

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America

For: Lynn Cass & Abe Alexander

Date: Friday, January 13, 2017

RU 24-7 Surface PJR

API# 05-045-23261-00

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	1/13/2017	18:30:00	USER					REQUESTED ON LOCATION @ 2330
Event	2	Crew Leave Yard	1/13/2017	19:00:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK.
Event	3	Arrive At Location	1/13/2017	21:00:00	USER					RIG CIRCULATING ON BOTTOM
Event	4	Assessment Of Location	1/13/2017	21:15:00	USER					MET WITH COMP REP, BRANDON HAIRE, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 65F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	5	Pre Rig Up Safety Meeting	1/13/2017	21:30:00	USER					ALL HES PRESENT
Event	6	Rig Up Equipment	1/13/2017	21:30:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	7	Start Job	1/13/2017	00:38:00	COM6					TD 1150', TP 1140', SJ 47', OH 13.5", CSG 9.625" 32.3#, MUD 9 PPG. RIG CIRCULATED WELL @ APPROX 16 BPM WITH 302 PSI FOR APPROX 45 MIN.
Event	8	Prime Pumps	1/13/2017	00:38:45	COM6					8.33 PPG FRESH WATER
Event	9	Test Lines	1/13/2017	00:44:39	COM6	8.66	0.00	2830.00	0.00	ALL LINES HELD PRESSURE AT 2830 PSI
Event	10	Pump Spacer 1	1/13/2017	00:50:30	COM6	8.54	0.00	17.00	0.00	8.33 PPG FRESH WATER (20BBL)
Event	11	Check Weight	1/13/2017	00:51:39	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	12	Pump Lead Cement	1/13/2017	00:57:56	COM6	12.26	4.10	218.00	1.40	VARICEM CEMENT 130 SKS (55 BBLS), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK

Event	13	Pump Tail Cement	1/13/2017	01:06:34	COM6	12.99	8.00	451.00	5.90	VARICEM CEMENT 175 SKS (66 BBLS), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	14	Check Weight	1/13/2017	01:07:20	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Shutdown	1/13/2017	01:15:20	USER					END OF CEMENT
Event	16	Drop Top Plug	1/13/2017	01:17:13	USER					PLUG WENT, VERIFIED BY CO REP
Event	17	Pump Displacement	1/13/2017	01:17:45	COM6					8.34 PPG FRESH WATER (86 BBLS)
Event	18	Slow Rate	1/13/2017	01:27:54	COM6					SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	19	Bump Plug	1/13/2017	01:33:01	COM6	8.36	0.00	926.00	90.90	LAND PLUG AT 275 PSI, BROUGHT UP TO 944 PSI
Event	20	Check Floats	1/13/2017	01:33:14	COM6	8.35	0.00	944.00	90.90	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	21	End Job	1/13/2017	01:34:00	USER					RETURNS THROUGHOUT JOB, PIPE WAS NOT RECIPROCATED DURING THE JOB, 15 BBL OF CEMENT BACK TO SURFACE
Event	22	Pre Job Safety Meeting	1/13/2017	01:40:00	USER					ALL HES PRESENT
Event	23	Rig Down Equipment	1/13/2017	01:55:00	USER					ALL HES PRESENT
Event	24	Pre Convoy Safety Meeting	1/13/2017	03:00:00	USER					ALL HES PRESENT
Event	25	Crew Leave Location	1/13/2017	03:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

TEP - YOUNBERG RU 24-7 - 9.625" SURFACE

