

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Terra**

Date: Sunday, October 22, 2017

**SR 323-12 Surface PJR**

API #: 05-045-23452

Sincerely,

**Grand Junction Engineering Team**

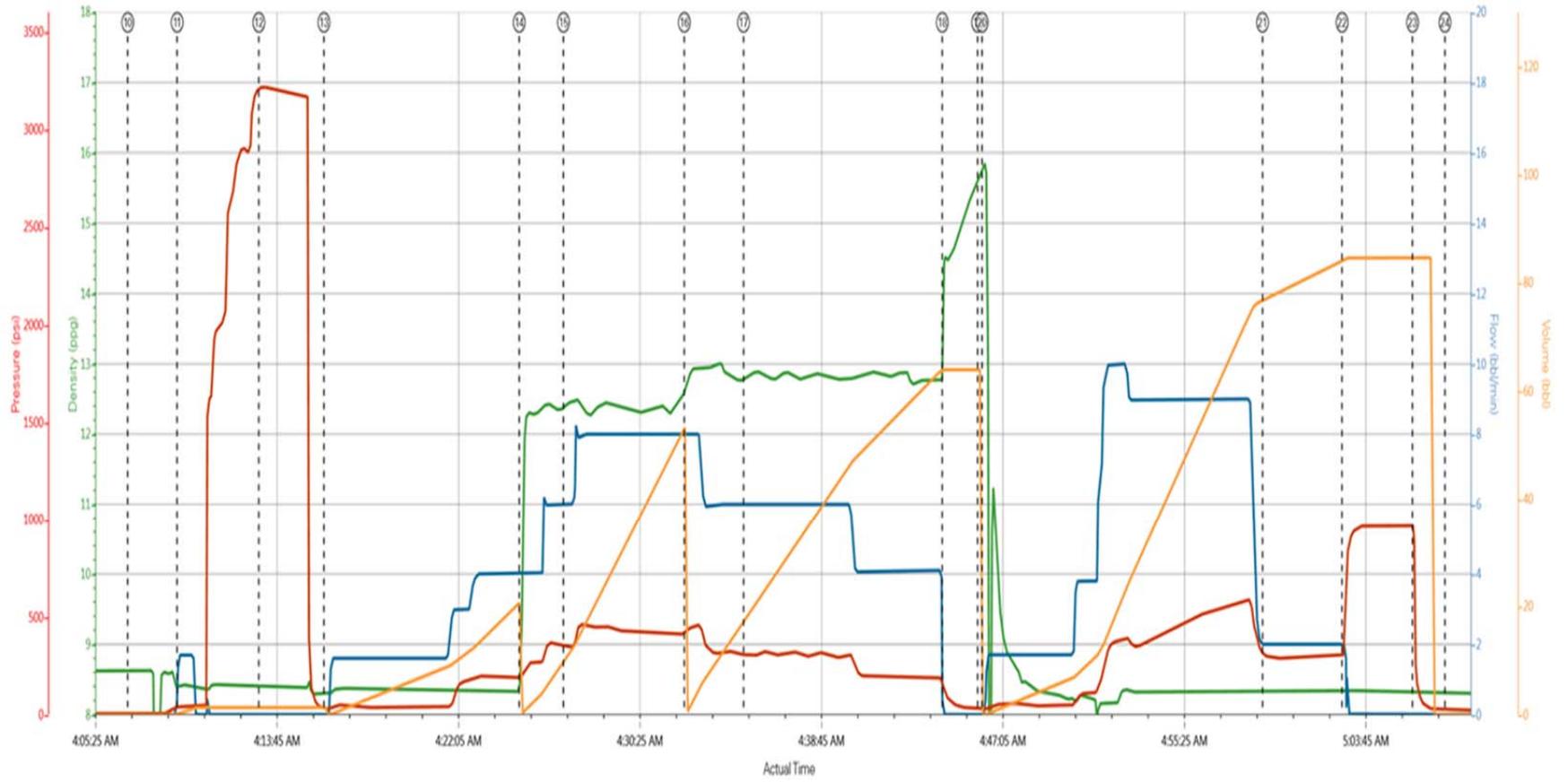
## 2.0 Real-Time Job Summary

### 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	10/21/2017	17:30:00	USER					ON LOCATION REQUESTED 10/22/17 01:00
Event	2	Pre-Convoy Safety Meeting	10/21/2017	19:30:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	10/21/2017	19:45:00	USER					
Event	4	Arrive at Location from Service Center	10/21/2017	21:35:00	USER					RIG HAD NOT STARTED CASING
Event	5	Assessment Of Location Safety Meeting	10/21/2017	21:40:00	USER					MET WITH COMPANY REP DISCUSSED JOB PROCEDURE, SDS OFFERED
Event	6	Pre-Rig Up Safety Meeting	10/21/2017	23:55:06	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	10/22/2017	01:00:00	USER					1-ELITE, 1-660 BULK TRAILER, 9.625" QL, 2" PUMP IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	10/22/2017	03:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Other	10/22/2017	04:00:00	USER					RIG CIRCULATED 1 HOUR, 710 GPM, 250 PSI.
Event	10	Start Job	10/22/2017	04:07:00	COM5	8.34	0.00	7.00	0.0	TP-1131.77', SJ-41.52', CSG-9.625" 32.3# H40, OH-13.5", MUD-9.3PPG
Event	11	Prime Pumps	10/22/2017	04:09:16	COM5	8.41	1.70	40.00	3.0	FRESH WATER
Event	12	Test Lines	10/22/2017	04:13:01	COM5	8.40	0.00	3215.00	0.3	ALL PRESSURE HELD

Event	13	Pump Spacer 1	10/22/2017	04:16:00	COM5	8.30	4.00	200.00	20.0	FRESH WATER
Event	14	Pump Lead Cement	10/22/2017	04:24:58	COM5	12.30	8.00	460.00	53.0	VARICEM LEAD 125SKS, 12.3PPG, 2.38CF/SK, 13.77CF/SK
Event	15	Check weight	10/22/2017	04:27:00	COM5					WEIGHT VERIFIED BY PRESSURIZED MUD SCALES
Event	16	Pump Tail Cement	10/22/2017	04:32:33	COM5	12.80	8.00	430.00	65.8	VARICEM TAIL 175SKS, 12.8PPG, 2.11CF/SK, 11.78GAL/SK
Event	17	Check weight	10/22/2017	04:35:16	COM5					WEIGHT VERIFIED BY PRESSURIZED MUD SCALES
Event	18	Shutdown	10/22/2017	04:44:24	USER					END OF CEMENT. WASH PUMPS AND LINES ON TOP OF PLUG
Event	19	Drop Top Plug	10/22/2017	04:46:01	COM5					PLUG AWAY VERIFIED BY COMPANY REP
Event	20	Pump Displacement	10/22/2017	04:46:14	COM5	8.34	9.00	600.00	85.8	FRESH WATER
Event	21	Slow Rate	10/22/2017	04:59:06	USER	8.32	2.00	290.00	75.0	SLOW RATE LAST 10 BBLS
Event	22	Bump Plug	10/22/2017	05:02:45	COM5	8.33	2.00	303.00	85.8	PLUG BUMPED 303 PSI
Event	23	Check Floats	10/22/2017	05:06:00	USER	8.33	0.00	968.00	85.8	FLOATS HELD, .5 BBL BACK
Event	24	End Job	10/22/2017	05:07:29	COM5	8.31	0.00	23.00	0.0	GOOD RETURNS THROUGH OUT JOB, 23 BBLS CEMENT TO SURFACE
Event	25	Post-Job Safety Meeting (Pre Rig-Down)	10/22/2017	05:10:00	USER					ALL HES PRESENT
Event	26	Rig-Down Completed	10/22/2017	05:45:00	USER					
Event	27	Pre-Convoy Safety Meeting	10/22/2017	06:00:00	USER					ALL HES PRESENT
Event	28	Crew Leave Location	10/22/2017	06:15:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

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

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

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