

HALLIBURTON

iCem[®] Service

Terra Energy Partners

For: Terra

Date: Thursday, May 18, 2017

SR 531-12 Surface PJR

API# 05-045-23431-00

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	5/17/2017	16:30:00	USER					REQUESTED ON LOCATION @ 2200
Event	2	Pre-Convoy Safety Meeting	5/17/2017	19:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	5/17/2017	19:30:00	USER					1 F550, 1 PUMP TRUCK
Event	4	Arrive At Loc	5/17/2017	20:30:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	5/17/2017	20:45:00	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	6	Pre-Rig Up Safety Meeting	5/17/2017	21:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	5/17/2017	21:10:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	5/18/2017	01:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	5/18/2017	02:11:00	COM6					TD 1148', TP 1082', SJ 37.2', OH 13.5", CSG 9.625" 32.3#, MUD 9.6 PPG. RIG CIRCULATED WELL FOR APPROX 1 HRS.
Event	10	Prime Pumps	5/18/2017	02:12:32	COM6	25.00	8.60	1.70	0.8	8.33 PPG FRESH WATER
Event	11	Test Lines	5/18/2017	02:15:42	COM6	2770.00	8.64	0.00	1.8	ALL LINES HELD PRESSURE AT 2770 PSI

Event	12	Pump Spacer 1	5/18/2017	02:22:44	COM6	31.00	8.58	2.00	1.1	8.33 PPG FRESH WATER (20BBL)
Event	13	Check weight	5/18/2017	02:27:06	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	14	Pump Lead Cement	5/18/2017	02:29:23	COM6	168.00	12.22	4.00	2.2	NEOCEM CEMENT 125 (53 BBLs), 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	15	Pump Tail Cement	5/18/2017	02:36:55	COM6	296.00	12.80	7.90	1.9	NEOCEM CEMENT 175 SKS (65.8 BBLs), 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK.
Event	16	Check weight	5/18/2017	02:37:53	COM6	294.00	12.92	7.90	9.9	WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	5/18/2017	02:47:32	USER					END OF CEMENT
Event	18	Drop Top Plug	5/18/2017	02:55:15	USER					WASH UP PUMPS AND LINES ON TOP OF PLUG
Event	19	Pump Displacement	5/18/2017	02:56:47	COM6	10.00	1.84	3.10	0.5	8.34 PPG FRESH WATER (85.2 BBLs)
Event	20	Slow Rate	5/18/2017	03:06:39	USER	268.00	8.28	2.00	79.5	SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG
Event	21	Bump Plug	5/18/2017	03:12:18	USER	808.00	8.29	0.00	89.5	LAND PLUG AT 280 PSI, BROUGHT UP TO 808 PSI
Event	22	Check Floats	5/18/2017	03:14:21	USER	808.00	8.29	0.00	89.5	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	23	End Job	5/18/2017	03:15:24	COM6					RETURNS THROUGHOUT JOB , JOB WAS PUMPED OFF LINE, 20 BBL OF CEMENT BACK TO SURFACE
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	5/18/2017	03:20:00	USER					ALL HES PRESENT
Event	25	Rig-Down Equipment	5/18/2017	03:25:00	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	5/18/2017	04:10:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	5/18/2017	04:20:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

2.0 Attachments

2.1 CHART.png

