

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Monday, February 19, 2018

PA 414-24 Production

API#05-045-23653

Sincerely,

Grand Junction Cement Engineering

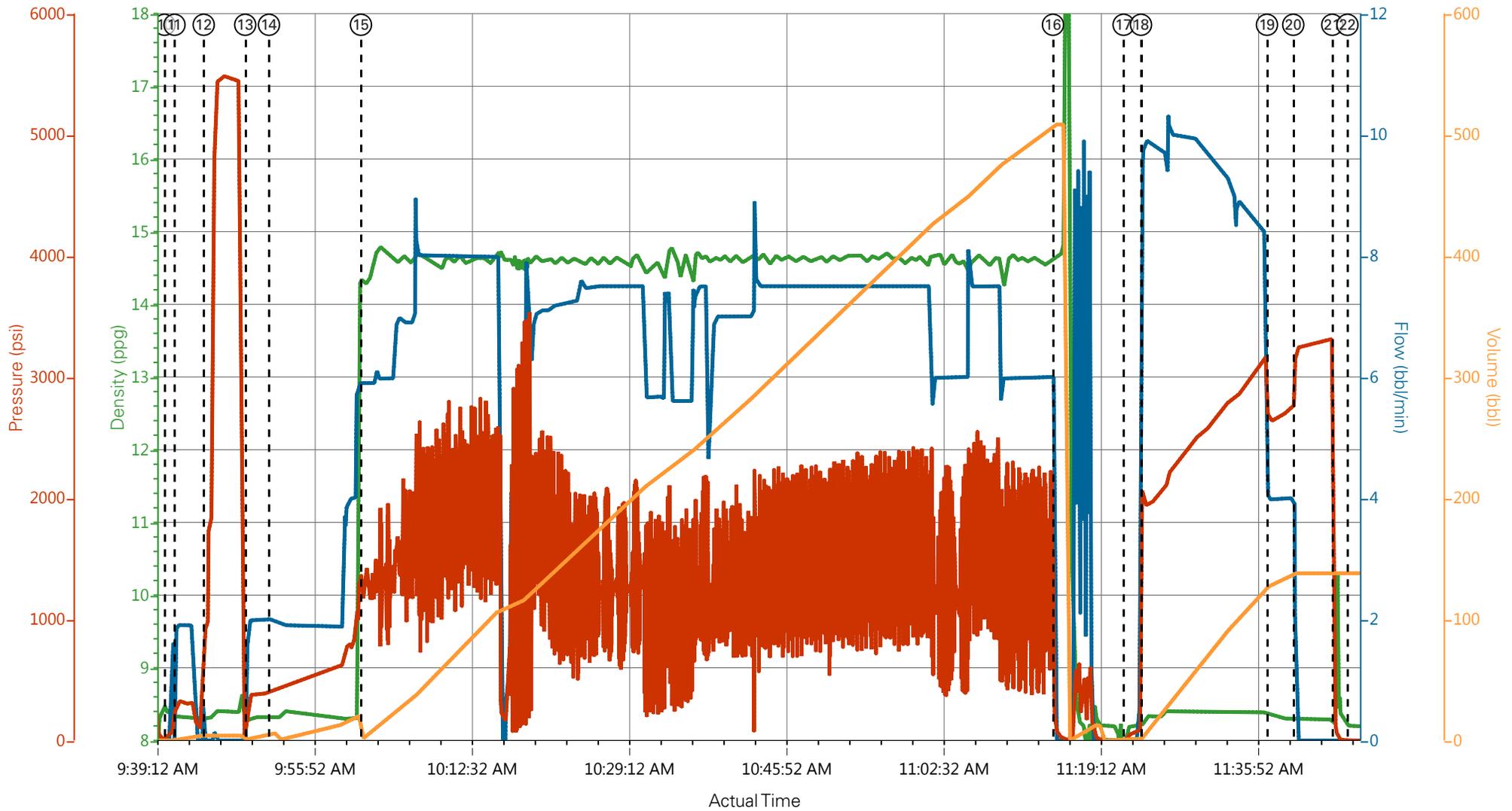
2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq. No. | Graph Label | Date | Time | Source | Downhole Density <i>(ppg)</i> | Combined Pump Rate <i>(bbl/min)</i> | Driv-Side Pump Pressure <i>(psi)</i> | Pump Stage Total <i>(bbl)</i> | Comments |
|-------|----------|---------------------------------------|-----------|----------|--------|----------------------------------|--|---|----------------------------------|---|
| Event | 1 | Call Out | 2/18/2018 | 20:00:00 | | | | | | Requested on Location @ 02:30 |
| Event | 2 | Pre-Convoy Safety Meeting | 2/18/2018 | 22:00:00 | | | | | | |
| Event | 3 | Crew Leave Yard | 2/18/2018 | 22:15:00 | | | | | | 1 Elite, 1 660, 1 pickup |
| Event | 4 | Arrive At Loc | 2/19/2018 | 02:30:00 | | | | | | Rig running casing |
| Event | 5 | Assessment Of Location Safety Meeting | 2/19/2018 | 02:35:00 | | | | | | JSA completed - Customer offered/received SDS - water test pH 7.0, CI <200, temp 60 degrees |
| Event | 6 | Pre-Rig Up Safety Meeting | 2/19/2018 | 02:45:00 | | | | | | |
| Event | 7 | Rig-Up Equipment | 2/19/2018 | 03:00:00 | | | | | | DME iron to ground manifold, standpipe, hardline to pit. Water hoses to uprights, bulk hoses to silo and 660. |
| Event | 8 | Pre-Job Safety Meeting | 2/19/2018 | 08:30:00 | | | | | | All HES personnel, rig crew, and company rep. |
| Event | 9 | Other | 2/19/2018 | 08:35:00 | | | | | | Rig Circulated 2 hrs prior to cement job at 10 bpm 1093 psi. |
| Event | 10 | Start Job | 2/19/2018 | 09:40:17 | | | | | | |
| Event | 11 | Fill Lines | 2/19/2018 | 09:41:21 | | 8.33 | 2 | 360 | 5 | Fresh Water |
| Event | 12 | Test Lines | 2/19/2018 | 09:44:27 | | | | 5578 | | Held pressure 2 minutes |
| Event | 13 | Pump Spacer | 2/19/2018 | 09:48:51 | | 8.33 | 2 | 390 | 5 | Fresh Water |
| Event | 14 | Pump Mud Flush | 2/19/2018 | 09:51:22 | | 8.4 | 4 | 850 | 20 | 80 lbs. Mud Flush III |
| Event | 15 | Pump Cement | 2/19/2018 | 10:01:07 | | 14.5 | 7.5 | 2150 | 472.5 | 2010 sks, 14.5 ppg, 1.32 yield, 5.85 gal/sk |
| Event | 16 | Shutdown | 2/19/2018 | 11:14:27 | | | | | | Wash lines to pit |
| Event | 17 | Drop Top Plug | 2/19/2018 | 11:21:57 | | | | | | Co-Rep Verify Plug Launched |
| Event | 18 | Pump Displacement | 2/19/2018 | 11:23:47 | | 8.4 | 10 | 3152 | 137.8 | 3 lbs BE-6, 1 gal MMCR, 2% KCl |

| | | | | | | | | | |
|-------|----|-----------------------------|-----------|----------|-----|---|------|-----|--|
| Event | 19 | Slow Rate | 2/19/2018 | 11:37:08 | 8.4 | 4 | 2700 | 127 | Slow Rate 10 bbls to Calculated Displacement |
| Event | 20 | Bump Plug | 2/19/2018 | 11:39:56 | | | 3250 | | Plug Bumped at 2700 psi, Brought up to 3200 psi |
| Event | 21 | Check Floats | 2/19/2018 | 11:44:04 | | | | | Floats Held-1 ½ bbl back to truck |
| Event | 22 | End Job | 2/19/2018 | 11:45:40 | | | | | Good returns throughout job. Pipe was reciprocated during job. |
| Event | 23 | Pre-Rig Down Safety Meeting | 2/19/2018 | 12:07:16 | | | | | No sugar, HES top plug used, 2 add hours |
| Event | 24 | Rig-Down Equipment | 2/19/2018 | 12:10:47 | | | | | |
| Event | 25 | Pre-Convoy Safety Meeting | 2/19/2018 | 12:19:38 | | | | | |
| Event | 26 | Crew Leave Location | 2/19/2018 | 12:25:38 | | | | | Thanks For Using Halliburton Cement. Chris Martinez And Crew |

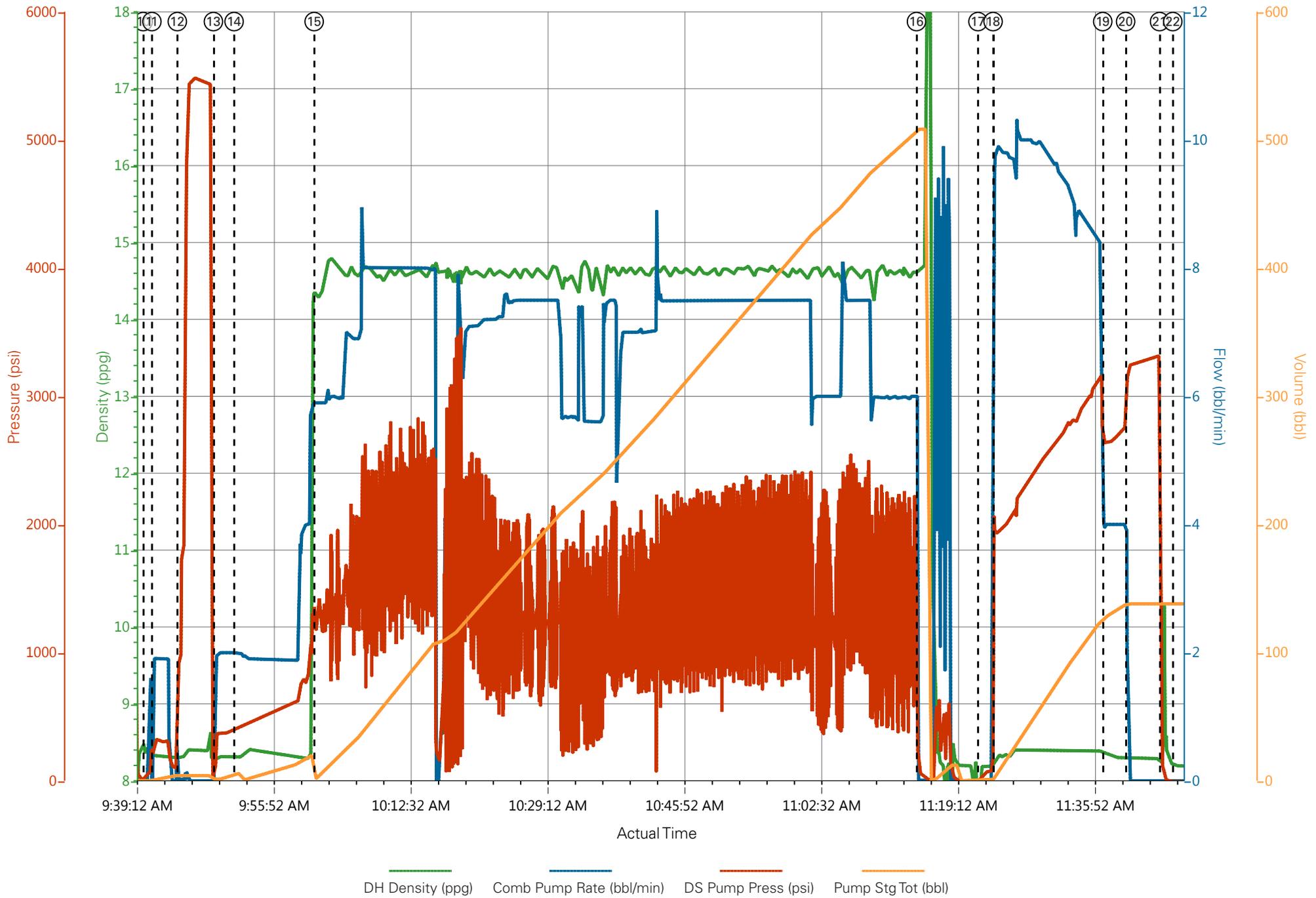
PA 414-24 Production



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

| | | | | |
|---|-------------------------------|-----------------------------------|---------------------------------------|--|
| ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑨ Other 0.01;0;0;0 | ⑬ Pump Spacer 8.29;2;363;0.4 | ⑰ Drop Top Plug 8.19;0;8;0 | 21 Check Floats 8.22;0;96;138.1 |
| ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑩ Start Job 8.44;0;28;0 | ⑭ Pump Mud Flush 8.31;1.9;412;5.4 | ⑱ Pump Displacement 8.24;9.9;1930;4.2 | 22 End Job 8.2;0;-8;138.1 |
| ⑦ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑪ Fill Lines 8.34;1.9;328;0.7 | ⑮ Pump Cement 14.24;5.9;1329;2.6 | ⑲ Slow Rate 8.37;4;2624;128 | 23 Pre-Rig Down Safety Meeting n/a;n/a;n/a;n/a |
| ⑧ Pre-Job Safety Meeting 0;0;1;0 | ⑫ Test Lines 8.3;0;919;4 | ⑯ Shutdown 14.66;0;79;508.5 | 20 Bump Plug 8.31;0;3231;138.1 | 24 Rig-Down Equipment n/a;n/a;n/a;n/a |

PA 414-24 Production



Job Information

| | | | | | |
|-----------------------|-----------------------|-----------------|-------------------|-------------------|----------------|
| Request/Slurry | 2453074/2 | Rig Name | H&P 271 | Date | 13/FEB/2018 |
| Submitted By | Patrick Ealey | Job Type | Production Casing | Bulk Plant | Grand Junction |
| Customer | Terra Energy Partners | Location | Garfield | Well | PA 414-24 |

Well Information

| | | | | | |
|--------------------------|----------|------------------|---------|-------------|---------------|
| Casing/Liner Size | 4.5 in | Depth MD | 8920 ft | BHST | 102°C / 216°F |
| Hole Size | 8.75 in | Depth TVD | 7977 ft | BHCT | 63°C / 146°F |
| Pressure | 4884 psi | | | | |

Drilling Fluid Information

| | | | | | |
|--------------------------|-----|-----------------------|--|----------------|--|
| Mud Supplier Name | AMC | Mud Trade Name | | Density | |
|--------------------------|-----|-----------------------|--|----------------|--|

Cement Information - Primary 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> | | |
|-------------|------------|------------------------|--------------------|--------------------|----------------|--------------------------|-------------|-----------------------|
| | | VariCem | | | | Slurry Density | 14.5 | lbm/gal |
| | | | | | | Slurry Yield | 1.32 | ft ³ /sack |
| | | | | | | Water Requirement | 5.852 | gal/sack |
| | | | | | | Total Mix Fluid | 5.852 | 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.

Operation Test Results Request ID 2453074/2

Thickening Time - ON-OFF-ON

15/FEB/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) |
|------------------|----------------|------------------|----------------|----------------|----------------|-----------------|----------|-----------------------------|---------------------|-------------------|
| 146 | 4884 | 50 | 4:21 | 4:21 | 4:21 | 4:21 | 11 | 60 | 15 | 13 |

Composite:

CS0440 TR#2878 450 SKS

CS0441 TR 1656 450 SKS

CS0442 TR 2398 210 SKS

deflected from 14Bc--- > 13Bc

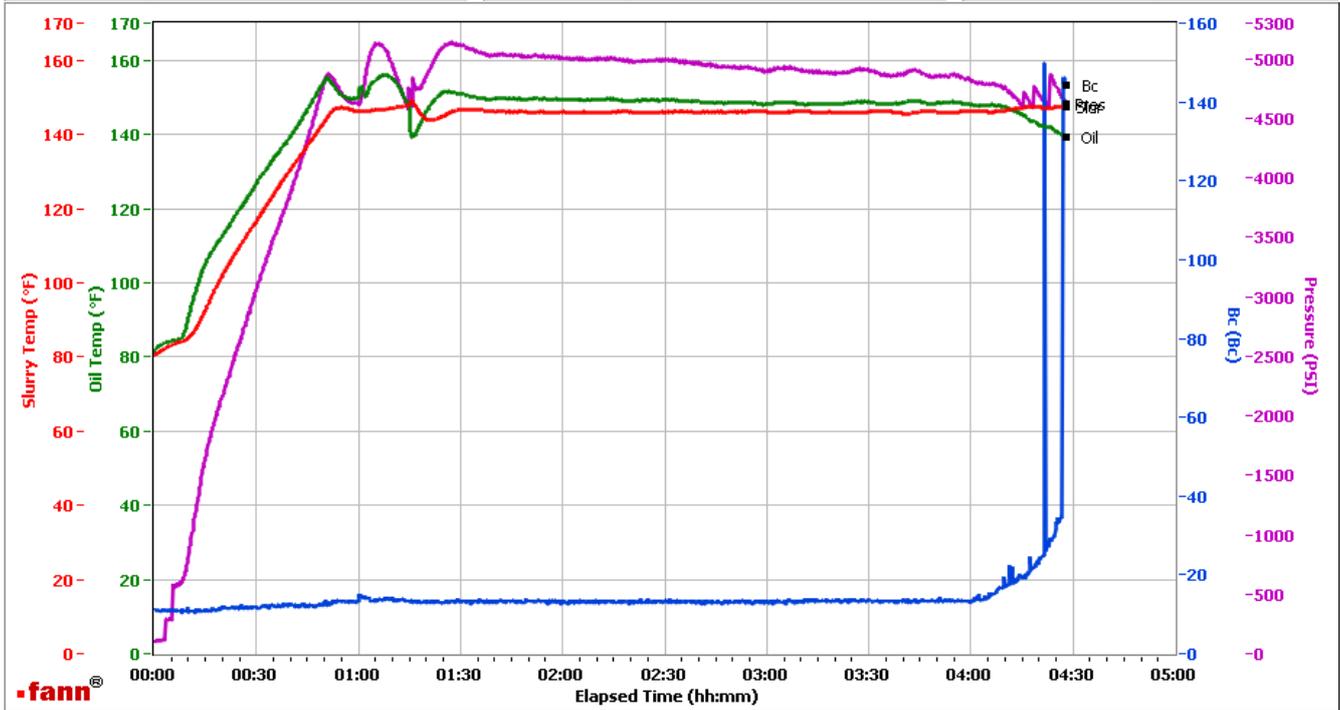
Heat of hydration at 4:13 should be the pump off

Grand Junction Colorado

| Fields | Values |
|-------------------|-------------------------------------|
| Project Name | GJ2453074-2 TERRA PRODUCTION PRIMAR |
| Test ID | 35256459 |
| Request ID | 2453074-2 |
| Tested by | JASON |
| Customer | TERRA ENERGY PARTNERS |
| Well No | PA 414-24 |
| Rig | H&P 271 |
| Casing/Liner Size | 4.5 INCH |

| Fields | Values |
|----------------|------------|
| Job Type | PRODUCTION |
| Cement Type | MOUNTAIN G |
| Cement Weight | Standard |
| Test Date | 02/15/18 |
| Test Time | 02:29 AM |
| Temp. Units | degF |
| Pressure Units | PSI |
| SW Version | 2.1.0.507 |

| Events | Results |
|-----------|---------|
| 30.00 Bc | 04h:21m |
| 40.00 Bc | 04h:21m |
| 50.00 Bc | 04h:21m |
| 70.00 Bc | 04h:21m |
| 100.00 Bc | 04h:21m |
| 00h:30m | 11.60 |
| 01h:00m | 13.27 |
| 01h:30m | 13.43 |



Data File C:\Documents and Settings\Administrator\Local Settings\Temporary Internet Files\Content.IE5\O3KLGZYZ\GJ2453074-2 TERRA PRODUCTION PRIMARY BULK[1].tdms
 Comments CS0440 TR 2878 450 SKS CS0441 TR 1656 450 SKS CS0442 TR 2398 210 SKS

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.

Operation Test Results Request ID 2453074/1

Thickening Time - ON-OFF-ON

14/FEB/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) |
|------------------|----------------|------------------|----------------|----------------|----------------|-----------------|----------|-----------------------------|---------------------|-------------------|
| 146 | 4884 | 50 | 3:44 | 3:53 | 3:57 | 4:00 | 76 | 60 | 15 | 28 |

2010 sks Total

Composite:

CS0438 TR# 8677 450 sks

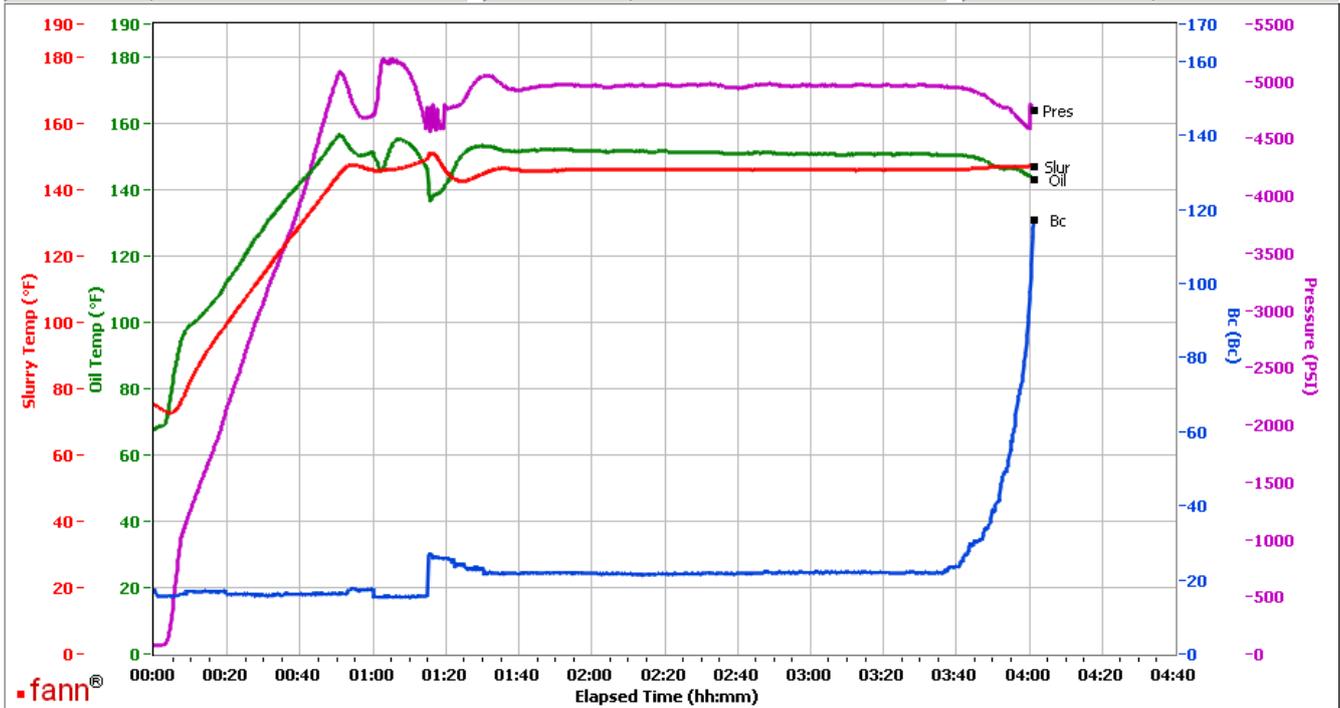
CS0439 TR# 8678 450 sks

Grand Junction Colorado

| Fields | Values |
|-------------------|--------------------------------------|
| Project Name | GJ2453074-1 TERRA PRODUCTION BULK PR |
| Test ID | 35253423 |
| Request ID | GJ2453074-1 |
| Tested by | DEBA |
| Customer | TERRA ENERGY PARTNERS |
| Well No | PA 414-24 |
| Rig | H&P 271 |
| Casing/Liner Size | 4.5" |

| Fields | Values |
|----------------|-------------------|
| Job Type | PRODUCTION CASING |
| Cement Type | MOUNTAIN G |
| Cement Weight | Standard |
| Test Date | 02/14/18 |
| Test Time | 08:26 PM |
| Temp. Units | degF |
| Pressure Units | PSI |
| SW Version | 2.1.0.507 |

| Events | Results |
|-----------|---------|
| 30.00 Bc | 03h:44m |
| 40.00 Bc | 03h:50m |
| 50.00 Bc | 03h:53m |
| 70.00 Bc | 03h:57m |
| 100.00 Bc | 04h:00m |
| 00h:30m | 15.77 |
| 01h:00m | 17.37 |
| 01h:30m | 23.14 |



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\4TIJ89YN\GJ2453074-1 TERRA PRODUCTION BULK PRIMARY[1].tdms

Comments COMPOSITE: CS0438 TR#8677 450 SKS AND CS0439 TR#8678 450 SKS

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.