

# HALLIBURTON

iCem<sup>®</sup> Service

## **URSA RESOURCES GROUP II LLC**

**For: Hans Wychgram**

Date: Thursday, June 29, 2017

**BMC B 43A-13-07-96 Surface PJR**

API# 05-045-23483-00

Sincerely,

**Grand Junction Cement Engineering**

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Driv-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	6/28/2017	20:30:00	USER					HES crew called out at 2030 on 6/28/17, requested on location at 0230 on 6/29/17
Event	2	Depart Yard Safety Meeting	6/28/2017	20:45:00	USER					HES crew discuss the hazards of driving to location
Event	3	Depart from Service Center or Other Site	6/28/2017	21:00:00	USER					HES crew depart from yard to location
Event	4	Arrive At Loc	6/29/2017	02:00:00	USER					Rig running casing
Event	5	Assessment Of Location Safety Meeting	6/29/2017	02:10:00	USER					Customer was offered/received MSDS
Event	6	Pre-Rig Up Safety Meeting	6/29/2017	02:15:00	USER					Hes crew discuss the hazards of rigging up equipment
Event	7	Rig-Up Equipment	6/29/2017	02:20:00	USER					Rig up all iron and water hoses
Event	8	Rig-Up Completed	6/29/2017	03:20:00	USER	4.00	8.43	0.00	0.0	Rig-up Complete
Event	9	Pre-Job Safety Meeting	6/29/2017	03:50:00	USER	5.00	8.41	0.00	0.0	Hes and rig crew discuss the hazards of rigging up the rig floor and pumping the job
Event	10	Well Informaiton	6/29/2017	03:51:00	USER	4.00	8.41	0.00	0.0	TD: __1815__, TP __1796__, SJ: __44__, OH: __12.25__, Casing: Size/Weight/Grade: __8.625__32__J55__, Previous Casing Shoe: __0__
Event	11	Rig Info	6/29/2017	03:52:00	USER	4.00	8.41	0.00	0.0	Rig Circulation: __200__ bbls, Rate __8__ bbl/min, Pressure __250__ PSI, MW __10.1__ ppg, Pipe Movment __No__, Rat Hole Length __19__

Event	12	Start Job	6/29/2017	04:14:00	USER	73.00	8.48	2.00	0.9	Start Job, pump 5 bbls of h2o ahead to fill pumps and lines
Event	13	Pressure Test	6/29/2017	04:16:44	USER	1536.00	8.30	0.00	5.1	500 psi low pressure kickout test
Event	14	Pressure Test	6/29/2017	04:17:18	USER	3648.00	8.35	0.00	5.1	Pressure test hes iron to 3500 psi
Event	15	Pump Water	6/29/2017	04:23:13	USER	24.00	8.33	2.00	0.1	Pump 20 bbls of h2o spacer
Event	16	Pump Lead Cement	6/29/2017	04:26:40	USER	207.00	8.32	6.00	0.2	Pump 266 sks 119.6 bbls of Varicem lead at 12.3 ppg, 2.46 ft3/sack, 14.17 gal/sack at 8 bpm
Event	17	Pump Tail Cement	6/29/2017	04:45:21	USER	154.00	12.31	6.00	113.0	Pump 121 sks 47 bbls of Varicem tail at 12.8 ppg, 2.18 ft3/sack, 12.11 gal/sack at 8 bpm
Event	18	Shutdown	6/29/2017	04:54:49	USER	166.00	13.05	1.30	69.3	Shutdown
Event	19	Drop Top Plug	6/29/2017	04:56:34	USER	14.00	14.53	0.00	69.3	Drop HES top plug, customer witnessed
Event	20	Pump Displacement	6/29/2017	04:57:47	USER	18.00	14.26	2.70	0.1	Pump 106.7 bbls of h2o displacement
Event	21	Slow Rate	6/29/2017	05:10:14	USER	503.00	8.29	3.60	99.4	Slow Rate to 3 bpm last 10 bbls of H2O displacement
Event	22	Bump Plug	6/29/2017	05:12:41	USER	451.00	8.29	2.90	106.8	Bump Plug, go 500 psi over final circulating psi
Event	23	Check Floats	6/29/2017	05:16:12	USER	1450.00	8.31	0.00	107.1	Check Floats, 1 bbls back to HES cement pump
Event	24	End Job	6/29/2017	05:20:00	USER	9.00	8.29	0.00	107.1	End Job, final circulating pressure was 446 psi
Event	25	Pre-Rig Down Safety Meeting	6/29/2017	05:25:00	USER	4.00	8.29	0.00	128.9	HES and rig crew discuss the hazards of rigging down equipment
Event	26	Rig-Down Equipment	6/29/2017	05:30:00	USER					Rig-Down equipment
Event	27	Rig-Down Completed	6/29/2017	06:00:00	USER					Rig-Down complete
Event	28	Pre-Convoy Safety Meeting	6/29/2017	06:15:00	USER					HES crew discuss the hazards of driving
Event	29	Other	6/29/2017	06:16:00	USER					Items being returned: 60 Pounds of Sugar
Event	30	Well Information	6/29/2017	06:17:00	USER					H2O Spacer: __20__ bbl TOS __surface__ Lead Cement: __119.6__ bbl, __266__ sks,

TOC\_\_surface\_\_ Tail Cement: \_\_47\_\_ bbl,  
\_\_121\_\_ sks, TOC\_\_1192\_\_  
Displacement: \_\_106.7\_\_ bbl  
CMT left in Pipe\_\_44\_\_ Reason\_\_shoe  
joint\_\_

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Event	31	Job Complete	6/29/2017	06:30:00	USER	Job complete, 40 bbls of lead back to surface, Thank you
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