

# HALLIBURTON

iCem<sup>®</sup> Service

## **URSA RESOURCES GROUP**

**For: Hans Wychgram**

Date: Thursday, July 14, 2016

**Tompkins 21C-08-07-95 Surface**

API# 05-045-22822-00

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)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	7/13/2016	17:30:00	USER					O/L time 2330
Event	2	Pre-Convoy Safety Meeting	7/13/2016	18:45:00	USER					
Event	3	Crew Leave Yard	7/13/2016	19:00:00	USER					1 Elite, 1 pickup - 1 bodyload already on location
Event	4	Arrive At Location	7/13/2016	20:30:00	USER					Rig still running casing
Event	5	Assessment Of Location Safety Meeting	7/13/2016	20:45:00	USER					JSA completed - customer offered/received SDS - water test pH 6.5, Cl 0, temp 72 degrees
Event	6	Pre-Rig Up Safety Meeting	7/13/2016	21:00:00	USER					
Event	7	Rig-Up Equipment	7/13/2016	21:15:00	USER					Hard line to floor w/ standpipe, water hose to upright, bulk hoses to bodyload and silo
Event	8	Pre-Job Safety Meeting	7/13/2016	22:20:00	USER					All HES personnel, rig crew, and company rep
Event	9	Start Job	7/13/2016	22:38:27	COM5					TD 1875', TP 1855', SJ 45', Mud 9.5#, 12 1/4" OH, 8 5/8" 32# J-55 casing
Event	10	Prime Lines	7/13/2016	22:39:43	COM5	8.33	2.0	37	2.0	Fresh water
Event	11	Test Lines	7/13/2016	22:42:40	COM5			3137		Pressure held well
Event	12	Pump H2O Spacer	7/13/2016	22:44:28	COM5	8.33	4.0	90	20.0	Fresh water - returns established
Event	13	Pump Lead Cement	7/13/2016	22:53:51	COM5	12.3	8.0	260	126.6	289 sks, 12.3 ppg, 2.46 yield, 14.17 gal/sk
Event	14	Check weight	7/13/2016	22:56:01	COM5	12.3				Recirc matched mud scales

Event	15	Pump Tail Cement	7/13/2016	23:11:26	COM5	12.8	8.0	230	46.6	120 sks, 12.8 ppg, 2.18 yield, 12.11 gal/sk
Event	16	Shutdown	7/13/2016	23:19:18	USER					Wash up on top of plug
Event	17	Drop Top Plug	7/13/2016	23:23:00	COM5					Rig supplied non-rotating plug
Event	18	Pump Displacement	7/13/2016	23:24:12	COM5	8.33	8.0	515	110.2	Fresh water
Event	19	Slow Rate	7/13/2016	23:39:32	USER	8.33	2.0	360	10.0	Good returns throughout job
Event	20	Bump Plug	7/13/2016	23:44:33	COM5			394		Approx 36 bbls cement to surface
Event	21	Check Floats	7/13/2016	23:46:24	COM5			912		Floats held – ½ bbl flowback
Event	22	End Job	7/13/2016	23:47:35	COM5					60 lbs sugar, no HES plug
Event	23	Pre-Rig Down Safety Meeting	7/14/2016	00:00:00	USER					
Event	24	Rig-Down Equipment	7/14/2016	00:15:00	USER					
Event	25	Pre-Convoy Safety Meeting	7/14/2016	00:45:00	USER					
Event	26	Crew Leave Location	7/14/2016	01:00:00	USER					Thank you for using Halliburton - Ed Deussen and crew