

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: Terra

Date: Sunday, June 16, 2019

FEDERAL RWF 511-17 Production

API#05-045-24037

GARFIELD, FEDERAL RWF 511-17

905768095

Job Date: Sunday, June 16, 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 (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	6/15/2019	10:30:00	USER					REQUESTED ON LOCATION 6/16/19 @ 04:30
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	6/16/2019	00:55:00	USER					JSA COMPLETED
Event	3	Crew Leave Shop	Crew Leave Shop	6/16/2019	01:00:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	6/16/2019	02:30:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/16/2019	02:45:00	USER					JSA COMPLETED
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/16/2019	03:45:00	USER					JSA COMPLETED
Event	7	Rig-Up Equipment	Rig-Up Equipment	6/16/2019	03:50:00	USER					
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/16/2019	08:00:00	USER					JSA COMPLETED, PRESSURIZED MUD SCALES CALIBRATED TO FRESH WATER
Event	9	Start Job	Start Job	6/16/2019	08:44:52	COM4					4 1/2"-11.6# CASING IN 8 3/4" OH, TD 8945', TP 8934.8', ST 28.8', MUD WEIGHT 11.6 PPG, WATER TEMP 55, PH 7, CHLORIDES 0
Event	10	Test Lines	Test Lines	6/16/2019	08:52:13	COM4			5000.00		TEST LINES TO 5000 PSI
Event	11	Pump Spacer 1	Pump Spacer 1	6/16/2019	08:57:00	COM4	3.00	8.33	690.00	10.00	10 BBLS FRESH WATER
Event	12	Pump Spacer 2	Pump Spacer 2	6/16/2019	09:00:47	COM4	3.00	8.40	690.00	20.00	20 BBLS MUDFLUSH

Event	13	Pump Lead Cement	Pump Lead Cement	6/16/2019	09:06:53	COM4	8.00	12.30	800.00	447.20	447.2 BBLS LEAD CEMENT, 1190 SKS @ 12.3 PPG / 2.11 YLD / 11.05 GAL/SK, 180 LBS WELLIFE THROUGHOUT
Event	14	Pump Tail Cement	Pump Tail Cement	6/16/2019	10:13:23	COM4	8.00	13.30	650.00	149.00	149 BBLS TAIL CEMENT, 470 SKS @ 13.3 PG / 1.78 YLD / 8.34 GAL/SK, 105 LBS WELL LIFE THROUGHOUT
Event	15	Drop Top Plug	Drop Top Plug	6/16/2019	10:47:07	COM4					PLUG AWAY
Event	16	Pump Displacement	Pump Displacement	6/16/2019	10:49:11	USER	10.00	8.40	2630.00	138.00	138 BBLS KCL WATER WITH 3 LBS BE-6 AND 1 GALLON MMCR
Event	17	Bump Plug	Bump Plug	6/16/2019	11:05:12	COM4	4.00	8.40	2040.00	138.00	PLUG BUMPED AT CALCULATED DISPLACEMENT, FINAL CIRCUALTING PRESSURE 2040 PSI, BROUGHT TO 2900 PSI
Event	18	Other	CHECK FLOATS	6/16/2019	11:06:52	COM4					FLOATS HELD, 1.5 BBLS BACK TO PUMP
Event	19	End Job	End Job	6/16/2019	11:08:04	COM4					PIPE WAS RECIPRICATED, GOOD RETURNS THROUGHOUT, 50 BBLS LEAD CEMENT TO SURFACE, 285 LBS WELL LIFE USED
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/16/2019	11:15:00	USER					JSA COMPLETED
Event	21	Rig-Down Equipment	Rig-Down Equipment	6/16/2019	11:20:00	USER					
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/16/2019	11:55:00	USER					JSA COMPLETED
Event	23	Crew Leave Location	Crew Leave Location	6/16/2019	12:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, CO - RYAN MARTIN AND CREW

3.0 Attachments

3.1 905768095-Custom Results.png

