

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: TEP

Date: Monday, December 03, 2018

GM 11-8 Surface PJR

API# 05-045-24021-00

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	12/3/2018	08:00:00	USER					REQUESTED ON LOCATION @ 13:00
Event	2	Pre-Convoy Safety Meeting	12/3/2018	10:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	12/3/2018	10:15:00	USER					1 RED TIGER , 1 FRUEHAUF TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	12/3/2018	12:30:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	12/3/2018	12:40:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7.0, CHLORIDES- 500, TEMP- 72F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	12/3/2018	13:30:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	12/3/2018	13:45:00	USER					HES RIGGED UP 1 HT400 PUMP TRUCK, 1 660 BULK TRUCK, 2 CEMENT SILOS, 1 TRANSPORT, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	12/3/2018	15:30:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 10 BPM PRIOR TO JOB PRESSURE @ 300 PSI. CALIBRATED MUD SCALES ON WATER.
Event	9	Start Job	12/3/2018	15:35:54	COM6					TD 1038', TP 1043' OF 13 3/8" 54.5# SURFACE CSG, FC @ 1010.99', OH 17", MUD 9.4 PPG
Event	10	Prime Pumps	12/3/2018	15:36:40	USER	8.33	2	25	2	FRESH WATER
Event	11	Test Lines	12/3/2018	15:38:59	COM6			3030		ALL LINES HELD PRESSURE AT 3030 PSI

Event	12	Pump H2O Spacer	12/3/2018	15:40:57	COM6	8.33	4	100	20	20BBLs FRESH WATER
Event	13	Pump Lead Cement	12/3/2018	15:49:28	COM6	12.3	8	430	74.2	175 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check Weight	12/3/2018	15:52:26	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Tail Cement	12/3/2018	16:00:49	COM6	12.8	8	470	80.8	215 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Check Weight	12/3/2018	16:02:34	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Slow Rate	12/3/2018	16:08:39	USER					SLOWED TO END CEMENT
Event	18	Shutdown	12/3/2018	16:12:40	USER					END OF CEMENT, WASH UP ON TOP OF PLUG
Event	19	Drop Top Plug	12/3/2018	16:15:52	COM6					VERIFIED BY FLAG INDICATOR
Event	20	Pump Displacement	12/3/2018	16:15:55	COM6	8.33	10	870	156.3	FRESH WATER
Event	21	Slow Rate	12/3/2018	16:36:53	USER	8.33	2	380	146.3	SLOW RATE TO 2 BPM TO BUMP PLUG
Event	22	Bump Plug	12/3/2018	16:43:29	USER	8.33	2	400	156.3	LAND PLUG AT 400 PSI, BROUGHT UP TO 920 PSI
Event	23	Check Floats	12/3/2018	16:46:17	USER					FLOATS HELD, 1 BBL BACK TO TRUCK
Event	24	End Job	12/3/2018	16:47:44	COM6					RETURNS THROUGHOUT JOB, 40 BBLs CMT TO SURFACE, NO SUGAR USED. USED THIRD PARTY TOP PLUG.
Event	25	Post-Job Safety Meeting (Pre Rig-Down)	12/3/2018	16:50:00	USER					ALL HES PRESENT
Event	26	Rig Down Lines	12/3/2018	17:00:00	USER					ALL HES PRESENT
Event	27	Pre-Convoy Safety Meeting	12/3/2018	18:00:00	USER					ALL HES PRESENT
Event	28	Crew Leave Location	12/3/2018	18:15:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW

3.0 Attachments

3.1 CHART.png

