

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

Rock Springs District, CO

For:

Date: Wednesday, September 04, 2019

PA 13-24

API# 05-045-23893

Garfield County, PA 13-24

Case 1

Job Date: Wednesday, September 04, 2019

Sincerely,
Rock Springs Engineering

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	9/4/2019	00:45:00	USER					REQUESTED ON LOCATION @ 0700
Event	2	Pre-Convoy Safety Meeting	9/4/2019	05:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	9/4/2019	05:30:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive at Location from Service Center	9/4/2019	06:00:00	USER					RIG PULLING DRILL PIPE
Event	5	Assessment Of Location Safety Meeting	9/4/2019	06:15:00	USER					MET WITH COMP REP, , AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 69F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Safety Meeting - Pre Rig-Up	9/4/2019	06:30:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	9/4/2019	06:45:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	9/4/2019	09:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	9/4/2019	10:17:13	COM2					TD 1138', TP 1132.38', SJ 39.4', OH 13.5'', CSG 9.625'' 36#, MUD 9.6 PPG. RIG CIRCULATED WELL FOR APPROX 1 HRS.
Event	10	Prime Pumps	9/4/2019	10:17:43	USER	60.00	8.33	2.00	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	9/4/2019	10:19:35	COM2	3274.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 3240 PSI
Event	12	Pump Spacer 1	9/4/2019	10:22:32	COM2	180.00	8.33	6.00	20.00	8.33 PPG FRESH WATER (20 BBL)
Event	13	Pump Lead Cement	9/4/2019	10:28:30	COM2	470.00	12.30	8.00	53.00	VARICEM CEMENT 125 SKS (53 BBLs), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check Weight	9/4/2019	10:28:58	COM2					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES

Event	15	Pump Tail Cement	9/4/2019	10:35:50	COM2	470.00	12.80	8.00	66.00	VARICEM CEMENT 175 SKS (66 BBLS), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	16	Check Weight	9/4/2019	10:35:55	COM2					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	9/4/2019	10:44:46	USER					END OF CMT
Event	18	Drop Top Plug	9/4/2019	10:47:34	COM2					WASH UP PUMPS AND LINES ON TOP OF PLUG
Event	19	Pump Displacement	9/4/2019	10:48:02	COM2	640.00	8.33	10.00	74.50	8.34 PPG FRESH WATER (84.5 BBLS)
Event	20	Slow Rate	9/4/2019	10:59:18	USER	256.00	8.33	4.00	10.00	SLOW RATE TO 4 BPM PER CO REP TO LAND PLUG
Event	21	Bump Plug	9/4/2019	11:02:10	USER	861.00	8.33	4.00	84.40	LAND PLUG AT 256 PSI, BROUGHT UP TO 861 PSI
Event	22	Check Floats	9/4/2019	11:03:16	USER	912.00	8.33	4.00		FLOATS HELD, 1 BBL BACK TO TRUCK
Event	23	End Job	9/4/2019	11:03:55	COM2					RETURNS THROUGHOUT JOB, 20 BBL OF CEMENT BACK TO SURFACE, 100# OF SUGAR USED
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	9/4/2019	11:10:00	USER					ALL HES PRESENT
Event	25	Rig-Down Equipment	9/4/2019	11:20:00	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	9/4/2019	11:40:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	9/4/2019	11:50:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

2.0 Attachments

2.1 CHART.png

