



POST-STIMULATION REPORT

Northeast Natural Energy, LLC

Boggess 9H (Stages 1-57)

Marcellus Shale Formation

Monongalia County, WV

Treatment Dates: 8/5/2019 – 8/28/2019

Treatment Type: Slickwater

Service District: Zanesville, OH

Prepared For:

Criss VanGilder

Completions Manager

Northeast Natural Energy, LLC

48 Donley Street, Suite 601

Morgantown, WV 26501

Prepared By:

Cole Bernstiel

District Field Engineer

109 S. Graham St

Zanesville, OH 43701

cbernstiel@producersservicecorp.com

A 100% employee owned company



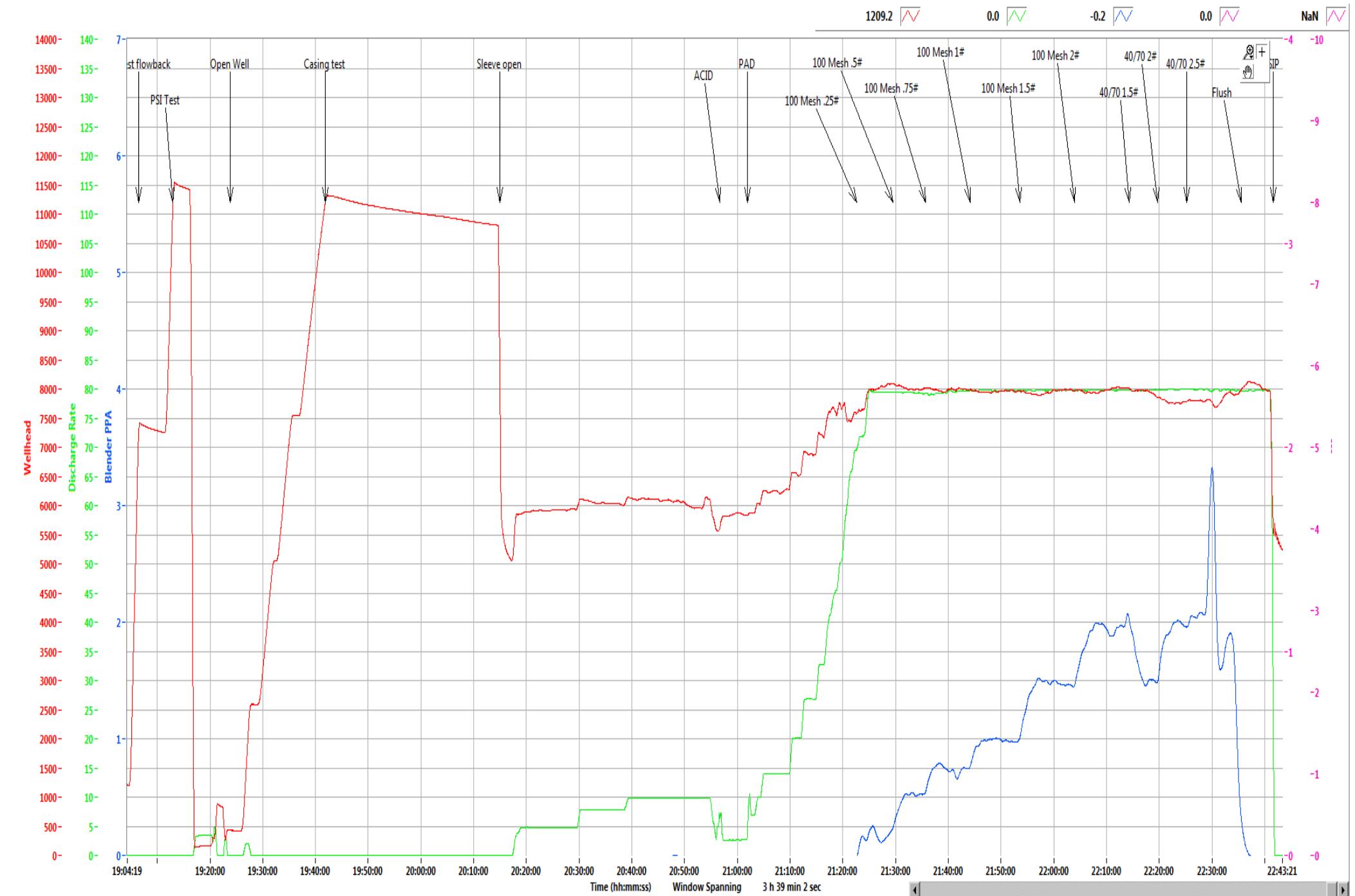
OPERATIONAL SUMMARY

PSC appreciates the opportunity to complete the stimulation of the Boggess 9H well. 57 Stages were completed from August 5th, 2019 to August 28th, 2019. Average treating pressure was 8208 psi at an average rate of 80.2 bpm. Average pump time was 2 hour and 4 minutes. 16,966,620 lbs of 100 mesh sand and 5,590,360 lbs of 40/70 sand was placed for a total of 22,556,980 lbs which is 99% of the designed volume. 86,000 gal of 7.5% HCl was utilized during the stimulation treatment.

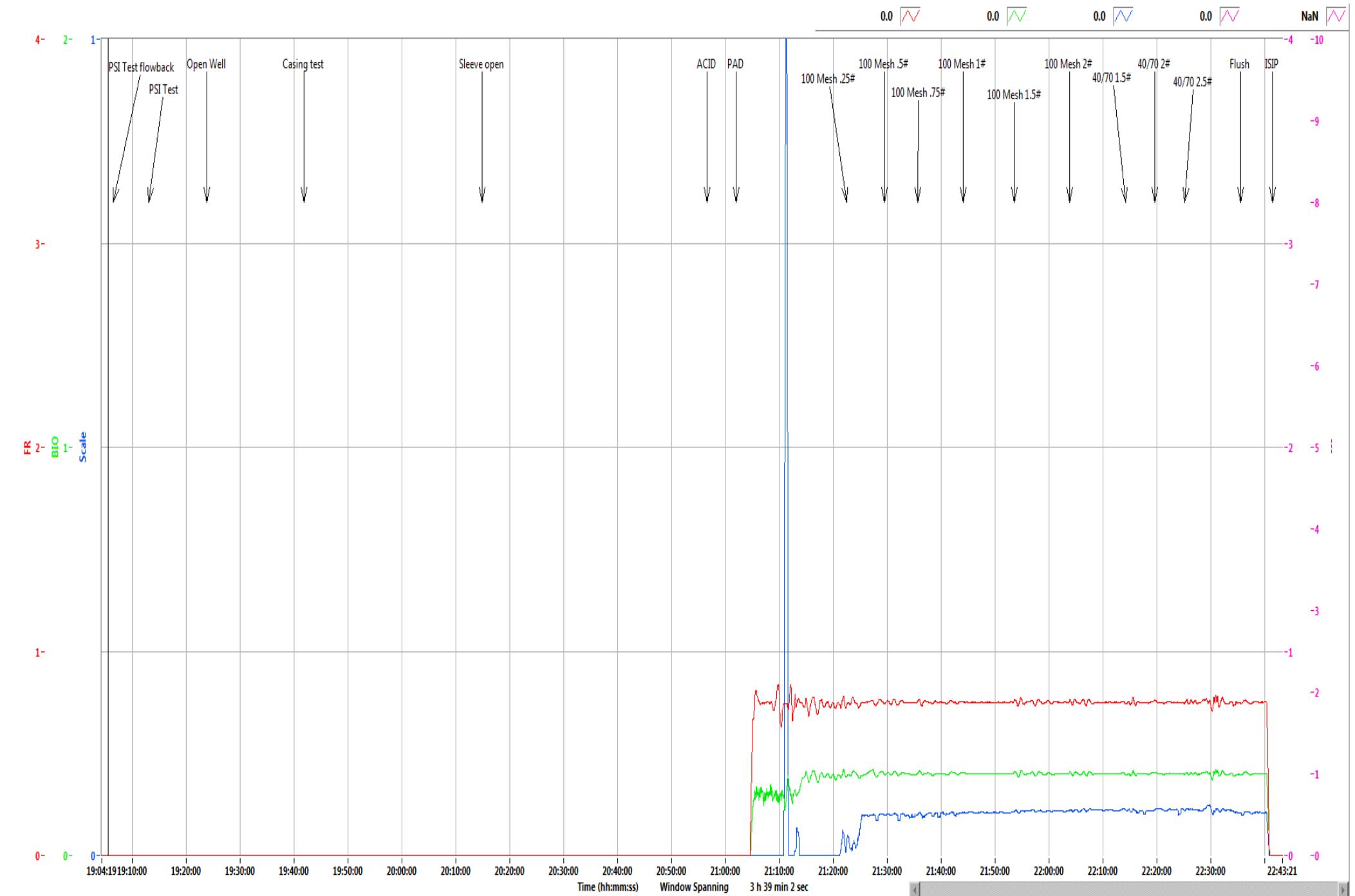


NNE
Boggess 9H
Stage 1
Producers Service Corp.

Post Stage Report
August 5, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 1 |
| Date: | 8/5/19 |
| OWP (psi): | 427 |
| Starting Time | 7:23 PM |
| Ending Time | 10:41 PM |
| Pump Time (hr:min) | 03:18 |
| Swap Time (hr:min) | 00:00 |
| Starting # Pumps | 15 |
| Finishing # Pumps | 14 |
| TVD (ft) | 0 |

Pressures & Rates

| | |
|----------------------------------|---------|
| Breakdown Pressure (psi) | |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 7,942 |
| Maximum Treating Rate (bbl/min) | 80 |
| Maximum Treating Pressure (psi) | 8,187 |
| Displacement (psi) | 8,003 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,285 |
| Final FG (psi/ft) | #DIV/0! |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 6,729 |
| Acid 7.5% HCL (gal) | 3,000 |
| Wireline Pump Down (bbls) | |
| Pad (bbls) | 918 |
| Treatment (bbls) | 5,432 |
| Displacement (bbls) | 445 |
| (Acid Included)Total Fluid (bbls) | 6,800 |
| Dirty Job Total (bbls) | 7,167 |
| 100 Mesh | 180,060 |
| 40/70 | 120,120 |
| Total Proppant (lbs) | 300,180 |
| Total Proppant % | 75.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 205 |
| DRB-LT | |
| Biocide | 68 |
| Scale | 14 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22852
Date: 8/5/2019
Well Name: Boggess 9H
Stage No.: 1

State: WV
County: Monongahela
Operator: ECK/BACK
PO/AFE: 0

(Print Name)

Customer Rep:

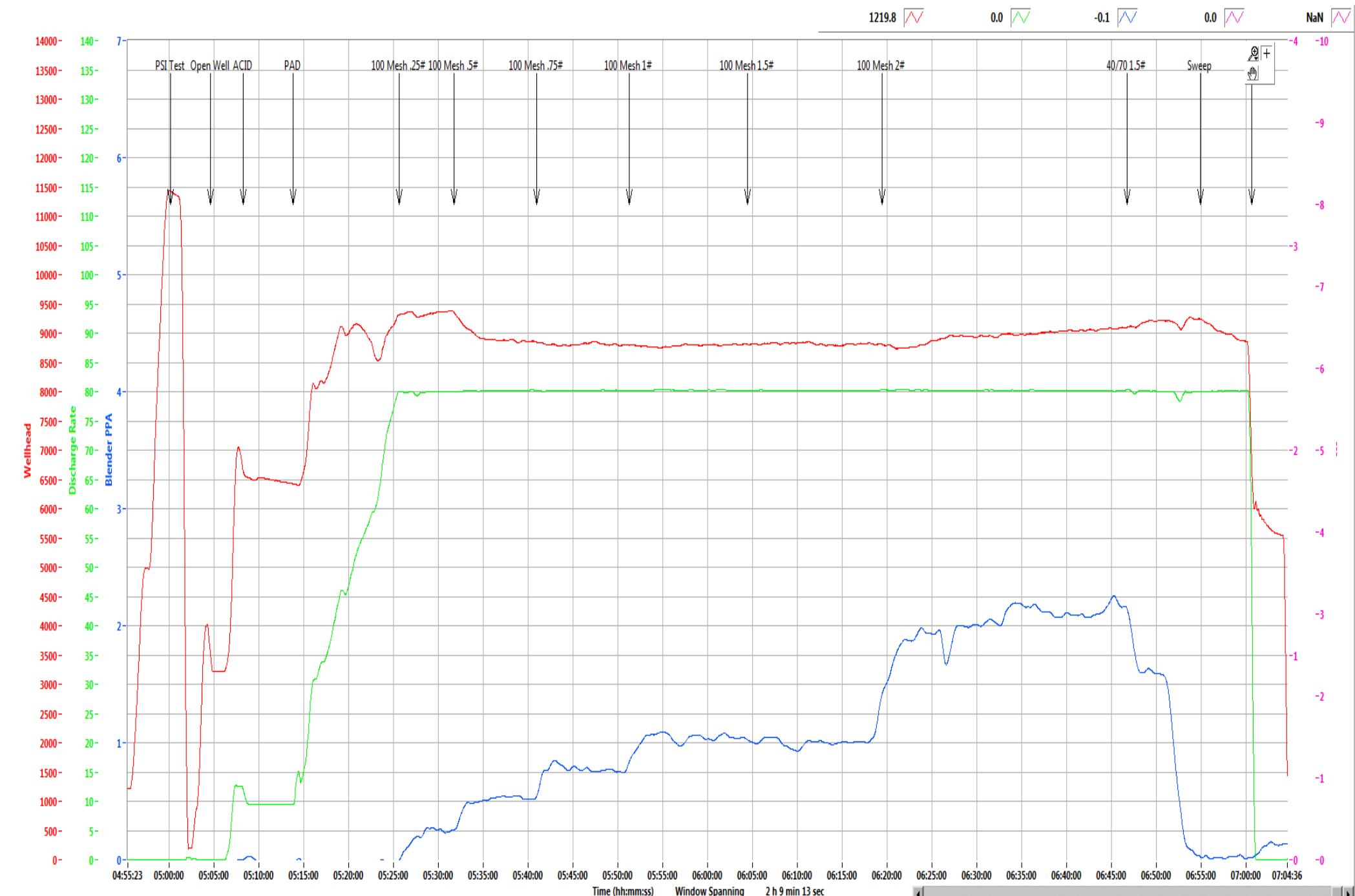
Customer Signature:

| | | |
|----------------------|----|-----------|
| Total No Discount | \$ | 53,775.90 |
| 25% Discount Applied | \$ | 13,443.98 |
| Net Stage Total | \$ | 40,331.93 |

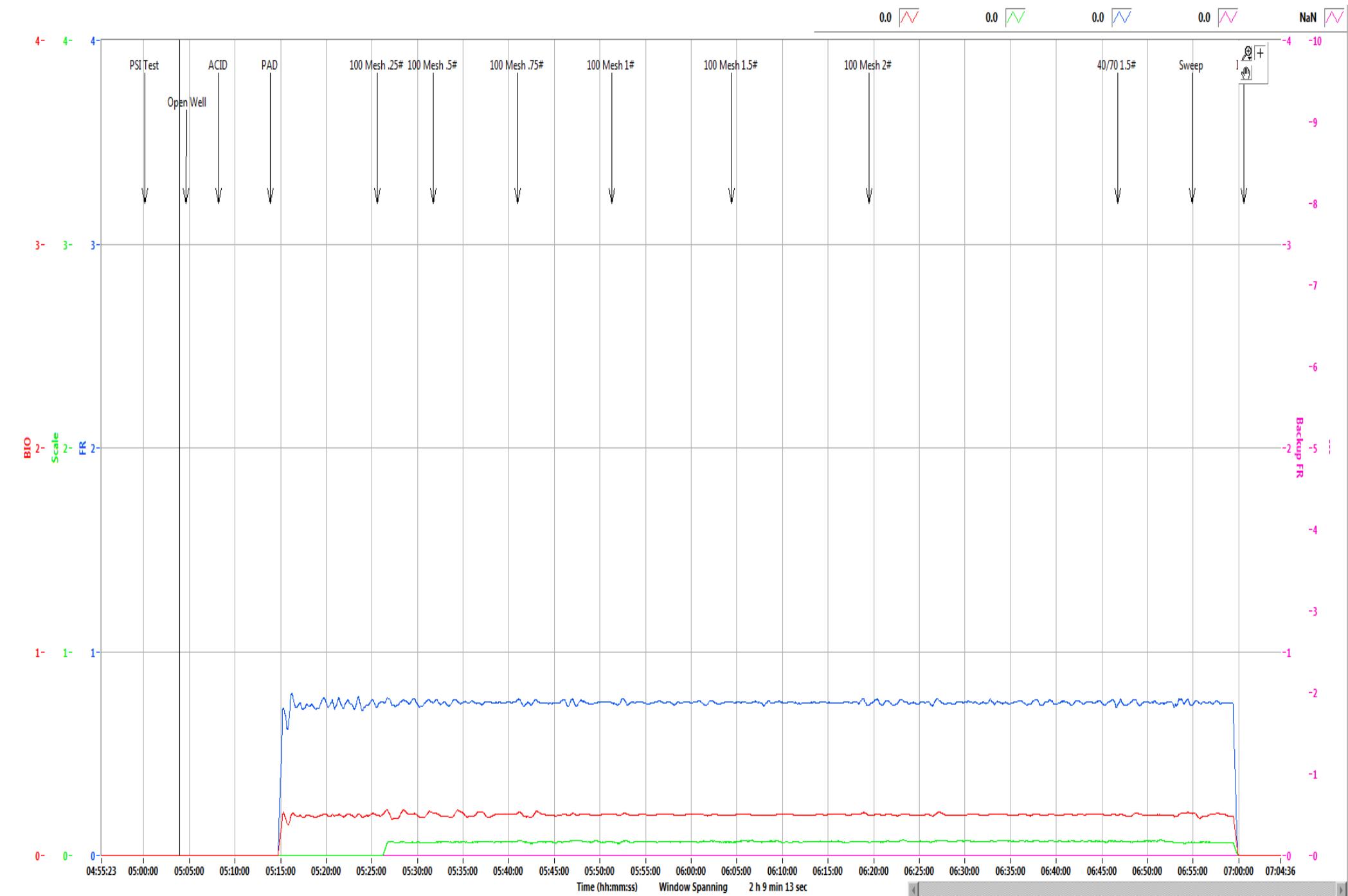


**NNE
Boggess 9H
Stage 2
Producers Service Corp.**

**Post Stage Report
August 6, 2019**



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|---------------------------|---------|
| Stage | 2 |
| Date: | 8/6/19 |
| OWP (psi): | 3,215 |
| Starting Time | 5:04 AM |
| Ending Time | 7:00 AM |
| Pump Time (hr:min) | 01:56 |
| Swap Time (hr:min) | 06:23 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|---|-------|
| Breakdown Pressure (psi) | 7,093 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,938 |
| Maximum Treating Rate (bbl/min) | 80 |
| Maximum Treating Pressure (psi) | 9,434 |
| Displacement (psi) | 9,233 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 5,378 |
| Final FG (psi/ft) | 1.10 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|---|---------|
| Slickwater (bbls) | 7,784 |
| Acid 7.5% HCL (gal) | 3,000 |
| Wireline Pump Down (bbls) | 624 |
| Pad (bbls) | 554 |
| Treatment (bbls) | 7,301 |
| Displacement (bbls) | 438 |
| (Acid Included) Total Fluid (bbls) | 7,855 |
| Dirty Job Total (bbls) | 8,235 |
| 100 Mesh | 320,400 |
| 40/70 | |
| Total Proppant (lbs) | 320,400 |
| Total Proppant % | 80.1% |

CHEMICALS

| | |
|----------------|-----|
| FR 9800 | 256 |
| DRB-LT | |
| Biocide | 74 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22853
Date: 8/6/2019
Well Name: Boggess 9H
Stage No.: 2

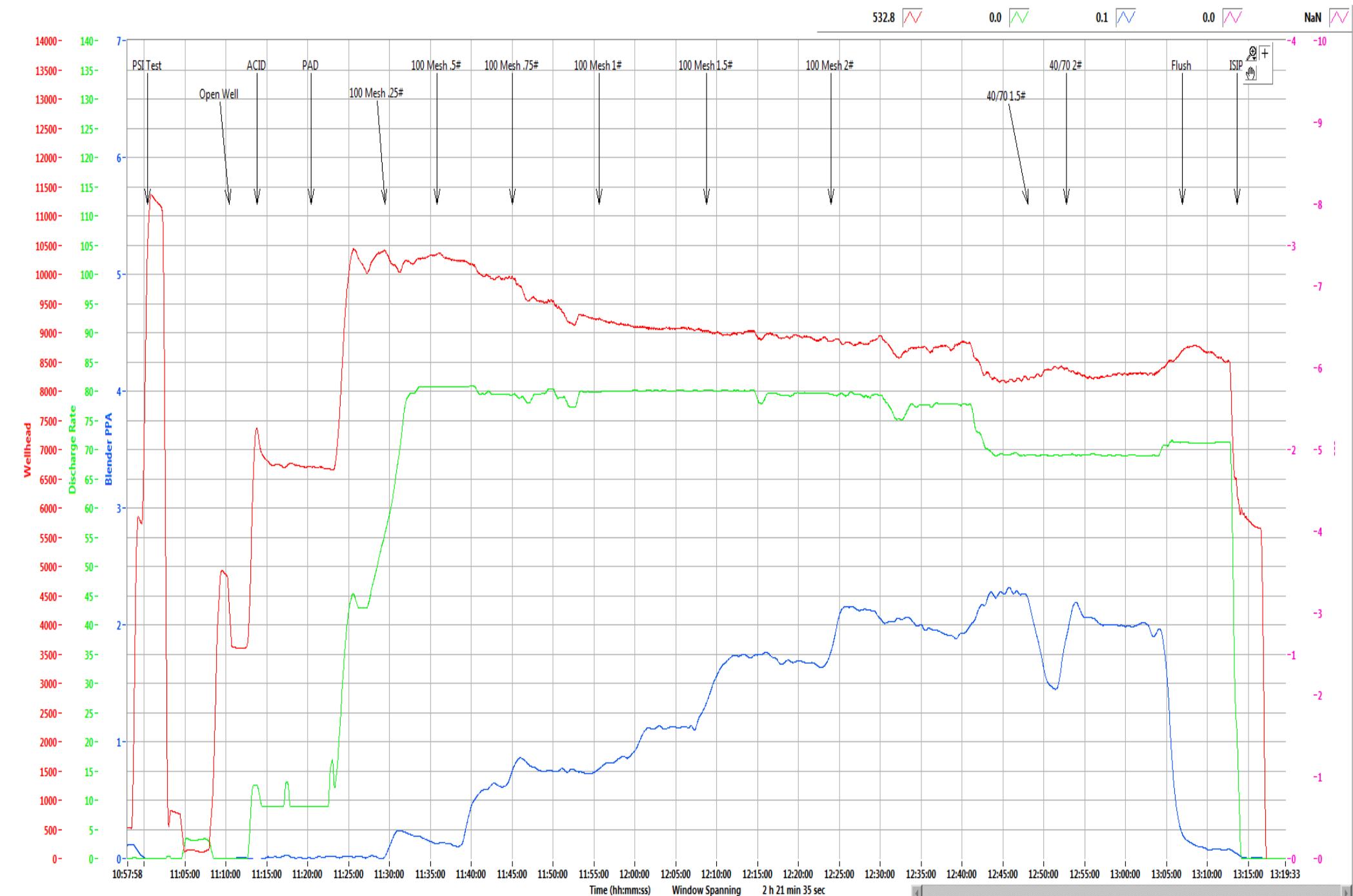
State: WV
County: Monongahela
Operator: Joe/Jamie/Brad
PO/AFE: 100347-604

(Print Name)
Customer Re

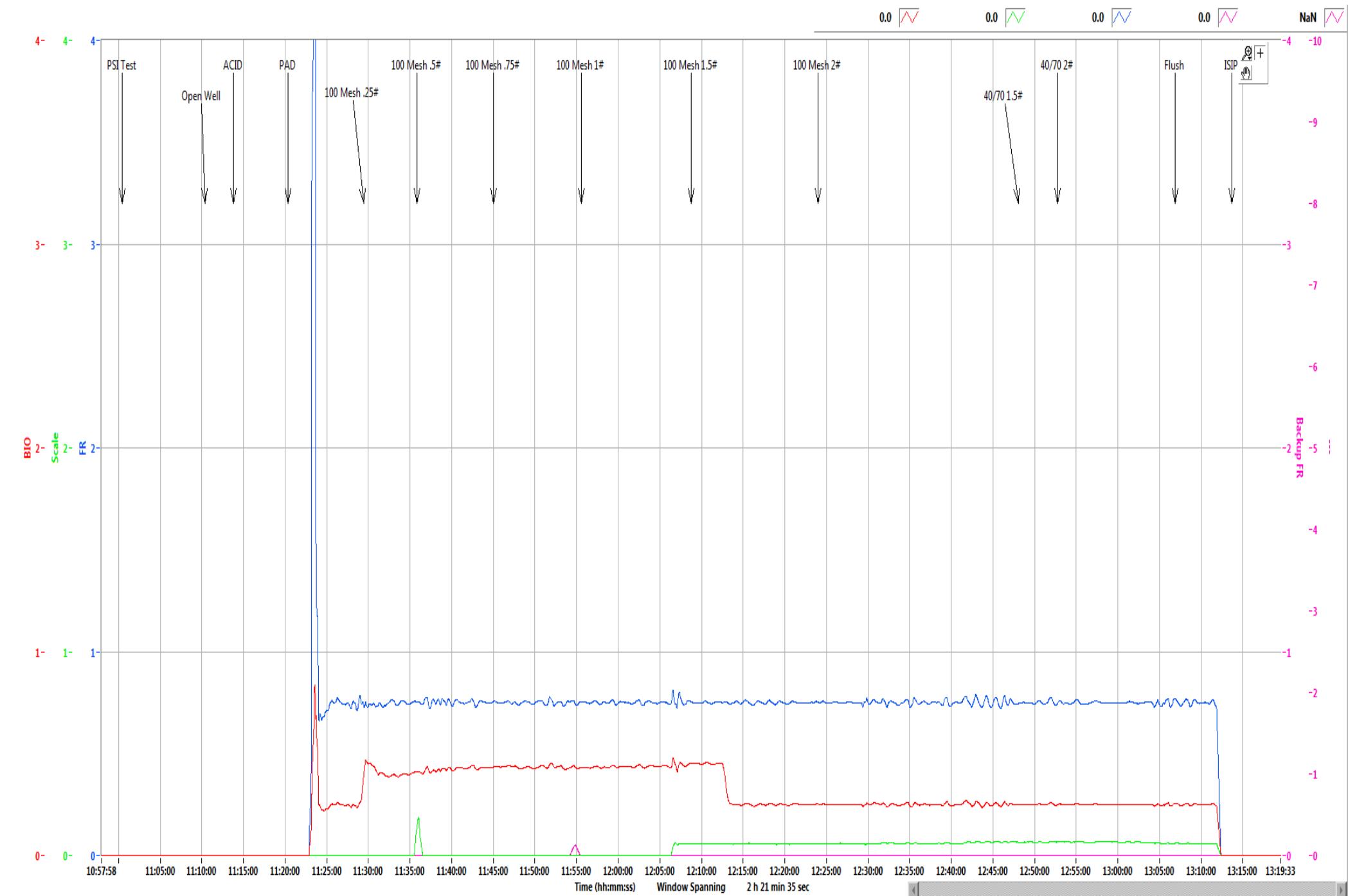


NNE
Boggess 9H
Stage 3
Producers Service Corp.

Post Stage Report
August 6, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 3 |
| Date: | 8/6/19 |
| OWP (psi): | 3,641 |
| Starting Time | 11:10 AM |
| Ending Time | 1:13 PM |
| Pump Time (hr:min) | 02:03 |
| Swap Time (hr:min) | 04:10 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 13 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 7,509 |
| Average Treating Rate (bbl/min) | 77 |
| Average Treating Pressure (psi) | 9,016 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 10,523 |
| Displacement (psi) | 8,747 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 5,401 |
| Final FG (psi/ft) | 1.11 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,757 |
| Acid 7.5% HCL (gal) | 3,000 |
| Wireline Pump Down (bbls) | 637 |
| Pad (bbls) | 366 |
| Treatment (bbls) | 7,017 |
| Displacement (bbls) | 438 |
| (Acid Included)Total Fluid (bbls) | 7,828 |
| Dirty Job Total (bbls) | 8,263 |
| 100 Mesh | 299,700 |
| 40/70 | 92,280 |
| Total Proppant (lbs) | 391,980 |
| Total Proppant % | 98.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 249 |
| DRB-LT | |
| Biocide | 91 |
| Scale | 17 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22853 |
| Date: | 8/6/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 3 |

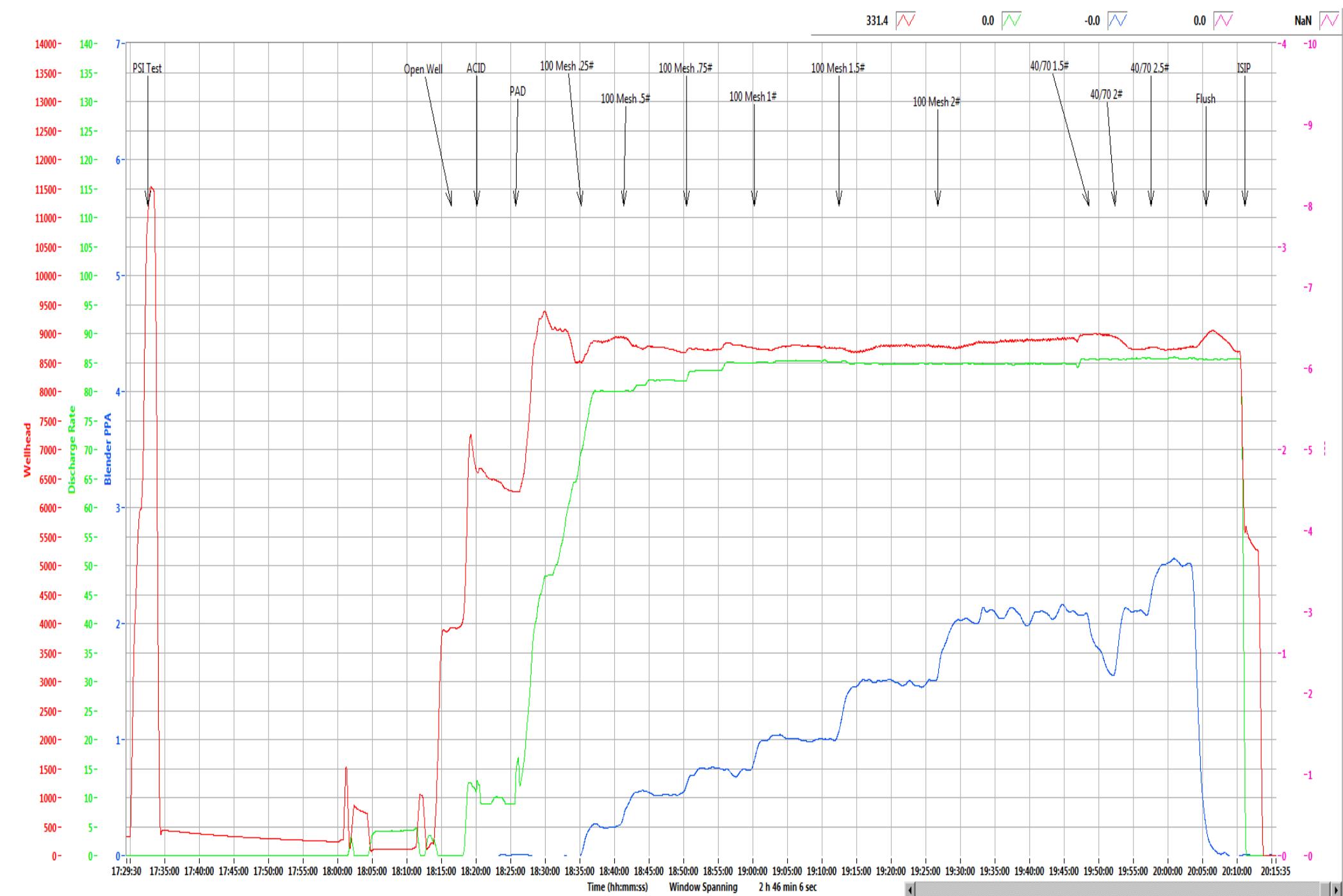
State: WV
County: Monongahela
Operator: Joe/Jamie/Brad
PO/AFE: 100347-604

(Print Name)
Customer Re

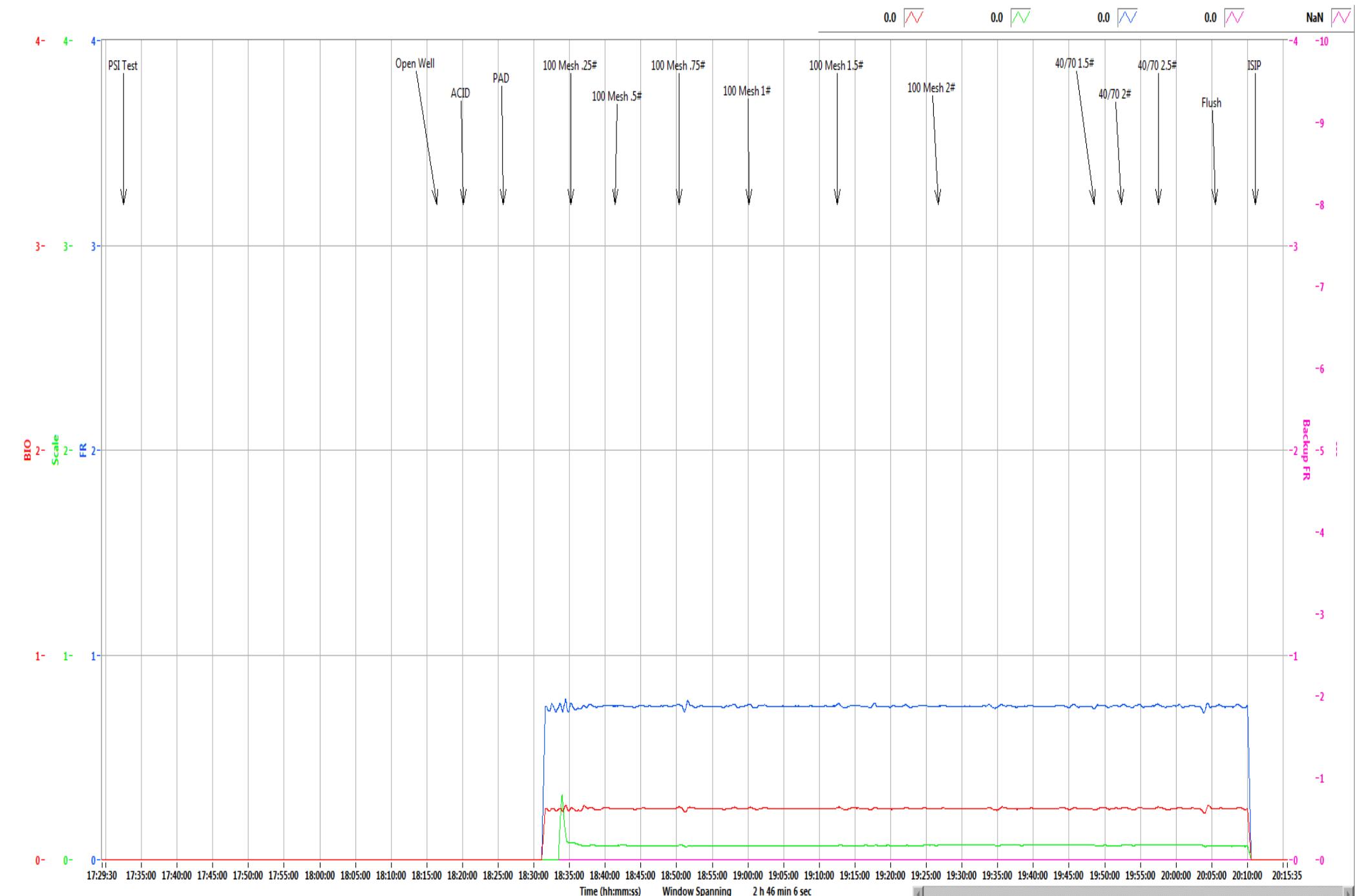


NNE
Boggess 9H
Stage 4
Producers Service Corp.

Post Stage Report
August 6, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 4 |
| Date: | 8/6/19 |
| OWP (psi): | 3,922 |
| Starting Time | 6:16 PM |
| Ending Time | 8:11 PM |
| Pump Time (hr:min) | 01:55 |
| Swap Time (hr:min) | 05:03 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 7,376 |
| Average Treating Rate (bbl/min) | 82 |
| Average Treating Pressure (psi) | 8,814 |
| Maximum Treating Rate (bbl/min) | 86 |
| Maximum Treating Pressure (psi) | 9,444 |
| Displacement (psi) | 8,985 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,409 |
| Final FG (psi/ft) | 1.11 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,031 |
| Acid 7.5% HCL (gal) | 3,000 |
| Wireline Pump Down (bbls) | 620 |
| Pad (bbls) | 432 |
| Treatment (bbls) | 7,225 |
| Displacement (bbls) | 445 |
| (Acid Included)Total Fluid (bbls) | 8,102 |
| Dirty Job Total (bbls) | 8,560 |
| 100 Mesh | 299,780 |
| 40/70 | 100,220 |
| Total Proppant (lbs) | 400,000 |
| Total Proppant % | 100.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 253 |
| DRB-LT | |
| Biocide | 85 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|-----------|
| Invoice #: | 22855 |
| Date: | 8/6/2019 |
| Well Name: | Bogess 9H |
| Stage No.: | 4 |

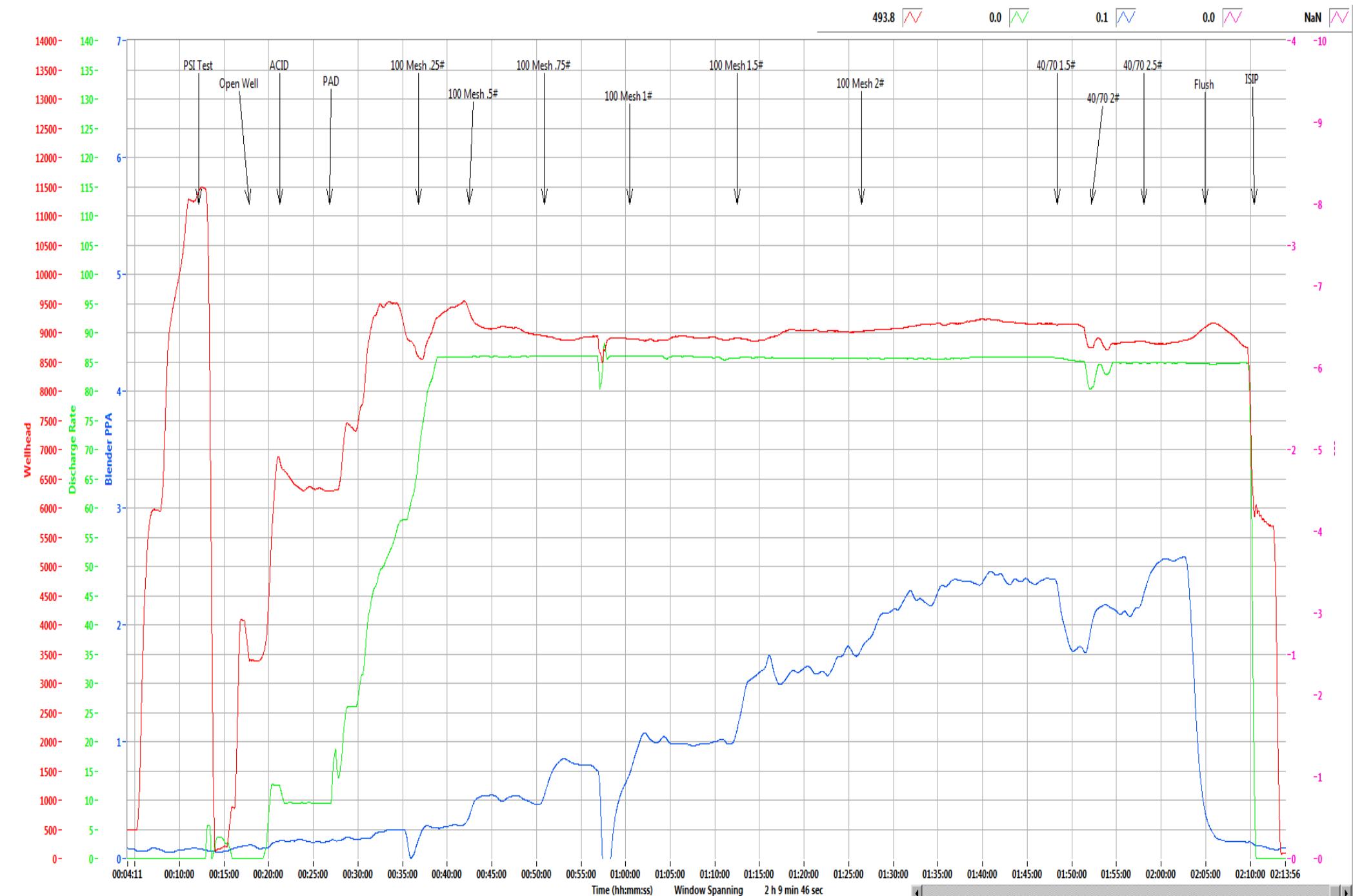
State: WV
County: Monongahela
Operator: Joe/Jamie/Brad
PO/AFE: 100347-604

(Print Name) Rob Cowger
Customer Rep:

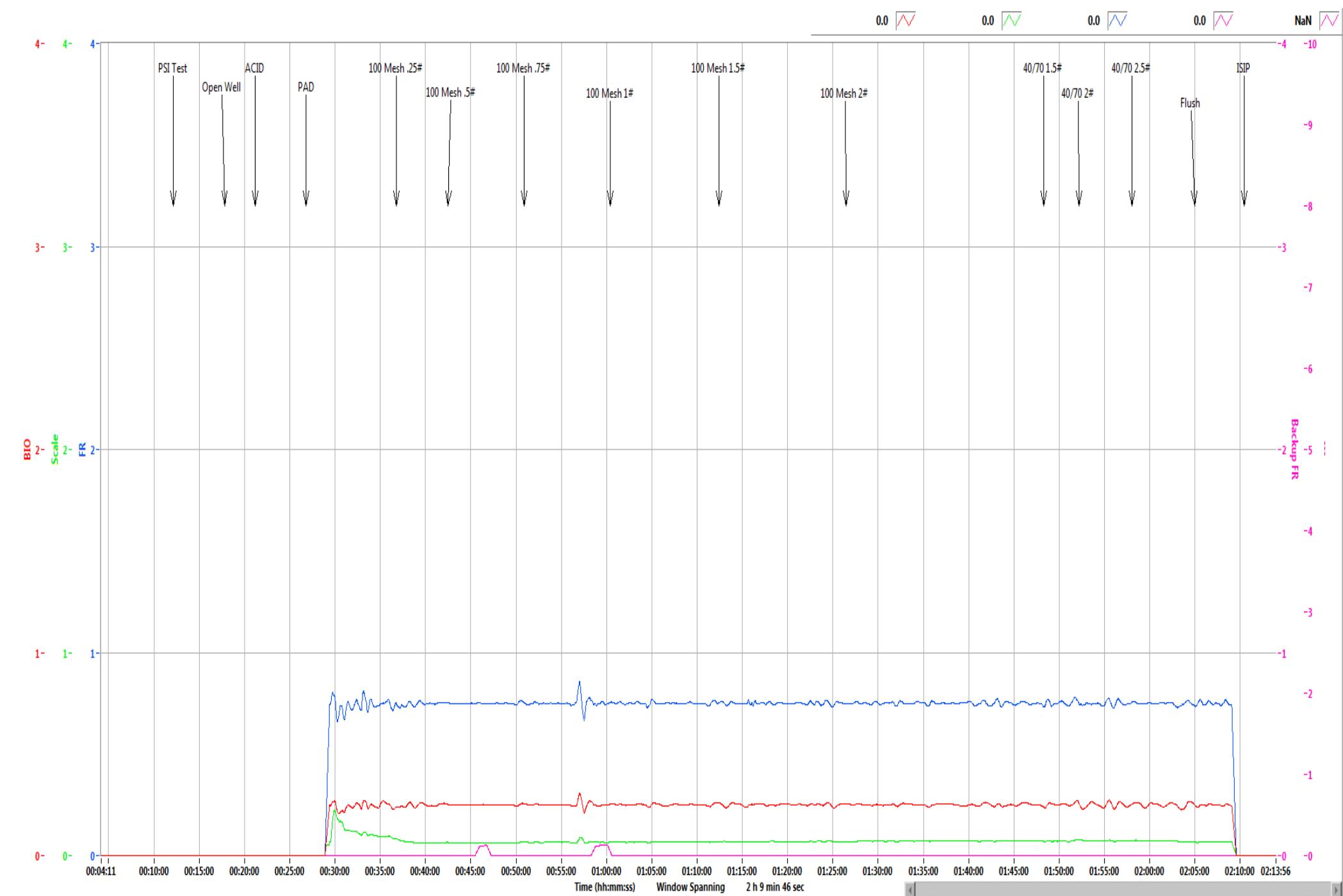


NNE
Boggess 9H
Stage 5
Producers Service Corp.

Post Stage Report
August 7, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 5 |
| Date: | 8/7/19 |
| OWP (psi): | 3,398 |
| Starting Time | 12:17 AM |
| Ending Time | 2:10 AM |
| Pump Time (hr:min) | 01:53 |
| Swap Time (hr:min) | 04:06 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 7,011 |
| Average Treating Rate (bbl/min) | 85 |
| Average Treating Pressure (psi) | 9,005 |
| Maximum Treating Rate (bbl/min) | 86 |
| Maximum Treating Pressure (psi) | 9,601 |
| Displacement (psi) | 9,139 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,560 |
| Final FG (psi/ft) | 1.13 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,020 |
| Acid 7.5% HCL (gal) | 3,000 |
| Wireline Pump Down (bbls) | 604 |
| Pad (bbls) | 422 |
| Treatment (bbls) | 7,235 |
| Displacement (bbls) | 434 |
| (Acid Included)Total Fluid (bbls) | 8,091 |
| Dirty Job Total (bbls) | 8,454 |
| 100 Mesh | 300,200 |
| 40/70 | 99,980 |
| Total Proppant (lbs) | 400,180 |
| Total Proppant % | 100.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 260 |
| DRB-LT | |
| Biocide | 84 |
| Scale | 21 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22856 |
| Date: | 8/7/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 5 |

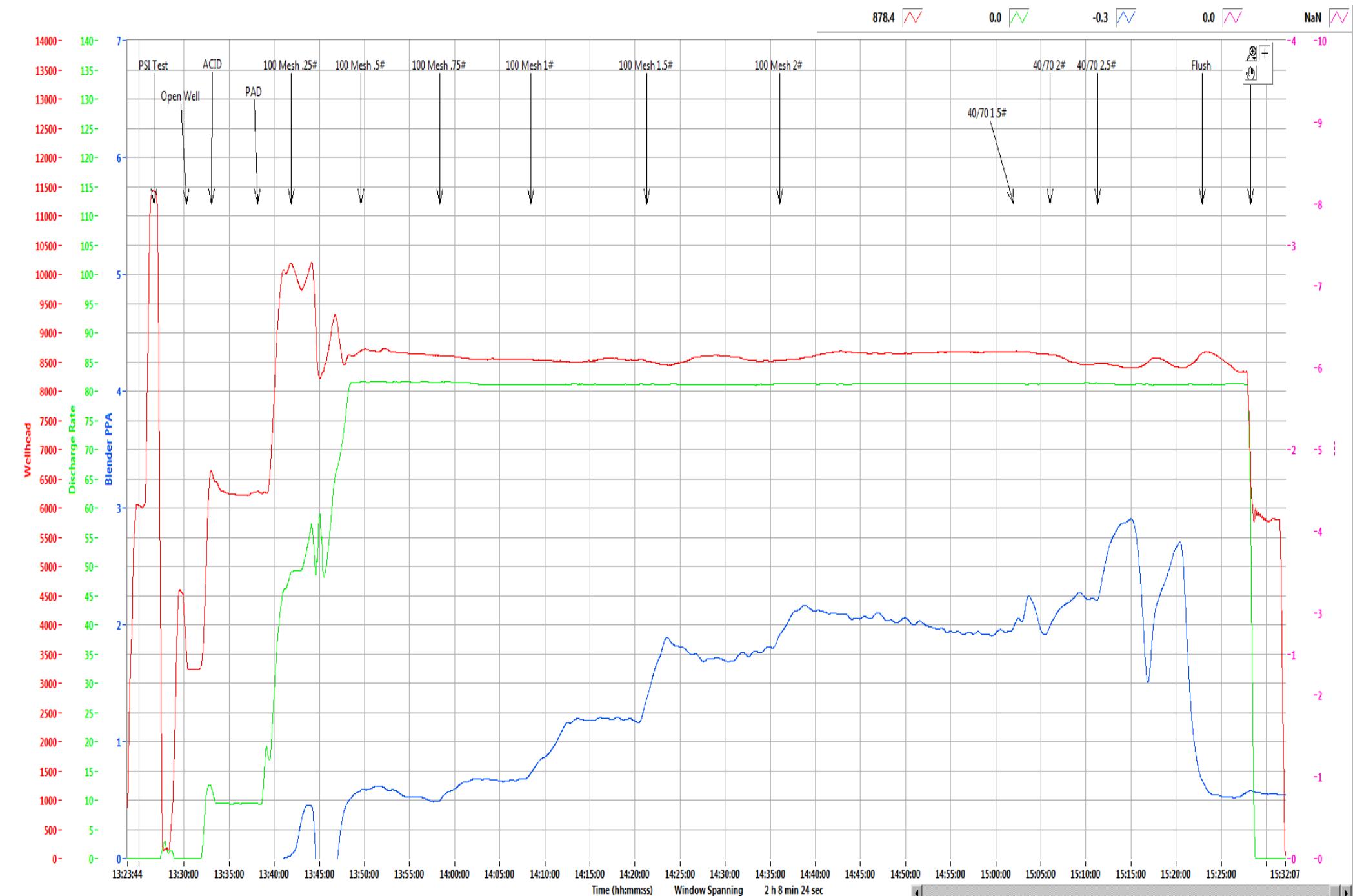
State: WV
County: Monongahela
Operator: Jeremy/Jeremy
PO/AFE: 100347-604

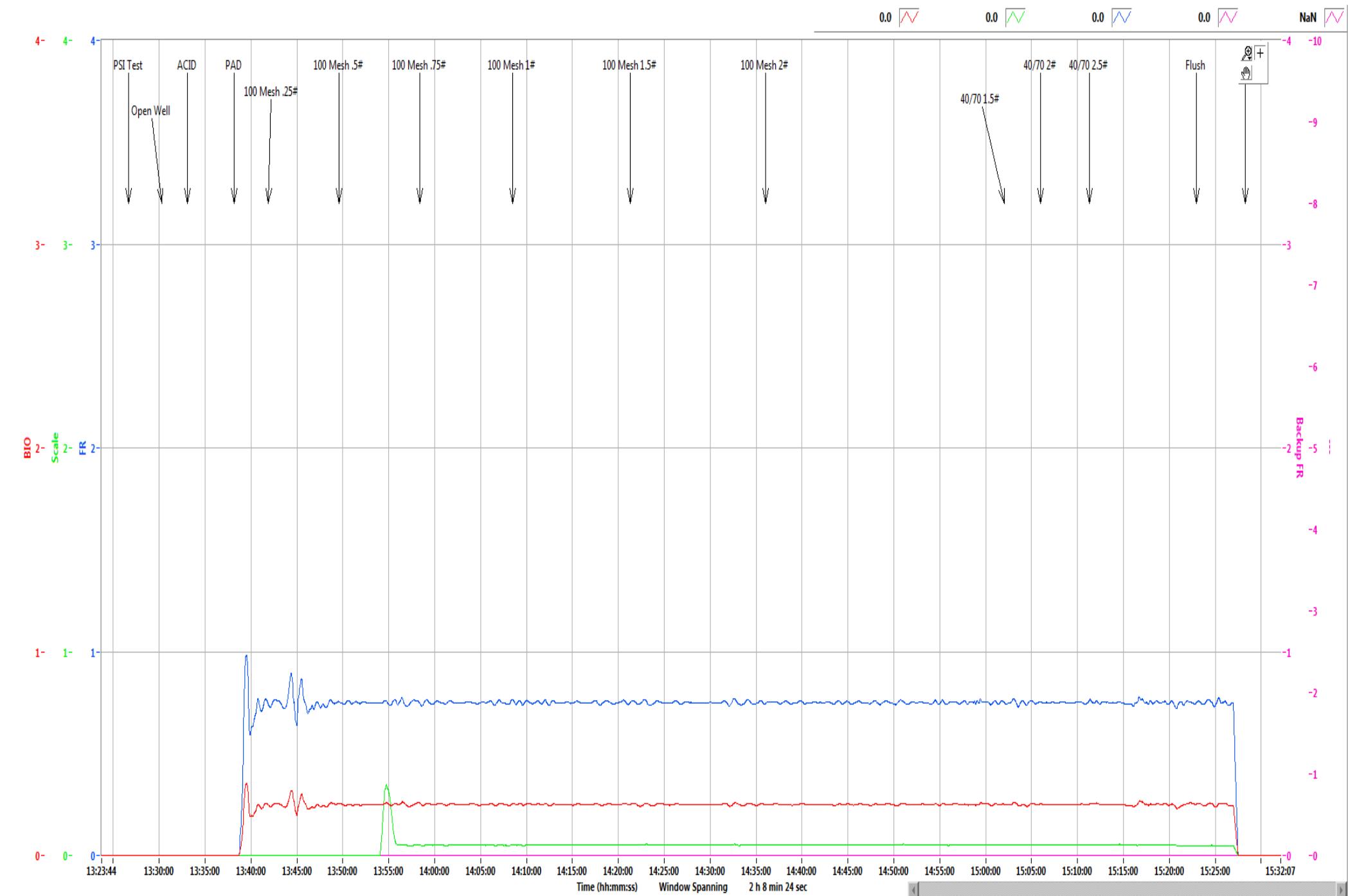
(Print Name)
Customer Re



NNE
Boggess 9H
Stage 6
Producers Service Corp.

Post Stage Report
August 7, 2019





Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 6 |
| Date: | 8/7/19 |
| OWP (psi): | 3,222 |
| Starting Time | 1:30 PM |
| Ending Time | 3:28 PM |
| Pump Time (hr:min) | 01:58 |
| Swap Time (hr:min) | 06:17 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 6,816 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 8,575 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 10,283 |
| Displacement (psi) | 8,676 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,674 |
| Final FG (psi/ft) | 1.14 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|------------------------------------|---------|
| Slickwater (bbls) | 8,268 |
| Acid 7.5% HCL (gal) | 3,000 |
| Wireline Pump Down (bbls) | |
| Pad (bbls) | 190 |
| Treatment (bbls) | 7,719 |
| Displacement (bbls) | 419 |
| (Acid Included) Total Fluid (bbls) | 8,339 |
| Dirty Job Total (bbls) | 8,668 |
| 100 Mesh | 299,400 |
| 40/70 | 100,040 |
| Total Proppant (lbs) | 399,440 |
| Total Proppant % | 99.9% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 265 |
| DRB-LT | |
| Biocide | 90 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22858 |
| Date: | 8/7/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 6 |

State: WV
County: Monongahela
Operator: Joe/Eck
PO/AE: 100347-604

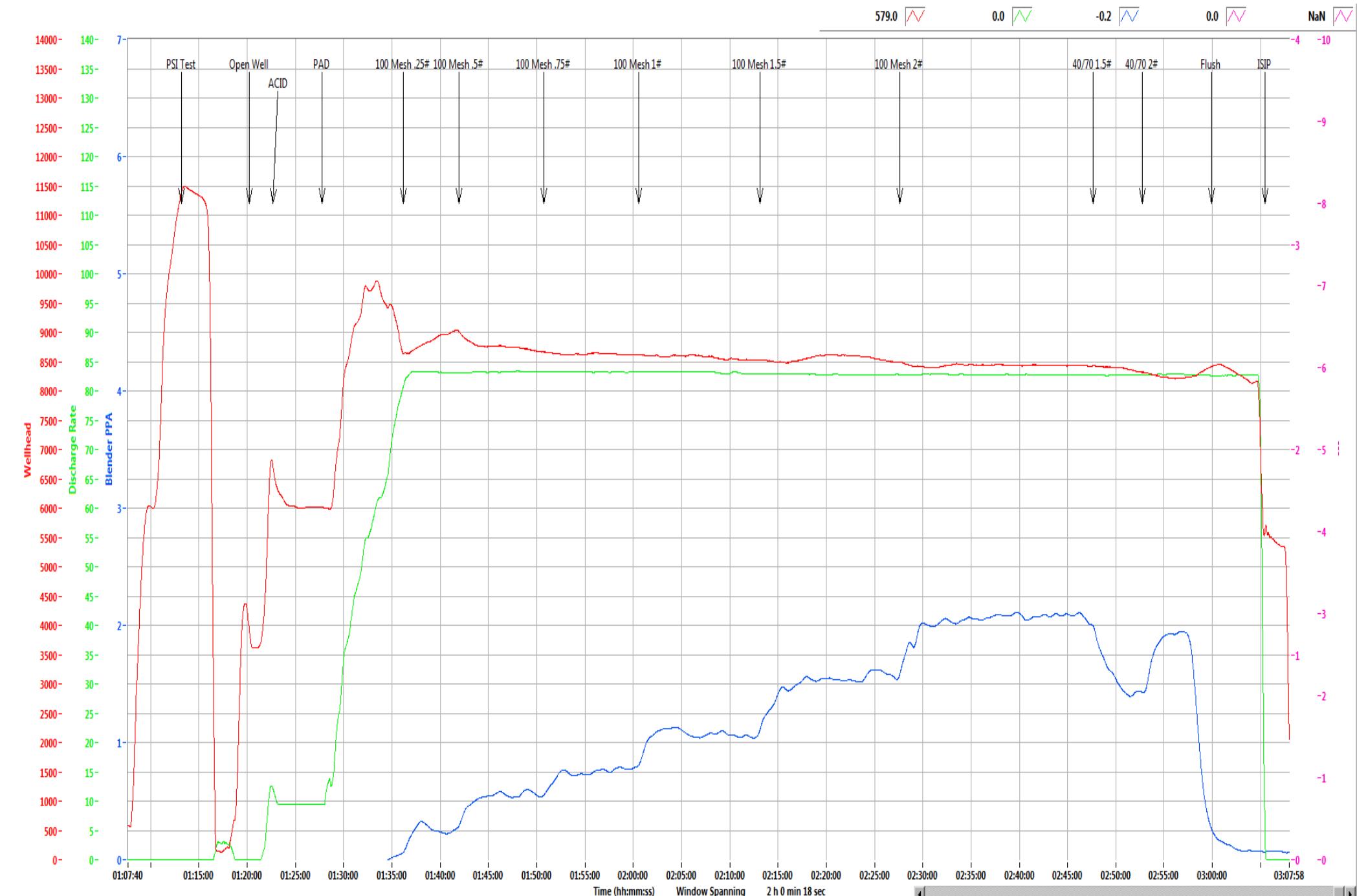
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 3000 | GAL | \$ 1.25 | \$ 3,750.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 6 | GAL | \$ 35.00 | \$ 210.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,994.00 | CWT | \$ 5.50 | \$ 16,467.00 |
| SAND 40/70 | 40/70 white | 1,000.40 | CWT | \$ 5.75 | \$ 5,752.30 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 265 | GAL | \$ 17.75 | \$ 4,703.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 90 | GAL | \$ 16.00 | \$ 1,440.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 19 | GAL | \$ 16.00 | \$ 304.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 199.72 | TON | \$ 55.00 | \$ 10,984.60 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| Total No Discount | | | | | \$ 63,411.65 |
| 25% Discount Applied | | | | | \$ 15,852.91 |
| Net Stage Total | | | | | \$ 47,558.74 |

(Print Name)
Customer Re

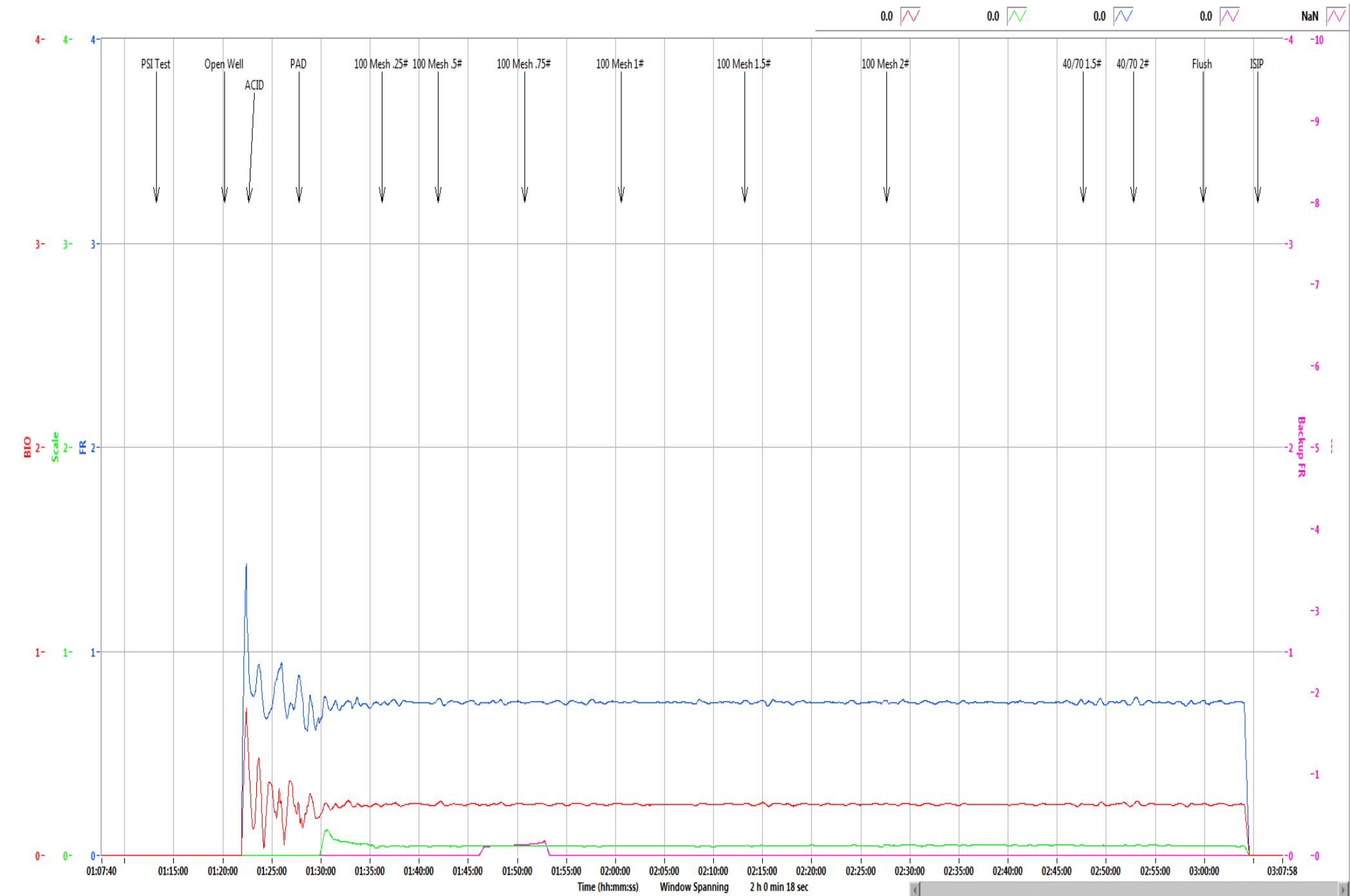


NNE
Boggess 9H
Stage 7
Producers Service Corp.

Post Stage Report
August 8, 2019



Refresh Graph



Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 7 |
| Date: | 8/8/19 |
| OWP (psi): | 3,626 |
| Starting Time | 1:13 AM |
| Ending Time | 3:05 AM |
| Pump Time (hr:min) | 01:52 |
| Swap Time (hr:min) | 02:19 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 7,070 |
| Average Treating Rate (bbl/min) | 83 |
| Average Treating Pressure (psi) | 8,542 |
| Maximum Treating Rate (bbl/min) | 84 |
| Maximum Treating Pressure (psi) | 9,968 |
| Displacement (psi) | 8,427 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 5,848 |
| Final FG (psi/ft) | 1.16 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,464 |
| Acid 7.5% HCL (gal) | 3,000 |
| Wireline Pump Down (bbls) | 518 |
| Pad (bbls) | 421 |
| Treatment (bbls) | 6,687 |
| Displacement (bbls) | 422 |
| (Acid Included)Total Fluid (bbls) | 7,535 |
| Dirty Job Total (bbls) | 7,836 |
| 100 Mesh | 304,480 |
| 40/70 | 68,020 |
| Total Proppant (lbs) | 372,500 |
| Total Proppant % | 93.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 257 |
| DRB-LT | |
| Biocide | 79 |
| Scale | 16 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22860 |
| Date: | 8/8/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 7 |

State: WV
County: Monongahela
Operator: Jeremy T/Jeremy M
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 3000 | GAL | \$ 1.25 | \$ 3,750.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 6 | GAL | \$ 35.00 | \$ 210.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,044.80 | CWT | \$ 5.50 | \$ 16,746.40 |
| SAND 40/70 | 40/70 white | 680.20 | CWT | \$ 5.75 | \$ 3,911.15 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 257 | GAL | \$ 17.75 | \$ 4,561.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 79 | GAL | \$ 16.00 | \$ 1,264.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 16 | GAL | \$ 16.00 | \$ 256.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 186.25 | TON | \$ 55.00 | \$ 10,243.75 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 60,743.05 | |
| | | | 25% Discount Applied | \$ 15,185.76 | |
| | | | Net Stage Total | \$ 45,557.29 | |

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 8
Producers Service Corp.

Post Stage Report
August 9, 2019

994.9



0.0



-0.1



0.0



NaN



-4

-10

-9

-8

-3

-7

-6

-2

-5

-4

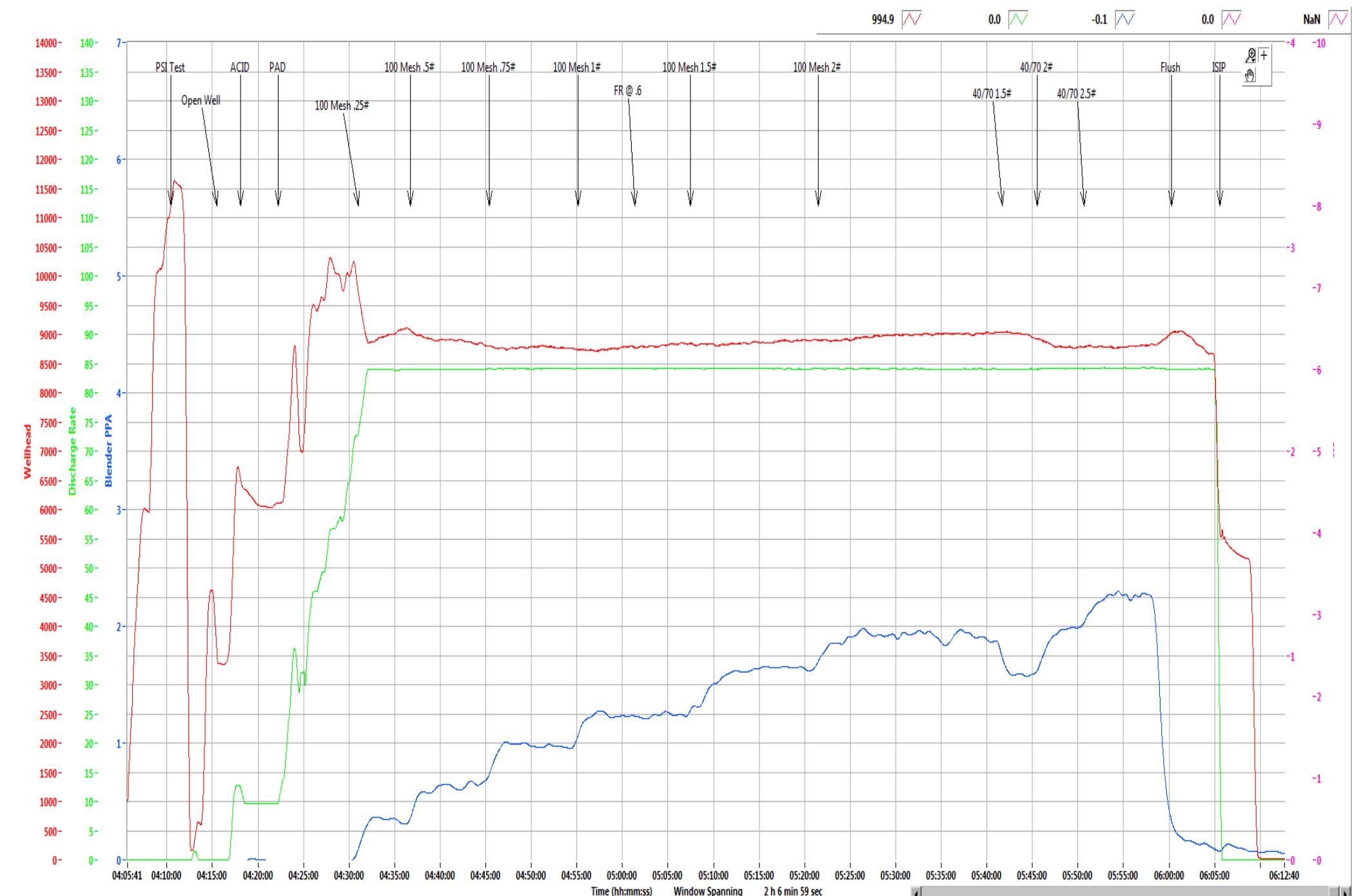
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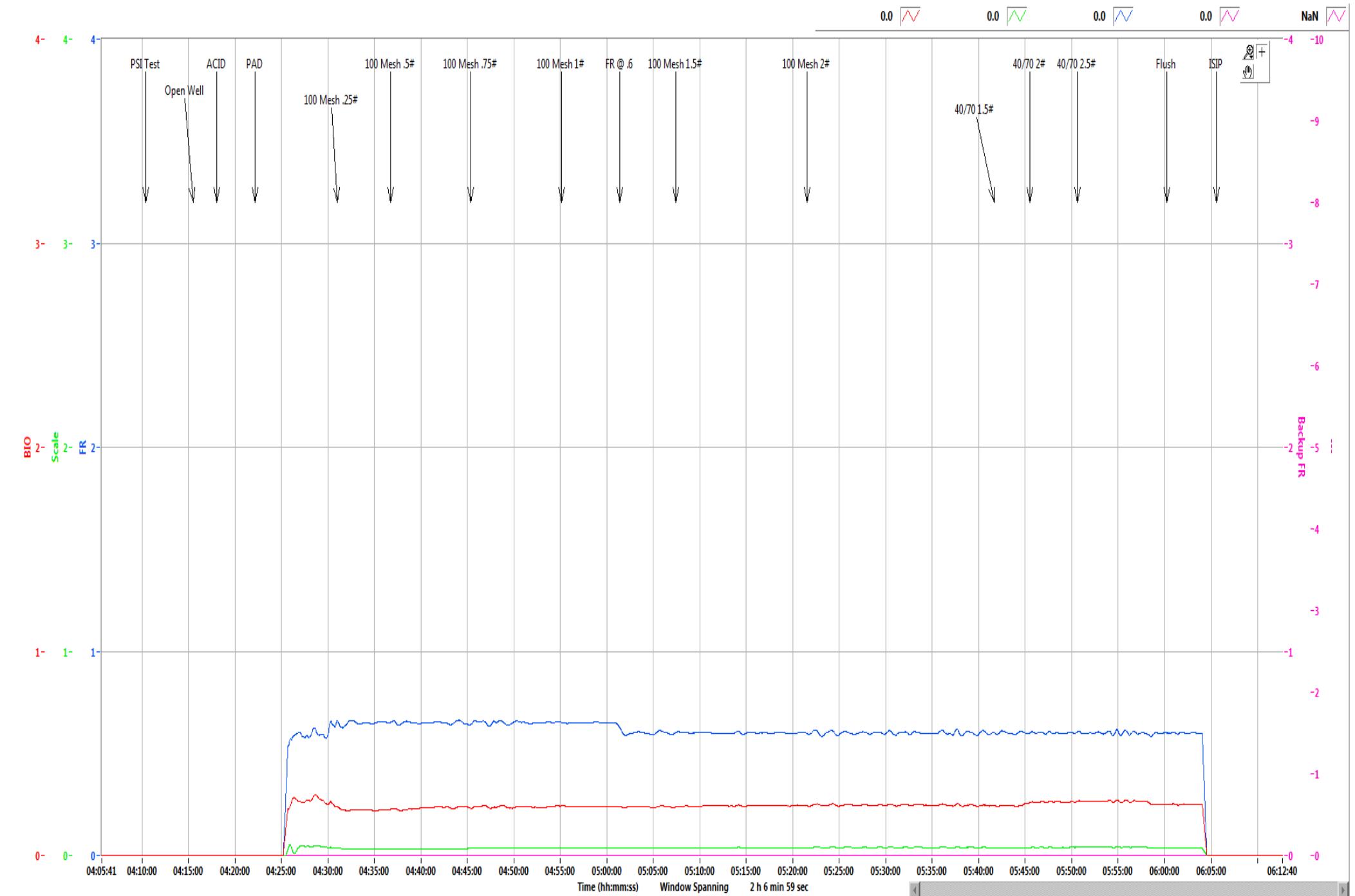
-2

-1

-0



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|---------------------------|----------------|
| Stage | 8 |
| Date: | 8/9/19 |
| OWP (psi): | 3,358 |
| Starting Time | 4:15 AM |
| Ending Time | 6:05 AM |
| Pump Time (hr:min) | 01:50 |
| Swap Time (hr:min) | 02:11 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|---|--------------|
| Breakdown Pressure (psi) | 6,865 |
| Average Treating Rate (bbl/min) | 84 |
| Average Treating Pressure (psi) | 8,895 |
| Maximum Treating Rate (bbl/min) | 85 |
| Maximum Treating Pressure (psi) | 85 |
| Displacement (psi) | 9,017 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,144 |
| Final FG (psi/ft) | 1.07 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|---|----------------|
| Slickwater (bbls) | 8,035 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 533 |
| Pad (bbls) | 416 |
| Treatment (bbls) | 7,243 |
| Displacement (bbls) | 418 |
| (Acid Included) Total Fluid (bbls) | 8,083 |
| Dirty Job Total (bbls) | 8,392 |
| 100 Mesh | 299,580 |
| 40/70 | 100,140 |
| Total Proppant (lbs) | 399,720 |
| Total Proppant % | 99.9% |

CHEMICALS

| | |
|----------------|------------|
| FR 9800 | 210 |
| DRB-LT | |
| Biocide | 95 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22862 |
| Date: | 8/9/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 8 |

State: WV
County: Monongahela
Operator: Eck/Joe/Austin
PO/AFE: 100347-604

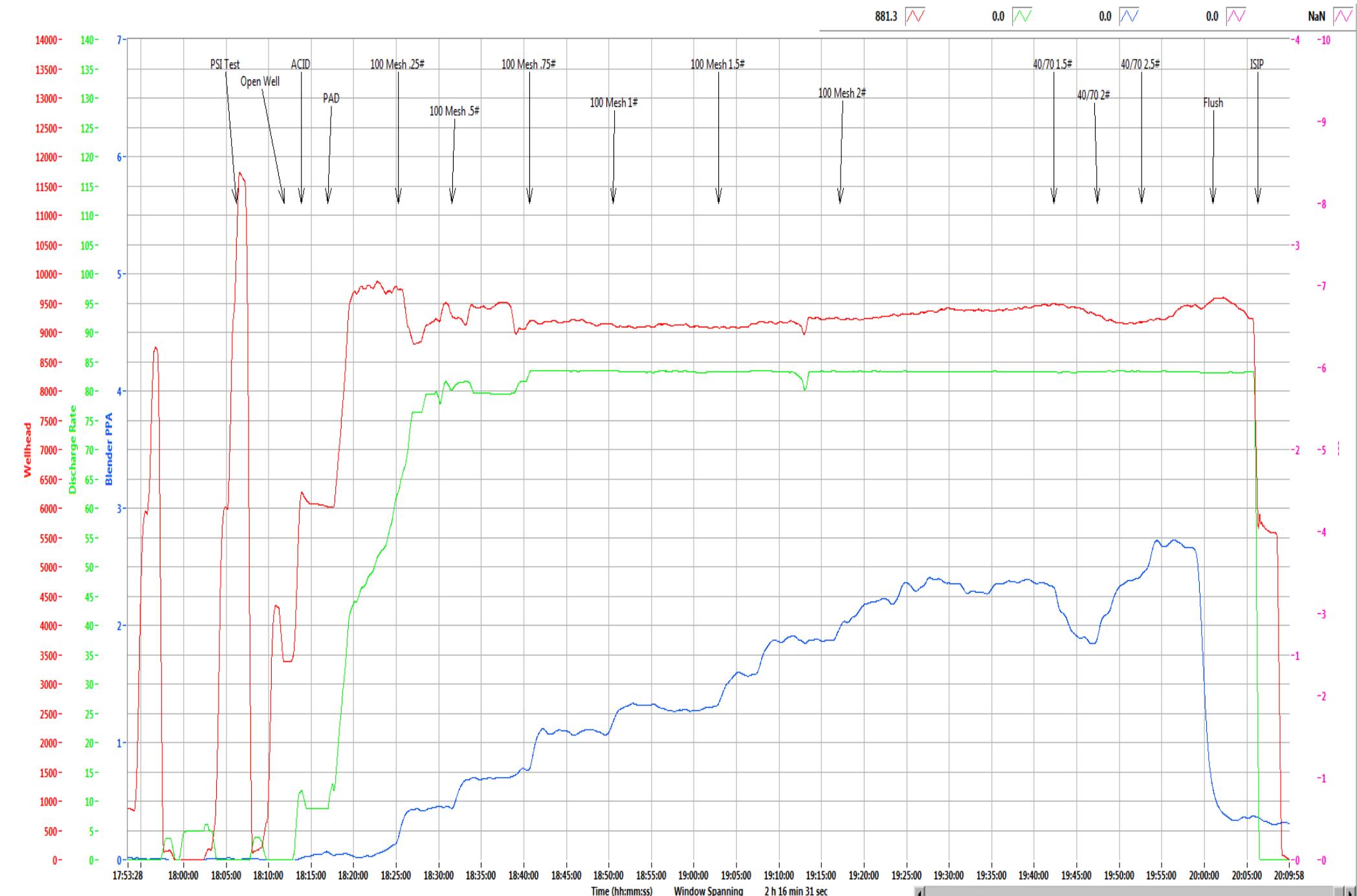
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,995.80 | CWT | \$ 5.50 | \$ 16,476.90 |
| SAND 40/70 | 40/70 white | 1,001.40 | CWT | \$ 5.75 | \$ 5,758.05 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 210 | GAL | \$ 17.75 | \$ 3,727.50 |
| BIOC11219A | Biocide @ 0.25 GPT | 95 | GAL | \$ 16.00 | \$ 1,520.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 19 | GAL | \$ 16.00 | \$ 304.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 199.86 | TON | \$ 55.00 | \$ 10,992.30 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 61,218.75 | |
| | | | 25% Discount Applied | \$ 15,304.69 | |
| | | | Net Stage Total | \$ 45,914.06 | |

(Print Name) _____
Customer Rep: _____

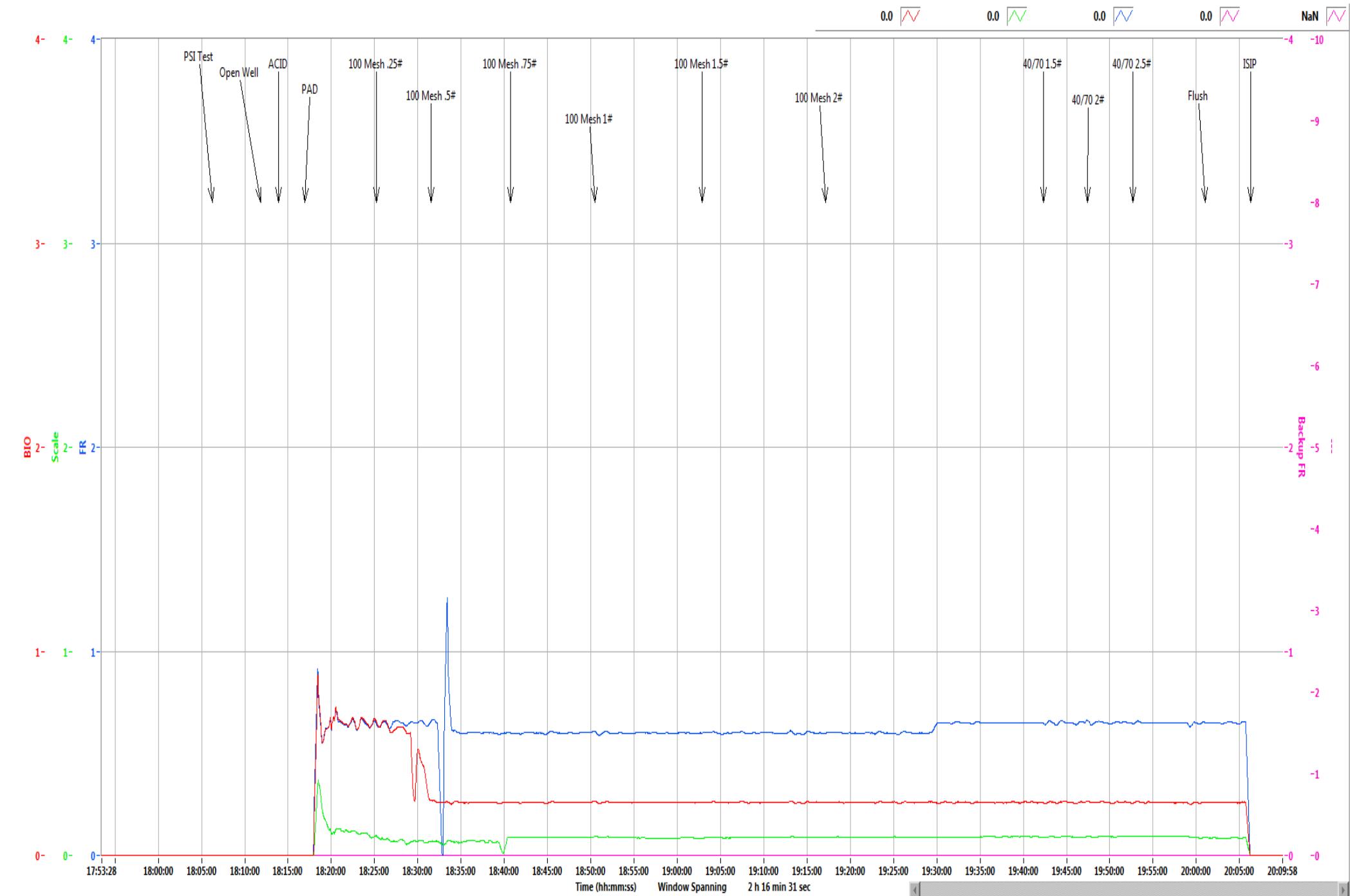


NNE
Boggess 9H
Stage 9
Producers Service Corp.

Post Stage Report
August 9, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 9 |
| Date: | 8/9/19 |
| OWP (psi): | 3,373 |
| Starting Time | 6:11 PM |
| Ending Time | 8:06 PM |
| Pump Time (hr:min) | 01:55 |
| Swap Time (hr:min) | 02:34 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,343 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 9,281 |
| Maximum Treating Rate (bbl/min) | 84 |
| Maximum Treating Pressure (psi) | 9,906 |
| Displacement (psi) | 9,594 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,011 |
| Final FG (psi/ft) | 1.18 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,356 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 607 |
| Pad (bbls) | 362 |
| Treatment (bbls) | 7,611 |
| Displacement (bbls) | 414 |
| (Acid Included)Total Fluid (bbls) | 8,392 |
| Dirty Job Total (bbls) | 8,724 |
| 100 Mesh | 301,740 |
| 40/70 | 100,400 |
| Total Proppant (lbs) | 402,140 |
| Total Proppant % | 100.5% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 220 |
| DRB-LT | |
| Biocide | 88 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22864 |
| Date: | 8/9/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 9 |

State: WV
County: Monongahela
Operator: Stetson/Jeremy
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|----------------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,017.40 | CWT | \$ 5.50 | \$ 16,595.70 |
| SAND 40/70 | 40/70 white | 1,004.00 | CWT | \$ 5.75 | \$ 5,773.00 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 220 | GAL | \$ 17.75 | \$ 3,905.00 |
| BIOC11219A | Biocide @ 0.25 GPT | 88 | GAL | \$ 16.00 | \$ 1,408.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 19 | GAL | \$ 16.00 | \$ 304.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 201.07 | TON | \$ 55.00 | \$ 11,058.85 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | | Total No Discount | \$ 60,824.55 |
| | | | | 25% Discount Applied | \$ 15,206.14 |
| | | | | Net Stage Total | \$ 45,618.41 |

(Print Name)

(Print Name)

Rob Longo

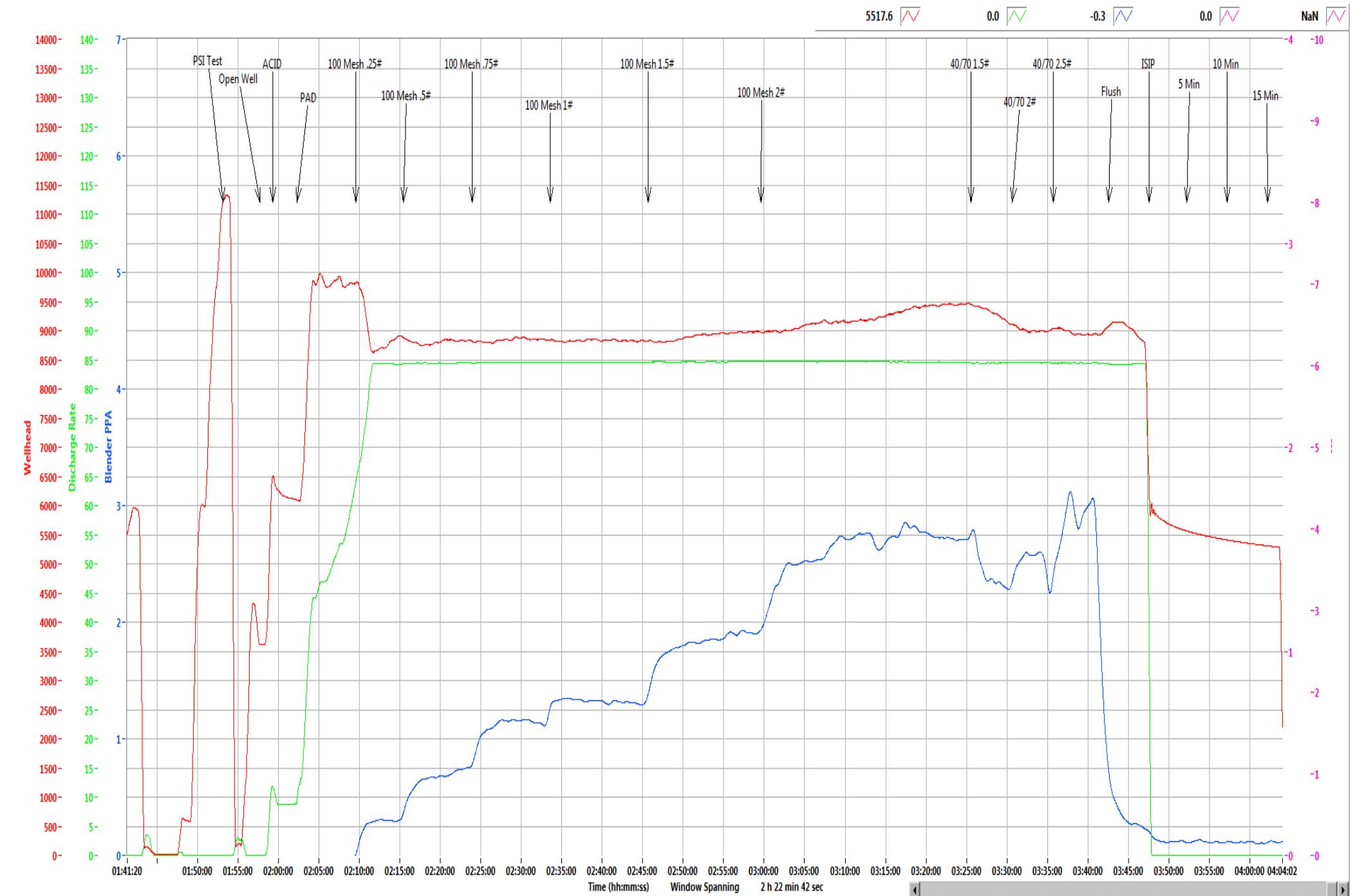
Customer Signature:

R. Lewis

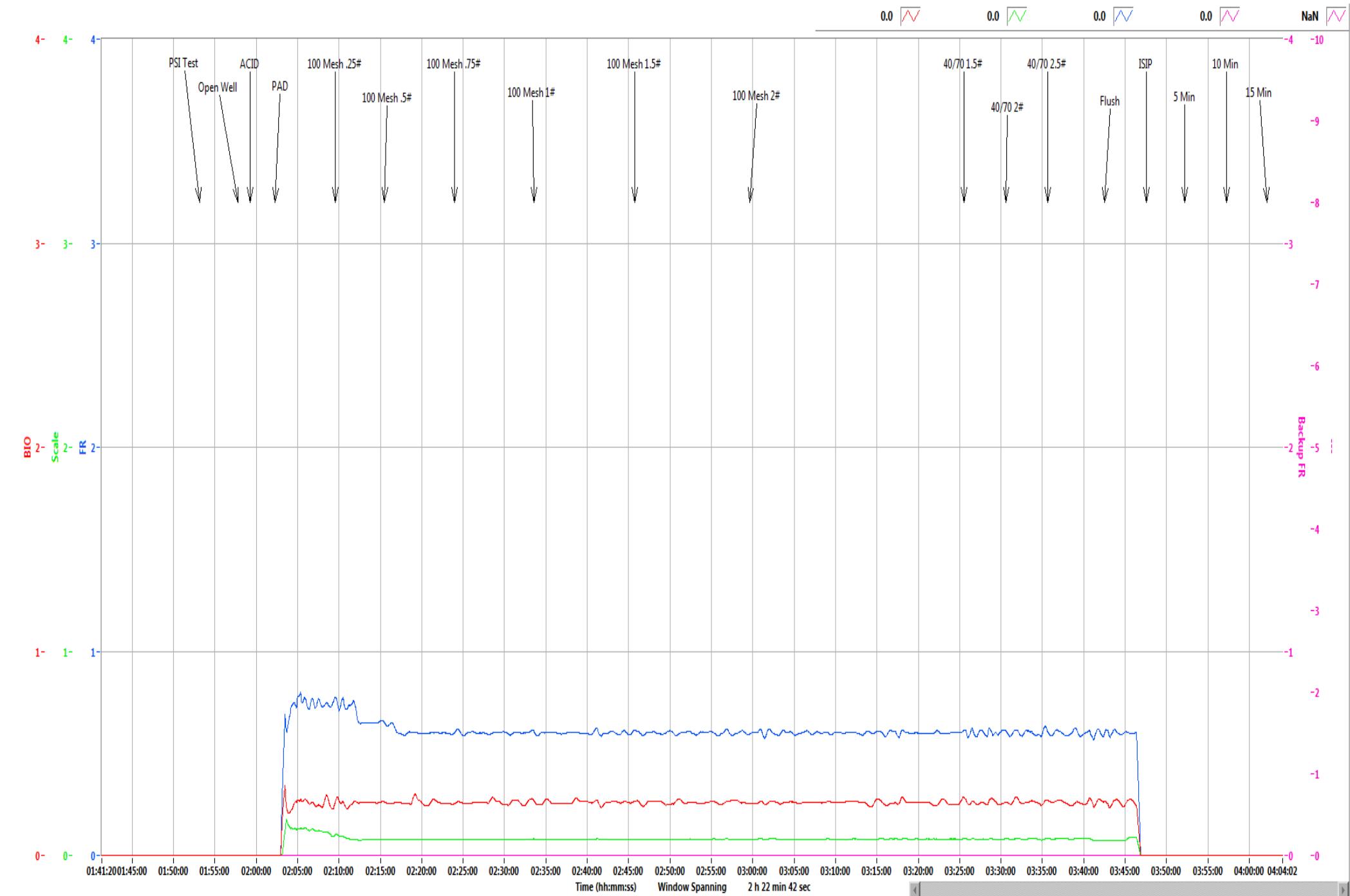


NNE
Boggess 9H
Stage 10
Producers Service Corp.

Post Stage Report
August 10, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 10 |
| Date: | 8/10/19 |
| OWP (psi): | 3,613 |
| Starting Time | 1:57 AM |
| Ending Time | 3:47 AM |
| Pump Time (hr:min) | 01:50 |
| Swap Time (hr:min) | 01:41 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 6,722 |
| Average Treating Rate (bbl/min) | 84 |
| Average Treating Pressure (psi) | 9,019 |
| Maximum Treating Rate (bbl/min) | 85 |
| Maximum Treating Pressure (psi) | 10,022 |
| Displacement (psi) | 9,087 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,090 |
| Final FG (psi/ft) | 1.19 |
| 5 Minute Leakoff Pressure (psi) | 5,553 |
| 5 Minute Leakoff Rate (psi/min) | 107 |
| 10 Minute Leakoff Pressure (psi) | 5,403 |
| 10 Minute Leakoff Rate (psi/min) | 69 |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,307 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 513 |
| Pad (bbls) | 350 |
| Treatment (bbls) | 7,582 |
| Displacement (bbls) | 411 |
| (Acid Included)Total Fluid (bbls) | 8,343 |
| Dirty Job Total (bbls) | 8,623 |
| 100 Mesh | 296,780 |
| 40/70 | 103,200 |
| Total Proppant (lbs) | 399,980 |
| Total Proppant % | 100.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 213 |
| DRB-LT | |
| Biocide | 89 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22866 |
| Date: | 8/10/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 10 |

State: WV
County: Monongahela
Operator: Stetson/Jeremy
PO/AFE: 100347-604

(Print Name)

(Print Name)
Customer Re

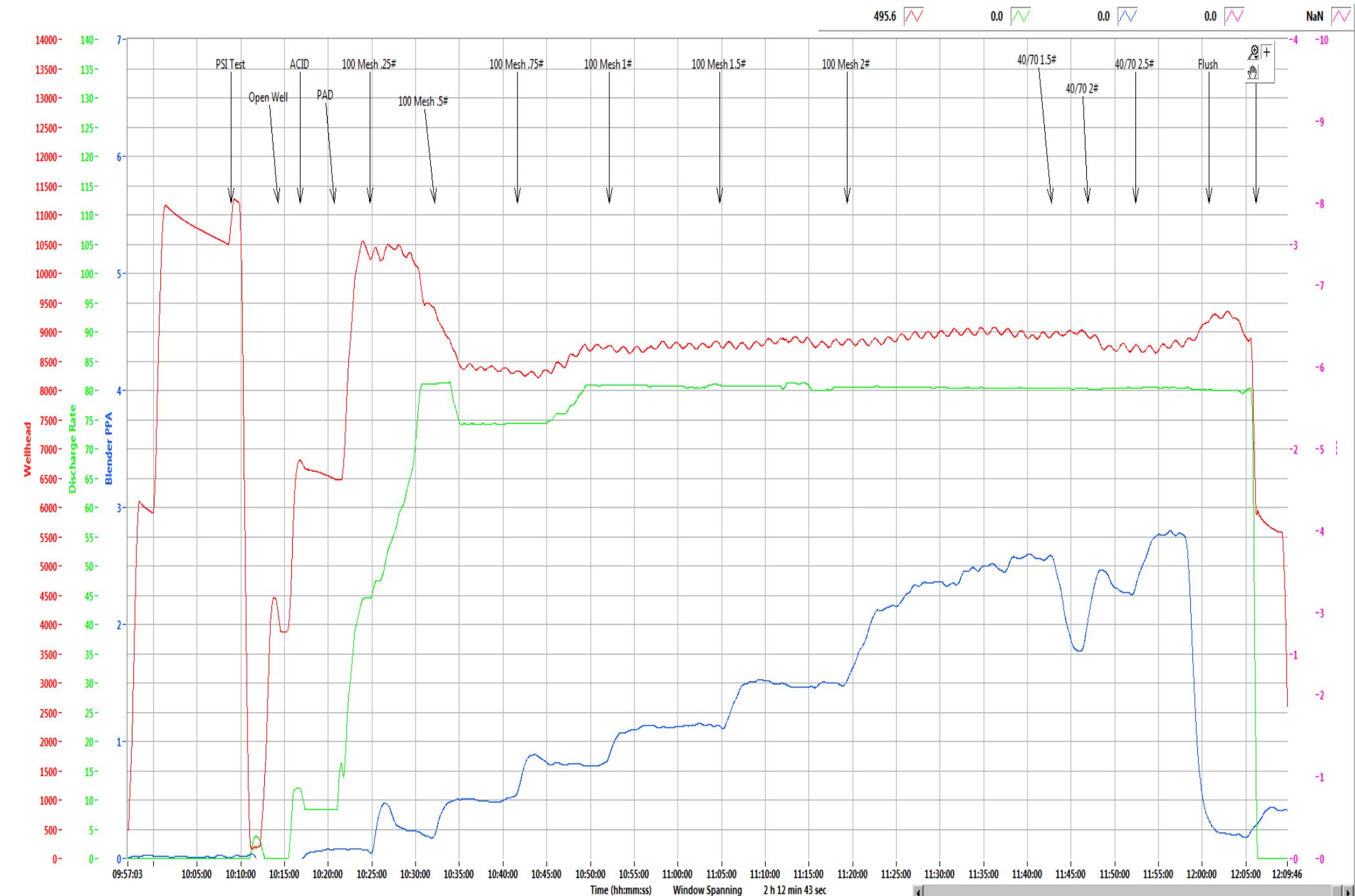
Customer Signature:

RH Cowger

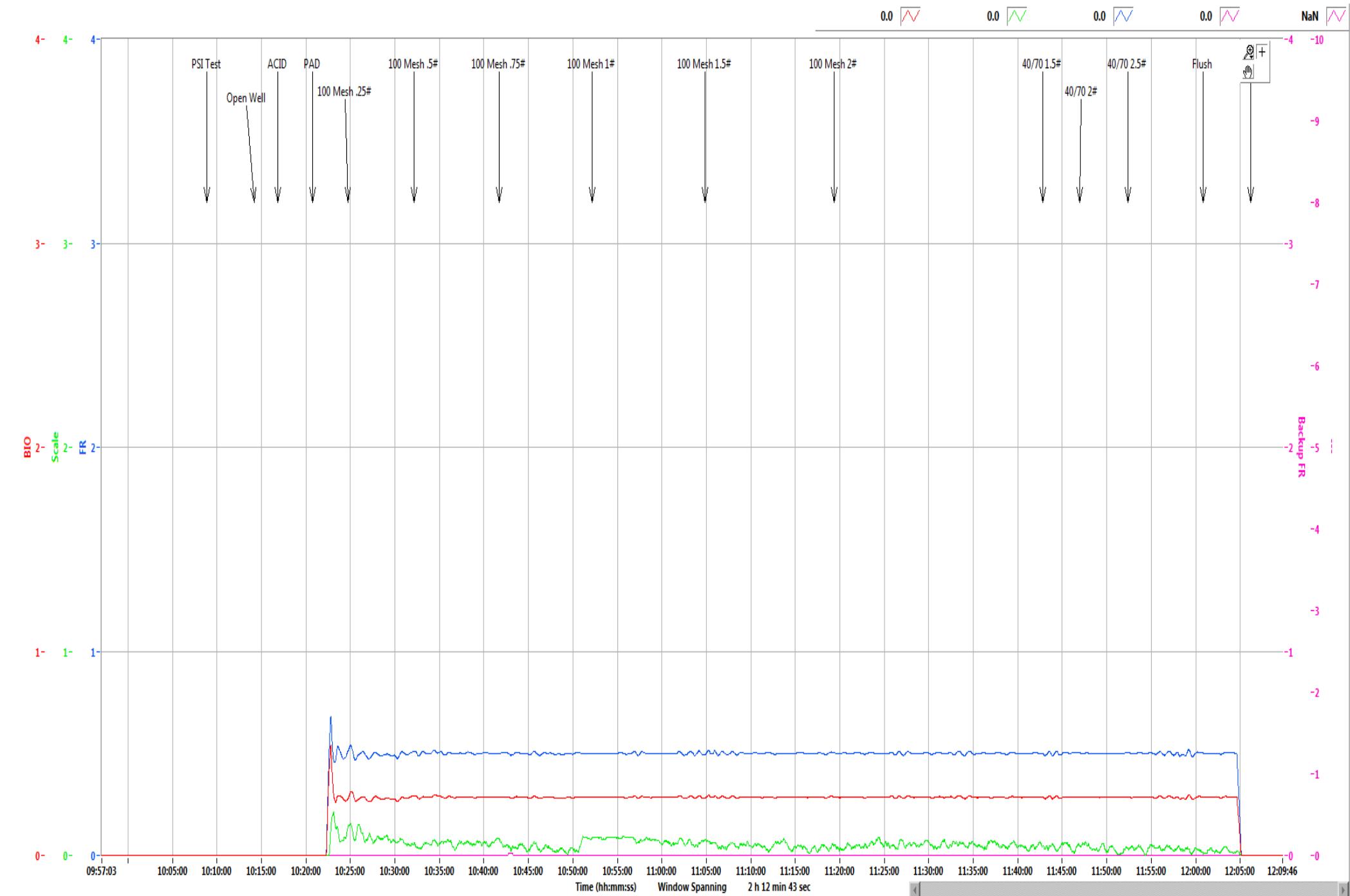


NNE
Boggess 9H
Stage 11
Producers Service Corp.

Post Stage Report
August 10, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 11 |
| Date: | 8/10/19 |
| OWP (psi): | 3,873 |
| Starting Time | 10:14 AM |
| Ending Time | 12:06 PM |
| Pump Time (hr:min) | 01:52 |
| Swap Time (hr:min) | 02:48 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 6,834 |
| Average Treating Rate (bbl/min) | 80.0 |
| Average Treating Pressure (psi) | 8,780 |
| Maximum Treating Rate (bbl/min) | 82.0 |
| Maximum Treating Pressure (psi) | 10,591 |
| Displacement (psi) | 9,276 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,689 |
| Final FG (psi/ft) | 1.14 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,803 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 501 |
| Pad (bbls) | 139 |
| Treatment (bbls) | 7,306 |
| Displacement (bbls) | 402 |
| (Acid Included)Total Fluid (bbls) | 7,851 |
| Dirty Job Total (bbls) | 8,123 |
| 100 Mesh | 300,700 |
| 40/70 | 100,060 |
| Total Proppant (lbs) | 400,760 |
| Total Proppant % | 100.2% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 163 |
| DRB-LT | |
| Biocide | 82 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22868 |
| Date: | 8/10/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 11 |

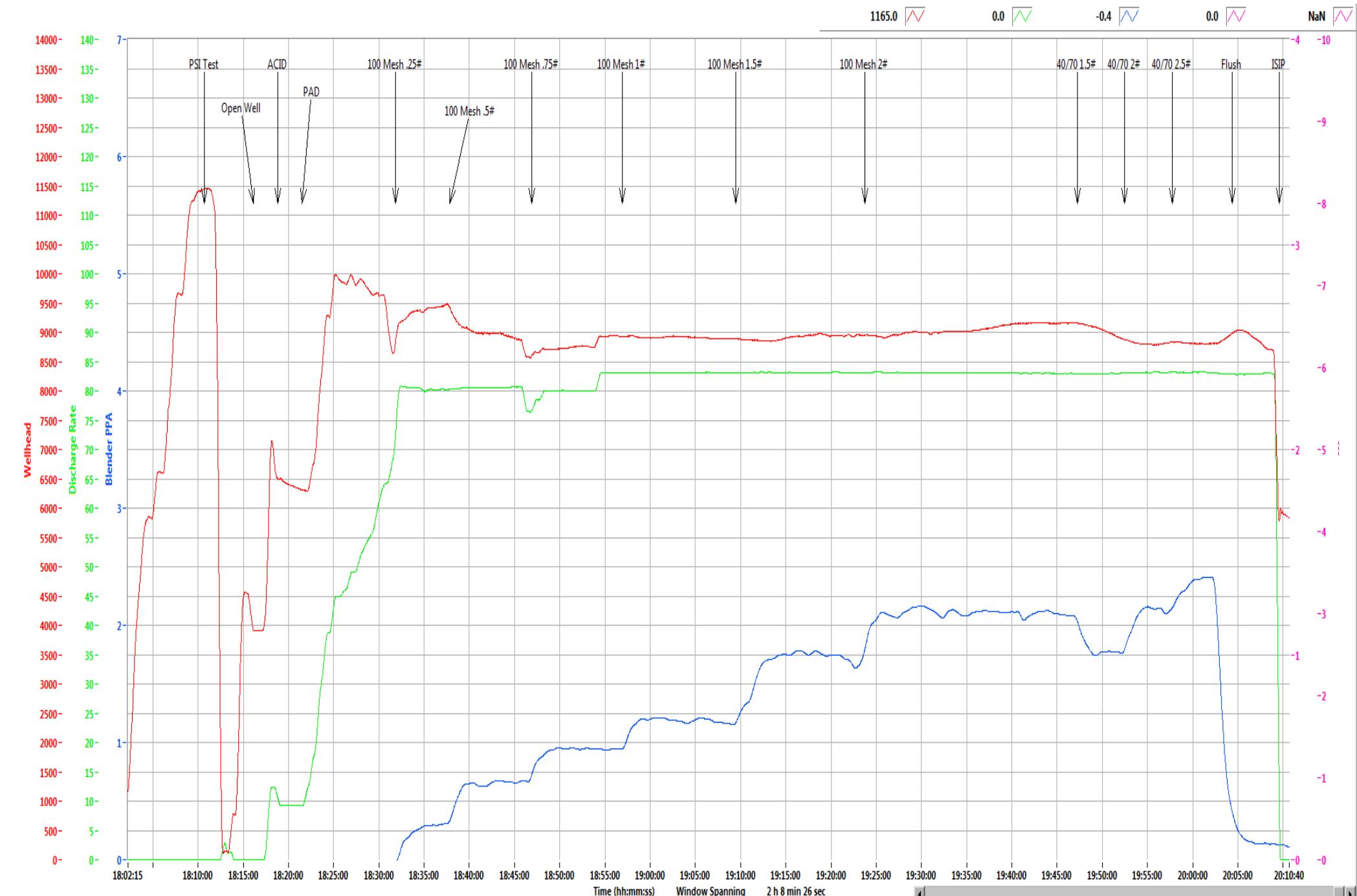
State: WV
County: Monongahela
Operator: Jamie/Joe
PO/AFE: 100347-604

(Print Name)
Customer Re

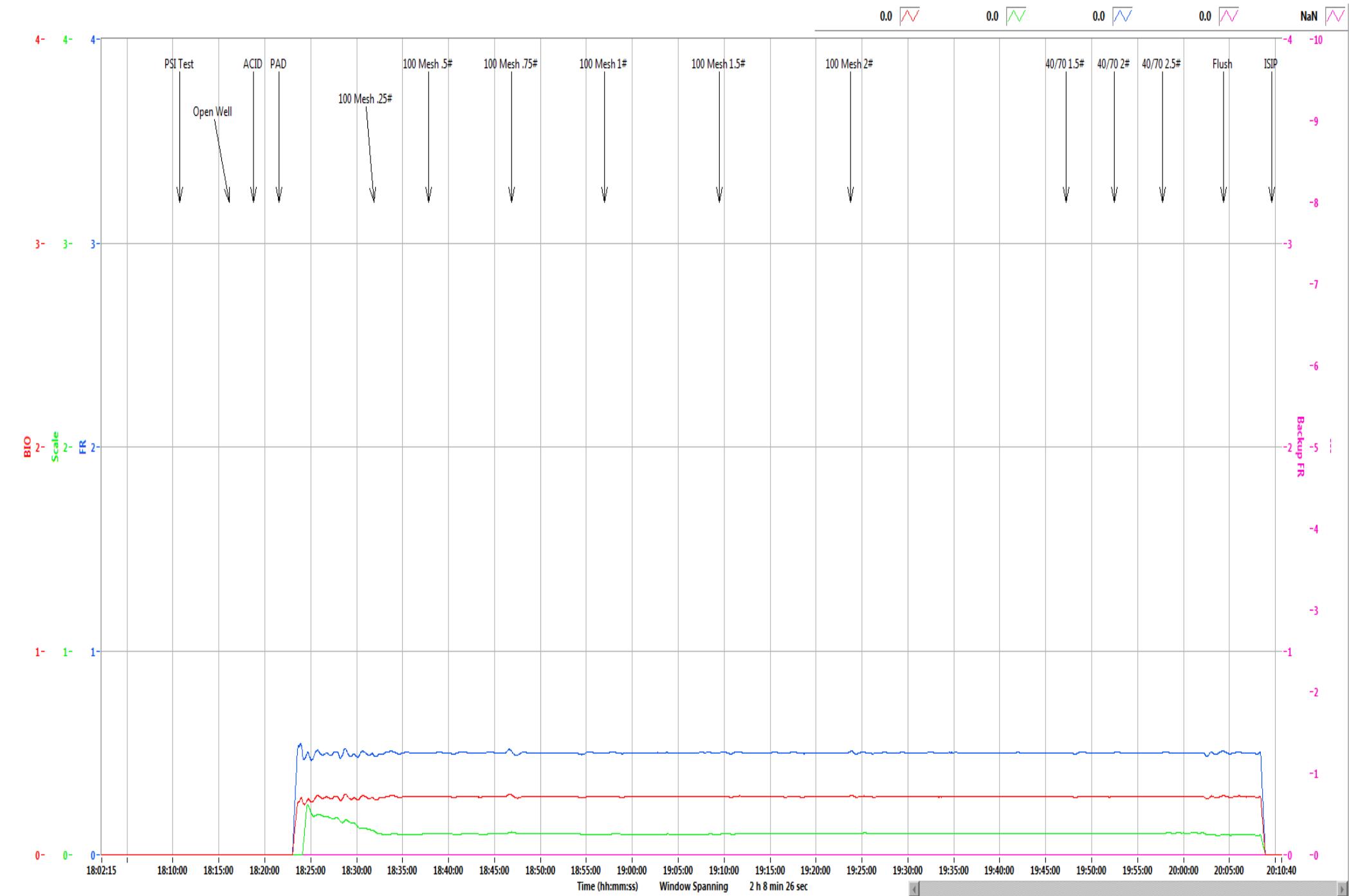


NNE
Boggess 9H
Stage 12
Producers Service Corp.

Post Stage Report
August 10, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|---------------------------|----------------|
| Stage | 12 |
| Date: | 8/10/19 |
| OWP (psi): | 3,910 |
| Starting Time | 6:16 PM |
| Ending Time | 8:09 PM |
| Pump Time (hr:min) | 01:53 |
| Swap Time (hr:min) | 01:58 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|---|---------------|
| Breakdown Pressure (psi) | 7,455 |
| Average Treating Rate (bbl/min) | 82 |
| Average Treating Pressure (psi) | 8,969 |
| Maximum Treating Rate (bbl/min) | 83 |
| Maximum Treating Pressure (psi) | 10,031 |
| Displacement (psi) | 9,043 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,348 |
| Final FG (psi/ft) | 1.22 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|---|----------------|
| Slickwater (bbls) | 8,215 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 601 |
| Pad (bbls) | 486 |
| Treatment (bbls) | 7,356 |
| Displacement (bbls) | 402 |
| (Acid Included) Total Fluid (bbls) | 8,251 |
| Dirty Job Total (bbls) | 8,543 |
| 100 Mesh | 307,500 |
| 40/70 | 96,040 |
| Total Proppant (lbs) | 403,540 |
| Total Proppant % | 100.9% |

CHEMICALS

| | |
|----------------|------------|
| FR 9800 | 189 |
| DRB-LT | |
| Biocide | 87 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22870 |
| Date: | 8/10/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 12 |

State: WV
County: Monongahela
Operator: Jeremy/Stetson
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| AN1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,075.00 | CWT | \$ 5.50 | \$ 16,912.50 |
| SAND 40/70 | 40/70 white | 960.40 | CWT | \$ 5.75 | \$ 5,522.30 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 189 | GAL | \$ 17.75 | \$ 3,354.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 87 | GAL | \$ 16.00 | \$ 1,392.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 201.77 | TON | \$ 55.00 | \$ 11,097.35 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 60,346.90 | |
| | | | 25% Discount Applied | \$ 15,086.73 | |
| | | | Net Stage Total | \$ 45,260.18 | |

(Print Name)

(Print Name)

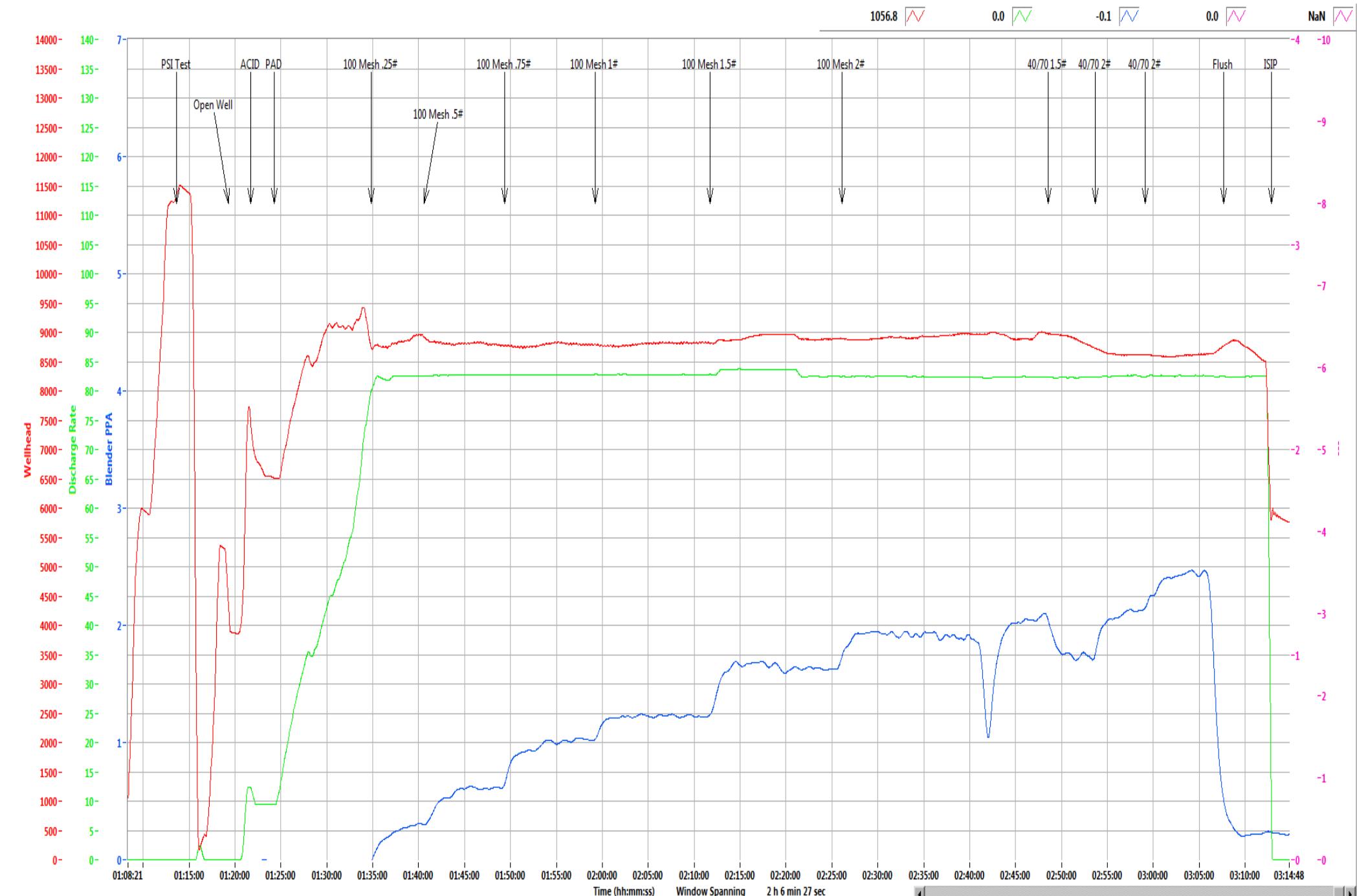
Customer Signature:

Rob Ginger

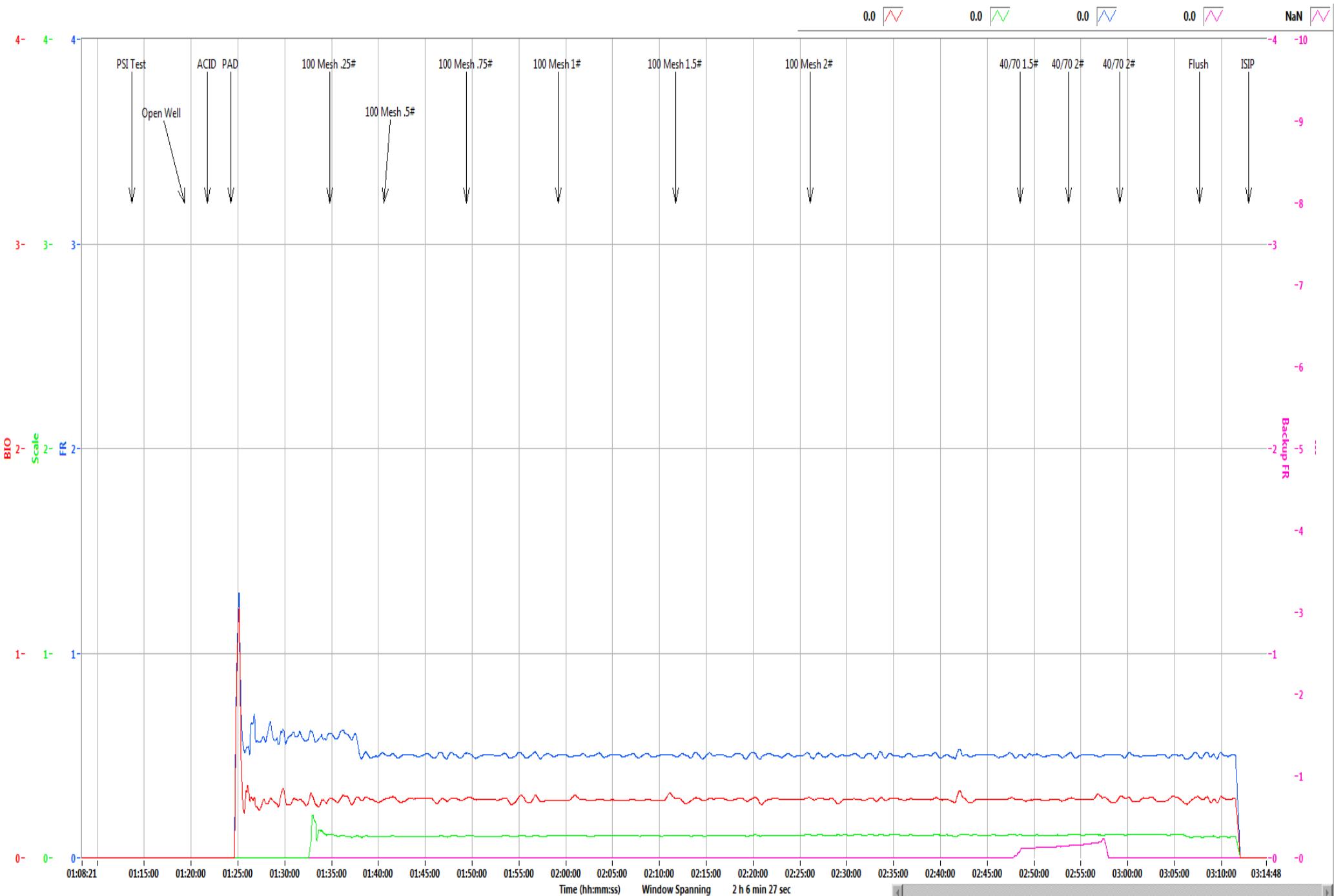


NNE
Boggess 9H
Stage 13
Producers Service Corp.

Post Stage Report
August 11, 2019



Refresh Graph



[Refresh Graph](#)

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 13 |
| Date: | 8/11/19 |
| OWP (psi): | 3,860 |
| Starting Time | 1:19 AM |
| Ending Time | 3:12 AM |
| Pump Time (hr:min) | 01:53 |
| Swap Time (hr:min) | 01:29 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 8,171 |
| Average Treating Rate (bbl/min) | 83 |
| Average Treating Pressure (psi) | 8,839 |
| Maximum Treating Rate (bbl/min) | 84 |
| Maximum Treating Pressure (psi) | 9,566 |
| Displacement (psi) | 8,792 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,394 |
| Final FG (psi/ft) | 1.23 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,238 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 447 |
| Pad (bbls) | 510 |
| Treatment (bbls) | 7,362 |
| Displacement (bbls) | 394 |
| (Acid Included)Total Fluid (bbls) | 8,274 |
| Dirty Job Total (bbls) | 8,561 |
| 100 Mesh | 300,520 |
| 40/70 | 99,740 |
| Total Proppant (lbs) | 400,260 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 182 |
| DRB-LT | |
| Biocide | 88 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22872 |
| Date: | 8/11/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 13 |

State: WV
County: Monongahela
Operator: Jeremy/Stetson
PO/AFE: 100347-604

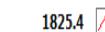
(Print Name)
Customer Re



NNE
Boggess 9H
Stage 14
Producers Service Corp.

Post Stage Report
August 11, 2019

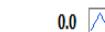
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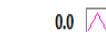
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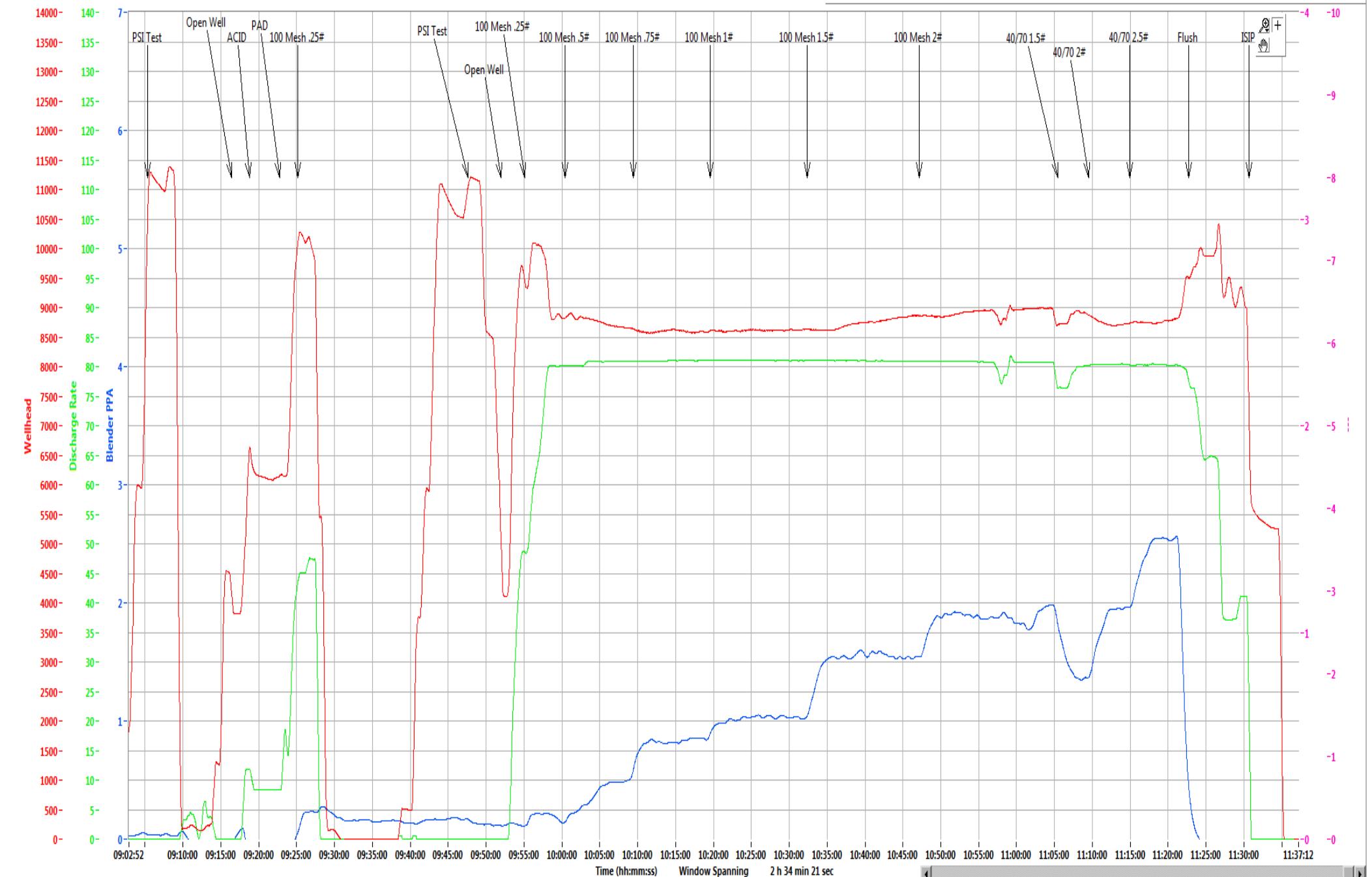
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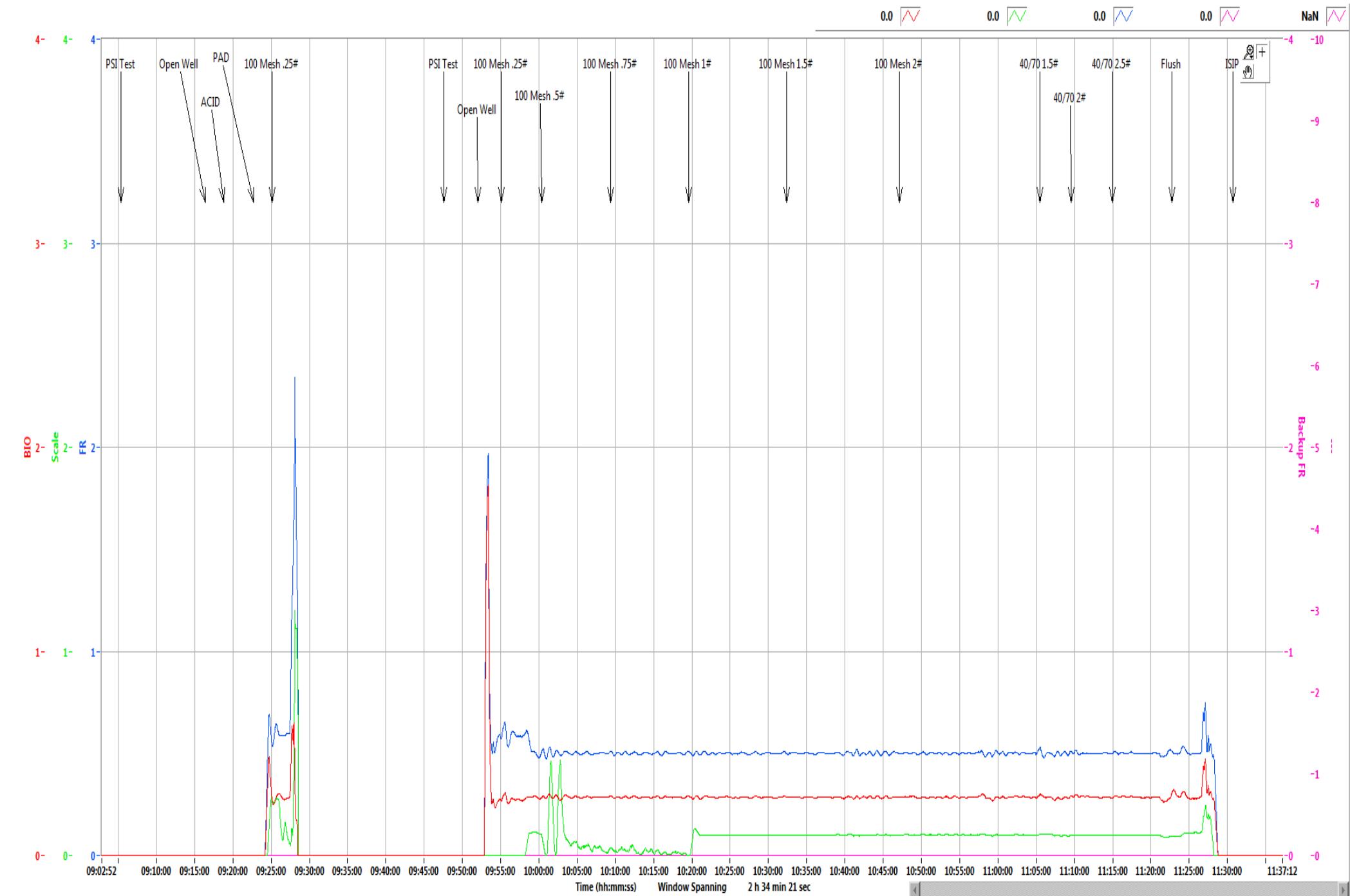
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Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 14 |
| Date: | 8/11/19 |
| OWP (psi): | 3,825 |
| Starting Time | 9:16 AM |
| Ending Time | 11:30 AM |
| Pump Time (hr:min) | 02:14 |
| Swap Time (hr:min) | 02:35 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 6,975 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,750 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 10,213 |
| Displacement (psi) | 9,533 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,775 |
| Final FG (psi/ft) | 1.15 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,399 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 442 |
| Pad (bbls) | 67 |
| Treatment (bbls) | 6,946 |
| Displacement (bbls) | 423 |
| (Acid Included)Total Fluid (bbls) | 7,447 |
| Dirty Job Total (bbls) | 7,746 |
| 100 Mesh | 300,940 |
| 40/70 | 100,120 |
| Total Proppant (lbs) | 401,060 |
| Total Proppant % | 100.3% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 155 |
| DRB-LT | |
| Biocide | 80 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22874 |
| Date: | 8/11/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 14 |

State: WV
County: Monongahela
Operator: Joe/Eck/Austin
PO/AFE: 100347-604

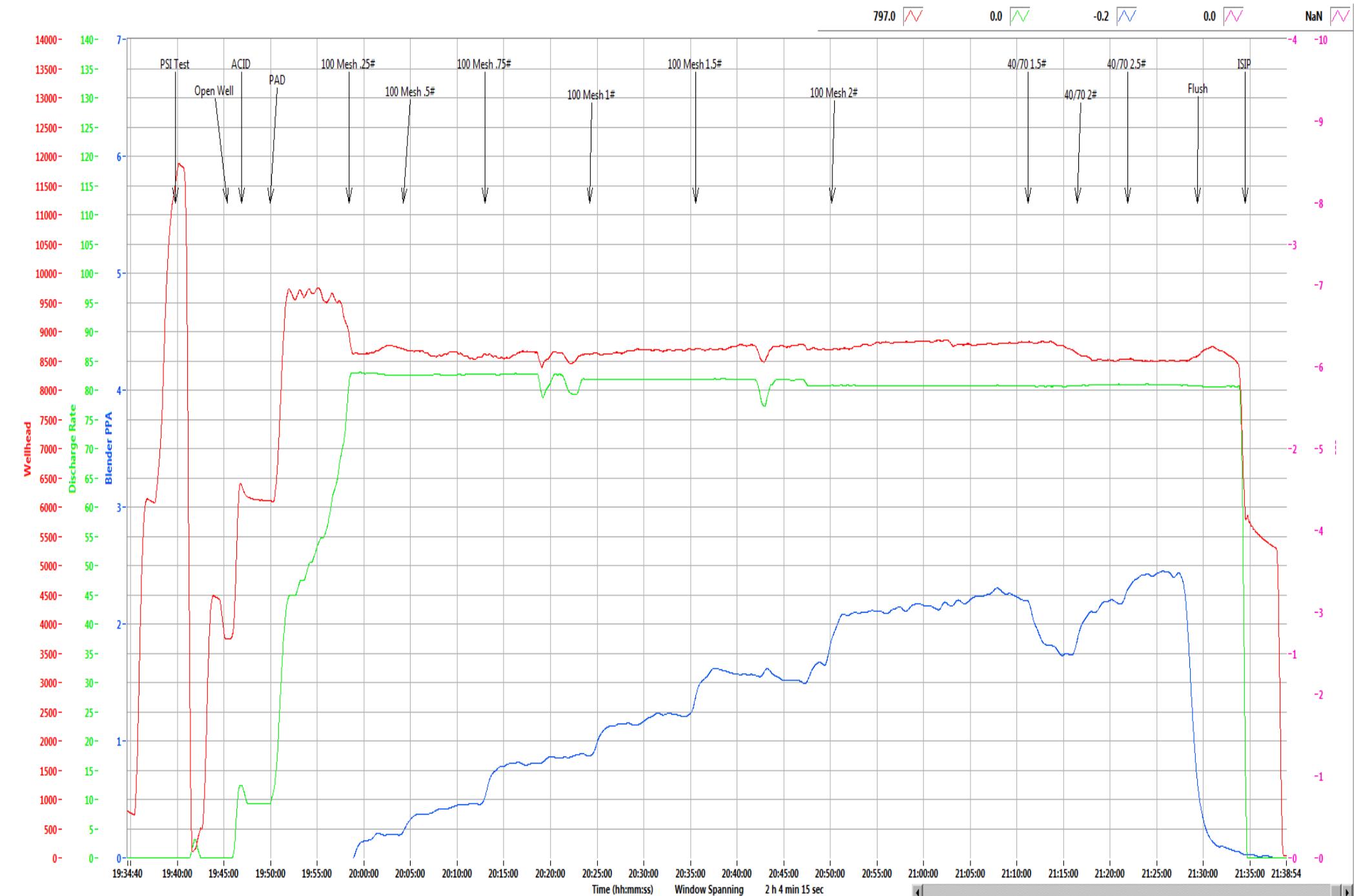
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,009.40 | CWT | \$ 5.50 | \$ 16,551.70 |
| SAND 40/70 | 40/70 white | 1,001.20 | CWT | \$ 5.75 | \$ 5,756.90 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 155 | GAL | \$ 17.75 | \$ 2,751.25 |
| BIOC11219A | Biocide @ 0.25 GPT | 80 | GAL | \$ 16.00 | \$ 1,280.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.53 | TON | \$ 55.00 | \$ 11,029.15 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 60,097.00 | |
| | | | 25% Discount Applied | \$ 15,024.25 | |
| | | | Net Stage Total | \$ 45,072.75 | |

(Print Name)
Customer Re

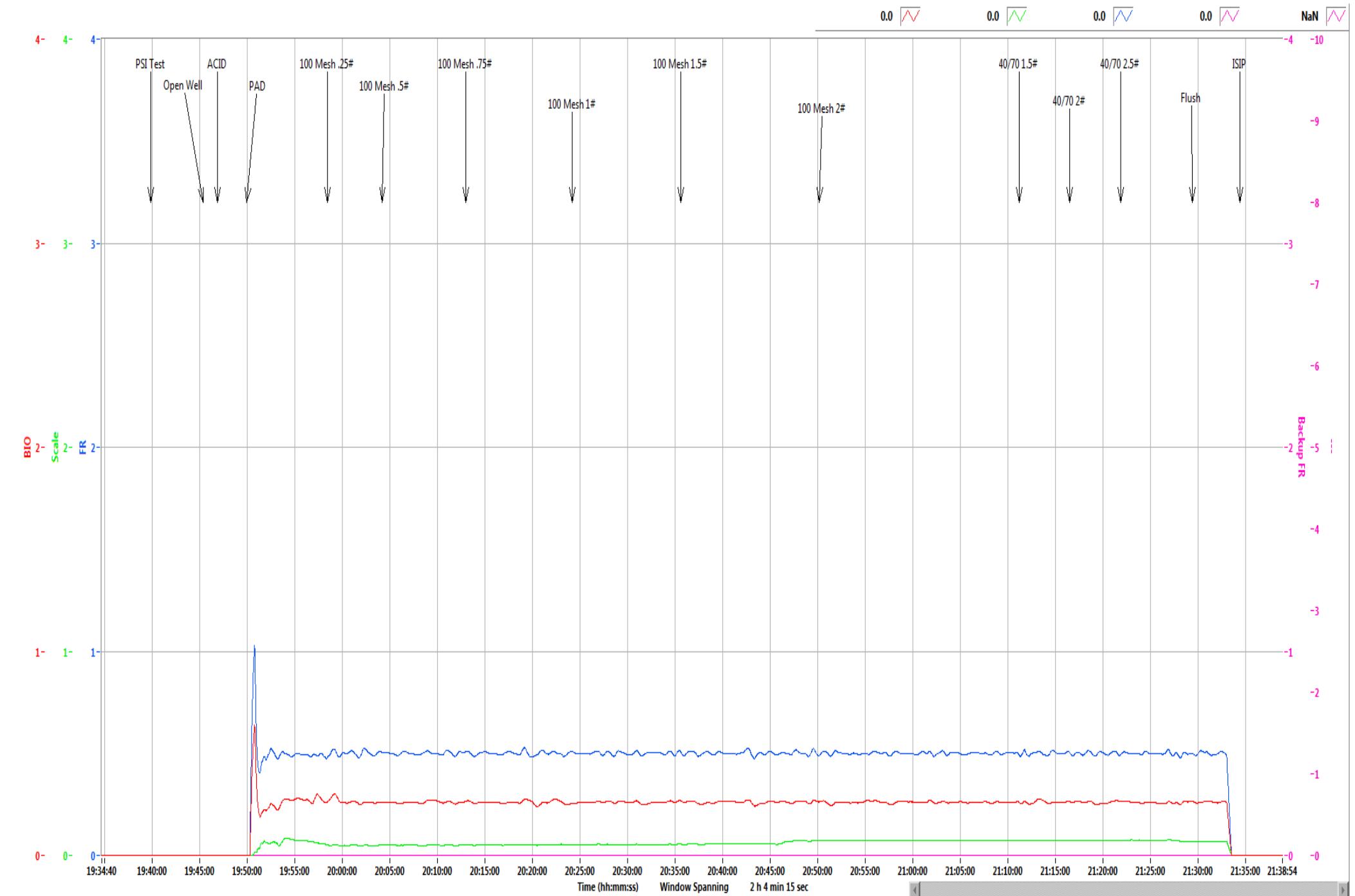


NNE
Boggess 9H
Stage 15
Producers Service Corp.

Post Stage Report
August 11, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 15 |
| Date: | 8/11/19 |
| OWP (psi): | 3,743 |
| Starting Time | 7:45 PM |
| Ending Time | 9:34 PM |
| Pump Time (hr:min) | 01:49 |
| Swap Time (hr:min) | 02:25 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 15 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,466 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 8,675 |
| Maximum Treating Rate (bbl/min) | 83 |
| Maximum Treating Pressure (psi) | 9,797 |
| Displacement (psi) | 8,610 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,631 |
| Final FG (psi/ft) | 1.13 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,920 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 1,104 |
| Pad (bbls) | 487 |
| Treatment (bbls) | 7,078 |
| Displacement (bbls) | 385 |
| (Acid Included)Total Fluid (bbls) | 7,956 |
| Dirty Job Total (bbls) | 8,268 |
| 100 Mesh | 300,080 |
| 40/70 | 101,060 |
| Total Proppant (lbs) | 401,140 |
| Total Proppant % | 100.3% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 180 |
| DRB-LT | |
| Biocide | 83 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22876
Date: 8/11/2019
Well Name: Boggess 9H
Stage No.: 15

State: WV
County: Monongahela
Operator: Jeremy/Stetson
PO/AFE: 100347-604

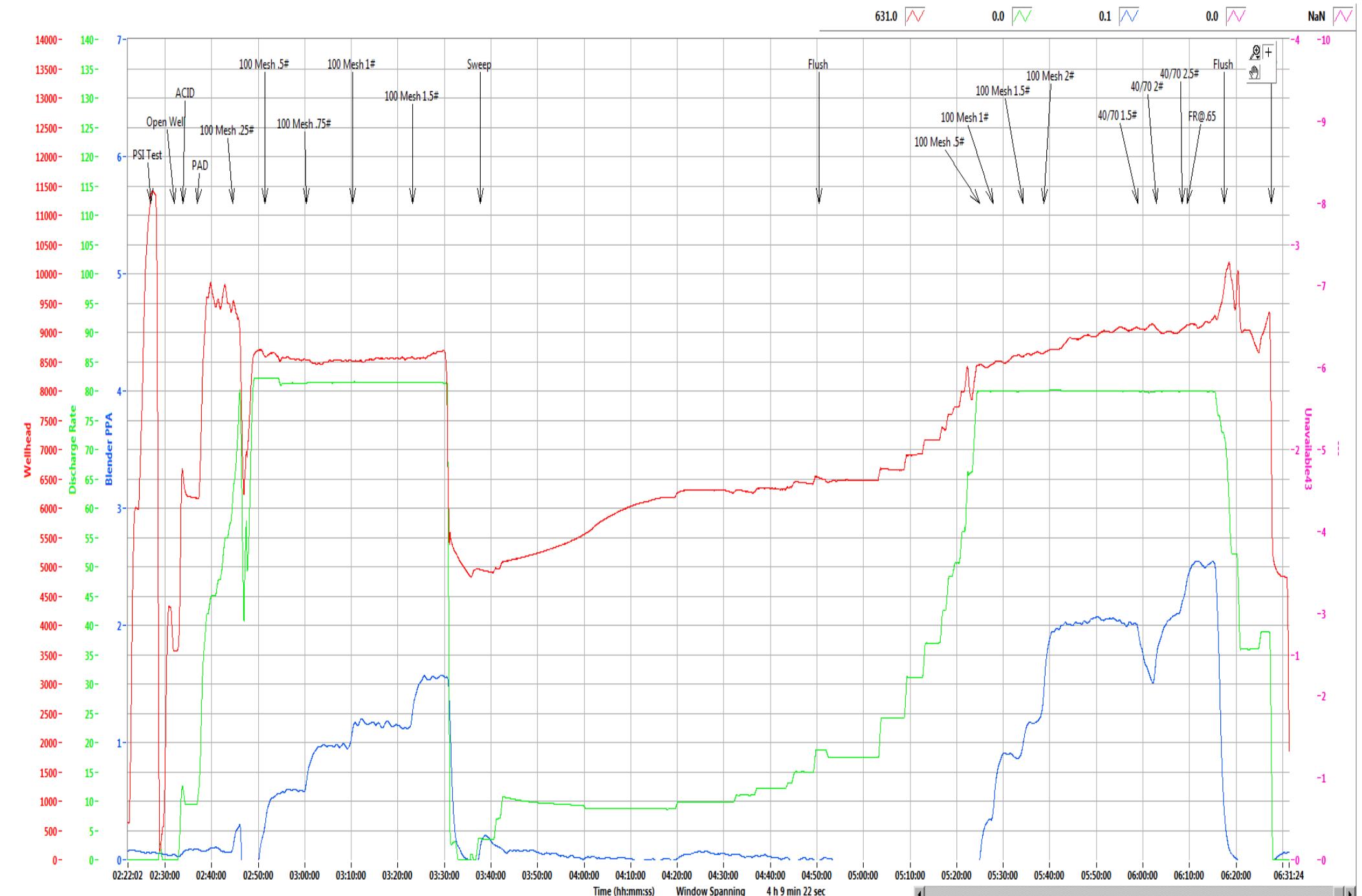
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,000.80 | CWT | \$ 5.50 | \$ 16,504.40 |
| SAND 40/70 | 40/70 white | 1,010.60 | CWT | \$ 5.75 | \$ 5,810.95 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 180 | GAL | \$ 17.75 | \$ 3,195.00 |
| BIOC11219A | Biocide @ 0.25 GPT | 83 | GAL | \$ 16.00 | \$ 1,328.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.57 | TON | \$ 55.00 | \$ 11,031.35 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 59,937.70 | |
| | | | 25% Discount Applied | \$ 14,984.43 | |
| | | | Net Stage Total | \$ 44,953.28 | |

(Print Name)
Customer Re

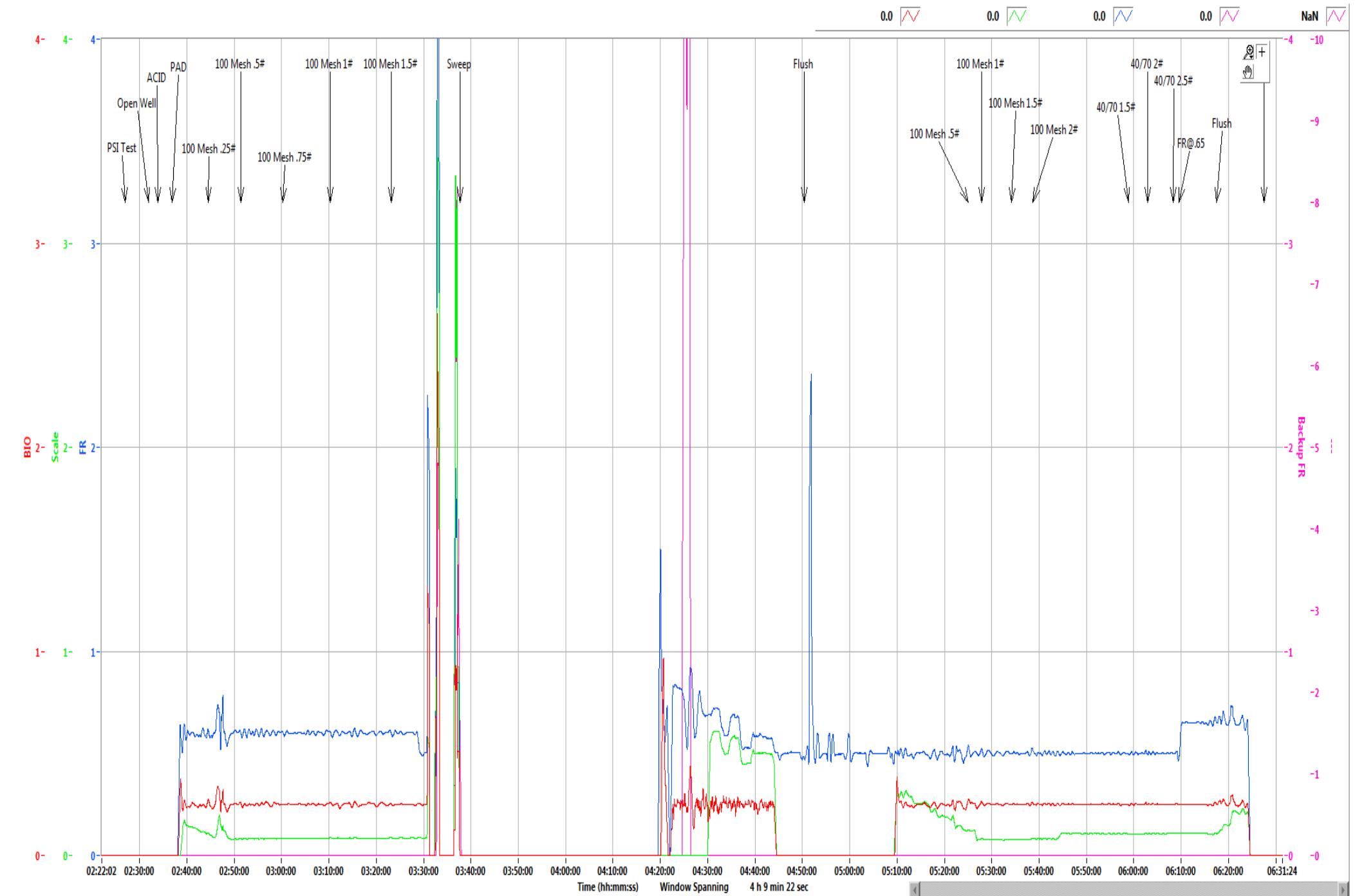


NNE
Boggess 9H
Stage 16
Producers Service Corp.

Post Stage Report
August 12, 2019



Refresh Graph



Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 16 |
| Date: | 8/12/19 |
| OWP (psi): | 3,569 |
| Starting Time | 2:31 AM |
| Ending Time | 6:27 AM |
| Pump Time (hr:min) | 03:56 |
| Swap Time (hr:min) | 01:46 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 15 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 6,786 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,892 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 10,496 |
| Displacement (psi) | 9,769 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,250 |
| Final FG (psi/ft) | 1.09 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|------------------------------------|---------|
| Slickwater (bbls) | 10,266 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 439 |
| Pad (bbls) | 348 |
| Treatment (bbls) | 8,315 |
| Displacement (bbls) | 438 |
| (Acid Included) Total Fluid (bbls) | 10,302 |
| Dirty Job Total (bbls) | 10,530 |
| 100 Mesh | 300,300 |
| 40/70 | 98,100 |
| Total Proppant (lbs) | 398,400 |
| Total Proppant % | 99.6% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 220 |
| DRB-LT | |
| Biocide | 105 |
| Scale | 49 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22878 |
| Date: | 8/12/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 16 |

State: WV
County: Monongahela
Operator: Jeremy/Stetson
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,003.00 | CWT | \$ 5.50 | \$ 16,516.50 |
| SAND 40/70 | 40/70 white | 981.00 | CWT | \$ 5.75 | \$ 5,640.75 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 220 | GAL | \$ 17.75 | \$ 3,905.00 |
| BIOC11219A | Biocide @ 0.25 GPT | 105 | GAL | \$ 16.00 | \$ 1,680.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 49 | GAL | \$ 16.00 | \$ 784.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 199.2 | TON | \$ 55.00 | \$ 10,956.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 61,262.25 | |
| | | | 25% Discount Applied | \$ 15,315.56 | |
| | | | Net Stage Total | \$ 45,946.69 | |

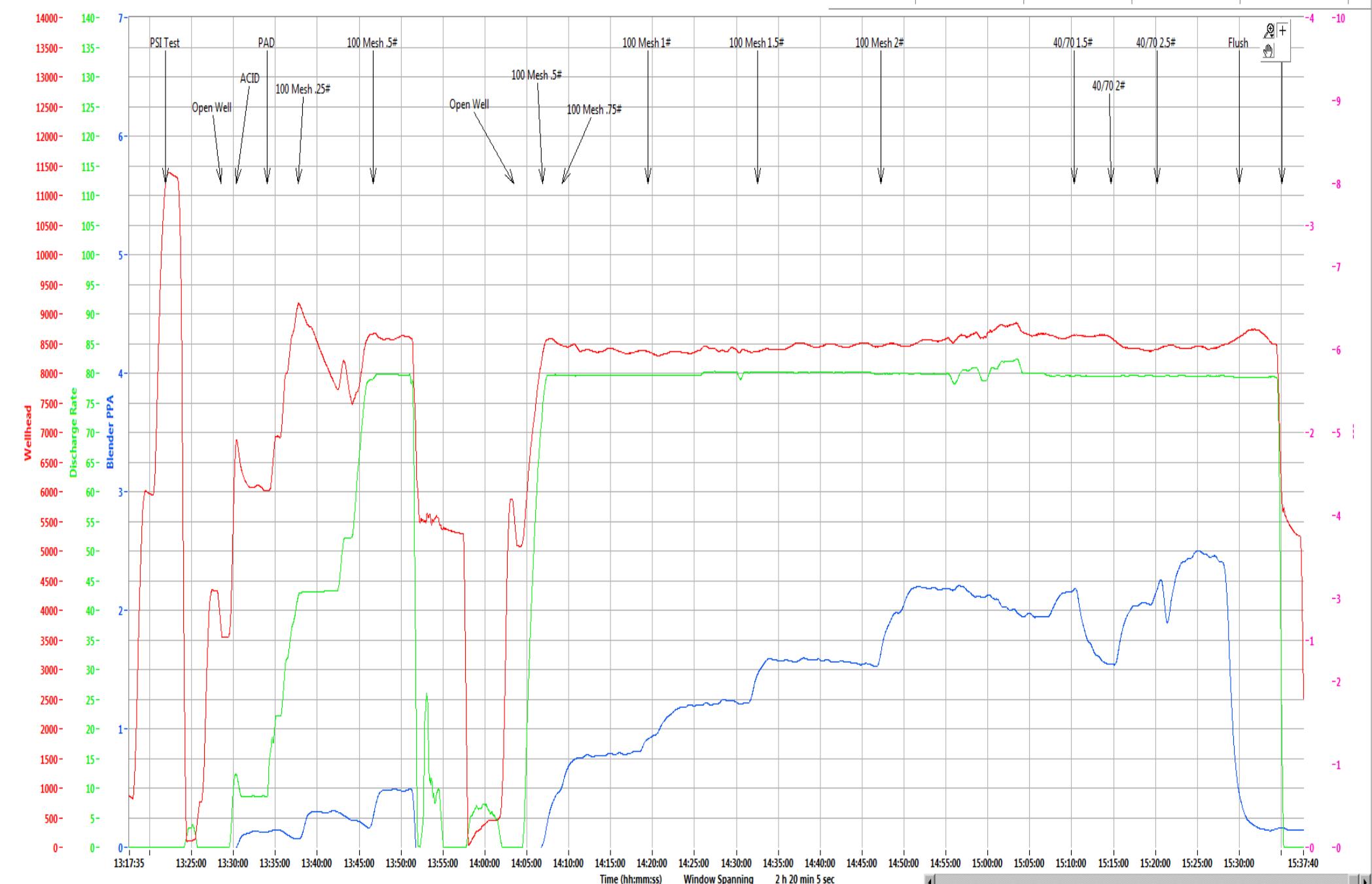
(Print Name)
Customer Re



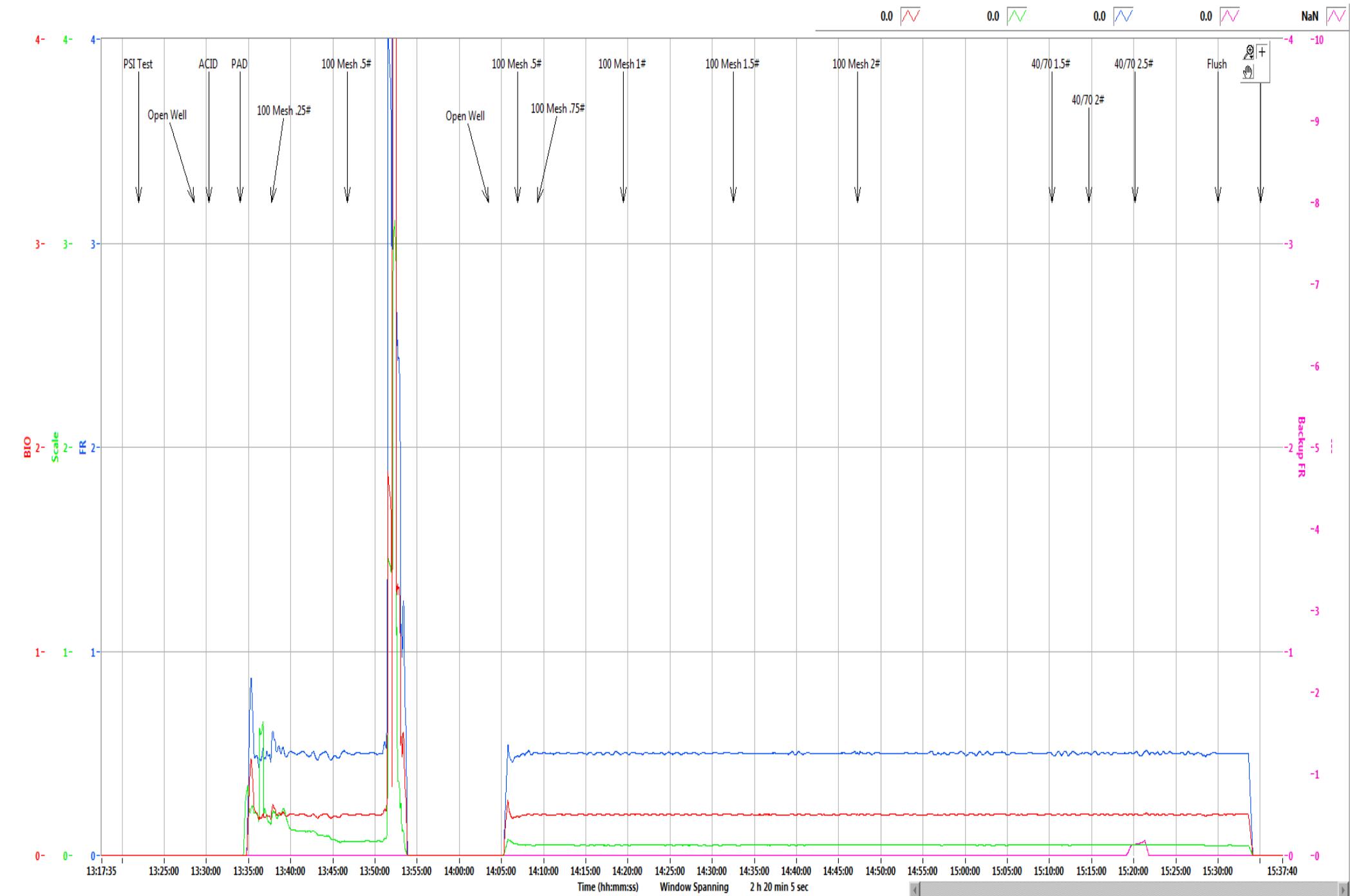
NNE
Boggess 9H
Stage 17
Producers Service Corp.

Post Stage Report
August 12, 2019

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Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 17 |
| Date: | 8/12/19 |
| OWP (psi): | 3,544 |
| Starting Time | 1:28 PM |
| Ending Time | 3:35 PM |
| Pump Time (hr:min) | 02:07 |
| Swap Time (hr:min) | 02:35 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 14 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 7,085 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,486 |
| Maximum Treating Rate (bbl/min) | 83 |
| Maximum Treating Pressure (psi) | 9,234 |
| Displacement (psi) | 8,709 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,538 |
| Final FG (psi/ft) | 1.12 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,843 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 408 |
| Pad (bbls) | 171 |
| Treatment (bbls) | 7,339 |
| Displacement (bbls) | 376 |
| (Acid Included)Total Fluid (bbls) | 7,891 |
| Dirty Job Total (bbls) | 8,201 |
| 100 Mesh | 300,520 |
| 40/70 | 102,740 |
| Total Proppant (lbs) | 403,260 |
| Total Proppant % | 100.8% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 165 |
| DRB-LT | |
| Biocide | 80 |
| Scale | 16 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22880 |
| Date: | 8/12/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 17 |

State: WV
County: Monongahela
Operator: Eck/Back
PO/AFE: 100347-604

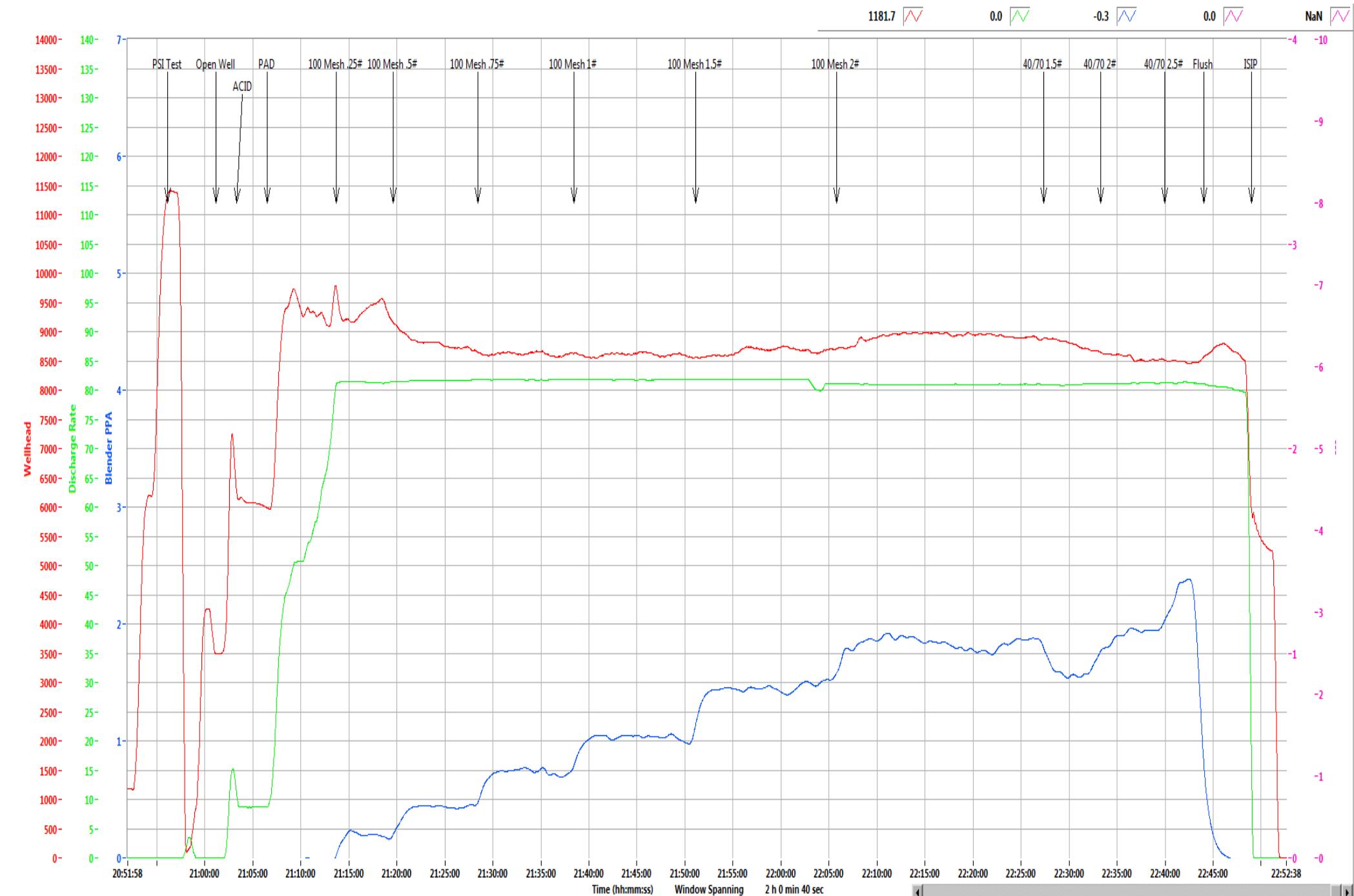
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|----------------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHF PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,005.20 | CWT | \$ 5.50 | \$ 16,528.60 |
| SAND 40/70 | 40/70 white | 1,027.40 | CWT | \$ 5.75 | \$ 5,907.55 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 165 | GAL | \$ 17.75 | \$ 2,928.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 80 | GAL | \$ 16.00 | \$ 1,280.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 16 | GAL | \$ 16.00 | \$ 256.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 201.63 | TON | \$ 55.00 | \$ 11,089.65 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | | Total No Discount | \$ 60,430.55 |
| | | | | 25% Discount Applied | \$ 15,107.64 |
| | | | | Net Stage Total | \$ 45,322.91 |

(Print Name)
Customer Re

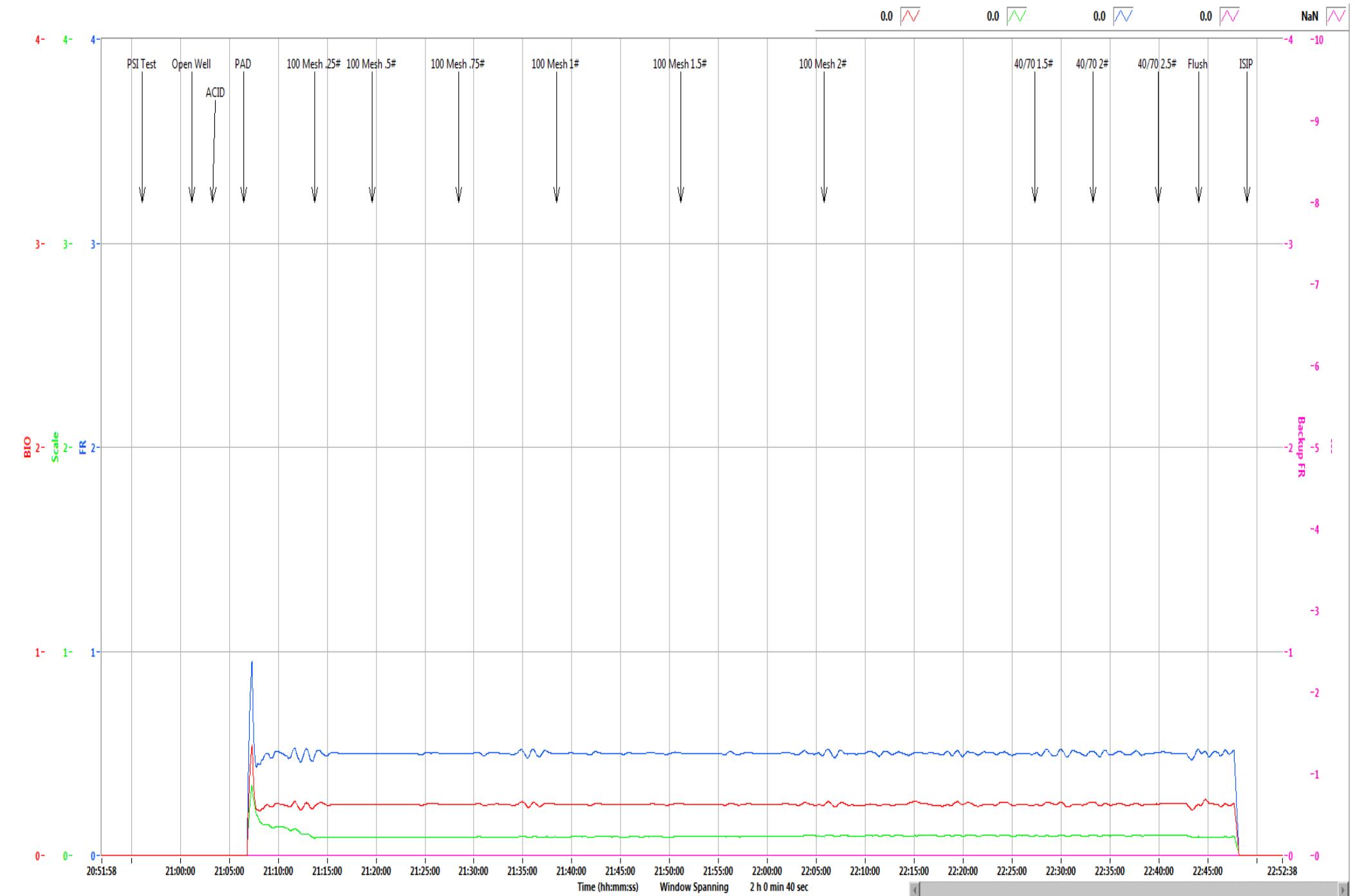


NNE
Boggess 9H
Stage 18
Producers Service Corp.

Post Stage Report
August 12, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 18 |
| Date: | 8/12/19 |
| OWP (psi): | 3,489 |
| Starting Time | 9:01 PM |
| Ending Time | 10:49 PM |
| Pump Time (hr:min) | 01:48 |
| Swap Time (hr:min) | 01:26 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 7,665 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 8,767 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 9,940 |
| Displacement (psi) | 8,586 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,942 |
| Final FG (psi/ft) | 1.17 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,788 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 400 |
| Pad (bbls) | 377 |
| Treatment (bbls) | 7,073 |
| Displacement (bbls) | 370 |
| (Acid Included)Total Fluid (bbls) | 7,824 |
| Dirty Job Total (bbls) | 8,147 |
| 100 Mesh | 300,560 |
| 40/70 | 103,100 |
| Total Proppant (lbs) | 403,660 |
| Total Proppant % | 100.9% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 170 |
| DRB-LT | |
| Biocide | 82 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22882
Date: 8/12/2019
Well Name: Boggess 9H
Stage No.: 18

State: WV
County: Monongahela
Operator: Eck/Back
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|----------------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 60 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,005.60 | CWT | \$ 5.50 | \$ 16,530.80 |
| SAND 40/70 | 40/70 white | 1,031.00 | CWT | \$ 5.75 | \$ 5,928.25 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 170 | GAL | \$ 17.75 | \$ 3,017.50 |
| BIOC11219A | Biocide @ 0.25 GPT | 82 | GAL | \$ 16.00 | \$ 1,312.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 201.83 | TON | \$ 55.00 | \$ 11,100.65 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | | Total No Discount | \$ 59,957.20 |
| | | | | 25% Discount Applied | \$ 14,989.30 |
| | | | | Net Stage Total | \$ 44,967.90 |

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 19
Producers Service Corp.

Post Stage Report
August 13, 2019

529.9

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-10

-9

-8

-7

-6

-5

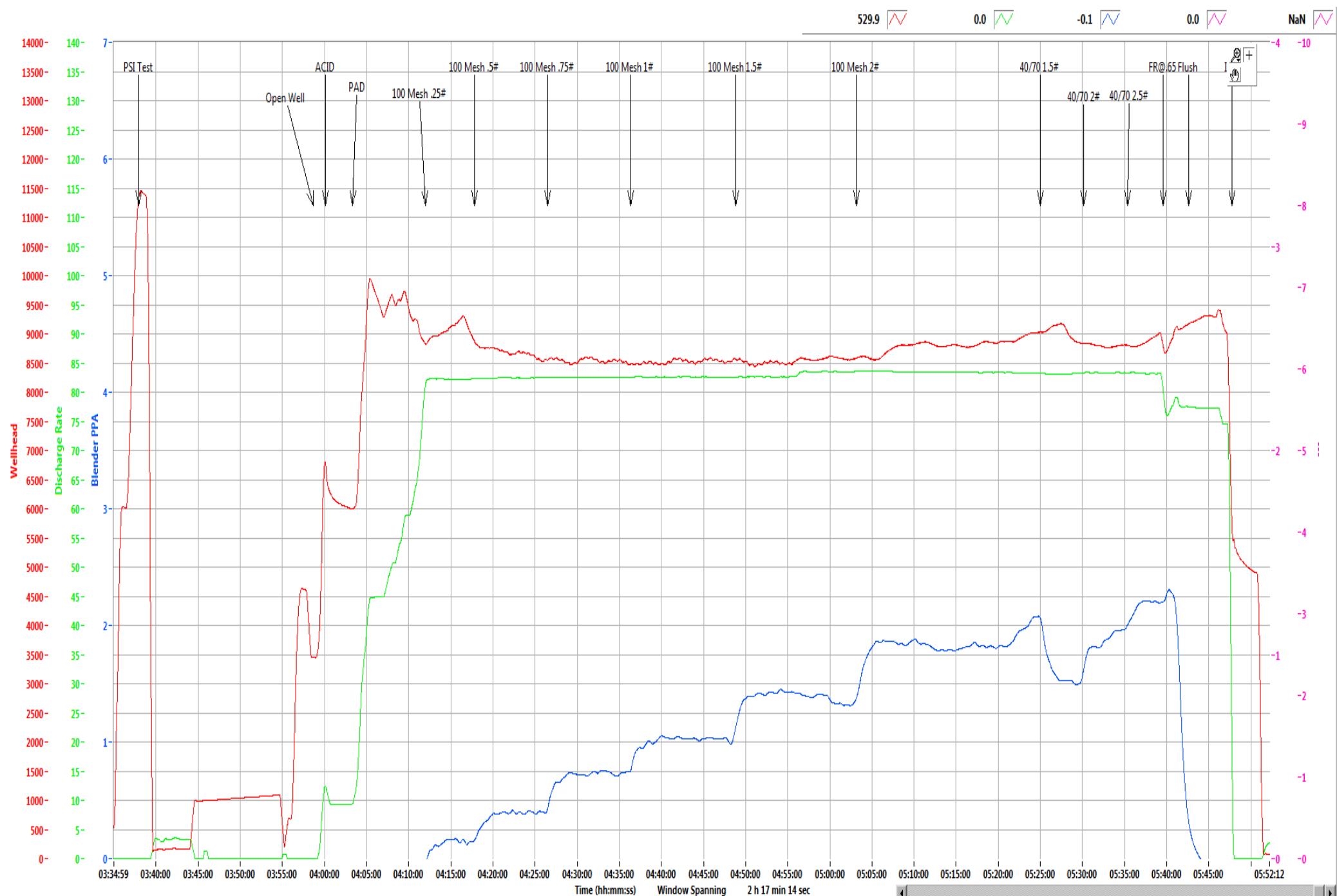
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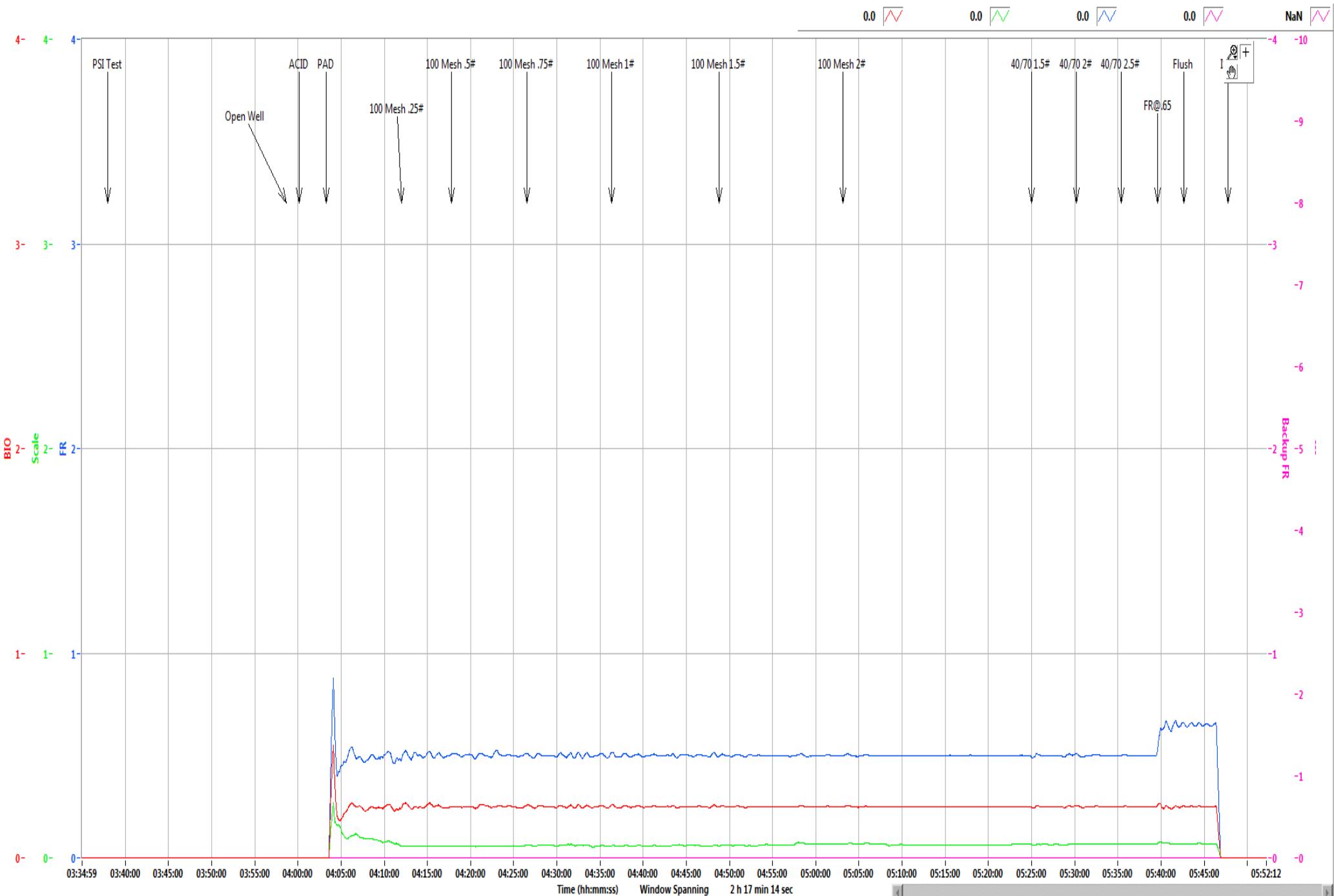
-2

-1

-0



Refresh Graph



[Refresh Graph](#)

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 19 |
| Date: | 8/13/19 |
| OWP (psi): | 3,442 |
| Starting Time | 3:37 AM |
| Ending Time | 12:00 AM |
| Pump Time (hr:min) | 05:47 |
| Swap Time (hr:min) | 01:28 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 7,265 |
| Average Treating Rate (bbl/min) | 83 |
| Average Treating Pressure (psi) | 8,718 |
| Maximum Treating Rate (bbl/min) | 84 |
| Maximum Treating Pressure (psi) | 10,000 |
| Displacement (psi) | 9,260 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,358 |
| Final FG (psi/ft) | 1.10 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,022 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 400 |
| Pad (bbls) | 447 |
| Treatment (bbls) | 7,188 |
| Displacement (bbls) | 365 |
| (Acid Included)Total Fluid (bbls) | 8,058 |
| Dirty Job Total (bbls) | 8,346 |
| 100 Mesh | 300,180 |
| 40/70 | 100,260 |
| Total Proppant (lbs) | 400,440 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 171 |
| DRB-LT | |
| Biocide | 84 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22884 |
| Date: | 8/13/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 19 |

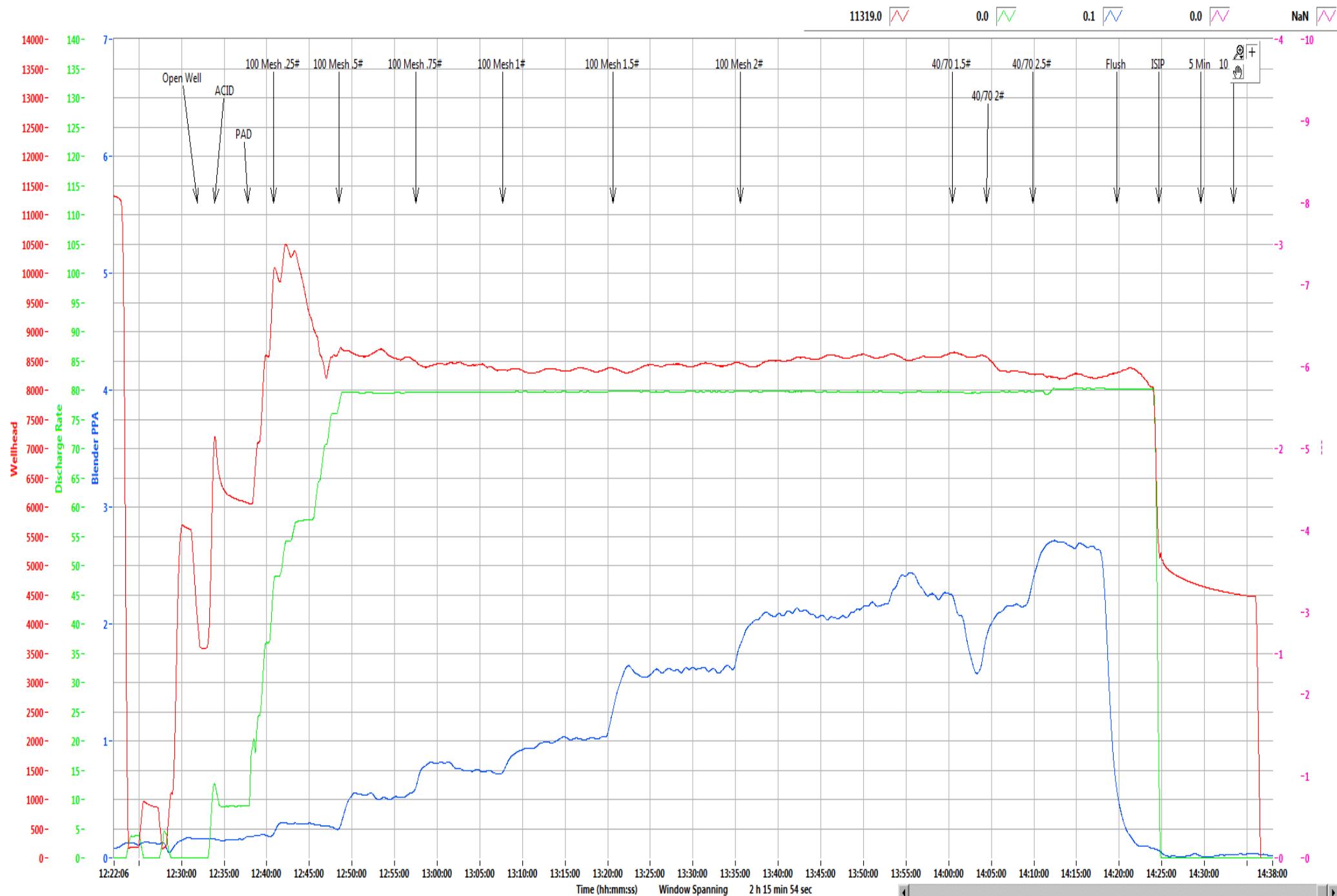
State: WV
County: Monongahela
Operator: Stetson/Jeremy M
PO/AFE: 100347-604

(Print Name)
Customer Re

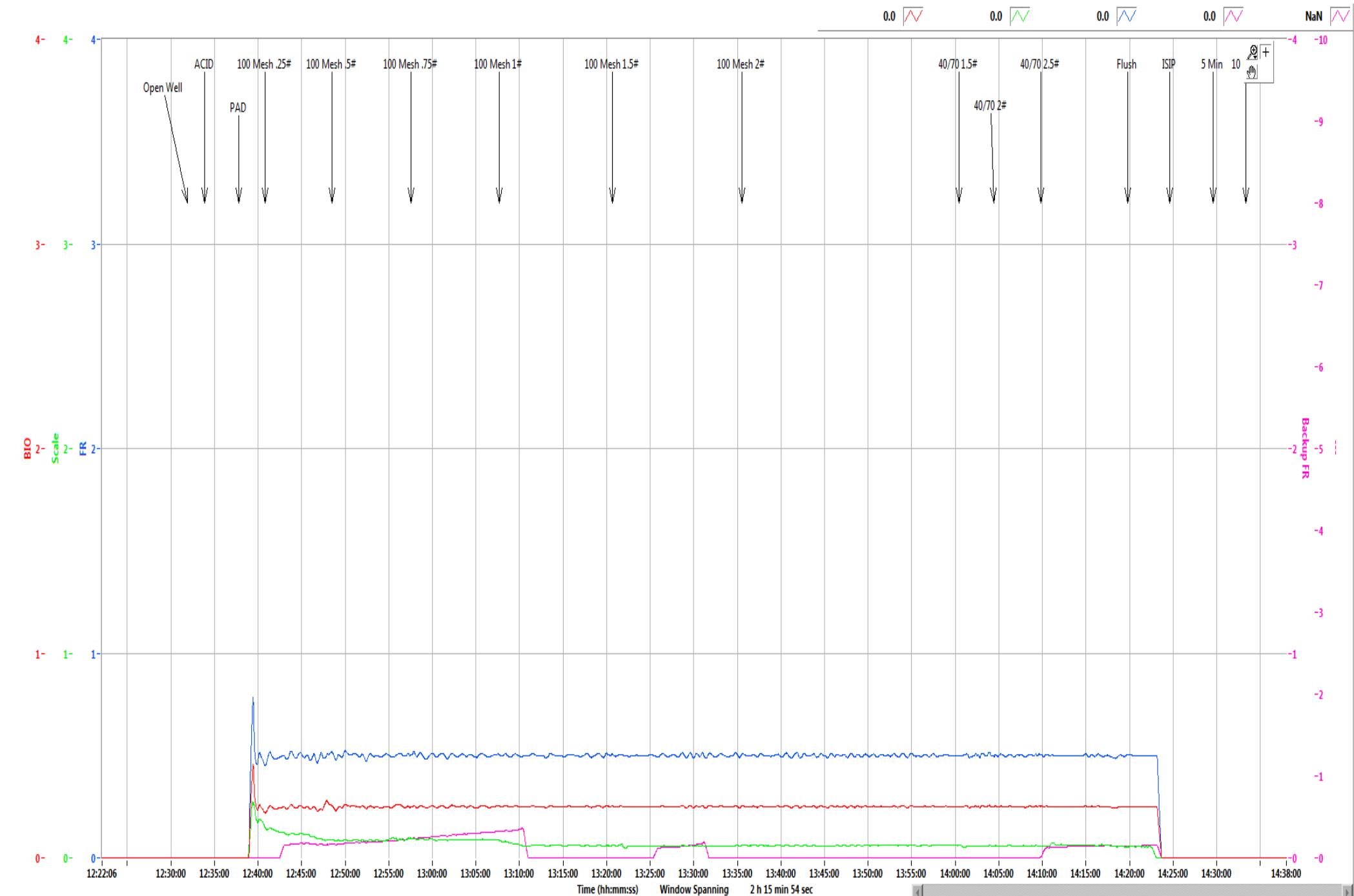


NNE
Boggess 9H
Stage 20
Producers Service Corp.

Post Stage Report
August 13, 2019



[Refresh Graph](#)



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 20 |
| Date: | 8/13/19 |
| OWP (psi): | 3,597 |
| Starting Time | 12:31 PM |
| Ending Time | 2:24 PM |
| Pump Time (hr:min) | 01:53 |
| Swap Time (hr:min) | 02:19 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 7,587 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,444 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 10,556 |
| Displacement (psi) | 8,330 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,099 |
| Final FG (psi/ft) | 1.07 |
| 5 Minute Leakoff Pressure (psi) | 4,642 |
| 5 Minute Leakoff Rate (psi/min) | 91 |
| 10 Minute Leakoff Pressure (psi) | 4,515 |
| 10 Minute Leakoff Rate (psi/min) | 58 |
| 15 Minute Leakoff Pressure (psi) | 4,405 |
| 15 Minute Leakoff Rate (psi/min) | 46 |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,896 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 401 |
| Pad (bbls) | 151 |
| Treatment (bbls) | 7,427 |
| Displacement (bbls) | 363 |
| (Acid Included)Total Fluid (bbls) | 7,944 |
| Dirty Job Total (bbls) | 8,259 |
| 100 Mesh | 297,180 |
| 40/70 | 106,100 |
| Total Proppant (lbs) | 403,280 |
| Total Proppant % | 100.8% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 170 |
| DRB-LT | |
| Biocide | 85 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22886 |
| Date: | 8/13/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 20 |

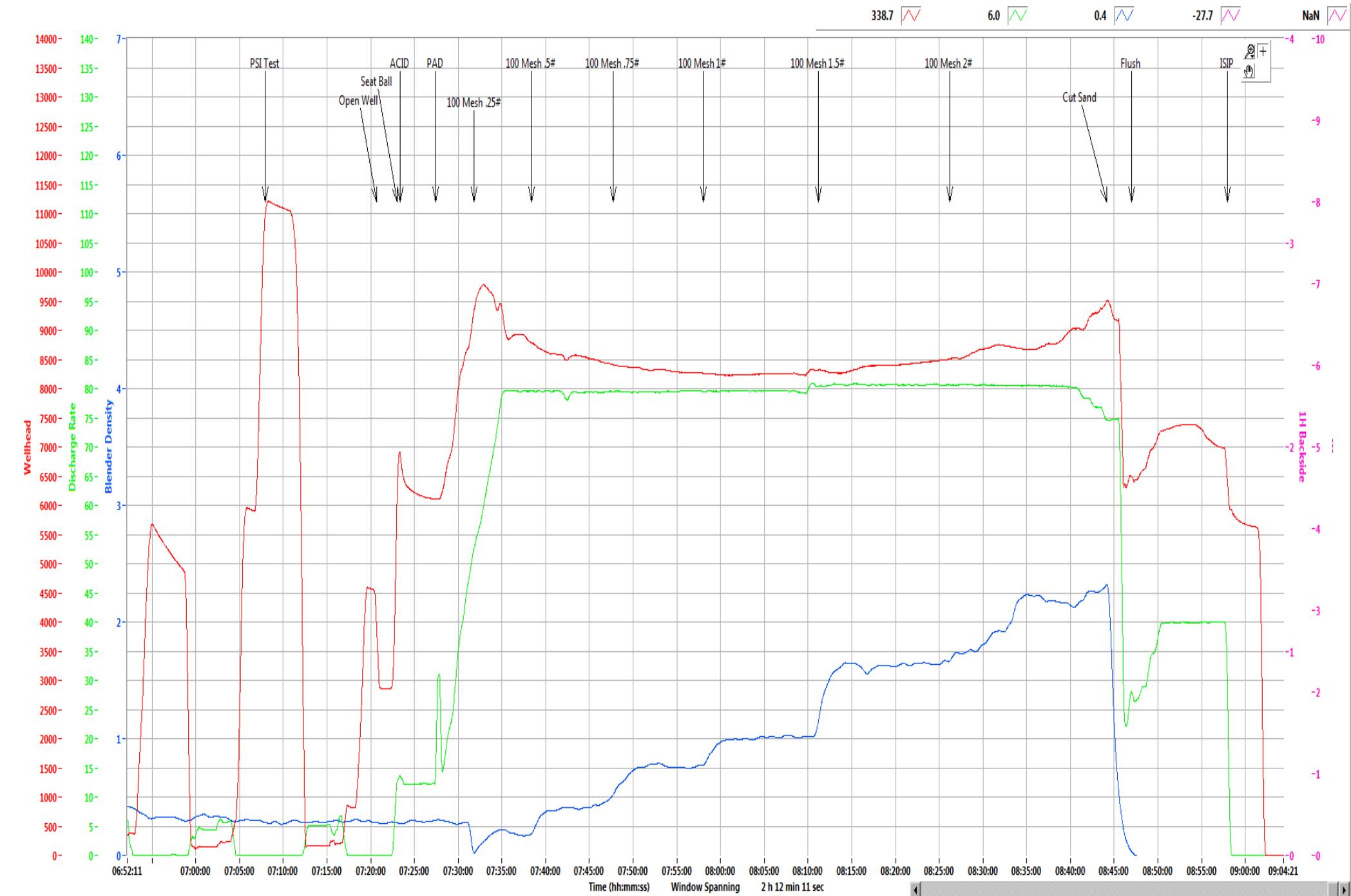
State: WV
County: Monongahela
Operator: Jamie/Brad
PO/AFE: 100347-604

(Print Name)
Customer Re

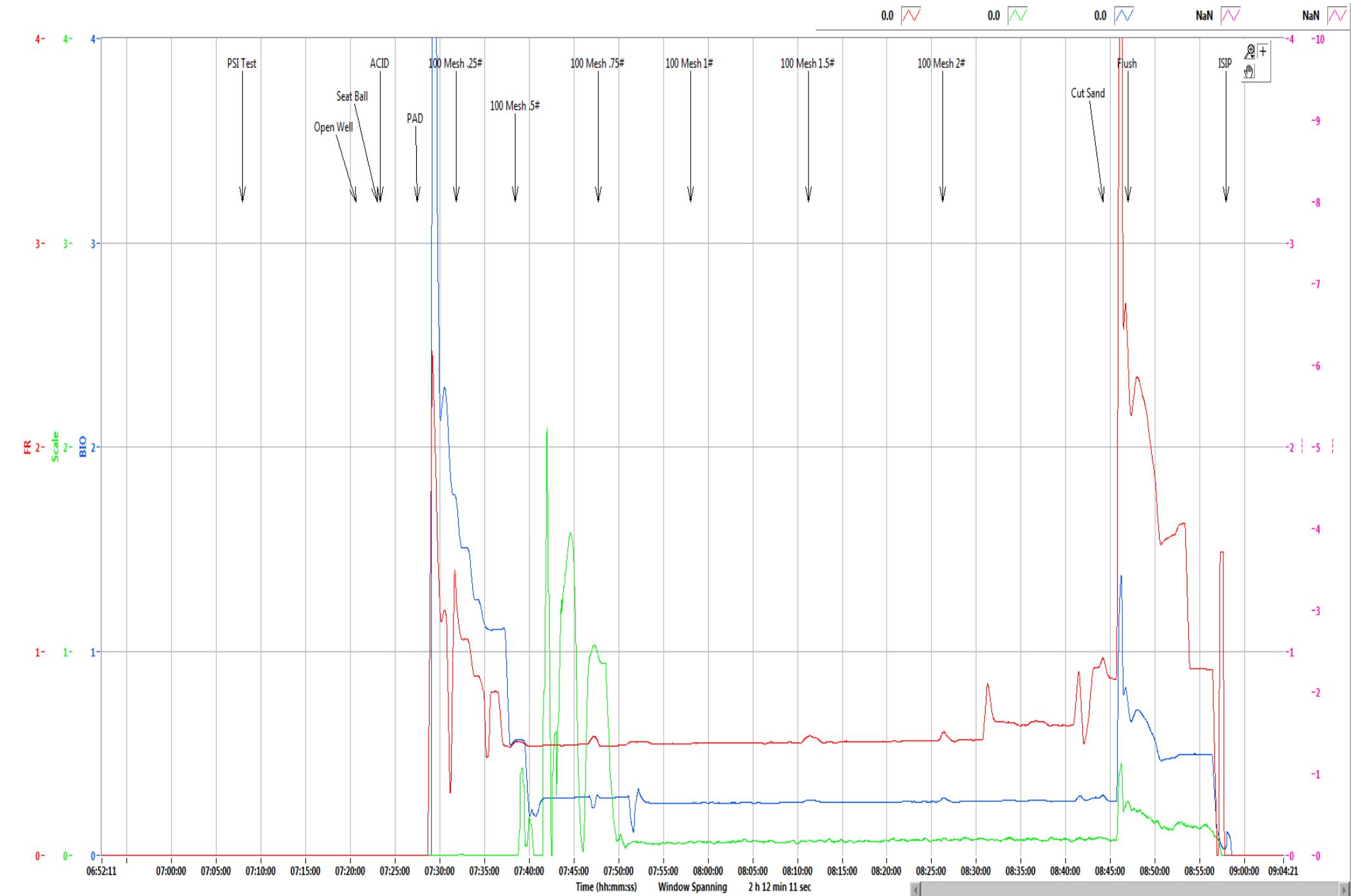


**NNE
Boggess 9H
Stage 21
Producers Service Corp.**

**Post Stage Report
August 15, 2019**



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|---------------------------|---------|
| Stage | 21 |
| Date: | 8/15/19 |
| OWP (psi): | 2,887 |
| Starting Time | 7:20 AM |
| Ending Time | 8:57 AM |
| Pump Time (hr:min) | 01:37 |
| Swap Time (hr:min) | 06:40 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|---|-------|
| Breakdown Pressure (psi) | 7,181 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,519 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 9,829 |
| Displacement (psi) | 6,453 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,830 |
| Final FG (psi/ft) | 1.16 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|---|---------|
| Slickwater (bbls) | 6,142 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 1,000 |
| Pad (bbls) | 140 |
| Treatment (bbls) | 5,644 |
| Displacement (bbls) | 403 |
| (Acid Included) Total Fluid (bbls) | 6,190 |
| Dirty Job Total (bbls) | 6,496 |
| 100 Mesh | 266,740 |
| 40/70 | |
| Total Proppant (lbs) | 266,740 |
| Total Proppant % | 66.7% |

CHEMICALS

| | |
|----------------|-----|
| FR 9800 | 161 |
| DRB-LT | |
| Biocide | 70 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22891 |
| Date: | 8/15/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 21 |

State: WV
County: Monongahela
Operator: Joe/Eck/Austin
PO/AFE: 100347-604

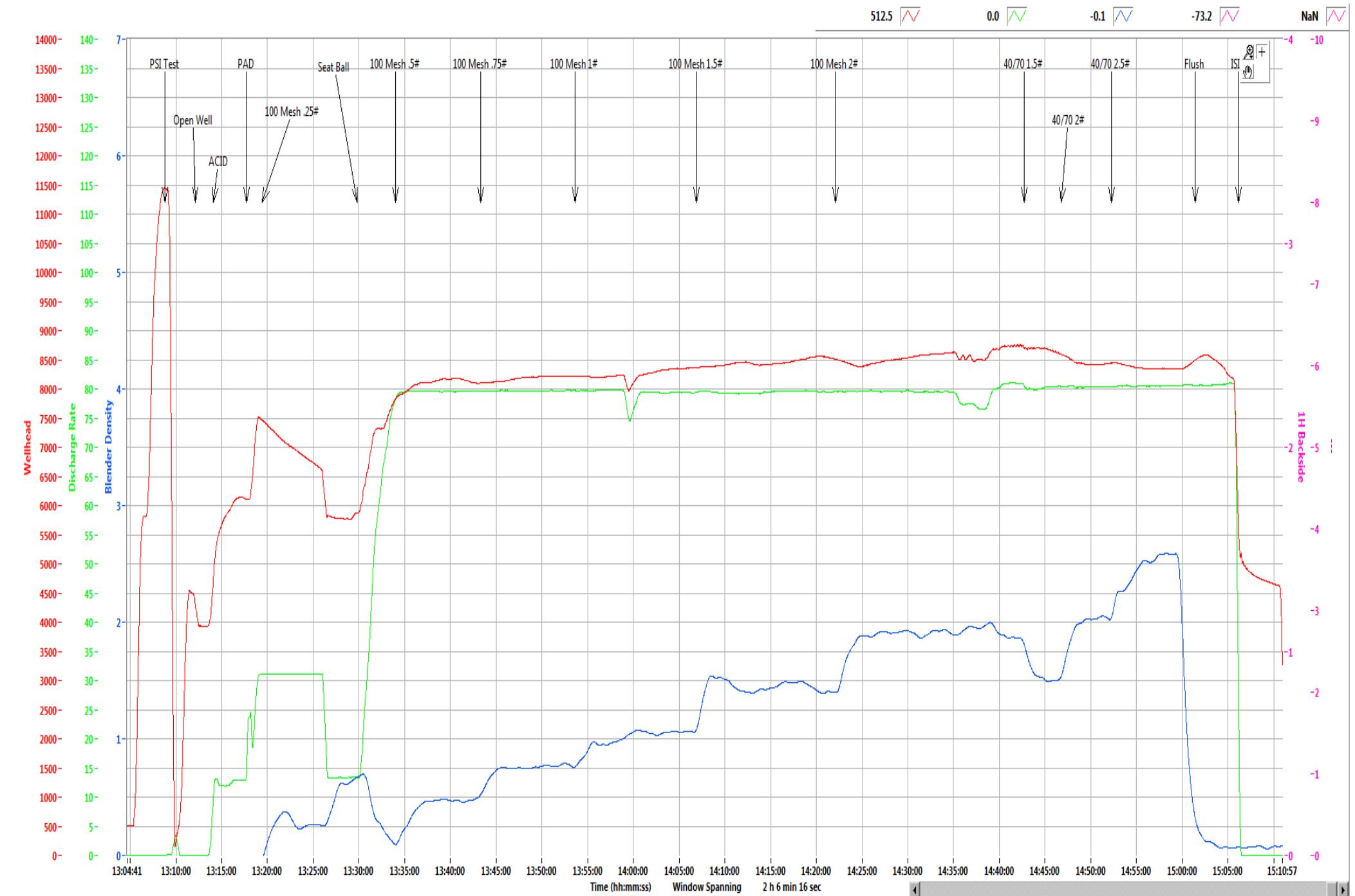
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,667.40 | CWT | \$ 5.50 | \$ 14,670.70 |
| SAND 40/70 | 40/70 white | 0.00 | CWT | \$ 5.75 | \$ - |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 161 | GAL | \$ 17.75 | \$ 2,857.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 70 | GAL | \$ 16.00 | \$ 1,120.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 133.37 | TON | \$ 55.00 | \$ 7,335.35 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | 197 | GAL | \$ 3.04 | \$ 598.88 |
| | | | | | |
| | | | Total No Discount | \$ 48,711.80 | |
| | | | 25% Discount Applied | \$ 12,177.95 | |
| | | | Net Stage Total | \$ 37,132.73 | |

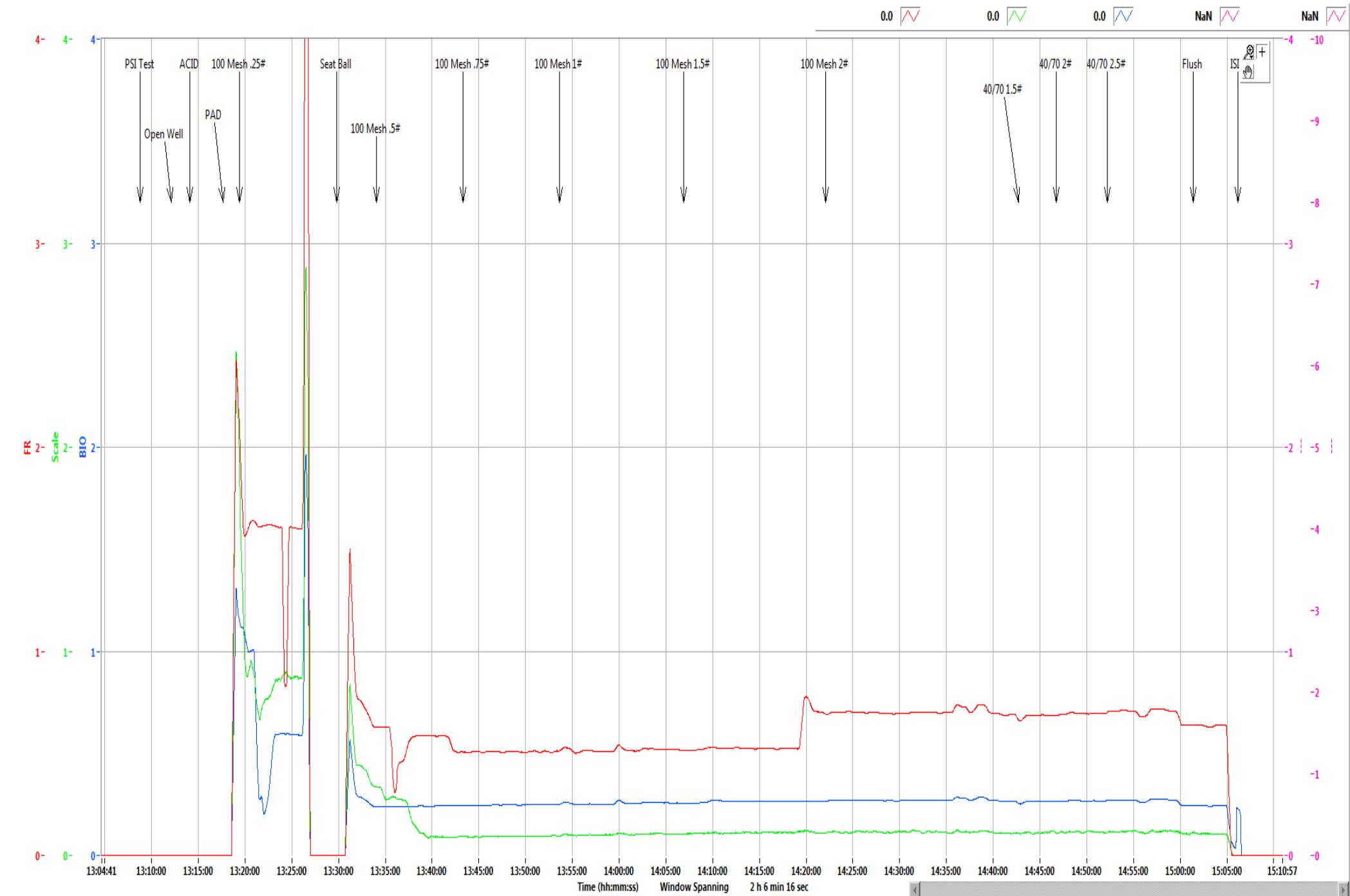
(Print Name)
Customer Re



**NNE
Boggess 9H
Stage 22
Producers Service Corp.**

**Post Stage Report
August 15, 2019**





Refresh Graph

Boggess Pad

9H

| | |
|---------------------------|---------|
| Stage | 22 |
| Date: | 8/15/19 |
| OWP (psi): | 3,925 |
| Starting Time | 1:12 PM |
| Ending Time | 3:06 PM |
| Pump Time (hr:min) | 01:54 |
| Swap Time (hr:min) | 04:15 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 15 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|---|-------|
| Breakdown Pressure (psi) | 5,904 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,378 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,839 |
| Displacement (psi) | 8,483 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,041 |
| Final FG (psi/ft) | 1.06 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|---|---------|
| Slickwater (bbls) | 7,428 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 488 |
| Pad (bbls) | 43 |
| Treatment (bbls) | 7,186 |
| Displacement (bbls) | 357 |
| (Acid Included) Total Fluid (bbls) | 7,476 |
| Dirty Job Total (bbls) | 7,898 |
| 100 Mesh | 299,960 |
| 40/70 | 103,000 |
| Total Proppant (lbs) | 402,960 |
| Total Proppant % | 100.7% |

CHEMICALS

| | |
|----------------|-----|
| FR 9800 | 190 |
| DRB-LT | |
| Biocide | 79 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22892 |
| Date: | 8/15/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 22 |

State: WV
County: Monongahela
Operator: Joe/Eck/Austin
PO/AFE: 100347-604

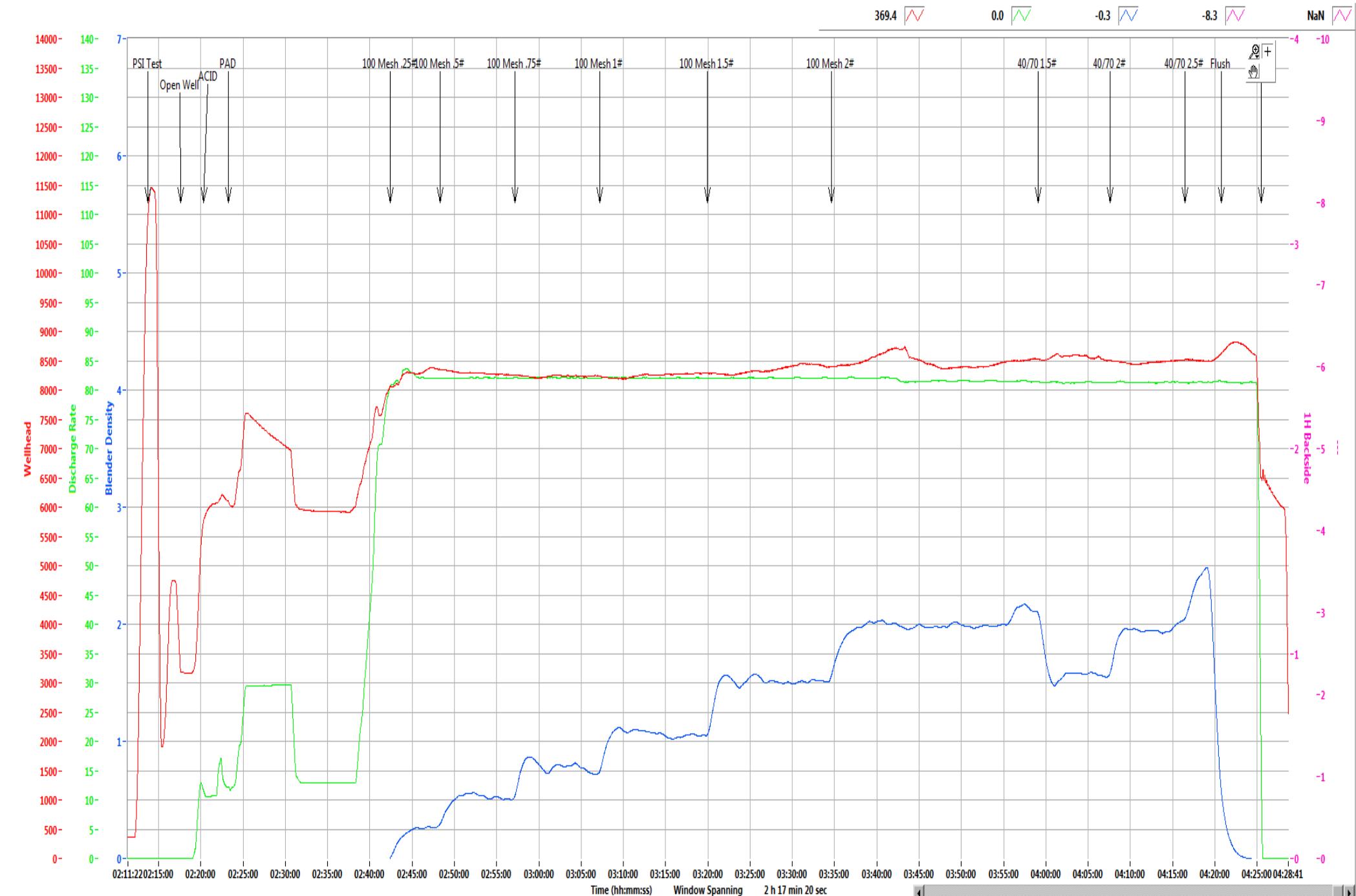
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,999.60 | CWT | \$ 5.50 | \$ 16,497.80 |
| SAND 40/70 | 40/70 white | 1,030.00 | CWT | \$ 5.75 | \$ 5,922.50 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 190 | GAL | \$ 17.75 | \$ 3,372.50 |
| BIOC11219A | Biocide @ 0.25 GPT | 79 | GAL | \$ 16.00 | \$ 1,264.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 19 | GAL | \$ 16.00 | \$ 304.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 201.48 | TON | \$ 55.00 | \$ 11,081.40 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | 197 | GAL | \$ 3.04 | \$ 598.88 |
| | | | | | |
| | | | Total No Discount | \$ 60,882.20 | |
| | | | 25% Discount Applied | \$ 15,220.55 | |
| | | | Net Stage Total | \$ 46,260.53 | |

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 23
Producers Service Corp.

Post Stage Report
August 16, 2019



Refresh Graph



Boggess Pad

9H

| | |
|---------------------------|---------|
| Stage | 23 |
| Date: | 8/16/19 |
| OWP (psi): | 3,175 |
| Starting Time | 2:17 AM |
| Ending Time | 4:25 AM |
| Pump Time (hr:min) | 02:08 |
| Swap Time (hr:min) | 02:18 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|---|-------|
| Breakdown Pressure (psi) | 6,006 |
| Average Treating Rate (bbl/min) | 82 |
| Average Treating Pressure (psi) | 8,385 |
| Maximum Treating Rate (bbl/min) | 84 |
| Maximum Treating Pressure (psi) | 8,813 |
| Displacement (psi) | 8,721 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 7,059 |
| Final FG (psi/ft) | 1.31 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|---|---------|
| Slickwater (bbls) | 8,511 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 398 |
| Pad (bbls) | 546 |
| Treatment (bbls) | 7,630 |
| Displacement (bbls) | 348 |
| (Acid Included) Total Fluid (bbls) | 8,547 |
| Dirty Job Total (bbls) | 8,966 |
| 100 Mesh | 300,060 |
| 40/70 | 100,560 |
| Total Proppant (lbs) | 400,620 |
| Total Proppant % | 100.2% |

CHEMICALS

| | |
|----------------|-----|
| FR 9800 | 209 |
| DRB-LT | |
| Biocide | 89 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22894
Date: 8/16/2019
Well Name: Boggess 9H
Stage No.: 23

State: WV
County: Monongahela
Operator: Tilton/Kelby
PO/AFE: 100347-604

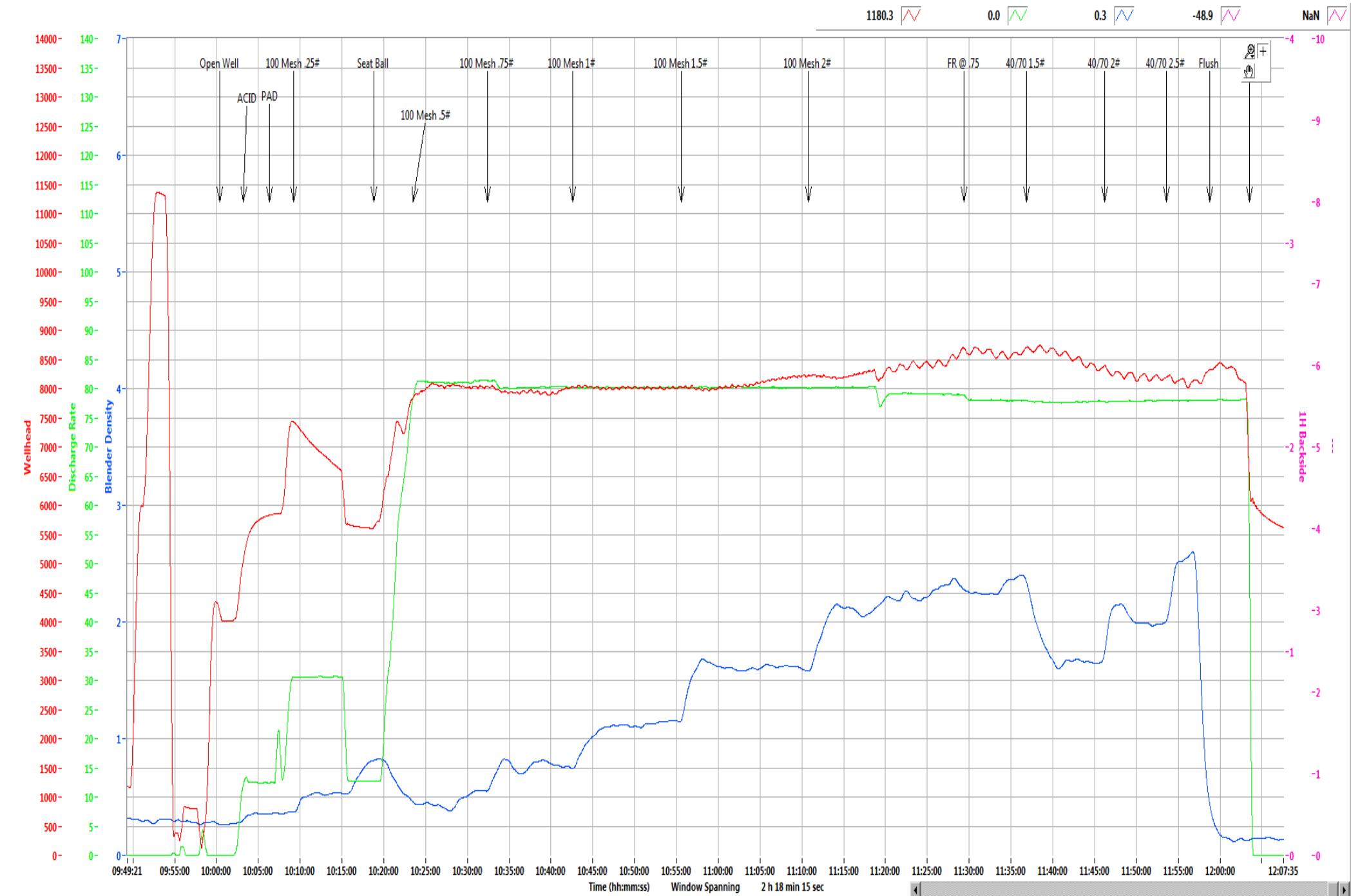
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|--------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,000 | CWT | \$ 5.50 | \$ 16,503.30 |
| SAND 40/70 | 40/70 white | 1,005 | CWT | \$ 5.75 | \$ 5,782.20 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 209 | GAL | \$ 17.75 | \$ 3,709.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 89 | GAL | \$ 16.00 | \$ 1,424.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.31 | TON | \$ 55.00 | \$ 11,017.05 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 60,504.30 | |
| | | | 25% Discount Applied | \$ 15,126.08 | |
| | | | Net Stage Total | \$ 45,378.23 | |

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 24
Producers Service Corp.

Post Stage Report
August 16, 2019



Refresh Graph



Refresh Graph

| Boggess Pad | | 9H |
|--------------------|----------|-----------|
| Stage | 24 | |
| Date: | 8/16/19 | |
| OWP (psi): | 4,026 | |
| Starting Time | 10:00 AM | |
| Ending Time | 12:03 PM | |
| Pump Time (hr:min) | 02:03 | |
| Swap Time (hr:min) | 02:00 | |
| Starting # Pumps | 17 | |
| Finishing # Pumps | 16 | |
| TVD (ft) | 8,030 | |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,738 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,206 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,812 |
| Displacement (psi) | 8,292 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,007 |
| Final FG (psi/ft) | 1.18 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,995 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 378 |
| Pad (bbls) | 109 |
| Treatment (bbls) | 7,576 |
| Displacement (bbls) | 353 |
| (Acid Included)Total Fluid (bbls) | 8,043 |
| Dirty Job Total (bbls) | 8,477 |
| 100 Mesh | 299,720 |
| 40/70 | 100,960 |
| Total Proppant (lbs) | 400,680 |
| Total Proppant % | 100.2% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 188 |
| DRB-LT | |
| Biocide | 102 |
| Scale | 33 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22896
Date: 8/16/2019
Well Name: Boggess 9H
Stage No.: 24

State: WV
County: Monongahela
Operator: Eck/Dunn/Joe
PO/AFE: 100347-604

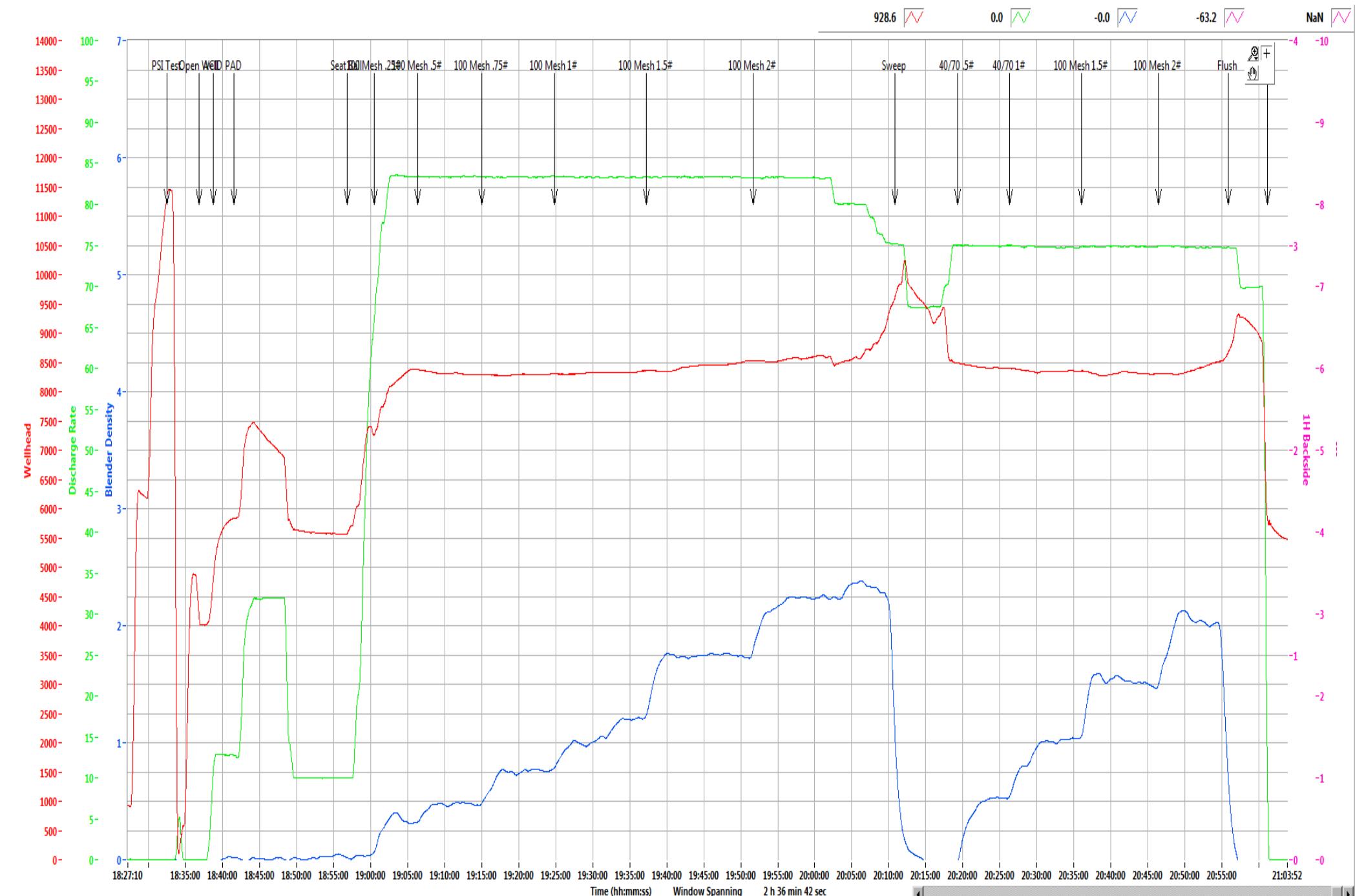
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,997.20 | CWT | \$ 5.50 | \$ 16,484.60 |
| SAND 40/70 | 40/70 white | 1,009.60 | CWT | \$ 5.75 | \$ 5,805.20 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 188 | GAL | \$ 17.75 | \$ 3,337.00 |
| BIOC11219A | Biocide @ 0.25 GPT | 102 | GAL | \$ 16.00 | \$ 1,632.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 33 | GAL | \$ 16.00 | \$ 528.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.34 | TON | \$ 55.00 | \$ 11,018.70 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 61,245.50 | |
| | | | 25% Discount Applied | \$ 15,311.38 | |
| | | | Net Stage Total | \$ 45,934.13 | |

(Print Name) E. Boone Customer Rep: E. Boone Customer Signature: E. Boone

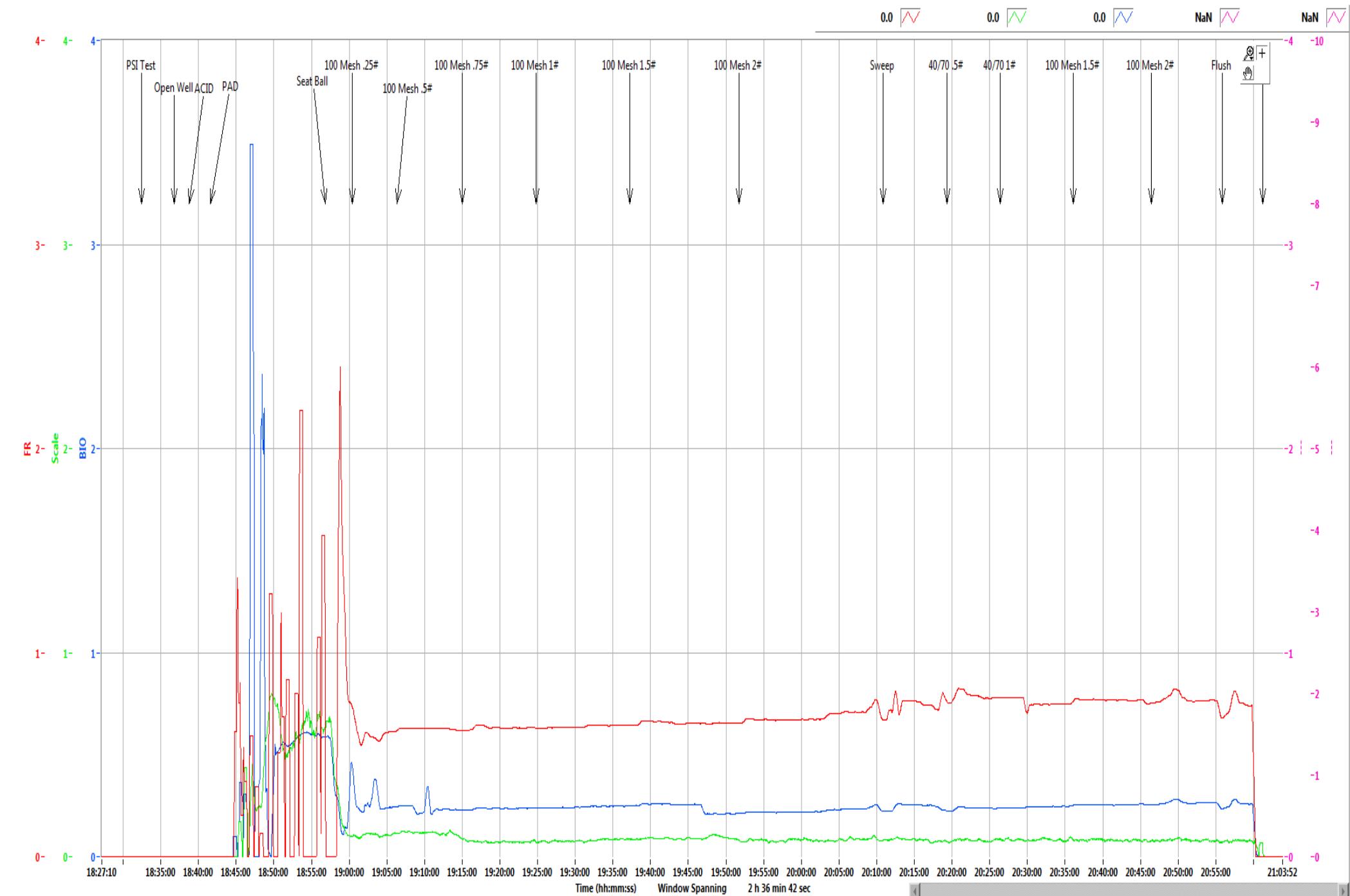


NNE
Boggess 9H
Stage 25
Producers Service Corp.

Post Stage Report
August 16, 2019



Refresh Graph



Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 25 |
| Date: | 8/16/19 |
| OWP (psi): | 4,000 |
| Starting Time | 6:36 PM |
| Ending Time | 9:01 PM |
| Pump Time (hr:min) | 02:25 |
| Swap Time (hr:min) | 02:19 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|--------|
| Breakdown Pressure (psi) | 5,720 |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 8,472 |
| Maximum Treating Rate (bbl/min) | 84 |
| Maximum Treating Pressure (psi) | 10,531 |
| Displacement (psi) | 8,737 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 5,941 |
| Final FG (psi/ft) | 1.17 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 9,503 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 363 |
| Pad (bbls) | 452 |
| Treatment (bbls) | 8,747 |
| Displacement (bbls) | 334 |
| (Acid Included)Total Fluid (bbls) | 9,539 |
| Dirty Job Total (bbls) | 9,941 |
| 100 Mesh | 275,060 |
| 40/70 | 126,680 |
| Total Proppant (lbs) | 401,740 |
| Total Proppant % | 100.4% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 254 |
| DRB-LT | |
| Biocide | 100 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22898 |
| Date: | 8/16/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 25 |

| | |
|-----------|--------------|
| State: | WV |
| County: | Monongahela |
| Operator: | Tilton/Kelby |
| PO/AFE: | 100347-604 |

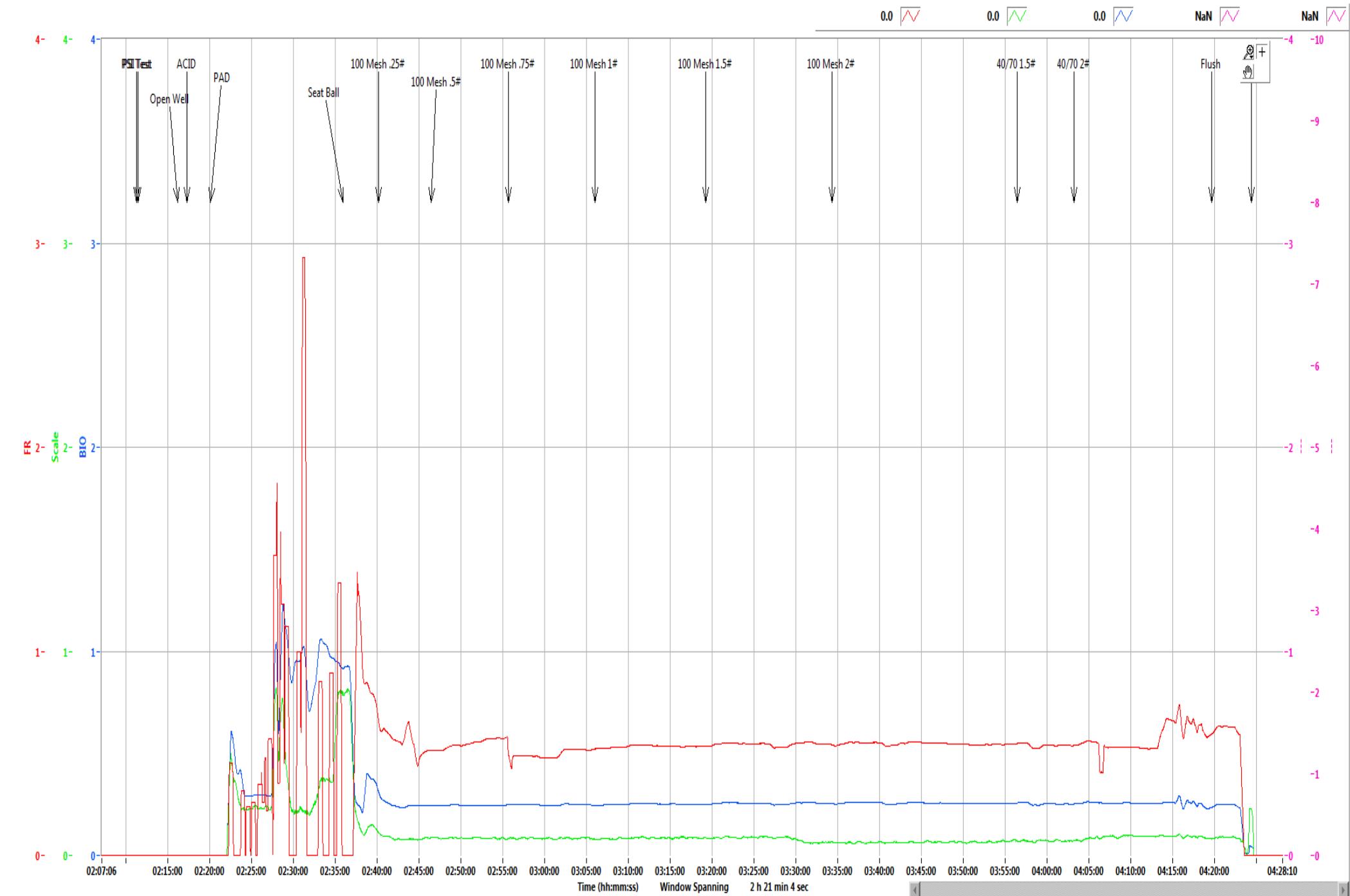
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,750.60 | CWT | \$ 5.50 | \$ 15,128.30 |
| SAND 40/70 | 40/70 white | 1,266.80 | CWT | \$ 5.75 | \$ 7,284.10 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 254 | GAL | \$ 17.75 | \$ 4,508.50 |
| BIOC11219A | Biocide @ 0.25 GPT | 100 | GAL | \$ 16.00 | \$ 1,600.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 20 | GAL | \$ 16.00 | \$ 320.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.87 | TON | \$ 55.00 | \$ 11,047.85 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 61,668.75 | |
| | | | 25% Discount Applied | \$ 15,417.19 | |
| | | | Net Stage Total | \$ 46,251.56 | |

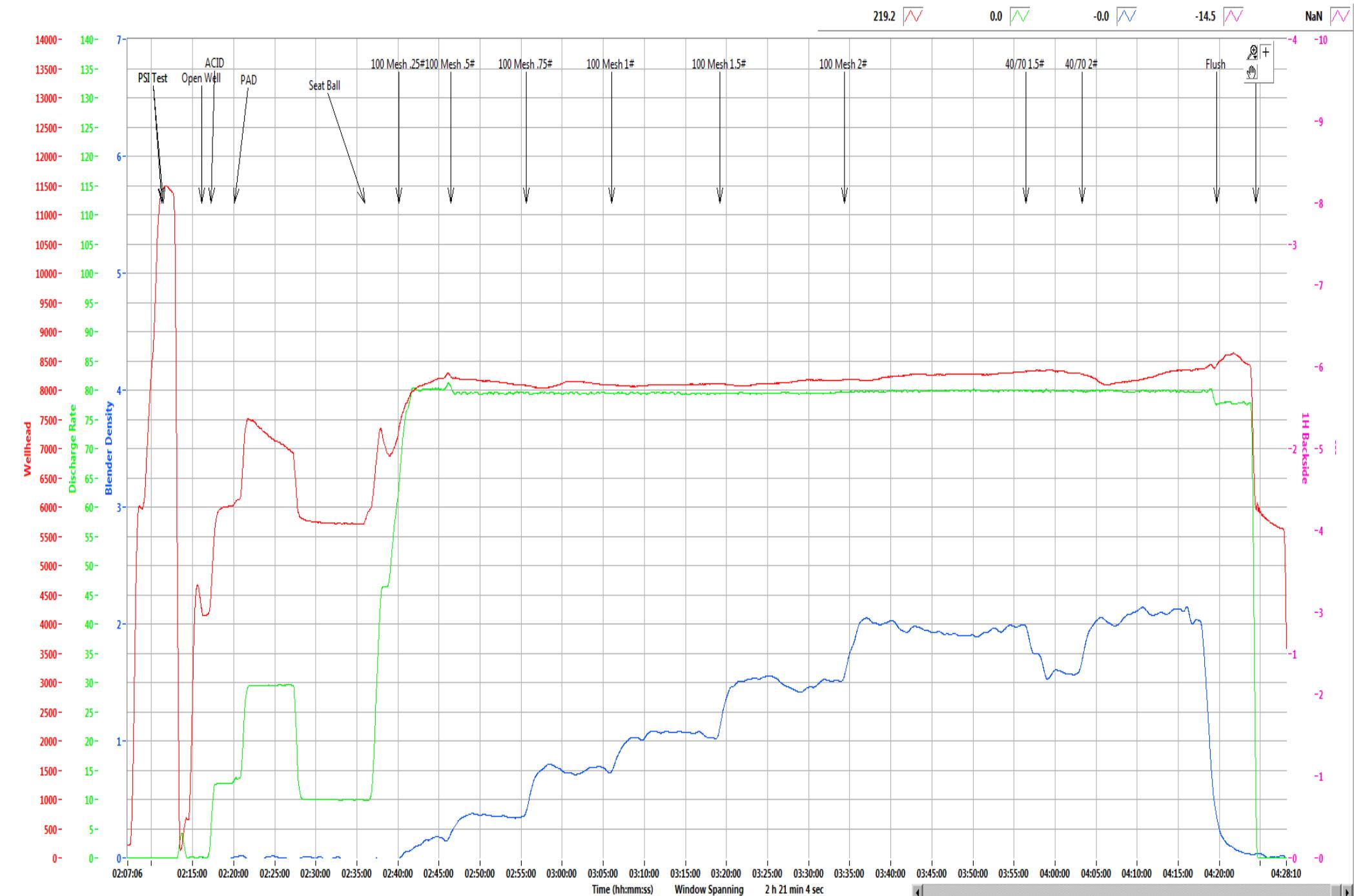
(Print Name) KO
Customer Rep:



NNE
Boggess 9H
Stage 26
Producers Service Corp.

Post Stage Report
August 17, 2019





Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 26 |
| Date: | 8/17/19 |
| OWP (psi): | 4,156 |
| Starting Time | 2:16 AM |
| Ending Time | 4:24 AM |
| Pump Time (hr:min) | 02:08 |
| Swap Time (hr:min) | 01:50 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,950 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,177 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,402 |
| Displacement (psi) | 8,444 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 6,410 |
| Final FG (psi/ft) | 1.23 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,719 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 346 |
| Pad (bbls) | 491 |
| Treatment (bbls) | 7,523 |
| Displacement (bbls) | 338 |
| (Acid Included)Total Fluid (bbls) | 8,755 |
| Dirty Job Total (bbls) | 8,356 |
| 100 Mesh | 299,520 |
| 40/70 | 100,020 |
| Total Proppant (lbs) | 399,540 |
| Total Proppant % | 99.9% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 180 |
| DRB-LT | |
| Biocide | 87 |
| Scale | 17 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22900 |
| Date: | 8/17/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 26 |

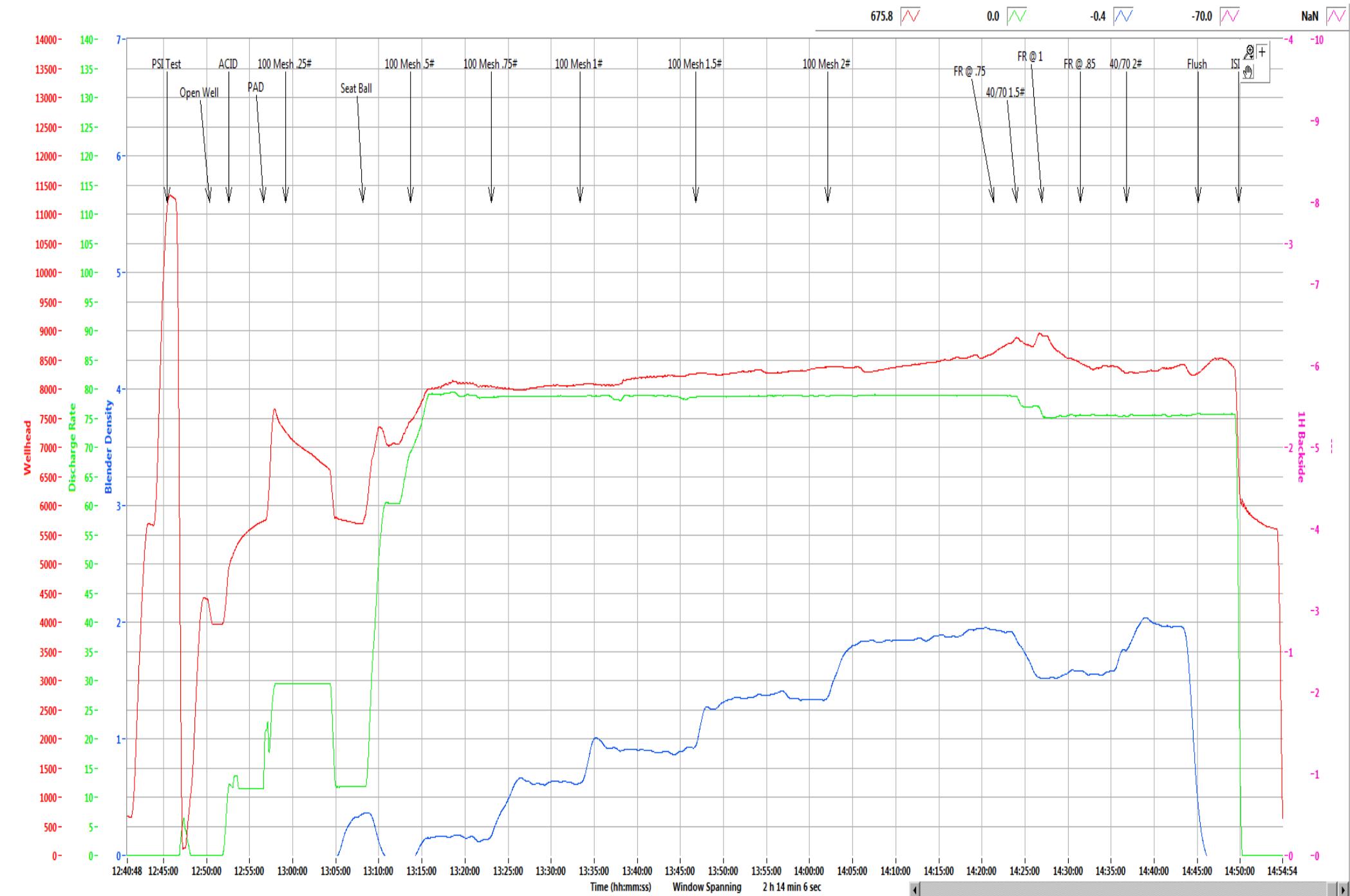
State: WV
County: Monongahela
Operator: Tilton/Kelby
PO/AFE: 100347-604

(Print Name)
Customer Re

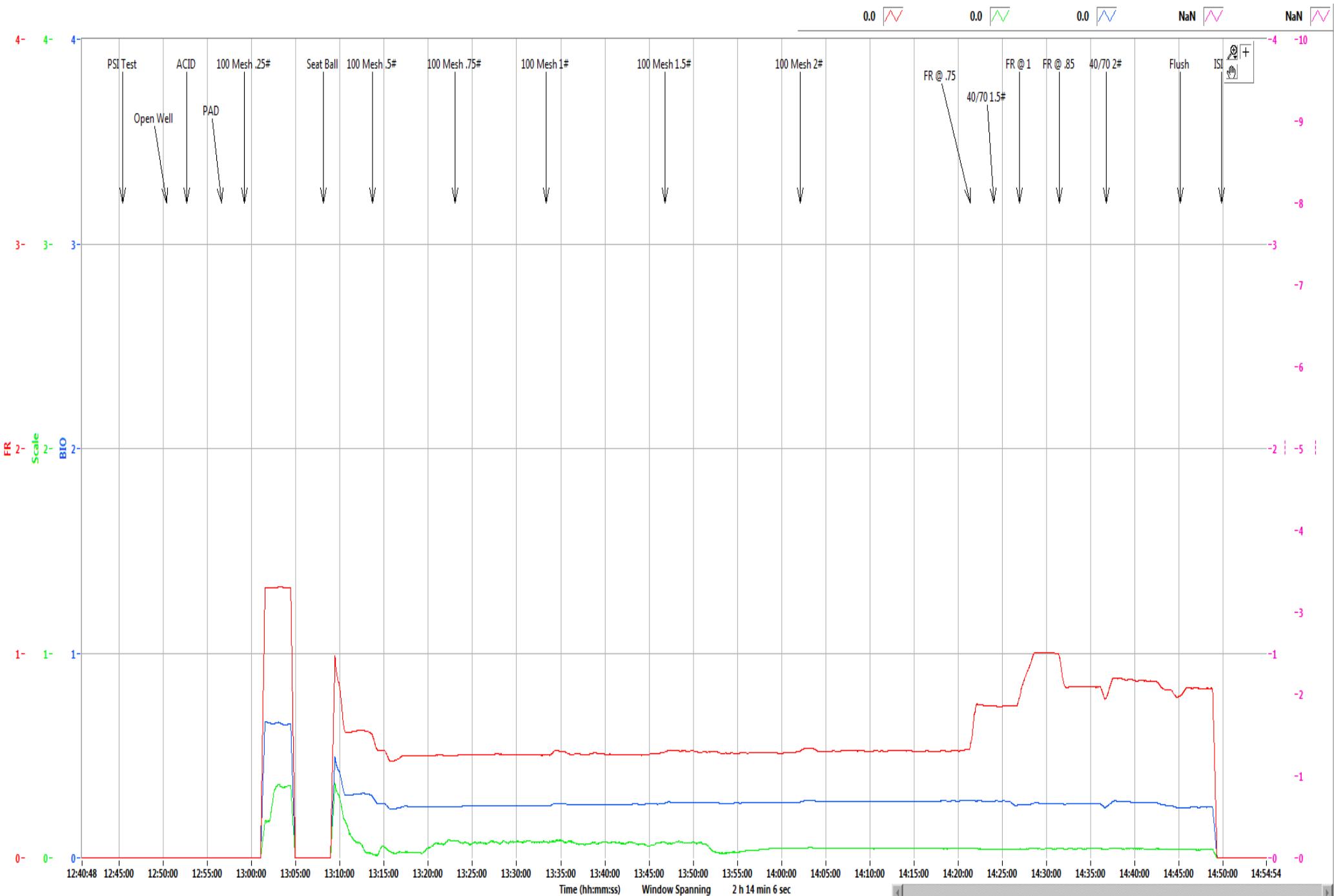


NNE
Boggess 9H
Stage 27
Producers Service Corp.

Post Stage Report
August 17, 2019



Refresh Graph



[Refresh Graph](#)

| Boggess Pad | 9H |
|--------------------|----------|
| Stage | 27 |
| Date: | 8/17/19 |
| OWP (psi): | 3,970 |
| Starting Time | 12:50 PM |
| Ending Time | 2:49 PM |
| Pump Time (hr:min) | 01:59 |
| Swap Time (hr:min) | 05:18 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,939 |
| Average Treating Rate (bbl/min) | 78 |
| Average Treating Pressure (psi) | 8,310 |
| Maximum Treating Rate (bbl/min) | 80 |
| Maximum Treating Pressure (psi) | 9,035 |
| Displacement (psi) | 8,291 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 6,585 |
| Final FG (psi/ft) | 1.25 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,598 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 317 |
| Pad (bbls) | 68 |
| Treatment (bbls) | 7,238 |
| Displacement (bbls) | 334 |
| (Acid Included)Total Fluid (bbls) | 7,646 |
| Dirty Job Total (bbls) | 8,081 |
| 100 Mesh | 301,280 |
| 40/70 | 98,880 |
| Total Proppant (lbs) | 400,160 |
| Total Proppant % | 100.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 195 |
| DRB-LT | |
| Biocide | 85 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|-----------|
| Invoice #: | 22902 |
| Date: | 8/17/2019 |
| Well Name: | Bogess 9H |
| Stage No.: | 27 |

| | |
|-----------|-------------|
| State: | WV |
| County: | Monongahela |
| Operator: | Joe/Austin |
| PO/AFE: | 100347-604 |

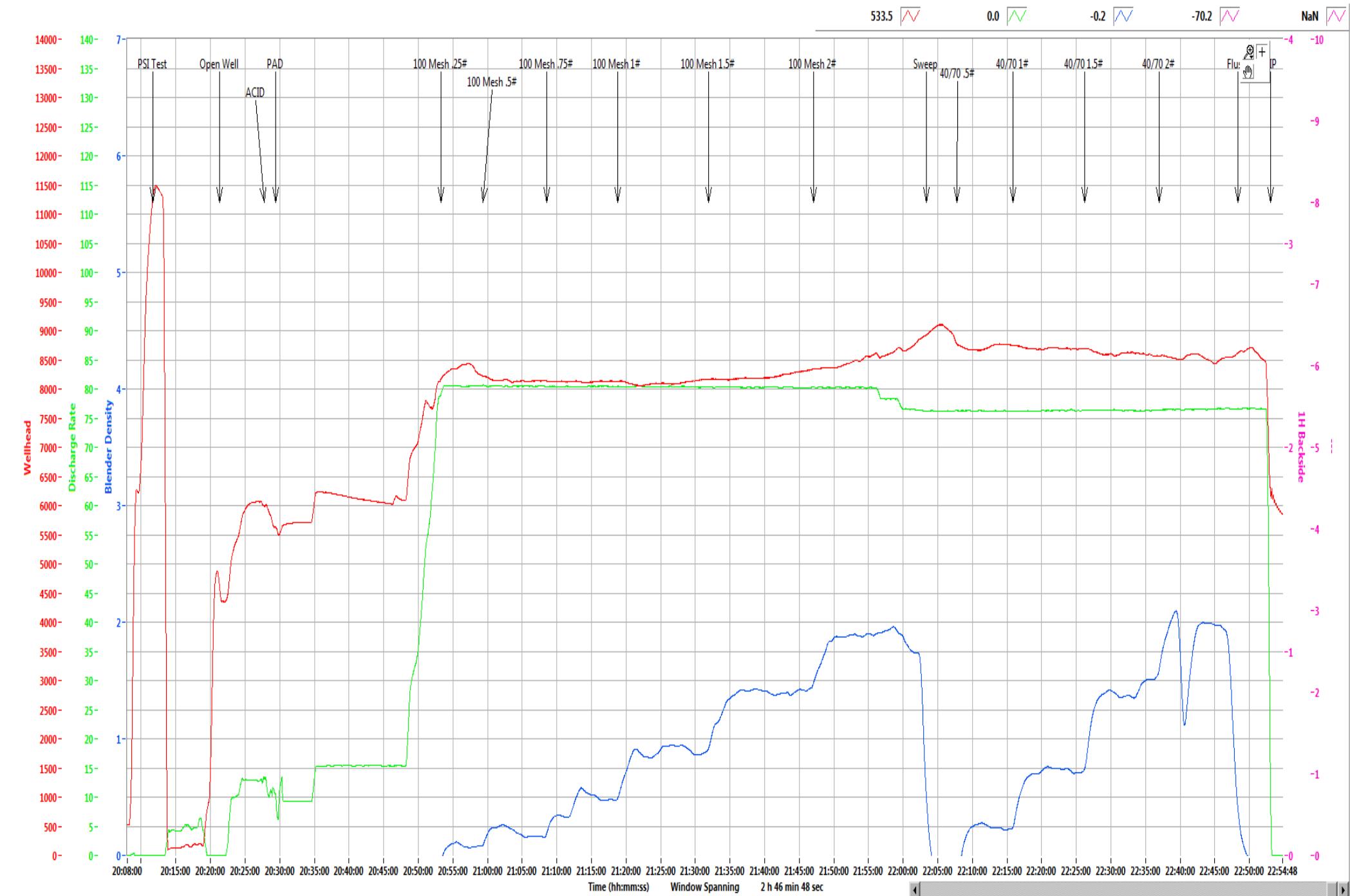
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|----------------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,012.80 | CWT | \$ 5.50 | \$ 16,570.40 |
| SAND 40/70 | 40/70 white | 988.80 | CWT | \$ 5.75 | \$ 5,685.60 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 195 | GAL | \$ 17.75 | \$ 3,461.25 |
| BIOC11219A | Biocide @ 0.25 GPT | 85 | GAL | \$ 16.00 | \$ 1,360.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 19 | GAL | \$ 16.00 | \$ 304.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.08 | TON | \$ 55.00 | \$ 11,004.40 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | | Total No Discount | \$ 60,825.65 |
| | | | | 25% Discount Applied | \$ 15,206.41 |
| | | | | Net Stage Total | \$ 45,619.24 |

(Print Name)
Customer Rep

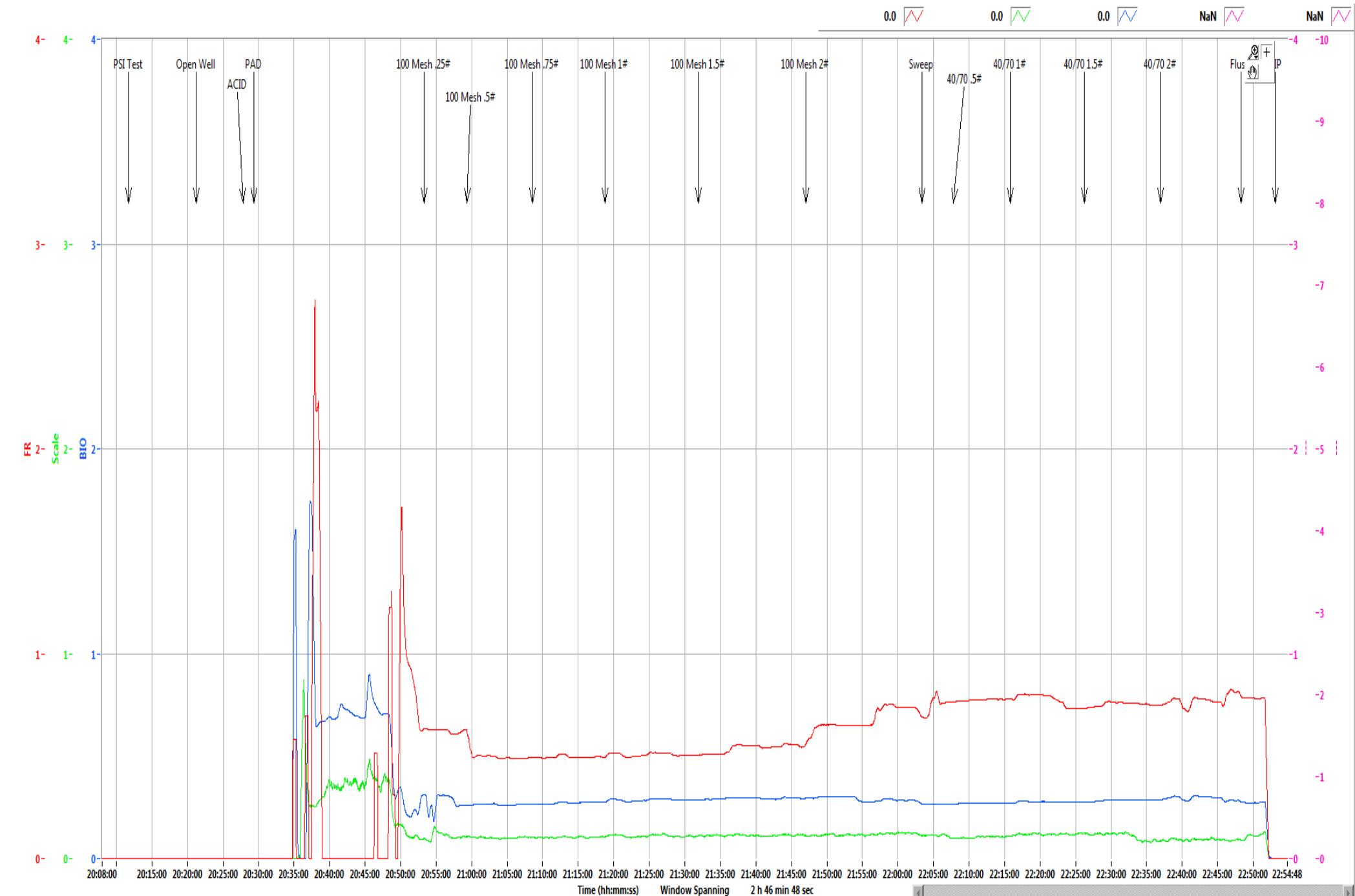


NNE
Boggess 9H
Stage 28
Producers Service Corp.

Post Stage Report
August 17, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 28 |
| Date: | 8/17/19 |
| OWP (psi): | 437 |
| Starting Time | 8:21 PM |
| Ending Time | 10:53 PM |
| Pump Time (hr:min) | 02:32 |
| Swap Time (hr:min) | 01:38 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,254 |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 8,420 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 9,149 |
| Displacement (psi) | 8,614 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 6,678 |
| Final FG (psi/ft) | 1.26 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|------------------------------------|---------|
| Slickwater (bbls) | 9,682 |
| Acid 7.5% HCL (gal) | 700 |
| Wireline Pump Down (bbls) | 307 |
| Pad (bbls) | 594 |
| Treatment (bbls) | 8,579 |
| Displacement (bbls) | 327 |
| (Acid Included) Total Fluid (bbls) | 9,699 |
| Dirty Job Total (bbls) | 9,505 |
| 100 Mesh | 264,680 |
| 40/70 | 140,040 |
| Total Proppant (lbs) | 404,720 |
| Total Proppant % | 101.2% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 263 |
| DRB-LT | |
| Biocide | 100 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22904 |
| Date: | 8/19/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 28 |

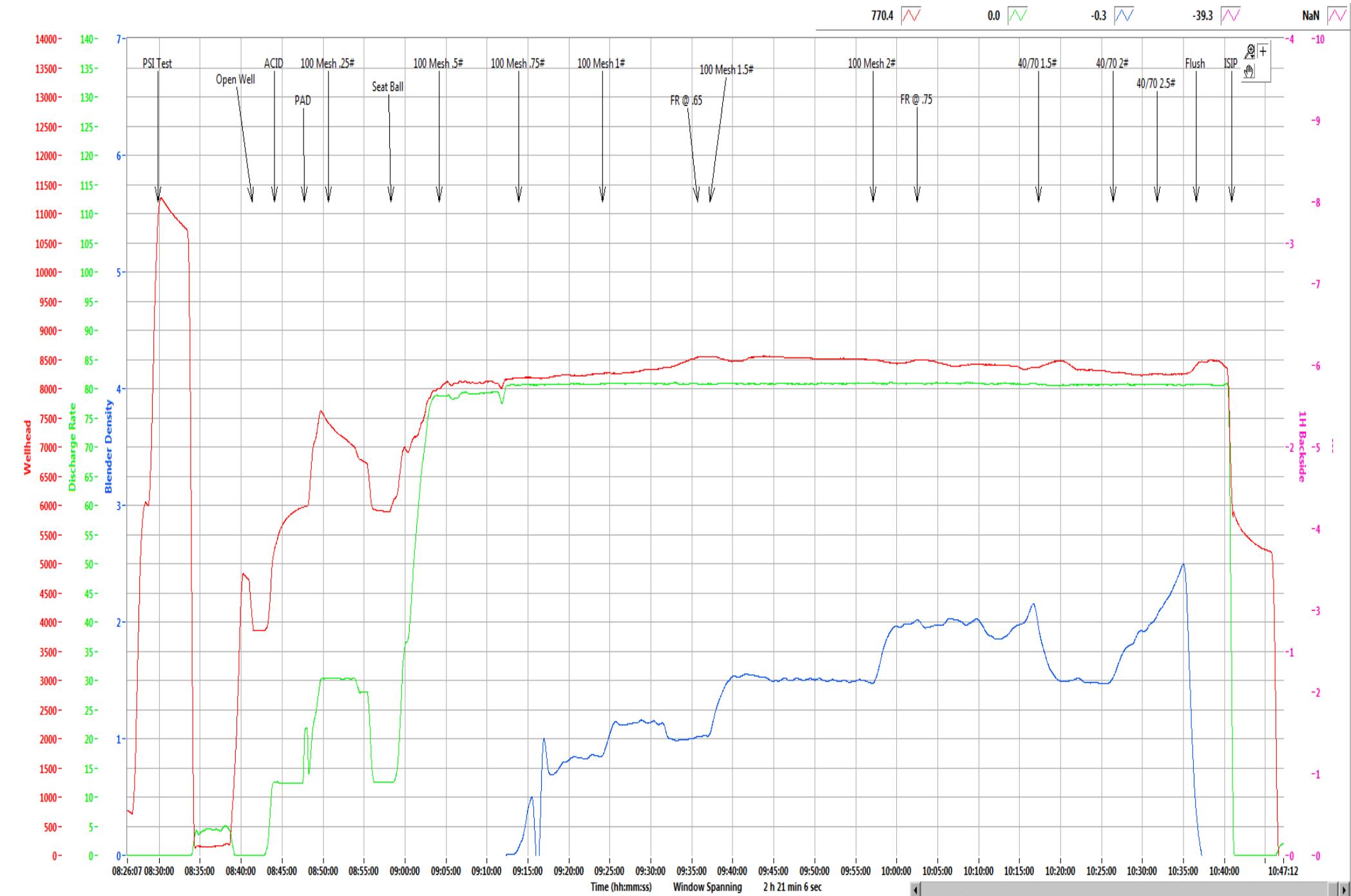
State: WV
County: Monongahela
Operator: Tilton/Kelby
PO/AFE: 100347-604

(Print Name)
Customer Re

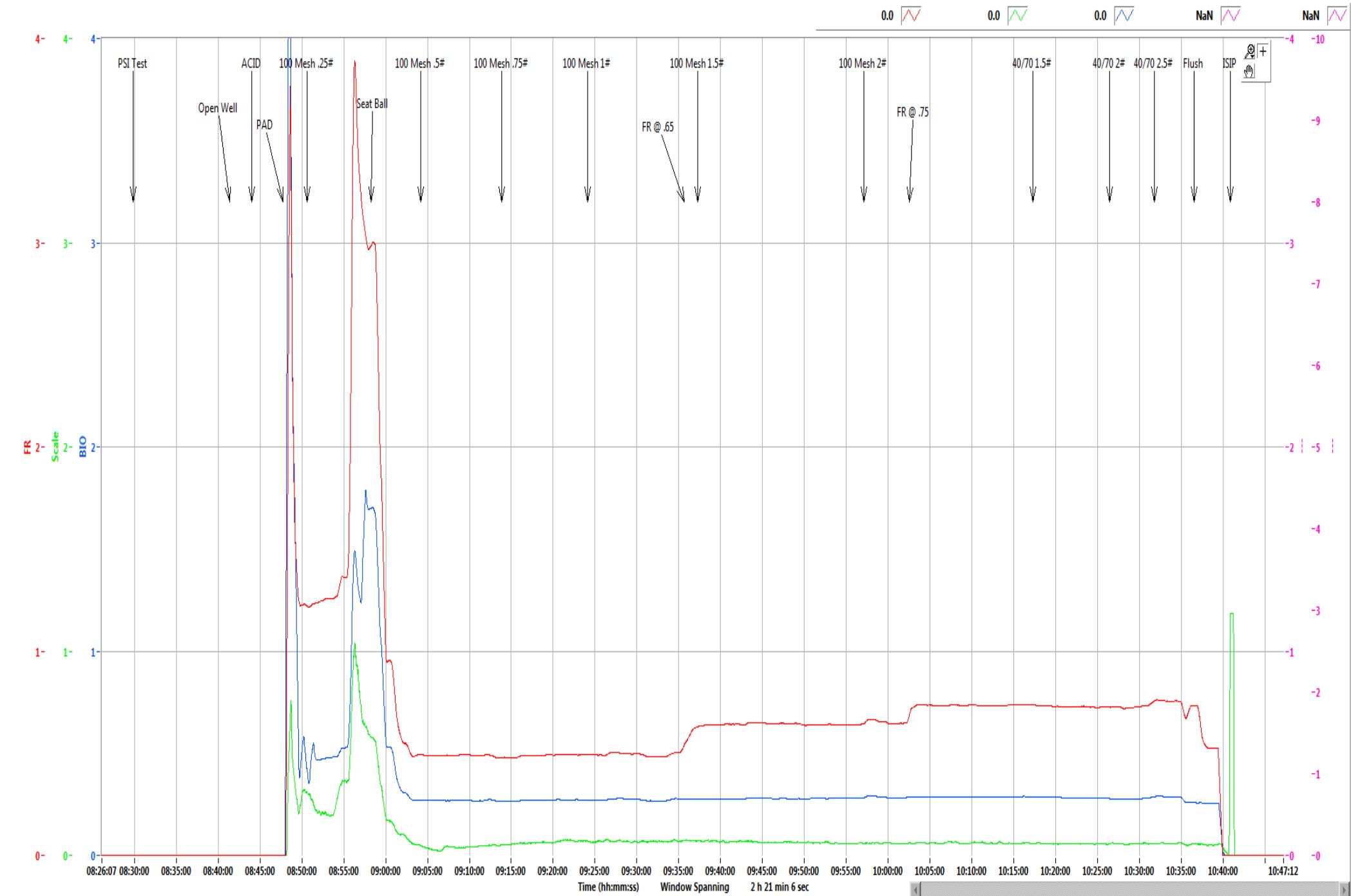


NNE
Boggess 9H
Stage 29
Producers Service Corp.

Post Stage Report
August 18, 2019



Refresh Graph



Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 29 |
| Date: | 8/18/19 |
| OWP (psi): | 3,860 |
| Starting Time | 8:41 AM |
| Ending Time | 10:40 AM |
| Pump Time (hr:min) | 01:59 |
| Swap Time (hr:min) | 06:01 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,236 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 8,351 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,609 |
| Displacement (psi) | 8,457 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,862 |
| Final FG (psi/ft) | 1.16 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,889 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 313 |
| Pad (bbls) | 131 |
| Treatment (bbls) | 7,476 |
| Displacement (bbls) | 324 |
| (Acid Included)Total Fluid (bbls) | 7,937 |
| Dirty Job Total (bbls) | 8,397 |
| 100 Mesh | 300,340 |
| 40/70 | 98,280 |
| Total Proppant (lbs) | 398,620 |
| Total Proppant % | 99.7% |

CHEMICALS

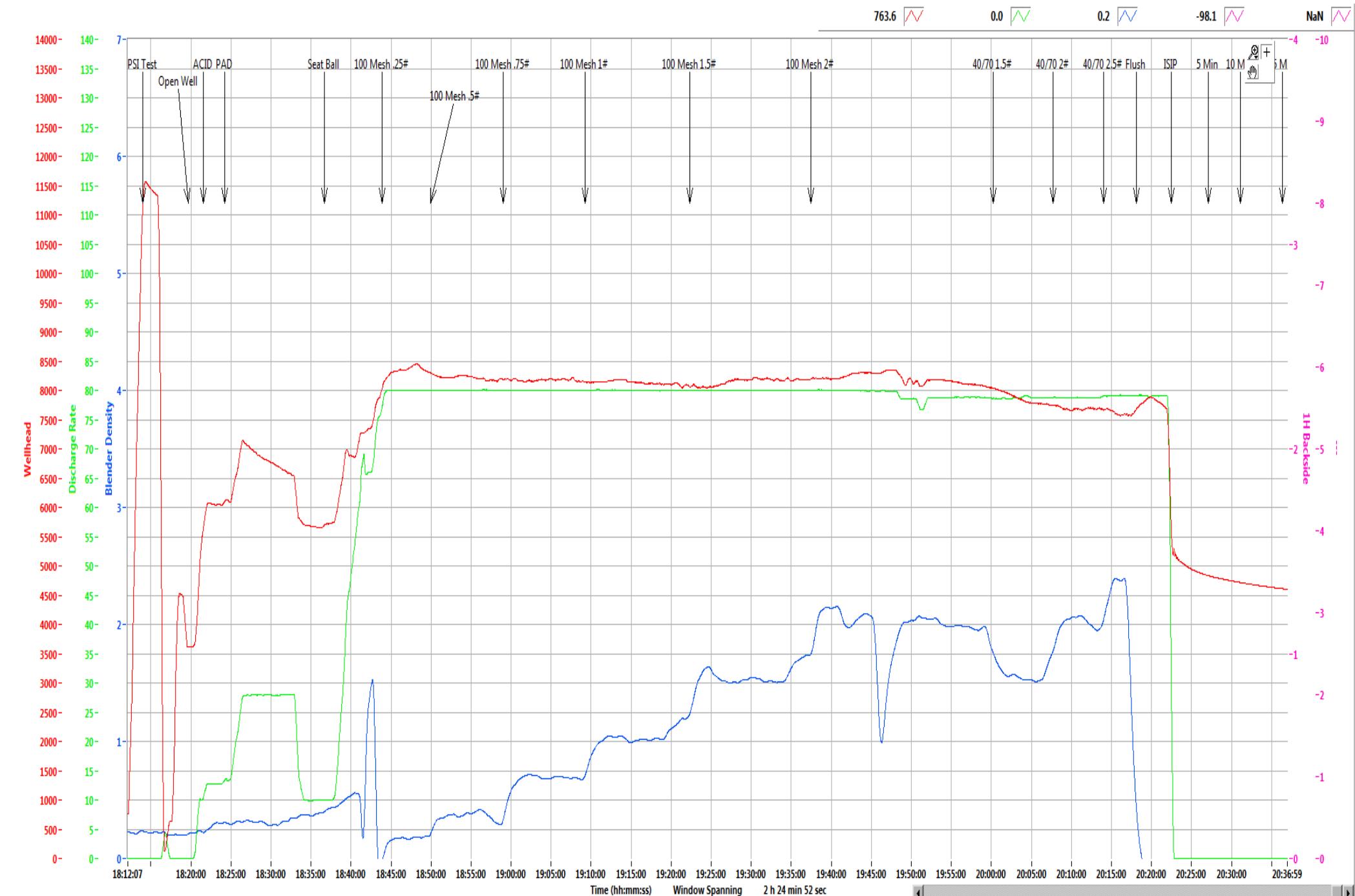
| | |
|---------|-----|
| FR 9800 | 214 |
| DRB-LT | |
| Biocide | 90 |
| Scale | 20 |

| Invoice #: | Date: | Customer Name: | Address: | City: | State: | Zip: |
|--|-----------------------------------|------------------------------|-------------|--------------|---------------------------|----------------------------|
| 22906 | 8/18/2019 | Boggess GH | | Monongahela | WV | 26001 |
| Products Service Corp. | 109 S. Graham St. | County: | Joe/Brad | P/O/AEE: | 29 | Stade No.: |
| Morgantown, WV 26001 | Zanesville, OH 43701 | Operator: | Monongahela | 100347-604 | | Stage No.: |
| NorthEast Natural Energy | 48 Doneley Street, Ste 601 | Notes: | Amount | Units of | Unit Cost | Total Cost |
| FLUID PUMP CHARGE OVER 3000 PSI PER HHF PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 | BLENDER CHARGE 80 BPM |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 2,500.00 | \$ 2,500.00 | HC ACID 7.5% |
| BLENDER CHARGE 80 BPM | Ton Control Acid | 2000 | GAL | \$ 1,000.00 | \$ 2,500.00 | 4N1 INHIBITOR |
| ACID DELIVERY | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 | SHIMSTREAM FR 9800 |
| SAND 80/100 | 40/70 white | 982.80 | CWT | \$ 5.50 | \$ 16,518.70 | FRiction Reducer @ 0.5 GPT |
| SAND 40/70 | 80/100 white | 3,003.40 | CWT | \$ 5.50 | \$ 16,518.70 | SCAL 16846A |
| SAND 40/70 | 40/70 white | 982.80 | CWT | \$ 5.50 | \$ 16,518.70 | Scale Control @ 0.05 GPT |
| HIGH PRESSURE MANIFOLD | 1 STAGE | \$ 1,500.00 | \$ 1,500.00 | 200.00 | N2 PRESSURE RELIEF VALVE | |
| HIGH PRESSURE DENSIMETER | 1 STAGE | \$ 400.00 | \$ 400.00 | 400.00 | HIGH PRESSURE DENSIMETER | |
| COMMAND CENTER | 0 STAGE | \$ 1,500.00 | \$ 1,500.00 | 400.00 | PUMP DOWN FOR PERFORATING | |
| PUMP DOWM FOR PERFORATING | 0 STAGE | \$ 1,500.00 | \$ 1,500.00 | 400.00 | ARROWS UP SYSTEM | |
| ARROWS UP SYSTEM | 199.31 TON | \$ 55.00 | \$ 55.00 | 10,962.05 | | |
| DIESEL FUEL | Not eligible for discount | GAL | \$ 3.04 | \$ | | |
| Total No Discount \$ 61,130.35 | 25% Discount Applied \$ 15,282.59 | Net Stage Total \$ 45,847.76 | | | | |
| Customer Signature: <i>B. S. Sauer</i> | | | | | | |
| (Print Name) Customer Rep: | | | | | | |

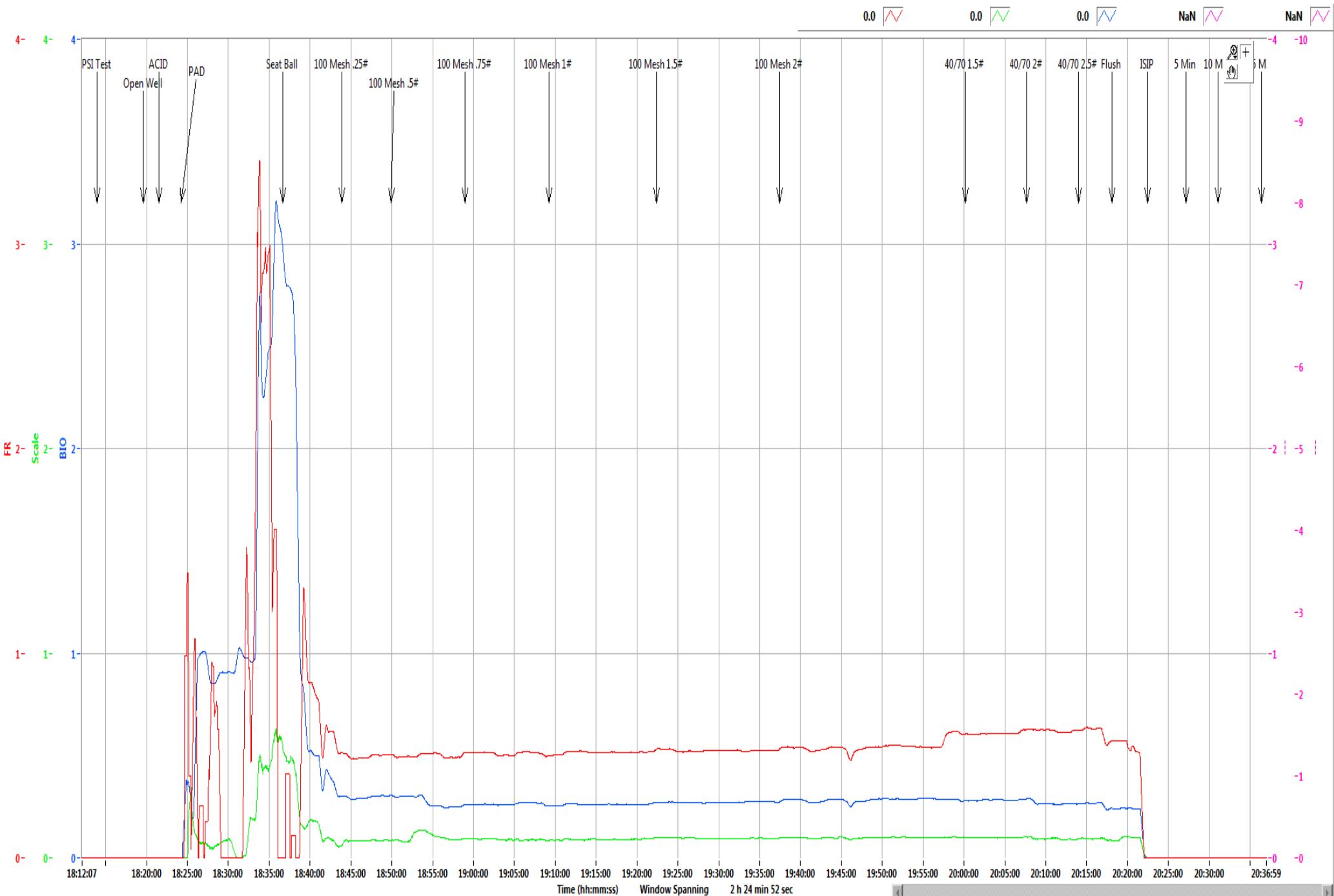


NNE
Boggess 9H
Stage 30
Producers Service Corp.

Post Stage Report
August 18, 2019



Refresh Graph



[Refresh Graph](#)

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 30 |
| Date: | 8/18/19 |
| OWP (psi): | 3,620 |
| Starting Time | 6:19 PM |
| Ending Time | 8:22 PM |
| Pump Time (hr:min) | 02:03 |
| Swap Time (hr:min) | 03:03 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,742 |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 8,102 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,477 |
| Displacement (psi) | 7,741 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,873 |
| Final FG (psi/ft) | 1.16 |
| 5 Minute Leakoff Pressure (psi) | 4,823 |
| 5 Minute Leakoff Rate (psi/min) | 210 |
| 10 Minute Leakoff Pressure (psi) | 4,710 |
| 10 Minute Leakoff Rate (psi/min) | 116 |
| 15 Minute Leakoff Pressure (psi) | 4,608 |
| 15 Minute Leakoff Rate (psi/min) | 84 |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,042 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 291 |
| Pad (bbls) | 647 |
| Treatment (bbls) | 7,110 |
| Displacement (bbls) | 317 |
| (Acid Included)Total Fluid (bbls) | 8,078 |
| Dirty Job Total (bbls) | 8,476 |
| 100 Mesh | 300,220 |
| 40/70 | 100,040 |
| Total Proppant (lbs) | 400,260 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 169 |
| DRB-LT | |
| Biocide | 84 |
| Scale | 17 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22908
Date: 8/18/2019
Well Name: Boggess 9H
Stage No.: 30

State: WV
County: Monongahela
Operator: Kelby/Tilton
PO/AFE: 100347-604

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 31
Producers Service Corp.

Post Stage Report
August 19, 2019

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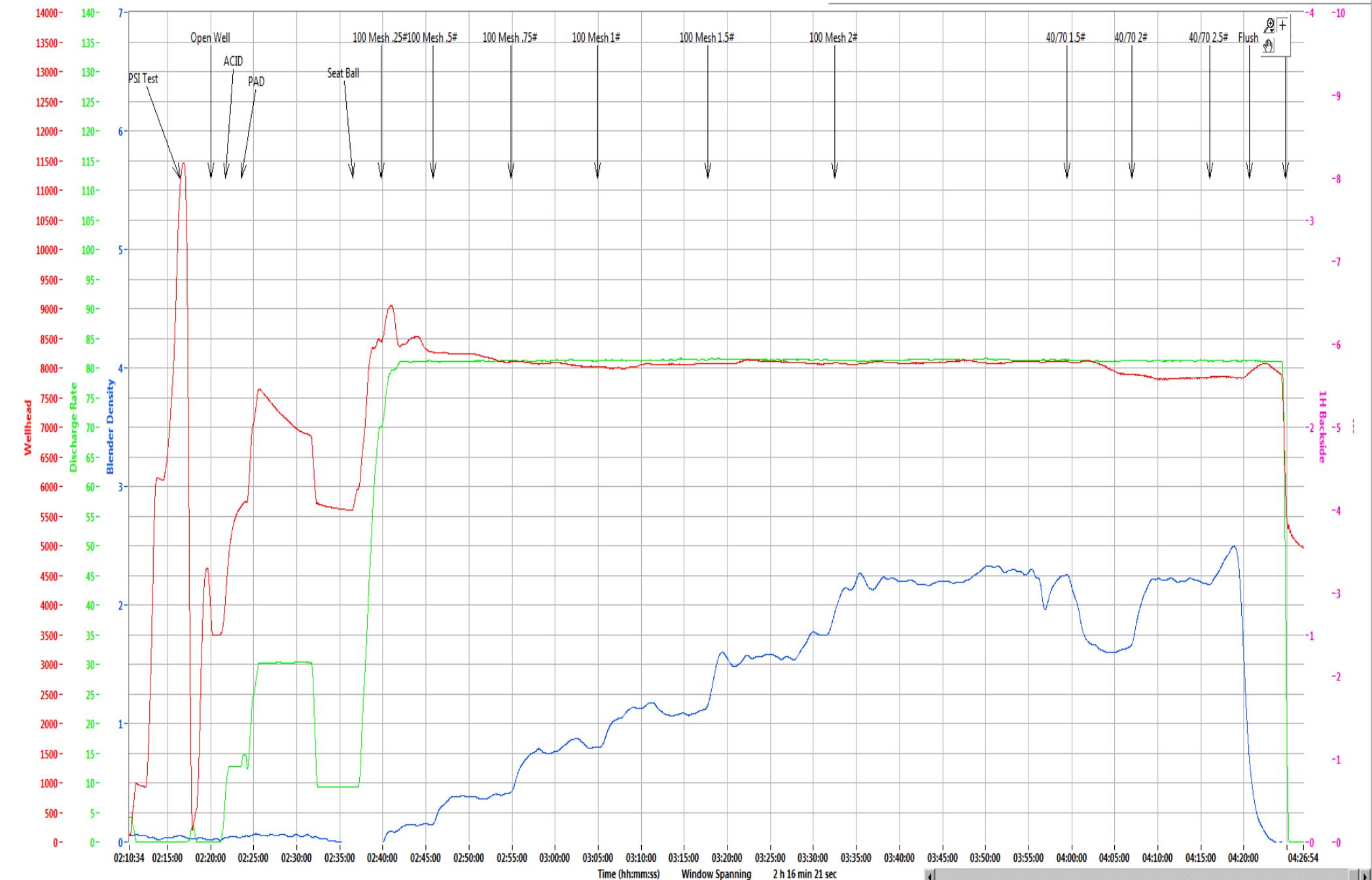
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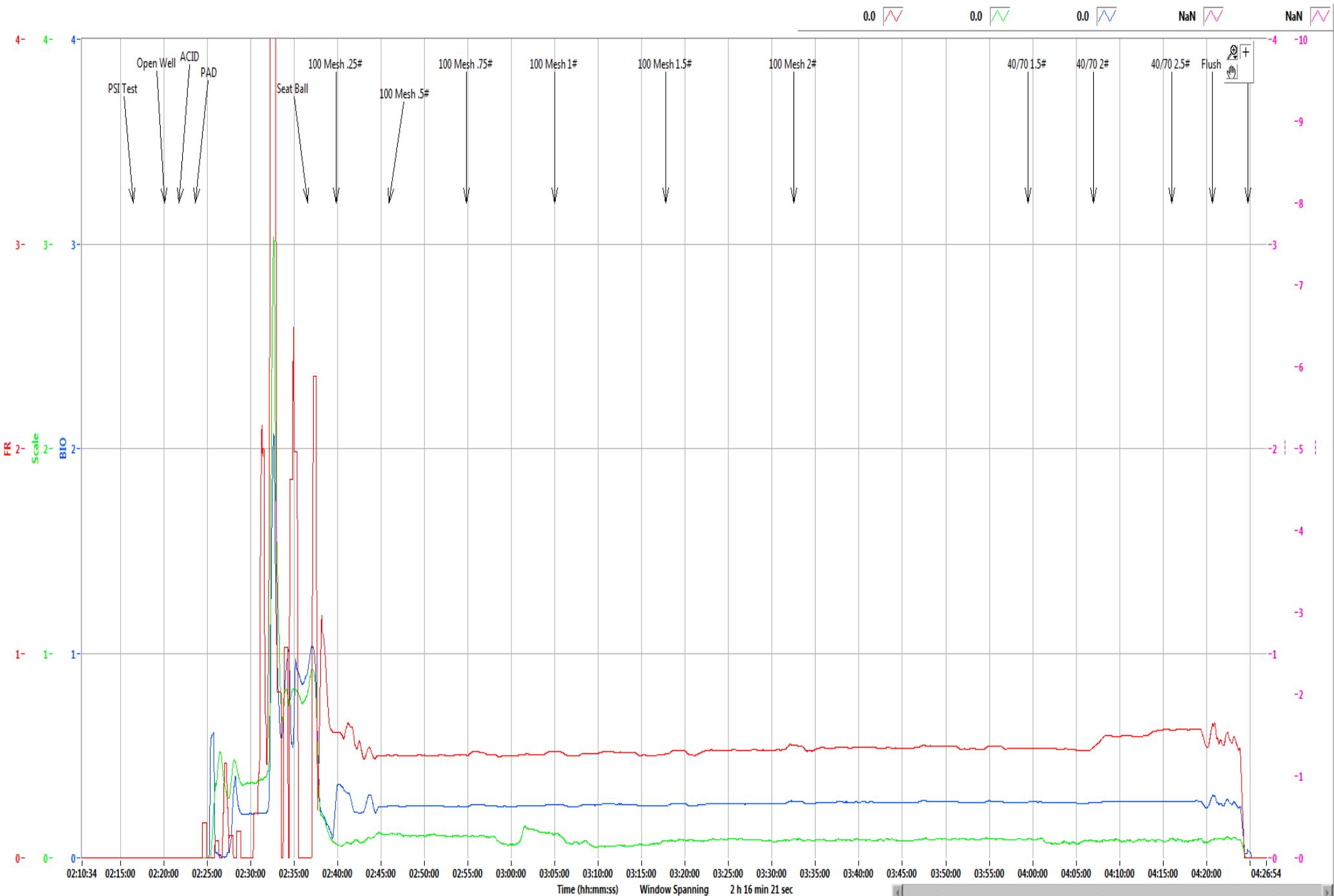
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Refresh Graph



[Refresh Graph](#)

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 31 |
| Date: | 8/19/19 |
| OWP (psi): | 3,485 |
| Starting Time | 2:20 AM |
| Ending Time | 4:24 AM |
| Pump Time (hr:min) | 02:04 |
| Swap Time (hr:min) | 03:08 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,983 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 8,077 |
| Maximum Treating Rate (bbl/min) | 83 |
| Maximum Treating Pressure (psi) | 9,101 |
| Displacement (psi) | 7,968 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,954 |
| Final FG (psi/ft) | 1.17 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,495 |
| Acid 7.5% HCL (gal) | 1,000 |
| Wireline Pump Down (bbls) | 617 |
| Pad (bbls) | 440 |
| Treatment (bbls) | 7,760 |
| Displacement (bbls) | 316 |
| (Acid Included)Total Fluid (bbls) | 8,519 |
| Dirty Job Total (bbls) | 8,950 |
| 100 Mesh | 300,580 |
| 40/70 | 99,880 |
| Total Proppant (lbs) | 400,460 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 214 |
| DRB-LT | |
| Biocide | 89 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22910
Date: 8/19/2019
Well Name: Boggess 9H
Stage No.: 31

| | |
|-----------|--------------|
| State: | WV |
| County: | Monongahela |
| Operator: | Kelby/Tilton |
| PO/AFE: | 100347-604 |

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1000 | GAL | \$ 1.25 | \$ 1,250.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 2 | GAL | \$ 35.00 | \$ 70.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,005.80 | CWT | \$ 5.50 | \$ 16,531.90 |
| SAND 40/70 | 40/70 white | 998.80 | CWT | \$ 5.75 | \$ 5,743.10 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 214 | GAL | \$ 17.75 | \$ 3,798.50 |
| BIOC11219A | Biocide @ 0.25 GPT | 89 | GAL | \$ 16.00 | \$ 1,424.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.23 | TON | \$ 55.00 | \$ 11,012.65 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 59,918.15 | |
| | | | 25% Discount Applied | \$ 14,979.54 | |
| | | | Net Stage Total | \$ 44,938.61 | |

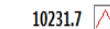
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**NNE
Boggess 9H
Stage 32
Producers Service Corp.**

**Post Stage Report
August 19, 2019**

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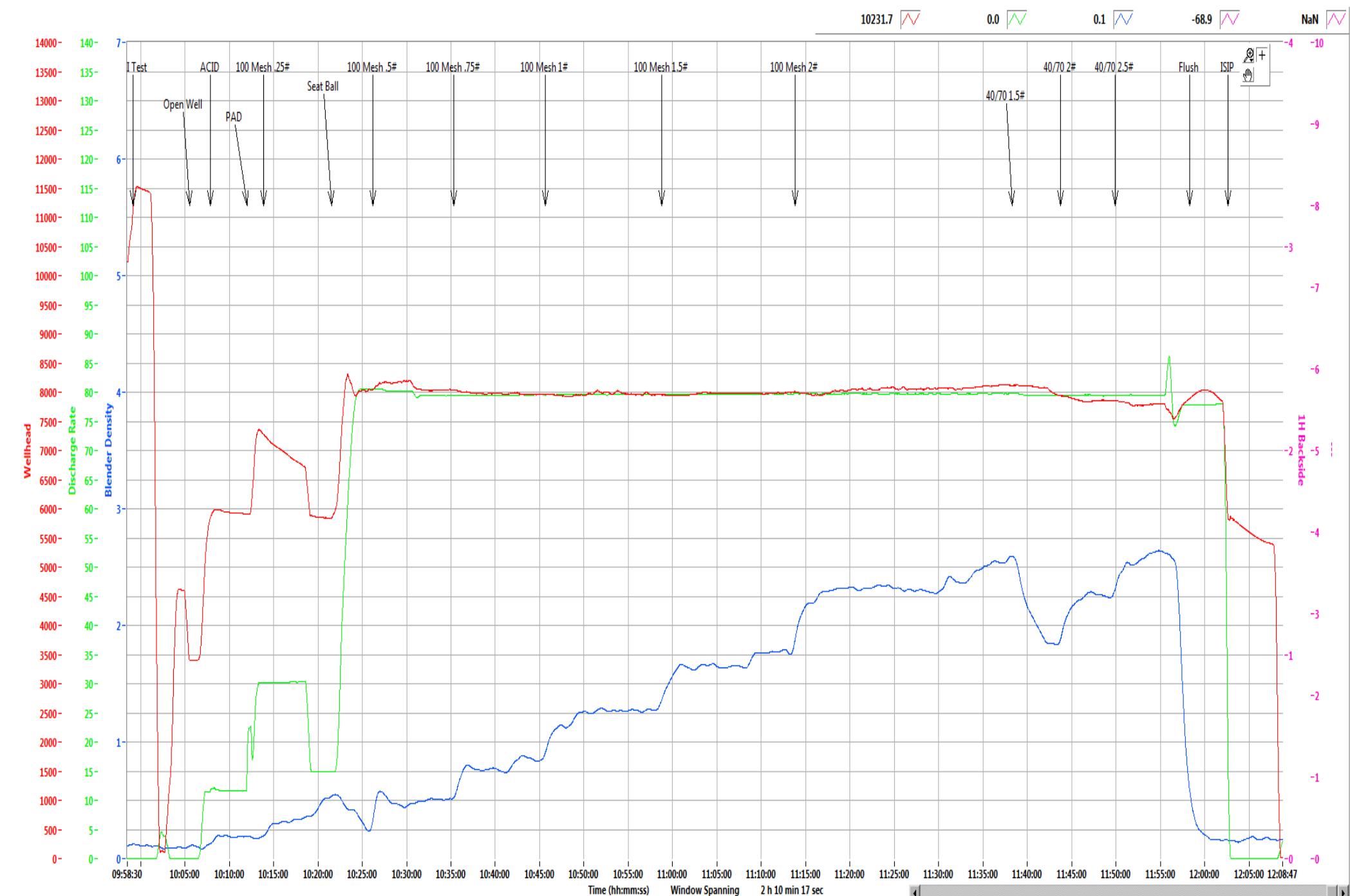
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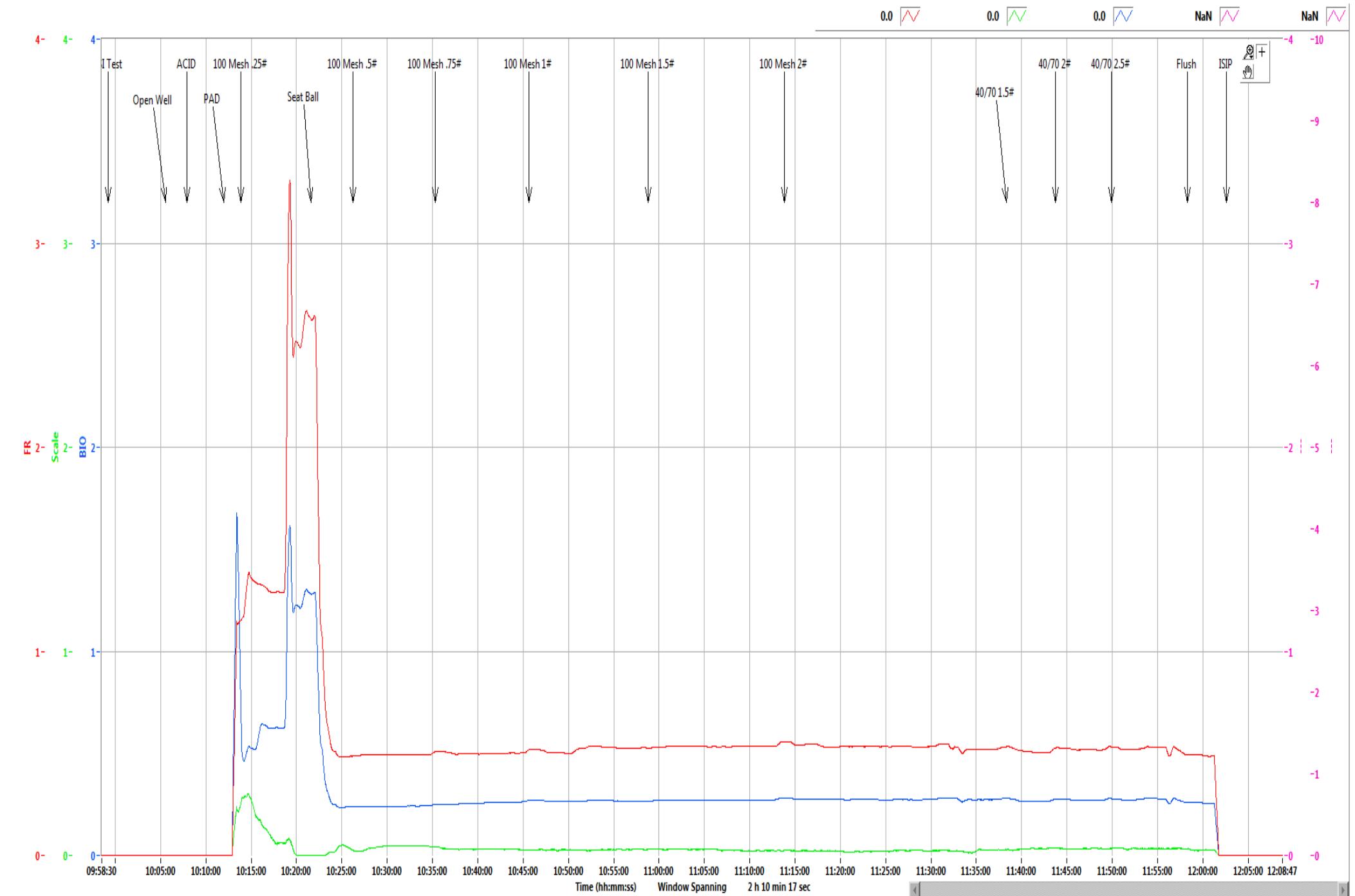
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-2

-1

-0





Refresh Graph

Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 32 |
| Date: | 8/19/19 |
| OWP (psi): | 3,402 |
| Starting Time | 10:05 AM |
| Ending Time | 12:02 PM |
| Pump Time (hr:min) | 01:57 |
| Swap Time (hr:min) | 01:56 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,997 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,986 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,419 |
| Displacement (psi) | 7,931 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,710 |
| Final FG (psi/ft) | 1.14 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,770 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 290 |
| Pad (bbls) | 50 |
| Treatment (bbls) | 7,457 |
| Displacement (bbls) | 307 |
| (Acid Included)Total Fluid (bbls) | 7,818 |
| Dirty Job Total (bbls) | 8,233 |
| 100 Mesh | 300,560 |
| 40/70 | 100,000 |
| Total Proppant (lbs) | 400,560 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 195 |
| DRB-LT | |
| Biocide | 87 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22912 |
| Date: | 8/19/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 32 |

State: WV
County: Monongahela
Operator: Joe/Stetson
PO/AFE: 100347-604

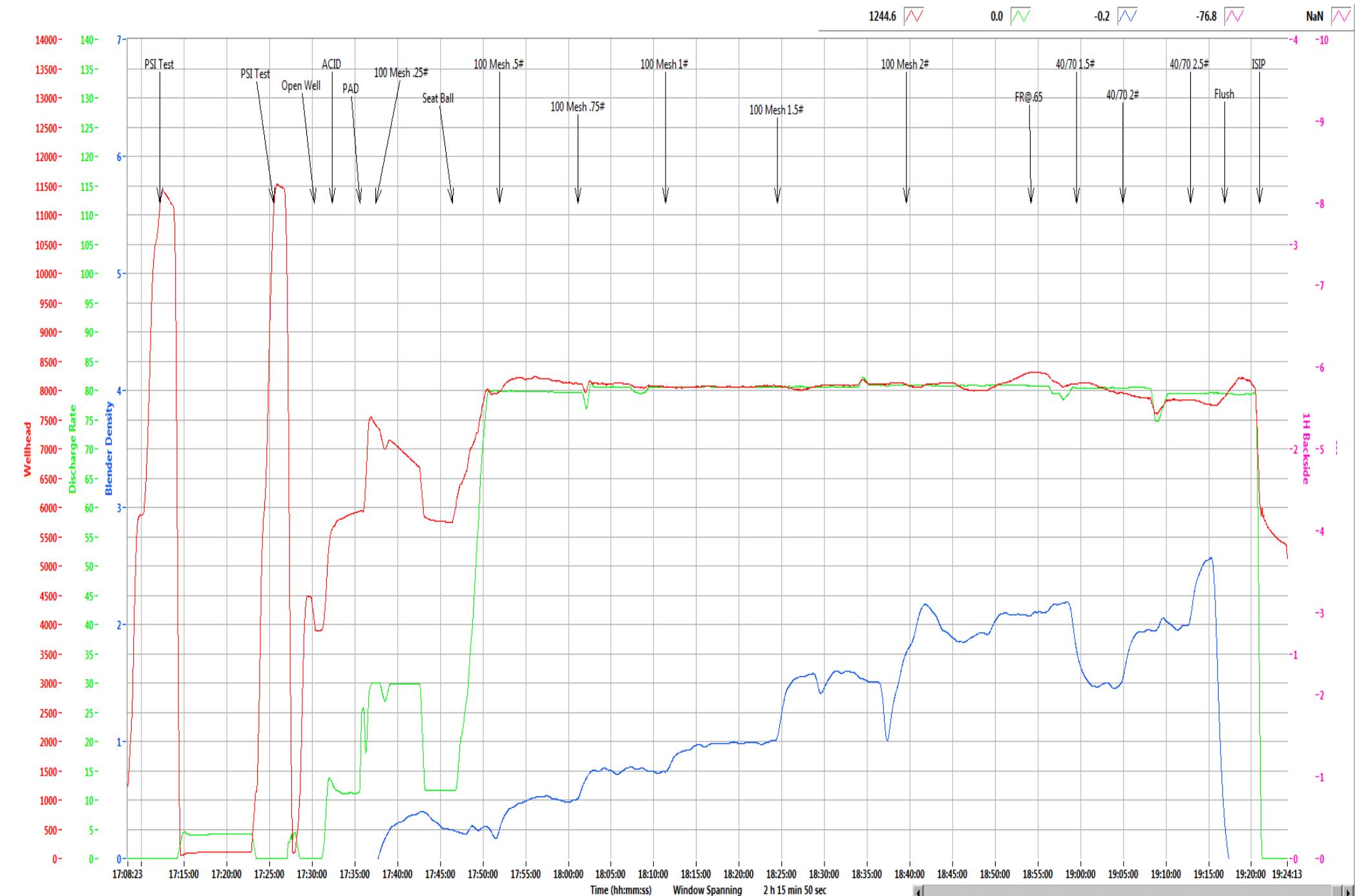
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,005.60 | CWT | \$ 5.50 | \$ 16,530.80 |
| SAND 40/70 | 40/70 white | 1,000.00 | CWT | \$ 5.75 | \$ 5,750.00 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 195 | GAL | \$ 17.75 | \$ 3,461.25 |
| BIOC11219A | Biocide @ 0.25 GPT | 87 | GAL | \$ 16.00 | \$ 1,392.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 20 | GAL | \$ 16.00 | \$ 320.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.28 | TON | \$ 55.00 | \$ 11,015.40 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 60,909.45 | |
| | | | 25% Discount Applied | \$ 15,227.36 | |
| | | | Net Stage Total | \$ 45,682.09 | |

(Print Name)
Customer Re

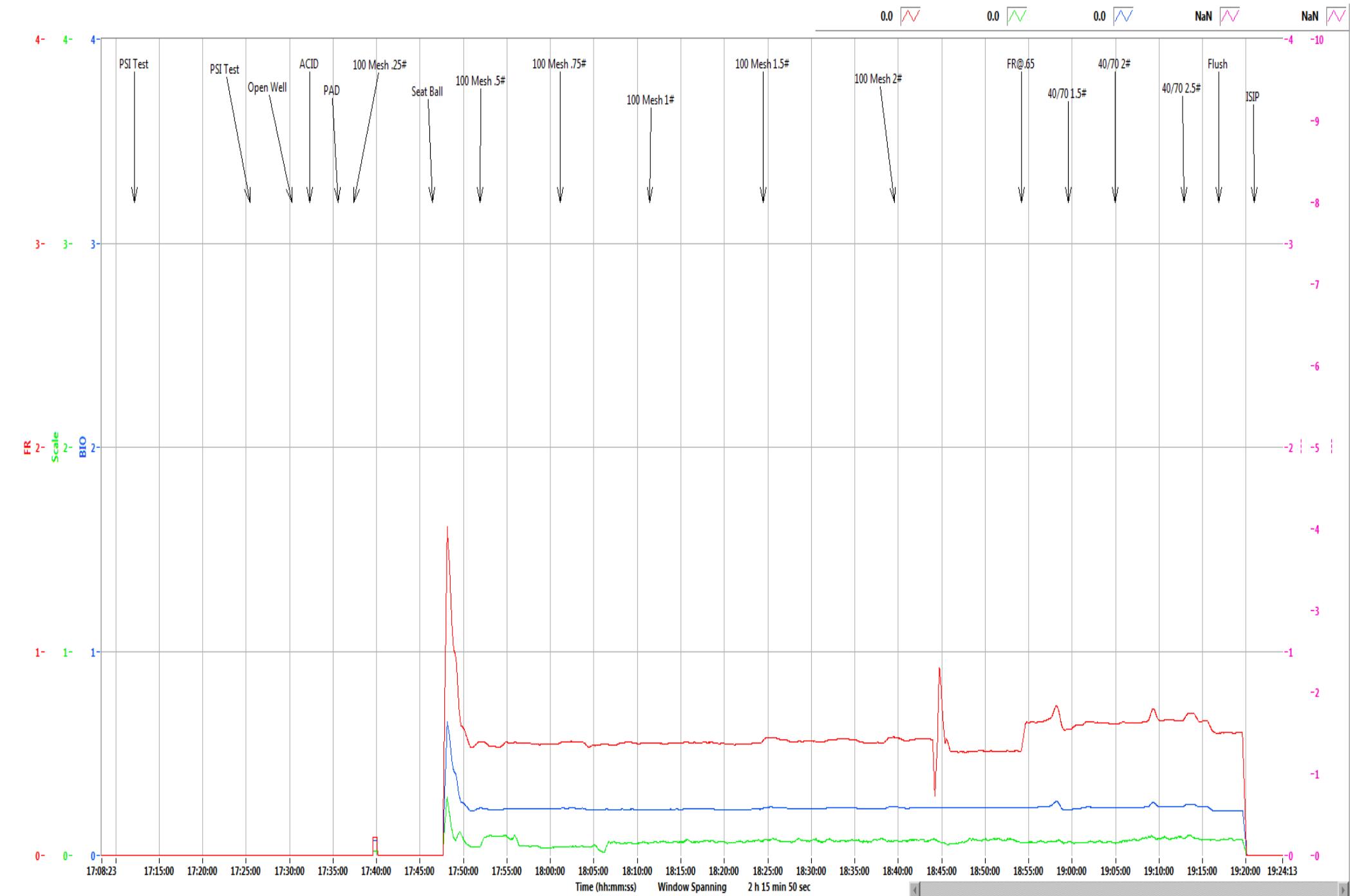


NNE
Boggess 9H
Stage 33
Producers Service Corp.

Post Stage Report
August 19, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 33 |
| Date: | 8/19/19 |
| OWP (psi): | 3,892 |
| Starting Time | 5:30 PM |
| Ending Time | 7:20 PM |
| Pump Time (hr:min) | 01:50 |
| Swap Time (hr:min) | 01:59 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 15 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,079 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,058 |
| Maximum Treating Rate (bbl/min) | 83 |
| Maximum Treating Pressure (psi) | 8,342 |
| Displacement (psi) | 7,858 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,825 |
| Final FG (psi/ft) | 1.16 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,245 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 330 |
| Pad (bbls) | 50 |
| Treatment (bbls) | 6,922 |
| Displacement (bbls) | 309 |
| (Acid Included)Total Fluid (bbls) | 7,281 |
| Dirty Job Total (bbls) | 7,709 |
| 100 Mesh | 300,640 |
| 40/70 | 100,480 |
| Total Proppant (lbs) | 401,120 |
| Total Proppant % | 100.3% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 154 |
| DRB-LT | |
| Biocide | 88 |
| Scale | 15 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22914 |
| Date: | 8/19/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 33 |

| | |
|-----------|-------------|
| State: | WV |
| County: | Monongahela |
| Operator: | Jeremy/Eck |
| PO/AFE: | 100347-604 |

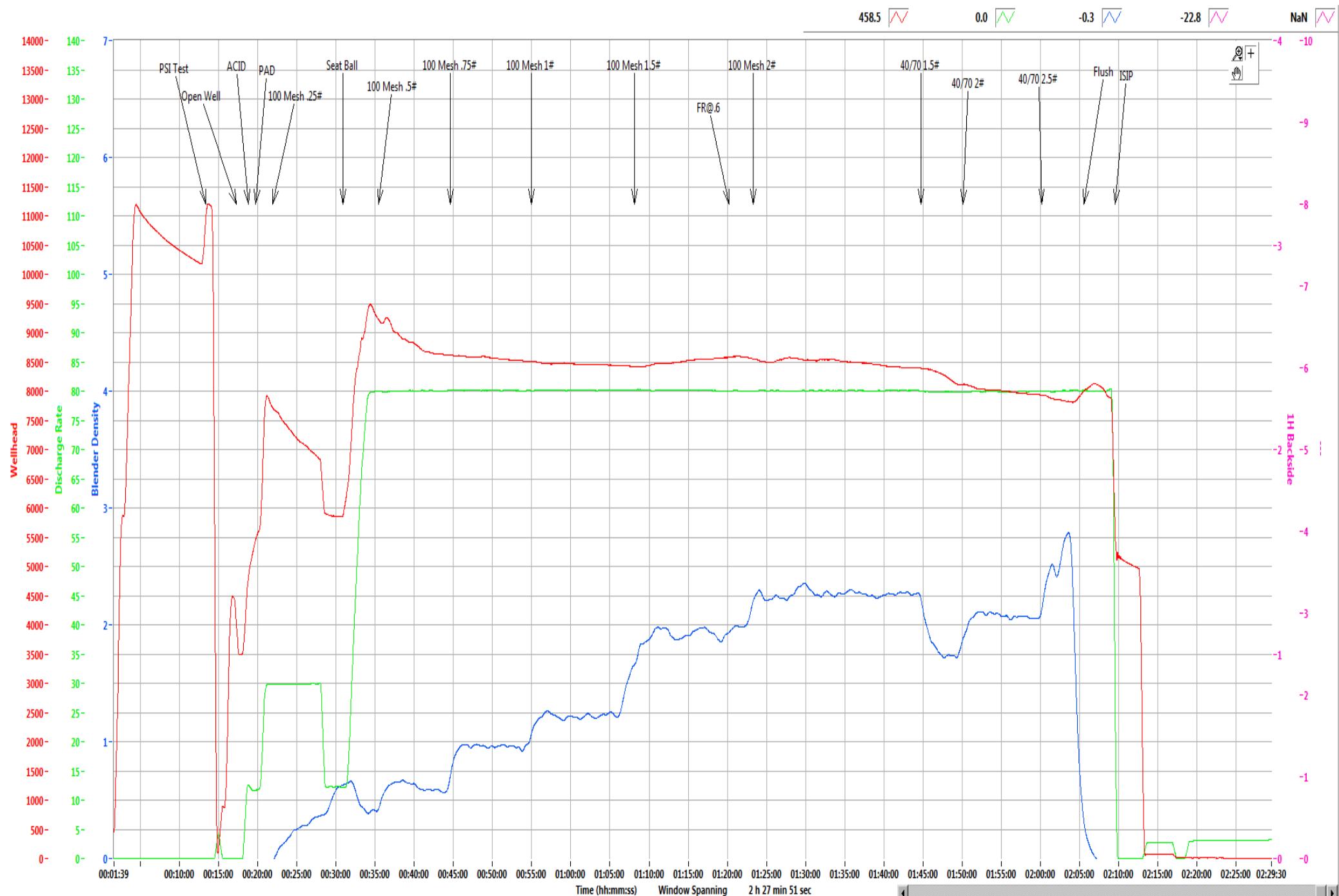
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,006.40 | CWT | \$ 5.50 | \$ 16,535.20 |
| SAND 40/70 | 40/70 white | 1,004.80 | CWT | \$ 5.75 | \$ 5,777.60 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 154 | GAL | \$ 17.75 | \$ 2,733.50 |
| BIOC11219A | Biocide @ 0.25 GPT | 88 | GAL | \$ 16.00 | \$ 1,408.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 15 | GAL | \$ 16.00 | \$ 240.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.56 | TON | \$ 55.00 | \$ 11,030.80 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 59,505.10 | |
| | | | 25% Discount Applied | \$ 14,876.28 | |
| | | | Net Stage Total | \$ 44,628.83 | |

(Print Name) Bob Givens Customer Rep: Bob Givens Customer Signature: Bob Givens

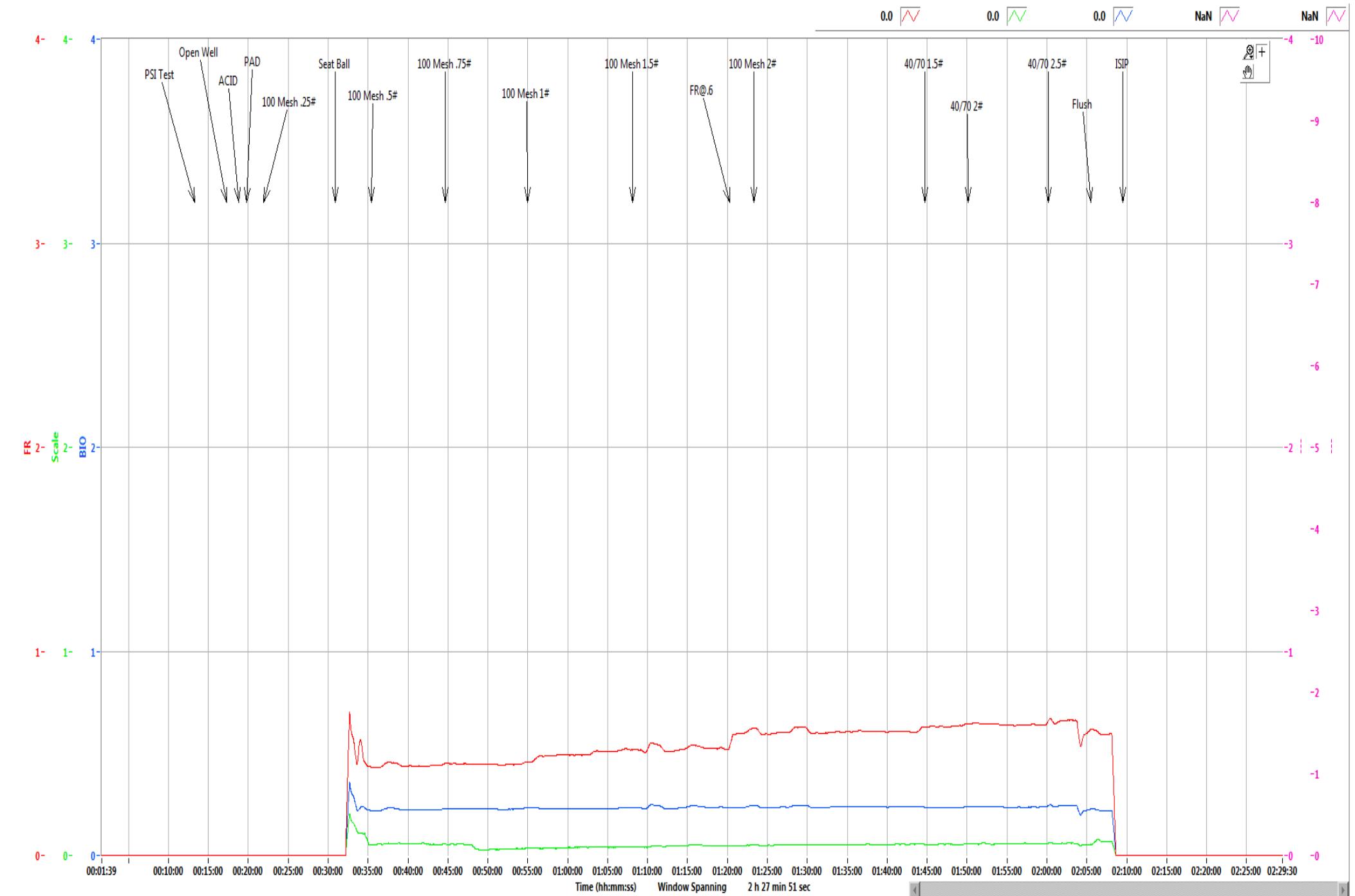


NNE
Boggess 9H
Stage 34
Producers Service Corp.

Post Stage Report
August 20, 2019



[Refresh Graph](#)



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 34 |
| Date: | 8/20/19 |
| OWP (psi): | 3,509 |
| Starting Time | 12:17 AM |
| Ending Time | 2:09 AM |
| Pump Time (hr:min) | 01:52 |
| Swap Time (hr:min) | 01:34 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,271 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,430 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 9,548 |
| Displacement (psi) | 8,025 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,059 |
| Final FG (psi/ft) | 1.06 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,567 |
| Acid 7.5% HCL (gal) | 2,000 |
| Wireline Pump Down (bbls) | 566 |
| Pad (bbls) | 50 |
| Treatment (bbls) | 7,264 |
| Displacement (bbls) | 301 |
| (Acid Included)Total Fluid (bbls) | 7,615 |
| Dirty Job Total (bbls) | 8,062 |
| 100 Mesh | 299,620 |
| 40/70 | 102,820 |
| Total Proppant (lbs) | 402,440 |
| Total Proppant % | 100.6% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 170 |
| DRB-LT | |
| Biocide | 80 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22916 |
| Date: | 8/20/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 34 |

State: WV
County: Monongahela
Operator: Jeremy/Eck
PO/AFE: 100347-604

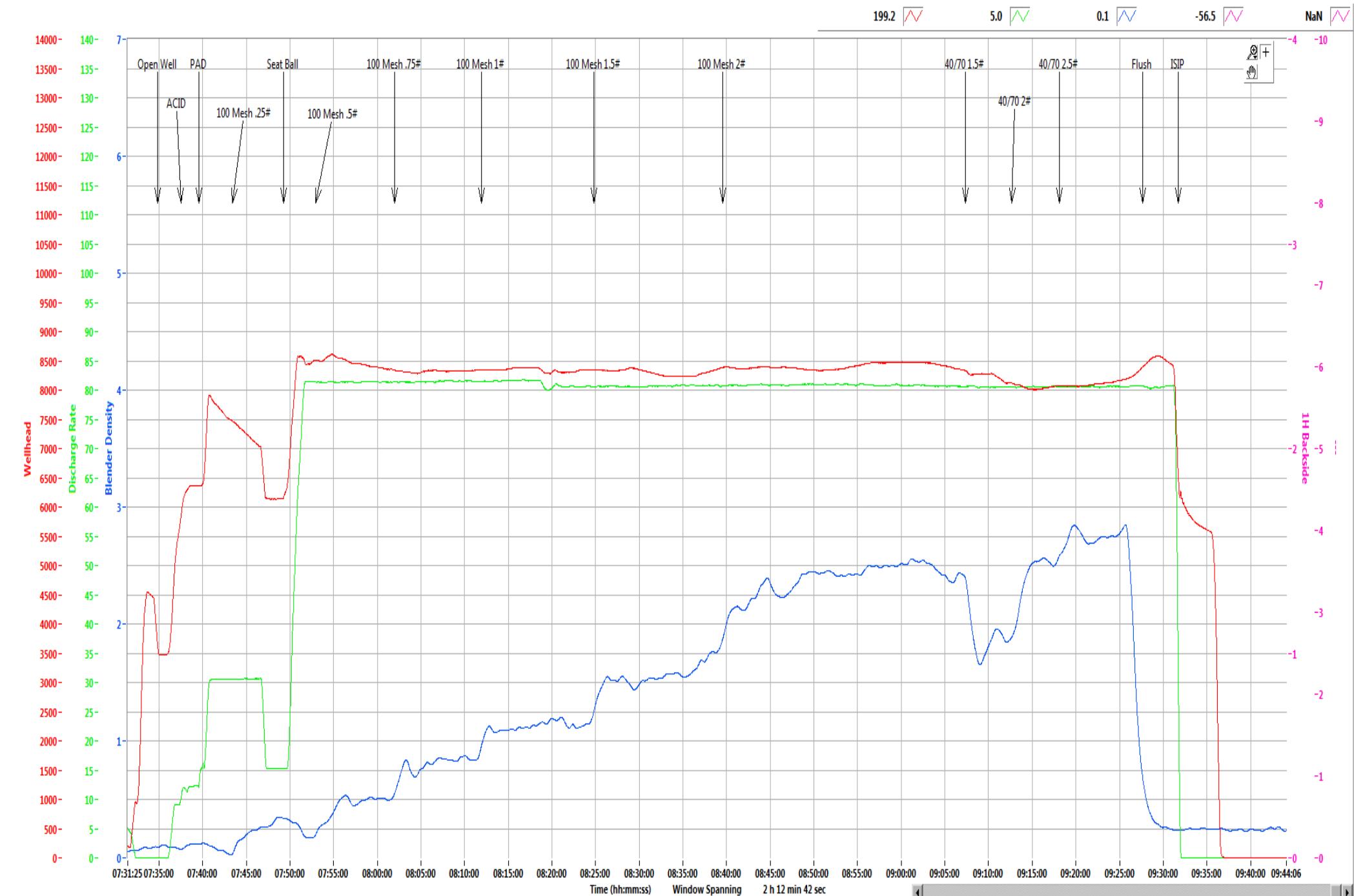
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 2000 | GAL | \$ 1.25 | \$ 2,500.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 4 | GAL | \$ 35.00 | \$ 140.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,996.20 | CWT | \$ 5.50 | \$ 16,479.10 |
| SAND 40/70 | 40/70 white | 1,028.20 | CWT | \$ 5.75 | \$ 5,912.15 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 170 | GAL | \$ 17.75 | \$ 3,017.50 |
| BIOC11219A | Biocide @ 0.25 GPT | 80 | GAL | \$ 16.00 | \$ 1,280.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 201.22 | TON | \$ 55.00 | \$ 11,067.10 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 60,483.85 | |
| | | | 25% Discount Applied | \$ 15,120.96 | |
| | | | Net Stage Total | \$ 45,362.89 | |

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 35
Producers Service Corp.

Post Stage Report
August 20, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 35 |
| Date: | 8/20/19 |
| OWP (psi): | 3,478 |
| Starting Time | 7:34 AM |
| Ending Time | 9:31 AM |
| Pump Time (hr:min) | 01:57 |
| Swap Time (hr:min) | 02:08 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 15 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,406 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 8,320 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,673 |
| Displacement (psi) | 8,431 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,928 |
| Final FG (psi/ft) | 1.17 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,993 |
| Acid 7.5% HCL (gal) | 1,000 |
| Wireline Pump Down (bbls) | 277 |
| Pad (bbls) | 100 |
| Treatment (bbls) | 7,615 |
| Displacement (bbls) | 297 |
| (Acid Included)Total Fluid (bbls) | 8,017 |
| Dirty Job Total (bbls) | 8,481 |
| 100 Mesh | 300,000 |
| 40/70 | 100,260 |
| Total Proppant (lbs) | 400,260 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 168 |
| DRB-LT | |
| Biocide | 83 |
| Scale | 33 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22918 |
| Date: | 8/20/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 35 |

State: WV
County: Monongahela
Operator: Stetson/Joe
PO/AFE: 100347-604

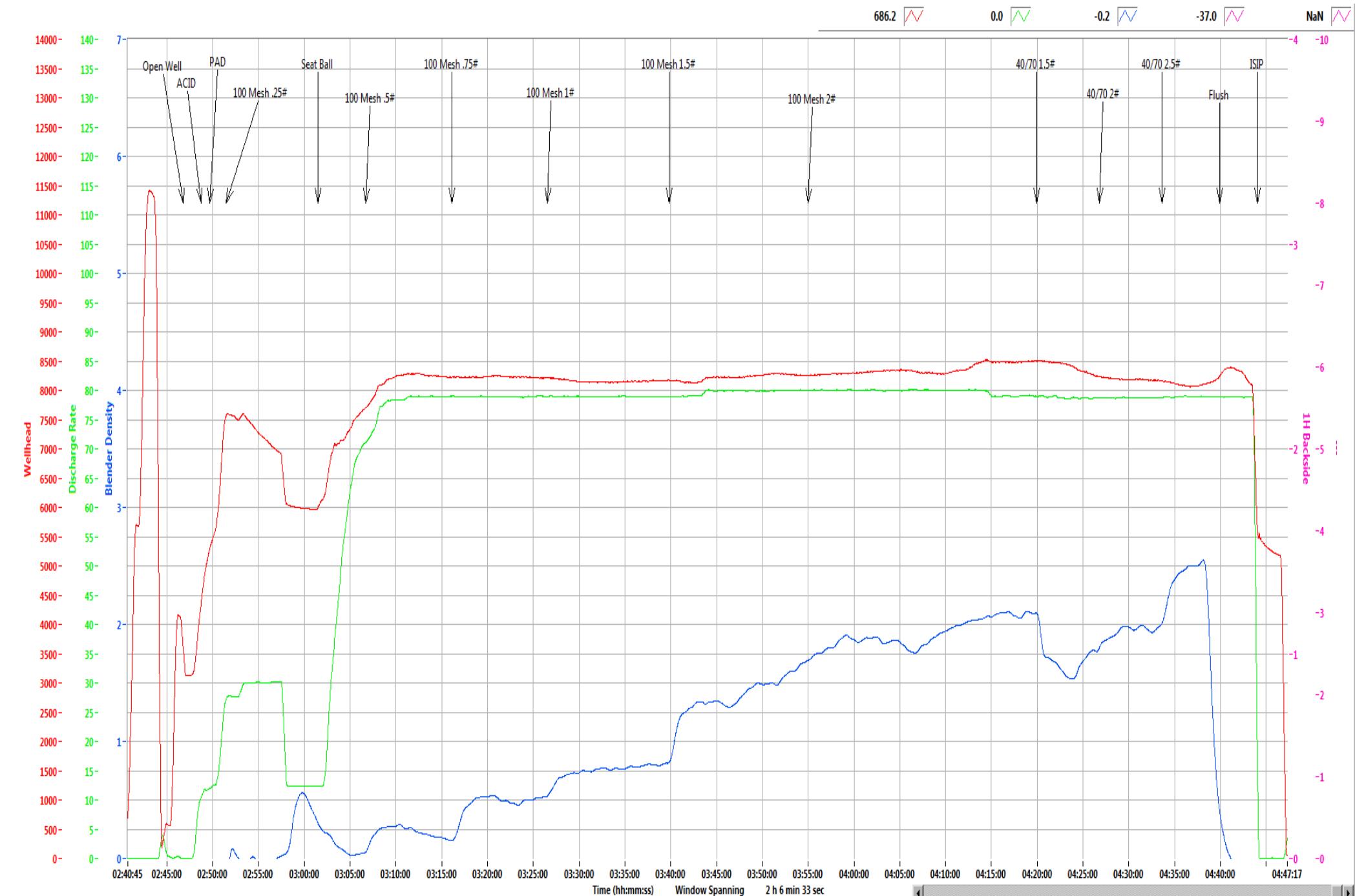
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|----------------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1000 | GAL | \$ 1.25 | \$ 1,250.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 2 | GAL | \$ 35.00 | \$ 70.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,000.00 | CWT | \$ 5.50 | \$ 16,500.00 |
| SAND 40/70 | 40/70 white | 1,002.60 | CWT | \$ 5.75 | \$ 5,764.95 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 168 | GAL | \$ 17.75 | \$ 2,982.00 |
| BIOC11219A | Biocide @ 0.25 GPT | 83 | GAL | \$ 16.00 | \$ 1,328.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 33 | GAL | \$ 16.00 | \$ 528.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.13 | TON | \$ 55.00 | \$ 11,007.15 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | | Total No Discount | \$ 59,230.10 |
| | | | | 25% Discount Applied | \$ 14,807.53 |
| | | | | Net Stage Total | \$ 44,422.58 |

(Print Name)
Customer Re

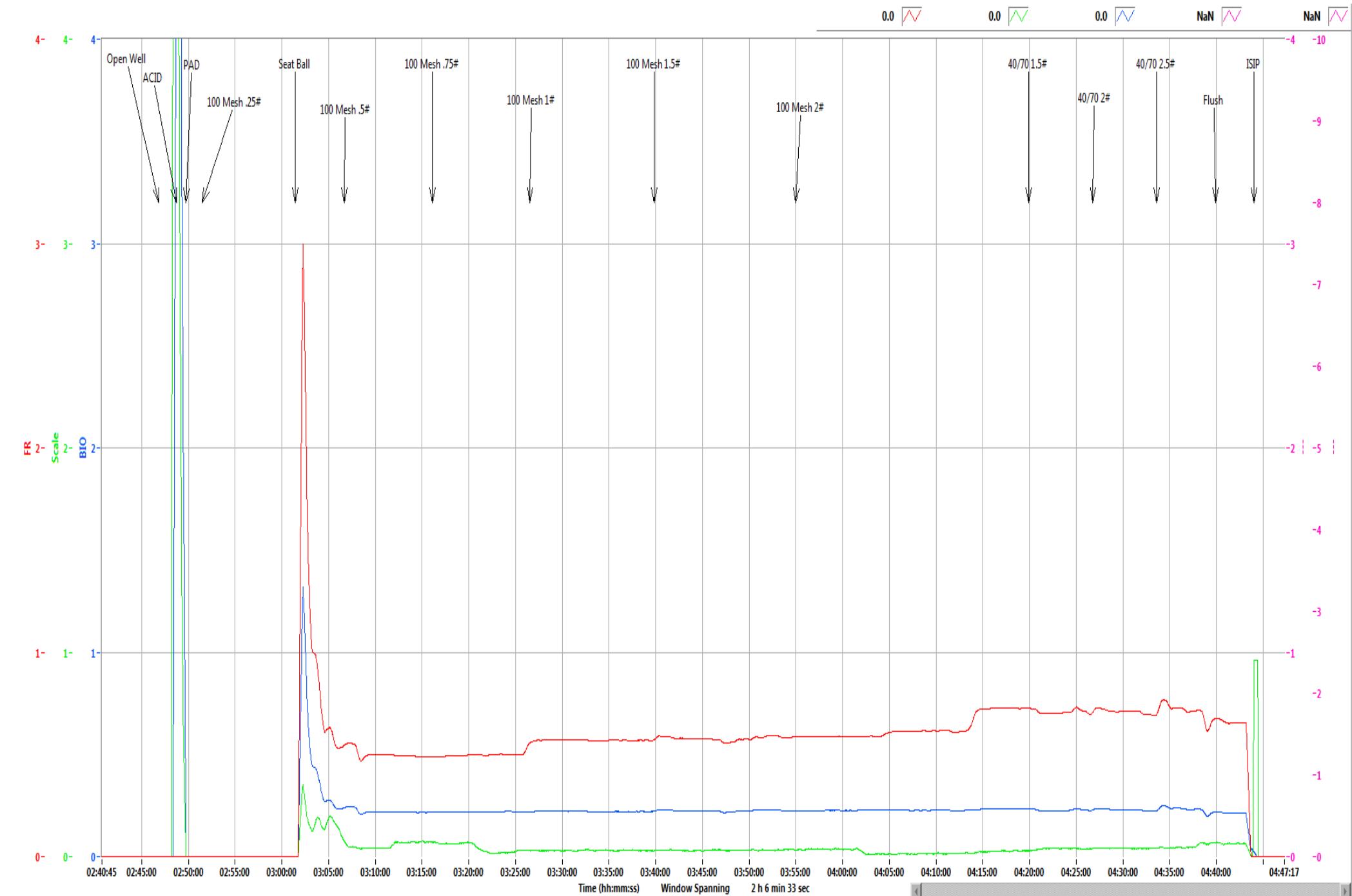


NNE
Boggess 9H
Stage 36
Producers Service Corp.

Post Stage Report
August 21, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 36 |
| Date: | 8/21/19 |
| OWP (psi): | 3,123 |
| Starting Time | 2:46 AM |
| Ending Time | 4:44 AM |
| Pump Time (hr:min) | 01:58 |
| Swap Time (hr:min) | 07:29 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,177 |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 8,231 |
| Maximum Treating Rate (bbl/min) | 83 |
| Maximum Treating Pressure (psi) | 8,575 |
| Displacement (psi) | 8,327 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,678 |
| Final FG (psi/ft) | 1.14 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|------------------------------------|---------|
| Slickwater (bbls) | 7,760 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 232 |
| Pad (bbls) | 31 |
| Treatment (bbls) | 7,446 |
| Displacement (bbls) | 294 |
| (Acid Included) Total Fluid (bbls) | 7,772 |
| Dirty Job Total (bbls) | 8,209 |
| 100 Mesh | 298,700 |
| 40/70 | 100,360 |
| Total Proppant (lbs) | 399,060 |
| Total Proppant % | 99.8% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 227 |
| DRB-LT | |
| Biocide | 84 |
| Scale | 17 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22920 |
| Date: | 8/21/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 36 |

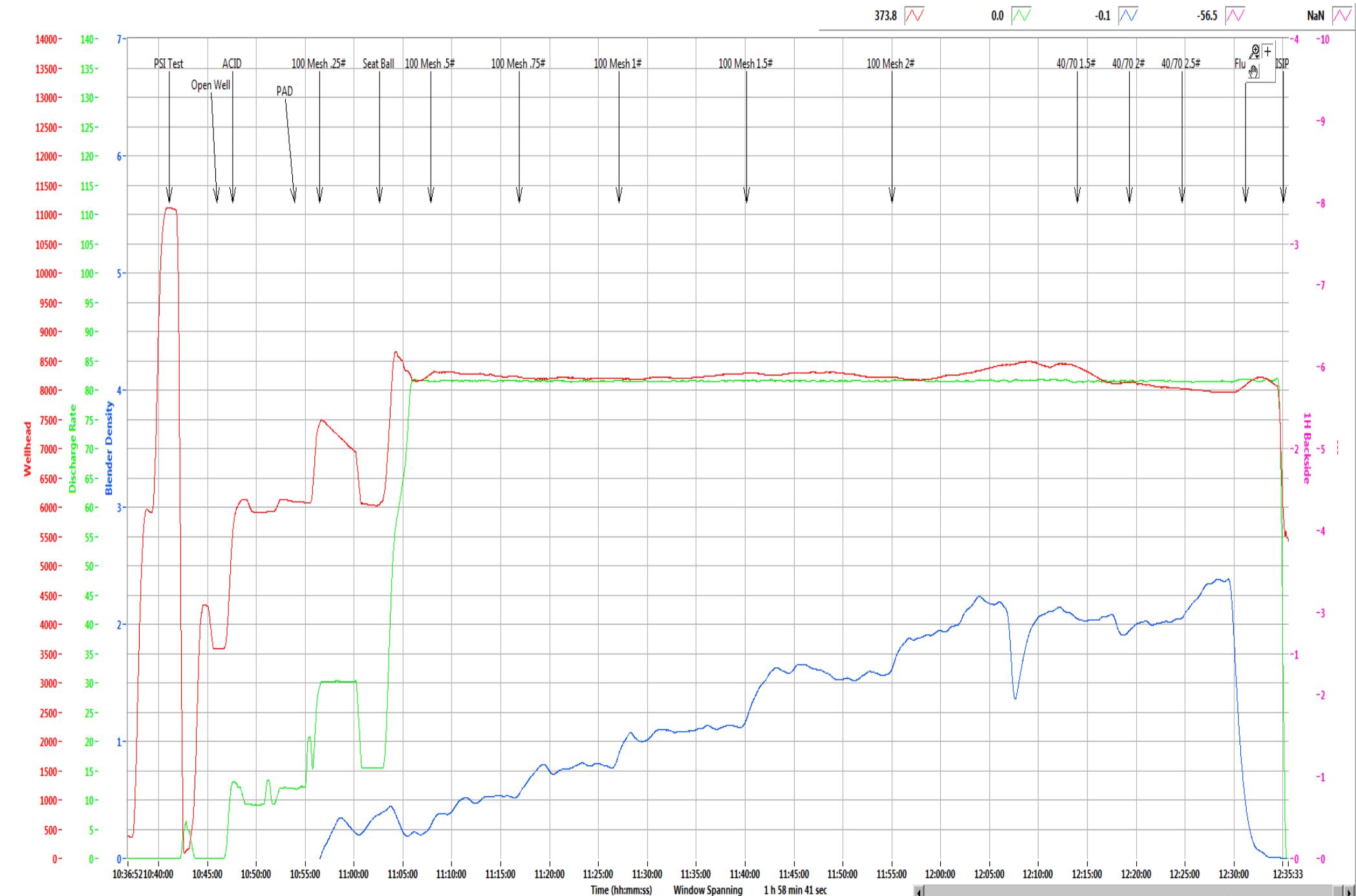
State: WV
County: Monongahela
Operator: Stetson/Joe
PO/AFE: 100347-604

(Print Name)
Customer Re

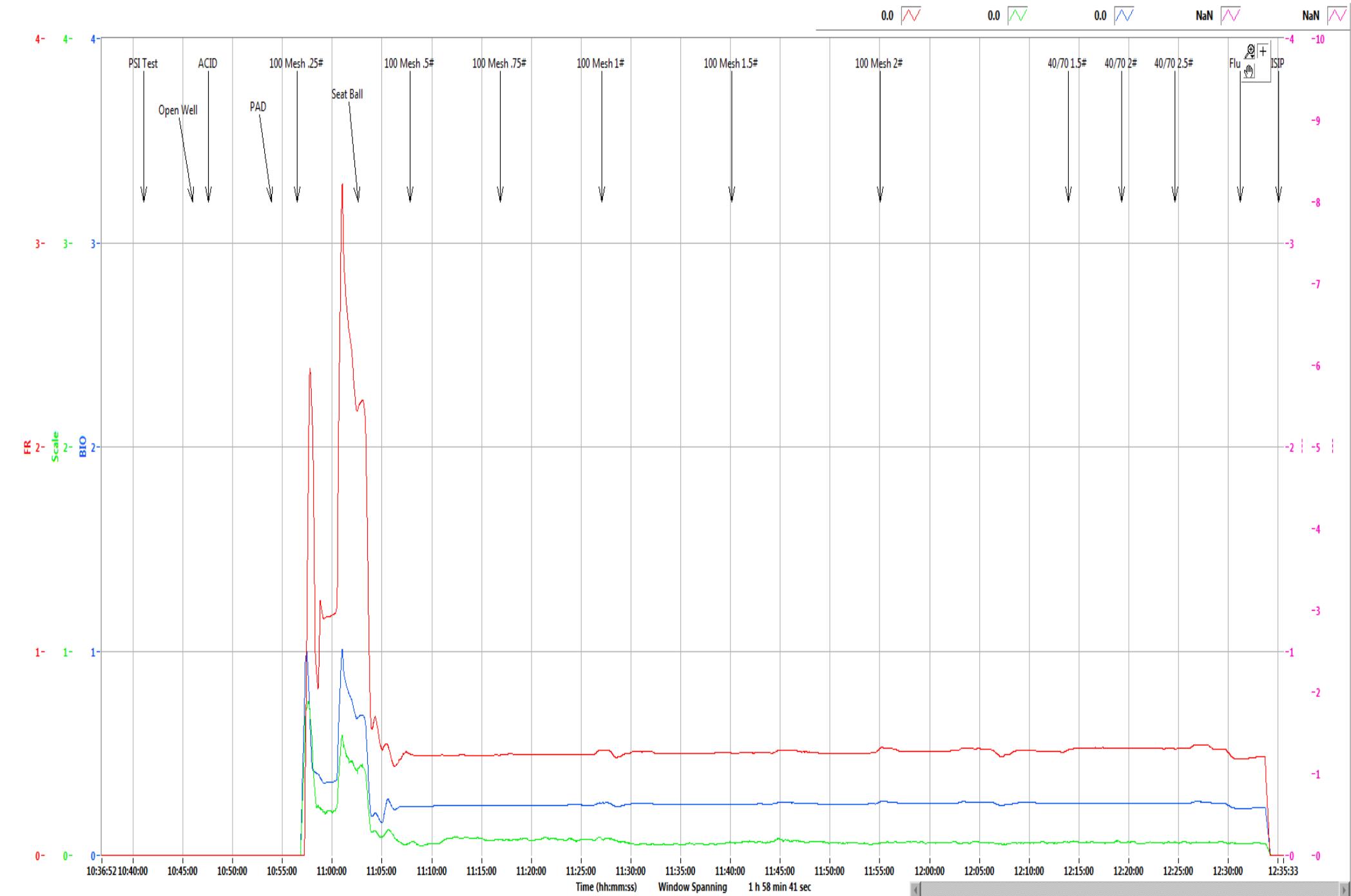


NNE
Boggess 9H
Stage 37
Producers Service Corp.

Post Stage Report
August 21, 2019



Refresh Graph



Boggess Pad 9H

| | |
|--------------------|----------|
| Stage | 37 |
| Date: | 8/21/19 |
| OWP (psi): | 3,580 |
| Starting Time | 10:46 AM |
| Ending Time | 12:34 PM |
| Pump Time (hr:min) | 01:48 |
| Swap Time (hr:min) | 01:50 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,140 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 8,232 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,525 |
| Displacement (psi) | 8,079 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,253 |
| Final FG (psi/ft) | 1.09 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,228 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 239 |
| Pad (bbls) | 128 |
| Treatment (bbls) | 6,842 |
| Displacement (bbls) | 289 |
| (Acid Included)Total Fluid (bbls) | 7,264 |
| Dirty Job Total (bbls) | 7,698 |
| 100 Mesh | 303,000 |
| 40/70 | 104,460 |
| Total Proppant (lbs) | 407,460 |
| Total Proppant % | 101.9% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 158 |
| DRB-LT | |
| Biocide | 77 |
| Scale | 22 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22922 |
| Date: | 8/21/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 37 |

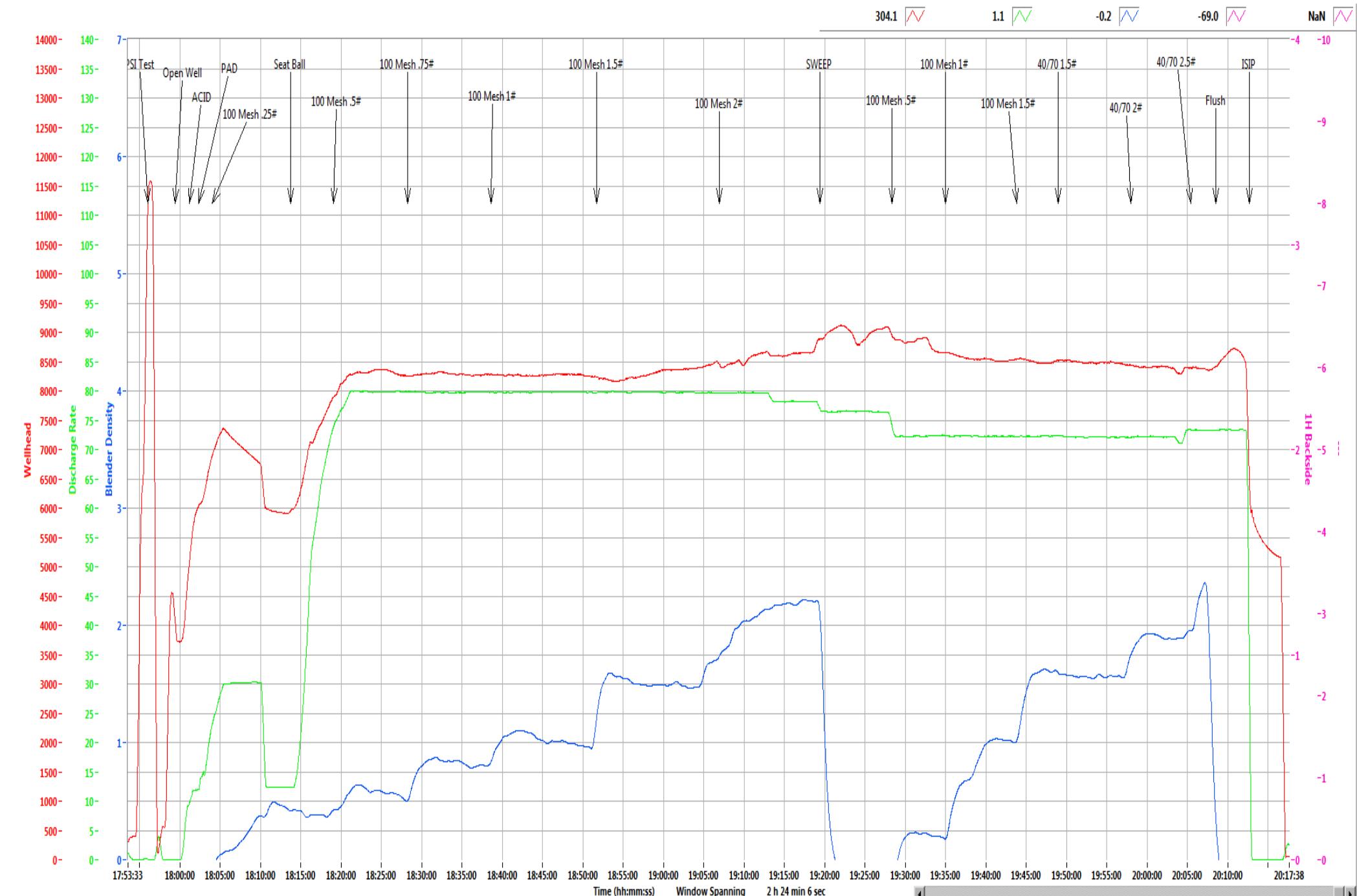
| | |
|-----------|--------------------|
| State: | WV |
| County: | Monongahela |
| Operator: | Stetson/Austin/Joe |
| PO/AFE: | 100347-604 |

(Print Name)
Customer Re

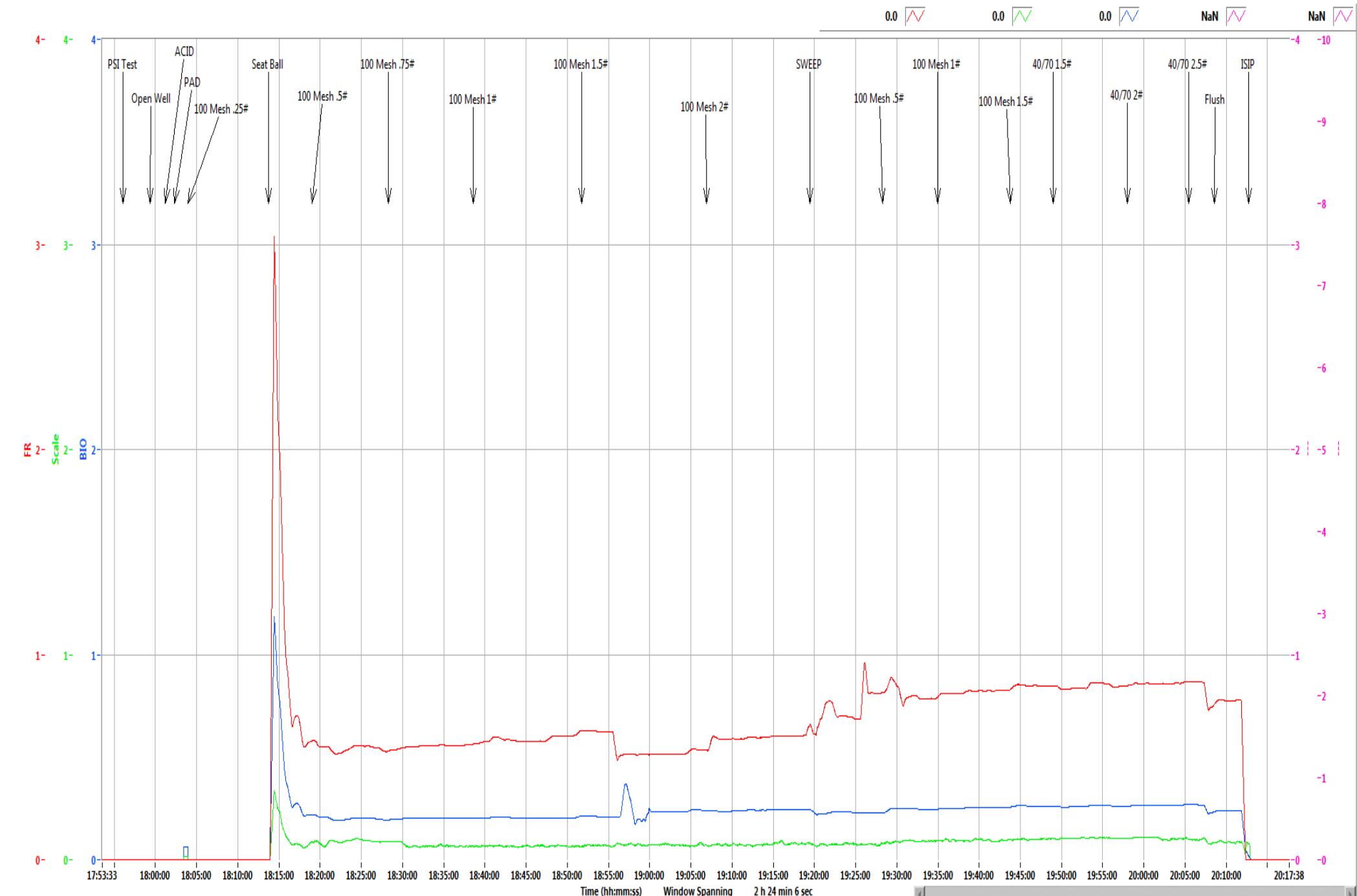


NNE
Boggess 9H
Stage 38
Producers Service Corp.

Post Stage Report
August 21, 2019



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 38 |
| Date: | 8/21/19 |
| OWP (psi): | 3,719 |
| Starting Time | 5:59 PM |
| Ending Time | 8:12 PM |
| Pump Time (hr:min) | 02:13 |
| Swap Time (hr:min) | 01:45 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,997 |
| Average Treating Rate (bbl/min) | 76 |
| Average Treating Pressure (psi) | 8,469 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 9,179 |
| Displacement (psi) | 8,413 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,868 |
| Final FG (psi/ft) | 1.16 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 8,760 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 233 |
| Pad (bbls) | 29 |
| Treatment (bbls) | 8,461 |
| Displacement (bbls) | 281 |
| (Acid Included)Total Fluid (bbls) | 8,772 |
| Dirty Job Total (bbls) | 9,209 |
| 100 Mesh | 299,360 |
| 40/70 | 100,580 |
| Total Proppant (lbs) | 399,940 |
| Total Proppant % | 100.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 205 |
| DRB-LT | |
| Biocide | 92 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22924
Date: 8/21/2019
Well Name: Boggess 9H
Stage No.: 38

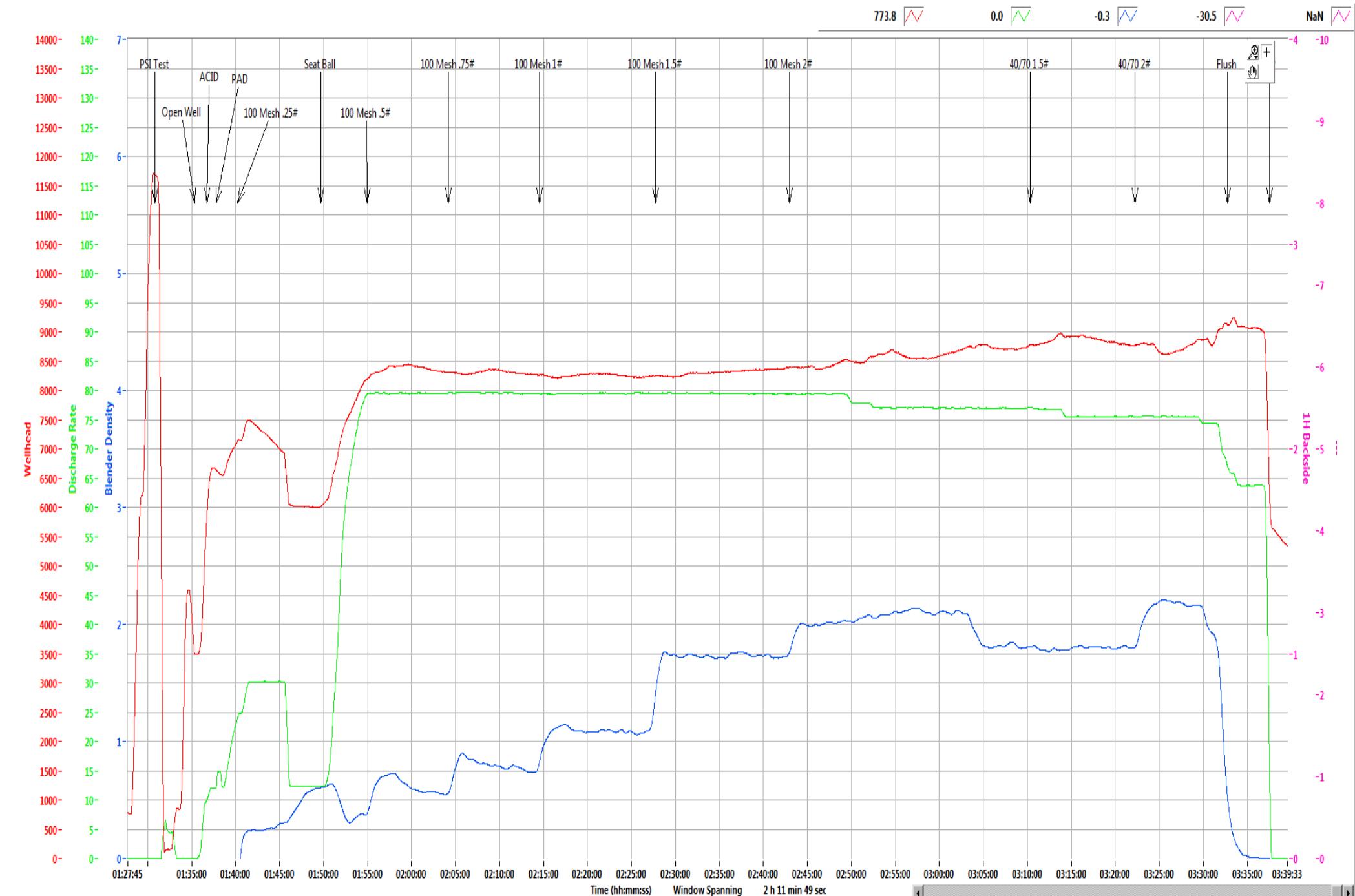
State: WV
County: Monongahela
Operator: Eck/Tilton/Kelby
PO/AFE: 100347-604

(Print Name)
Customer Re

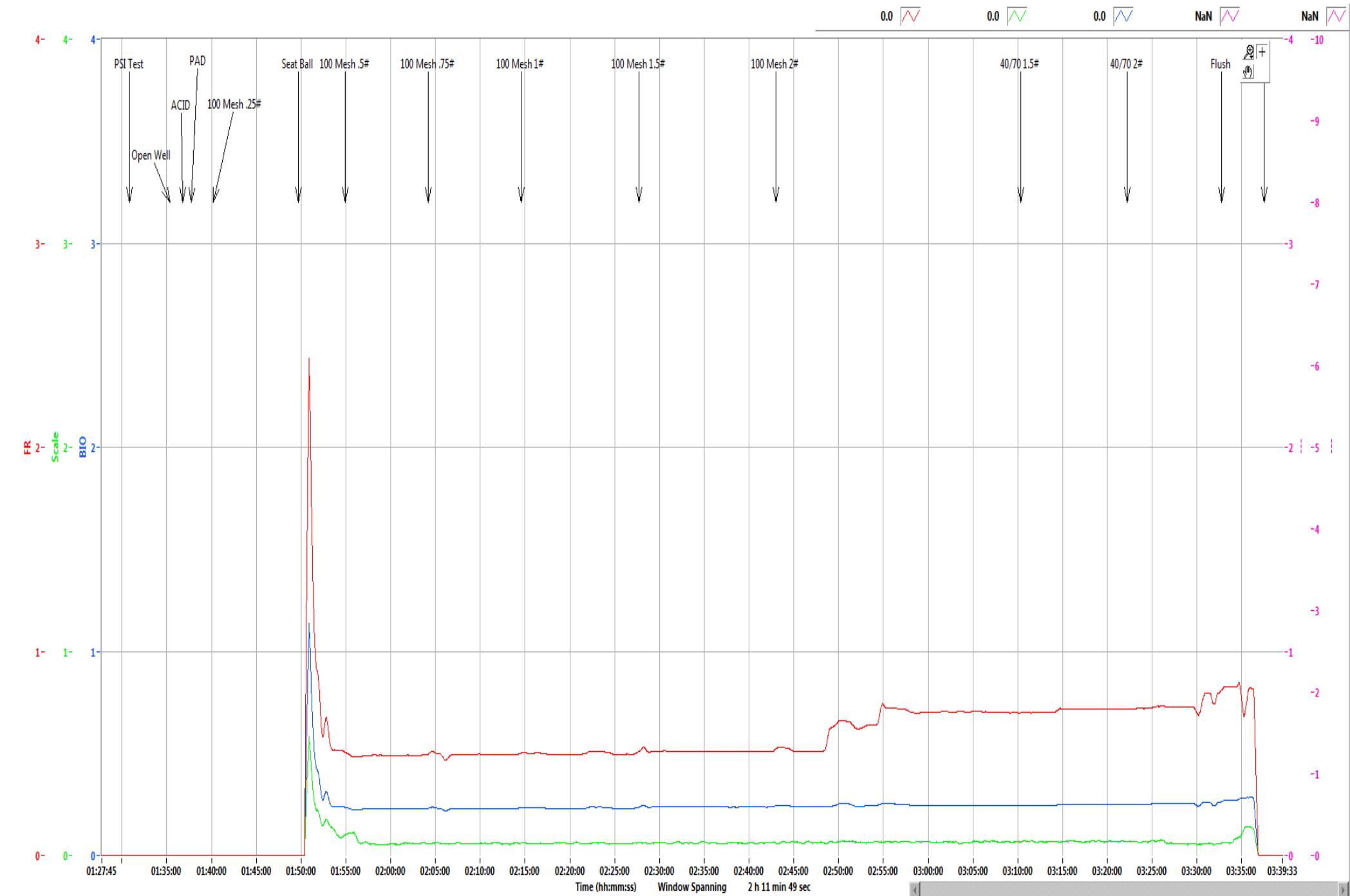


**NNE
Boggess 9H
Stage 39
Producers Service Corp.**

**Post Stage Report
August 22, 2019**



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 39 |
| Date: | 8/22/19 |
| OWP (psi): | 3,493 |
| Starting Time | 1:35 AM |
| Ending Time | 3:37 AM |
| Pump Time (hr:min) | 02:02 |
| Swap Time (hr:min) | 01:50 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,081 |
| Average Treating Rate (bbl/min) | 78 |
| Average Treating Pressure (psi) | 8,487 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 9,288 |
| Displacement (psi) | 9,091 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 5,642 |
| Final FG (psi/ft) | 1.14 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,996 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 238 |
| Pad (bbls) | 42 |
| Treatment (bbls) | 9,049 |
| Displacement (bbls) | 280 |
| (Acid Included)Total Fluid (bbls) | 8,008 |
| Dirty Job Total (bbls) | 8,459 |
| 100 Mesh | 300,660 |
| 40/70 | 99,740 |
| Total Proppant (lbs) | 400,400 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 205 |
| DRB-LT | |
| Biocide | 85 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|-----------|
| Invoice #: | 22926 |
| Date: | 8/22/2019 |
| Well Name: | Bogess 9H |
| Stage No.: | 39 |

State: WV
County: Monongahela
Operator: Eck/Tilton/Kelby
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|----------------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 500 | GAL | \$ 1.25 | \$ 625.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 1 | GAL | \$ 35.00 | \$ 35.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,006.60 | CWT | \$ 5.50 | \$ 16,536.30 |
| SAND 40/70 | 40/70 white | 997.40 | CWT | \$ 5.75 | \$ 5,735.05 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 205 | GAL | \$ 17.75 | \$ 3,638.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 85 | GAL | \$ 16.00 | \$ 1,360.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 200.2 | TON | \$ 55.00 | \$ 11,011.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | 281 | GAL | \$ 3.04 | \$ 854.24 |
| | | | | | |
| | | | | Total No Discount | \$ 59,029.10 |
| | | | | 25% Discount Applied | \$ 14,757.28 |
| | | | | Net Stage Total | \$ 45,126.07 |

(Print Name) Kob Cowger
Customer Rep:



NNE
Boggess 9H
Stage 40
Producers Service Corp.

Post Stage Report
August 22, 2019

254.5



0.0



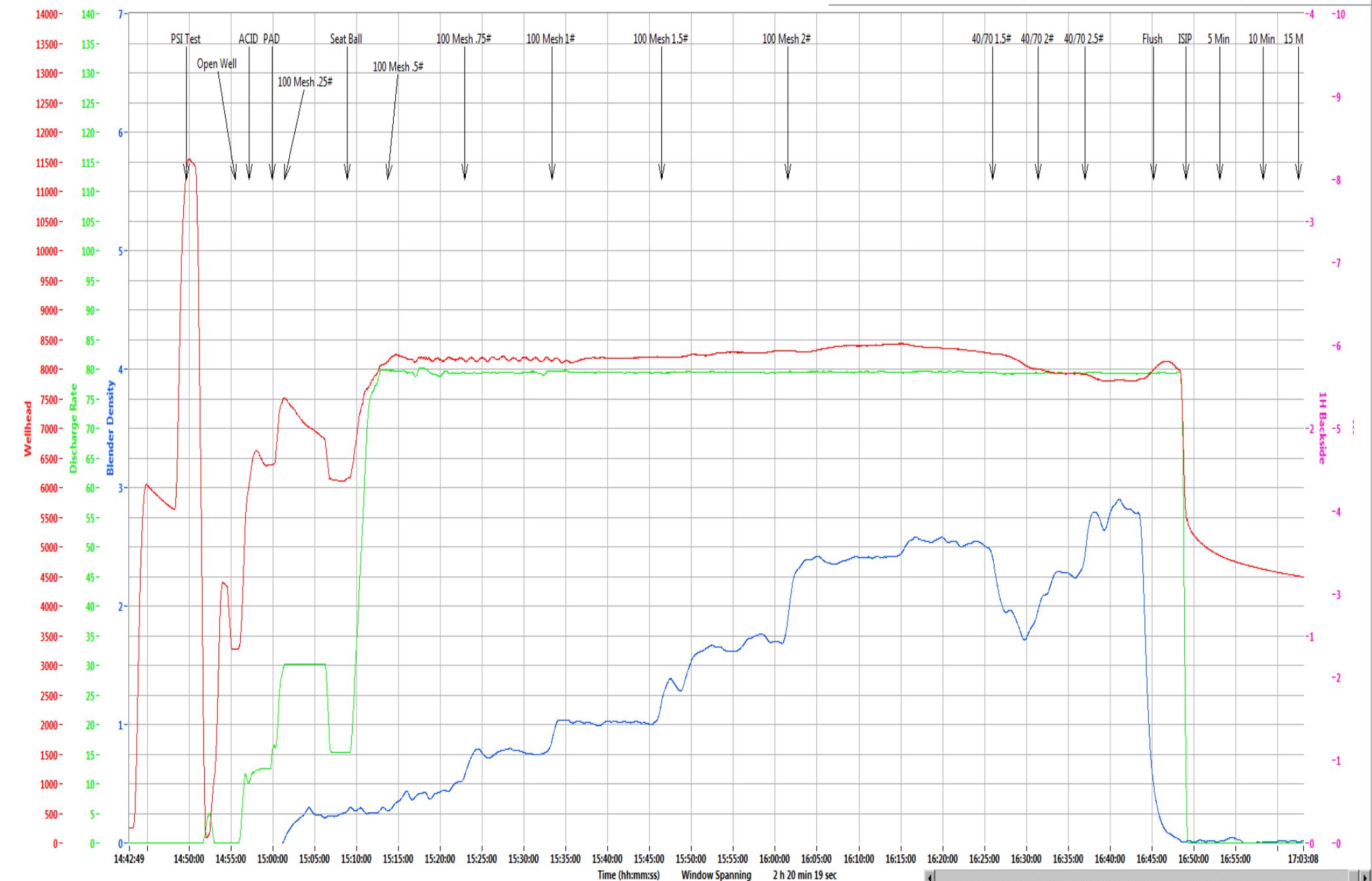
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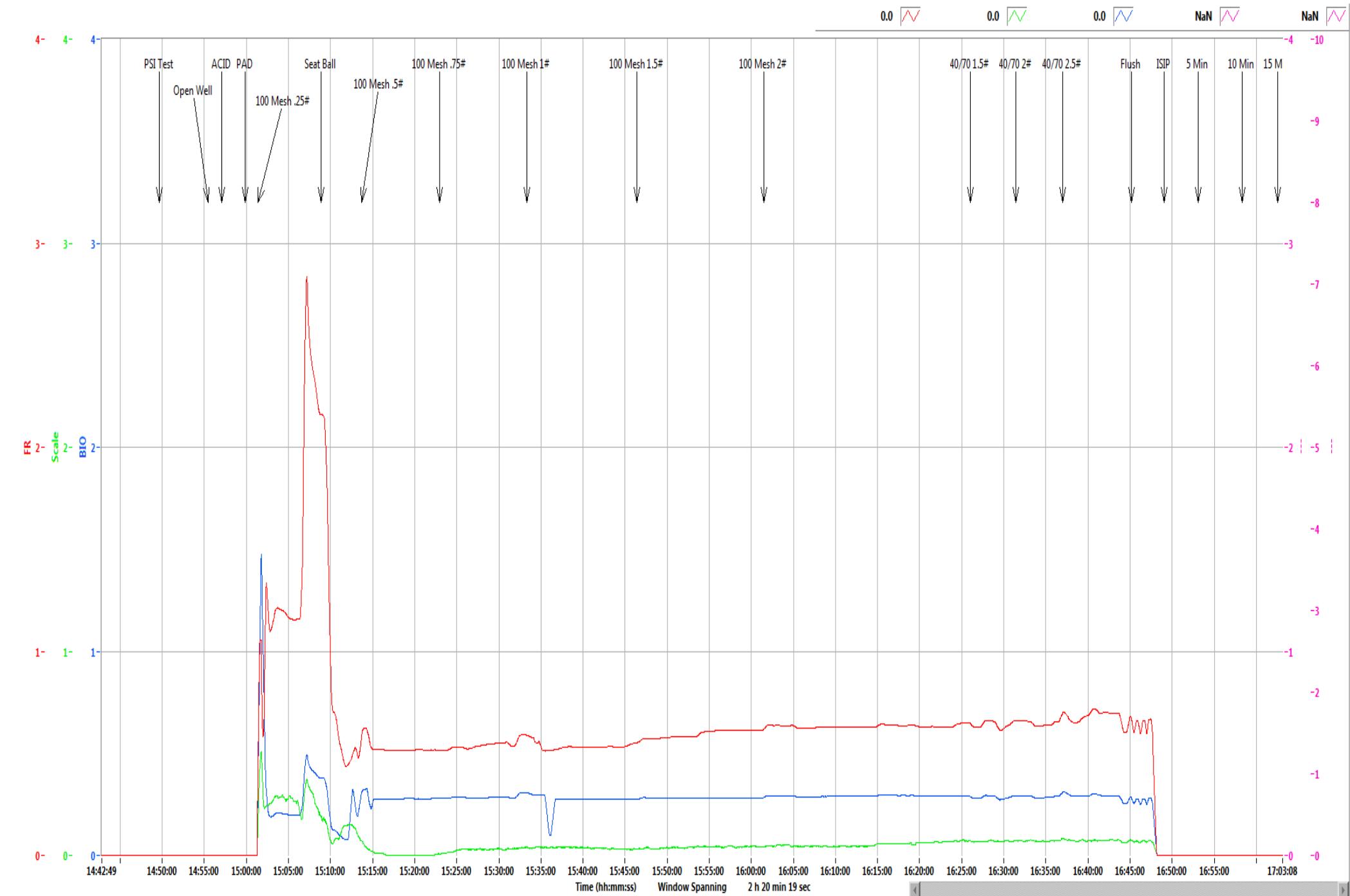
-72.1



NaN



Refresh Graph



Refresh Graph

Boggess Pad 9H

| | |
|--------------------|---------|
| Stage | 40 |
| Date: | 8/22/19 |
| OWP (psi): | 3,273 |
| Starting Time | 2:49 PM |
| Ending Time | 5:04 PM |
| Pump Time (hr:min) | 02:15 |
| Swap Time (hr:min) | 07:39 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,189 |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 8,184 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,464 |
| Displacement (psi) | 8,066 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,384 |
| Final FG (psi/ft) | 1.10 |
| 5 Minute Leakoff Pressure (psi) | 4,835 |
| 5 Minute Leakoff Rate (psi/min) | 110 |
| 10 Minute Leakoff Pressure (psi) | 4,615 |
| 10 Minute Leakoff Rate (psi/min) | 77 |
| 15 Minute Leakoff Pressure (psi) | 4,500 |
| 15 Minute Leakoff Rate (psi/min) | 59 |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,627 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 244 |
| Pad (bbls) | 35 |
| Treatment (bbls) | 7,349 |
| Displacement (bbls) | 273 |
| (Acid Included)Total Fluid (bbls) | 7,663 |
| Dirty Job Total (bbls) | 8,109 |
| 100 Mesh | 300,060 |
| 40/70 | 100,000 |
| Total Proppant (lbs) | 400,060 |
| Total Proppant % | 100.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 165 |
| DRB-LT | |
| Biocide | 83 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22928
Date: 8/22/2019
Well Name: Boggess 9H
Stage No.: 40

State: WV
County: Monongahela
Operator: Stetson/Jeremy M
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1500 | GAL | \$ 1.25 | \$ 1,875.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 3 | GAL | \$ 35.00 | \$ 105.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,000.60 | CWT | \$ 5.50 | \$ 16,503.30 |
| SAND 40/70 | 40/70 white | 1,000.00 | CWT | \$ 5.75 | \$ 5,750.00 |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 165 | GAL | \$ 17.75 | \$ 2,928.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 83 | GAL | \$ 16.00 | \$ 1,328.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| ARROWS UP SYSTEM | | 200.03 | TON | \$ 55.00 | \$ 11,001.65 |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | 0 | GAL | \$ 3.04 | \$ - |
| | | | | | |
| Total No Discount \$ 59,579.70 | | | | | |
| 25% Discount Applied \$ 14,894.93 | | | | | |
| Net Stage Total \$ 44,684.78 | | | | | |

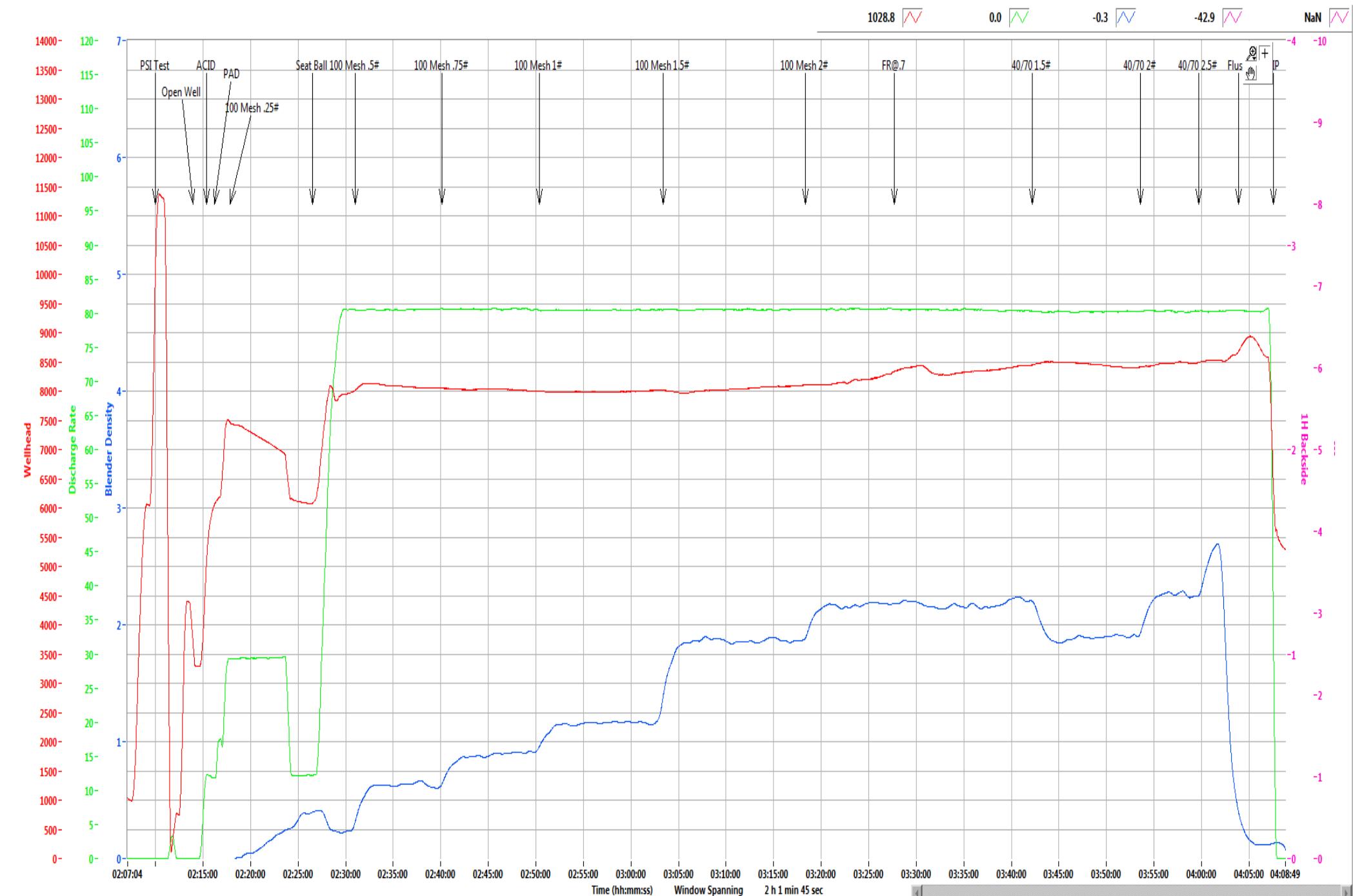
(Print Name)
Customer Rep: Kevin Hudson

Customer Signature: Kevin Hudson



NNE
Boggess 9H
Stage 41
Producers Service Corp.

Post Stage Report
August 23, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 41 |
| Date: | 8/23/19 |
| OWP (psi): | 3,281 |
| Starting Time | 2:13 AM |
| Ending Time | 4:07 AM |
| Pump Time (hr:min) | 01:54 |
| Swap Time (hr:min) | 01:03 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,188 |
| Average Treating Rate (bbl/min) | 76 |
| Average Treating Pressure (psi) | 8,070 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,968 |
| Displacement (psi) | 8,729 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,408 |
| Final FG (psi/ft) | 1.11 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,840 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 252 |
| Pad (bbls) | 7,443 |
| Treatment (bbls) | 7,522 |
| Displacement (bbls) | 271 |
| (Acid Included)Total Fluid (bbls) | 7,852 |
| Dirty Job Total (bbls) | 8,283 |
| 100 Mesh | 304,940 |
| 40/70 | 100,660 |
| Total Proppant (lbs) | 405,600 |
| Total Proppant % | 101.4% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 200 |
| Biocide | 85 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22931
Date: 8/23/2019
Well Name: Boggess 9H
Stage No.: 41

State: WV
County: Monongahela
Operator: Eck/Kelby
PO/AFE: 100345-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|---|-------------------------------|----------|---------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 500 | GAL | \$ 1.25 | \$ 625.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 1 | GAL | \$ 35.00 | \$ 35.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,049.40 | CWT | \$ 5.50 | \$ 16,771.70 |
| SAND 40/70 | 40/70 white | 1,006.60 | CWT | \$ 5.75 | \$ 5,787.95 |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 200 | GAL | \$ 17.75 | \$ 3,550.00 |
| BIOC11219A | Biocide @ 0.25 GPT | 85 | GAL | \$ 16.00 | \$ 1,360.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 20 | GAL | \$ 16.00 | \$ 320.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| ARROWS UP SYSTEM | | 202.8 | TON | \$ 55.00 | \$ 11,154.00 |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | 0 | GAL | \$ 3.04 | \$ - |
| | | | | | |
| *****Scale used for upstream injection***** | | | | | |
| Total No Discount \$ 59,403.65 25% Discount Applied \$ 14,850.91 Net Stage Total \$ 44,552.74 | | | | | |

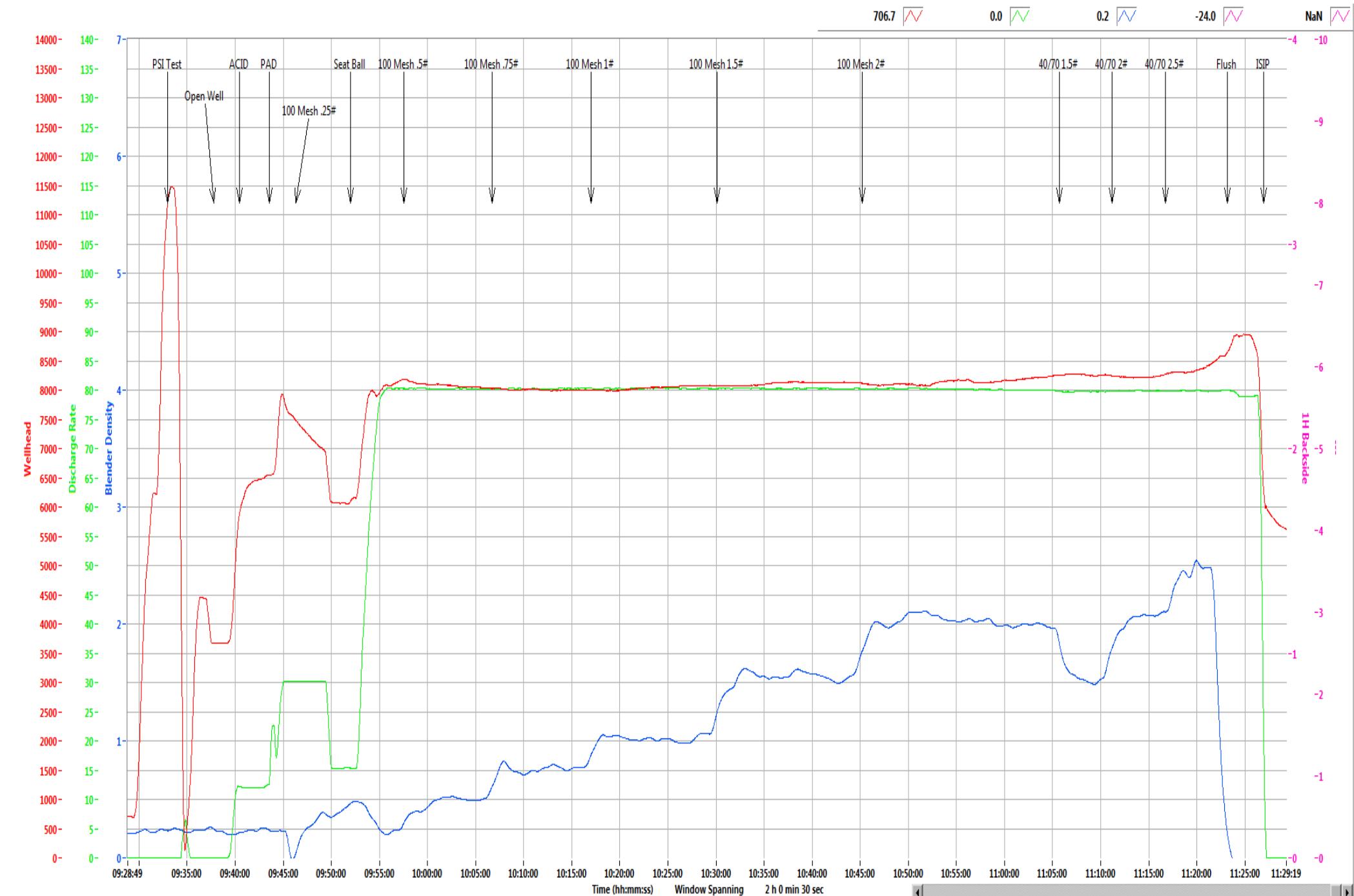
(Print Name)
Customer Rep: Rob Lang

Customer Signature: Rob Lang

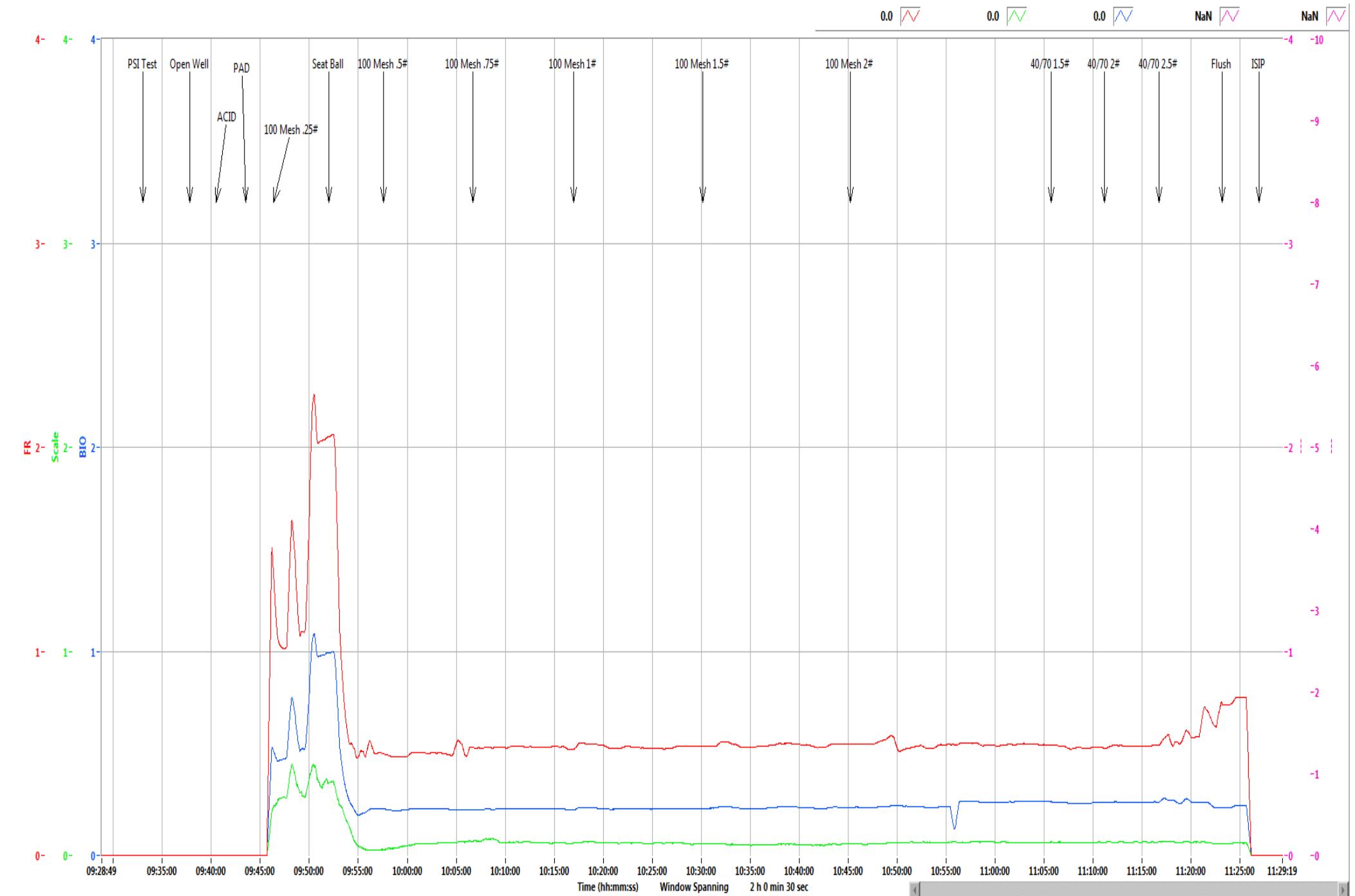


NNE
Boggess 9H
Stage 42
Producers Service Corp.

Post Stage Report
August 23, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 42 |
| Date: | 8/23/19 |
| OWP (psi): | 3,673 |
| Starting Time | 9:37 AM |
| Ending Time | 11:27 AM |
| Pump Time (hr:min) | 01:50 |
| Swap Time (hr:min) | 01:30 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,232 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,116 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 9,032 |
| Displacement (psi) | 8,693 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,951 |
| Final FG (psi/ft) | 1.17 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,270 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 224 |
| Pad (bbls) | 73 |
| Treatment (bbls) | 6,960 |
| Displacement (bbls) | 267 |
| (Acid Included)Total Fluid (bbls) | 7,306 |
| Dirty Job Total (bbls) | 7,740 |
| 100 Mesh | 304,000 |
| 40/70 | 99,940 |
| Total Proppant (lbs) | 403,940 |
| Total Proppant % | 101.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 187 |
| Biocide | 81 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22933 |
| Date: | 8/23/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 42 |

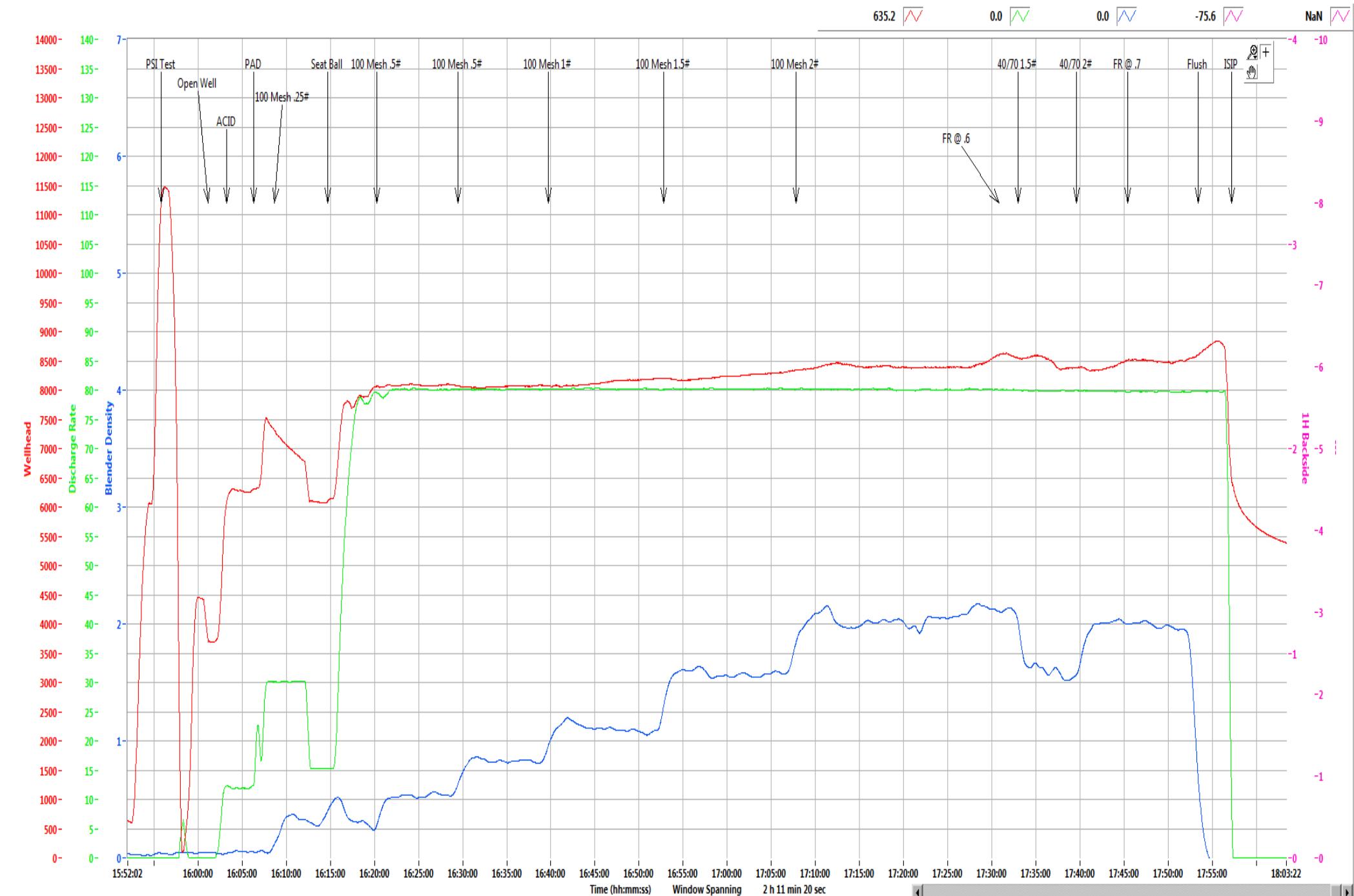
State: WV
County: Monongahela
Operator: Stetson/Jeremy
PO/AFE: 100347-604

(Print Name)
Customer Re

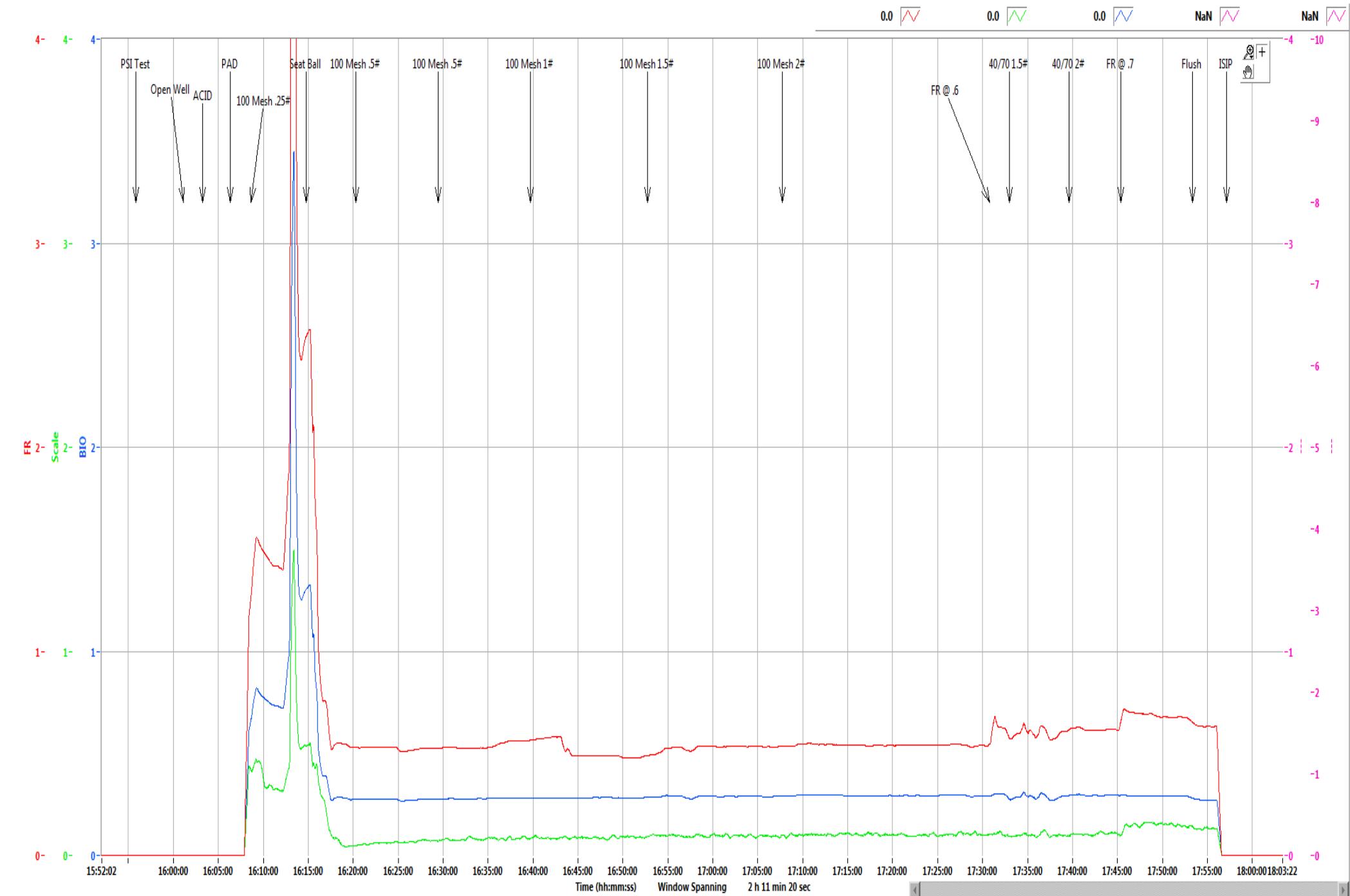


NNE
Boggess 9H
Stage 43
Producers Service Corp.

Post Stage Report
August 23, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 43 |
| Date: | 8/23/19 |
| OWP (psi): | 3,699 |
| Starting Time | 4:01 PM |
| Ending Time | 5:57 PM |
| Pump Time (hr:min) | 01:56 |
| Swap Time (hr:min) | 01:24 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,170 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,613 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,690 |
| Displacement (psi) | 8,613 |
| Max Prop Con (lb/gal) | 2.00 |
| ShutDown ISIP (psi) | 6,466 |
| Final FG (psi/ft) | 1.24 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,848 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 211 |
| Pad (bbls) | 61 |
| Treatment (bbls) | 7,555 |
| Displacement (bbls) | 263 |
| (Acid Included)Total Fluid (bbls) | 7,884 |
| Dirty Job Total (bbls) | 8,309 |
| 100 Mesh | 303,020 |
| 40/70 | 101,300 |
| Total Proppant (lbs) | 404,320 |
| Total Proppant % | 101.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 182 |
| Biocide | 85 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22935 |
| Date: | 8/23/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 43 |

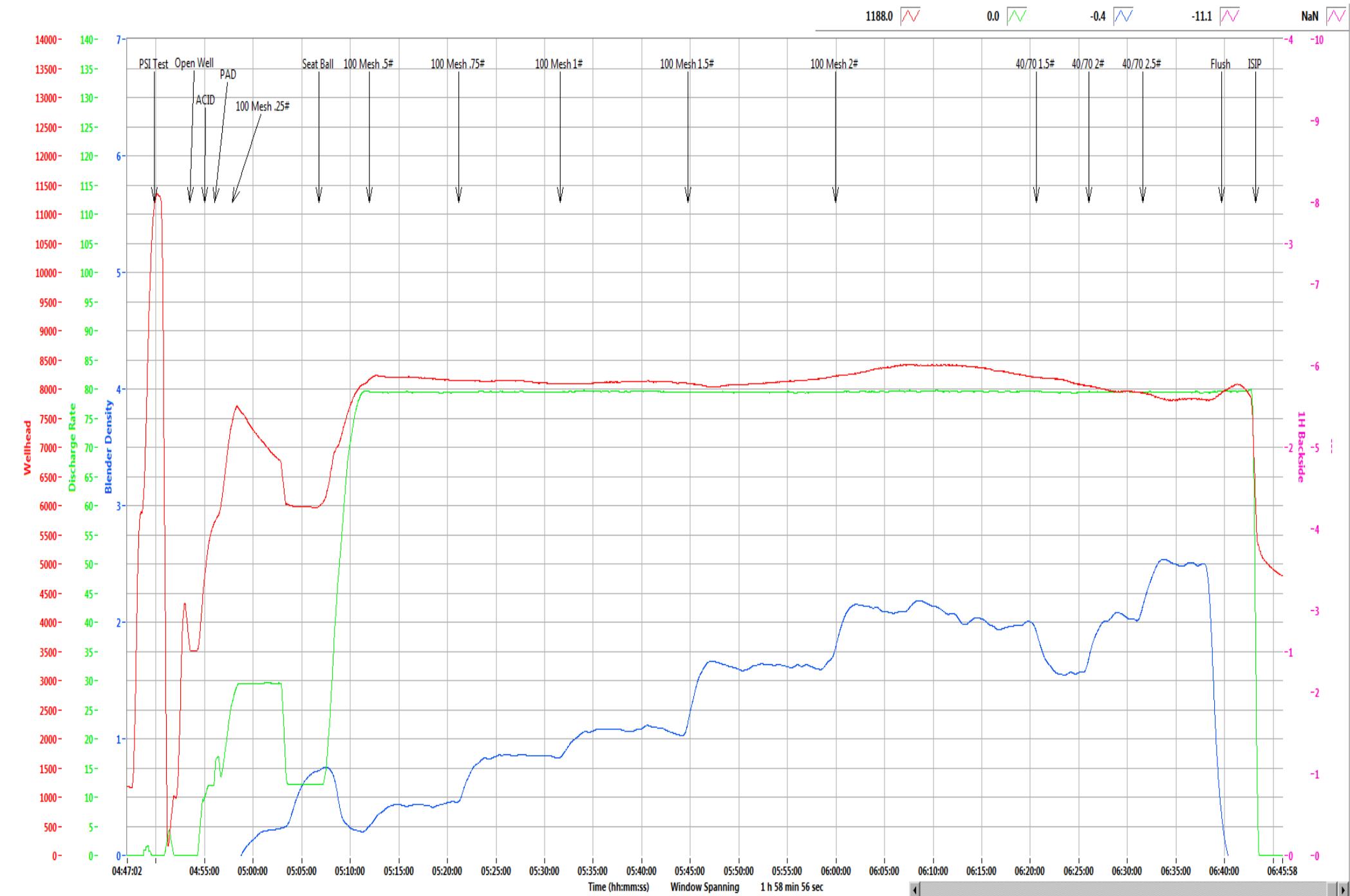
State: WV
County: Monongahela
Operator: Stetson/Jeremy
PO/AFE: 100347-604

(Print Name) Rob Gwge Customer Rep: Customer Signature: KHawg

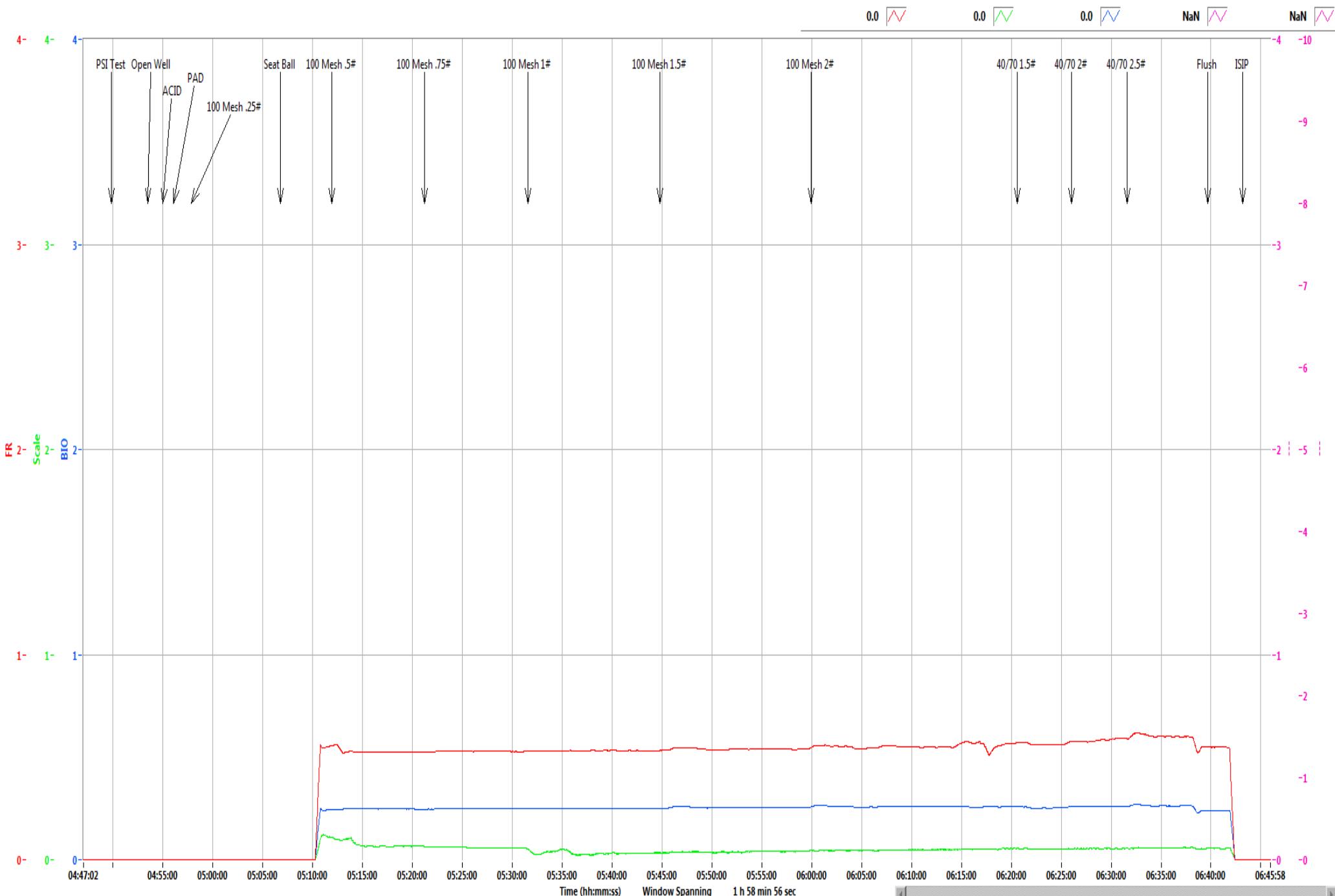


NNE
Boggess 9H
Stage 44
Producers Service Corp.

Post Stage Report
August 24, 2019



Refresh Graph



[Refresh Graph](#)

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 44 |
| Date: | 8/24/19 |
| OWP (psi): | 3,508 |
| Starting Time | 4:53 AM |
| Ending Time | 6:43 AM |
| Pump Time (hr:min) | 01:50 |
| Swap Time (hr:min) | 02:32 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,056 |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 8,145 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,489 |
| Displacement (psi) | 7,958 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,090 |
| Final FG (psi/ft) | 1.07 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,341 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 222 |
| Pad (bbls) | 57 |
| Treatment (bbls) | 7,036 |
| Displacement (bbls) | 255 |
| (Acid Included)Total Fluid (bbls) | 7,353 |
| Dirty Job Total (bbls) | 7,777 |
| 100 Mesh | 300,580 |
| 40/70 | 100,460 |
| Total Proppant (lbs) | 401,040 |
| Total Proppant % | 100.3% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 161 |
| Biocide | 80 |
| Scale | 21 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22937 |
| Date: | 8/24/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 44 |

State: WV
County: Monongahela
Operator: Eck/Kelby
PO/AFE: 100347-604

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 45
Producers Service Corp.

Post Stage Report
August 24, 2019

862.7



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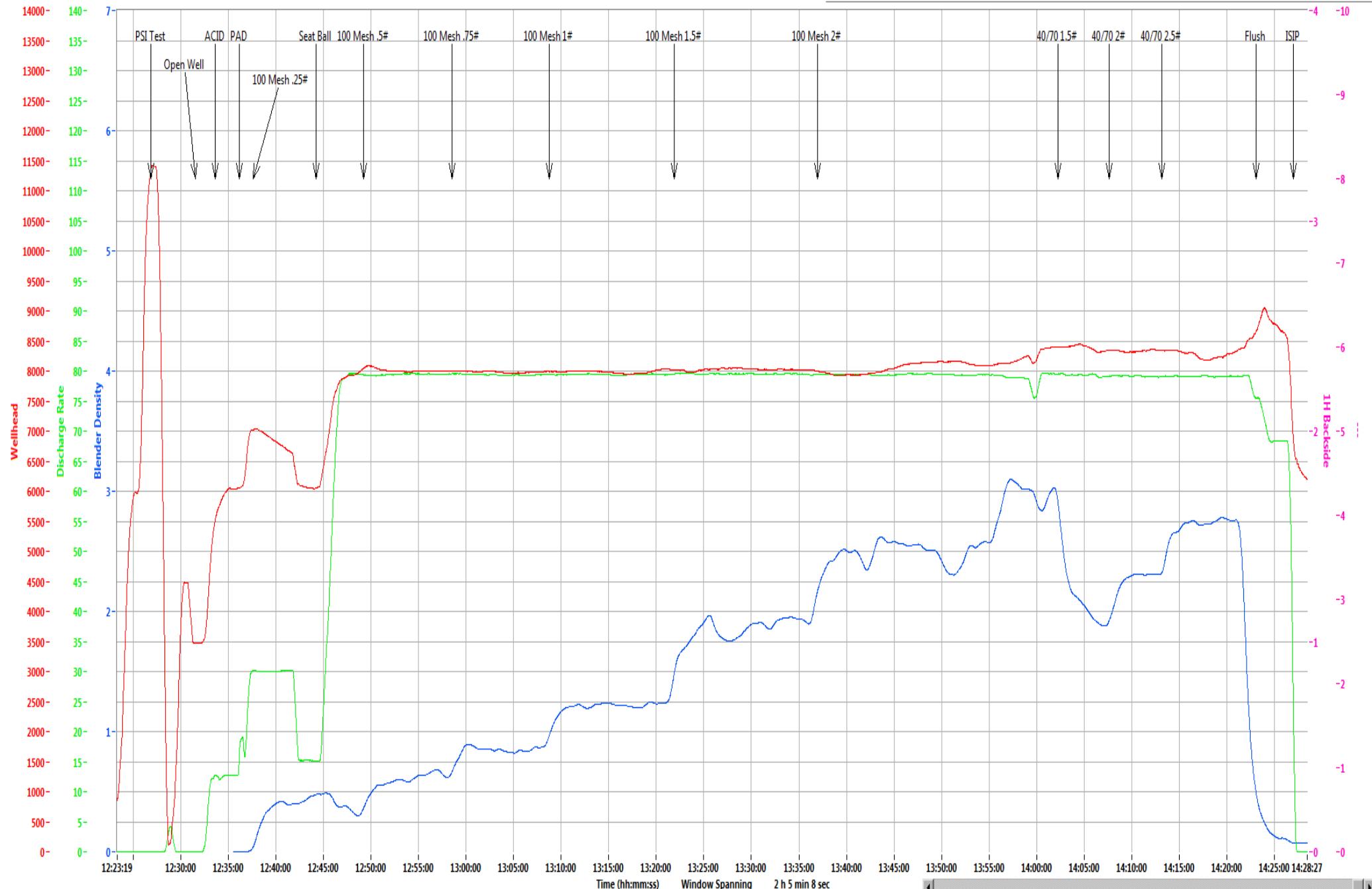
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-49.9



NaN



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 45 |
| Date: | 8/24/19 |
| OWP (psi): | 3,473 |
| Starting Time | 12:26 PM |
| Ending Time | 2:27 PM |
| Pump Time (hr:min) | 02:01 |
| Swap Time (hr:min) | 02:26 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,086 |
| Average Treating Rate (bbl/min) | 79 |
| Average Treating Pressure (psi) | 8,091 |
| Maximum Treating Rate (bbl/min) | 80 |
| Maximum Treating Pressure (psi) | 9,172 |
| Displacement (psi) | 8,707 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,359 |
| Final FG (psi/ft) | 1.22 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,771 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 177 |
| Pad (bbls) | 30 |
| Treatment (bbls) | 7,526 |
| Displacement (bbls) | 248 |
| (Acid Included)Total Fluid (bbls) | 7,807 |
| Dirty Job Total (bbls) | 8,254 |
| 100 Mesh | 299,460 |
| 40/70 | 105,360 |
| Total Proppant (lbs) | 404,820 |
| Total Proppant % | 101.2% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 171 |
| Biocide | 85 |
| Scale | 22 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22939 |
| Date: | 8/24/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 45 |

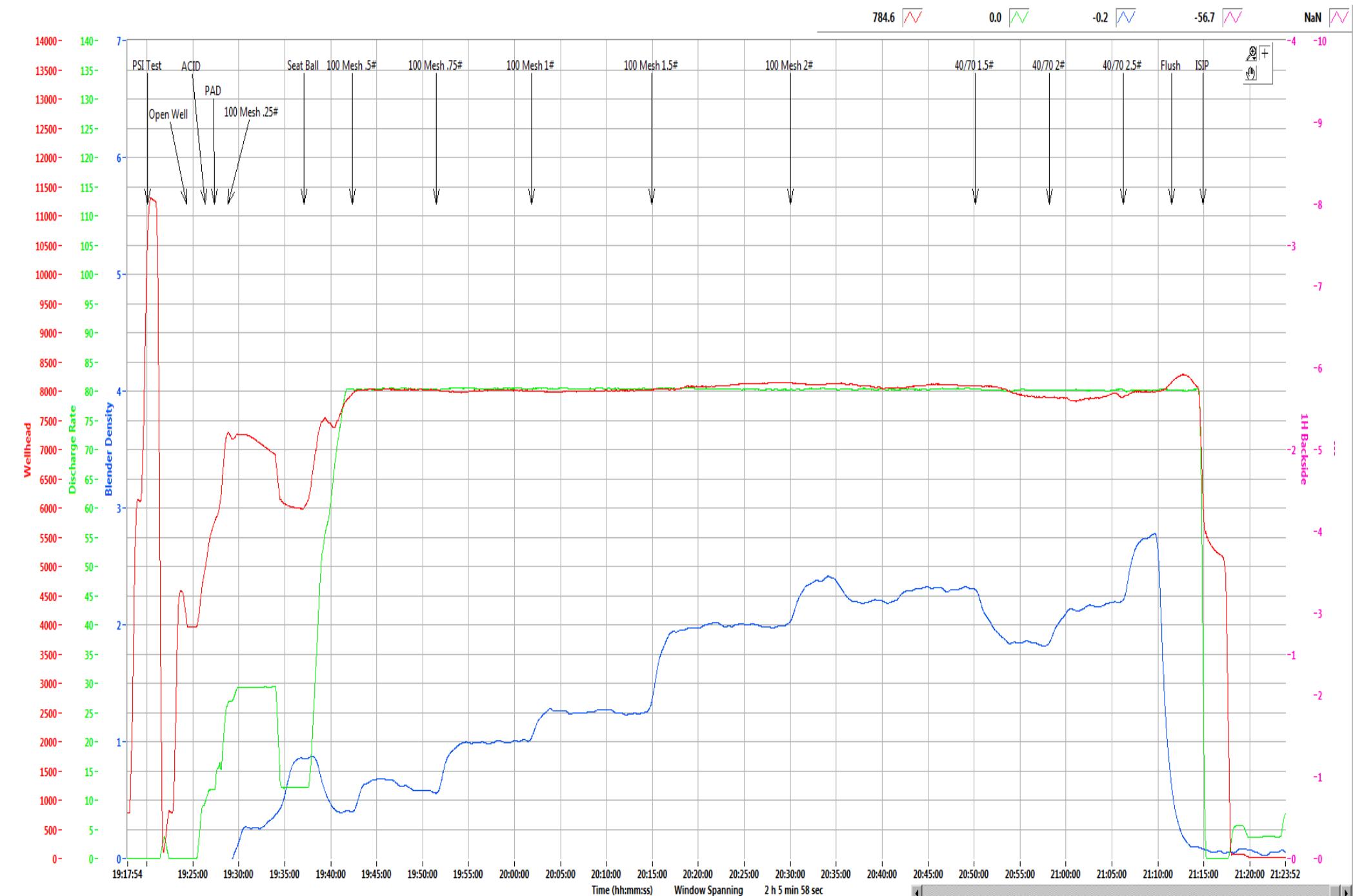
State: WV
County: Monongahela
Operator: Stetson/Jeremy M
PO/AFE: 100347-604

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 46
Producers Service Corp.

Post Stage Report
August 24, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 46 |
| Date: | 8/24/19 |
| OWP (psi): | 3,951 |
| Starting Time | 7:24 PM |
| Ending Time | 9:14 PM |
| Pump Time (hr:min) | 01:50 |
| Swap Time (hr:min) | 01:39 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,136 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,029 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,225 |
| Displacement (psi) | 8,142 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,448 |
| Final FG (psi/ft) | 1.11 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,496 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 162 |
| Pad (bbls) | 52 |
| Treatment (bbls) | 7,201 |
| Displacement (bbls) | 248 |
| (Acid Included)Total Fluid (bbls) | 7,508 |
| Dirty Job Total (bbls) | 7,947 |
| 100 Mesh | 300,440 |
| 40/70 | 102,580 |
| Total Proppant (lbs) | 403,020 |
| Total Proppant % | 100.8% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 165 |
| Biocide | 82 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22941
Date: 8/24/2019
Well Name: Boggess 9H
Stage No.: 46

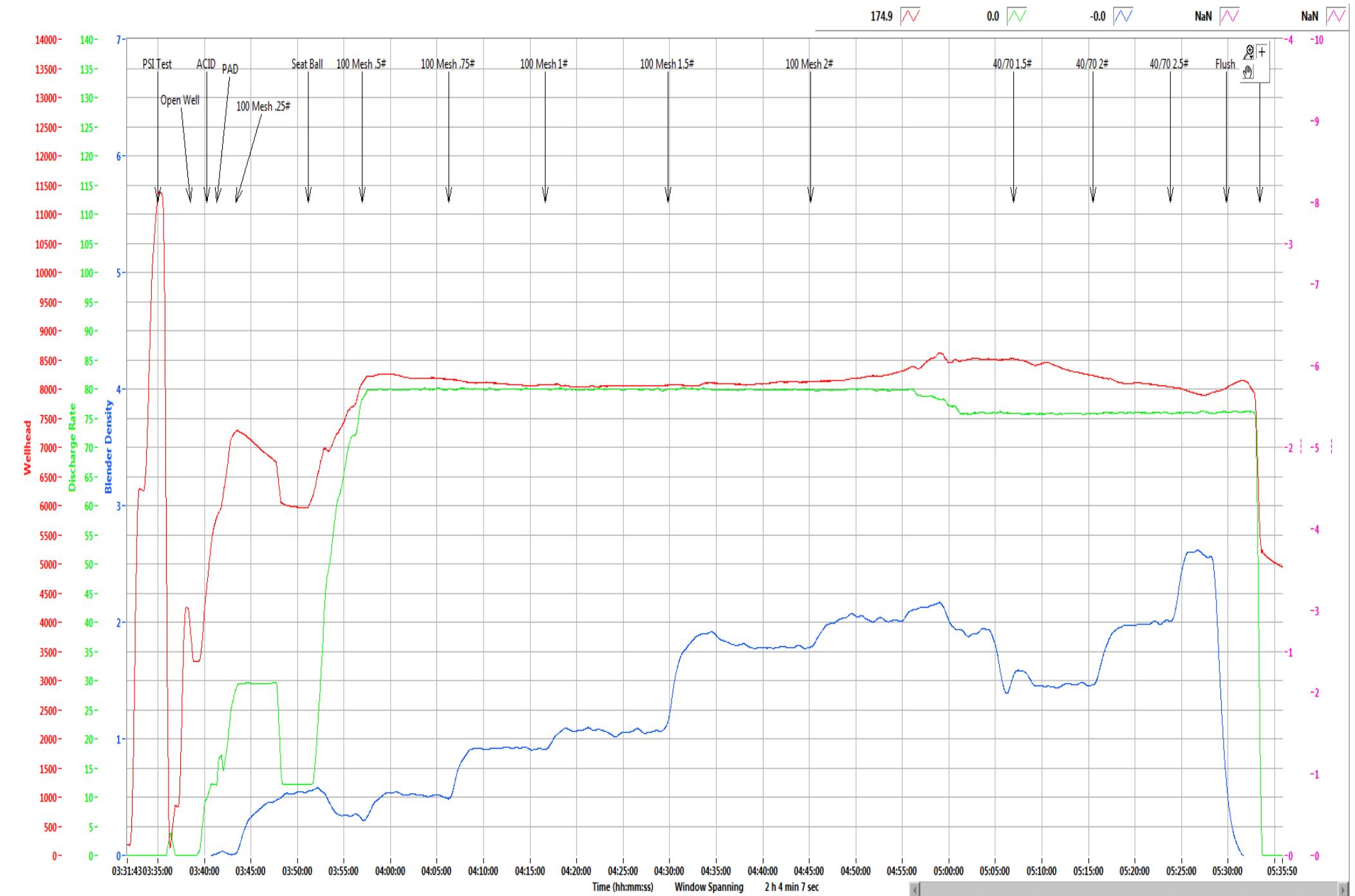
State: WV
County: Monongahela
Operator: Eck/Kelby
PO/AFE: 100347-604

(Print Name)
Customer Re

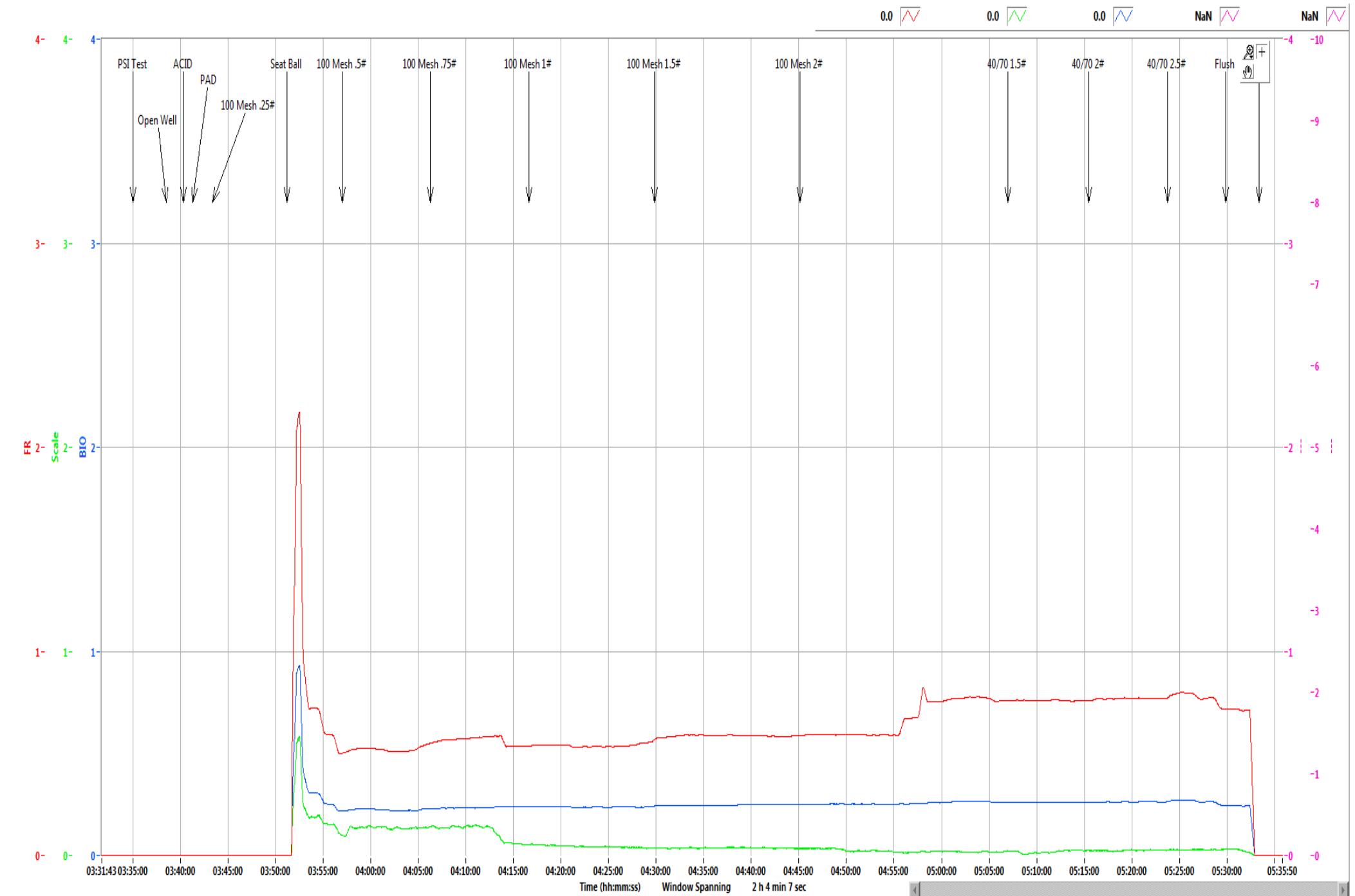


**NNE
Boggess 9H
Stage 47
Producers Service Corp.**

**Post Stage Report
August 25, 2019**



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 47 |
| Date: | 8/25/19 |
| OWP (psi): | 3,335 |
| Starting Time | 3:38 AM |
| Ending Time | 5:33 AM |
| Pump Time (hr:min) | 01:55 |
| Swap Time (hr:min) | 03:04 |
| Starting # Pumps | 16 |
| Finishing # Pumps | 16 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,153 |
| Average Treating Rate (bbl/min) | 78 |
| Average Treating Pressure (psi) | 8,182 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,652 |
| Displacement (psi) | 8,041 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,158 |
| Final FG (psi/ft) | 1.08 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,620 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 183 |
| Pad (bbls) | 64 |
| Treatment (bbls) | 7,320 |
| Displacement (bbls) | 242 |
| (Acid Included)Total Fluid (bbls) | 7,632 |
| Dirty Job Total (bbls) | 8,089 |
| 100 Mesh | 302,120 |
| 40/70 | 102,080 |
| Total Proppant (lbs) | 404,200 |
| Total Proppant % | 101.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 195 |
| Biocide | 84 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp.
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 22943
Date: 8/25/2019
Well Name: Boggess 9H
Stage No.: 47

State: WV
County: Monongahela
Operator: Eck/Kelby
PO/AFE: 100347-604

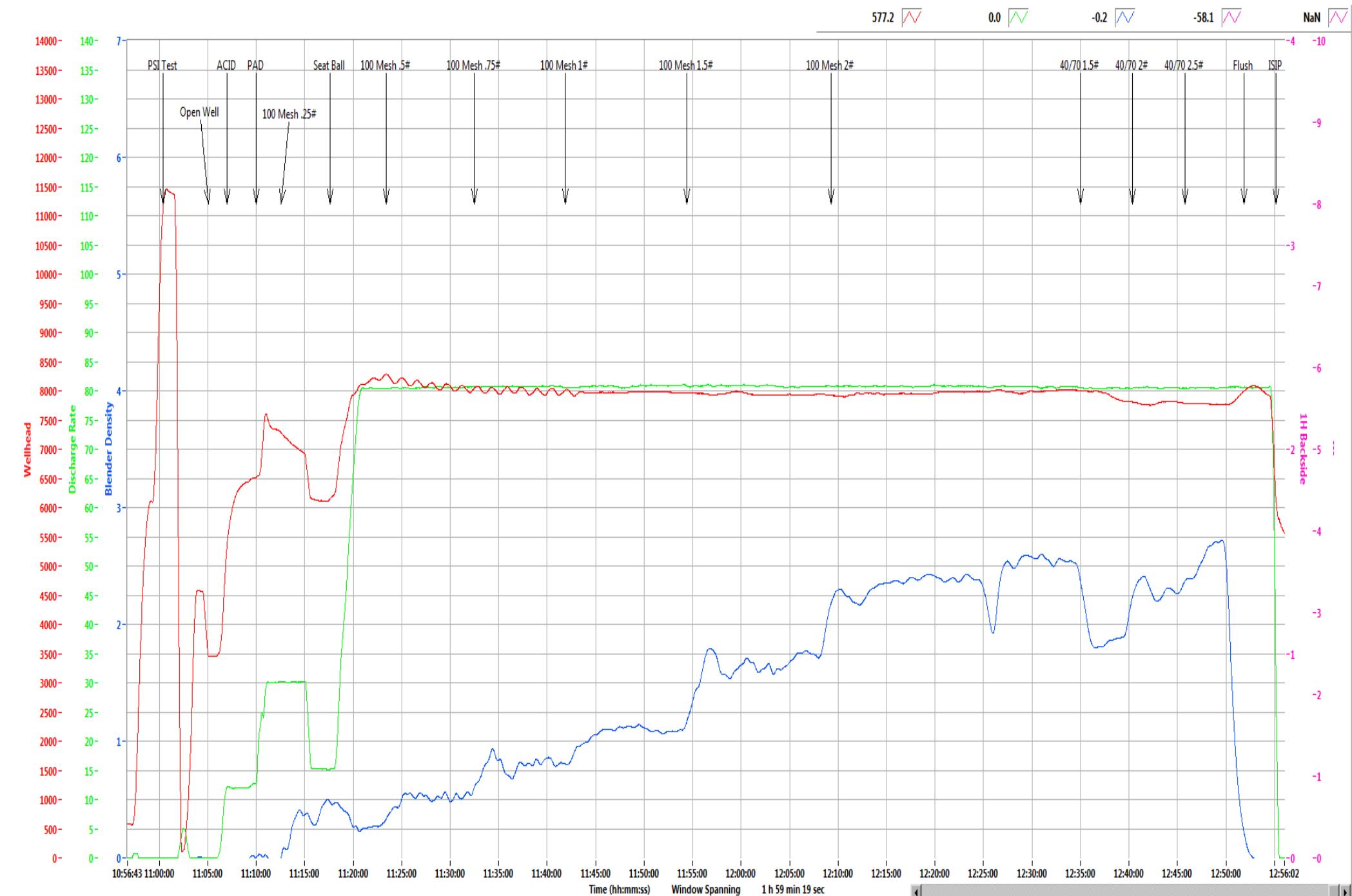
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|---------------------|---------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 500 | GAL | \$ 1.25 | \$ 625.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 1 | GAL | \$ 35.00 | \$ 35.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| <hr/> | | | | | |
| SAND 80/100 | 80/100 white | 3,021.20 | CWT | \$ 5.50 | \$ 16,616.60 |
| SAND 40/70 | 40/70 white | 1,020.80 | CWT | \$ 5.75 | \$ 5,869.60 |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 195 | GAL | \$ 17.75 | \$ 3,461.25 |
| BIOC11219A | Biocide @ 0.25 GPT | 84 | GAL | \$ 16.00 | \$ 1,344.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 18 | GAL | \$ 16.00 | \$ 288.00 |
| <hr/> | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| ARROWS UP SYSTEM | | 202.1 | TON | \$ 55.00 | \$ 11,115.50 |
| <hr/> | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| <hr/> | | | | | |
| Total No Discount \$ 59,154.95 | | | | | |
| 25% Discount Applied \$ 14,788.74 | | | | | |
| Net Stage Total \$ 44,366.21 | | | | | |
| <hr/> | | | | | |
| (Print Name) Customer Rep: | Rob Langer | Customer Signature: | R. Langer | | |

*****Scale used for upstream injection*****

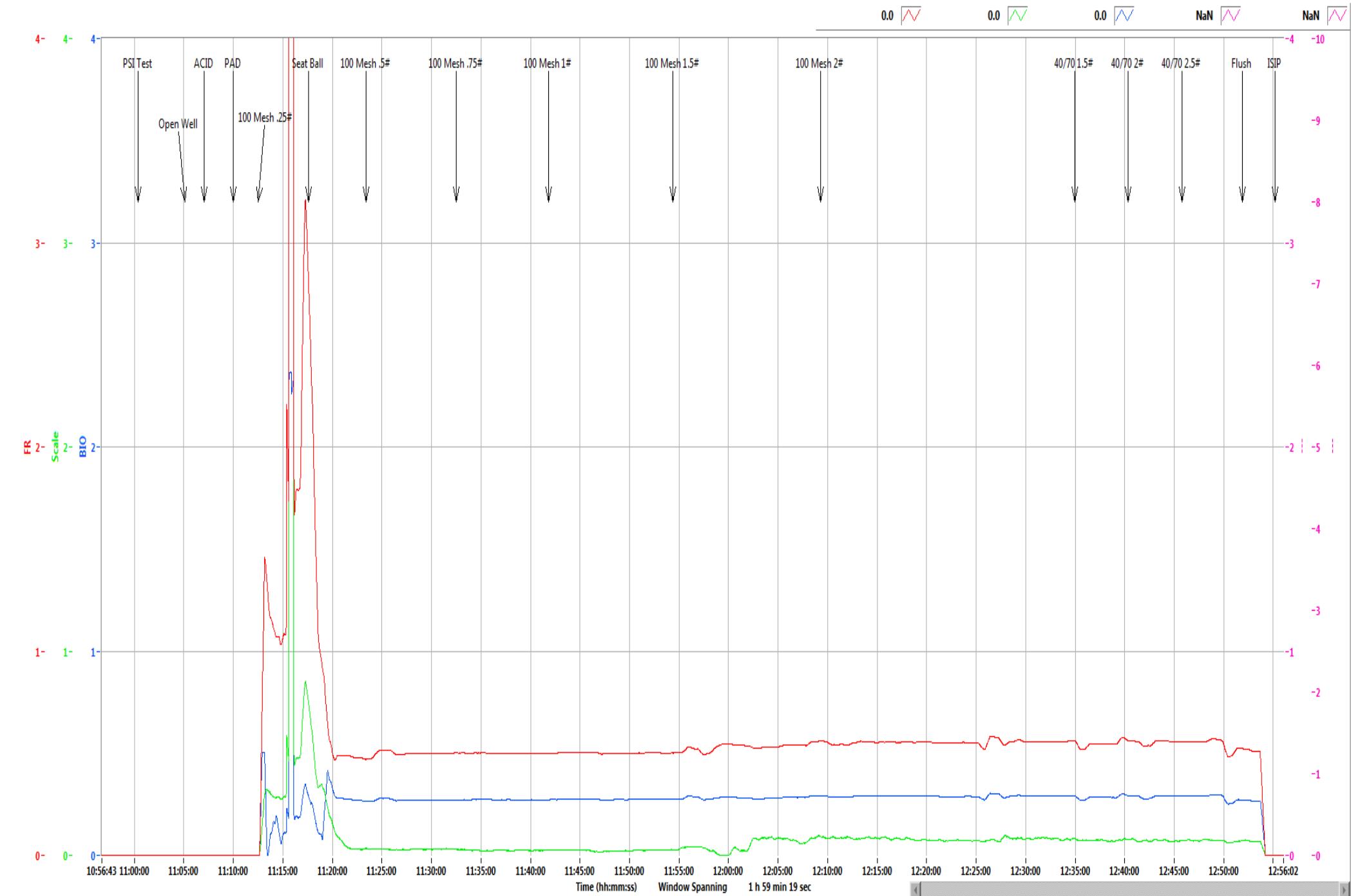


NNE
Boggess 9H
Stage 48
Producers Service Corp.

Post Stage Report
August 25, 2019



Refresh Graph



Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 48 |
| Date: | 8/25/19 |
| OWP (psi): | 3,454 |
| Starting Time | 11:05 AM |
| Ending Time | 12:55 PM |
| Pump Time (hr:min) | 01:50 |
| Swap Time (hr:min) | 01:46 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,244 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,966 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,311 |
| Displacement (psi) | 8,023 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,794 |
| Final FG (psi/ft) | 1.15 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,508 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 160 |
| Pad (bbls) | 73 |
| Treatment (bbls) | 7,229 |
| Displacement (bbls) | 238 |
| (Acid Included)Total Fluid (bbls) | 7,544 |
| Dirty Job Total (bbls) | 7,980 |
| 100 Mesh | 304,140 |
| 40/70 | 99,920 |
| Total Proppant (lbs) | 404,060 |
| Total Proppant % | 101.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 163 |
| Biocide | 82 |
| Scale | 21 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22945 |
| Date: | 8/25/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 48 |

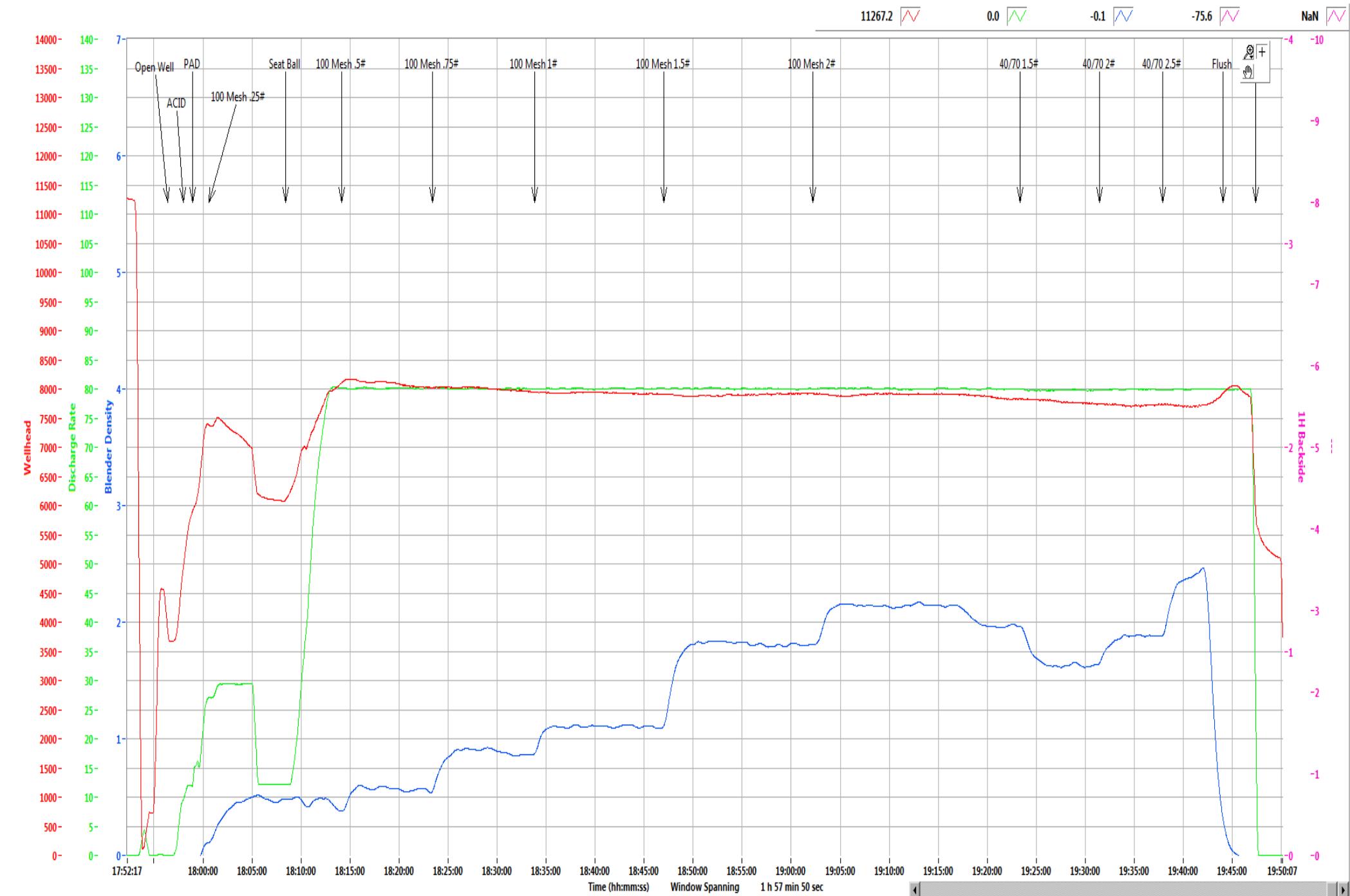
State: WV
County: Monongahela
Operator: Stetson/Moon
PO/AFE: 100347-604

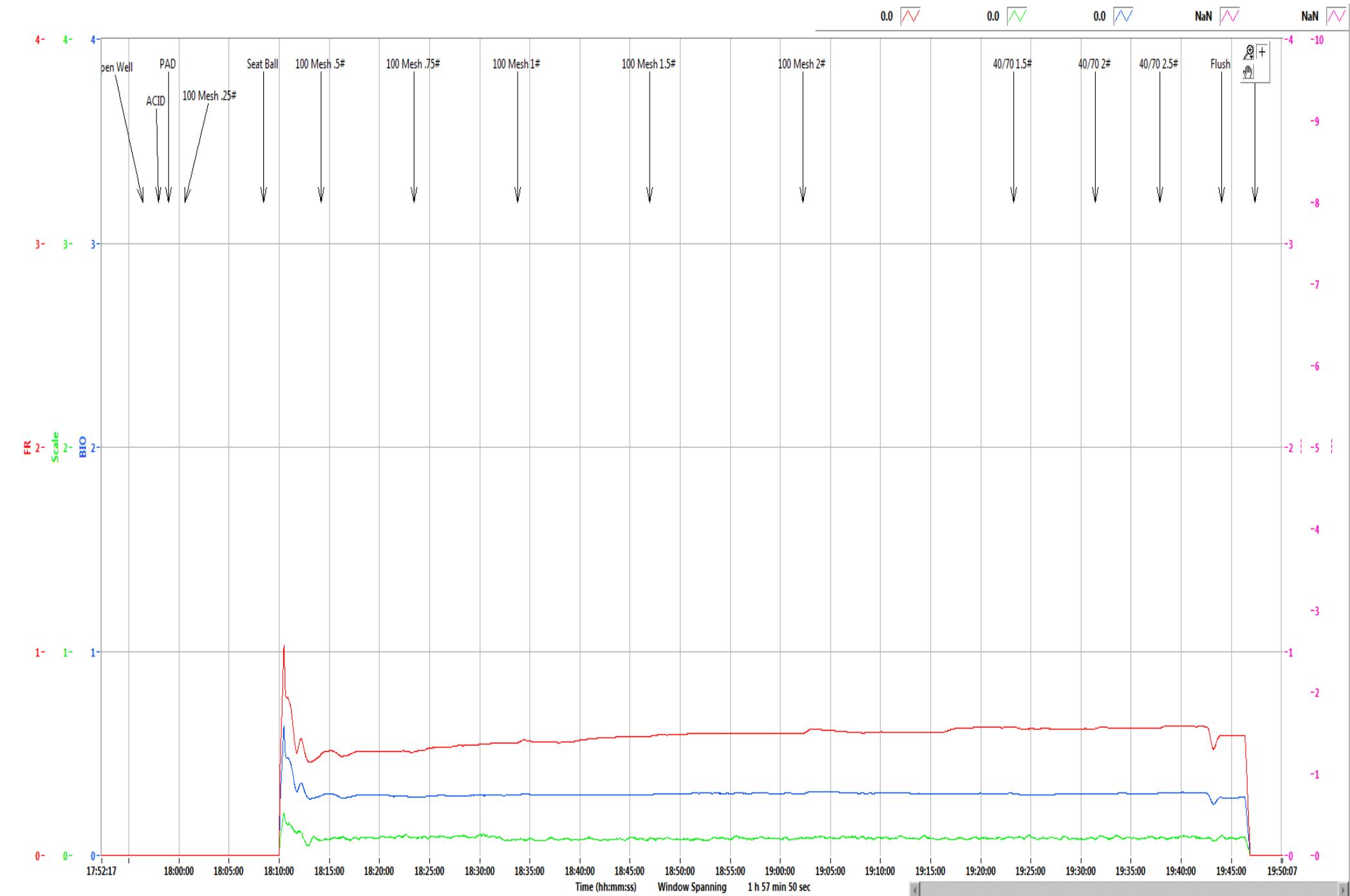
(Print Name)
Customer Re



**NNE
Boggess 9H
Stage 49
Producers Service Corp.**

**Post Stage Report
August 25, 2019**





Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 49 |
| Date: | 8/25/19 |
| OWP (psi): | 3,662 |
| Starting Time | 5:56 PM |
| Ending Time | 7:47 PM |
| Pump Time (hr:min) | 01:51 |
| Swap Time (hr:min) | 01:39 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,239 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,915 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,227 |
| Displacement (psi) | 7,916 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,539 |
| Final FG (psi/ft) | 1.12 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,903 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 98 |
| Pad (bbls) | 34 |
| Treatment (bbls) | 7,246 |
| Displacement (bbls) | 239 |
| (Acid Included)Total Fluid (bbls) | 7,915 |
| Dirty Job Total (bbls) | 8,227 |
| 100 Mesh | 309,980 |
| 40/70 | 97,880 |
| Total Proppant (lbs) | 407,860 |
| Total Proppant % | 102.0% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 165 |
| Biocide | 80 |
| Scale | 16 |

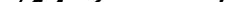
Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22947 |
| Date: | 8/25/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 49 |

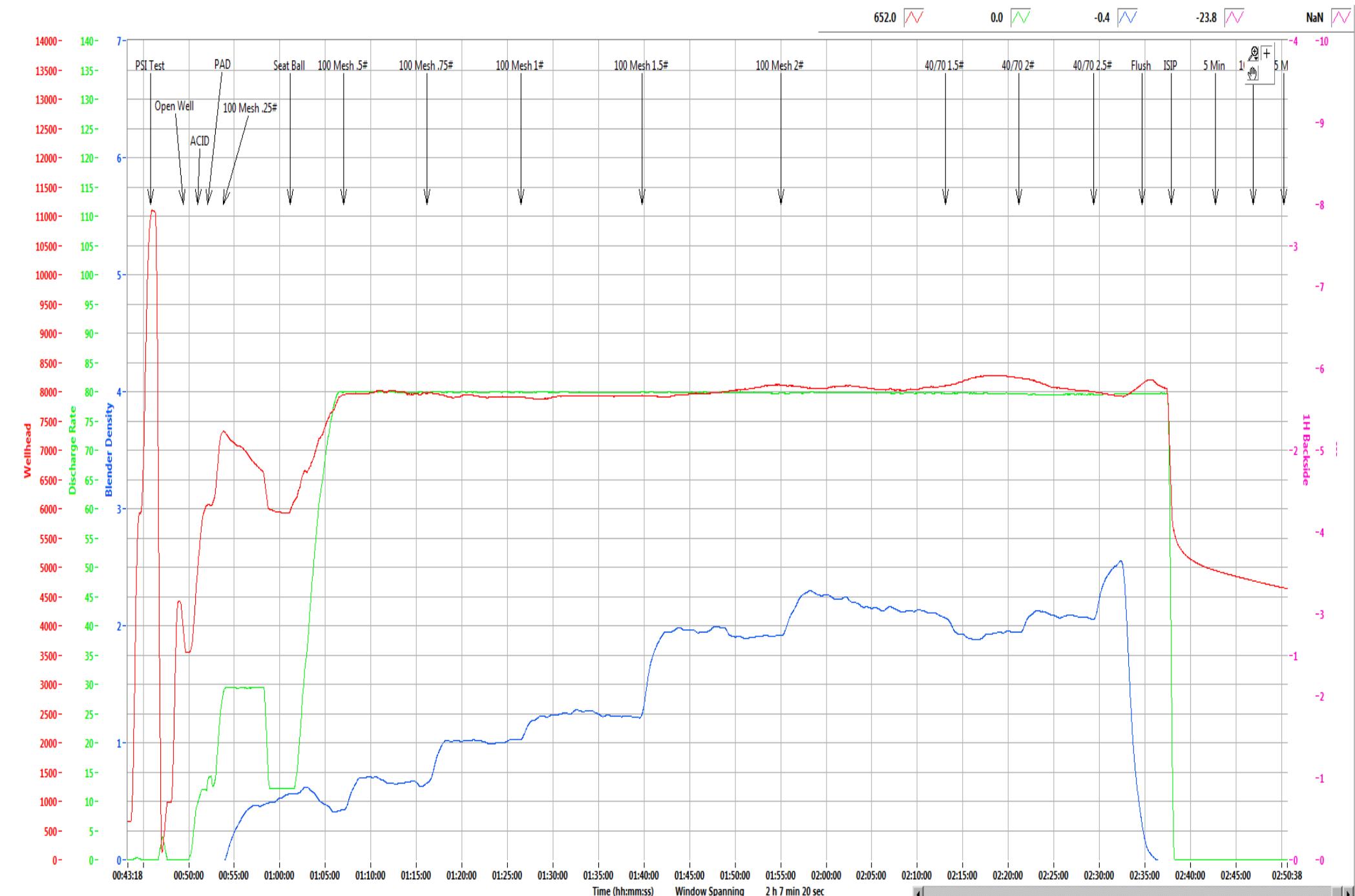
State: WV
County: Monongahela
Operator: Eck/Kelsby
PO/AFE: 100347-604

(Print Name) Customer Rep: Rob Gangs Customer Signature: 



NNE
Boggess 9H
Stage 50
Producers Service Corp.

Post Stage Report
August 26, 2019



Refresh Graph



[Refresh Graph](#)

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 50 |
| Date: | 8/25/19 |
| OWP (psi): | 3,548 |
| Starting Time | 12:49 AM |
| Ending Time | |
| Pump Time (hr:min) | |
| Swap Time (hr:min) | 01:44 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,127 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 8,018 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,330 |
| Displacement (psi) | 8,126 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,553 |
| Final FG (psi/ft) | 1.12 |
| 5 Minute Leakoff Pressure (psi) | 4,934 |
| 5 Minute Leakoff Rate (psi/min) | 124 |
| 10 Minute Leakoff Pressure (psi) | 4,759 |
| 10 Minute Leakoff Rate (psi/min) | 79 |
| 15 Minute Leakoff Pressure (psi) | 4,640 |
| 15 Minute Leakoff Rate (psi/min) | 61 |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,356 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 141 |
| Pad (bbls) | 40 |
| Treatment (bbls) | 7,090 |
| Displacement (bbls) | 232 |
| (Acid Included)Total Fluid (bbls) | 7,368 |
| Dirty Job Total (bbls) | 7,769 |
| 100 Mesh | 301,800 |
| 40/70 | 100,900 |
| Total Proppant (lbs) | 402,700 |
| Total Proppant % | 100.7% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 162 |
| Biocide | 82 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 22949 |
| Date: | 8/26/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 50 |

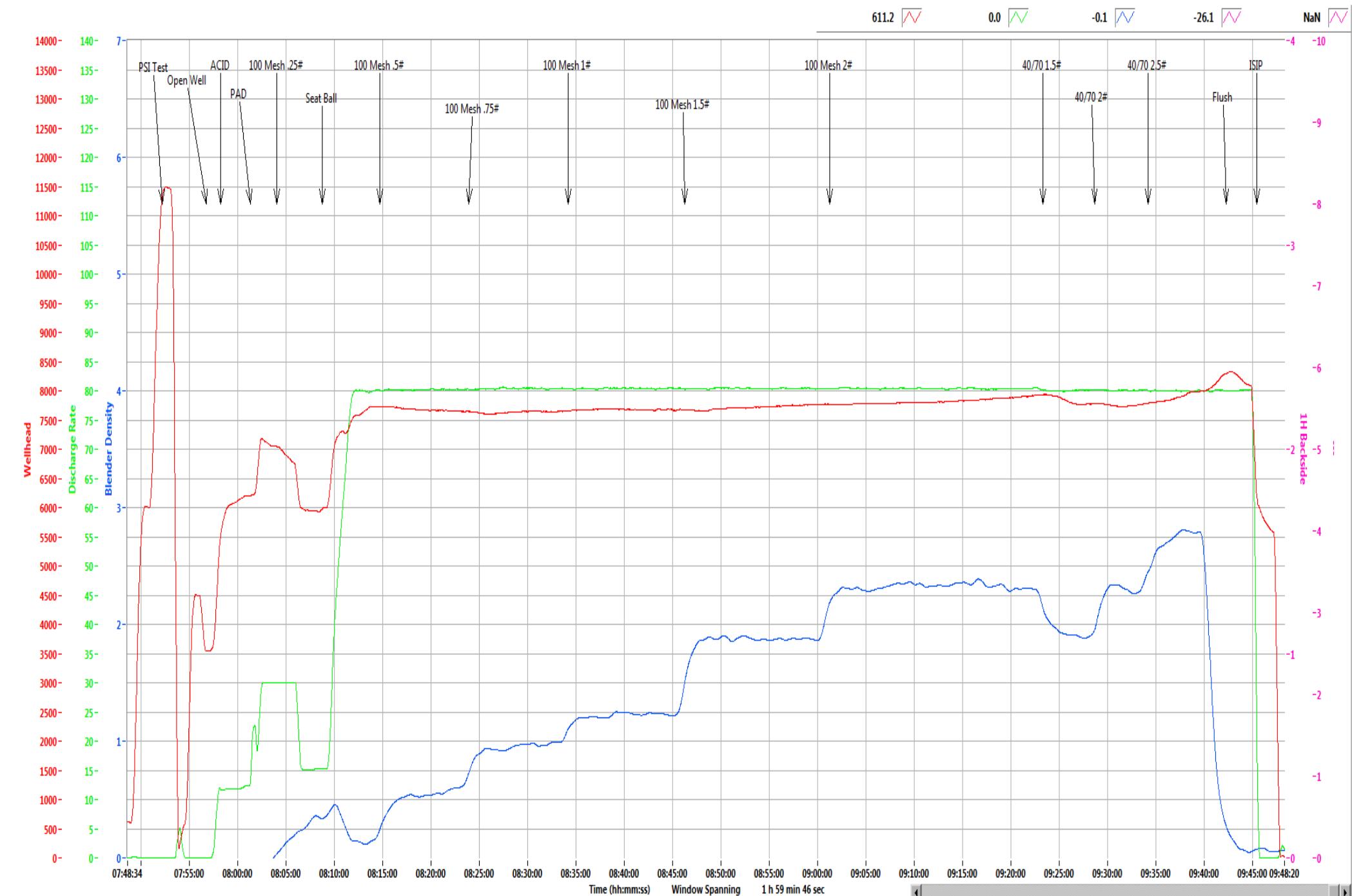
State: WV
County: Monongahela
Operator: Eck/Kelsby
PO/AFE: 100347-604

(Print Name)
Customer Re

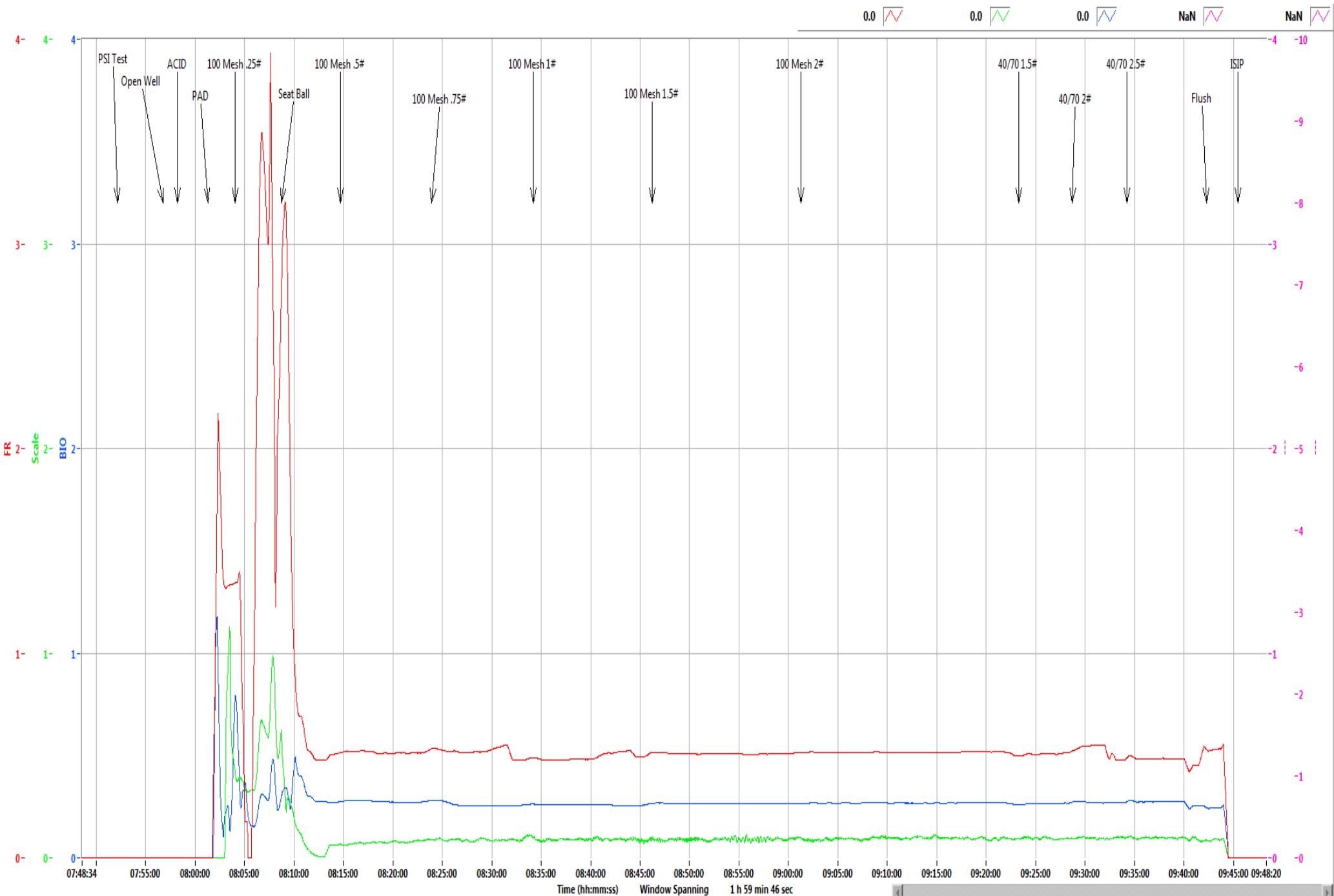


NNE
Boggess 9H
Stage 51
Producers Service Corp.

Post Stage Report
August 26, 2019



Refresh Graph



[Refresh Graph](#)

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 51 |
| Date: | 8/26/19 |
| OWP (psi): | 3,547 |
| Starting Time | 7:56 AM |
| Ending Time | 9:45 AM |
| Pump Time (hr:min) | 01:49 |
| Swap Time (hr:min) | 01:40 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,058 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,751 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,380 |
| Displacement (psi) | 8,323 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 6,054 |
| Final FG (psi/ft) | 1.19 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,395 |
| Acid 7.5% HCL (gal) | 1,500 |
| Wireline Pump Down (bbls) | 132 |
| Pad (bbls) | 38 |
| Treatment (bbls) | 7,164 |
| Displacement (bbls) | 229 |
| (Acid Included)Total Fluid (bbls) | 7,431 |
| Dirty Job Total (bbls) | 7,866 |
| 100 Mesh | 301,640 |
| 40/70 | 98,880 |
| Total Proppant (lbs) | 400,520 |
| Total Proppant % | 100.1% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 156 |
| Biocide | 79 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 23001 |
| Date: | 8/26/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 51 |

State: WV
County: Monongahela
Operator: Moon/Tilton
PO/AFE: 100347-604

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 52
Producers Service Corp.

Post Stage Report
August 26, 2019

492.4



0.0



-0.2



-58.1



NaN



-4



-10



-9



-8



-7



-6



-5



-4



-3



-2



-1



-0



-1



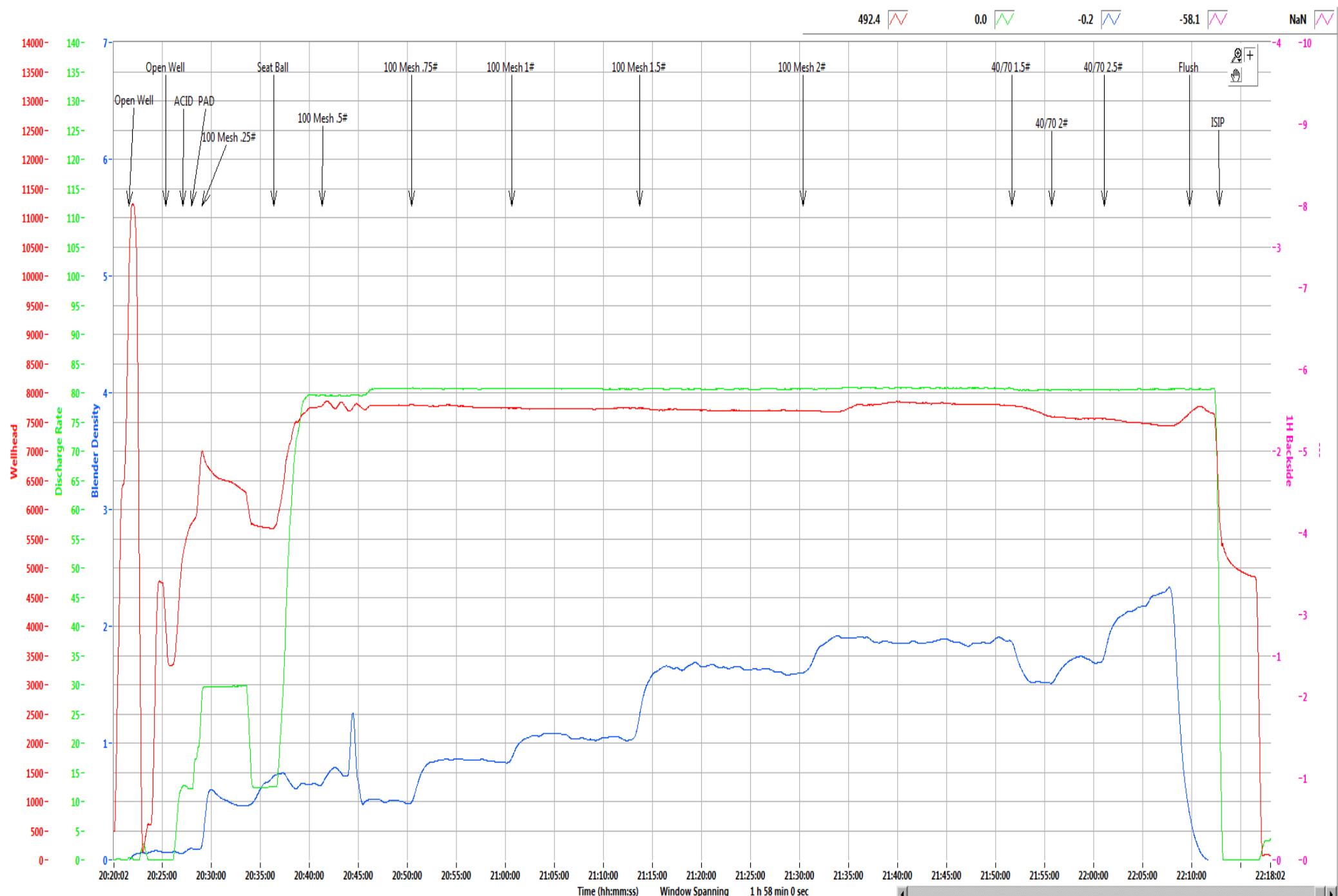
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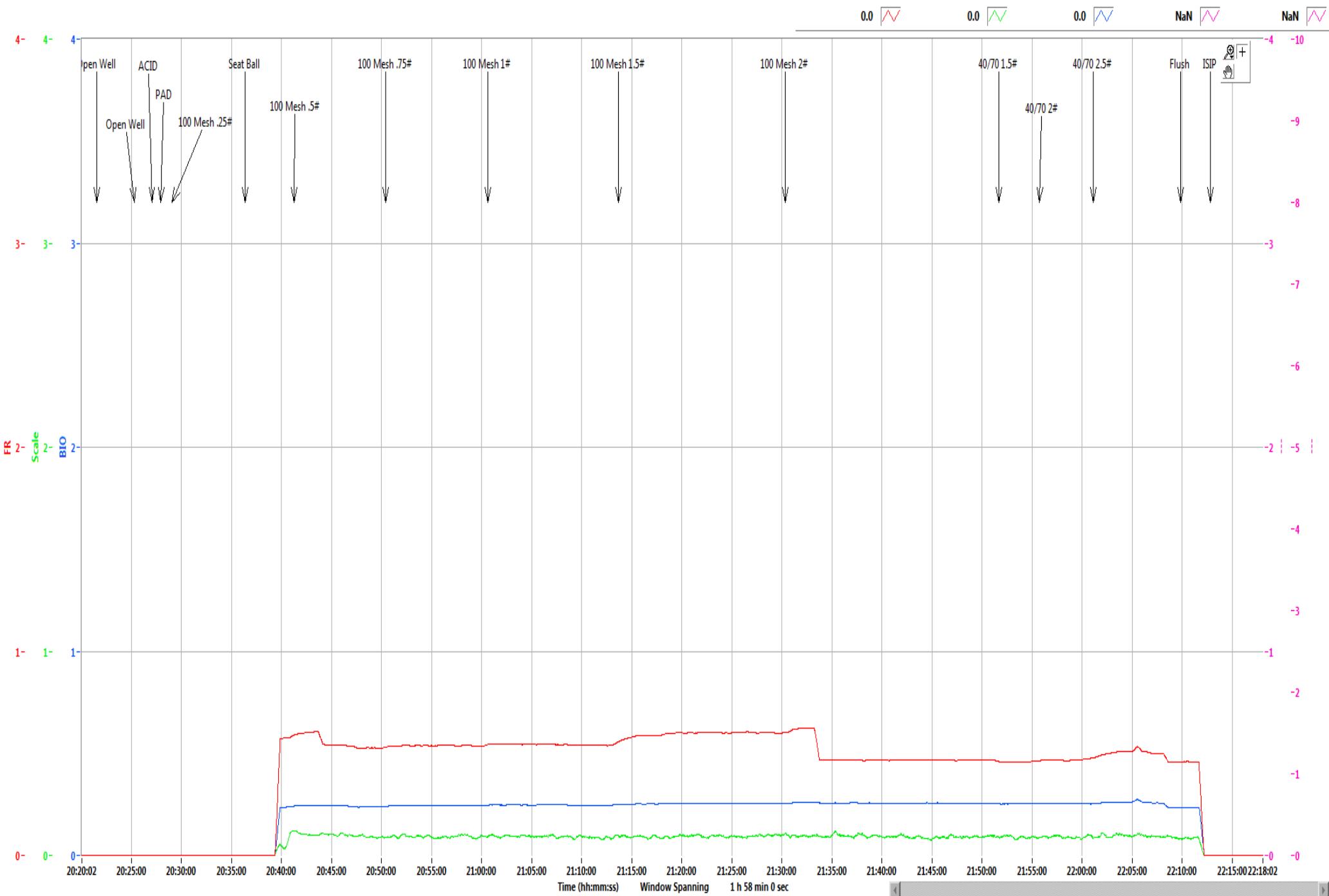
-1



-0



Refresh Graph



[Refresh Graph](#)

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 52 |
| Date: | 8/26/19 |
| OWP (psi): | 3,336 |
| Starting Time | 8:25 PM |
| Ending Time | 10:12 PM |
| Pump Time (hr:min) | 01:47 |
| Swap Time (hr:min) | 07:29 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,805 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 7,713 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 7,918 |
| Displacement (psi) | 7,724 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,530 |
| Final FG (psi/ft) | 1.12 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,433 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 100 |
| Pad (bbls) | 42 |
| Treatment (bbls) | 7,180 |
| Displacement (bbls) | 218 |
| (Acid Included)Total Fluid (bbls) | 7,445 |
| Dirty Job Total (bbls) | 7,885 |
| 100 Mesh | 304,240 |
| 40/70 | 94,820 |
| Total Proppant (lbs) | 399,060 |
| Total Proppant % | 99.8% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 160 |
| Biocide | 80 |
| Scale | 18 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 23003 |
| Date: | 8/26/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 52 |

State: WV
County: Monongahela
Operator: Brad/Joe/Dunny
PO/AFE: 100347-604

(Print Name)
Customer Re



NNE
Boggess 9H
Stage 53
Producers Service Corp.

Post Stage Report
August 27, 2019

6305.3



0.0



-0.4



-74.7



NaN



-4

-10

-9

-8

-7

-6

-5

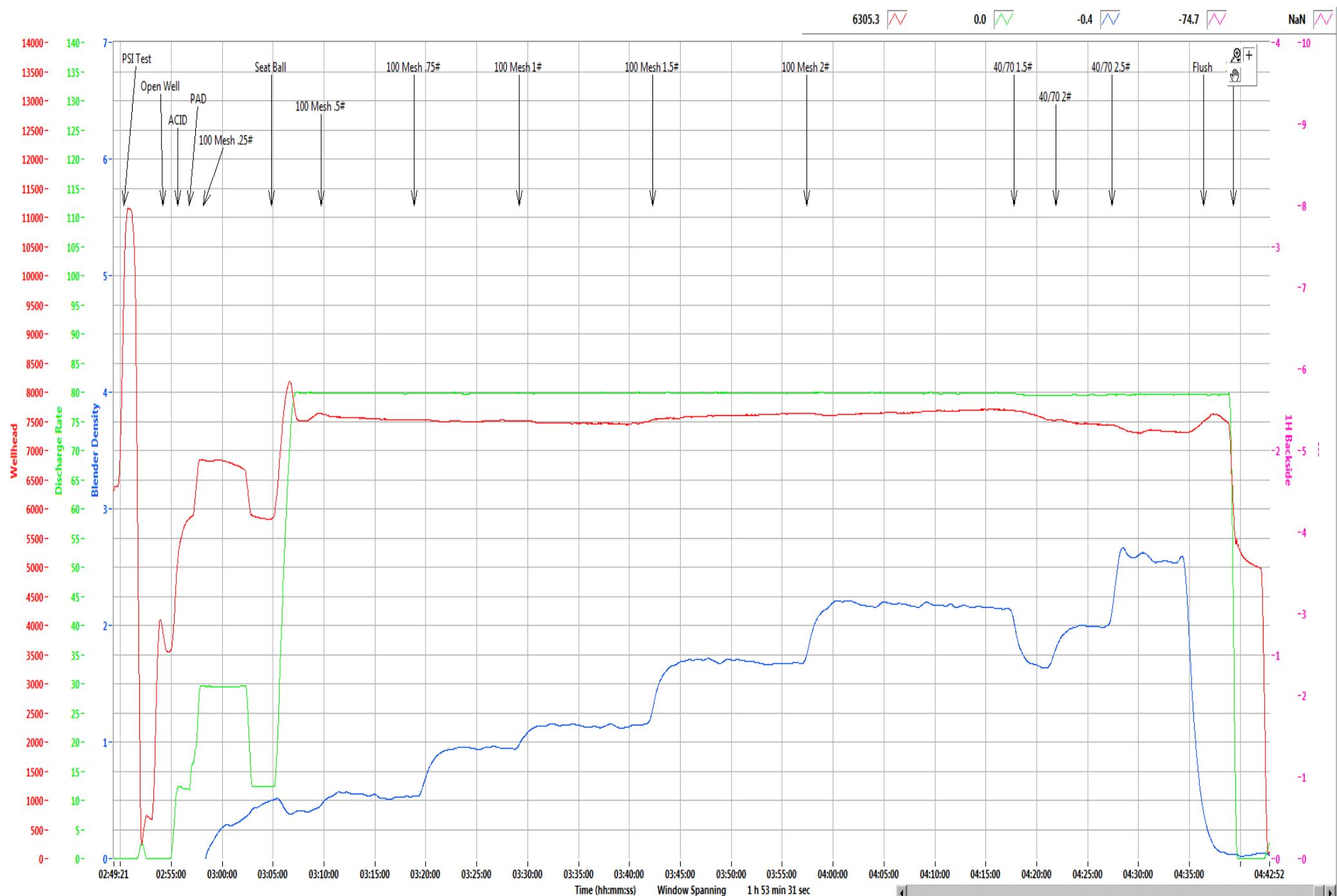
-4

-3

-2

-1

-0



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 53 |
| Date: | 8/27/19 |
| OWP (psi): | 3,560 |
| Starting Time | 2:54 AM |
| Ending Time | 4:39 AM |
| Pump Time (hr:min) | 01:45 |
| Swap Time (hr:min) | 01:42 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 5,908 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,545 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,271 |
| Displacement (psi) | 7,540 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,334 |
| Final FG (psi/ft) | 1.10 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,224 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 75 |
| Pad (bbls) | 52 |
| Treatment (bbls) | 6,966 |
| Displacement (bbls) | 214 |
| (Acid Included)Total Fluid (bbls) | 7,236 |
| Dirty Job Total (bbls) | 7,666 |
| 100 Mesh | 298,680 |
| 40/70 | 107,080 |
| Total Proppant (lbs) | 405,760 |
| Total Proppant % | 101.4% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 152 |
| Biocide | 75 |
| Scale | 16 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 23005 |
| Date: | 8/27/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 53 |

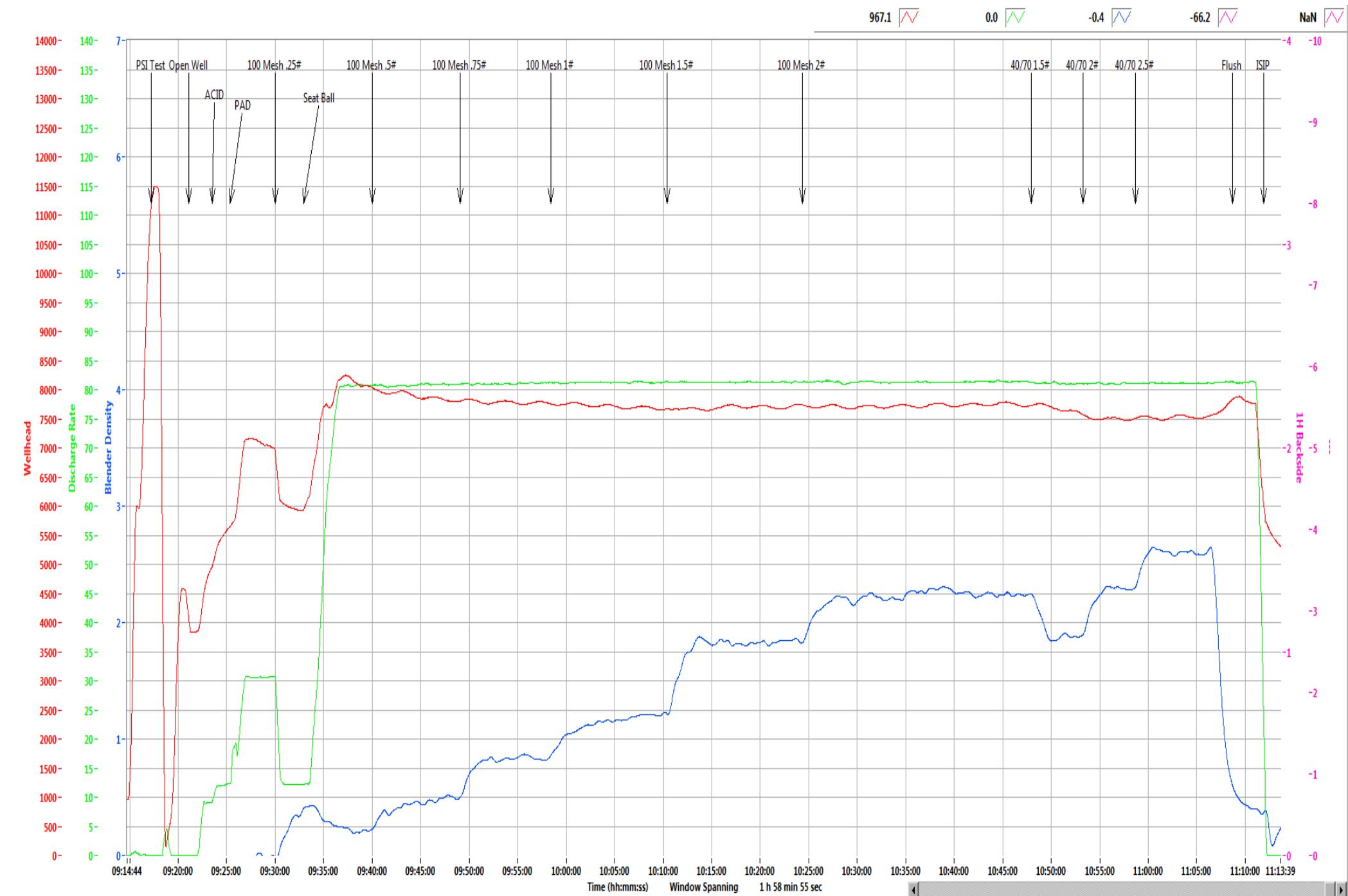
State: WV
County: Monongahela
Operator: Brad/Joe/Dunny
PO/AFE: 100347-604

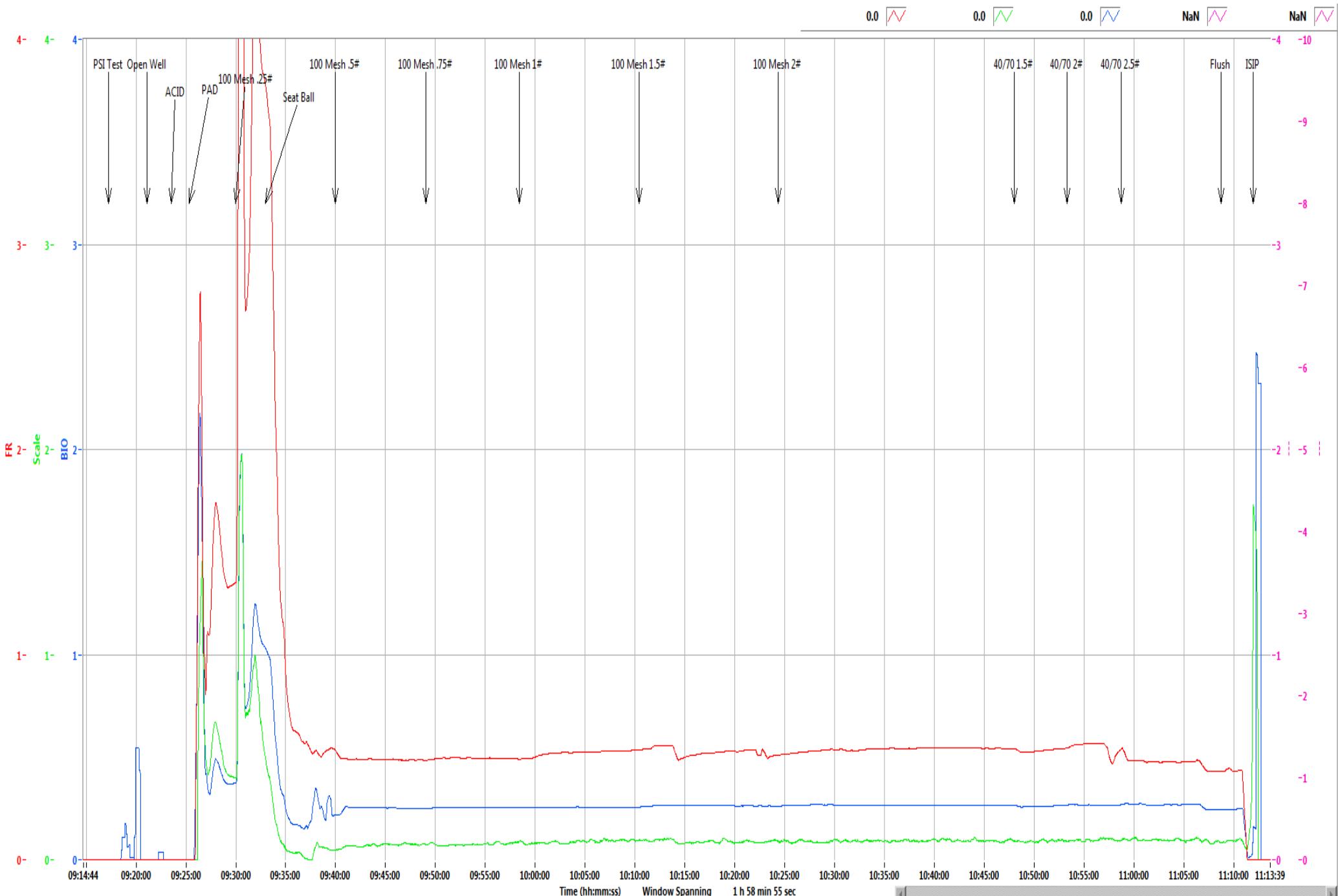
(Print Name)
Customer Re



NNE
Boggess 9H
Stage 54
Producers Service Corp.

Post Stage Report
August 27, 2019





Refresh Graph

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 54 |
| Date: | 8/27/19 |
| OWP (psi): | 3,832 |
| Starting Time | 9:17 AM |
| Ending Time | 11:11 AM |
| Pump Time (hr:min) | 01:54 |
| Swap Time (hr:min) | 01:33 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,152 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 7,733 |
| Maximum Treating Rate (bbl/min) | 82 |
| Maximum Treating Pressure (psi) | 8,280 |
| Displacement (psi) | 7,865 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,880 |
| Final FG (psi/ft) | 1.17 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,590 |
| Acid 7.5% HCL (gal) | 1,000 |
| Wireline Pump Down (bbls) | 54 |
| Pad (bbls) | 132 |
| Treatment (bbls) | 7,260 |
| Displacement (bbls) | 217 |
| (Acid Included)Total Fluid (bbls) | 7,614 |
| Dirty Job Total (bbls) | 8,079 |
| 100 Mesh | 299,720 |
| 40/70 | 105,020 |
| Total Proppant (lbs) | 404,740 |
| Total Proppant % | 101.2% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 155 |
| Biocide | 81 |
| Scale | 21 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp.
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 23007
Date: 8/27/2019
Well Name: Boggess 9H
Stage No.: 54

State: WV
County: Monongahela
Operator: Jeremy T/Jeremy M
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1000 | GAL | \$ 1.25 | \$ 1,250.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | '2 | GAL | \$ 35.00 | \$ 70.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 2,997.20 | CWT | \$ 5.50 | \$ 16,484.60 |
| SAND 40/70 | 40/70 white | 1,050.20 | CWT | \$ 5.75 | \$ 6,038.65 |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 155 | GAL | \$ 17.75 | \$ 2,751.25 |
| BIOC11219A | Biocide @ 0.25 GPT | 81 | GAL | \$ 16.00 | \$ 1,296.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 21 | GAL | \$ 16.00 | \$ 336.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| ARROWS UP SYSTEM | | 202.37 | TON | \$ 55.00 | \$ 11,130.35 |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| Total No Discount \$ 59,156.85 | | | | | |
| 25% Discount Applied \$ 14,789.21 | | | | | |
| Net Stage Total \$ 44,367.64 | | | | | |

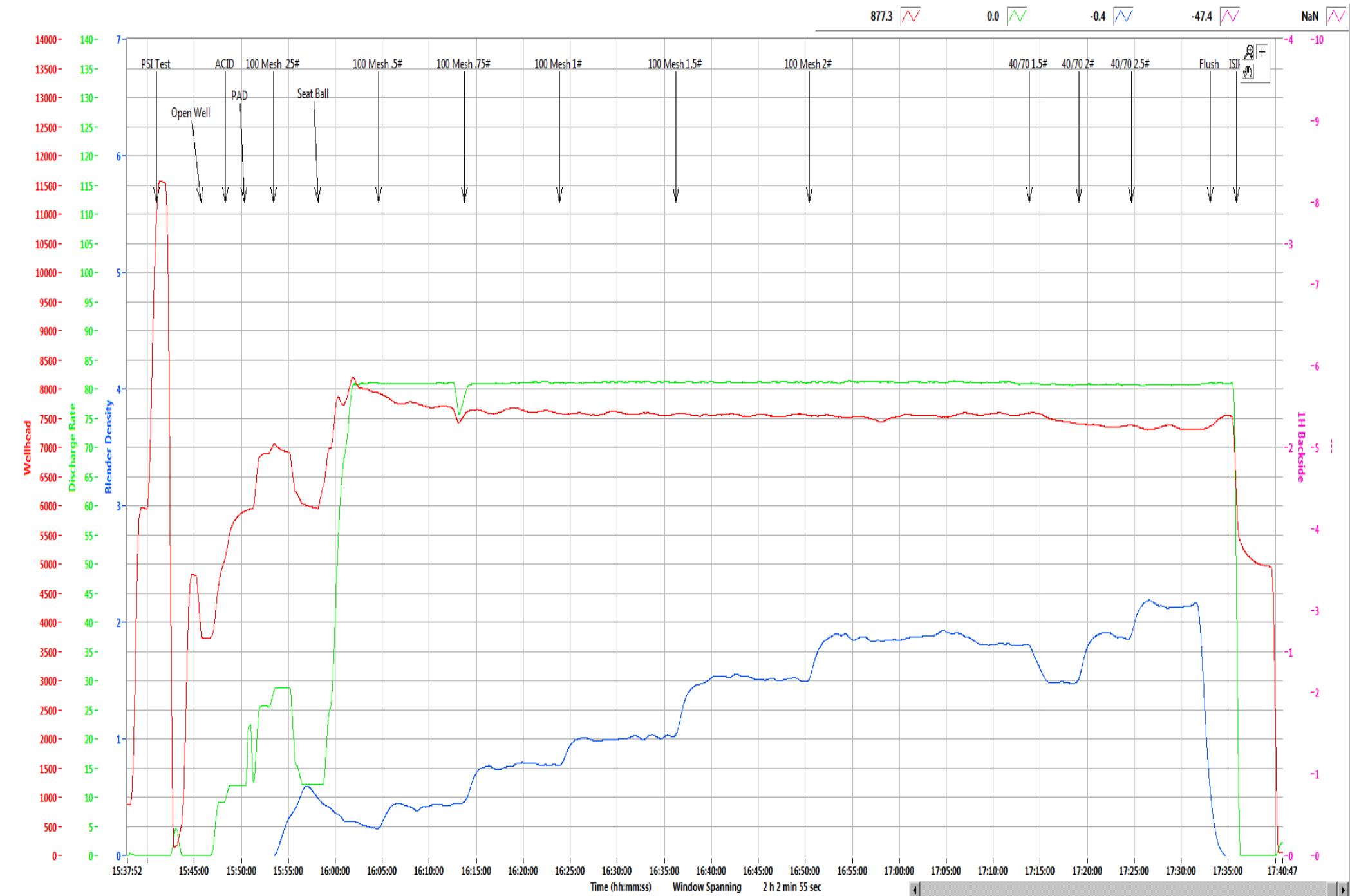
(Print Name)
Customer Rep: Kevin Hudson

Customer Signature: Kevin Hudson



NNE
Boggess 9H
Stage 55
Producers Service Corp.

Post Stage Report
August 27, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 55 |
| Date: | 8/27/19 |
| OWP (psi): | 3,733 |
| Starting Time | 3:40 PM |
| Ending Time | 5:35 PM |
| Pump Time (hr:min) | 01:55 |
| Swap Time (hr:min) | 01:12 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,365 |
| Average Treating Rate (bbl/min) | 81 |
| Average Treating Pressure (psi) | 764 |
| Maximum Treating Rate (bbl/min) | 83 |
| Maximum Treating Pressure (psi) | 8,272 |
| Displacement (psi) | 7,397 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,851 |
| Final FG (psi/ft) | 1.16 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,498 |
| Acid 7.5% HCL (gal) | 1,000 |
| Wireline Pump Down (bbls) | 52 |
| Pad (bbls) | 73 |
| Treatment (bbls) | 7,238 |
| Displacement (bbls) | 207 |
| (Acid Included)Total Fluid (bbls) | 7,522 |
| Dirty Job Total (bbls) | 7,972 |
| 100 Mesh | 304,980 |
| 40/70 | 104,180 |
| Total Proppant (lbs) | 409,160 |
| Total Proppant % | 102.3% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 165 |
| Biocide | 85 |
| Scale | 20 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 23009 |
| Date: | 8/27/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 55 |

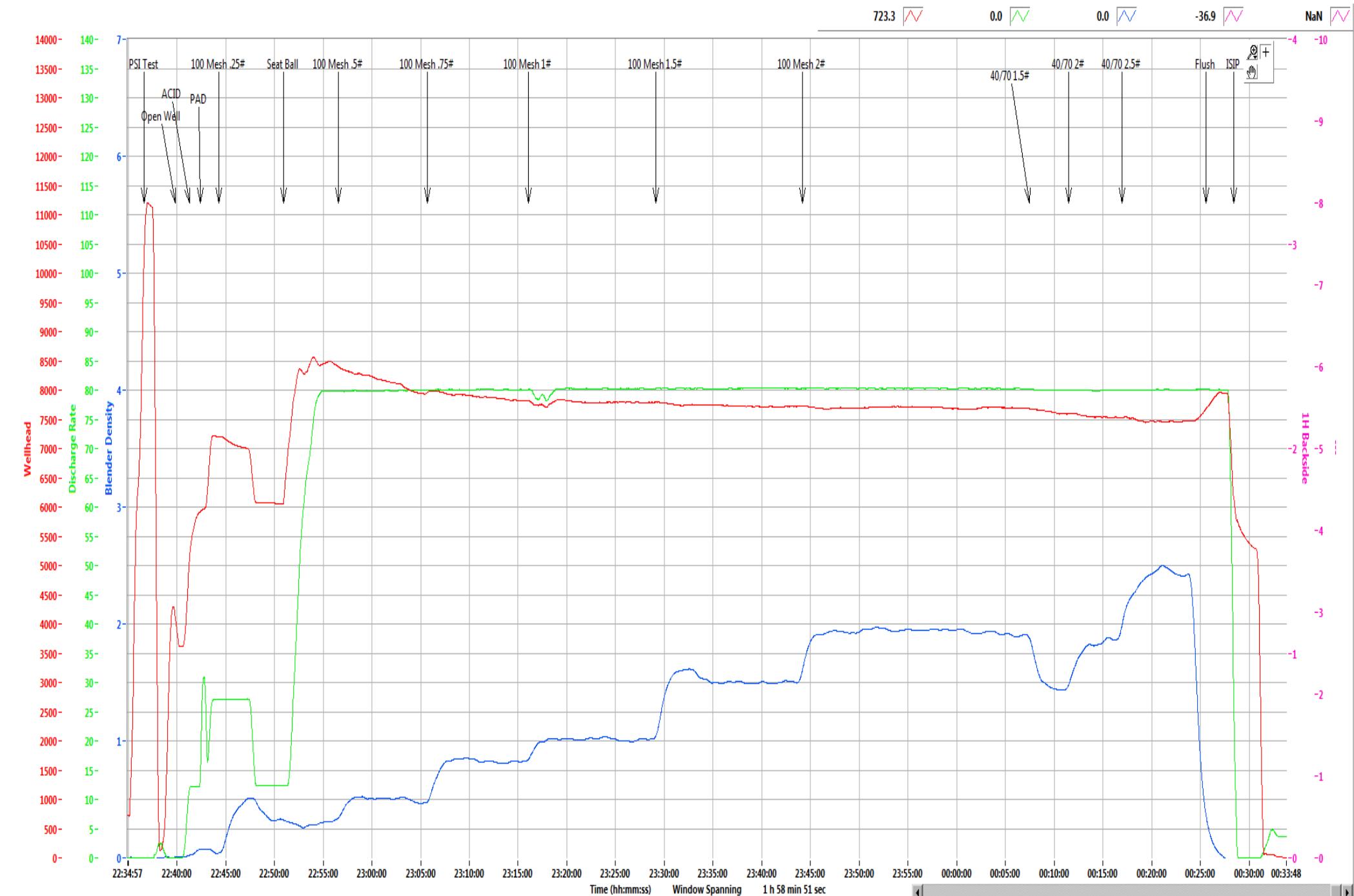
State: WV
County: Monongahela
Operator: Jeremy T/Jeremy M
PO/AFE: 100347-604

(Print Name) Rob Lourie Customer Rep. Rob Lourie Customer Signature: Rob Lourie

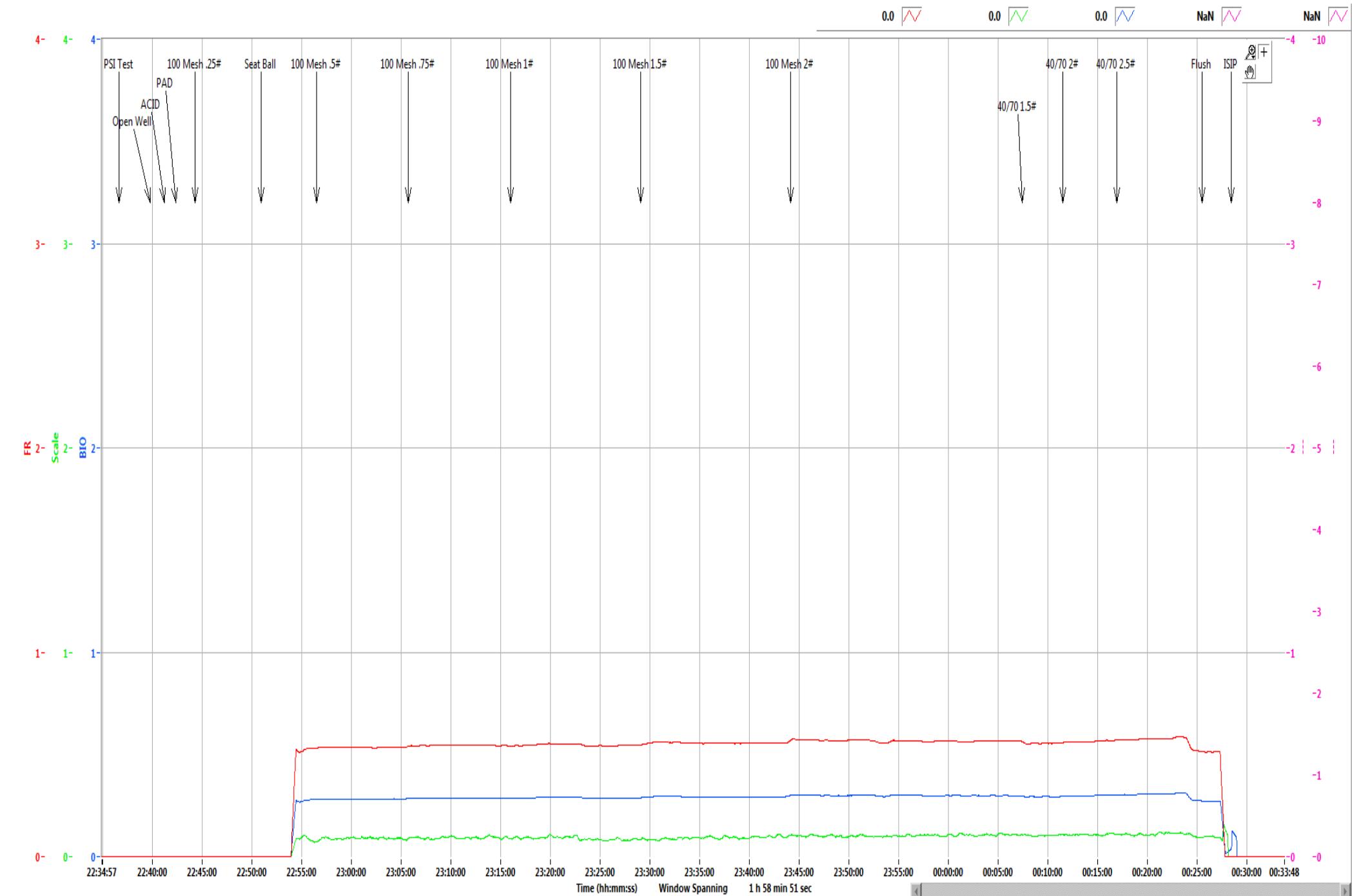


NNE
Boggess 9H
Stage 56
Producers Service Corp.

Post Stage Report
August 28, 2019



Refresh Graph



Refresh Graph

Boggess Pad

9H

| | |
|--------------------|----------|
| Stage | 56 |
| Date: | 8/27/19 |
| OWP (psi): | 3,606 |
| Starting Time | 10:39 PM |
| Ending Time | 12:28 AM |
| Pump Time (hr:min) | 01:49 |
| Swap Time (hr:min) | 01:45 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 7,064 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,769 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,664 |
| Displacement (psi) | 7,707 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,720 |
| Final FG (psi/ft) | 1.15 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,441 |
| Acid 7.5% HCL (gal) | 500 |
| Wireline Pump Down (bbls) | 22 |
| Pad (bbls) | 49 |
| Treatment (bbls) | 7,402 |
| Displacement (bbls) | 202 |
| (Acid Included)Total Fluid (bbls) | 7,453 |
| Dirty Job Total (bbls) | 7,882 |
| 100 Mesh | 303,060 |
| 40/70 | 99,780 |
| Total Proppant (lbs) | 402,840 |
| Total Proppant % | 100.7% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 165 |
| Biocide | 82 |
| Scale | 19 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp
109 S. Graham St.
Zanesville, OH 43701

| | |
|------------|------------|
| Invoice #: | 23011 |
| Date: | 8/28/2019 |
| Well Name: | Boggess 9H |
| Stage No.: | 56 |

State: WV
County: Monongahela
Operator: Joe/Austin
PO/AFE: 100347-604

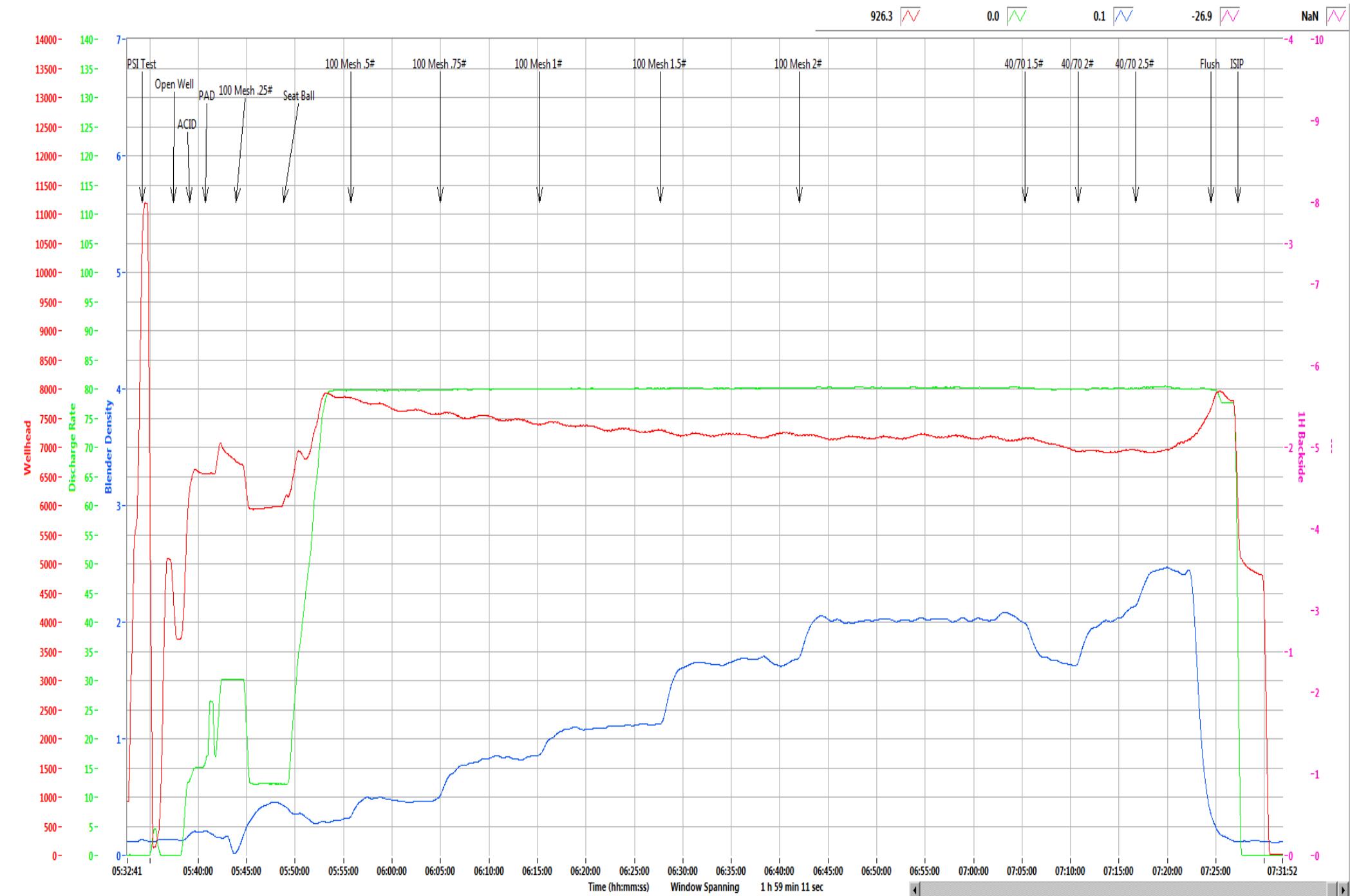
| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|----------------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 500 | GAL | \$ 1.25 | \$ 625.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 1 | GAL | \$ 35.00 | \$ 35.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,030.60 | CWT | \$ 5.50 | \$ 16,668.30 |
| SAND 40/70 | 40/70 white | 997.80 | CWT | \$ 5.75 | \$ 5,737.35 |
| | | | | | |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 165 | GAL | \$ 17.75 | \$ 2,928.75 |
| BIOC11219A | Biocide @ 0.25 GPT | 82 | GAL | \$ 16.00 | \$ 1,312.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 19 | GAL | \$ 16.00 | \$ 304.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| | | | | | |
| ARROWS UP SYSTEM | | 201.42 | TON | \$ 55.00 | \$ 11,078.10 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| | | | Total No Discount | \$ 58,488.50 | |
| | | | 25% Discount Applied | \$ 14,622.13 | |
| | | | Net Stage Total | \$ 43,866.38 | |

(Print Name)
Customer Re

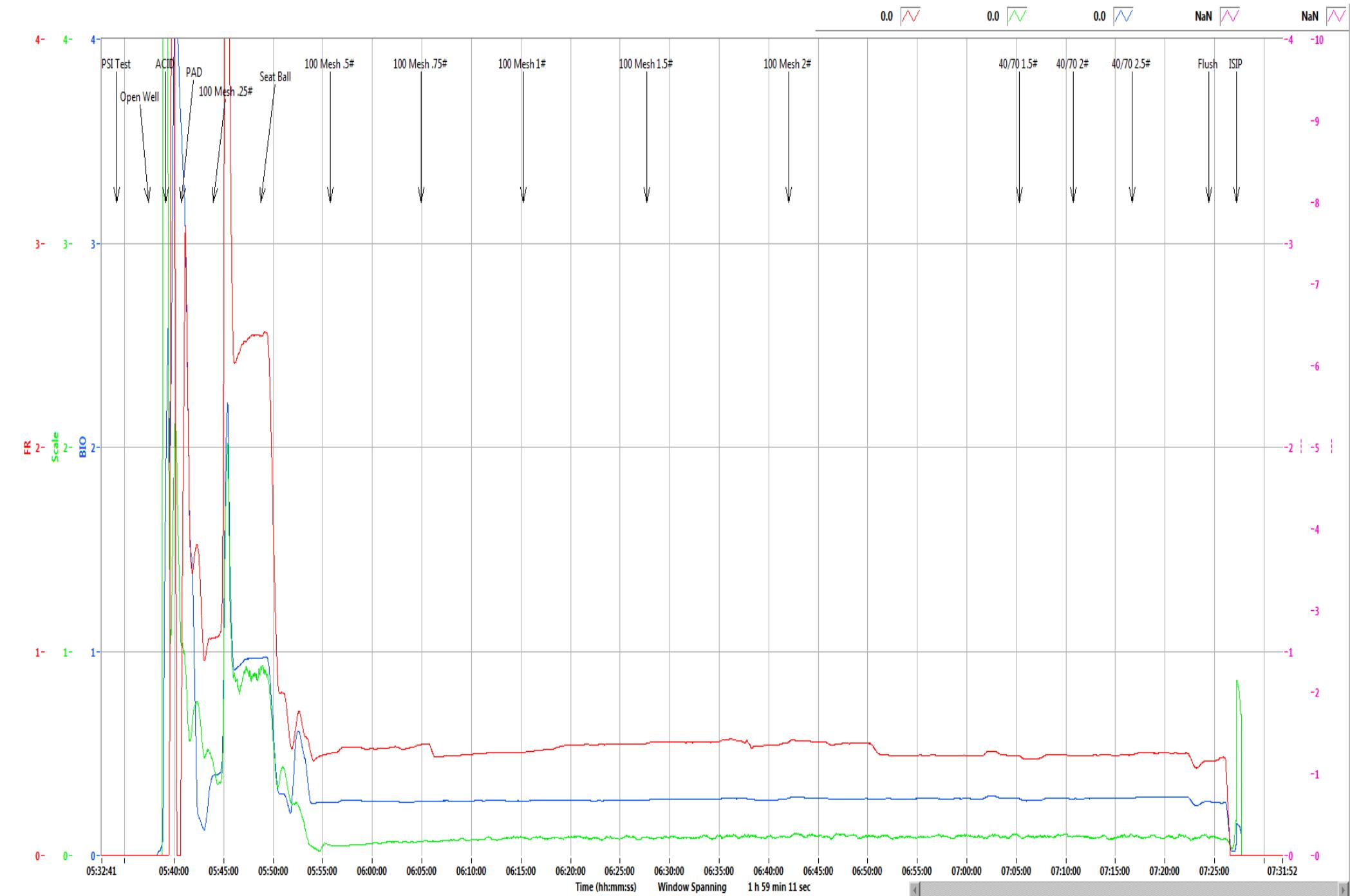


NNE
Boggess 9H
Stage 57
Producers Service Corp.

Post Stage Report
August 28, 2019



Refresh Graph



Boggess Pad

9H

| | |
|--------------------|---------|
| Stage | 57 |
| Date: | 8/28/19 |
| OWP (psi): | 3,721 |
| Starting Time | 5:34 AM |
| Ending Time | 7:27 AM |
| Pump Time (hr:min) | 01:53 |
| Swap Time (hr:min) | 02:04 |
| Starting # Pumps | 17 |
| Finishing # Pumps | 17 |
| TVD (ft) | 8,030 |

Pressures & Rates

| | |
|----------------------------------|-------|
| Breakdown Pressure (psi) | 6,246 |
| Average Treating Rate (bbl/min) | 80 |
| Average Treating Pressure (psi) | 7,290 |
| Maximum Treating Rate (bbl/min) | 81 |
| Maximum Treating Pressure (psi) | 8,000 |
| Displacement (psi) | 7,738 |
| Max Prop Con (lb/gal) | 2.50 |
| ShutDown ISIP (psi) | 5,257 |
| Final FG (psi/ft) | 1.09 |
| 5 Minute Leakoff Pressure (psi) | |
| 5 Minute Leakoff Rate (psi/min) | |
| 10 Minute Leakoff Pressure (psi) | |
| 10 Minute Leakoff Rate (psi/min) | |
| 15 Minute Leakoff Pressure (psi) | |
| 15 Minute Leakoff Rate (psi/min) | |

Fluids & Proppant

| | |
|-----------------------------------|---------|
| Slickwater (bbls) | 7,468 |
| Acid 7.5% HCL (gal) | 1,000 |
| Wireline Pump Down (bbls) | 24 |
| Pad (bbls) | 86 |
| Treatment (bbls) | 7,165 |
| Displacement (bbls) | 200 |
| (Acid Included)Total Fluid (bbls) | 7,492 |
| Dirty Job Total (bbls) | 7,912 |
| 100 Mesh | 302,460 |
| 40/70 | 100,760 |
| Total Proppant (lbs) | 403,220 |
| Total Proppant % | 100.8% |

CHEMICALS

| | |
|---------|-----|
| FR 9800 | 155 |
| Biocide | 80 |
| Scale | 21 |

Northeast Natural Energy
48 Donley Street, Ste 601
Morgantown, WV 26501



Producers Service Corp.
109 S. Graham St.
Zanesville, OH 43701

Invoice #: 23013
Date: 8/28/2019
Well Name: Boggess 9H
Stage No.: 57

State: WV
County: Monongahela
Operator: Joe/Austin
PO/AFE: 100347-604

| Description | Notes | Amount | Units of Sale | Unit Cost | Total Cost |
|--|-------------------------------|----------|---------------|--------------|--------------|
| FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR | Fixed each stage @ 80 BPM max | 1 | EA | \$ 15,000.00 | \$ 15,000.00 |
| BLENDER CHARGE 80 BPM | | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| BLENDER CHARGE STAND BY BLENDER | NO CHARGE | 0 | EA | \$ 1,000.00 | \$ - |
| HC ACID 7.5% | Iron Control Acid | 1000 | GAL | \$ 1.25 | \$ 1,250.00 |
| 4N1 INHIBITOR | Inhibitor @ 2 gal/1000 | 2 | GAL | \$ 35.00 | \$ 70.00 |
| ACID DELIVERY | Includes Chemicals | 2 | HR | \$ 100.00 | \$ 200.00 |
| | | | | | |
| SAND 80/100 | 80/100 white | 3,024.60 | CWT | \$ 5.50 | \$ 16,635.30 |
| SAND 40/70 | 40/70 white | 1,007.60 | CWT | \$ 5.75 | \$ 5,793.70 |
| StimSTREAM FR 9800 | Friction Reducer @ 0.5 GPT | 155 | GAL | \$ 17.75 | \$ 2,751.25 |
| BIOC11219A | Biocide @ 0.25 GPT | 80 | GAL | \$ 16.00 | \$ 1,280.00 |
| SCAL16846A | Scale Control @ 0.05 GPT | 21 | GAL | \$ 16.00 | \$ 336.00 |
| | | | | | |
| HIGH PRESSURE MANIFOLD | | 1 | STAGE | \$ 1,500.00 | \$ 1,500.00 |
| N2 PRESSURE RELIEF VALVE | | 1 | STAGE | \$ 200.00 | \$ 200.00 |
| HIGH PRESSURE DENSIMETER | | 1 | STAGE | \$ 400.00 | \$ 400.00 |
| COMMAND CENTER | | 0 | STAGE | \$ 1,500.00 | \$ - |
| PUMP DOWN FOR PERFORATING | | 0 | STAGE | \$ 1,500.00 | \$ - |
| ARROWS UP SYSTEM | | 201.61 | TON | \$ 55.00 | \$ 11,088.55 |
| | | | | | |
| DIESEL FUEL | Not eligible for discount | | GAL | \$ 3.04 | \$ - |
| | | | | | |
| Total No Discount \$ 59,004.80 | | | | | |
| 25% Discount Applied \$ 14,751.20 | | | | | |
| Net Stage Total \$ 44,253.60 | | | | | |

(Print Name)
Customer Rep: Kevin Helder

Customer Signature: THD