

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: TEP

Date: Saturday, December 08, 2018

GM 322-8 SURFACE PJR

API# 05-045-24022

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	12/8/2018	14:30:00	USER					REQUESTED ON LOCATION @ 20:30
Event	2	Pre-Convoy Safety Meeting	12/8/2018	16:15:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	12/8/2018	16:30:00	USER					1 HT 400 PUMP TRUCK E8, 1 FRUEHAUF BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	12/8/2018	18:30:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	12/8/2018	18:40:00	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- 65F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	12/8/2018	18:50:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	12/8/2018	19:00:00	USER					HES RIGGED UP 1 HT400 PUMP TRUCK, 1 CEMENT SILOS, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	12/8/2018	21:00:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 10 BPM PRIOR TO JOB PRESSURE @ 380 PSI.
Event	9	Start Job	12/8/2018	21:12:11	COM6					TD 1037', TP 1042.09' OF 13 3/8" 54.5# SURFACE CSG, FC @ 1009.59', OH 17", MUD 9.2 PPG
Event	10	Prime Lines	12/8/2018	21:12:43	COM6	8.33	2	54	2	FRESH WATER
Event	11	Test Lines	12/8/2018	21:15:05	COM6			3250		ALL LINES HELD PRESSURE AT 3250 PSI

Event	12	Pump H2O Spacer	12/8/2018	21:17:43	COM6	8.33	4	150	20	20BBLs FRESH WATER
Event	13	Pump Lead Cement	12/8/2018	21:25:00	COM6	12.3	8	630	74.2	175 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check Weight	12/8/2018	21:27:29	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Tail Cement	12/8/2018	21:34:37	COM6	12.8	8	640	80.8	215 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Check Weight	12/8/2018	21:36:57	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	12/8/2018	21:46:41	USER					END OF CEMENT, WASH UP ON TOP OF PLUG
Event	18	Pump Displacement	12/8/2018	21:50:33	COM6	8.33	10	850	156.1	FRESH WATER
Event	19	Drop Top Plug	12/8/2018	21:50:44	USER					VERIFIED BY FLAG INDICATOR
Event	20	Slow Rate	12/8/2018	22:08:42	USER	8.33	2	260	146.1	SLOW RATE TO 2 BPM TO BUMP PLUG
Event	21	Bump Plug	12/8/2018	22:12:40	COM6	8.33	2	300	156.1	LAND PLUG AT 300 PSI, BROUGHT UP TO 890 PSI
Event	22	Check Floats	12/8/2018	22:13:29	USER					FLOATS HELD, 1 BBL BACK TO TRUCK
Event	23	End Job	12/8/2018	22:14:47	COM6					RETURNS THROUGHOUT JOB, 36 BBLs CMT TO SURFACE, 100# OF SUGAR USED. USED THIRD PARTY TOP PLUG.
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	12/8/2018	22:20:00	USER					ALL HES PRESENT
Event	25	Rig Down Lines	12/8/2018	22:33:18	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	12/8/2018	23:30:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	12/8/2018	23:44:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW

TERRA GM 322-8, 13 3/8" SURFACE

