

# HALLIBURTON

iCem<sup>®</sup> Service

**Laramie Energy LLC**

United States of America, COLORADO

**For: Laramie**

**BCU-993-21-05W Surface PJR**

API #: 05-077-10512

Sincerely,

**Grand Junction Cement Engineering**

## 2.0 Real-Time Job Summary

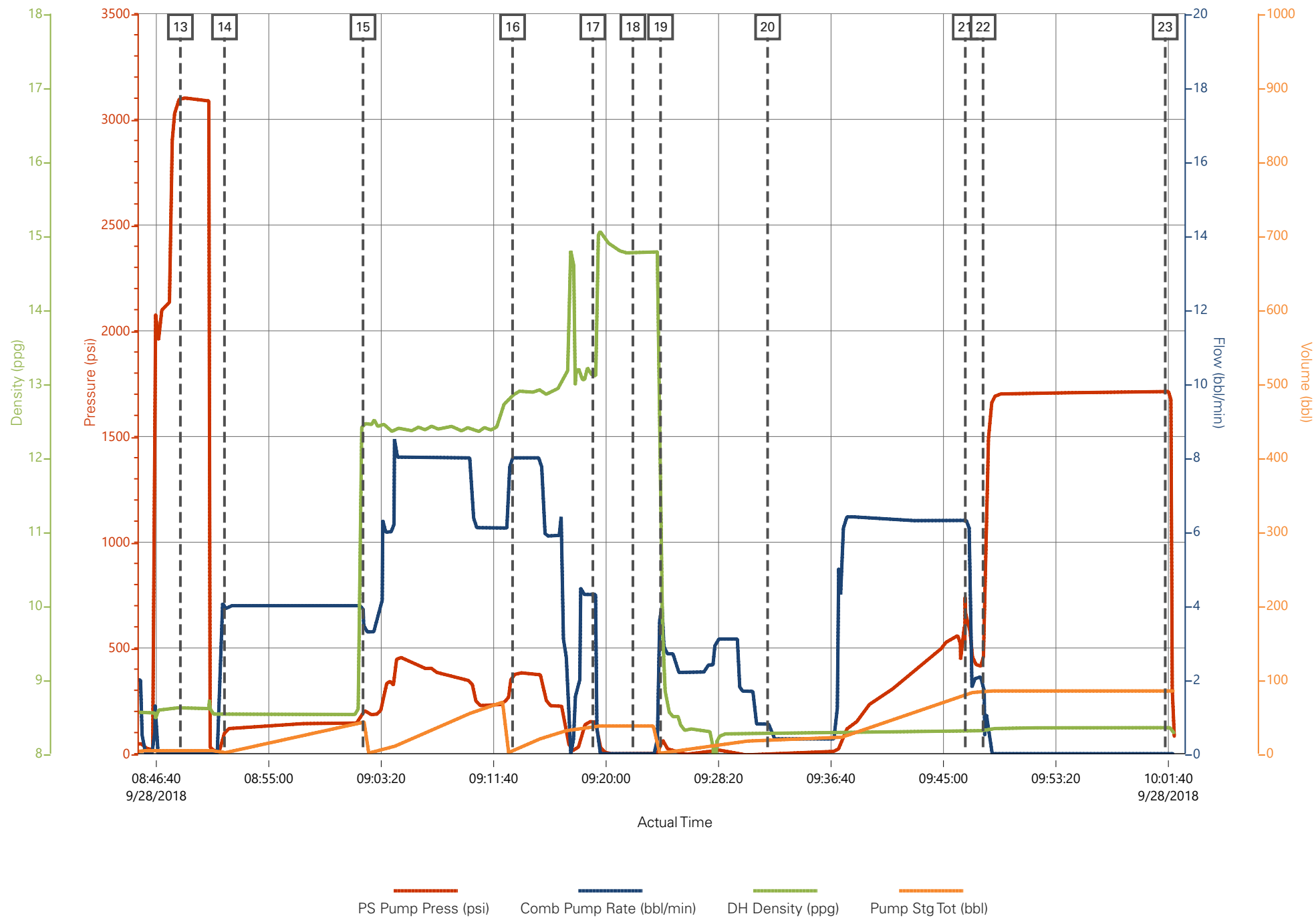
## 2.1 Job Event Log

| Type  | Seq. No. | Graph Label                           | Date      | Time     | Source | PS Pump Press<br>(psi) | Comb Pump Rate<br>(bbl/min) | DH Density<br>(ppg) | Pump Stg Tot<br>(bbl) | Comments   |
|-------|----------|---------------------------------------|-----------|----------|--------|------------------------|-----------------------------|---------------------|-----------------------|--|
| Event | 1        | Call Out                              | 9/28/2018 | 03:30:00 | USER   |                        |                             |                     |                       | REQUESTED ON LOCATION TIME 08:00   |
| Event | 2        | Depart Yard Safety Meeting            | 9/28/2018 | 05:30:00 | USER   |                        |                             |                     |                       | WITH HES, 1 F-450, 1 ELITE CEMENTING UNIT, 1 660 BULK TRUCK, JSA COMPLETED                               |
| Event | 3        | Arrive At Loc                         | 9/28/2018 | 07:30:00 | USER   |                        |                             |                     |                       | RIG RUNNING CASING UPON HES, ARRIVAL   |
| Event | 4        | Assessment Of Location Safety Meeting | 9/28/2018 | 07:45:00 | USER   |                        |                             |                     |                       | WITH HES, JSA COMPLETED, SDS OFFERED FOR ALL HES MATERIALS   |
| Event | 5        | Pre-Rig Up Safety Meeting             | 9/28/2018 | 07:50:00 | USER   |                        |                             |                     |                       | WITH HES, JSA COMPLETED  |
| Event | 6        | Rig-Up Equipment                      | 9/28/2018 | 08:00:00 | USER   |                        |                             |                     |                       | 1 LINE RAN TO THE FLOOR, 1 8.625 IN QUICK-LATCH PLUG CONTAINER   |
| Event | 7        | Other                                 | 9/28/2018 | 08:07:11 | USER   | 0.00                   | 0.00                        | 8.55                | 0.00                  | TD 1588 FT, SET AT 1578FT, CSG 1583 FT 8.625 IN 24 LB/FT J-55, HOLE 11 IN, SHOE 47.07 FT                 |
| Event | 8        | Other                                 | 9/28/2018 | 08:07:12 | USER   | 0.00                   | 0.00                        | 8.55                | 0.00                  | RIG CIRCULATION, 150 BBL, 10 BBL/MIN, 172 PSI, RAT HOLE LENGTH 10 FT, PIPE WAS STATIC, MW 9.4 LB/GAL WBM |
| Event | 9        | Other                                 | 9/28/2018 | 08:07:13 | USER   | -1.00                  | 0.00                        | 8.55                | 0.00                  | WATER TEST PH 7.0, CHLOR 0, TEMP 61 DEG F  |
| Event | 10       | Start Job                             | 9/28/2018 | 08:13:44 | COM4   | 0.00                   | 0.00                        | 8.55                | 0.00                  |  |
| Event | 11       | Pre-Job Safety Meeting                | 9/28/2018 | 08:20:00 | USER   | -1.00                  | 0.00                        | 8.55                | 0.00                  | WITH HES, TEP, AND H&P 318   |
| Event | 12       | Fill Lines                            | 9/28/2018 | 08:43:48 | USER   | 38.00                  | 1.60                        | 8.57                | 0.40                  | 4 BBL FRESH WATER, RETURNS AT 2 BBL AWAY   |

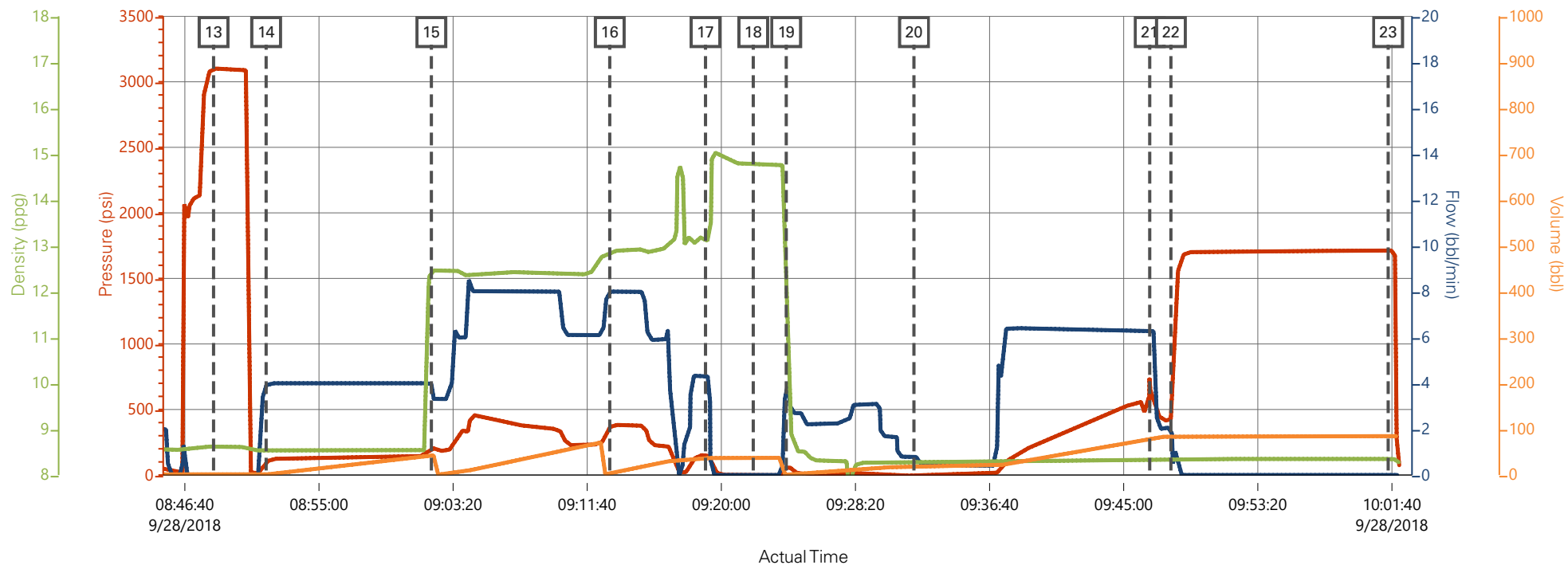
|       |    |                             |           |          |      |         |      |       |       |  |
|-------|----|-----------------------------|-----------|----------|------|---------|------|-------|-------|--|
| Event | 13 | Test Lines                  | 9/28/2018 | 08:48:27 | USER | 3100.00 | 0.00 | 8.62  | 4.10  | LOW TEST AT 880 PSI, HIGH TEST AT 3144 PSI, PRESSURE HOLDING   |
| Event | 14 | Pump Fresh Water Spacer     | 9/28/2018 | 08:51:43 | USER | 99.00   | 3.90 | 8.55  | 1.20  | 40 BBL FRESH WATER   |
| Event | 15 | Pump Lead Cement            | 9/28/2018 | 09:01:59 | USER | 214.00  | 4.00 | 12.47 | 42.40 | MIXED AT 12.3 LB/GAL, 171 SKS, 2.46 FT3/SK, 14,17 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES    |
| Event | 16 | Pump Tail Cement            | 9/28/2018 | 09:13:04 | USER | 367.00  | 8.00 | 12.84 | 3.80  | MIXED AT 12.8 LB/GAL, 94 SKS, 2.18 FT3/SK, 12.11 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES     |
| Event | 17 | Shutdown                    | 9/28/2018 | 09:19:01 | USER | 154.00  | 4.30 | 13.11 | 36.20 |  |
| Event | 18 | Drop Top Plug               | 9/28/2018 | 09:21:59 | USER | -3.00   | 0.00 | 14.77 | 37.40 | PLUG LAUNCHED, CUSTOMER WITNESSED  |
| Event | 19 | Pump Displacement           | 9/28/2018 | 09:24:02 | USER | 66.00   | 4.00 | 12.33 | 0.70  | FRESH WATER  |
| Event | 20 | Comment                     | 9/28/2018 | 09:31:58 | USER | -4.00   | 0.80 | 8.28  | 18.70 | SLOWED RATE TO SWAP WATER SOURCE, RESUMED AFTER GETTING WATER  |
| Event | 21 | Slow Rate                   | 9/28/2018 | 09:46:37 | USER | 671.00  | 6.30 | 8.33  | 80.10 | SLOWED AT 80 BBL AWAY TO 2 BBL/MIN   |
| Event | 22 | Bump Plug                   | 9/28/2018 | 09:47:56 | USER | 417.00  | 2.00 | 8.31  | 84.30 | PLUG BUMPED AT CALCULATED DISPLACEMENT, 417 PSI  |
| Event | 23 | Check Floats                | 9/28/2018 | 10:01:26 | USER | 1712.00 | 0.00 | 8.35  | 84.80 | FLOATS HOLDING, 1 BBL RETURNED TO THE TRUCK, PERFORMED A 10 MIN. CASING TEST AT 1700 PSI, PRESSURE HOLDING |
| Event | 24 | End Job                     | 9/28/2018 | 10:05:00 | USER |         |      |       |       | GOOD CIRCULATION, RIG USED HES TOP PLUG, RIG USED 40 LBS SUGAR, NO ADD HOURS                               |
| Event | 25 | Pre-Rig Down Safety Meeting | 9/28/2018 | 10:10:00 | USER |         |      |       |       | WITH HES, JSA COMPLETD   |
| Event | 26 | Rig Down Lines              | 9/28/2018 | 10:15:00 | USER |         |      |       |       |  |

|       |    |                           |           |          |      |   |
|-------|----|---------------------------|-----------|----------|------|---|
| Event | 27 | Other                     | 9/28/2018 | 10:30:00 | USER | SPACER 40 BBL FRESH WATER, LEAD CEMENT 74.9 BBL, TAIL CEMENT 36.4 BBL, FINAL DISPLACEMENT 97.8 BBL, 20 BBL CEMENT CIRCULATED TO SURFACE, TOP OF TAIL CEMENT 1434 FT |
| Event | 28 | Pre-Convoy Safety Meeting | 9/28/2018 | 10:40:00 | USER | WITH HES, JSA COMPLETED   |
| Event | 29 | Crew Leave Location       | 9/28/2018 | 10:50:00 | USER | THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW   |

# LARAMIE ENERGY - BCU-993-21-05W - SURFACE



# LARAMIE ENERGY - BCU-993-21-05W - SURFACE



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

| Description                | Actual Time | PS Pump Press (psi) | Comb Pump Rate (bbl/min) | DH Density (ppg) | Pump Stg Tot (bbl) |
|----------------------------|-------------|---------------------|--------------------------|------------------|--------------------|
| 13 Test Lines              | 08:48:27    | 3100.00             | 0.00                     | 8.62             | 4.10               |
| 14 Pump Fresh Water Spacer | 08:51:43    | 99.00               | 3.90                     | 8.55             | 1.20               |
| 15 Pump Lead Cement        | 09:01:59    | 214.00              | 4.00                     | 12.47            | 42.40              |
| 16 Pump Tail Cement        | 09:13:04    | 367.00              | 8.00                     | 12.84            | 3.80               |
| 17 Shutdown                | 09:19:01    | 154.00              | 4.30                     | 13.11            | 36.20              |
| 18 Drop Top Plug           | 09:21:59    | -3.00               | 0.00                     | 14.77            | 37.40              |
| 19 Pump Displacement       | 09:24:02    | 66.00               | 4.00                     | 12.33            | 0.70               |
| 20 Comment                 | 09:31:58    | -4.00               | 0.80                     | 8.28             | 18.70              |
| 21 Slow Rate               | 09:46:37    | 671.00              | 6.30                     | 8.33             | 80.10              |
| 22 Bump Plug               | 09:47:56    | 417.00              | 2.00                     | 8.31             | 84.30              |
| 23 Check Floats            | 10:01:26    | 1712.00             | 0.00                     | 8.35             | 84.80              |

▼ HALLIBURTON | iCem® Service

Created: 2018-09-28 07:58:51, (UTC-06:00), Version: 4.5.139

Edit

Customer: Laramie Energy LLC  
Representative: MATT SETTLES

Job Date: 9/28/2018  
Sales Order #: 905169795

Well: BCU-993-21-05W  
ELITE 1: JOHN KEANE / KYLE ROGERS

# HALLIBURTON

iCem<sup>®</sup> Service

**Laramie Energy LLC**

United States of America, COLORADO

Date: Wednesday, October 17, 2018

**BCU 0993-21-05W Production**

Laramie BCU 0993-21-05W Production

API # 05-077-10512-00

Sincerely,

**Grand Junction Cement Engineering**

## 1.0 Real-Time Job Summary

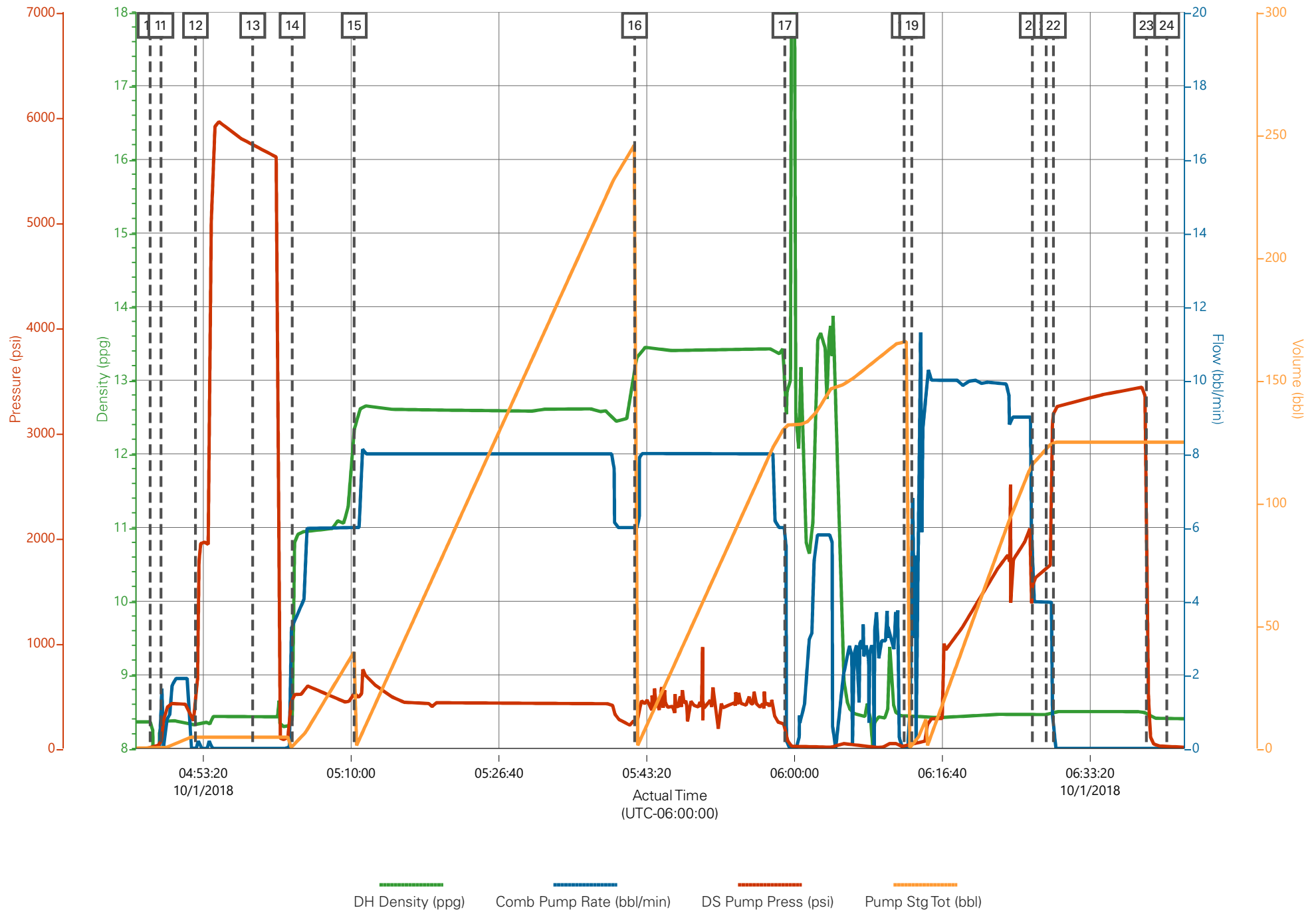
## 1.1 Job Event Log

| Type  | Seq. No. | Activity                              | Date      | Time     | Source | DH Density<br>(ppg) | Comb Pump Rate<br>(bbl/min) | DS Pump Press<br>(psi) | Pump Stg Tot<br>(bbl) | Comments   |
|-------|----------|---------------------------------------|-----------|----------|--------|---------------------|-----------------------------|------------------------|-----------------------|--|
| Event | 1        | Call Out                              | 9/30/2018 | 23:00:00 |        |                     |                             |                        |                       | Requested on Location @ 05:00  |
| Event | 2        | Pre-Convoy Safety Meeting             | 10/1/2018 | 01:50:00 |        |                     |                             |                        |                       |  |
| Event | 3        | Crew Leave Yard                       | 10/1/2018 | 02:00:00 |        |                     |                             |                        |                       | 1 Elite, 1 660's, 1 pickup   |
| Event | 4        | Arrive At Loc                         | 10/1/2018 | 03:00:00 |        |                     |                             |                        |                       | Rig on bottom with casing  |
| Event | 5        | Assessment Of Location Safety Meeting | 10/1/2018 | 03:10:00 |        |                     |                             |                        |                       | JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 62 degrees                                      |
| Event | 6        | Pre-Rig Up Safety Meeting             | 10/1/2018 | 03:20:00 |        |                     |                             |                        |                       |  |
| Event | 7        | Rig-Up Equipment                      | 10/1/2018 | 03:30:00 |        |                     |                             |                        |                       | DME iron to ground manifold, standpipe, hardline to pit. Water hoses to both upright and day tank, bulk hoses to Silo's and 660. |
| Event | 8        | Pre-Job Safety Meeting                | 10/1/2018 | 04:00:00 |        |                     |                             |                        |                       | All HES personnel, rig crew, and company rep.  |
| Event | 9        | Other                                 | 10/1/2018 | 04:05:00 |        |                     |                             |                        |                       | Rig Circulated 1.5 hrs prior to cement job at 10 bpm 660 psi. Mud scales calibrated to drinking water prior to job.              |
| Event | 10       | Other                                 | 10/1/2018 | 04:47:21 |        |                     |                             |                        |                       | TD 7744', TP 7722', SJ 86.28', OH 7 7/8", Csg 4.5" 11.6 lb/ft P-110 Prev. Csg. 8.625" 36# @ 1520', Mud 10.2 ppg.                 |
| Event | 11       | Other                                 | 10/1/2018 | 04:48:33 |        | 8.33                | 2                           | 450                    | 5                     | Fresh Water  |
| Event | 12       | Test Lines                            | 10/1/2018 | 04:52:27 |        |                     |                             | 6076                   |                       | Held pressure 2 minutes  |
| Event | 13       | Check Weight                          | 10/1/2018 | 04:58:55 |        |                     |                             |                        |                       | Density verified via mud cup   |



|       |    |                             |           |          |      |    |      |       |   |
|-------|----|-----------------------------|-----------|----------|------|----|------|-------|---|
| Event | 14 | Pump Spacer                 | 10/1/2018 | 05:03:21 | 11.0 | 6  | 600  | 40    | 11.0 ppg Tuned spacer   |
| Event | 15 | Pump Lead Cement            | 10/1/2018 | 05:10:21 | 12.5 | 8  | 645  | 221.8 | 642 sks, 12.5 ppg, 1.94 yield, 9.59 gal/sk  |
| Event | 16 | Pump Tail Cement            | 10/1/2018 | 05:41:58 | 13.3 | 8  | 500  | 108.5 | 350 sks, 13.3 ppg, 1.74 Yield, 7.8 gal/sk   |
| Event | 17 | Shutdown                    | 10/1/2018 | 05:58:55 |      |    |      |       | Wash lines to pit   |
| Event | 18 | Drop Top Plug               | 10/1/2018 | 06:12:22 |      |    |      |       | Co-Rep Verify Plug Launched   |
| Event | 19 | Pump Displacement           | 10/1/2018 | 06:13:13 | 8.33 | 10 | 2020 | 118.4 | 5 Gal BE-6, 1 gal MCCR, 5 gal Clay-Web  |
| Event | 20 | Slow Rate                   | 10/1/2018 | 06:26:49 | 8.33 | 4  | 1650 | 108   | Slow Rate 10 bbls to Calculated Displacement  |
| Event | 21 | Bump Plug                   | 10/1/2018 | 06:28:23 |      |    | 3500 |       | Plug Bumped at 1650 psi, Brought up to 3500 psi   |
| Event | 22 | Pressure Test               | 10/1/2018 | 06:29:11 |      |    |      |       | 3500 psi for 10 min.  |
| Event | 23 | Check Floats                | 10/1/2018 | 06:39:41 |      |    |      |       | Floats held – 1.5 bbl back to the truck   |
| Event | 24 | Other                       | 10/1/2018 | 06:41:58 |      |    |      |       | Good returns throughout job. Pipe was not reciprocated during job. No spacer to surface |
| Event | 25 | Pre-Rig Down Safety Meeting | 10/1/2018 | 06:56:06 |      |    |      |       | 40 lbs sugar, HES top and bottom plug used, 0 add hours                                 |
| Event | 26 | Rig-Down Equipment          | 10/1/2018 | 06:59:44 |      |    |      |       |   |
| Event | 27 | Pre-Convoy Safety Meeting   | 10/1/2018 | 07:04:10 |      |    |      |       |   |
| Event | 28 | Crew Leave Location         | 10/1/2018 | 07:06:03 |      |    |      |       | Thanks for using Halliburton Cement, Chris Martinez and crew.                           |

# Laramie, BCU 993-21-05W, 4 1/2" Production



# HALLIBURTON

## Rockies, Grand Junction

## Lab Results- Lead

### Job Information

|                       |                 |                 |                   |                   |                 |
|-----------------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| <b>Request/Slurry</b> | 2504489/1       | <b>Rig Name</b> | H&P 522           | <b>Date</b>       | 25/SEP/2018     |
| <b>Submitted By</b>   | Connor Matthews | <b>Job Type</b> | Production Casing | <b>Bulk Plant</b> | Grand Junction  |
| <b>Customer</b>       | Laramie Energy  | <b>Location</b> | Garfield          | <b>Well</b>       | BCU 0993-21-05W |

### Well Information

|                          |          |                  |         |             |               |
|--------------------------|----------|------------------|---------|-------------|---------------|
| <b>Casing/Liner Size</b> | 4.5 in   | <b>Depth MD</b>  | 7715 ft | <b>BHST</b> | 103°C / 218°F |
| <b>Hole Size</b>         | 7.875 in | <b>Depth TVD</b> | 7691 ft | <b>BHCT</b> | 63°C / 146°F  |
| <b>Pressure</b>          | 4684 psi |                  |         |             |               |

### Drilling Fluid Information

|                          |        |                       |            |                |             |
|--------------------------|--------|-----------------------|------------|----------------|-------------|
| <b>Mud Supplier Name</b> | Baroid | <b>Mud Trade Name</b> | BARADRIL-N | <b>Density</b> | 9.9 lbm/gal |
|--------------------------|--------|-----------------------|------------|----------------|-------------|

### Cement Information - Lead Design

| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Sample Type</u> | <u>Sample Date</u> | <u>Lot No.</u> | <b>Cement Properties</b> |                     |          |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|---------------------|----------|
|             |            | NeoCem                 |                    |                    |                | Slurry Density           | 12.5                | lbm/gal  |
|             |            |                        |                    |                    |                | Slurry Yield             | 1.946               | ft3/sack |
|             |            |                        |                    |                    |                | Water Requirement        | 9.615               | gal/sack |
|             |            |                        |                    |                    |                | Total Mix Fluid          | 9.615               | gal/sack |
|             |            |                        |                    |                    |                | Water Source             | Field (Fresh) Water |          |
|             |            |                        |                    |                    |                | Water Chloride           |                     |          |

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# Operation Test Results Request ID 2504489/1

## Thickening Time - ON-OFF-ON

29/SEP/2018

| Test Temp (degF) | Pressure (psi) | Reached in (min) | 30 Bc (hh:mm) | 50 Bc (hh:mm) | 70 Bc (hh:mm) | 100 Bc (hh:mm) | Start Bc | Stirring before stop (mins) | Static Period (min) | Peak reading (BC) |
|------------------|----------------|------------------|---------------|---------------|---------------|----------------|----------|-----------------------------|---------------------|-------------------|
| 146              | 4684           | 40               | 7:01          | 8:24          | 8:24          | 9:42           | 11       | 50                          | 15                  | 12                |

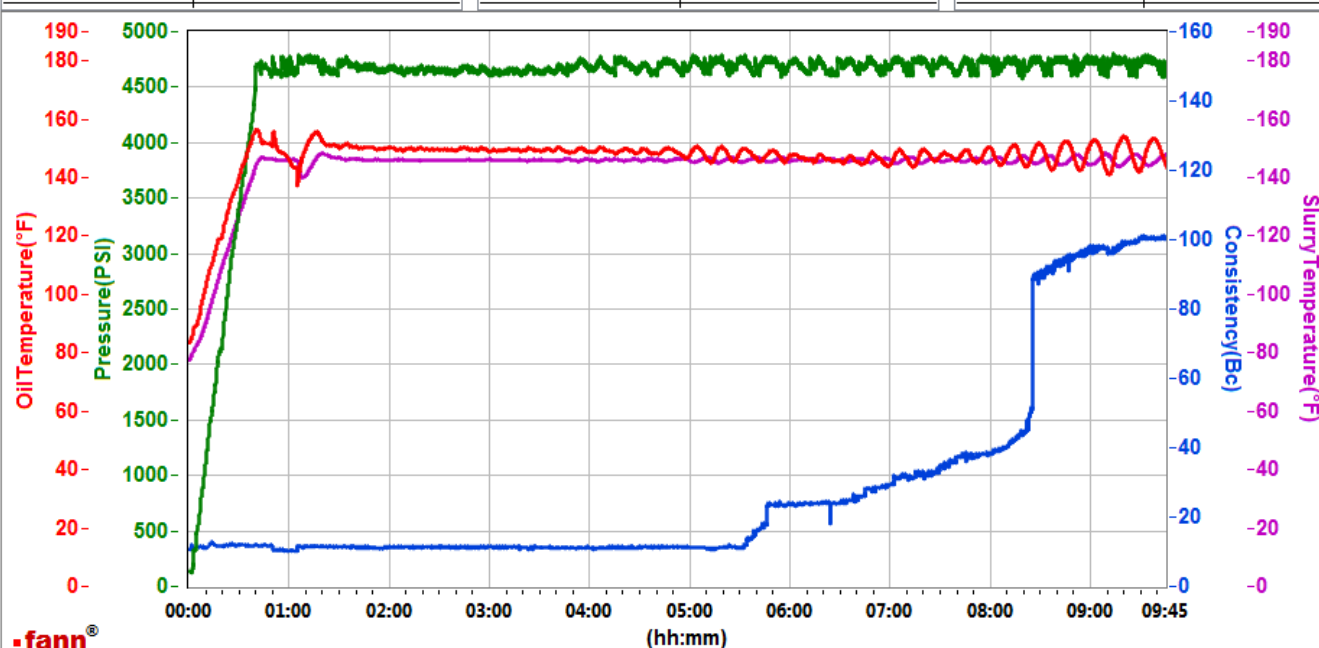
Total sks = 642

CS2164 TR 8658 321 SKS

CS2165 TR 6813 321 SKS

## GRAND JUNCTION

| Fields       | Values                 | Fields            | Values                 | Events | Results |
|--------------|------------------------|-------------------|------------------------|--------|---------|
| Project Name | GJ2504489-1 Laramie Bu | Rig               | H&P 522                | 30 BC  | 7:01    |
| SW Version   | 1.0                    | Casing/Liner Size | 4.5 INCH               | 50 BC  | 8:24    |
| Test ID      | 35850629               | Job Type          | PRODUCTION             | 70 BC  | 8:24    |
| Request ID   | 2504489-1              | Cement Weight     | GCC TYPE I-II          | 100 BC | 9:42    |
| Tested by    | JASON                  | Comments          | Light Weight           |        |         |
| Customer     | LARAMIE ENERGY         | Date Time         | 9/28/2018 06:33:46.392 |        |         |
| Well No      | BCU 0993-21-05W        | Temp. Units       | degF                   |        |         |



Data File C:\Users\H185329\Desktop\000 Graphs\GJ2504489-1 LARAMIE PRODUCTION BULK LEAD.tdms

Comments Light Weight

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# HALLIBURTON

## Rockies, Grand Junction

## Lab Results- Tail

### Job Information

|                |                 |          |                   |            |                 |
|----------------|-----------------|----------|-------------------|------------|-----------------|
| Request/Slurry | 2504490/1       | Rig Name | H&P 522           | Date       | 25/SEP/2018     |
| Submitted By   | Connor Matthews | Job Type | Production Casing | Bulk Plant | Grand Junction  |
| Customer       | Laramie Energy  | Location | Garfield          | Well       | BCU 0993-21-05W |

### Well Information

|                   |          |           |         |      |               |
|-------------------|----------|-----------|---------|------|---------------|
| Casing/Liner Size | 4.5 in   | Depth MD  | 7715 ft | BHST | 103°C / 218°F |
| Hole Size         | 7.875 in | Depth TVD | 7691 ft | BHCT | 63°C / 146°F  |
| Pressure          | 4685 psi |           |         |      |               |

### Drilling Fluid Information

|                   |        |                |            |         |             |
|-------------------|--------|----------------|------------|---------|-------------|
| Mud Supplier Name | Baroid | Mud Trade Name | BARADRIL-N | Density | 9.9 lbm/gal |
|-------------------|--------|----------------|------------|---------|-------------|

### Cement Information - Tail Design



| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Sample Type</u> | <u>Sample Date</u> | <u>Lot No.</u> | <u>Cement Properties</u> |                     |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|---------------------|
|             |            | ThermaCem              |                    |                    |                | Slurry Density           | 13.3 lbm/gal        |
|             |            |                        |                    |                    |                | Slurry Yield             | 1.737 ft3/sack      |
|             |            |                        |                    |                    |                | Water Requirement        | 7.785 gal/sack      |
|             |            |                        |                    |                    |                | Total Mix Fluid          | 7.785 gal/sack      |
|             |            |                        |                    |                    |                | Water Source             | Field (Fresh) Water |
|             |            |                        |                    |                    |                | Water Chloride           |                     |

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# Operation Test Results Request ID 2504490/1

## Thickening Time - ON-OFF-ON

29/SEP/2018

| Test Temp (degF) | Pressure (psi) | Reached in (min) | 30 Bc (hh:mm) | 50 Bc (hh:mm) | 70 Bc (hh:mm) | 100 Bc (hh:mm) | Start Bc | Stirring before stop (mins) | Static Period (min) | Peak reading (BC) |
|------------------|----------------|------------------|---------------|---------------|---------------|----------------|----------|-----------------------------|---------------------|-------------------|
| 146              | 4685           | 40               | 0:06          | 3:45          | 4:20          | 4:37           | 29       | 50                          | 15                  | 28                |

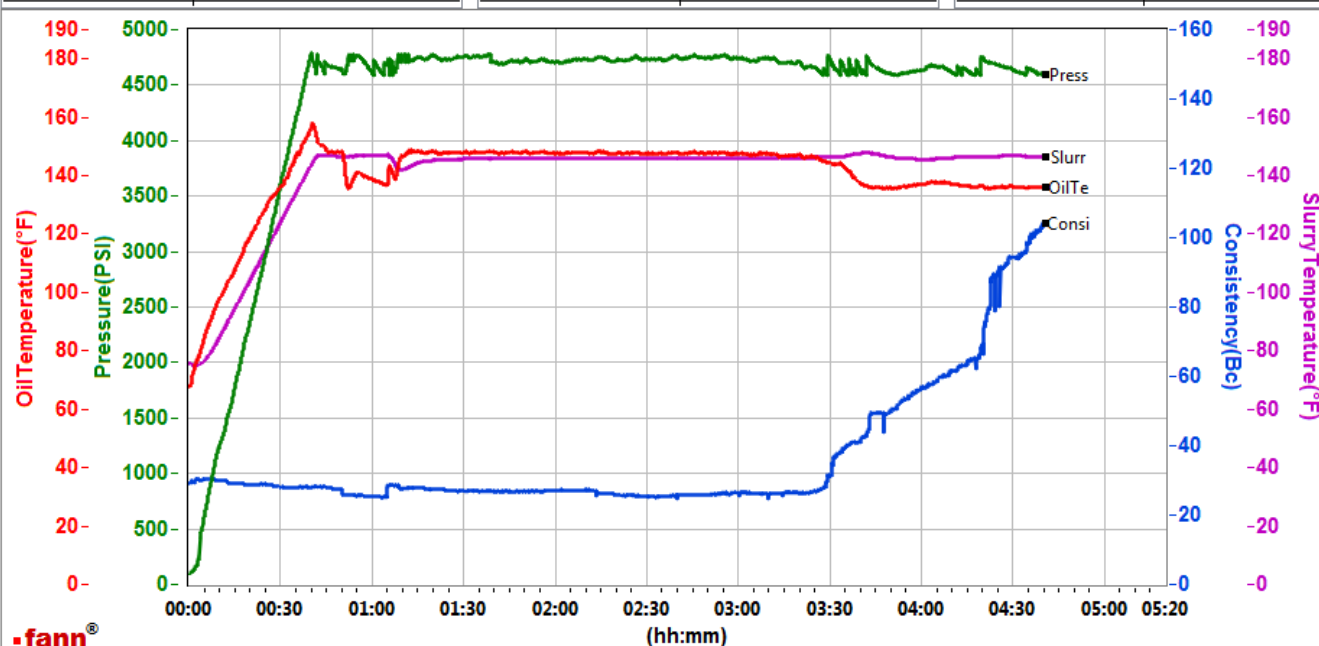
Total sks = 350

CS2168, Trailer 8677, 350 sks

Deflection: 25 – 28

## GRAND JUNCTION

| Fields       | Values                | Fields            | Values                 | Events | Results |
|--------------|-----------------------|-------------------|------------------------|--------|---------|
| Project Name | GJ2504490-1 Laramie B | Rig               | H&P 522                | 30 BC  | 0:06    |
| SW Version   | 1.0                   | Casing/Liner Size | 4.5 INCH               | 50 BC  | 3:45    |
| Test ID      | 35850631 - TT         | Job Type          | PRODUCTION CASING      | 70 BC  | 4:20    |
| Request ID   | 2504490-1             | Cement Weight     | MOUNTAIN G             | 100 BC | 4:37    |
| Tested by    | CT                    | Comments          | Standard               |        |         |
| Customer     | LARAMIE ENERGY        | Date Time         | 9/28/2018 10:43:48.927 |        |         |
| Well No      | BCU 0993-21-05W       | Temp. Units       | degF                   |        |         |



Data File \\Corp.Halliburton.com\NA\GJU\Public\Z Lab\HPHT 2\GJ2504490-1 LARAMIE BULK PRODUCTION TAIL.tdms

Comments Standard

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