

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

Rock Springs District, CO

For:

Date: Tuesday, September 03, 2019

PA 313-24 Production

API# 05-045-23891

Garfield County, PA

Case 1

Job Date: Tuesday, September 03, 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 <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	9/3/2019	03:00:00	USER					REQUESTED ON LOCATION @ 0300
Event	2	Pre-Convoy Safety Meeting	9/3/2019	04:30:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	9/3/2019	04:45:00	USER					1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK
Event	4	Arrive at Location from Service Center	9/3/2019	06:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	9/3/2019	06:15:00	USER					MET WITH COMP REP, CRAIG, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 68F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Safety Meeting - Pre Rig-Up	9/3/2019	06:30:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	9/3/2019	06:45:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	9/3/2019	10:00:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	9/3/2019	11:33:30	COM2					TD 9021', TP 9011', SJ 31.45', OH 8.75'', CSG 4.5'' 11.6#, MUD 13.6 PPG. RIG CIRCULATED WELL @ 10 BPM WITH 1100 PSI WITH 40 GAS UNITS.
Event	10	Prime Pumps	9/3/2019	11:34:05	USER	424.00	8.33	2.00	2.00	8.33 PPG FRESH WATER
Event	11	Test Lines	9/3/2019	11:36:47	COM2	5171.00	8.33	0.50	0.50	ALL LINES HELD PRESSURE AT 5171 PSI
Event	12	Pump Spacer 1	9/3/2019	11:40:47	COM2	399.00	8.33	4.00	20.00	MUD FLUSH III (20 BBL), 8.4 PPG
Event	13	Pump Lead Cement	9/3/2019	11:49:44	COM2	1158.00	14.20	4.00	318.00	NEOCEM CEMENT 1030 SKS (318 BBLs), 14.2 PPG, 1.73 FT3/SK, 7.78 GAL/SK
Event	14	Check Weight	9/3/2019	11:58:33	COM2					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES

Event	15	Shutdown	9/3/2019	12:38:37	USER					END OF CMT
Event	16	Clean Lines	9/3/2019	12:39:03	USER					WASH UP PUMPS AND LINES
Event	17	Drop Top Plug	9/3/2019	12:45:28	USER					PLUG WENT, VERIFIED BY CO REP.
Event	18	Pump Displacement	9/3/2019	12:46:27	COM2	2900.00	8.33	10.00	129.20	8.34 PPG FRESH WATER (139.2 BBL) 3 BAGS BE6, 1 GAL MMCR & 14 SKS KCL
Event	19	Slow Rate	9/3/2019	13:00:20	USER	2363.00	8.33	4.00	10.00	SLOW RATE TO 4 BPM PER CO REP TO LAND PLUG
Event	20	Bump Plug	9/3/2019	13:03:11	USER	3128.00	8.33	4.00	139.20	LAND PLUG AT 2600 PSI, BROUGHT UP TO 3150 PSI
Event	21	Check Floats	9/3/2019	13:04:36	USER	3203.00	8.33	0.00	139.20	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	22	End Job	9/3/2019	13:05:00	COM2					GOOD RETURNS THROUGHOUT, PIPE WAS RECIPROCATED, 1 GL MMCR AND 3# OF BE6 USED.
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	9/3/2019	13:10:00	USER					ALL HES PRESENT
Event	24	Rig-Down Equipment	9/3/2019	13:15:00	USER					ALL HES PRESENT
Event	25	Pre-Convoy Safety Meeting	9/3/2019	14:00:00	USER					ALL HES PRESENT
Event	26	Crew Leave Location	9/3/2019	14:15:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

