

# HALLIBURTON

iCem<sup>®</sup> Service

**URSA RESOURCES GROUP II LLC**

United States of America, COLORADO

**For: Hans Wychgram**

Date: Tuesday, August 28, 2018

**Boies Ranch B-19N 23A-19-2-97 2-Stage Surface PJR**

API# 05-103-12307-00

Sincerely,

**Grand Junction Cement Engineering**

## 2.0 Real-Time Job Summary

### 2.1 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	8/27/2018	11:00:00	USER					RIG CALLED AT 1230 PUSHED US BACK TO ON LOCATION AT 2130
Event	2	Pre-Convoy Safety Meeting	8/27/2018	17:30:00	USER					JOURNEY MANAGEMENT COMPLETE, AS WELL AS JSA
Event	3	Crew Leave Yard	8/27/2018	18:00:00	USER					TOOL HAND WAS ON LOCATION FROM 0500-1700 ON 8-27-18
Event	4	Arrive At Loc	8/27/2018	20:30:00	USER					JOURNEY MANAGEMENT CLOSED OUT. RIG HAD ABOUT 500 FEET OF CASING TO RUN
Event	5	Assessment Of Location Safety Meeting	8/27/2018	20:45:00	USER					
Event	6	Pre-Rig Up Safety Meeting	8/27/2018	21:00:00	USER					JSA COMPLETE
Event	7	Rig-Up Equipment	8/27/2018	21:10:00	USER					BOOSTER PUMP FOR TREATED WATER FOR DISPLACEMENT, AND MUD. 1 ELITE, 2 SILOS, 1 660
Event	8	Other	8/27/2018	21:50:00	USER					WATER TEST: PH-7, TEMP- 68, CL-0 TP- 9 5/8 36# J55 SET @ 3623, TD- 3645, FC- 3578, HOLE- 13.5, MUD#- 9.3, MSC SET @ 1942
Event	9	Pre-Job Safety Meeting	8/27/2018	23:30:00	USER					JSA COMPLETE
Event	10	Start Job	8/28/2018	00:12:00	COM5					
Event	11	Prime Pumps	8/28/2018	00:13:07	COM5					FRESH WATER

Event	12	Test Lines	8/28/2018	00:18:42	COM5			3634.00		3634 PSI
Event	13	Pump Spacer 1	8/28/2018	00:22:04	COM5	8.33	2.00	280.0	20.0	FRESH WATER
Event	14	Pump Cement	8/28/2018	00:31:45	COM5	12.5	8.00	408	201.8	578 SKS VERSACEM, 12.5 PPG, 1.96 FT3/SK, 10.18 GAL/SK
Event	15	Shutdown	8/28/2018	01:01:55	COM5					TO LOAD PLUG
Event	16	Drop Plug	8/28/2018	01:09:46	COM5					PLUG LOADED BELOW THE HEAD PORT, AWAY
Event	17	Pump Displacement	8/28/2018	01:09:53	COM5	8.40	8.00	750.0	276.5	136 BBLS TREATED WATER, 140 BBLS 9.3 PPG MUD
Event	18	Slow Rate	8/28/2018	01:53:19	COM5	8.40	2.00	560.00	266.0	TO BUMP PLUG
Event	19	Bump Plug	8/28/2018	01:55:53	COM5	8.40	2.00	540.0	276.5	PLUG BUMPED
Event	20	Check Floats	8/28/2018	01:58:27	COM5			1180.00		FLOATS HELD, 1 BBL BACK TO TRUCK
Event	21	Open Multiple Stage Cementer	8/28/2018	02:10:59	COM5	8.40	2.00	820.0	30.0	DROP FREE FALL DEVICE, WAITED 5 MINS, PRESSURED UP TO 820 PSI TOOL OPENED
Event	22	Circulate Well	8/28/2018	02:11:49	COM5	8.40	8.0	200.0	30.0	CIRCULATED 30 BBLS OF FRESH WATER/ MUD THEN TURNED OVER TO RIG TO CIRCULATE, ABOUT 50 BBLS OF CMT WAS CIRCULATED TO SURFACE. GOOD RETURNS THROUGHOUT STAGE.
Event	23	Other	8/28/2018	02:20:00	USER					WAIT ON 1ST STAGE CMT 4 HOURS
Event	24	Prime Pumps	8/28/2018	06:53:36	COM5					FRESH WATER
Event	25	Test Lines	8/28/2018	06:56:43	COM5	8.40	0.00	3636.00		3636 PSI
Event	26	Pump Spacer 1	8/28/2018	06:59:33	COM5	8.40	2.00	110.0	20.00	FRESH WATER
Event	27	Pump Cement	8/28/2018	07:09:21	COM5	12.30	8.00	350.0	294.5	672 SKS VARICEM, 12.3 PPG, 2.45 FT3/SK, 14.18 GAL/SK
Event	28	Shutdown	8/28/2018	07:50:50	COM5					TO DROP CLOSING PLUG
Event	29	Drop Plug	8/28/2018	07:56:09	COM5					USING POSITIVE DISPLACEMENT PLUG AWAY

Event	30	Pump Displacement	8/28/2018	07:57:13	COM5	8.40	8.00	620.0	150.1	DISPLACEMENT WATER FROM DAY TANK
Event	31	Slow Rate	8/28/2018	08:17:45	USER	8.40	2.20	436.00	140.0	TO BUMP CLOSING PLUG
Event	32	Bump Plug	8/28/2018	08:20:32	USER	8.40	2.00	425.0	150.1	PLUG BUMPED
Event	33	Check Tool Closed	8/28/2018	08:22:52	USER			1447.00		TOOL CLOSED BUMPED 1000 PSI OVER , 110 BBLs OF CMT TO SURFACE
Event	34	End Job	8/28/2018	08:25:00	USER					GOOD RETURNS THROUGHOUT JOB, NO PIPE MOVEMENT
Event	35	Post-Job Safety Meeting (Pre Rig-Down)	8/28/2018	08:30:00	USER					JSA COMPLETE
Event	36	Crew Leave Location	8/28/2018	10:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW