

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra Energy

Ware SR 513-12

API # 05-045-23441-00

Ware SR 513-12 SURFACE

Job Date: Thursday, December 21, 2017

Sincerely,

Grand Junction Cement Engineering

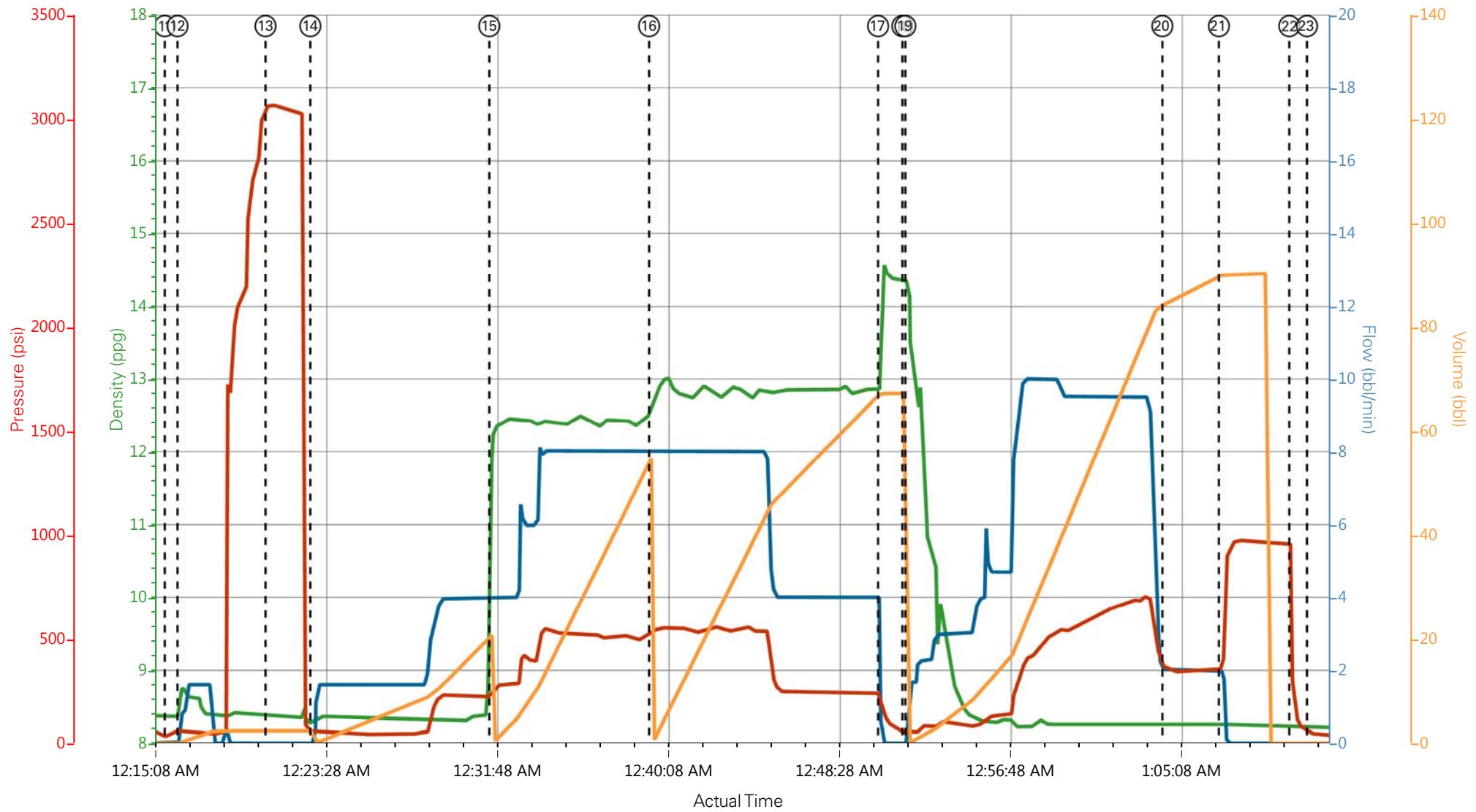
1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	12/21/17	13:30:00	USER					ON LOCATION REQUESTED 20:00
Event	2	Pre-Convoy Safety Meeting	12/21/17	16:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	12/21/17	16:15:00	USER					
Event	4	Arrive at Location from Service Center	12/21/17	19:00:00	USER					RIG HAD NOT STARTED CASING
Event	5	Assessment Of Location Safety Meeting	12/21/17	19:15:00	USER					MET WITH COMPANY REP, DISCUSSED PROCEDURES. SDS OFFERED
Event	6	Pre-Rig Up Safety Meeting	12/21/17	19:30:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	12/21/17	23:19:00	USER					1-ELITE, 1-660 BULK TRAILER, 9.625" QL PLUG CONTAINER, 2" PUMP IRON, 4" SUCTION HOSE
Event	9	Pre-Job Safety Meeting	12/21/17	23:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	10	Other	12/21/17	23:35:00	USER					WATER: TEMP-46, CL-0, PH-7 RIG CIRCULATED 1 HOUR 500 GPM 120 PSI
Event	11	Start Job	12/21/17	00:15:45	USER	8.37	0.00	0.00	0.0	TD-1141', TP-1131', SJ-45', OH-13.5" CSG-9.625" 32.3# H40, MUD-9.4PPG
Event	12	Prime Pumps	12/21/17	00:16:22	COM5	8.38	1.80	61.00	3.0	FRESH WATER
Event	13	Test Lines	12/21/17	00:20:39	COM5	8.38	0.00	3066.00	2.4	ALL PRESSURE HELD

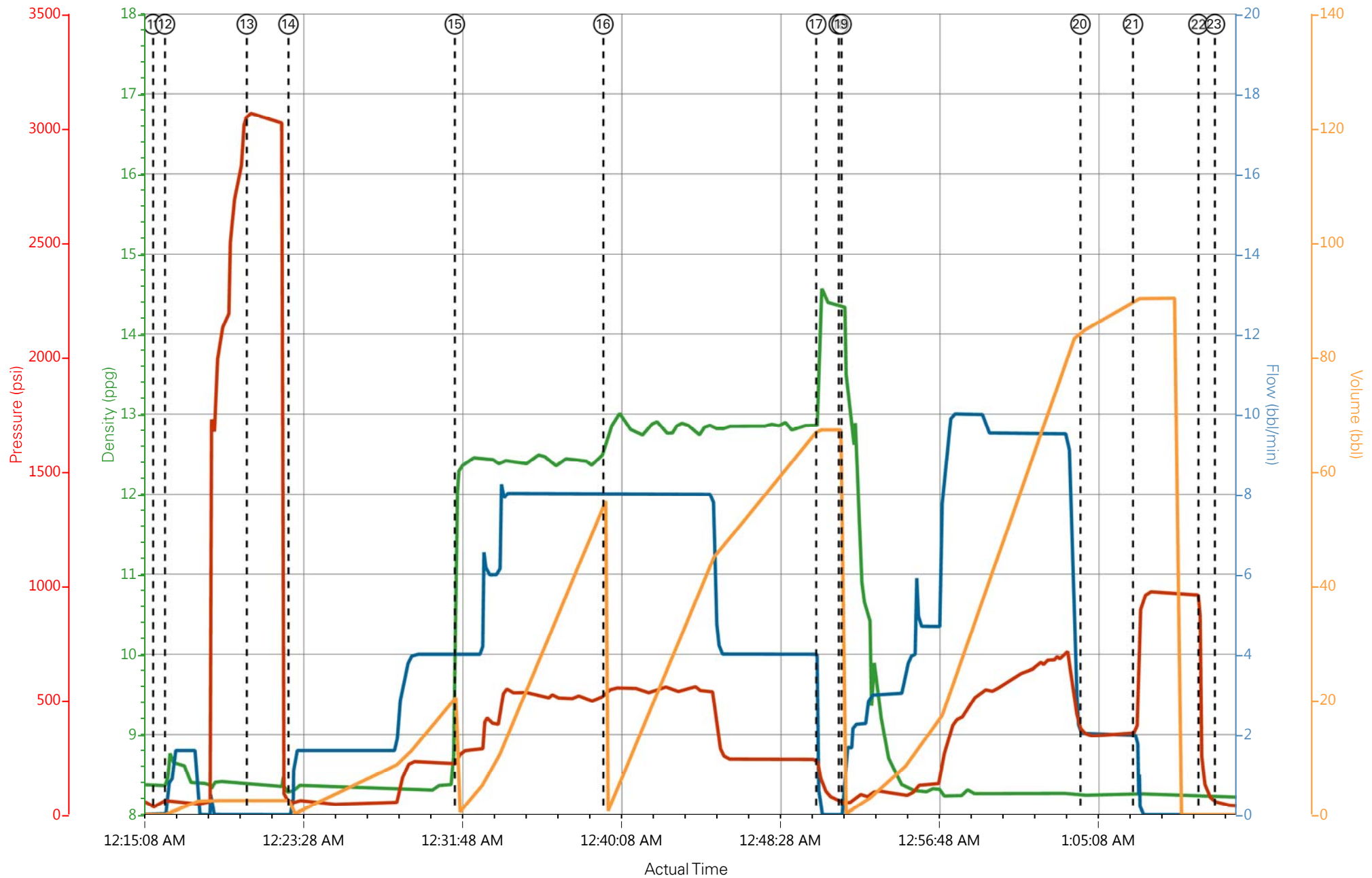
Event	14	Pump Spacer 1	12/21/17	00:22:50	COM5	8.29	4.00	230.00	20.0	FRESH WATER
Event	15	Pump Lead Cement	12/21/17	00:31:33	COM5	12.30	8.00	556.00	53.0	VARICEM, 125SKS, 12.3PPG, 2.38CF/SK, 13.77GAL/SK
Event	16	Pump Tail Cement	12/21/17	00:39:20	COM5	12.80	8.00	539.00	65.8	VARICEM, 175SKS, 12.8PPG, 2.11CF/SK, 11.78GAL/SK
Event	17	Shutdown	12/21/17	00:50:29	USER					END OF CEMENT
Event	18	Drop Top Plug	12/21/17	00:51:40	COM5					PLUG AWAY
Event	19	Pump Displacement	12/21/17	00:51:49	COM5	8.35	9.50	49.00	85.8	FRESH WATER
Event	20	Slow Rate	12/21/17	01:04:20	USER	8.34	2.00	359.00	75.8	SLOW RATE LAST 10 BBLs
Event	21	Bump Plug	12/21/17	01:07:05	COM5	8.34	2.00	354.00	85.8	FINAL CIRCULATING PRESSURE 354PSI
Event	22	Check Floats	12/21/17	01:10:25	USER	8.23	0.00	951.00	0.0	FLOATS HELD, 1/2 BBL BACK
Event	23	End Job	12/21/17	01:11:23	COM5	8.22	0.00	9.00	0.0	GOOD RETURNS THROUGH OUT JOB, 20 BBLs CEMENT TO SURFACE
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	12/21/17	01:15:00	USER					ALL HES PRESENT
Event	25	Rig-Down Completed	12/21/17	02:00:00	USER					
Event	26	Pre-Convoy Safety Meeting	12/21/17	02:15:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	12/21/17	02:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

TEP - SR 513-12 - 9.625" SURFACE



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

TEP - SR 513-12 - 9.625" SURFACE



DH Density (ppg) 8.21 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 31 Pump Stg Tot (bbl) 0