

HALLIBURTON

iCem[®] Service

Terra Energy Partners

For: Terra

Date: Thursday, May 17, 2017

SR 521-12 Surface PJR

API #05-045-23433-00

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	5/16/2017	16:30:00	USER					REQUESTED ON LOCATION @ 2300
Event	2	Pre-Convoy Safety Meeting	5/16/2017	18:30:00	USER					ALL HES PRESENT
Event	3	Arrive At Loc	5/16/2017	18:45:00	USER					RIG RUNNING CASING
Event	4	Assessment Of Location Safety Meeting	5/16/2017	19:10:00	USER					MET WITH COMP REP, M. HUDSON, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 65F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	5	Pre-Rig Up Safety Meeting	5/16/2017	19:30:00	USER					ALL HES PRESENT
Event	6	Rig-Up Equipment	5/16/2017	19:40:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	7	Pre-Job Safety Meeting	5/17/2017	03:15:00	USER					ALL HES AND RIG CREW PRESENT
Event	8	Start Job	5/17/2017	03:45:00	COM6					TD 1140', TP 1063.9', SJ 42.85', OH 13.5", CSG 9.625" 32.3#, MUD 9.3 PPG. RIG CIRCULATED WELL FOR APPROX 1 HRS.
Event	9	Prime Pump	5/17/2017	03:45:56	USER	34.00	8.56	1.70	0.5	8.33 PPG FRESH WATER
Event	10	Test Lines	5/17/2017	03:48:24	COM6	3190.00	8.63	0.00	1.1	ALL LINES HELD PRESSURE AT 3100 PSI

Event	11	Pump Spacer 1	5/17/2017	03:53:48	COM6	11.00	8.52	0.00	1.1	8.33 PPG FRESH WATER (10BBL)
Event	12	Check weight	5/17/2017	03:55:53	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	13	Pump Lead Cement	5/17/2017	03:58:37	COM6	163.00	12.22	4.00	13.2	NEOCEM CEMENT 125 (53 BBLS), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check weight	5/17/2017	04:03:11	COM6	264.00	12.35	7.20	26.5	WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Tail Cement	5/17/2017	04:07:32	COM6	222.00	12.78	7.00	0.1	NEOCEM CEMENT 175 SKS (65.8 BBLS), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	16	Check weight	5/17/2017	04:10:07	COM6	228.00	12.85	7.00	18.2	WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	5/17/2017	04:18:24	USER					END OF CEMENT
Event	18	Drop Top Plug	5/17/2017	04:23:40	USER					WASH UP PUMPS AND LINES ON TOP OF PLUG
Event	19	Pump Displacement	5/17/2017	04:25:01	USER	12.00	8.50	2.40	0.6	8.34 PPG FRESH WATER (83.7 BBLS)
Event	20	Slow Rate	5/17/2017	04:35:44	USER	267.00	8.28	2.00	76.8	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	21	Bump Plug	5/17/2017	04:41:00	USER	789.00	8.30	0.00	86.7	LAND PLUG AT 250 PSI, BROUGHT UP TO 750 PSI
Event	22	Check Floats	5/17/2017	04:42:53	USER	793.00	8.30	0.00	86.7	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	23	End Job	5/17/2017	04:44:45	COM6					RETURNS THROUGHOUT JOB , JOB WAS PUMPED OFF LINE, 40 BBL OF CEMENT BACK TO SURFACE
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	5/17/2017	05:00:00	USER					ALL HES PRESENT
Event	25	Rig-Down Equipment	5/17/2017	05:10:00	USER					ALL HES PRESENT
Event	26	Crew Leave Location	5/17/2017	06:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

2.0 Attachments

2.1 CHART.png

