

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Wednesday, November 22, 2017

PA 342-26 Surface PJR

API# 05-045-23661-00

Sincerely,

Grand Junction Cement Engineering

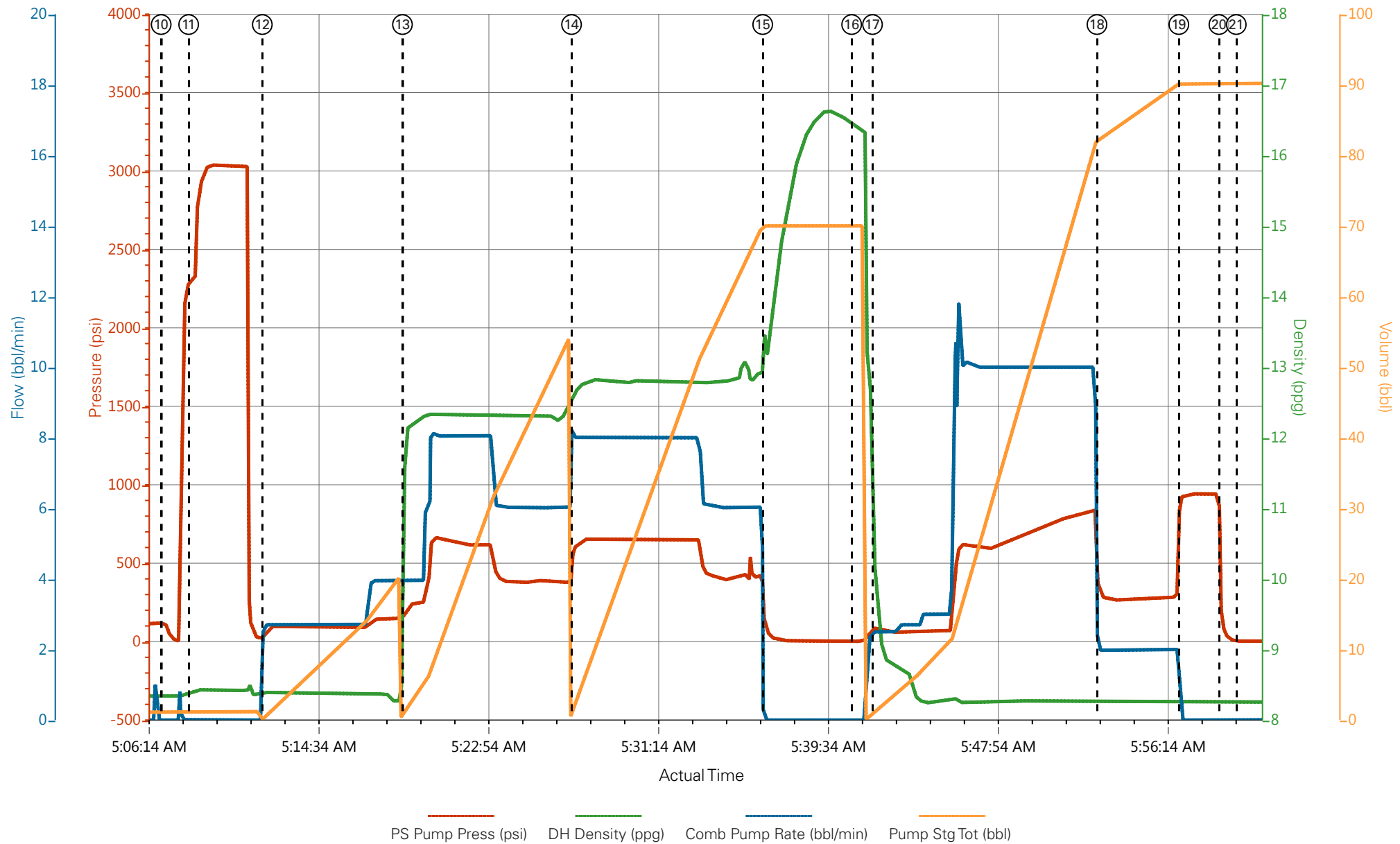
2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | DH Density (ppg) | Comb Pump Rate (bbl/min) | PS Pump Press (psi) | Pump Stg Tot (bbl) | Comments |
|-------|----------|---------------------------------------|------------|----------|--------|---------------------|-----------------------------|------------------------|-----------------------|--|
| Event | 1 | Call Out | 11/21/2017 | 21:30:00 | USER | | | | | |
| Event | 2 | Pre-Convoy Safety Meeting | 11/21/2017 | 22:55:00 | USER | | | | | |
| Event | 3 | Crew Leave Yard | 11/21/2017 | 23:00:00 | USER | | | | | |
| Event | 4 | Arrive At Loc | 11/22/2017 | 00:30:00 | USER | | | | | |
| Event | 5 | Assessment Of Location Safety Meeting | 11/22/2017 | 00:35:00 | USER | | | | | |
| Event | 6 | Spot Equipment | 11/22/2017 | 00:45:00 | USER | | | | | |
| Event | 7 | Pre-Rig Up Safety Meeting | 11/22/2017 | 00:50:00 | USER | | | | | |
| Event | 8 | Rig-Up Equipment | 11/22/2017 | 01:00:00 | USER | | | | | |
| Event | 9 | Pre-Job Safety Meeting | 11/22/2017 | 04:30:00 | USER | | | | | |
| Event | 10 | Start Job | 11/22/2017 | 05:07:00 | COM5 | | | | | TD: 1155 TP: 1145 SJ: 44.18' MW: 9.1 PPG 9 5/8" 32.3#/FT CSG IN 13 1/2" OH WATER TEST: PH: 7 POTASSIUM: 700 CHLORIDES: 0 SULFATES: <200 TEMP: 58 DEG |
| Event | 11 | Test Lines | 11/22/2017 | 05:08:20 | COM5 | 8.33 | 0.00 | 3000.00 | 2.0 | 3000 PSI TEST |
| Event | 12 | Pump Spacer 1 | 11/22/2017 | 05:11:57 | COM5 | 8.33 | 4.00 | 180.00 | 20.0 | FRESH H2O SPACER |
| Event | 13 | Pump Lead Cement | 11/22/2017 | 05:18:50 | COM5 | 12.30 | 8.00 | 670.00 | 53.0 | 125 SKS @ 12.3 PPG 2.38 YLD 13.77 GAL/SK H2O |

| | | | | | | | | | | |
|-------|----|--|------------|----------|------|-------|-------|--------|------|---|
| Event | 14 | Pump Tail Cement | 11/22/2017 | 05:27:08 | COM5 | 12.80 | 8.00 | 604.00 | 65.8 | 175 SKS @ 12.8 PPG 2.11 YLD 11.78 GAL/SK H2O |
| Event | 15 | Shutdown | 11/22/2017 | 05:36:30 | USER | | | | | |
| Event | 16 | Drop Top Plug | 11/22/2017 | 05:40:52 | COM5 | | | | | PLUG AWAY |
| Event | 17 | Pump Displacement | 11/22/2017 | 05:41:54 | COM5 | 8.33 | 10.00 | 850.00 | 86.6 | FRESH H2O DISPLACEMENT |
| Event | 18 | Slow Rate | 11/22/2017 | 05:52:54 | USER | 8.33 | 2.00 | 270.00 | 76.0 | PRESSURE AT SLOWDOWN WENT FROM 850 TO 270 @ 2 BPM |
| Event | 19 | Bump Plug | 11/22/2017 | 05:56:55 | COM5 | 8.33 | 2.00 | 920.00 | 86.6 | PLUG BUMPED AT CALCULATED DISPLACEMENT. PRESSURE AT CUMP WAS 280, PRESSURED UP TO 920 |
| Event | 20 | Check Floats | 11/22/2017 | 05:58:53 | COM5 | | | | | FLOATS HELD, GAINED 1/2 BBL BACK TO PUMP |
| Event | 21 | End Job | 11/22/2017 | 05:59:45 | USER | | | | | |
| Event | 22 | Post-Job Safety Meeting (Pre Rig-Down) | 11/22/2017 | 06:05:00 | USER | | | | | GOOD CIRCULATION THROUGHOUT JOB. PIPE WAS LEFT STATIC. CIRCULATED 16 BBL CEMENT TO SURFACE. 30# SUGAR USED, NO ADD HOURS CHARGED. |
| Event | 23 | Rig-Down Equipment | 11/22/2017 | 06:10:00 | USER | | | | | |
| Event | 24 | Pre-Convoy Safety Meeting | 11/22/2017 | 07:20:00 | USER | | | | | |
| Event | 25 | Crew Leave Location | 11/22/2017 | 07:30:00 | USER | | | | | THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, CO ANTHONY ANDREWS AND CREW |

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|--|---|--|---|
| ① Call Out n/a;n/a;n/a;n/a | ⑧ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑮ Shutdown 87;13.19;0;70 | 22 Post-Job Safety Meeting (Pre Rig-Down) 3;8.25;0;114.1 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting 109;-0.01;0;0 | ⑯ Drop Top Plug 2; 16.41;0;70 | 23 Rig-Down Equipment 2;8.25;0;114.1 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑩ Start Job 115;8.34;0;1.1 | ⑰ Pump Displacement 91;9.88;2.5;1.1 | 24 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a |
| ④ Arrive At Loc n/a;n/a;n/a;n/a | ⑪ Test Lines 2297;8.41;0;1.2 | ⑱ Slow Rate 308;8.26;2;82.5 | 25 Crew Leave Location n/a;n/a;n/a;n/a |
| ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑫ Pump Spacer 1 58;8.39;2.7;0.5 | ⑲ Bump Plug 927.7;8.28;0;90.2 | |
| ⑥ Spot Equipment n/a;n/a;n/a;n/a | ⑬ Pump Lead Cement 186;11.97;3.9;1.3 | 20 Check Floats 1378.7;8.26;0;90.2 | |
| ⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑭ Pump Tail Cement 604;12.64;8;2.1 | 21 End Job 3;8.25;0;90.2 | |

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