

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: EP**

Date: Wednesday, May 22, 2019

**RWF 412-17 Surface**

API# 05-045-24028-00

Job Date: Wednesday, May 22, 2019

Sincerely,

**Grand Junction Cement Engineering**

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	5/21/2019	18:00:00	USER					REQUESTED ON LOCATION @ 00:00
Event	2	Pre-Convoy Safety Meeting	5/21/2019	20:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	5/21/2019	20:10:00	USER					1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	5/21/2019	22:00:00	USER					RIG PULLING DRILL PIPE WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	5/21/2019	22:10:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH-7.0, CHLORIDES-500, TEMP-50F). COMP REP WAS OFFERED SDS FOR ALL CHEMICALS USED BY HES. CALIBRATED MUD SCALES ON WATER.
Event	6	Pre-Rig Up Safety Meeting	5/21/2019	22:20:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	5/21/2019	22:25:00	USER					HES RIGGED UP 1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	5/22/2019	03:30:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT. RIG CIRCULATED @ 10 BPM PRIOR TO JOB. PRESSURE WAS 42 PSI.
Event	9	Start Job	5/22/2019	03:42:47	COM4					TD 1137', TP 1130.5' OF 9 5/8" 36# SURFACE CSG, FC @ 1084.7', OH 13.5", MUD 9.4 PPG
Event	10	Prime Lines	5/22/2019	03:43:28	USER	8.33	2	70	2	FRESH WATER
Event	11	Test Lines	5/22/2019	03:44:22	COM4			3540		ALL LINES HELD PRESSURE AT 3540 PSI

Event	12	Pump H2O Spacer	5/22/2019	03:48:53	COM4	8.33	4	140	20	20BBLs FRESH WATER
Event	13	Pump Lead Cement	5/22/2019	03:56:50	COM4	12.3	8	530	53	125 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check Weight	5/22/2019	03:58:01	COM4					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Tail Cement	5/22/2019	04:04:41	COM4	12.8	8	570	66	175 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Check Weight	5/22/2019	04:06:10	COM4					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	5/22/2019	04:13:29	USER					END OF CEMENT, WASH UP ON TOP OF PLUG
Event	18	Drop Top Plug	5/22/2019	04:16:53	COM4					VERIFIED BY FLAG INDICATOR
Event	19	Pump Displacement	5/22/2019	04:16:55	COM4	8.4	10	750	83.9	FRESH WATER
Event	20	Slow Rate	5/22/2019	04:27:32	USER	8.4	2	260	73.9	SLOW RATE TO 2 BPM TO BUMP PLUG
Event	21	Bump Plug	5/22/2019	04:31:45	COM4	8.4	2	275	83.9	LAND PLUG AT 275 PSI, BROUGHT UP TO 835 PSI
Event	22	Check Floats	5/22/2019	04:33:06	USER					FLOATS HELD, .5 BBL BACK TO TRUCK
Event	23	End Job	5/22/2019	04:33:59	COM4					RETURNS THROUGHOUT JOB, 25 BBLs CMT TO SURFACE, NO SUGAR USED.
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	5/22/2019	04:40:00	USER					ALL HES PRESENT
Event	25	Rig-Down Equipment	5/22/2019	04:45:00	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	5/22/2019	05:45:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	5/22/2019	06:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW.

## 3.0 Attachments

### 3.1 CHART.png

