

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Terra**

Date: Friday, July 26, 2019

**RWF 513-8 Production**

API# 05-045-24032

Sincerely,  
Grand Junction Cement Engineering

## 2.0 Real-Time Job Summary

## 2.1 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	7/26/2019	00:01:00	USER					REQUESTED ON LOCATION @ 0600
Event	2	Pre-Convoy Safety Meeting	7/26/2019	03:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	7/26/2019	03:30:00	USER					1 F550, 1 PUMP TRUCK, 1 660 BULK TURCK & 1 TRANSPORT
Event	4	Arrive at Location from Service Center	7/26/2019	04:30:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	7/26/2019	04:45:00	USER					MET WITH COMP REP, , AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 68F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Safety Meeting - Pre Rig-Up	7/26/2019	04:50:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	7/26/2019	04:55:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	7/26/2019	08:00:00	USER					ALL HES PRESENT, TALKED ABOUT CSG SITTING WITH IN 10' OF BOTTOM.
Event	9	Start Job	7/26/2019	09:54:30	COM2					TD 9355', TP 9358', SJ 30.68', OH 8.75'', CSG 4.5'' 11.6#, MUD 13.8 PPG. RIG CIRCULATED WELL @ 10 BPM WITH 100 PSI WITH 400 GAS UNITS.
Event	10	Prime Pumps	7/26/2019	09:55:15	USER	233.00	8.33	1.80	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	7/26/2019	10:00:03	COM2	5148.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 5148 PSI
Event	12	Pump Spacer 1	7/26/2019	10:03:52	COM2	1000.00	13.80	8.00	40.00	TUNED SPACER III (40 BBL), 13.8 PPG, 1.99 FT3/SK, 11.6 GAL/SK

Event	13	Check Weight	7/26/2019	10:07:25	COM2					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	14	Pump Cement	7/26/2019	10:15:24	COM2	1594.00	14.20	8.00	613.00	NEOCER CEMENT 1990 SKS (613 BBLS), 14.2 PPG, 1.73 FT3/SK, 7.78 GAL/SK
Event	15	Check Weight	7/26/2019	10:17:30	COM2					
Event	16	Check Floats	7/26/2019	10:35:01	USER					FLOATS HELD, 2 BBL BACK TO TRUCK
Event	17	Check Weight	7/26/2019	10:51:57	COM2					
Event	18	Shutdown	7/26/2019	11:42:19	USER					END OF CMT
Event	19	Drop Top Plug	7/26/2019	11:44:01	USER					PLUG WENT, VERIFIED BY CO REP.
Event	20	Clean Lines	7/26/2019	11:44:44	USER					WASH UP PUMPS AND LINES IN THE CELLAR
Event	21	Pump Displacement	7/26/2019	11:51:59	COM2	3150.00	8.33	10.00	134.60	8.34 PPG FRESH WATER (144.6 BBLS) 3 BAGS BE6, 1 GAL MMCR & 14 SKS KCL
Event	22	Slow Rate	7/26/2019	12:08:24	USER	2990.00	8.13	4.40	10.00	SLOW RATE TO 4 BPM PER CO REP TO LAND PLUG
Event	23	Bump Plug	7/26/2019	12:11:11	USER	3650.00	8.34	0.00	144.60	LAND PLUG AT 1000 PSI, BROUGHT UP TO 2000 PSI
Event	24	End Job	7/26/2019	12:14:31	COM2					GOOD RETURNS THROUGHOUT, PIPE WAS RECIPROCATED, 100 BBL OF CEMENT TO SURFACE, 100# OF SUGAR, 1 GL MMCR AND 3# OF BE6 USED.
Event	25	Post-Job Safety Meeting (Pre Rig-Down)	7/26/2019	12:16:30	USER					ALL HES PRESENT
Event	26	Rig-Down Equipment	7/26/2019	12:17:21	USER					ALL HES PRESENT
Event	27	Pre-Convoy Safety Meeting	7/26/2019	13:07:13	USER					ALL HES PRESENT
Event	28	Crew Leave Location	7/26/2019	13:09:02	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

3.0 Attachments

3.1 CHART.png

