

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

Date: Friday, July 20, 2018

PA 421-26

Terra PA 421-26 Production
API #05-045-23711-00
Job Date: Friday, July 20, 2018

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	7/20/2018	04:30:00	USER					REQUESTED ON LOCATION @ 8:30
Event	2	Depart Yard Safety Meeting	7/20/2018	06:15:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	7/20/2018	06:30:00	USER					1 HT 400 PUMP TRUCK E4, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	7/20/2018	08:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	7/20/2018	08:15:00	USER					MET WITH COMP REP, WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE. COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Spot Equipment	7/20/2018	08:30:00	USER					1 HT 400 PUMP TRUCK E4, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	7	Pre-Rig Up Safety Meeting	7/20/2018	08:40:00	USER					ALL HES PRESENT
Event	8	Pre-Job Safety Meeting	7/20/2018	09:00:00	USER					RIG CIRCULATED AT 12 BPM PRESSURE 2000PSI THROUGH A CRT
Event	9	Start Job	7/20/2018	10:11:44	USER					TD 8990', TP 8965.06', SJ 30.09', FC 8930.91', SURFACE CSG 9 5/8" 36# H-40 SET @ 1125', PRODUCTION CSG 4 1/2" 11.6# P-110, OH 8 3/4", MUD 12.8 PPG
Event	10	Prime Lines	7/20/2018	10:13:43	USER	8.33	.9	270	2	FRESH WATER
Event	11	Test Lines	7/20/2018	10:16:48	COM5			5247		PRESSURE HELD
Event	12	Pump H2O Spacer	7/20/2018	10:23:34	COM5	8.33	4.0	460	10	10 BBL FRESH WATER

Event	13	Pump Mud Flush	7/20/2018	10:27:14	COM5	8.4	4.0	615	20	80LBS MUD FLUSH IN 20 BBL FRESH WATER
Event	14	Pump Cement	7/20/2018	10:32:47	COM5	14.5	8..0	1050	430.2	1830 SKS THERMACEM CMT, 14.5 PPG, 1.32 FT3/SK, 5.85 GAL/SK
Event	15	Check Weight	7/20/2018	10:47:20	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	16	Shutdown	7/20/2018	11:38:26	USER					END OF CEMENT. BLEW LINES DOWN FROM FLOOR TO PIT, CLEANED LINES FROM PUMP TO PIT
Event	17	Pump Displacement	7/20/2018	11:46:44	COM5	8.4	10	2960	128	1 GAL MMCR IN FIRST 10 BBLS, 3 LBS BE-6 IN FIRST 30 BBLS, 1 50 LB. BAG KCL THROUGHOUT DISPLACEMENT
Event	18	Slow Rate	7/20/2018	12:00:59	USER	8.4	4.0	2700	10	SLOWED RATE TO BUMP PLUG
Event	19	Bump Plug	7/20/2018	12:03:56	COM5	8.4	4.0	2700	138	PLUG BUMPED
Event	20	Check Floats	7/20/2018	12:07:10	USER			3600		FLOATS HELD 2 BBL FLOWED BACK TO TRUCK
Event	21	End Job	7/20/2018	12:08:46	USER					WE HAD RETURNS THROUGHOUT JOB, PIPE WAS RECIPICATED DURING CEMENT. USED TOP PLUG, 1 GAL MMCR, 3 BE-6, AND 80 LBS MUD FLUSH III FOR JOB.
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	7/20/2018	12:15:00	USER					ALL HES PRESENT
Event	23	Pre-Convoy Safety Meeting	7/20/2018	13:45:00	USER					ALL HES PRESENT
Event	24	Depart Location	7/20/2018	14:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, DUSTIN HYDE AND CREW

TERRA - PA 421-26 - 4 1/2" PRODUCTION

