

HALLIBURTON

iCem[®] Service

URSA RESOURCES GROUP II LLC

United States of America, COLORADO

For: URSA

Date: Thursday, December 20, 2018

Boies Ranch 31B-25-2-98 2 Stage Surface PJR

API #: 05-103-12335

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	DH Density (ppg)	Comments
Event	1	Call Out	12/19/2018	21:00:00						Requested on Location @ 04:30
Event	2	Pre-Convoy Safety Meeting	12/19/2018	22:50:00						
Event	3	Crew Leave Yard	12/19/2018	23:00:00						1 Elite, 1 660, 1 pickup
Event	4	Arrive At Loc	12/20/2018	04:30:00						Rig running casing
Event	5	Assessment Of Location Safety Meeting	12/20/2018	04:40:00						JSA completed - Customer offered/received SDS - water test pH 7.0, CI <200, temp 50 degrees
Event	6	Pre-Rig Up Safety Meeting	12/20/2018	05:00:00						
Event	7	Rig-Up Equipment	12/20/2018	05:20:00						DME iron to ground manifold, standpipe to rig Floor, hardline to pit. Water hose to uprights, bulk hoses to Silo and 660, Booster trailer to mud tanks
Event	8	Other	12/20/2018	08:00:00						Rig Circulated 2 hrs prior to cement job at 8 bpm 500 psi. Mud scales calibrated to drinking water prior to job.
Event	9	Pre-Job Safety Meeting	12/20/2018	09:20:00						All HES personnel, rig crew, and company rep.
Event	10	Start Job	12/20/2018	09:49:59						TD 3600', TP 3578.6', SJ 28.43', OH 13.5'', Csg 9 5/8" 36 lb/ft J-55, Mud 9.6 ppg.
Event	11	Fill Lines	12/20/2018	09:50:39		8.33	2	135	5	Fresh Water
Event	12	Test Lines	12/20/2018	09:53:38				3265		Held pressure 2 minutes
Event	13	Pump Spacer	12/20/2018	09:59:07		8.33	4	182	25	Fresh Water
Event	14	Check Weight	12/20/2018	10:04:19						Density verified via mud cup
Event	15	Pump Cement	12/20/2018	10:06:32		12.5	8	450	183.3	Stage 1, 525 sks, 12.5 ppg, 1.96 yield, 10.18 gal/sk

Event	16	Shutdown	12/20/2018	10:31:26					Wash up on plug
Event	17	Drop Plug	12/20/2018	10:33:10					drop 1 st stage plug
Event	18	Pump Displacement	12/20/2018	10:35:05	8.33	10	315	130	Fresh Water 130 bbls
Event	19	Pump Displacement	12/20/2018	10:51:55	9.6	8	760	143.4	9.6 ppg mud. 143.4 bbl
Event	20	Slow Rate	12/20/2018	11:09:41	9.6	2	470	253	Slow Rate 20 bbls displacement
Event	21	Bump Plug	12/20/2018	11:14:14			974	273.4	Plug Bumped at 470 psi, Brought up to 974 psi
Event	22	Check Floats	12/20/2018	11:17:02					Floats held – 1 bbl back to the truck
Event	23	Other	12/20/2018	11:18:42					Good returns throughout job. no sugar used
Event	24	Drop Opening Device For Multiple Stage Cementer	12/20/2018	11:19:51					
Event	25	Open Multiple Stage Cementer	12/20/2018	11:30:38					tool opened @ 390 psi
Event	26	Other	12/20/2018	11:44:00					rig circulated 4 hours, 60 bbl of cement to surface on the first stage
Event	27	Pump Spacer	12/20/2018	14:57:11	8.33	2	105	30	Fresh Water
Event	28	Pump Cement	12/20/2018	15:05:18	12.3	8	400	235.6	540 sks, 12.3 ppg, 2.45 yield, 14,18 gal/sk
Event	29	Shutdown	12/20/2018	15:38:23					
Event	30	Drop Plug	12/20/2018	15:40:36					Drop closing plug
Event	31	Pump Displacement	12/20/2018	15:42:50	8.33	10	710	152.9	Fresh Water
Event	32	Slow Rate	12/20/2018	16:00:01	8.33	2	502	142	Slow rate 20 bbl from displacement
Event	33	Close Multiple Stage Cementer	12/20/2018	16:04:09			1655		Bump @ 502 psi, brought up to 1655 psi.
Event	34	Release Casing Pressure	12/20/2018	16:06:32					check tool, tool closed
Event	35	Pre-Rig Down Safety Meeting	12/20/2018	16:56:19					40 lbs of sugar used, no plug used, 4 add hours
Event	36	Rig-Down Equipment	12/20/2018	17:02:22					70 bbl of cement to surface.

Event	37	Pre-Convoy Safety Meeting	12/20/2018	17:43:24	
Event	38	Crew Leave Location	12/20/2018	17:45:28	Thanks for using Halliburton Cement, Chris Martinez and crew.