

# HALLIBURTON

iCem<sup>®</sup> Service

**URSA RESOURCES GROUP LLC**

United States of America, COLORADO  
API/UWI #: 05-045-23479-00

**For: Ursa**

Date: Saturday, July 22, 2017

**BMC B 41C-13-07-96 Surface**

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)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	7/22/2017	06:00:00	USER					Requested on Location @ 12:00
Event	2	Pre-convoy Safety Meeting	7/22/2017	08:00:00	USER					
Event	3	Crew Leave Yard	7/22/2017	08:15:00	USER					1 Elite, 1 pickup
Event	4	Arrive at Location	7/22/2017	10:30:00	USER					Rig running casing
Event	5	Assessment of Location	7/22/2017	11:00:00	USER					JSA completed - Customer offered/received SDS - Water test pH 7.0, Cl 0, temp 68 degrees
Event	6	Pre-Rig Up Safety Meeting	7/22/2017	12:00:00	USER					
Event	7	Rig-Up Equipment	7/22/2017	12:15:00	USER					DME iron to ground manifold, standpipe, hardline to wash up container. Water hoses to upright and day tank, bulk hoses to silo.
Event	8	Pre-Job Safety Meeting	7/22/2017	13:00:00	USER					
Event	9	Start Job	7/22/2017	13:32:02	COM5					TD 1900', TP 1878', SJ 45', CSG 8 5/8" 32 LB/FT J55, OH 12 1/4", MUD 10.1 PPG, Rig circulated bottoms up prior to job.
Event	10	Prime Lines	7/22/2017	13:33:15	USER	8.4	30.0	2.0	2.0	Fresh Water
Event	11	Test Lines	7/22/2017	13:36:06	COM5		3051.0			Tested lines to 3051 psi, pressure holding
Event	12	Pump Water Spacer	7/22/2017	13:38:41	COM5	8.4	80.0	4.0	20.0	Fresh Water
Event	13	Check Weight	7/22/2017	13:41:35	COM5	12.3				Density verified via mud cup
Event	14	Pump Lead Cement	7/22/2017	13:45:33	COM5	12.3	240.0	8.0	123.1	281 sks, 12.3 ppg, 2.46 ft <sup>3</sup> /sk, 14.17 gal/sk
Event	15	Pump Tail Cement	7/22/2017	14:01:36	COM5	12.8	240.0	8.0	47.0	121 sks, 12.8 ppg, 2.18 ft <sup>3</sup> /sk, 12.11 gal/sk
Event	16	Slow Rate	7/22/2017	14:04:55	USER	12.8	90.0	5.0	38.0	Slowed rate to finish cement

Event	17	Shutdown	7/22/2017	14:09:14	USER					Cleaned pumps and lines to 4 sided tank, used 40 lbs sugar.
Event	18	Pump Displacement	7/22/2017	14:13:14	COM5	8.4	900.0	10.0	111.7	Fresh water, 35 bbls lead to surface
Event	19	Drop Top Plug	7/22/2017	14:13:19	USER					Verified Plug launch
Event	20	Slow Rate	7/22/2017	14:26:12	USER	8.4	350.0	2.0	101.7	Slow Rate 10 bbls to Calculated Displacement
Event	21	Bump Plug	7/22/2017	14:30:23	COM5		400.0			Plug bumped at 400 psi, brought up to 1110 psi.
Event	22	Check Floats	7/22/2017	14:31:48	USER		1110.0			Floats holding 1/2 bbl back to pump
Event	23	End Job	7/22/2017	14:32:24	COM5					Good returns throughout job, pipe was static during job. 40 lbs sugar used. No add hours.
Event	24	Pre-Rig Down Safety Meeting	7/22/2017	15:30:00	USER					
Event	25	Rig-Down Equipment	7/22/2017	15:40:00	USER					
Event	26	Pre-Convoy Safety Meeting	7/22/2017	16:00:00	USER					
Event	27	Crew Leave Location	7/22/2017	16:15:00	USER					
Event	28	Comment	7/22/2017	16:30:00	USER					Thank you for using Halliburton Cement, Steven Wardell and Crew.