

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

Date: Thursday, April 19, 2018

### **PA 32-26**

API# 05-045-23728-00  
Terra PA 32-26 Surface  
Job Date: Monday, April 16, 2018

Sincerely,

**Grand Junction Cement Engineering**

## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	4/16/2018	10:00:00	USER					REQUESTED ON LOCATION @ 1400
Event	2	Pre-Convoy Safety Meeting	4/16/2018	11:30:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	4/16/2018	11:35:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive at Location from Service Center	4/16/2018	13:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	4/16/2018	13:10:00	USER					MET WITH COMP REP AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 71F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	4/16/2018	14:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	4/16/2018	15:00:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	4/16/2018	15:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	4/16/2018	15:48:37	COM3					TD 1134', TP 1127', SJ 44.5', OH 13.5", CSG 9.625" 36#, MUD 9.5 PPG.
Event	10	Prime Pumps	4/16/2018	15:49:18	USER	36.00	8.33	1.00	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	4/16/2018	15:52:41	COM3	3120.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 3123 PSI
Event	12	Pump Spacer 1	4/16/2018	15:56:05	COM3	125.00	8.33	2.00	10.0	8.33 PPG FRESH WATER (20 BBL)

Event	13	Pump Lead Cement	4/16/2018	16:03:32	COM3	530.00	12.31	8.00	53.0	VARICEM CEMENT 125 SKS (523 BBLs), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Pump Tail Cement	4/16/2018	16:10:56	COM3	561.00	12.79	8.00	66.0	VARICEM CEMENT 175 SKS (66 BBLs), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	15	Shutdown	4/16/2018	16:19:45	USER					END OF CMT
Event	16	Drop Top Plug	4/16/2018	16:22:05	COM3					PLUG WENT, VERIFIED BY CO REP
Event	17	Pump Displacement	4/16/2018	16:22:30	COM3	782.00	8.33	10.00	73.7	8.34 PPG FRESH WATER (83.7 BBLs)
Event	18	Slow Rate	4/16/2018	16:33:39	USER	301.00	8.33	2.00	10.0	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	19	Bump Plug	4/16/2018	16:38:02	USER	1023.00	8.33	2.00	83.70	LAND PLUG AT 300 PSI, BROUGHT UP TO 1032 PSI FOR A 10 MIN CSG TEST.
Event	20	Check Floats	4/16/2018	16:40:09	USER	1048.00	8.33	0.00	0.00	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	21	End Job	4/16/2018	16:42:00	COM3					RETURNS THROUGHOUT JOB, 15 BBL OF CEMENT BACK TO SURFACE
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	4/16/2018	17:15:00	USER					ALL HES PRESENT
Event	23	Rig-Down Completed	4/16/2018	17:30:00	USER					ALL HES PRESENT
Event	24	Pre-Convoy Safety Meeting	4/16/2018	17:45:00	USER					ALL HES PRESENT
Event	25	Crew Leave Location	4/16/2018	17:50:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

# TERRA - PA 32-26 - 9.625" SURFACE

