

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Terra**

Date: Friday, July 06, 2018

**PA 422-26 Surface PJR**

API #: 05-045-23716

Sincerely,

**Grand Junction Cement Engineering**

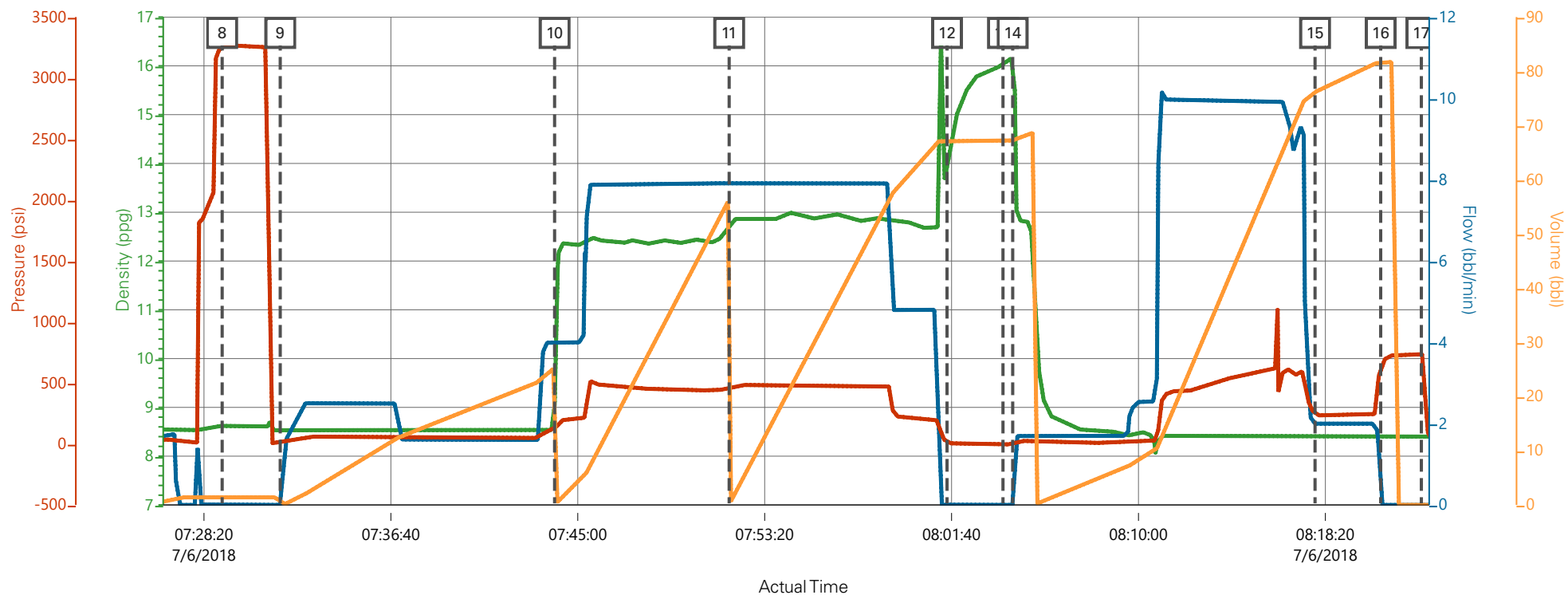
## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

| Type  | Seq. No. | Graph Label                           | Date     | Time     | Source | DH Density<br>(ppg) | Comb Pump Rate<br>(bbl/min) | PS Pump Press<br>(psi) | Pump Stg Tot<br>(bbl) | Comments   |
|-------|----------|---------------------------------------|----------|----------|--------|---------------------|-----------------------------|------------------------|-----------------------|--|
| Event | 1        | Call Out                              | 7/6/2018 | 00:01:00 | USER   |                     |                             |                        |                       |  |
| Event | 2        | Pre-Convoy Safety Meeting             | 7/6/2018 | 02:10:00 | USER   |                     |                             |                        |                       | JOURNEY MANAGEMENT COMPLETE, AS WELL AS JSA  |
| Event | 3        | Crew Leave Yard                       | 7/6/2018 | 02:30:00 | USER   |                     |                             |                        |                       |  |
| Event | 4        | Arrive At Loc                         | 7/6/2018 | 04:00:00 | USER   |                     |                             |                        |                       | JOURNEY MANAGEMENT CLOSED OUT.   |
| Event | 5        | Assessment Of Location Safety Meeting | 7/6/2018 | 04:30:00 | USER   |                     |                             |                        |                       |  |
| Event | 6        | Other                                 | 7/6/2018 | 04:30:08 | USER   |                     |                             |                        |                       | WATER TEST: PH- 6.7, TEMP- 68, CL-0 TP- 1124.45, TD-1135, F.C- 1084.09, MUD#-9.3, HOLE- 13 1/2 |
| Event | 7        | Pre-Rig Up Safety Meeting             | 7/6/2018 | 05:00:00 | USER   |                     |                             |                        |                       | JSA COMPLETE   |
| Event | 8        | Rig-Up Equipment                      | 7/6/2018 | 05:15:00 | USER   |                     |                             |                        |                       |  |
| Event | 9        | Pre-Job Safety Meeting                | 7/6/2018 | 07:10:00 | USER   |                     |                             |                        |                       | JSA COMPLETE   |
| Event | 10       | Start Job                             | 7/6/2018 | 07:24:52 | COM5   |                     |                             |                        |                       |  |
| Event | 11       | Test Lines                            | 7/6/2018 | 07:29:09 | COM5   | 8.33                | 0.00                        | 3304.00                | 1.40                  | 3304 PSI   |
| Event | 12       | Pump Spacer 1                         | 7/6/2018 | 07:31:44 | COM5   | 8.33                | 4.00                        | 149.00                 | 20.00                 | FRESH WATER  |
| Event | 13       | Pump Lead Cement                      | 7/6/2018 | 07:43:58 | COM5   | 12.3                | 8.00                        | 450.0                  | 53                    | 125 SKS VARICEM, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK   |

|       |    |  |          |          |      |      |      |        |      |  |
|-------|----|--|----------|----------|------|------|------|--------|------|--|
| Event | 14 | Pump Tail Cement                       | 7/6/2018 | 07:51:45 | COM5 | 12.8 | 8.00 | 461.00 | 65.8 | 175 SKS VARICEM, 12.8 PPG, 2.38 FT3/SK, 13.77 GAL/SK         |
| Event | 15 | Shutdown                               | 7/6/2018 | 08:01:28 | COM5 |      |      |        |      | TO DROP TOP PLUG   |
| Event | 16 | Drop Top Plug                          | 7/6/2018 | 08:03:58 | COM5 |      |      |        |      | AWAY   |
| Event | 17 | Pump Displacement                      | 7/6/2018 | 08:04:24 | COM5 | 8.33 | 10.0 | 620.0  | 83.8 | FRESH WATER  |
| Event | 18 | Slow Rate                              | 7/6/2018 | 08:17:57 | COM5 | 8.33 | 2.00 | 248.00 | 73.0 | TO BUMP PLUG   |
| Event | 19 | Bump Plug                              | 7/6/2018 | 08:20:59 | COM5 | 8.33 | 2.00 | 255.0  | 83.8 | PLUG BUMPED, 17 GOOD BBLS OF CMT TO SURFACE                  |
| Event | 20 | CHECK FLOATS                           | 7/6/2018 | 08:22:37 | COM5 |      |      | 753.00 |      | FLOATS HELD, 0.5 BBLS BACK TO TRUCK                          |
| Event | 21 | End Job                                | 7/6/2018 | 08:23:59 | COM5 |      |      |        |      | GOOD CIRCULATION THROUGHOUT JOB, NO PIPE MOVEMENT            |
| Event | 22 | Post-Job Safety Meeting (Pre Rig-Down) | 7/6/2018 | 08:45:00 | USER |      |      |        |      | JSA COMPLETE   |
| Event | 23 | Crew Leave Location                    | 7/6/2018 | 09:20:00 | USER |      |      |        |      | THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW |

# TEP - TRI STATE TRUCKING PA 422-26 - 9 5/8 SURFACE CASING



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

| Description          | Actual Time | DH Density (ppg) | Comb Pump Rate (bbl/min) | PS Pump Press (psi) | Pump Stg Tot (bbl) |
|----------------------|-------------|------------------|--------------------------|---------------------|--------------------|
| 8 Test Lines         | 07:29:09    | 8.62             | 0.00                     | 3259.00             | 1.40               |
| 9 Pump Spacer 1      | 07:31:44    | 8.53             | 0.00                     | 7.00                | 1.40               |
| 10 Pump Lead Cement  | 07:43:58    | 9.05             | 4.00                     | 126.00              | 0.00               |
| 11 Pump Tail Cement  | 07:51:45    | 12.71            | 7.90                     | 461.00              | 0.10               |
| 12 Shutdown          | 08:01:28    | 13.96            | 0.00                     | 14.00               | 67.20              |
| 13 Drop Top Plug     | 08:03:58    | 16.05            | 0.00                     | -3.00               | 67.20              |
| 14 Pump Displacement | 08:04:24    | 16.16            | 0.00                     | -3.00               | 67.20              |
| 15 SLOW RATE         | 08:17:52    | 8.40             | 2.00                     | 248.00              | 76.20              |
| 16 Bump Plug         | 08:20:48    | 8.42             | 0.00                     | 636.00              | 81.70              |
| 17 CHECK FLOATS      | 08:22:37    | 8.42             | 0.00                     | 736.00              | 0.00               |

▼ **HALLIBURTON** | iCem® Service

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Edit

Customer : TERRA ENERGY PARTNERS  
Representative : DARRELL LEATHERMAN

Job Date : 7/6/2018  
Sales Order # : 904969627

Well : TRI STATE TRUCKING  
ELITE 1 : KYLE ROGERS

# TEP - TRI STATE TRUCKING PA 422-26 - 9 5/8 SURFACE CASING

