

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Saturday, April 21, 2018

RU 513-17 Surface PJR

API #: 05-045-23734

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	4/21/2018	09:00:00	USER					REQUESTED ON LOCATION @ 1500
Event	2	Pre-Convoy Safety Meeting	4/21/2018	11:15:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	4/21/2018	11:30:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive at Location from Service Center	4/21/2018	13:30:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	4/21/2018	13:45:00	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	4/21/2018	14:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Completed	4/21/2018	14:50:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Prime Pumps	4/21/2018	15:25:00	USER					8.33 PPG FRESH WATER
Event	9	Pre-Job Safety Meeting	4/21/2018	15:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	10	Start Job	4/21/2018	15:42:30	COM3					TD 1138', TP 1131', SJ 42', OH 13.5", CSG 9.625" 32.3#, MUD 9.5 PPG. RIG

										CIRCULATED WELL ONE HOLE VOLUME.
Event	11	Prime Pumps	4/21/2018	15:43:09	COM3	23.00	8.33	1.00	2.00	8.33 PPG FRESH WATER
Event	12	Test Lines	4/21/2018	15:45:34	COM3	3317.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 3317 PSI
Event	13	Pump Spacer 1	4/21/2018	15:48:31	COM3	120.00	8.33	2.00	20.00	8.33 PPG FRESH WATER (20 BBL)
Event	14	Pump Lead Cement	4/21/2018	15:55:44	COM3	568.00	12.26	8.00	53.00	VARICEM CEMENT 125 SKS (53 BBLs), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	15	Pump Tail Cement	4/21/2018	16:03:01	COM3	587.00	12.79	8.00	66.0	VARICEM CEMENT 175 SKS (66 BBLs), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	16	Shutdown	4/21/2018	16:14:22	USER					END OF CMT
Event	17	Drop Top Plug	4/21/2018	16:16:20	USER					PLUG WENT, VERIFIED BY CO REP
Event	18	Pump Displacement	4/21/2018	16:17:20	COM3	800.00	8.32	10.00	65.70	8.34 PPG FRESH WATER (85.7 BBLs)
Event	19	Slow Rate	4/21/2018	16:27:03	USER	209.00	8.33	4.00	20.00	SLOW RATE TO 2 PER CO REP TO LAND PLUG
Event	20	Bump Plug	4/21/2018	16:37:10	USER	800.00	8.33	4.00	85.70	LAND PLUG AT 252 PSI, BROUGHT UP TO 800 PSI
Event	21	Check Floats	4/21/2018	16:40:08	USER	800.00	8.33	0.00	85.70	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	22	End Job	4/21/2018	16:40:56	USER					RETURNS THROUGHOUT JOB, 25 BBL OF CEMENT BACK TO SURFACE
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	4/21/2018	16:55:00	USER					ALL HES PRESENT
Event	24	Rig-Down Completed	4/21/2018	17:15:00	USER					ALL HES PRESENT
Event	25	Pre-Convoy Safety	4/21/2018	17:25:00	USER					ALL HES PRESENT

Meeting

Event	26	Crew Leave Location	4/21/2018	17:30:00	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW
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TEP - RU 513-17 - 9.625" SURFACE

