

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: TEP

Date: Tuesday, December 04, 2018

GM 343-8 Surface PJR

API #: 05-045-24020

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

1.1 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	12/4/2018	09:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	12/4/2018	11:25:00	USER					
Event	3	Crew Leave Yard	12/4/2018	11:30:00	USER					
Event	4	Arrive At Loc	12/4/2018	13:30:00	USER					REQUESTED ON LOC TIME WAS 1500 12/4/18, CREW ARRIVED @ 1330, RIG FINISHING PULLIN OUT OF HOLE.
Event	5	Assessment Of Location Safety Meeting	12/4/2018	13:40:00	USER					
Event	6	Spot Equipment	12/4/2018	13:45:00	USER					
Event	7	Pre-Rig Up Safety Meeting	12/4/2018	13:50:00	USER					
Event	8	Rig-Up Equipment	12/4/2018	13:55:00	USER					
Event	9	Pre-Job Safety Meeting	12/4/2018	15:30:00	USER					
Event	10	Start Job	12/4/2018	19:21:45	COM5					TD: 1038 TP: 1044 SJ: 31.9 MW: 9.1 PPG 13 3/8" 54.5#/FT CSG IN 17 1/2" OH WATER TEST: PH: 7 POTASSIUM: 450 CHLORIDES: 0 SULFATES: <200 TEMP: 64 DEGREES
Event	11	Test Lines	12/4/2018	19:24:30	COM5			3000.0		3000 PSI TEST SUCCESSFUL
Event	12	Pump Spacer 1	12/4/2018	19:28:16	COM5	8.33	4.00	140.00	20.00	FRESH H2O SPACER
Event	13	Pump Lead Cement	12/4/2018	19:36:40	COM5	12.30	8.00	540.00	74.20	175 SKS @ 12.3 PPG 2.38 YLD 13.77 GAL/SK H2O
Event	14	Pump Tail Cement	12/4/2018	19:46:53	COM5	12.80	8.00	563.00	80.8	215 SKS @ 12.8 PPG 2.11 YLD 11.78 GAL/SK H2O
Event	15	Shutdown	12/4/2018	19:58:06	USER					

Event	16	Drop Top Plug	12/4/2018	20:00:06	COM5					
Event	17	Pump Displacement	12/4/2018	20:01:29	COM5	8.33	8.00	535.00	156.40	FRESH H2O DISPLACEMENT. HAD TO SLOW RATE EARLY DUE TO RIG'S CELLAR PUMPS NOT KEEPING UP.
Event	18	Slow Rate	12/4/2018	20:22:13	USER	8.28	2.00	210.00	125.00	
Event	19	Bump Plug	12/4/2018	20:36:18	COM5	8.33	2.00	721.00	156.40	PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	20	Check Floats	12/4/2018	20:37:10	USER					FLOATS HELD, GAINED 1 BBL BACK TO PUMP
Event	21	End Job	12/4/2018	20:38:00	COM5					
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	12/4/2018	20:40:00	USER					
Event	23	Rig-Down Equipment	12/4/2018	20:45:00	USER					GOOD CIRCULATION THROUGHOUT JOB. PIPE WAS LEFT STATIC. CIRCULATED 26 BBL CMT TO SURFACE.
Event	24	Pre-Convoy Safety Meeting	12/4/2018	21:55:00	USER					NO SUGAR USED, NO ADD HOURS CHARGED, USED CUSTOMER SUPPLIED TOP PLUG.
Event	25	Crew Leave Location	12/4/2018	22:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENTING ANTHONY ANDREWS AND CREW

TEP - FEDERAL GM 343-8 - 13 3/8" SURFACE

