

# HALLIBURTON

iCem<sup>®</sup> Service

## **URSA RESOURCES GROUP**

**For: Hans Wychgram**

Date: Tuesday, July 12, 2016

**Tompkins 31A-08-07-95 Surface**

API# 05-045-22471-00

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<br><i>(ppg)</i> | Comb Pump Rate<br><i>(bbl/min)</i> | PS Pump Press<br><i>(psi)</i> | Pump Stg Tot<br><i>(bbl)</i> | Comments  |
|-------|----------|---------------------------------------|-----------|----------|--------|----------------------------|------------------------------------|-------------------------------|------------------------------|---|
| Event | 1        | Call Out                              | 7/12/2016 | 00:00:00 | USER   |                            |                                    |                               |                              | O/L time 0700   |
| Event | 2        | Pre-Convoy Safety Meeting             | 7/12/2016 | 01:45:00 | USER   |                            |                                    |                               |                              |   |
| Event | 3        | Crew Leave Yard                       | 7/12/2016 | 02:00:00 | USER   |                            |                                    |                               |                              | 1 Freuhauf, 1 pickup - Tiger pump already on location   |
| Event | 4        | Arrive at Location                    | 7/12/2016 | 03:15:00 | USER   |                            |                                    |                               |                              | Rig still in hole with drill pipe   |
| Event | 5        | Assessment Of Location Safety Meeting | 7/12/2016 | 03:30:00 | USER   |                            |                                    |                               |                              | JSA completed - customer offered/received SDS - water test pH 6.5, Cl 0, temp 76 degrees  |
| Event | 6        | Pre-Rig Up Safety Meeting             | 7/12/2016 | 11:15:00 | USER   |                            |                                    |                               |                              |   |
| Event | 7        | Rig-Up Equipment                      | 7/12/2016 | 11:30:00 | USER   |                            |                                    |                               |                              | Hard line to floor w/ standpipe, water hoses to upright and day tank, bulk hose to silo   |
| Event | 8        | Other                                 | 7/12/2016 | 11:30:01 | USER   |                            |                                    |                               |                              | Rig had cave in during drilling, took care to circulate, clean hole prior to running casing, circulate while landing casing, and to condition the mud in hole prior to cement job - determined to add 50 bbls lead cement to program to cover losses occurred during cave in and clean up |
| Event | 9        | Pre-Job Safety Meeting                | 7/12/2016 | 12:45:00 | USER   |                            |                                    |                               |                              | All HES personnel, rig crew, and company rep  |
| Event | 10       | Start Job                             | 7/12/2016 | 14:04:00 | COM5   |                            |                                    |                               |                              | TD 1778', TP 1758', SJ 41', Mud 9.5#, 12 1/4" OH, 8 5/8" 32# J-55 casing  |
| Event | 11       | Prime Lines                           | 7/12/2016 | 14:05:10 | USER   | 8.33                       | 2.0                                | 36                            | 2.0                          | Fresh water   |

|       |    |                             |           |          |      |      |     |      |       |   |
|-------|----|-----------------------------|-----------|----------|------|------|-----|------|-------|---|
| Event | 12 | Test Lines                  | 7/12/2016 | 14:08:19 | COM5 |      |     | 3364 |       | Pressure held well  |
| Event | 13 | Pump H2O Spacer             | 7/12/2016 | 14:09:56 | COM5 | 8.33 | 4.0 | 89   | 20.0  | Fresh water   |
| Event | 14 | Pump Lead Cement            | 7/12/2016 | 14:18:57 | COM5 | 12.3 | 8.0 | 190  | 167.4 | 382 sks, 12.3 ppg, 2.46 yield, 14.17 gal/sk                   |
| Event | 15 | Check weight                | 7/12/2016 | 14:21:51 | COM5 | 12.3 |     |      |       | Recirc matched mud scales                                     |
| Event | 16 | Pump Tail Cement            | 7/12/2016 | 14:45:45 | COM5 | 12.8 | 8.0 | 205  | 46.6  | 120 sks, 12.8 ppg, 2.18 yield, 12.11 gal/sk                   |
| Event | 17 | Shutdown                    | 7/12/2016 | 14:53:50 | USER |      |     |      |       | Wash up on top of plug  |
| Event | 18 | Drop Top Plug               | 7/12/2016 | 14:57:08 | COM5 |      |     |      |       | Rig supplied non-rotating plug                                |
| Event | 19 | Pump Displacement           | 7/12/2016 | 14:58:57 | COM5 | 8,33 | 8.0 | 520  | 104.6 | Fresh water   |
| Event | 20 | Slow Rate                   | 7/12/2016 | 15:13:46 | USER | 8.33 | 2.0 | 370  | 10.0  | Good returns throughout job                                   |
| Event | 21 | Bump Plug                   | 7/12/2016 | 15:19:00 | USER |      |     | 422  |       | 40 bbls cement to surface                                     |
| Event | 22 | Check Floats                | 7/12/2016 | 15:22:12 | USER |      |     | 980  |       | Floats held – ½ bbl flowback                                  |
| Event | 23 | End Job                     | 7/12/2016 | 15:23:06 | COM5 |      |     |      |       | 1 add hour, 60 lbs sugar, no derrick charge, no HES plug used |
| Event | 24 | Pre-Rig Down Safety Meeting | 7/12/2016 | 15:30:00 | USER |      |     |      |       |   |
| Event | 25 | Rig-Down Equipment          | 7/12/2016 | 15:45:00 | USER |      |     |      |       |   |
| Event | 26 | Pre-Convoy Safety Meeting   | 7/12/2016 | 16:15:00 | USER |      |     |      |       |   |
| Event | 27 | Crew Leave Location         | 7/12/2016 | 16:30:00 | USER |      |     |      |       | Thank you for using Halliburton - Ed Deussen and crew         |