

# HALLIBURTON

iCem<sup>®</sup> Service

## **Terra Energy Partners**

**For: Terra**

Date: Tuesday, September 19, 2017

**SR 422-12 Surface PJR**

API#: 05-045-23430-00

Sincerely,

**Grand Junction Cement Engineering**

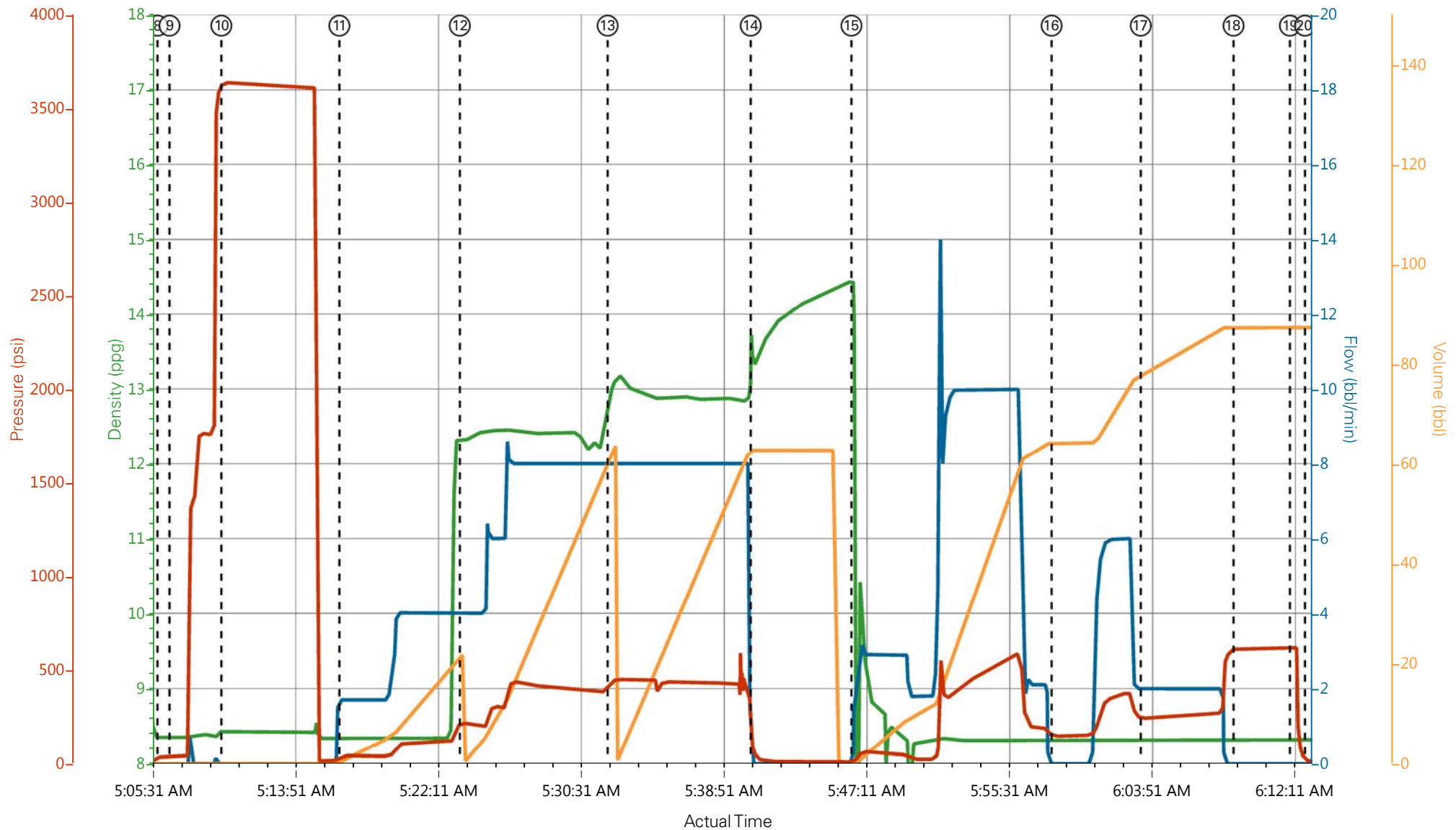
## 1.0 Real-Time Job Summary

## 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	9/18/2017	21:00:00	USER					REQUESTED ON LOCATION @ 300
Event	2	Pre-Convoy Safety Meeting	9/19/2017	02:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	9/19/2017	02:30:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive At Loc	9/19/2017	02:45:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	9/19/2017	02:55:00	USER					MET WITH COMP REP AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 100, TEMP- 61F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	9/19/2017	03:00:00	USER					ALL HES PRESENT
Event	7	Pre-Job Safety Meeting	9/19/2017	04:55:22	USER					ALL HES AND RIG CREW PRESENT
Event	8	Start Job	9/19/2017	05:06:00	COM6					TD 1125', TP 1118.79', SJ 46.58', OH 13.5'', CSG 9.625'' 32.3#, MUD 9.6 PPG. RIG CIRCULATED WELL FOR APPROX 1 HRS.
Event	9	Prime Pumps	9/19/2017	05:06:42	COM6	38.00	8.36	1.00	2.0	8.33 PPG FRESH WATER
Event	10	Test Lines	9/19/2017	05:09:43	COM6	3637.00	8.33	0.50	0.5	ALL LINES HELD PRESSURE AT 3637 PSI

Event	11	Pump Spacer 1	9/19/2017	05:16:36	COM6	136.00	8.36	4.00	20.5	8.33 PPG FRESH WATER (20 BBL)
Event	12	Pump Lead Cement	9/19/2017	05:23:38	COM6	420.00	12.30	8.00	53.0	VARICEM CEMENT 125 SKS (53 BBLs), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	13	Pump Tail Cement	9/19/2017	05:32:16	COM6	422.00	12.85	8.00	66.5	VARICEM CEMENT 175 SKS (66 BBLs), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	14	Shutdown	9/19/2017	05:40:37	USER					END OF CEMENT, WASH UP ON TOP OF PLUG
Event	15	Pump Displacement	9/19/2017	05:46:30	COM6	242.00	8.39	10.00	74.2	8.34 PPG FRESH WATER (84.4 BBLs)
Event	16	Shutdown	9/19/2017	05:58:10	USER	147.00	8.31	0.00		SHUTDOWN FOR RIGS CELLAR PUMP
Event	17	Slow Rate	9/19/2017	06:03:23	USER	242.00	8.32	2.00	10.0	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	18	Bump Plug	9/19/2017	06:08:47	USER	612.00	8.33	2.00	84.5	LAND PLUG AT 233 PSI, BROUGHT UP TO 878 PSI
Event	19	Check Floats	9/19/2017	06:12:05	USER					FLOATS HELD, 1 BBL BACK TO TRUCK
Event	20	End Job	9/19/2017	06:12:58	USER					RETURNS THROUGHOUT JOB, 15 BBL OF CEMENT BACK TO SURFACE
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	9/19/2017	06:15:32	USER					ALL HES PRESENT
Event	22	Pre-Convoy Safety Meeting	9/19/2017	06:27:23	USER					ALL HES PRESENT
Event	23	Crew Leave Location	9/19/2017	06:28:16	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

# TEP - SR 422-12 - 9.625" SURFACE



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

- ① Call Out n/a;n/a;n/a;n/a
- ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
- ③ Crew Leave Yard n/a;n/a;n/a;n/a
- ④ Arrive At Loc n/a;n/a;n/a;n/a
- ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a
- ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a
- ⑦ Pre-Job Safety Meeting 8.33;0;11;0
- ⑧ Start Job 8.35;0;37;0
- ⑨ Prime Pumps 8.36;0;37;0
- ⑩ Test Lines 8.43;0;3637;0

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Edit

Customer : TERRA ENERGY LTD.  
Representative : B.BROWN

Job Date : 9/19/2017  
Sales Order # : 904310769

Well : SR 422-12  
ELITE 8 : C.SMITH/ D.PORTER

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