

HALLIBURTON

iCem[®] Service

LARAMIE ENERGY LLC

Date: Wednesday, March 28, 2018

GUNDERSON 994-13-12 W

Gunderson 994-13-12W Surface
API # 05-077-10534-00
Job Date: Tuesday, March 20, 2018

Sincerely,

Grand Junction Cement Engineering

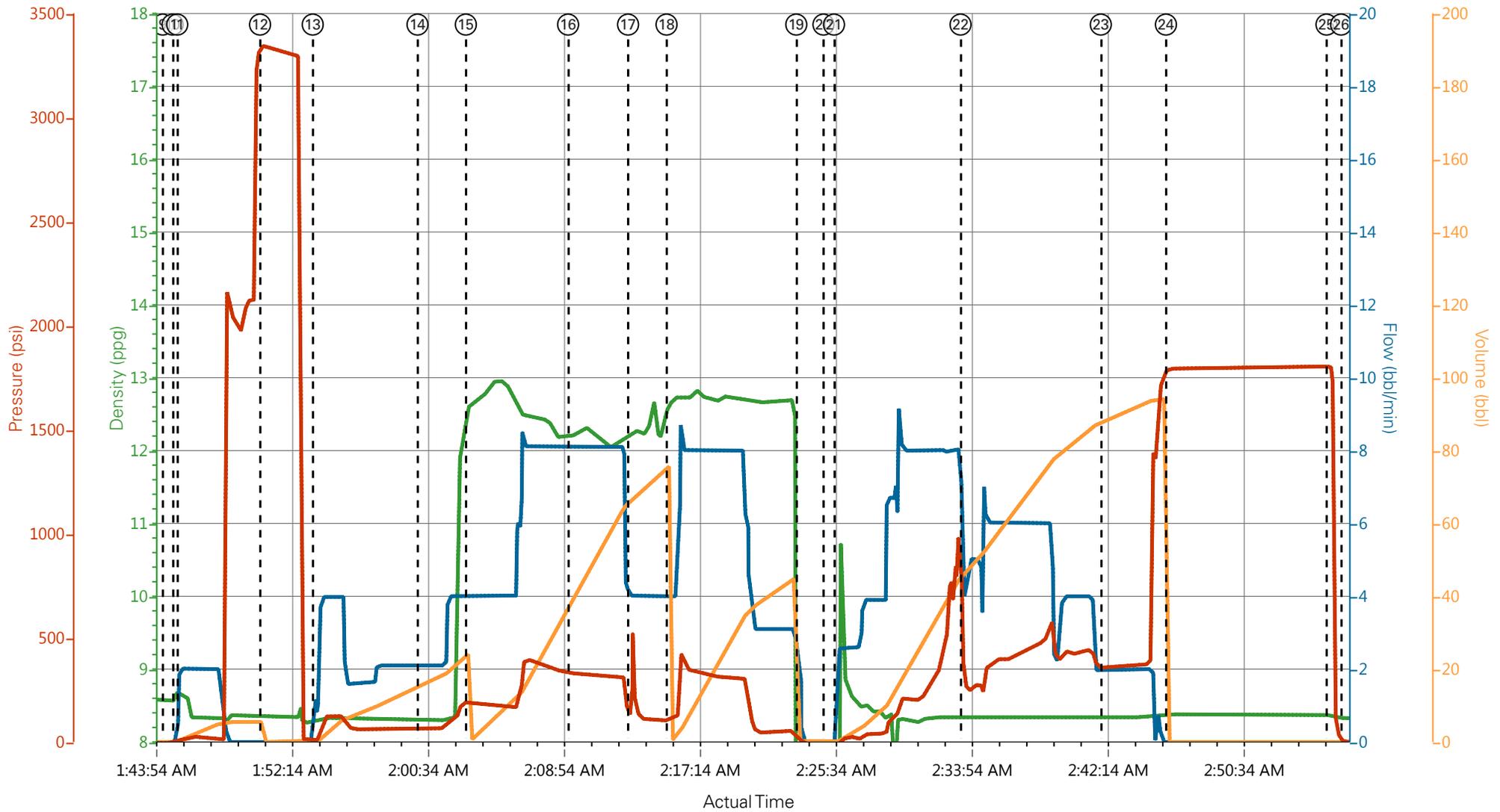
1.0 Real-Time Job Summary

1.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | Pass-Side Pump Pressure (psi) | Downhole Density (ppg) | Combined Pump Rate (bbl/min) | Pump Stage Total (bbl) | Comments |
|-------|----------|---------------------------------------|-----------|----------|--------|----------------------------------|---------------------------|---------------------------------|---------------------------|--|
| Event | 1 | Call Out | 3/19/2018 | 19:00:00 | USER | | | | | REQUESTED ON LOCATION @ 0300 |
| Event | 2 | Pre-Convoy Safety Meeting | 3/19/2018 | 21:00:00 | USER | | | | | ALL HES PRESENT |
| Event | 3 | Crew Leave Yard | 3/19/2018 | 21:05:00 | USER | | | | | 1 F550, 1 PUMP TRUCK & 1 660 BULK TURCK |
| Event | 4 | Arrive At Loc | 3/20/2018 | 00:20:00 | USER | | | | | RIG RUNNING CASING |
| Event | 5 | Assessment Of Location Safety Meeting | 3/20/2018 | 00:30:00 | USER | | | | | MET WITH COMP REP, SHANE, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 75F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES. |
| Event | 6 | Pre-Rig Up Safety Meeting | 3/20/2018 | 00:35:00 | USER | | | | | ALL HES PRESENT |
| Event | 7 | Rig-Up Equipment | 3/20/2018 | 00:40:00 | USER | | | | | HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE. |
| Event | 8 | Pre-Job Safety Meeting | 3/20/2018 | 01:15:00 | USER | | | | | ALL HES AND RIG CREW PRESENT |
| Event | 9 | Start Job | 3/20/2018 | 01:44:30 | COM3 | | | | | TD 1551', TP 1541', SJ 44.7', OH 11'', CSG 8.625'' 24#, MUD 9.5 PPG. |
| Event | 10 | Drop Bottom Plug | 3/20/2018 | 01:45:06 | USER | | | | | PLUG WENT, VERIFIED BY CO REP. |
| Event | 11 | Prime Pumps | 3/20/2018 | 01:45:23 | USER | 67.00 | 8.33 | 1.00 | 2.0 | 8.33 PPG FRESH WATER |
| Event | 12 | Test Lines | 3/20/2018 | 01:50:27 | COM3 | 3347.00 | 8.33 | 0.50 | 0.5 | ALL LINES HELD PRESSURE AT 3347 PSI |
| Event | 13 | Pump Spacer | 3/20/2018 | 01:53:41 | USER | 150.00 | 8.33 | 4.00 | 20.0 | 8.33 PPG FRESH WATER (20BBL) |

| | | | | | | | | | | |
|-------|----|--|-----------|----------|------|---------|-------|------|------|---|
| Event | 14 | Check weight | 3/20/2018 | 02:00:06 | COM3 | | | | | WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES |
| Event | 15 | Pump Lead Cement | 3/20/2018 | 02:03:04 | COM3 | 393.00 | 12.32 | 8.00 | 78.0 | VARICEM CEMENT 178 SKS (78 BBLS), 12.3 PPG, 2.46 FT3/SK, 14.17 GAL/SK |
| Event | 16 | Check weight | 3/20/2018 | 02:09:20 | COM3 | | | | | WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES |
| Event | 17 | Slow Rate | 3/20/2018 | 02:13:01 | USER | 122.00 | 12.34 | 4.00 | | SLOWED RATE FOR BOTTOM PLUG |
| Event | 18 | Pump Tail Cement | 3/20/2018 | 02:15:22 | COM3 | 330.00 | 12.84 | 8.00 | 42.0 | VARICEM CEMENT 109 SKS (42 BBLS), 12.8 PPG, 2.18 FT3/SK, 12.11 GAL/SK. |
| Event | 19 | Shutdown | 3/20/2018 | 02:23:19 | USER | | | | | END OF CEMENT |
| Event | 20 | Drop Top Plug | 3/20/2018 | 02:25:00 | USER | | | | | PLUG WENT, VERIFIED BY CO REP. |
| Event | 21 | Pump Displacement | 3/20/2018 | 02:25:38 | COM3 | 470.00 | 8.33 | 8.00 | 86.7 | 8.34 PPG FRESH WATER (96.7 BBLS) |
| Event | 22 | Slow Rate | 3/20/2018 | 02:33:24 | USER | | | | | SLOWED RATE DUE TO HIGH PRESSURE |
| Event | 23 | Slow Rate | 3/20/2018 | 02:42:00 | USER | 353.00 | 8.34 | 2.00 | 10.0 | SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG |
| Event | 24 | Bump Plug | 3/20/2018 | 02:45:59 | COM3 | 1792.00 | 8.33 | 2.00 | 86.7 | LAND PLUG AT 375 PSI, BROUGHT UP TO 1790 PSI FOR A 10 MIN CASING TEST |
| Event | 25 | Check Floats | 3/20/2018 | 02:55:50 | USER | 1803.00 | 8.33 | 0.00 | 0.0 | FLOATS HELD, 1 BBL BACK TO TRUCK |
| Event | 26 | End Job | 3/20/2018 | 02:56:43 | COM3 | | | | | RETURNS THROUGHOUT JOB, PIPE WAS NOT RECIPROCATED, 33 BBL OF CEMENT BACK TO SURFACE |
| Event | 27 | Post-Job Safety Meeting (Pre Rig-Down) | 3/20/2018 | 03:00:00 | USER | | | | | ALL HES PRESENT |
| Event | 28 | Rig-Down Equipment | 3/20/2018 | 03:10:00 | USER | | | | | ALL HES PRESENT |
| Event | 29 | Pre-Convoy Safety Meeting | 3/20/2018 | 03:30:00 | USER | | | | | ALL HES PRESENT |
| Event | 30 | Crew Leave Loc | 3/20/2018 | 03:40:00 | USER | | | | | THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW |

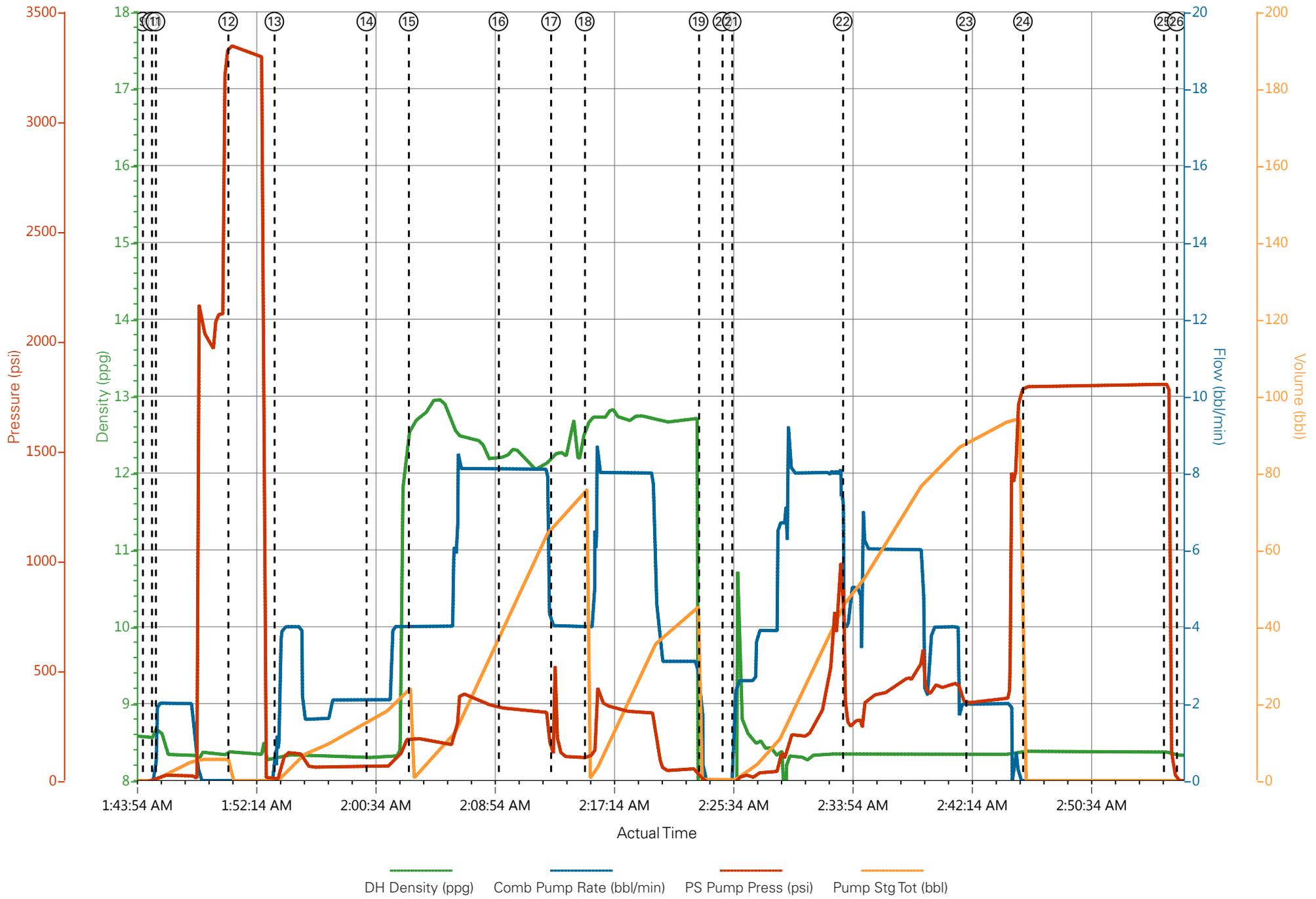
LARAMIE - GUNDERSON 994-13-12W - 8.625" SURFACE



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

- | | | | | | |
|---|-----------------------------|--------------------|--------------------|---------------------|--|
| ① Call Out | ⑥ Pre-Rig Up Safety Meeting | ⑪ Prime Pumps | ⑯ Check weight | ⑳ Pump Displacement | ⑳ End Job |
| ② Pre-Convoy Safety Meeting | ⑦ Rig-Up Equipment | ⑫ Test Lines | ⑰ Slow Rate | ㉑ Slow Rate | ㉑ Post-Job Safety Meeting (Pre Rig-Down) |
| ③ Crew Leave Yard | ⑧ Pre-Job Safety Meeting | ⑬ Pump Spacer | ⑱ Pump Tail Cement | ㉒ Slow Rate | ㉒ Rig-Down Equipment |
| ④ Arrive At Loc | ⑨ Start Job | ⑭ Check weight | ⑲ Shutdown | ㉓ Bump Plug | ㉓ Pre-Convoy Safety Meeting |
| ⑤ Assessment Of Location Safety Meeting | ⑩ Drop Bottom Plug | ⑮ Pump Lead Cement | ㉔ Drop Top Plug | ㉔ Check Floats | ㉔ Crew Leave Loc |

LARAMIE - GUNDERSON 994-13-12W - 8.625" SURFACE



HALLIBURTON

iCem[®] Service

LARAMIE ENERGY II LLC EBUSINESS

For: Laramie

Date: Thursday, March 22, 2018

GUNDERSON 994-13-12W Production

API# 05-077-10534-00

Job Date: Thursday, March 22, 2018

Sincerely,

Grand Junction Cement Engineering

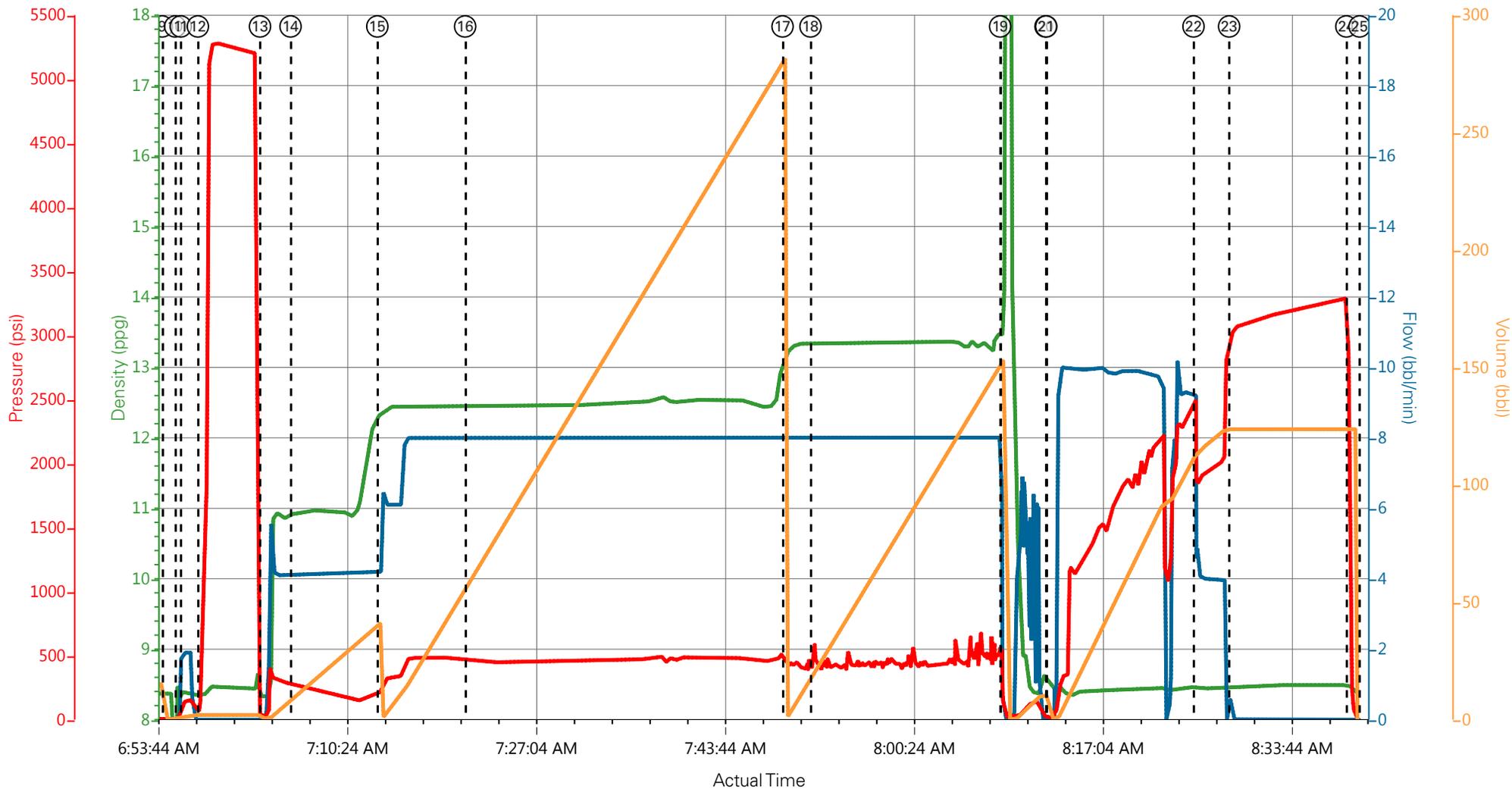
2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | DH Density <i>(ppg)</i> | Comb Pump Rate <i>(bbl/min)</i> | PS Pump Press <i>(psi)</i> | Pump Stg Tot <i>(bbl)</i> | Comments |
|-------|----------|---------------------------------------|-----------|----------|--------|----------------------------|------------------------------------|-------------------------------|------------------------------|---|
| Event | 1 | Call Out | 3/22/2018 | 00:00:00 | USER | | | | | REQUESTED ON LOCATION @ 06:00 |
| Event | 2 | Pre-Convoy Safety Meeting | 3/22/2018 | 02:00:00 | USER | | | | | ALL HES PRESENT |
| Event | 3 | Crew Leave Yard | 3/22/2018 | 02:15:00 | USER | | | | | 1 HT 400 PUMP TRUCK E4, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP |
| Event | 4 | Arrive At Loc | 3/22/2018 | 05:00:00 | USER | | | | | RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION |
| Event | 5 | Assessment Of Location Safety Meeting | 3/22/2018 | 05:15:00 | USER | | | | | MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7.0, CHLORIDES- 0, TEMP- 50F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES. |
| Event | 6 | Pre-Rig Up Safety Meeting | 3/22/2018 | 05:20:00 | USER | | | | | ALL HES PRESENT |
| Event | 7 | Rig-Up Equipment | 3/22/2018 | 05:30:00 | USER | | | | | HES RIGGED UP 1 HT400 PUMP TRUCK, 1 660 BULK TRUCK, 2 CEMENT SILOS, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE. |
| Event | 8 | Pre-Job Safety Meeting | 3/22/2018 | 06:40:00 | USER | | | | | ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 10 BPM PRIOR TO JOB PRESSURE @ 600 PSI. |
| Event | 9 | Start Job | 3/22/2018 | 06:54:21 | COM6 | | | | | TD 7641', TP 7631' OF 4 1/2" 11.6# P110 CSG, SJ 86.86', SURFACE CSG 8 5/8" 28# J55 SET @ 1564', OH 7 7/8", MUD 9.1 PPG |
| Event | 10 | Prime Lines | 3/22/2018 | 06:55:30 | USER | 8.33 | 2 | 160 | 2 | 8.33 PPG FRESH WATER |
| Event | 11 | Drop Bottom Plug | 3/22/2018 | 06:56:00 | USER | | | | | VERIFIED BY PLUG INDICATOR |

| | | | | | | | | | | |
|-------|----|--|-----------|----------|------|------|----|------|-----|---|
| Event | 12 | Test Lines | 3/22/2018 | 06:57:30 | COM6 | | | 5285 | | ALL LINES HELD PRESSURE AT 5285 PSI |
| Event | 13 | Tuned Spacer | 3/22/2018 | 07:02:59 | COM6 | 11 | 4 | 270 | 4 | 40 BBL TUNED SPACER III, 11 PPG, 4.86 FT3/SK, 31.9 GAL/SK |
| Event | 14 | Check Weight | 3/22/2018 | 07:05:41 | USER | | | | | WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES |
| Event | 15 | Pump Lead Cement | 3/22/2018 | 07:13:20 | COM6 | 12.5 | 8 | 480 | 261 | 755 SKS OF NEOCEM CMT 12.5 PPG, 1.94 FT3/SK, 9.6 GAL/SK. |
| Event | 16 | Check Weight | 3/22/2018 | 07:21:05 | USER | | | | | WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES |
| Event | 17 | Pump Tail Cement | 3/22/2018 | 07:49:05 | COM6 | 13.3 | 8 | 430 | 122 | 396 SKS THERMACEM CMT 13.3 PPG, 1.73 FT3/SK, 7.81 GAL/SK. |
| Event | 18 | Check Weight | 3/22/2018 | 07:51:33 | USER | | | | | WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES |
| Event | 19 | Clean Lines | 3/22/2018 | 08:08:17 | COM6 | | | | | END OF CEMENT. CLEAN PUMPS AND LINES TO CELLAR. |
| Event | 20 | Drop Top Plug | 3/22/2018 | 08:12:17 | COM6 | | | | | VERIFIED BY PLUG INDICATOR |
| Event | 21 | Pump Displacement | 3/22/2018 | 08:12:21 | COM6 | 8.4 | 10 | 2450 | 117 | 1 GAL MMCR IN FIRST 10 BBLS, 5 GALS CLAY WEB THROUGH DISPLACEMENT |
| Event | 22 | Slow Rate | 3/22/2018 | 08:25:20 | USER | 8.4 | 4 | 1920 | 107 | SLOW RATE TO 4 BPM TO BUMP PLUG |
| Event | 23 | Bump Plug | 3/22/2018 | 08:28:29 | COM6 | 8.4 | 4 | 2000 | 117 | LANDED PLUG AT 2000 PSI, BROUGHT UP TO 3000 PSI HELD TEN MINS FOR CASING TEST |
| Event | 24 | Check Floats | 3/22/2018 | 08:38:50 | USER | | | | | FLOATS HELD, 1.5 BBL BACK TO TRUCK |
| Event | 25 | End Job | 3/22/2018 | 08:40:00 | USER | | | | | RETURNS THROUGH JOB, 40 BBLS OF TUNED SPACER TO SURFACE. 40# OF SUGAR USED. |
| Event | 26 | Post-Job Safety Meeting (Pre Rig-Down) | 3/22/2018 | 08:50:00 | USER | | | | | ALL HES PRESENT |
| Event | 27 | Rig-Down Equipment | 3/22/2018 | 08:55:00 | USER | | | | | ALL HES PRESENT |
| Event | 28 | Pre-Convoy Safety Meeting | 3/22/2018 | 10:00:00 | USER | | | | | ALL HES PRESENT |
| Event | 29 | Crew Leave Location | 3/22/2018 | 10:15:00 | USER | | | | | THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW |

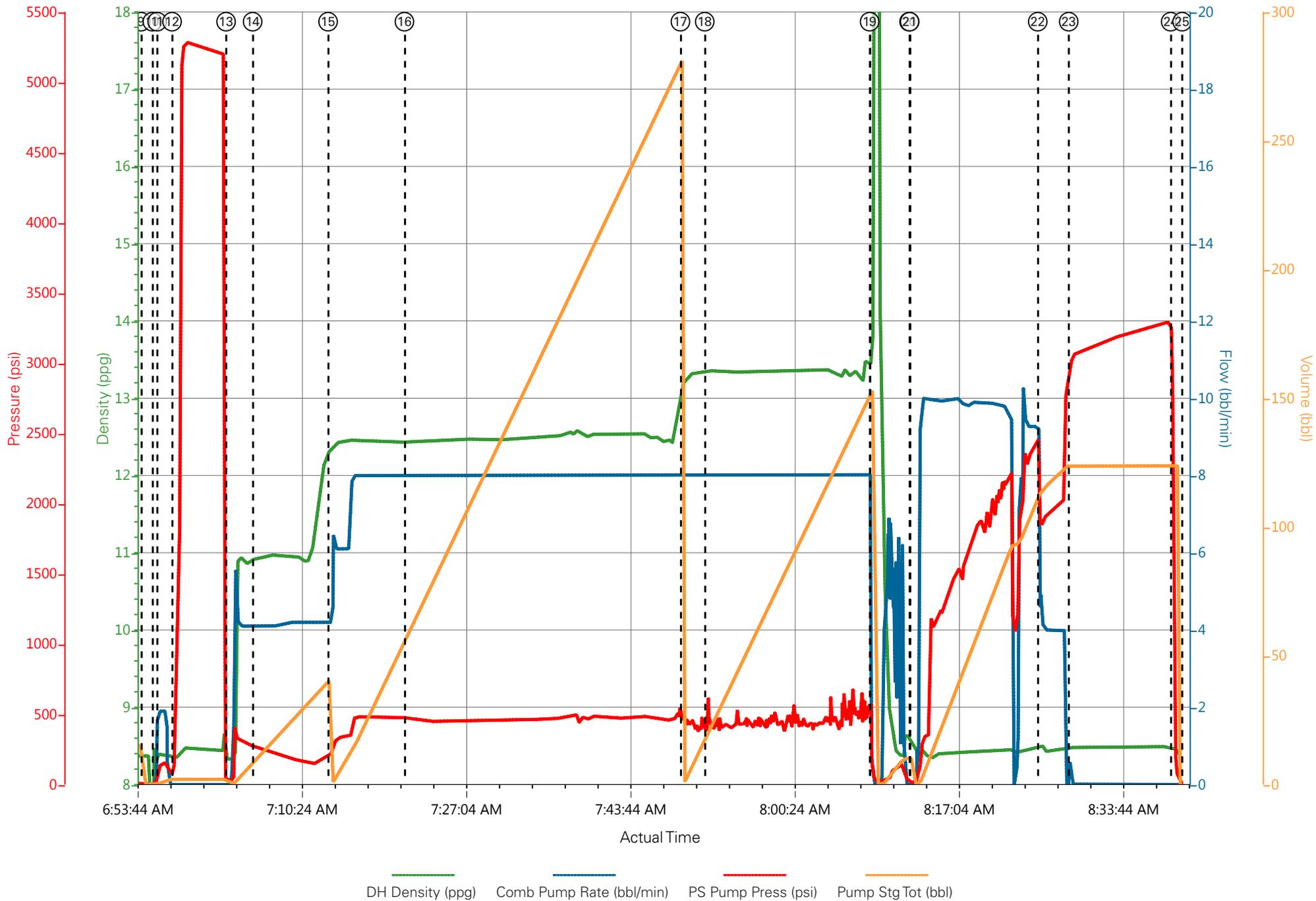
LARAMIE GUNDERSON 994-13-12W, 4.5" PRODUCTION



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

- | | | | | |
|---|--------------------------|--------------------|----------------------|---|
| ① Call Out | ⑦ Rig-Up Equipment | ⑬ Tuned Spacer | ⑰ Clean Lines | 25 End Job |
| ② Pre-Convoy Safety Meeting | ⑧ Pre-Job Safety Meeting | ⑭ Check Weight | 20 Drop Top Plug | 26 Post-Job Safety Meeting (Pre Rig-Down) |
| ③ Crew Leave Yard | ⑨ Start Job | ⑮ Pump Lead Cement | 21 Pump Displacement | 27 Rig-Down Equipment |
| ④ Arrive At Loc | ⑩ Prime Lines | ⑯ Check Weight | 22 Slow Rate | 28 Pre-Convoy Safety Meeting |
| ⑤ Assessment Of Location Safety Meeting | ⑪ Drop Bottom Plug | ⑰ Pump Tail Cement | 23 Bump Plug | 29 Crew Leave Location |
| ⑥ Pre-Rig Up Safety Meeting | ⑫ Test Lines | ⑱ Check Weight | 24 Check Floats | |

LARAMIE GUNDERSON 994-13-12W, 4.5" PRODUCTION



Job Information

| | | | | | |
|-----------------------|----------------|-----------------|-------------------|-------------------|-----------------------|
| Request/Slurry | 2461538/1 | Rig Name | H&P 522 | Date | 19/MAR/2018 |
| Submitted By | Lukas Van Zyl | Job Type | Production Casing | Bulk Plant | Grand Junction |
| Customer | Laramie Energy | Location | Garfield | Well | Gunderson 0994-13-12W |

Well Information

| | | | | | |
|--------------------------|----------|------------------|---------|-------------|---------------|
| Casing/Liner Size | 4.5 in | Depth MD | 7649 ft | BHST | 113°C / 236°F |
| Hole Size | 7.875 in | Depth TVD | 7592 ft | BHCT | 76°C / 169°F |
| Pressure | 4614 psi | | | | |

Drilling Fluid Information

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

Cement Information - Lead Design

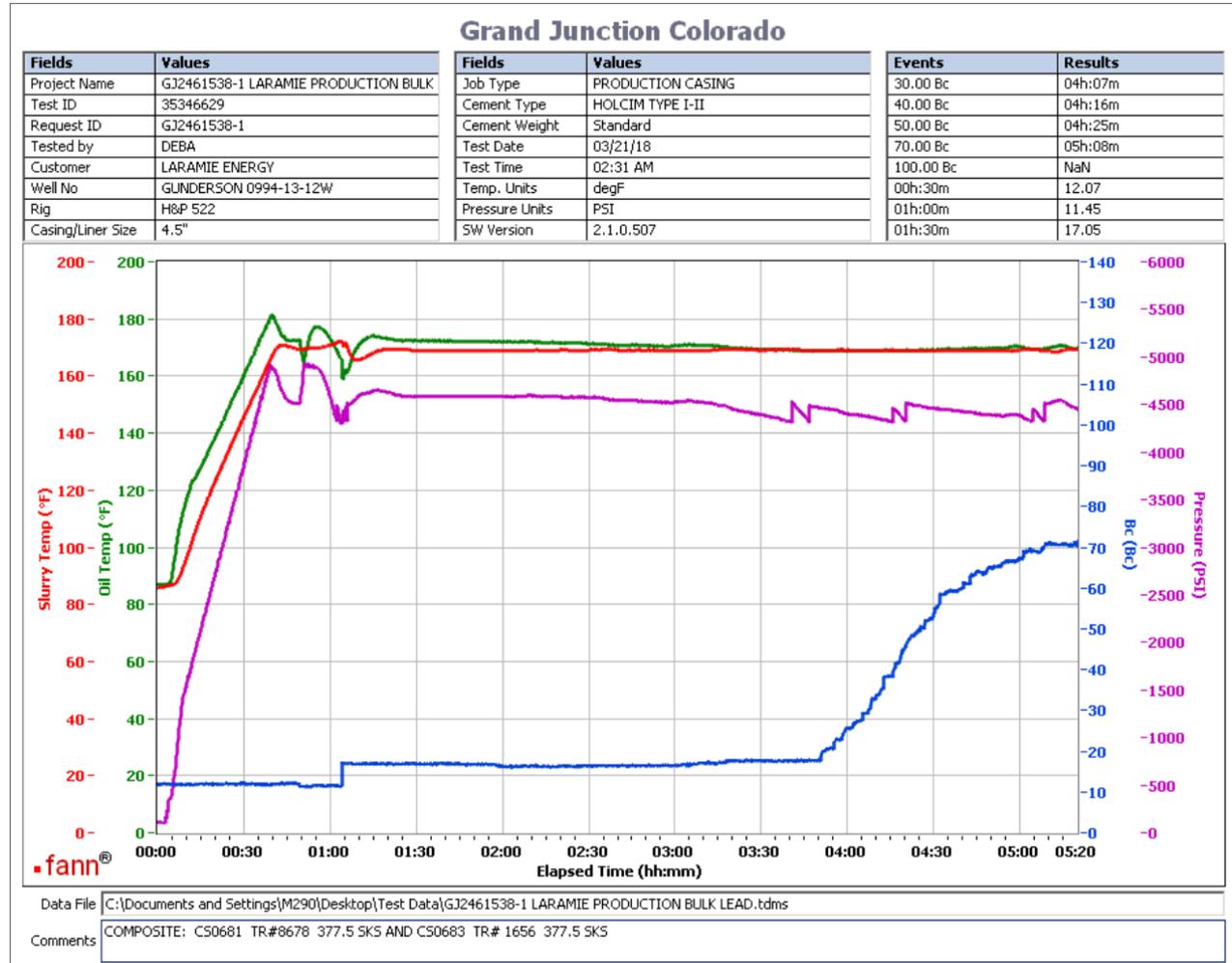
| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Sample Type</u> | <u>Sample Date</u> | <u>Lot No.</u> | Cement Properties | | |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|-------------|----------|
| | | NeoCem Lead | | | | Slurry Density | 12.5 | lbm/gal |
| | | | | | | Slurry Yield | 1.941 | ft3/sack |
| | | | | | | Water Requirement | 9.623 | gal/sack |
| | | | | | | Total Mix Fluid | 9.623 | gal/sack |
| | | | | | | Water Source | Fresh Water | |
| | | | | | | Water Chloride | | |

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Thickening Time - ON-OFF-ON

21/MAR/2018

| Test Temp (degF) | Pressure (psi) | Reached in (min) | 30 Bc (hh:min) | 50 Bc (hh:min) | 70 Bc (hh:min) | Start Bc | Stirring before stop (mins) | Static Period (min) | Peak reading (BC) | Termination time (hh:min) | Termination Bc |
|------------------|----------------|------------------|----------------|----------------|----------------|----------|-----------------------------|---------------------|-------------------|---------------------------|----------------|
| 169 | 4614 | 39 | 4:07 | 4:25 | 5:08 | 11 | 49 | 15 | 17 | 11:34 | 91 |



Total sks = 755
 Composite:
 CS0681 TR#8678 377.5 SKS
 CS0683 TR#1656 377.5 SKS
 Deflected 12-- > 17

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Job Information

| | | | | | |
|-----------------------|----------------|-----------------|-------------------|-------------------|-----------------------|
| Request/Slurry | 2461539/1 | Rig Name | H&P 522 | Date | 19/MAR/2018 |
| Submitted By | Lukas Van Zyl | Job Type | Production Casing | Bulk Plant | Grand Junction |
| Customer | Laramie Energy | Location | Garfield | Well | Gunderson 0994-13-12W |

Well Information

| | | | | | |
|--------------------------|----------|------------------|---------|-------------|---------------|
| Casing/Liner Size | 4.5 in | Depth MD | 7649 ft | BHST | 113°C / 236°F |
| Hole Size | 7.875 in | Depth TVD | 7592 ft | BHCT | 76°C / 169°F |
| Pressure | 4614 psi | | | | |

Drilling Fluid Information

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

Cement Information - Tail Design 

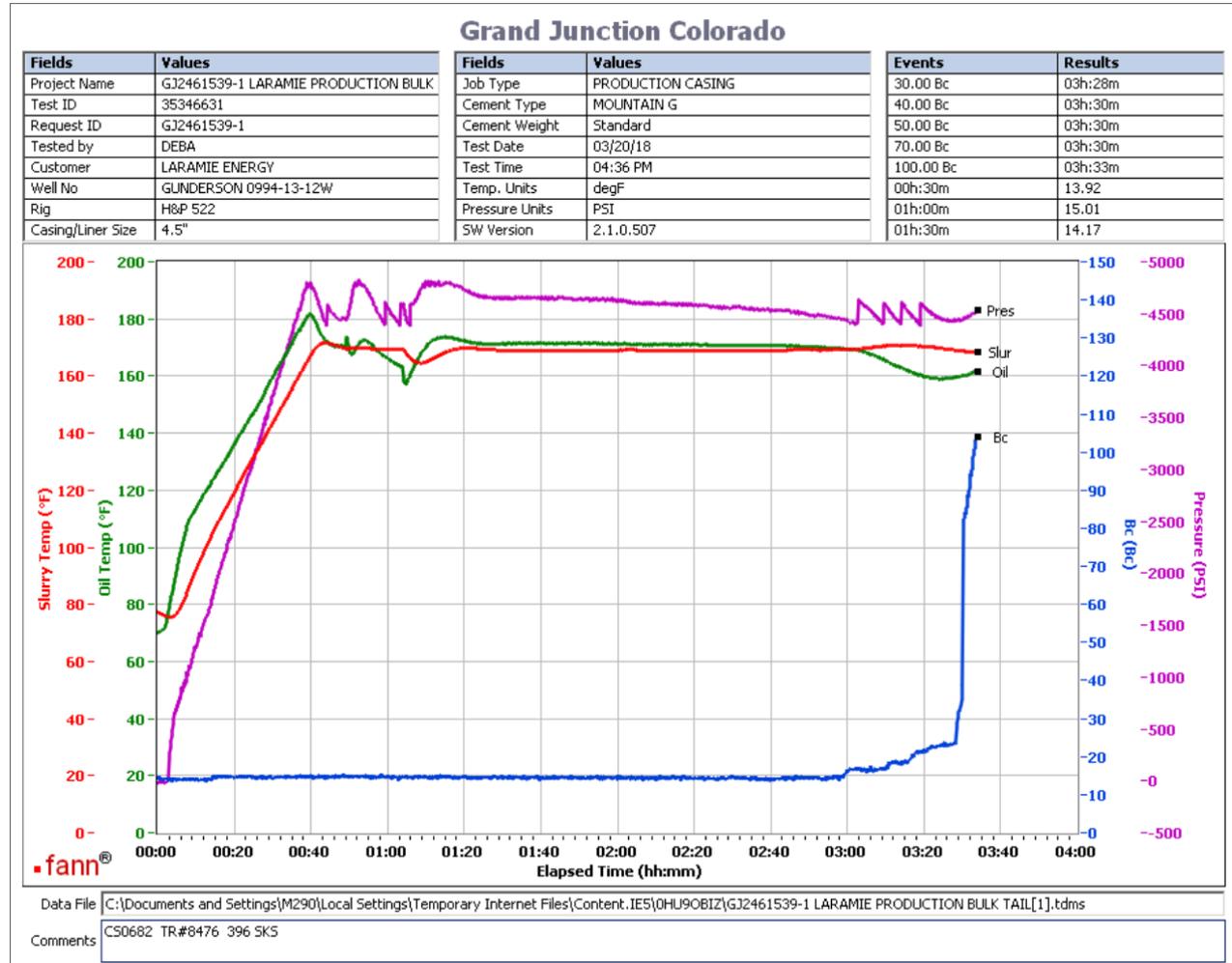
| <u>Conc</u> | <u>UOM</u> | <u>Cement/Additive</u> | <u>Sample Type</u> | <u>Sample Date</u> | <u>Lot No.</u> | Cement Properties | | |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|-------------|----------|
| | | ThermaCem Tail | | | | Slurry Density | 13.3 | lbm/gal |
| | | | | | | Slurry Yield | 1.733 | ft3/sack |
| | | | | | | Water Requirement | 7.799 | gal/sack |
| | | | | | | Total Mix Fluid | 7.799 | gal/sack |
| | | | | | | Water Source | Fresh Water | |
| | | | | | | Water Chloride | | |

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Thickening Time - ON-OFF-ON

21/MAR/2018

| Test Temp (degF) | Pressure (psi) | Reached in (min) | 30 Bc (hh:min) | 50 Bc (hh:min) | 70 Bc (hh:min) | 100 Bc (hh:min) | Start Bc | Stirring before stop (mins) | Static Period (min) | Peak reading (BC) |
|------------------|----------------|------------------|----------------|----------------|----------------|-----------------|----------|-----------------------------|---------------------|-------------------|
| 169 | 4614 | 39 | 3:28 | 3:30 | 3:30 | 3:30 | 14 | 49 | 15 | 15 |



Total sks = 396
 CS0682 TR#8476 396 SKS
 No deflection. Please note heat of hydration started around 2:59.

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.