

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: Terra

Date: Sunday, September 16, 2018

CLOUGH NR 312-2 Surface

API#05-045-23922

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	9/15/2018	22:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	9/16/2018	01:30:00	USER					JOURNEY MANAGEMENT COMPLETE, AS WELL AS JSA
Event	3	Crew Leave Yard	9/16/2018	01:45:00	USER					
Event	4	Arrive At Loc	9/16/2018	03:00:00	USER					JOURNEY MANAGEMENT CLOSED OUT. RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	9/16/2018	03:30:00	USER					
Event	6	Pre-Rig Up Safety Meeting	9/16/2018	03:45:00	USER					JSA COMPLETE
Event	7	Rig-Up Equipment	9/16/2018	04:00:00	USER					1 660, 1 ELITE
Event	8	Other	9/16/2018	04:30:00	USER					WATER TEST: PH-7, CL-0, TEMP-67 WELL INFO: 9 5/8 36# SET @ 1129, TD- 1136, S.J.- 44.69, HOLE - 13.5, MUD#- 9.5
Event	9	Other	9/16/2018	04:45:00	USER					MUD SCALES CHECKED WITH WATER PRIOR TO JOB.
Event	10	Pre-Job Safety Meeting	9/16/2018	05:30:00	USER					JSA COMPLETE
Event	11	Start Job	9/16/2018	06:17:00	COM5					
Event	12	Test Lines	9/16/2018	06:21:14	COM5			3093.00		3093 PSI
Event	13	Pump Spacer 1	9/16/2018	06:25:19	COM5	8.33	2.00	40.00	20.0	FRESH WATER
Event	14	Check Weight	9/16/2018	06:29:16	COM5	12.3				GOOD
Event	15	Pump Lead Cement	9/16/2018	06:33:18	COM5	12.32	8.00	600.0	52.9	125 SKS VARICEM, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	16	Pump Tail Cement	9/16/2018	06:41:23	COM5	12.80	8.00	655.00	65.8	175 SKS VARICEM, 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK

Event	17	Check Weight	9/16/2018	06:42:00	COM5	12.80					GOOD
Event	18	Shutdown	9/16/2018	06:50:21	USER						TO DROP TOP PLUG AND WASH UP TUB ON TOP OF PLUG
Event	19	Drop Top Plug	9/16/2018	06:51:00	USER						AWAY
Event	20	Pump Displacement	9/16/2018	06:51:34	COM5	8.33	10.0	830	83.9		FRESH WATER USING POSITIVE DISPLACEMENT
Event	21	Slow Rate	9/16/2018	07:02:31	USER	8.33	1.90	240.00	73.0		TO BUMP PLUG
Event	22	Bump Plug	9/16/2018	07:06:36	COM5	8.33	2.00	267.00	83.90		PLUG BUMPED
Event	23	Check Floats	9/16/2018	07:09:33	USER			755.00			FLOATS HELD 0.5 BBLS BACK TO TRUCK
Event	24	End Job	9/16/2018	07:10:50	COM5						GOOD RETURNS THROUGHOUT JOB, NO PIPE MOVEMENT, 23 BBLS CMT TO SURFACE
Event	25	Post-Job Safety Meeting (Pre Rig-Down)	9/16/2018	09:00:00	USER						
Event	26	Crew Leave Location	9/16/2018	09:30:00	USER						THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

3.0 Attachments

3.1 CHART.png

