

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 | 12/8/2017 | 20:00:00 | USER | | | | | HES CREW CALLED - ON LOCATION 02:00 |
| Event | 2 | Pre-Convoy Safety Meeting | 12/8/2017 | 22:30:00 | USER | | | | | JOURNEY CREATED - ALL HES INVOLVED IN SAFETY MEETING |
| Event | 3 | Crew Leave Yard | 12/8/2017 | 22:45:00 | USER | | | | | 1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 2-660 BULK TRUCKS |
| Event | 4 | Arrive At Loc | 12/9/2017 | 01:00:00 | USER | | | | | HES ARRIVED 1 HOUR EARLY |
| Event | 5 | Assessment Of Location Safety Meeting | 12/9/2017 | 01:10:00 | USER | | | | | RIG WAS RIGGING UP WIRELINE TO LOG HOLE - HES REP SPOKE WITH COMPANY REP AND GOT WOC SIGNED |
| Event | 6 | Pre-Rig Up Safety Meeting | 12/9/2017 | 03:30:00 | USER | | | | | JSA FILLED OUT AND REVIEWED BY ALL HES |
| Event | 7 | Rig-Up Equipment | 12/9/2017 | 03:45:00 | USER | | | | | RIG UP IRON TO THE RIG FLOOR - WATER HOSES TO RIG UPRIGHT - BULK EQUIPMENT TO PUMP TRUCK |
| Event | 8 | Rig-Up Completed | 12/9/2017 | 04:45:00 | USER | | | | | COMPLETED SAFELY |
| Event | 9 | Pre-Job Safety Meeting | 12/9/2017 | 05:00:00 | USER | | | | | ALL HES, RIG CREW AND COMPANY REP INVOLVED IN SAFETY MEETING |
| Event | 10 | Other | 12/9/2017 | 05:00:01 | USER | | | | | TD: 840FT TP: 825FT 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 | 12/9/2017 | 06:45:52 | COM5 | | | | | START JOB |
| Event | 12 | Fill LINES | 12/9/2017 | 06:48:27 | USER | 8.34 | 2 | 92 | 2 | FILL LINES WITH 2BBLS OF WATER TO PRESSURE TEST |
| Event | 13 | Test Lines | 12/9/2017 | 06:51:31 | COM5 | | | 3350 | | PRESSURE TEST LINES TO 3350 PSI, PRESSURE TEST GOOD |
| Event | 14 | Fresh Water Spacer | 12/9/2017 | 06:53:33 | COM5 | 8.34 | 4 | 190 | 20 | 20 BBL FRESH WATER SPACER |
| Event | 15 | Check weight | 12/9/2017 | 06:57:31 | COM5 | 12.3 | | | | VERIFIED WEIGHT OF FIRST TUB OF CEMENT |

| | | | | | | | | | | |
|-------|----|-----------------------------|-----------|----------|------|------|----|-----|------|---|
| Event | 16 | Pump Lead Cement | 12/9/2017 | 07:04:27 | COM5 | 12.3 | 7 | 320 | 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 | 12/9/2017 | 07:10:22 | COM5 | 12.8 | 7 | 310 | 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 | 12/9/2017 | 07:17:28 | USER | | | | | SHUTDOWN END OF CEMENT - HES WASHED UP ON TOP OF THE PLUG |
| Event | 19 | Drop Top Plug | 12/9/2017 | 07:20:50 | USER | | | | | TOP PLUG AWAY - NO PROBLEMS |
| Event | 20 | Pump Displacement | 12/9/2017 | 07:21:12 | COM5 | 8.34 | 10 | 545 | 37.7 | FRESH WATER DISPLACEMENT |
| Event | 21 | Slow Rate | 12/9/2017 | 07:26:19 | USER | 8.34 | 2 | 210 | 10 | SLOW RATE TO LAND THE PLUG - PRESSURE PRIOR TO SLOWING WAS 545 PSI AT 10 BPM - PRESSURE AFTER SLOWING WAS 210 PSI AT 2 BPM |
| Event | 22 | Bump Plug | 12/9/2017 | 07:31:40 | COM5 | 8.34 | 2 | 264 | 47.7 | PLUG BUMPED AT 264 PSI AT 2BPM TOOK TO 935 PSI |
| Event | 23 | Check Floats | 12/9/2017 | 07:32:12 | COM5 | | | 935 | | FLOATS HELD .5BBL BACK TO TANKS - 18 BBLS OF CEMENT TO SURFACE - RIG USED NO SUGAR |
| Event | 24 | End Job | 12/9/2017 | 07:32:58 | COM5 | | | | | THANK YOU FOR CHOOSING HALLIBURTON CEMENT CARL KUKUS AND CREW |
| Event | 25 | Pre-Rig Down Safety Meeting | 12/9/2017 | 07:40:00 | USER | | | | | JSA REVIEWED - ALL HES INVOLVED IN SAFETY MEETING |
| Event | 26 | Rig-Down Equipment | 12/9/2017 | 07:45:00 | USER | | | | | WASH UP AND BLOW DOWN PUMP TRUCK - RIG DOWN ALL IRON, WATER HOSE AND BULK EQUIPMENT - 8 5/8" PLUG CONTAINER WAS LEFT ON THE RIG FLOOR FOR THE NEXT SURFACE |
| Event | 27 | Rig-Down Completed | 12/9/2017 | 08:30:00 | USER | | | | | COMPLETED SAFELY |
| Event | 28 | Pre-Convoy Safety Meeting | 12/9/2017 | 08:45:00 | USER | | | | | JOURNEY CREATED - ALL HES INVOLVED IN SAFETY MEETING |
| Event | 29 | Crew Leave Location | 12/9/2017 | 09:00:00 | USER | | | | | 1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 2-660 BULK TRUCKS |