

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density <i>(ppg)</i>	Combined Pump Rate <i>(bbl/min)</i>	Pass-Side Pump Pressure <i>(psi)</i>	Pump Stage Total <i>(bbl)</i>	Comments
Event	1		Call Out	11/22/2017	21:00:00	USER					HES CREW WAITING IN THE FIELD - ALL HES NOTIFIED
Event	2		Arrive At Loc	11/23/2017	02:30:00	USER					HES ARRIVED ON TIME
Event	3		Assessment Of Location Safety Meeting	11/23/2017	02:45:00	USER					RIG WAS RUNNING CASING - HES REP WENT AND SPOKE WITH COMPANY REP
Event	4		Pre-Rig Up Safety Meeting	11/23/2017	03:00:00	USER					HES SPOTTED EQUIPMENT AND HELD SAFETY MEETING
Event	5		Rig-Up Equipment	11/23/2017	03:05:00	USER					JSA FILLED OUT AND REVIEWED BY ALL HES - RIG UP IRON TO THE RIG FLOOR, WATER HOSES TO RIG UPRIGHT, BULK HOSE TO CEMENT SILO
Event	6		Rig-Up Completed	11/23/2017	03:45:00	USER					COMPLETED SAFELY
Event	7		Pre-Job Safety Meeting	11/23/2017	04:10:00	USER					ALL HES, RIG CREW AND COMPANY REP IN ATTENDANCE OF SAFETY MEETING
Event	8		Start Job	11/23/2017	04:19:41	COM5					TD: 840FT TP: 826FT SJ: 42FT OH: 12.25 CSG: 8.625 32# J-55 MUD WT: 9.3 WTR TEST- TEMP: 60 CHLOR: 0 PH: 7
Event	9		Fill Lines	11/23/2017	04:20:06	USER	8.34	2	30	2	FILL LINES WITH 2 BBLS OF WATER AHEAD AT 2 BBLS/MIN TOP PRESSURE

										WAS 30 PSI
Event	10	Test Lines	11/23/2017	04:21:19	COM5			3440		PRESSURE TEST LINES TO 3440 PSI, PRESSURE TEST OK
Event	11	Fresh Water Spacer	11/23/2017	04:25:34	COM5	8.34	4	100	20	20 BBL FRESH WATER SPACER PUMPED AT 4 BBL/MIN PRESSURE WAS 100 PSI
Event	12	Pump Lead Cement	11/23/2017	04:33:39	COM5	12.3	8	325	35.9	82 SKS OF VARICEM CEMENT (35.9BBLS) 12.3PPG 2.46YIELD 14.17GAL/SK WEIGHT OF CEMENT VERIFIED VIA PRESSURIZED MUD SCALES THROUGHOUT LEAD CEMENT
Event	13	Pump Tail Cement	11/23/2017	04:38:22	COM5	12.8	8	325	50.5	130 SKS OF VARICEM CEMENT (50.5BBLS) 12.8PPG 2.18YIELD 12.11GAL/SK WEIGHT OF CEMENT VERIFIED VIA PRESSURIZED MUD SCALES THROUGHOUT TAIL CEMENT
Event	14	Shutdown	11/23/2017	04:46:49	USER					SHUTDOWN END OF CEMENT - HES WASHED UP ON TOP OF THE PLUG - READY TANKS FOR DISPLACEMENT
Event	15	Drop Top Plug	11/23/2017	04:49:35	COM5					TOP PLUG AWAY NO PROBLEMS
Event	16	Pump Displacement	11/23/2017	04:49:37	COM5	8.34	8	360	37.7	FRESH WATER DISPLACEMENT PUMPED AT 8 BBL/MIN TOP PRESSURE WAS 360 PSI
Event	17	Slow Rate	11/23/2017	04:56:18	USER	8.34	2	180	10	SLOW RATE TO BUMP THE PLUG - PRESSURE PRIOR TO

											SLOWING WAS 360 PSI AT 8 BBL/MIN
Event	18	Bump Plug	11/23/2017	05:02:00	COM5	8.34	2	200	47.7		PLUG WAS BUMPED AT CALCULATED DISPLACEMENT - PLUG BUMPED AT 200 PSI AT 2 BBL/MIN TOOK TO 715 PSI
Event	19	Check Floats	11/23/2017	05:03:21	USER			715			FLOATS HELD .5 BBL BACK TO THE TANKS - 17 BBL OF CEMENT TO SURFACE - NO ADD HOURS - NO SUGAR AND NO DERRICK CHARGE
Event	20	End Job	11/23/2017	05:05:47	COM5						THANK YOU FOR CHOOSING HALLIBURTON CEMENT CARL KUKUS AND CREW
Event	21	Pre-Rig Down Safety Meeting	11/23/2017	05:10:00	USER						JSA REVIEWED - ALL HES INVOLVED IN SAFETY MEETING
Event	22	Rig-Down Equipment	11/23/2017	05:15:00	USER						WASH UP AND BLOW DOWN PUMP TRUCK - RIG DOWN ALL LINES AND EQUIPMENT
Event	23	Rig-Down Completed	11/23/2017	05:45:00	USER						COMPLETED SAFELY
Event	24	Pre-Convoy Safety Meeting	11/23/2017	06:00:00	USER						JOURNEY CREATED - ALL HES INVOLVED IN SAFETY MEETING
Event	25	Crew Leave Location	11/23/2017	06:10:00	USER						1-F-550 PICKUP WITH COMPRESSOR TRAILER, 1-ELITE PUMP TRUCK, 1-FRUEHAUFF