

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Thursday, August 01, 2019

RWF 443-7 Production

API# 05-045-24036-00

Job Date: Thursday, August 01, 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	7/31/2019	16:00:00	USER					REQUESTED ON LOCATION @ 21:00
Event	2	Pre-Convoy Safety Meeting	7/31/2019	18:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	7/31/2019	18:05:00	USER					1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	7/31/2019	20:00:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	7/31/2019	20:10:00	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-72F). COMP REP WAS OFFERED SDS FOR ALL CHEMICALS USED BY HES. CALIBRATED MUD SCALES ON WATER.
Event	6	Pre-Rig Up Safety Meeting	7/31/2019	20:15:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	7/31/2019	20:20:00	USER					HES RIGGED UP 1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 2 CEMENT SILOS, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	7/31/2019	23:30:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT. RIG CIRCULATED @ 10 BPM PRIOR TO JOB. PRESSURE WAS 800PSI.
Event	9	Start Job	8/1/2019	03:03:46	COM4					TD 9697', TP 9691.48', SJ 29.94', SURFACE CSG 9 5/8" 36# J55 SET @ 1104' PRODUCTION CSG 4 1/2" 11.6# P-110, OH 8 3/4", MUD 13.5 PPG
Event	10	Prime Lines	8/1/2019	03:03:50	USER	8.33	2	440	2	FRESH WATER
Event	11	Test Lines	8/1/2019	03:03:53	COM4			6100		HELD 6100PSI

Event	12	Check Weight	8/1/2019	03:15:39	USER					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	13	Pump Tuned Spacer	8/1/2019	03:16:30	COM4	13.8	8	1376	40	40 BBL TUNED SPACER 13.8PPG, 1.99 FT3/SK, 11.6 GAL/SK
Event	14	Pump Cement	8/1/2019	03:22:21	COM4	14.2	8	1600	541	1755 SKS THERMACEM CMT 14.2PPG, 1.73 FT3/SK, 7.77 GAL/SK.
Event	15	Check Weight	8/1/2019	03:31:48	USER					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	16	Shutdown	8/1/2019	04:41:40	USER					END OF CEMENT. CLEAN PUMPS AND LINES TO PIT.
Event	17	Pump Displacement	8/1/2019	04:50:42	COM4	8.4	10	3270	149.8	1 GAL MMCR IN FIRST 10 BBLS, 3 LBS BE-6 IN FIRST 30 BBLS, 1 50 LB. BAG KCL THROUGHOUT DISPLACEMENT
Event	18	Drop Top Plug	8/1/2019	04:51:13	USER					VERIFIED BY FLAG INDICATOR
Event	19	Slow Rate	8/1/2019	05:06:33	USER	8.4	4	2830	139.8	SLOW RATE TO 4 BPM TO BUMP PLUG
Event	20	Bump Plug	8/1/2019	05:10:19	COM4	8.4	4	3000	149.8	LANDED PLUG AT 3000 PSI, BROUGHT UP TO 3600 PSI
Event	21	Check Floats	8/1/2019	05:13:26	USER					2BBLS BACK TO TRUCK, FLOATS HELD
Event	22	End Job	8/1/2019	05:14:27	COM4					HAD GOOD RETURNS THROUGHOUT JOB. PIPE WAS RECIPRICATED. NO SUGAR USED. NO CEMENT TO SURFACE.
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	8/1/2019	21:04:52	USER					ALL HES PRESENT
Event	24	Rig-Down Equipment	8/1/2019	21:04:56	USER					ALL HES PRESENT
Event	25	Pre-Convoy Safety Meeting	8/1/2019	21:05:07	USER					ALL HES PRESENT
Event	26	Crew Leave Location	8/1/2019	21:05:15	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW.

3.0 Attachments

3.1 CHART .png

