

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Terra**

Date: Saturday, May 12, 2018

**RU 514-17 Surface PJR**

**API #: 05-045-23733**

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 (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	5/12/2018	11:30:00	USER					REQUESTED ON LOCATION @ 0400
Event	2	Pre-Convoy Safety Meeting	5/12/2018	12:30:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	5/12/2018	12:45:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive at Location from Service Center	5/12/2018	15:30:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	5/12/2018	16:00:00	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	5/12/2018	16:10:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	5/12/2018	17:00:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	5/12/2018	19:00:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	5/12/2018	19:50:20	COM3					TD 1145', TP 1140.18', SJ 48.06', OH 13.5'', CSG 9.625'' 32.3#, MUD 9.1 PPG. RIG CIRCULATED WELL FOR APPROX 1 HR.

Event	10	Prime Pumps	5/12/2018	19:50:53	COM3	22.00	8.33	1.00	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	5/12/2018	19:54:39	COM3	4002.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 4001 PSI
Event	12	Pump Spacer 1	5/12/2018	20:02:57	COM3	124.00	8.33	4.00	20.00	8.33 PPG FRESH WATER (20 BBL)
Event	13	Pump Lead Cement	5/12/2018	20:09:31	COM3	503.00	12.30	8.00	53.00	VARICEM CEMENT 125 SKS (53 BBLS), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check Weight	5/12/2018	20:11:07	COM3					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Tail Cement	5/12/2018	20:17:15	COM3	533.00	12.80	8.00	66.00	VARICEM CEMENT 175 SKS (66 BBLS), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	16	Check Weight	5/12/2018	20:19:04	COM3					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	5/12/2018	20:26:10	USER					END OF CMT
Event	18	Drop Top Plug	5/12/2018	20:28:51	USER					PLUG WENT, VERIFIED BY CO REP
Event	19	Pump Displacement	5/12/2018	20:29:32	COM3	754.00	8.33	10.00	76.00	8.34 PPG FRESH WATER (86 BBLS)
Event	20	Slow Rate	5/12/2018	20:41:24	USER	280.00	8.33	2.00	10.00	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	21	Bump Plug	5/12/2018	20:46:17	USER	808.00	8.33	2.00	86.00	LAND PLUG AT 750 PSI, BROUGHT UP TO 800 PSI.
Event	22	Check Floats	5/12/2018	20:49:32	USER	808.00	8.33	0.00	86.00	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	23	End Job	5/12/2018	20:50:11	USER					RETURNS THROUGHOUT JOB, 31 BBL OF CEMENT BACK TO SURFACE
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	5/12/2018	20:53:05	USER					ALL HES PRESENT

Event	25	Rig-Down Completed	5/12/2018	21:30:00	USER	ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	5/12/2018	21:45:00	USER	ALL HES PRESENT
Event	27	Crew Leave Location	5/12/2018	21:50:00	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

# TEP - RU 514-17 - 9.625" SURFACE

