

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: EP

Date: Sunday, May 26, 2019

FEDERAL RWF 412-17 Production

GARFIELD, FEDERAL RWF 412-17

API#05-045-24028

Job Date: Sunday, May 26, 2019

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate <i>(bbl/min)</i>	DH Density <i>(ppg)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	5/25/2019	22:00:00	USER					REQUESTED ON LOCATION 5/26/19 @ 04:30
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	5/26/2019	01:55:00	USER					JSA COMPLETED
Event	3	Crew Leave Shop	Crew Leave Shop	5/26/2019	02:00:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	5/26/2019	03:30:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/26/2019	03:45:00	USER					JSA COMPLETED
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/26/2019	03:55:00	USER					JSA COMPLETED
Event	7	Rig-Up Equipment	Rig-Up Equipment	5/26/2019	04:00:00	USER					
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/26/2019	08:00:00	USER					JSA COMPLETED, PRESSURIZED MUD SCALES CALIBRATED TO FRESH WATER
Event	9	Start Job	Start Job	5/26/2019	08:37:45	COM4					4 1/2"-11.6# CASING IN 8 3/4" OH, TD 9051', TP 9045', ST 30.9', MUD 11.1 PPG, WATER TEMP 55, PH 7, CHLORIDES 0
Event	10	Test Lines	Test Lines	5/26/2019	08:46:37	COM4			5000.00		TEST LINES TO 5000 PSI
Event	11	Pump Spacer 1	Pump Spacer 1	5/26/2019	08:51:19	COM4	4.00	8.33	110.00	10.00	10 BBLs FRESH WATER
Event	12	Pump Spacer 2	Pump Spacer 2	5/26/2019	08:54:23	COM4	4.00	8.40	110.00	20.00	PUMP 20 BBLs MUDFLUSH

Event	13	Pump Lead Cement	Pump Lead Cement	5/26/2019	08:59:54	COM4	3.50	12.50	190.00	290.00	290 BBLs LEAD CEMENT, 810 SKS @ 12.5 PPG / 2.01 YLD / 10.32 GAL/SK
Event	14	Pump Tail Cement	Pump Tail Cement	5/26/2019	10:19:29	COM4	8.00	13.30	700.00	207.60	207.6 BBLs TAIL CEMENT, 655 SKS @ 13.3 PPG / 1.78 YLD / 8.39 GAL/SK
Event	15	Drop Top Plug	Drop Top Plug	5/26/2019	11:06:07	COM4					PLUG AWAY
Event	16	Pump Displacement	Pump Displacement	5/26/2019	11:08:21	COM4	10.00	8.40	2620.00	139.70	139.7 BBLs KCL WATER DISPLACEMENT
Event	17	Bump Plug	Bump Plug	5/26/2019	11:25:05	COM4	4.00	8.40	2000.00	139.70	PLUG BUMPED AT CALCULATED, FINAL CIRCULATING PRESSURE 2000 PSI @ 4 BBL/MIN, BROUGHT TO 2800 PSI
Event	18	Other	CHECK FLOATS	5/26/2019	11:26:48	COM4					FLOATS HELD, 1.5 BBLs BACK TO PUMP
Event	19	End Job	End Job	5/26/2019	11:29:00	COM4					PIPE WAS RECIPRICATED, PARTIAL RETURNS THROUGHOUT, NO SPACER OF CEMENT TO SURFACE, 20# OF SUGAR USED
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/26/2019	11:35:00	USER					JSA COMPLETED
Event	21	Rig-Down Equipment	Rig-Down Equipment	5/26/2019	11:40:00	USER					
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/26/2019	12:15:00	USER					JSA COMPLETED
Event	23	Crew Leave Location	Crew Leave Location	5/26/2019	12:20:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, CO - RYAN MARTIN AND CREW

3.0 Attachments

3.1 905711649-Custom Results.png

