

# HALLIBURTON

iCem<sup>®</sup> Service

## **URSA RESOURCE GROUP II LLC**

**For: Hans Wychgram**

Job Date: Tuesday, September 20, 2016

**MRB 31D-17-07-95 Surface**

API# 05-045-22899-00

Sincerely,

**Grand Junction Cement Department**

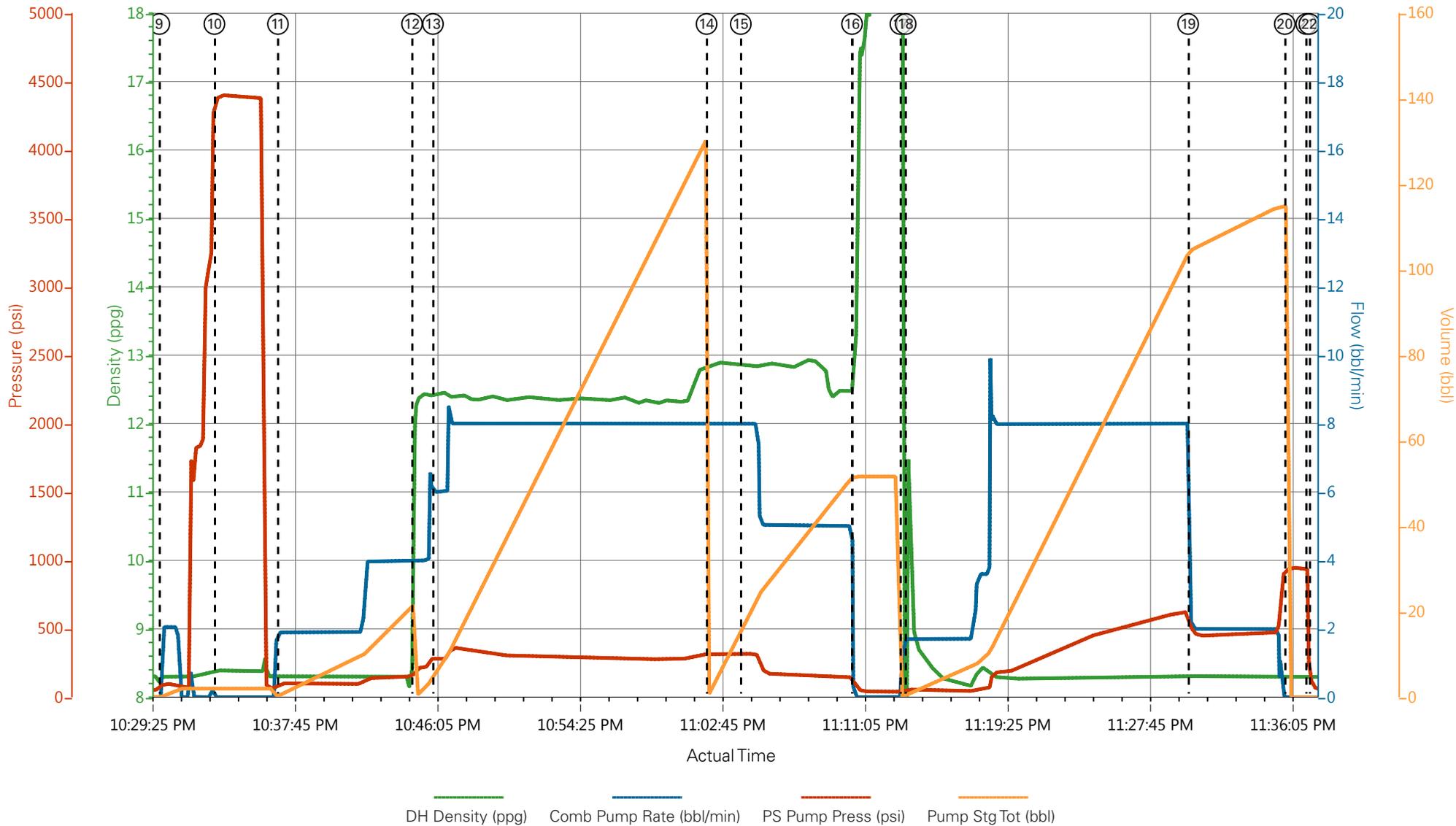
## 1.0 Real-Time Job Summary

### 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	9/20/2016	13:30:00	USER					Requested on Location @ 19:30
Event	2	Pre-Convoy Safety Meeting	9/20/2016	15:30:00	USER					All HSE Present
Event	3	Crew Leave Yard	9/20/2016	15:35:00	USER					1 Elite, 1 660, 1 pickup
Event	4	Arrive at Location from Service Center	9/20/2016	16:30:00	USER					Rig Running Casing
Event	5	Assessment Of Location Safety Meeting	9/20/2016	16:40:00	USER					JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 68 degrees
Event	6	Pre-Rig Up Safety Meeting	9/20/2016	20:00:00	USER					All HSE Present
Event	7	Rig-Up Equipment	9/20/2016	20:05:00	USER					1 hardline and standpipe, water hoses to upright and day tank, bulk hoses to silo.
Event	8	Pre-Job Safety Meeting	9/20/2016	21:12:43	USER					All HES personnel, rig crew, and company rep
Event	9	Start Job	9/20/2016	22:30:00	USER					TD 1897', TP 1876', SJ 45', OH 12.25'', Csg 8.625'' 32 lb/ft J-55, Mud 10 ppg.
Event	10	Test Lines	9/20/2016	22:33:13	COM6	8.4	.5	4400	2.0	Held pressure 2 minutes no leaks
Event	11	Pump Spacer 1	9/20/2016	22:36:56	COM6	8.4	2	150	20	20 bbl Fresh water
Event	12	Pump Lead Cement	9/20/2016	22:44:46	COM6	12.3	8	340	126.2	288 Sks 12.3 ppg 2.46 yield 14.17 gal/sk

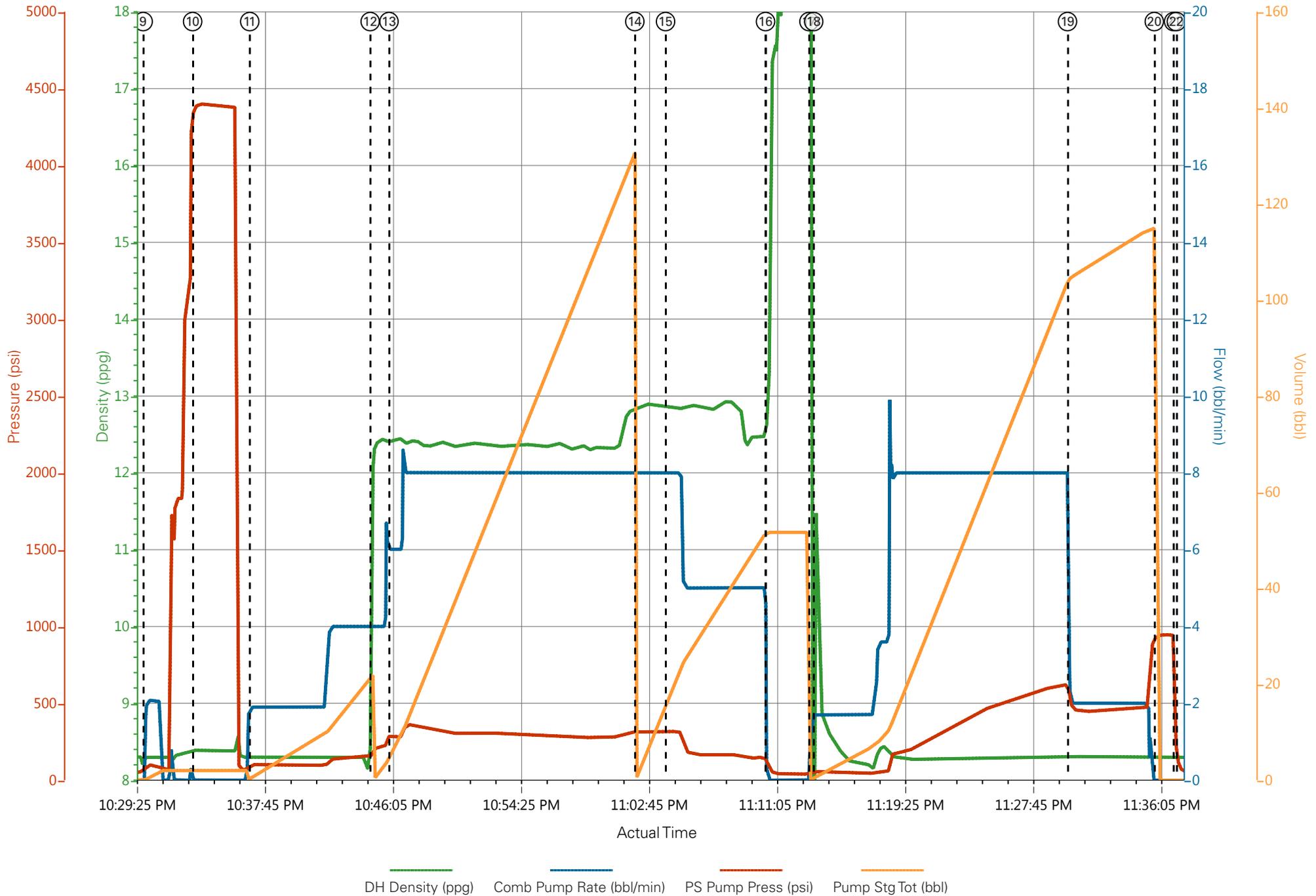
Event	13	Check weight	9/20/2016	22:46:00	COM6	12.3				Verified with Mud Scales
Event	14	Pump Tail Cement	9/20/2016	23:02:00	COM6	12.8	8	310	46.6	120 Sks 12.8 ppg 2.18 yield 12.11 gal/sk
Event	15	Check weight	9/20/2016	23:04:00	COM6	12.8				Verified with Mud Scales
Event	16	Shutdown	9/20/2016	23:10:30	USER					Wash up on top of plug
Event	17	Pump Displacement	9/20/2016	23:13:20	COM6	8.4	8	625	111.5	Fresh Water
Event	18	Drop Top Plug	9/20/2016	23:13:38	USER					Verify Plug Launched
Event	19	Slow Rate	9/20/2016	23:30:09	USER	8.4	2.00	497.00	101.5	Slow Rate 10 bbls to Calculated Displacement
Event	20	Bump Plug	9/20/2016	23:35:48	COM6					Plug Bumped at 470 psi, Brought up to 950 psi
Event	21	Check Floats	9/20/2016	23:37:04	USER					Floats held – ½ bbl back to the truck
Event	22	End Job	9/20/2016	23:37:14	USER					Good Returns Throughout job, Pipe was not reciprocated during cement, 35 bbls of Cement to surface
Event	23	Pre-Rig Down Safety Meeting	9/20/2016	23:45:00	USER					40 lbs sugar, No add hours, bottom plug not used
Event	24	Rig-Down Equipment	9/20/2016	23:46:00	USER					All HSE Present
Event	25	Pre-Convoy Safety Meeting	9/20/2016	23:47:00	USER					All HSE Present
Event	26	Crew Leave Location	9/20/2016	23:55:00	USER					Thank you for using Halliburton – Ryan Muhlestein and crew.

# URSA MRB 31D-17-07-95 8 5/8" SURFACE CASING



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|--|--------------------------|---------------------|--------------------------------|------------------------------|
| ① Call Out                               | ⑦ Rig-Up Equipment       | ⑬ Check weight      | ⑰ Slow Rate                    | 25 Pre-Convoy Safety Meeting |
| ② Pre-Convoy Safety Meeting              | ⑧ Pre-Job Safety Meeting | ⑭ Pump Tail Cement  | 20 Bump Plug                   | 26 Crew Leave Location       |
| ③ Crew Leave Yard                        | ⑨ Start Job              | ⑮ Check weight      | 21 Check Floats                |                              |
| ④ Arrive at Location from Service Center | ⑩ Test Lines             | ⑯ Shutdown          | 22 End Job                     |                              |
| ⑤ Assessment Of Location Safety Meeting  | ⑪ Pump Spacer 1          | ⑰ Pump Displacement | 23 Pre-Rig Down Safety Meeting |                              |
| ⑥ Pre-Rig Up Safety Meeting              | ⑫ Pump Lead Cement       | ⑱ Drop Top Plug     | 24 Rig-Down Equipment          |                              |

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DH Density (ppg)    Comb Pump Rate (bbl/min)    PS Pump Press (psi)    Pump Stg Tot (bbl)