRESH WATER
Event	22	Hit Kick outs	2/9/2018	12:20:10	USER	8.38	0.00	460.00	28.4	HIT KICK OUTS, RESET TO HIGHER PRESSURE AND BROUGHT RATE BACK UP
Event	23	Slow Rate	2/9/2018	12:25:15	USER	8.26	2.00	239.00	78.0	SLOWED RATE TO 2BPM TO BUMP PLUG
Event	24	Bump Plug	2/9/2018	12:29:46	COM5	8.25	1.90	250.00	87.8	PLUG BUMPED 250PSI
Event	25	Check Floats	2/9/2018	12:31:22	USER	8.24	0.00	938.00	87.8	FLOATS HELD, 1/2BBL BACK TO TRUCK
Event	26	End Job	2/9/2018	12:32:21	COM5					GOOD RETURNS THROUGHOUT JOB, 28 BBLs CEMENT TO SURFACE
Event	27	Post-Job Safety Meeting (Pre Rig-Down)	2/9/2018	12:35:00	USER					ALL HES PRESENT

Event	28	Rig-Down Completed	2/9/2018	13:15:00	USER	
Event	29	Pre-Convoy Safety Meeting	2/9/2018	13:30:00	USER	ALL HES PRESENT
Event	30	Crew Leave Location	2/9/2018	13:35:00	USER	THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

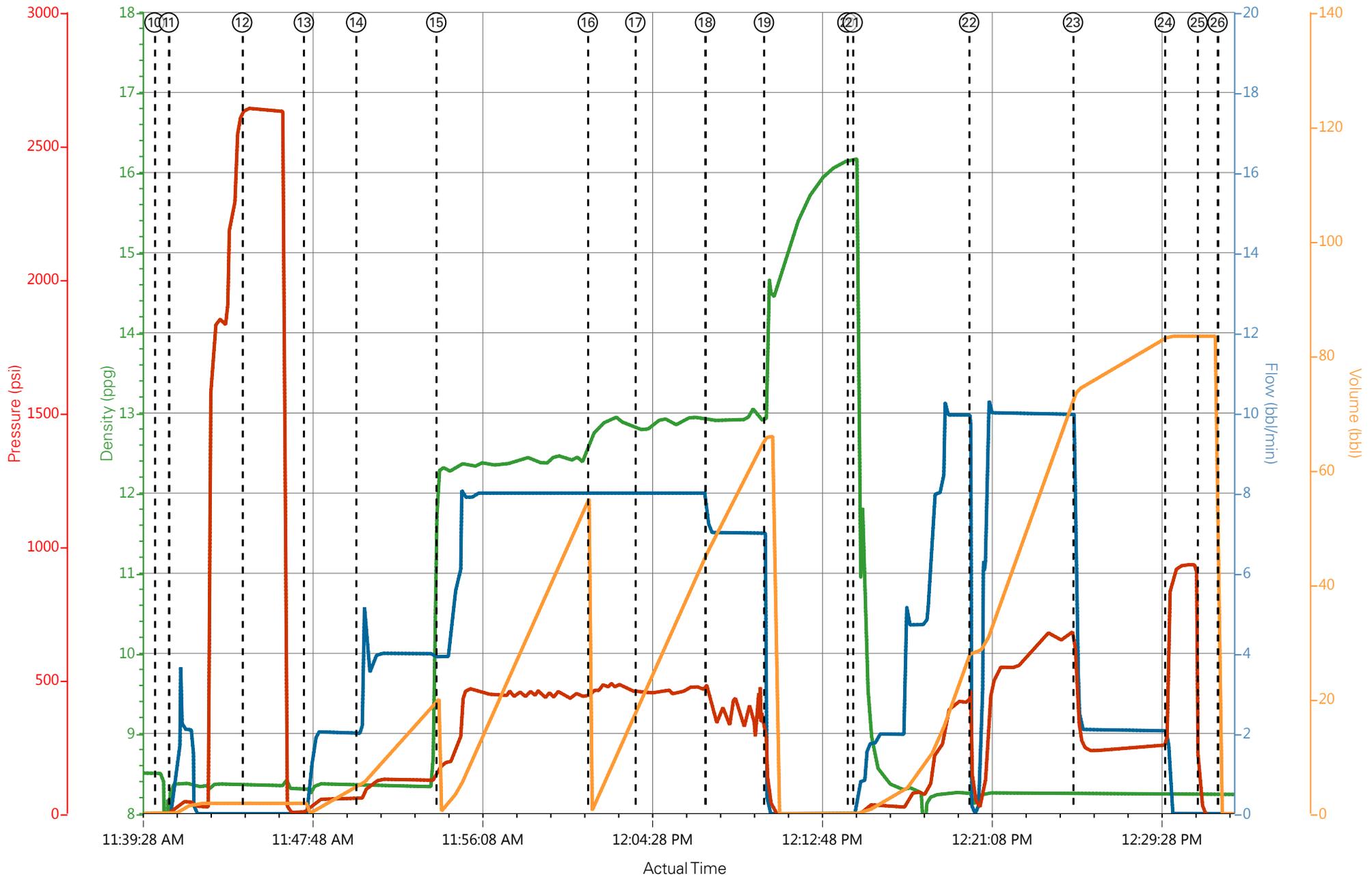
TEP - SR 314-12 - 9.625" SURFACE



DH Density (ppg) 8.24 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) -22 Pump Stg Tot (bbl) 0

- | | | | | | |
|---|-----------------------------|--------------------|--------------------|----------------------|---|
| ① Call Out | ⑥ Pre-Rig Up Safety Meeting | ⑪ Fill Lines | ⑯ Pump Tail Cement | 21 Pump Displacement | 26 End Job |
| ② Pre-Convoy Safety Meeting | ⑦ Rig-Up Completed | ⑫ Test Lines | ⑰ Check weight | 22 Hit Kick outs | 27 Post-Job Safety Meeting (Pre Rig-Down) |
| ③ Crew Leave Location | ⑧ Pre-Job Safety Meeting | ⑬ Pump H2o Spacer | ⑱ Slow Rate | 23 Slow Rate | 28 Rig-Down Completed |
| ④ Arrive at Location from Other Job or Site | ⑨ Other | ⑭ Check weight | ⑲ Shutdown | 24 Bump Plug | 29 Pre-Convoy Safety Meeting |
| ⑤ Assessment Of Location Safety Meeting | ⑩ Start Job | ⑮ Pump Lead Cement | 20 Drop Top Plug | 25 Check Floats | 30 Crew Leave Location |

TEP - SR 314-12 - 9.625" SURFACE



DH Density (ppg) 8.24 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) -22 Pump Stg Tot (bbl) 0