

# HALLIBURTON

iCem<sup>®</sup> Service

## **URSA RESOURCES GROUP**

**For: Ursa**

Date: Wednesday, April 26, 2017

**BMC D 22A-18-07-95 Surface PJR**

Sincerely,

**Grand Junction Cement Engineering**

## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	4/26/2017	09:30:00	USER					O/L time 1600
Event	2	Pre-Convoy Safety Meeting	4/26/2017	11:15:00	USER					
Event	3	Crew Leave Yard	4/26/2017	11:30:00	USER					1 Elite, 1 Fruehauf, 1 pickup w/ compressor trailer
Event	4	Arrive At Loc	4/26/2017	12:45:00	USER					Rig just finishing pulling drill pipe
Event	5	Assessment Of Location Safety Meeting	4/26/2017	13:00:00	USER					JSA completed - customer offered/received SDS - water test pH 7.5, Cl o, temp 56 degrees
Event	6	Pre-Rig Up Safety Meeting	4/26/2017	14:15:00	USER					
Event	7	Rig-Up Equipment	4/26/2017	14:30:00	USER					Hard line w/ standpipe to floor, water hose to upright, bulk hose to silo
Event	8	Pre-Job Safety Meeting	4/26/2017	16:30:00	USER					All HES personnel, rig crew, and company rep
Event	9	Start Job	4/26/2017	16:54:00	USER					TD 1689', TP 1672', SJ 45', Mud 10.4 ppg, 12 1/4" OH, 8 5/8" 32# J55 casing
Event	10	Prime Lines	4/26/2017	16:55:33	USER	8.33	2.0	49	2.0	Fresh water
Event	11	Test Lines	4/26/2017	16:57:43	COM5			3039		Pressure held well
Event	12	Pump H2O Spacer	4/26/2017	16:59:43	COM5	8.33	4.0	78	20.0	Returns established
Event	13	Pump Lead Cement	4/26/2017	17:06:33	COM5	12.3	8.0	345	114.4	261 sks, 12.3 ppg, 2.46 yield, 14.17 gal/sk
Event	14	Check weight	4/26/2017	17:10:14	COM5	12.3				Recirc matched mud scales

Event	15	Pump Tail Cement	4/26/2017	17:22:20	COM5	12.8	8.0	280	47.0	121 sks, 12.8 ppg, 2.18 yield, 12.11 gal/sk
Event	16	Shutdown	4/26/2017	17:29:41	USER					Wash up on top of plug
Event	17	Drop Top Plug	4/26/2017	17:31:05	USER					Plug launched
Event	18	Pump Displacement	4/26/2017	17:31:46	COM5	8.33	10.0	620	99.1	Fresh water
Event	19	Slow Rate	4/26/2017	17:43:18	USER	8.33	2.0	360	@ 90	Good returns throughout job
Event	20	Bump Plug	4/26/2017	17:47:09	COM5			392		Approx 40 bbls cement to surface
Event	21	Check Floats	4/26/2017	17:48:01	COM5			920		Floats held – ½ bbl flowback
Event	22	End Job	4/26/2017	17:48:37	COM5					No add hours, no derrick charge, 40 lbs sugar used
Event	23	Pre-Rig Down Safety Meeting	4/26/2017	18:15:00	USER					
Event	24	Rig-Down Equipment	4/26/2017	18:30:00	USER					Unload Freuhauf for next job
Event	25	Pre-Convoy Safety Meeting	4/26/2017	19:45:00	USER					
Event	26	Crew Leave Location	4/26/2017	20:00:00	USER					Thank you for using Halliburton - Ed Deussen and crew