

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: EP**

Date: Tuesday, May 21, 2019

### **RWF 442-18 Production**

API# 05-045-24035-00

Job Date: Tuesday, May 21, 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 (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	5/20/2019	18:00:00	USER					REQUESTED ON LOCATION @ 00:00
Event	2	Pre-Convoy Safety Meeting	5/20/2019	20:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	5/20/2019	20:10:00	USER					1 HT 400 PUMP TRUCK, 1 COMPRESSOR TRAILER, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	5/20/2019	22:30:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	5/20/2019	22:45:00	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-52F). COMP REP WAS OFFERED SDS FOR ALL CHEMICALS USED BY HES. CALIBRATED MUD SCALES ON WATER.
Event	6	Pre-Rig Up Safety Meeting	5/20/2019	23:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	5/20/2019	23:10:00	USER					HES RIGGED UP 1 HT 400 PUMP TRUCK, 2 CEMENT SILOS, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	5/21/2019	02:30:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT. RIG CIRCULATED @ 10 BPM PRIOR TO JOB. PRESSURE WAS 1250PSI. 175 UNITS OF GAS.
Event	9	Start Job	5/21/2019	02:43:28	COM4					TD 9112', TP 9105', SJ 30.5', SURFACE CSG 9 5/8" 36# J55 SET @ 1100' PRODUCTION CSG 4 1/2" 11.6# P-110, OH 8 3/4", MUD 11 PPG
Event	10	Prime Lines	5/21/2019	02:44:24	USER	8.33	2	200	2	FRESH WATER
Event	11	Test Lines	5/21/2019	02:45:33	COM4			4940		ALL LINES HELD PRESSURE AT 4940 PSI

Event	12	Pump H2O Spacer	5/21/2019	02:50:00	COM4	8.33	3	310	10	10BBLS FRESH WATER
Event	13	Mud Flush	5/21/2019	02:55:52	COM4	8.4	4	570	20	20BBLS MUD FLUSH
Event	14	Pump Cement	5/21/2019	03:01:11	COM4	14.2	7	850	354.3	1150 SKS THERMACEM CMT 14.2 PPG, 1.73 FT3/SK, 7.78 GAL/SK
Event	15	Check Weight	5/21/2019	03:04:02	COM4	14.2				WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	16	Slow Rate	5/21/2019	03:53:03	USER					SLOWED RATE TO END CEMENT SILO
Event	17	Clean Lines	5/21/2019	03:59:10	COM4					END OF CEMENT. CLEAN PUMPS AND LINES TO PIT.
Event	18	Drop Top Plug	5/21/2019	04:04:22	COM4					VERIFIED BY FLAG INDICATOR
Event	19	Pump Displacement	5/21/2019	04:04:32	COM4	8.4	10	2800	140.7	1 GAL MMCR IN FIRST 10 BBLS, 3 LBS BE-6 IN FIRST 30 BBLS, 1 50 LB. BAG KCL THROUGHOUT DISPLACEMENT
Event	20	Slow Rate	5/21/2019	04:20:21	USER	8.4	4	2100	130.7	SLOW RATE TO 4 BPM TO BUMP PLUG
Event	21	Bump Plug	5/21/2019	04:22:54	COM4	8.4	4	2250	140.7	LANDED PLUG AT 2250 PSI, BROUGHT UP TO 3190 PSI
Event	22	Check Floats	5/21/2019	04:24:07	USER					FLOATS HELD, 2BBLS BACK TO TRUCK
Event	23	End Job	5/21/2019	04:25:57	COM4					HAD GOOD RETURNS THROUGHOUT JOB. PIPE WAS RECIPRICATED. NO SUGAR USED.
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	5/21/2019	04:30:00	USER					ALL HES PRESENT
Event	25	Rig-Down Equipment	5/21/2019	04:35:00	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	5/21/2019	05:30:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	5/21/2019	05:45:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW

