

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pass-Side Pump Pressure (psi)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	12/9/2017	16:00:00	USER					ON LOCATION 00:01
Event	2	Pre-Convoy Safety Meeting	12/9/2017	22:00:00	USER					HES CREW IS WAITING IN THE FIELD FOR THE JOB
Event	3	Crew Leave Yard	12/9/2017	22:10:00	USER					HES CREW WAS WAITING RIGHT DOWN THE ROAD
Event	4	Arrive At Loc	12/9/2017	22:15:00	USER					HES ARRIVED 2 HOURS EARLY
Event	5	Assessment Of Location Safety Meeting	12/9/2017	22:30:00	USER					RIG WAS RUNNING CASING
Event	6	Pre-Rig Up Safety Meeting	12/9/2017	22:45:00	USER					JSA FILLED OUT AND REVIEWED BY ALL HES
Event	7	Rig-Up Equipment	12/9/2017	23:00:00	USER					RIG-UP IRON TO THE RIG FLOOR, WATER HOSES TO RIG UPRIGHT AND BULK EQUIPMENT TO PUMP TRUCK
Event	8	Rig-Up Completed	12/10/2017	00:01:00	USER					COMPLETED SAFELY
Event	9	Pre-Job Safety Meeting	12/10/2017	00:30:00	USER					ALL HES, RIG CREW AND COMPANY REP IN ATTENDANCE
Event	10	Other	12/10/2017	00:45:00	USER					TD: 845FT TP: 831FT SJ: 43FT OH: 12.25 CSG: 8.625 32# J-55 MUD WT: 9.1 - WATER TEST: TEMP- 45 CHLOR- 0 PH- 7
Event	11	Start Job	12/10/2017	01:17:13	COM5					START JOB
Event	12	Fill Lines	12/10/2017	01:17:37	USER	8.34	2	103	2	FILL LINES WITH 2BBLS OF WATER TO PRESSURE TEST - PRESSURE WAS 103 PSI AT 2BPM
Event	13	Test Lines	12/10/2017	01:19:20	COM5			3032		PRESSURE TEST LINES TO 3032 PSI, PRESSURE TEST OK
Event	14	Fresh Water Spacer	12/10/2017	01:21:31	COM5	8.34	4	160	20	20BBLS OF FRESH WATER AHEAD
Event	15	Check weight	12/10/2017	01:25:55	COM5	12.3				VERIFIED WEIGHT OF FIRST TUB OF CEMENT VIA

PRESSURIZED MUD SCALES										
Event	16	Pump Lead Cement	12/10/2017	01:30:13	COM5	12.3	7.5	345	35.9	82SKS OF VARICEM CEMENT (35.9BBLS) 12.3PPG 2.46YIELD 14.17GAL/SK WEIGHT OF CEMENT VERIFIED VIA PRESSURIZED MUD SCALES THROUGHOUT LEAD CEMENT
Event	17	Pump Tail Cement	12/10/2017	01:37:49	COM5	12.8	7.5	350	50.5	130SKS OF VARICEM CEMENT (50.5BBLS) 12.8PPG 2.18YIELD 12.11GAL/SK WEIGHT OF CEMENT VERIFIED VIA PRESSURIZED MUD SCALES THROUGHOUT TAIL CEMENT
Event	18	Shutdown	12/10/2017	01:44:04	USER					SHUTDOWN END OF CEMENT - HES WASHED UP ON TOP OF THE PLUG - READY TANKS FOR DISPLACEMENT
Event	19	Drop Top Plug	12/10/2017	01:47:39	USER					TOP PLUG AWAY NO PROBLEMS
Event	20	Pump Displacement	12/10/2017	01:48:01	COM5	8.34	8	412	37.9	FRESH WATER DISPLACEMENT
Event	21	Slow Rate	12/10/2017	01:53:28	USER	8.34	2	192	10	SLOW RATE TO BUMP THE PLUG - PRESSURE PRIOR TO SLOWING RATE WAS 412 PSI AT 8BPM
Event	22	Bump Plug	12/10/2017	01:59:19	COM5	8.34	2	231	47.9	PLUG BUMPED AT CALCULATED DISPLACEMENT - PLUG BUMPED AT 231 PSI AT 2 BPM
Event	23	Check Floats	12/10/2017	02:00:26	USER			1140		FLOATS HELD .5 BBL BACK TO TANKS - 16 BBLS OF CEMENT TO SURFACE - RIG USED NO SUGAR - NO ADD HOURS
Event	24	End Job	12/10/2017	02:01:23	COM5					THANK YOU FOR CHOOSING HALLIBURTON CEMENT CARL KUKUS AND CREW
Event	25	Pre-Rig Down Safety Meeting	12/10/2017	02:05:00	USER					JSA REVIEWED - ALL HES INVOLVED IN SAFETY MEETING
Event	26	Rig-Down Equipment	12/10/2017	02:10:00	USER					WASH UP AND BLOW DOWN PUMP TRUCK - RIG DOWN ALL IRON, WATER HOSES AND BULK EQUIPMENT
Event	27	Rig-Down Completed	12/10/2017	02:35:00	USER					COMPLETED SAFELY
Event	28	Pre-Convoy Safety Meeting	12/10/2017	02:50:00	USER					JOURNEY CREATED ALL HES INVOLVED IN SAFETY MEETING
Event	29	Crew Leave Location	12/10/2017	03:00:00	USER					1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 1-660 BULK TRUCK