



POST-STIMULATION REPORT

Northeast Natural Energy, LLC

Bogges 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

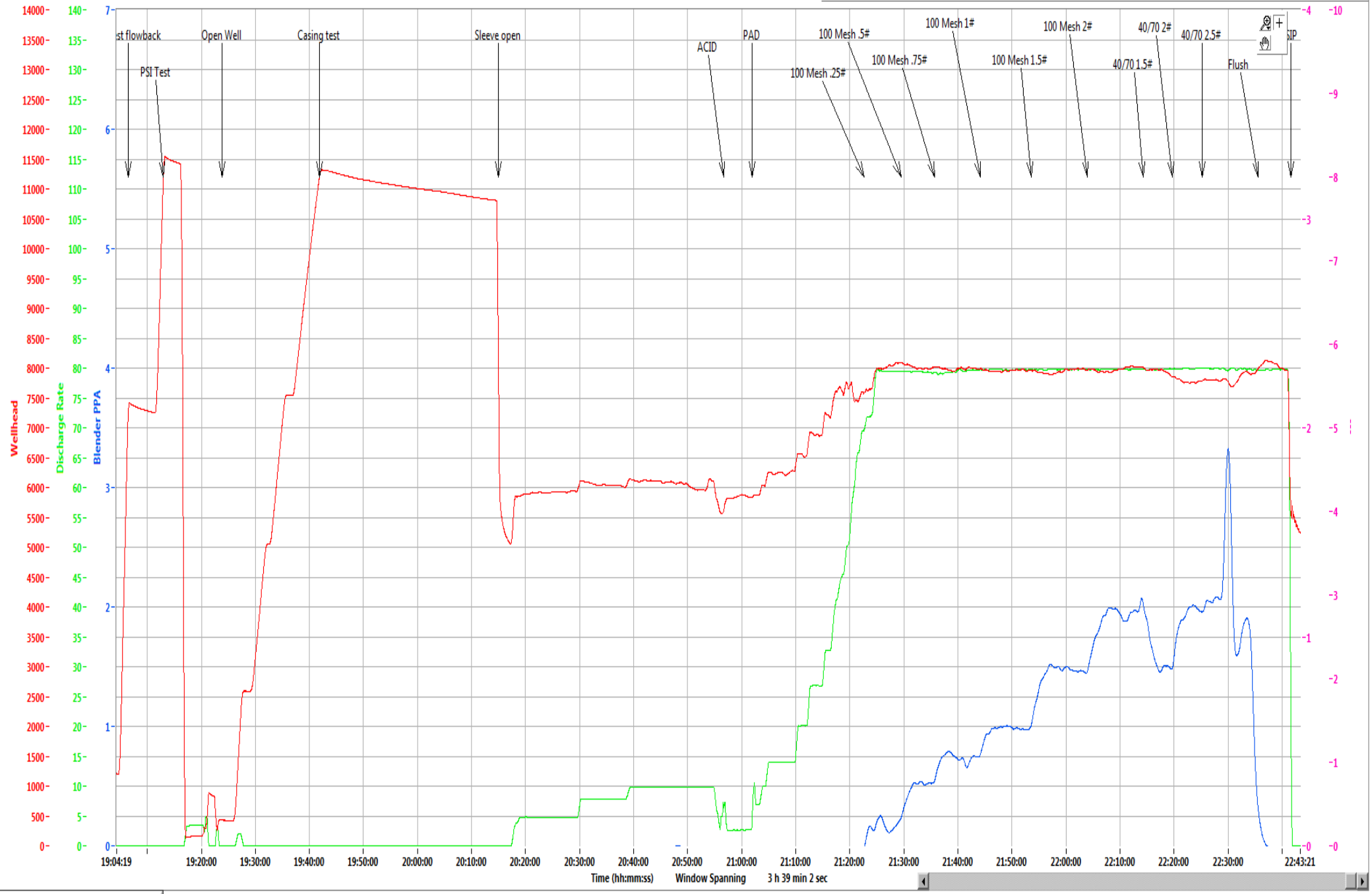
PSC appreciates the opportunity to complete the stimulation of the Boggess 9H well. 57 Stages were completed from August 5th, 2019 to August 28th, 2019. Average treating pressure was 8208 psi at an average rate of 80.2 bpm. Average pump time was 2 hour and 4 minutes. 16,966,620 lbs of 100 mesh sand and 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.

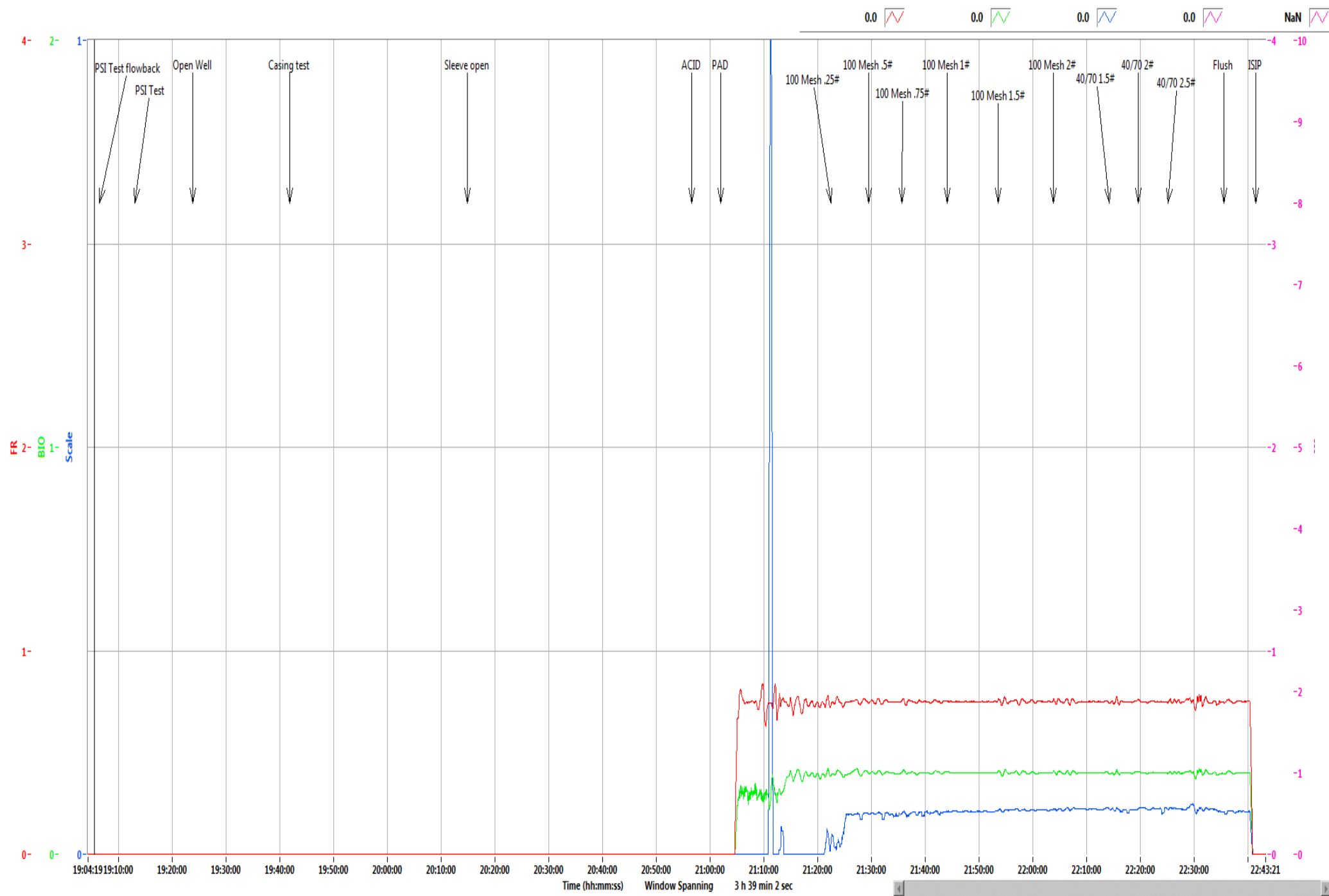
Post Stage Report
August 5, 2019

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Time (hh:mm:ss) Window Spanning 3 h 39 min 2 sec

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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: Bogges 9H
 Stage No.: 1

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

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	1,800.60	CWT	\$ 5.50	\$ 9,903.30
SAND 40/70	40/70 white	1,201.20	CWT	\$ 5.75	\$ 6,906.90
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	205	GAL	\$ 17.75	\$ 3,638.75
BIOC11219A	Biocide @ 0.25 GPT	68	GAL	\$ 16.00	\$ 1,088.00
SCAL16846A	Scale Control @ 0.05 GPT	14	GAL	\$ 16.00	\$ 224.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		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		150.09	TON	\$ 55.00	\$ 8,254.95

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

(Print Name)
 Customer Rep:

Rob Colyer

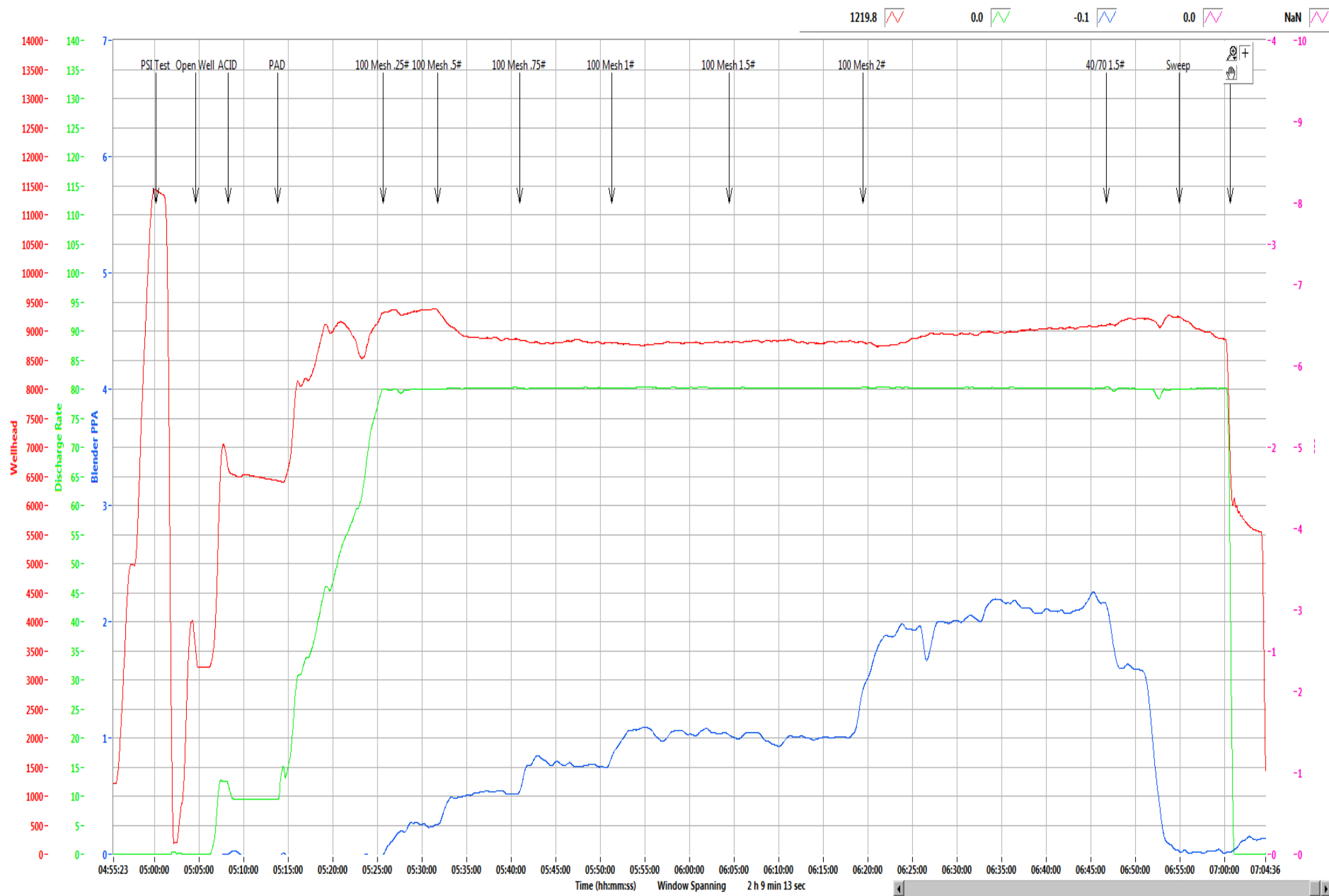
Customer Signature:

R. Colyer

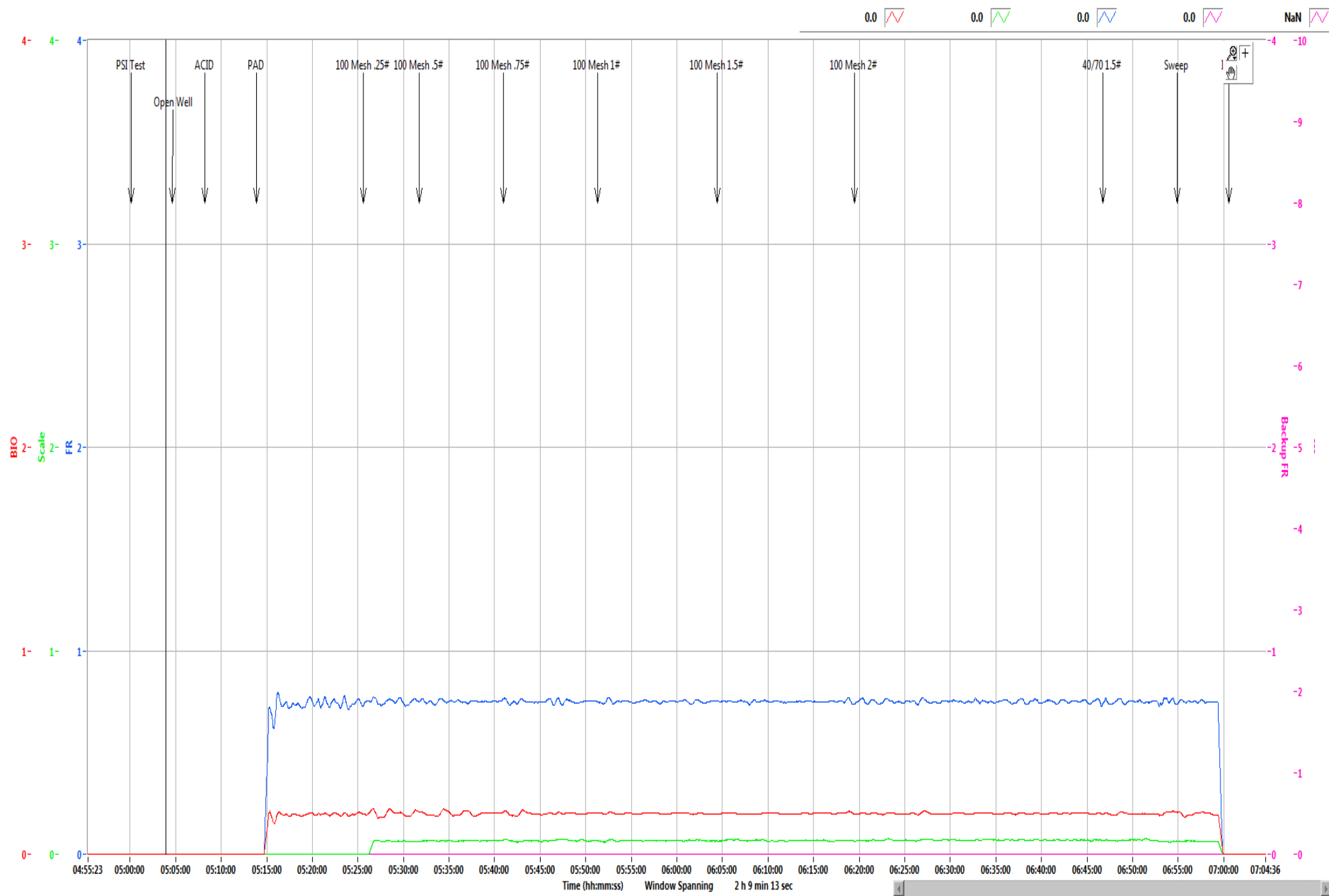


NNE
Boggess 9H
Stage 2
Producers Service Corp.

Post Stage Report
August 6, 2019



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Time (hh:mm:ss) Window Spanning 2 h 9 min 13 sec

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: Bogges 9H
 Stage No.: 2

State: WV
 County: Monongahela
 Operator: Joe/Jamie/Brad
 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	3,204.00	CWT	\$ 5.50	\$ 17,622.00
SAND 40/70	40/70 white	0.00	CWT	\$ 5.75	\$ -
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	256	GAL	\$ 17.75	\$ 4,544.00
BIOC11219A	Biocide @ 0.25 GPT	74	GAL	\$ 16.00	\$ 1,184.00
SCAL16846A	Scale Control @ 0.06 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 DENSIOMETER		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		160.2	TON	\$ 55.00	\$ 8,811.00

Total No Discount \$ 56,209.00
 25% Discount Applied \$ 14,052.25
 Net Stage Total \$ 42,156.75

(Print Name) E. Boone
 Customer Rep: _____

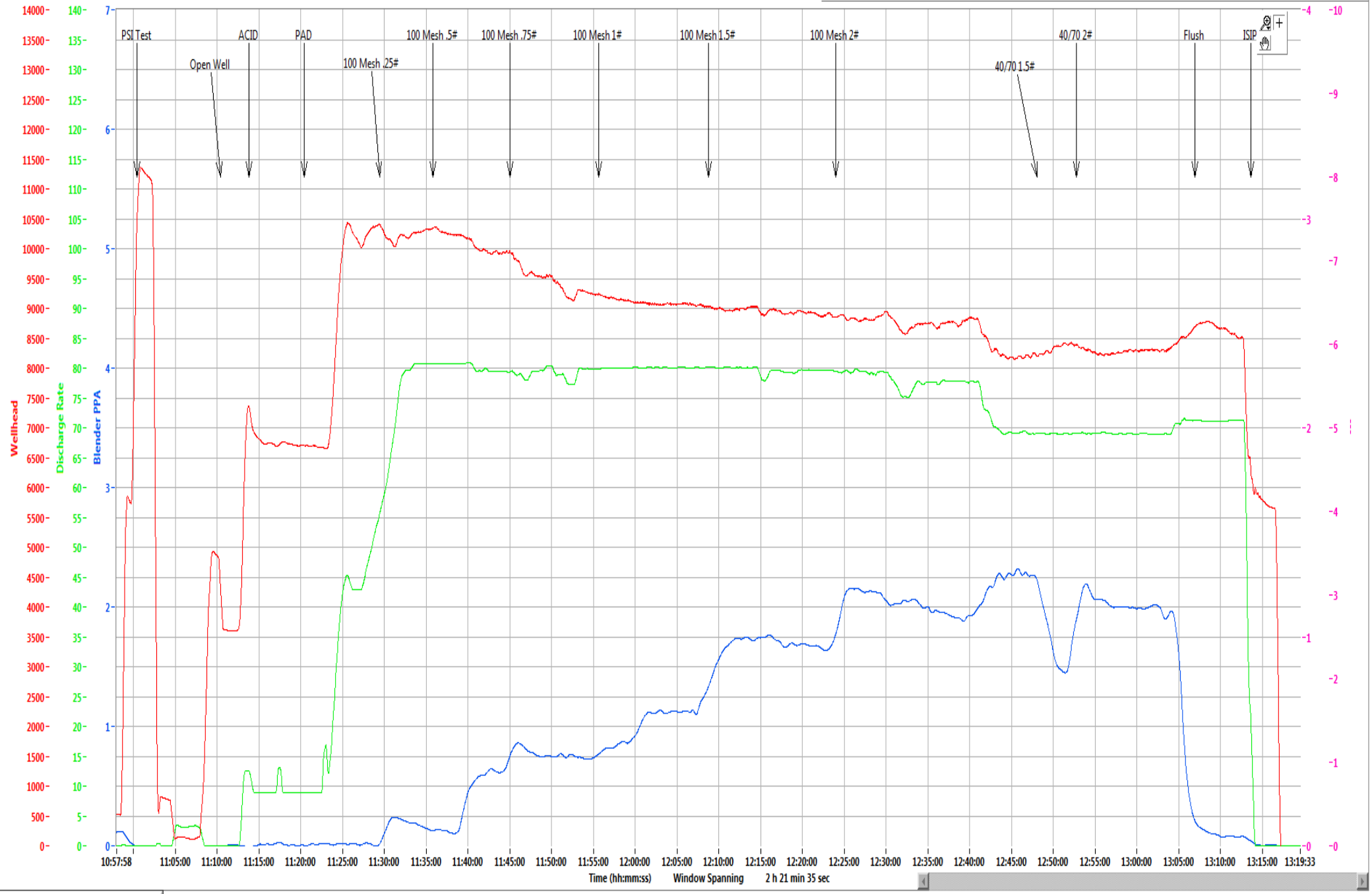
Customer Signature: E. Boone



NNE
Boggess 9H
Stage 3
Producers Service Corp.

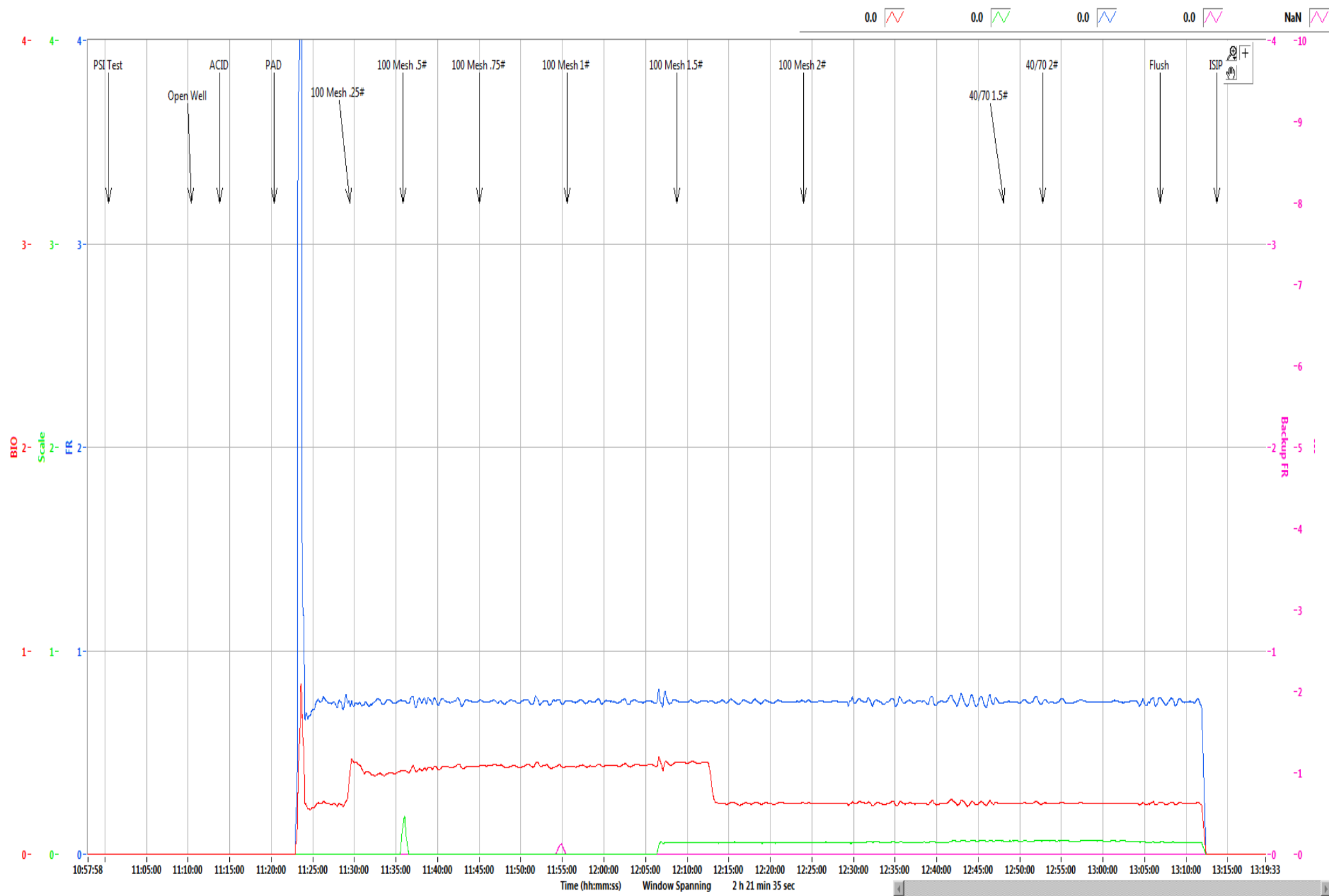
Post Stage Report
August 6, 2019

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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

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	2,997.00	CWT	\$ 5.50	\$ 16,483.50
SAND 40/70	40/70 white	922.80	CWT	\$ 5.75	\$ 5,306.10
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	249	GAL	\$ 17.75	\$ 4,419.75
BIOC11219A	Biocide @ 0.25 GPT	91	GAL	\$ 16.00	\$ 1,456.00
SCAL16846A	Scale Control @ 0.05 GPT	17	GAL	\$ 16.00	\$ 272.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		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		195.99	TON	\$ 55.00	\$ 10,779.45

Total No Discount \$ 62,476.80
 25% Discount Applied \$ 15,619.20
 Net Stage Total \$ 46,857.60

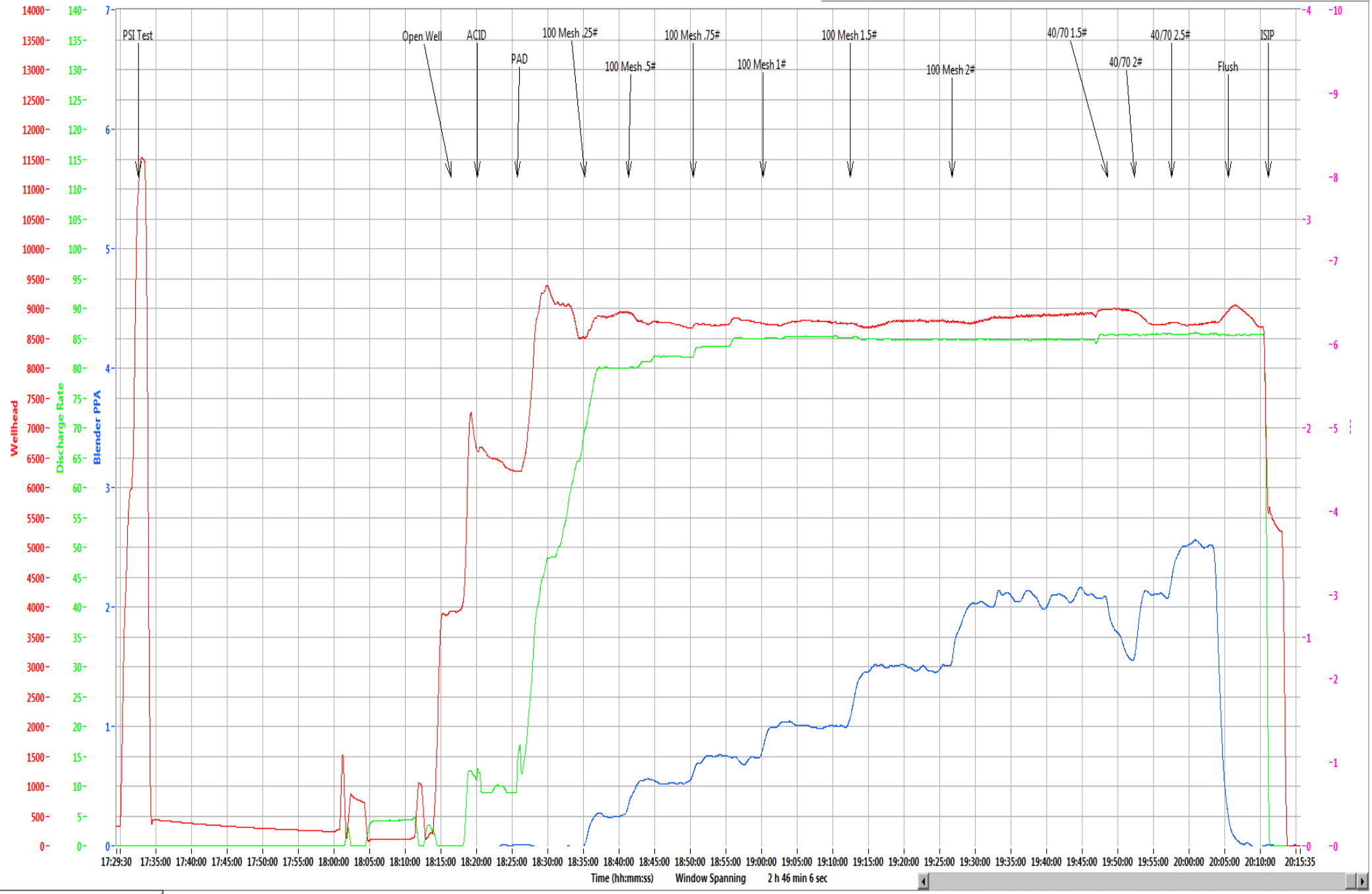
(Print Name) E. Boone Customer Rep: E. Boone Customer Signature: E. Boone



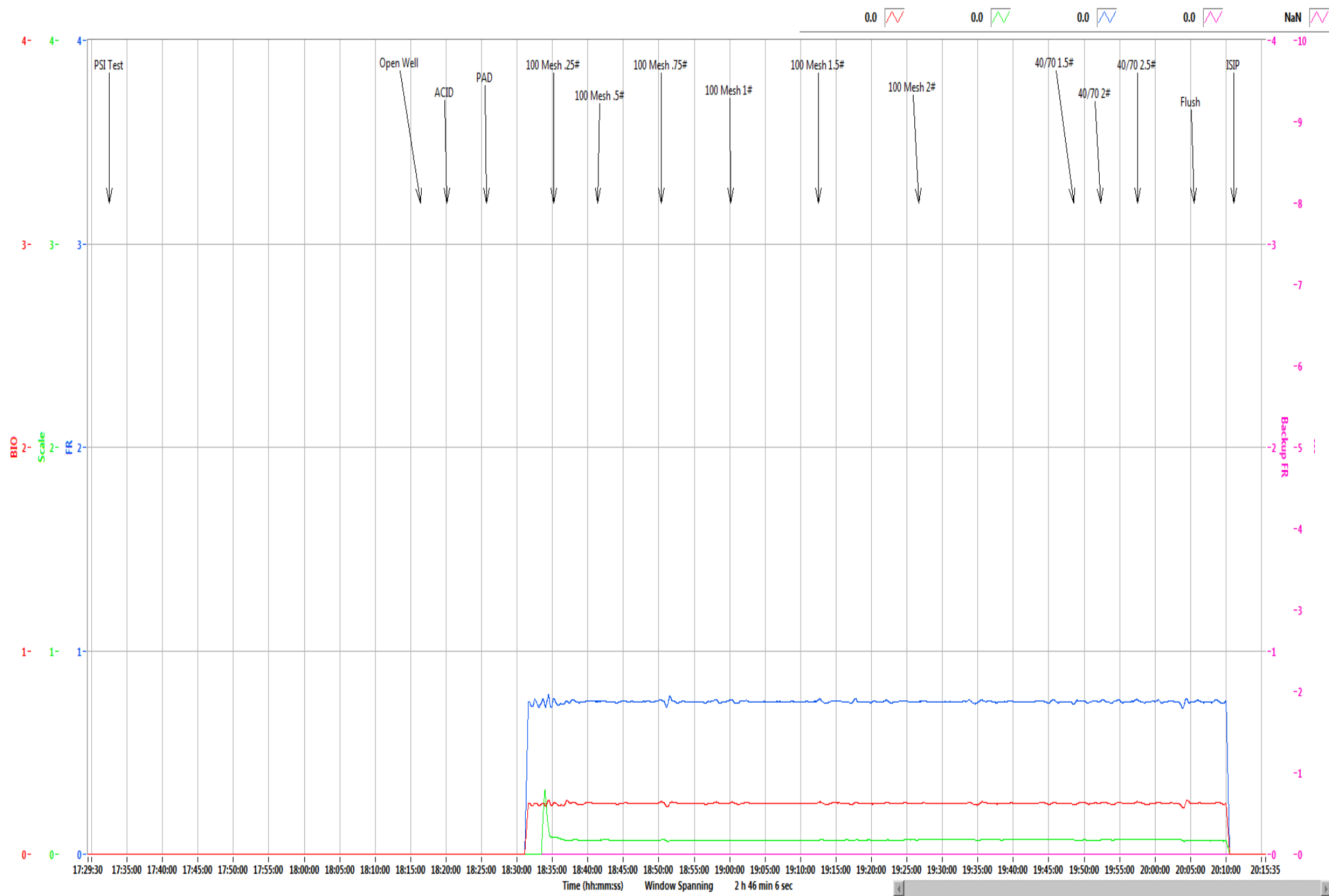
NNE
Boggess 9H
Stage 4
Producers Service Corp.

Post Stage Report
August 6, 2019

331.4 0.0 -0.0 0.0 NaN



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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: Bogges 9H
 Stage No.: 4

State: WV
 County: Monongahela
 Operator: Joe/Jamie/Brad
 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	2,997.80	CWT	\$ 5.50	\$ 16,487.90
SAND 40/70	40/70 white	1,002.20	CWT	\$ 5.75	\$ 5,762.65
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	253	GAL	\$ 17.75	\$ 4,490.75
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 DENSIOMETER		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	TON	\$ 55.00	\$ 11,000.00

Total No Discount \$ 63,181.30
 25% Discount Applied \$ 15,795.33
 Net Stage Total \$ 47,385.98

(Print Name)

Customer Rep:

Rob Cowger

Customer Signature:

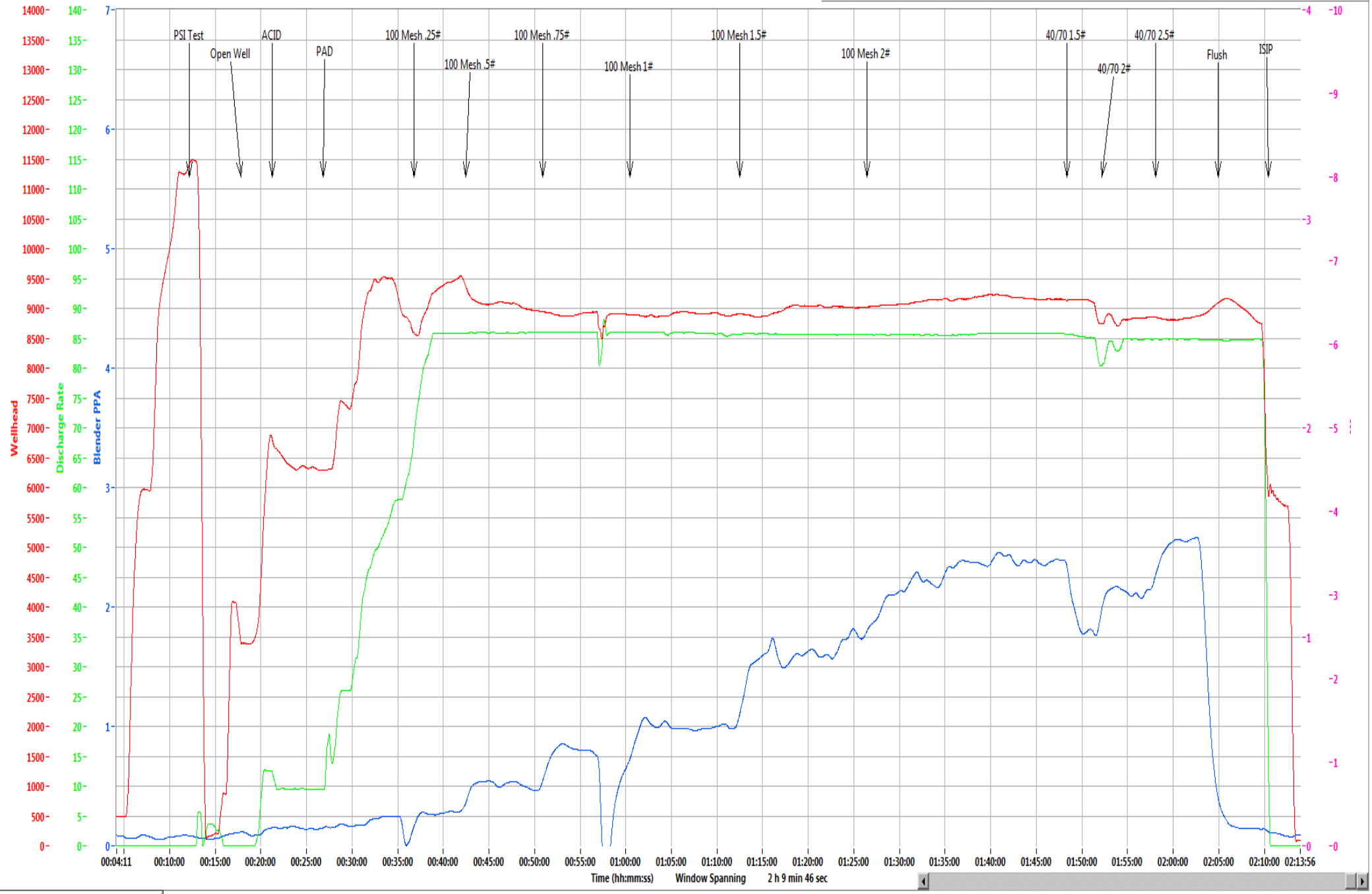
Rob Cowger



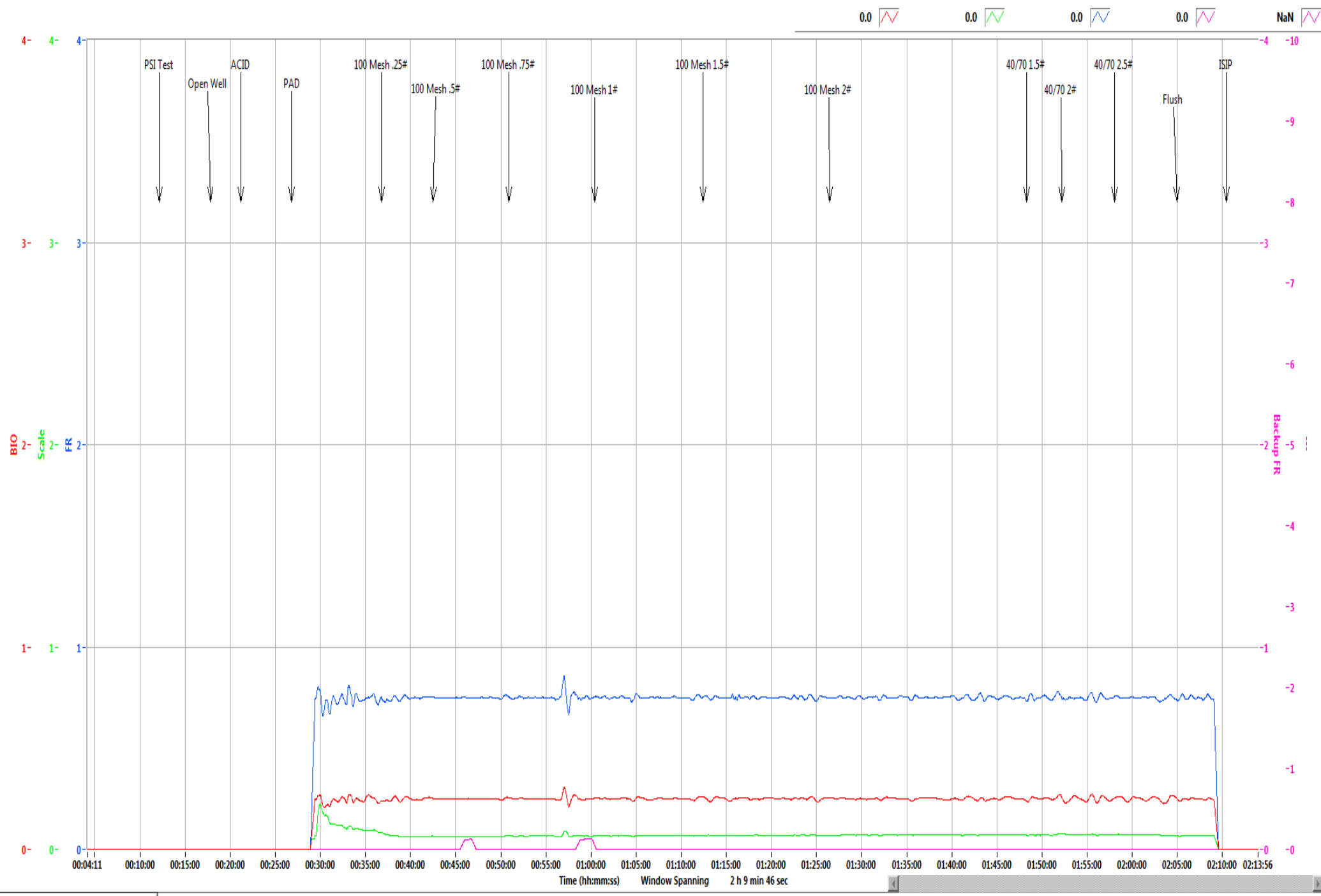
NNE
Boggess 9H
Stage 5
Producers Service Corp.

Post Stage Report
August 7, 2019

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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: Bogges 9H
 Stage No.: 5

State: WV
 County: Monongahela
 Operator: Jeremy/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	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	3,002.00	CWT	\$ 5.50	\$ 16,511.00
SAND 40/70	40/70 white	999.80	CWT	\$ 5.75	\$ 5,748.85
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	260	GAL	\$ 17.75	\$ 4,615.00
BIOC11219A	Biocide @ 0.25 GPT	84	GAL	\$ 16.00	\$ 1,344.00
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 DENSIOMETER		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		200.09	TON	\$ 55.00	\$ 11,004.95

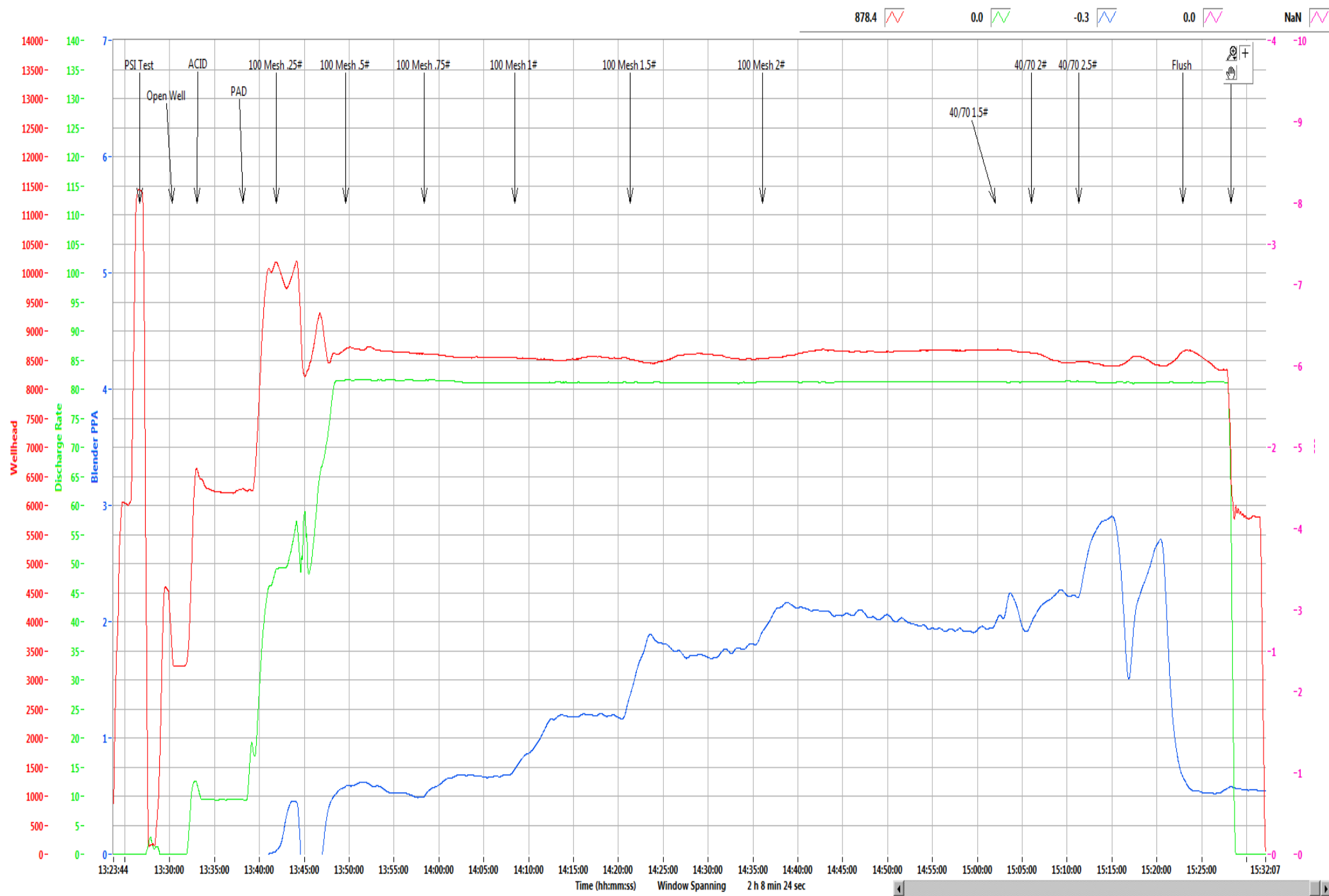
Total No Discount \$ 63,319.80
 25% Discount Applied \$ 15,829.95
 Net Stage Total \$ 47,489.85

(Print Name) Rob Cowger Customer Rep: Rob Cowger Customer Signature: [Signature]



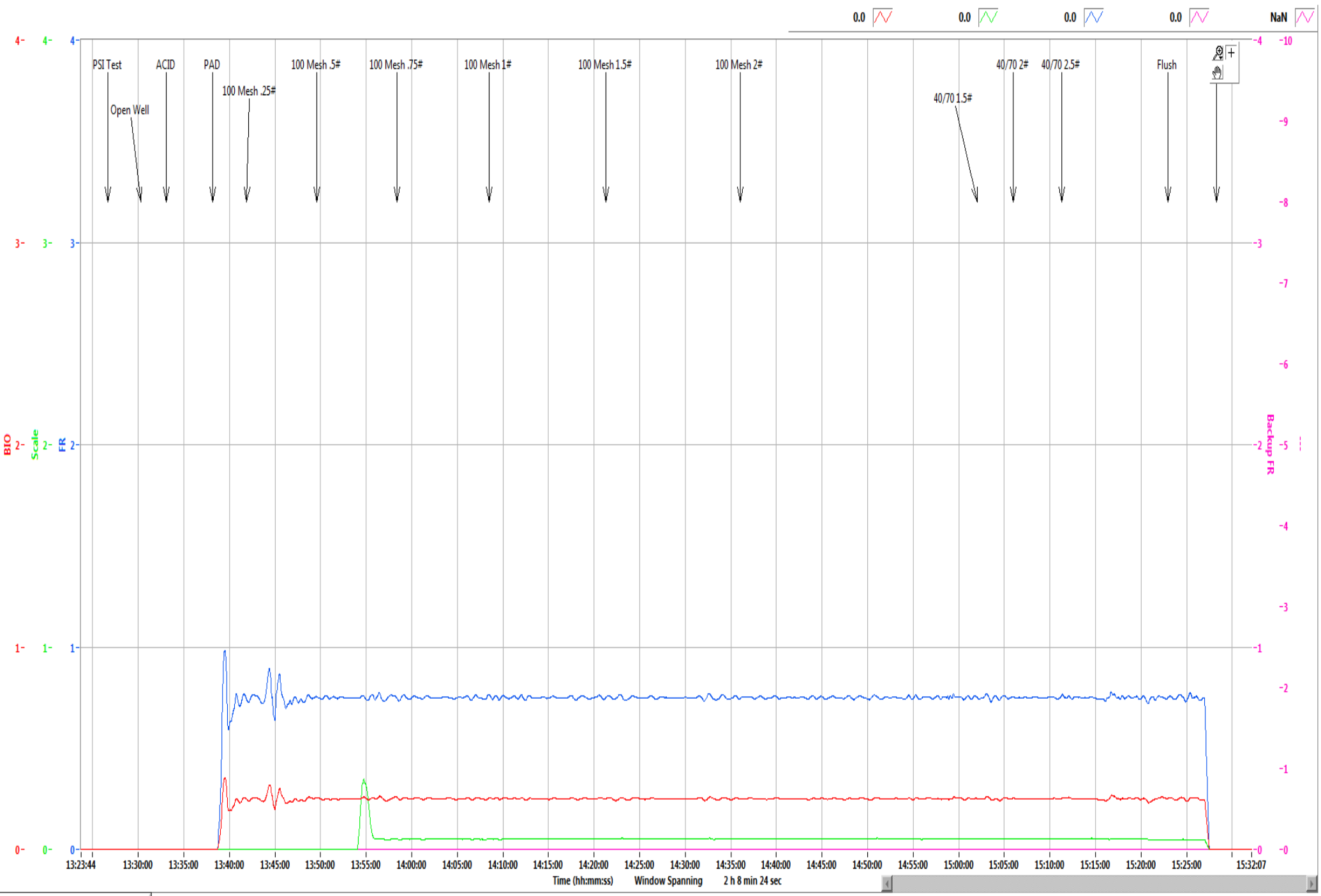
NNE
Boggess 9H
Stage 6
Producers Service Corp.

Post Stage Report
August 7, 2019



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Refresh Graph



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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: Bogges 9H
 Stage No.: 6

State: WV
 County: Monongahela
 Operator: Joe/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	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 DENSIOMETER		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 Rep:

E. Boone

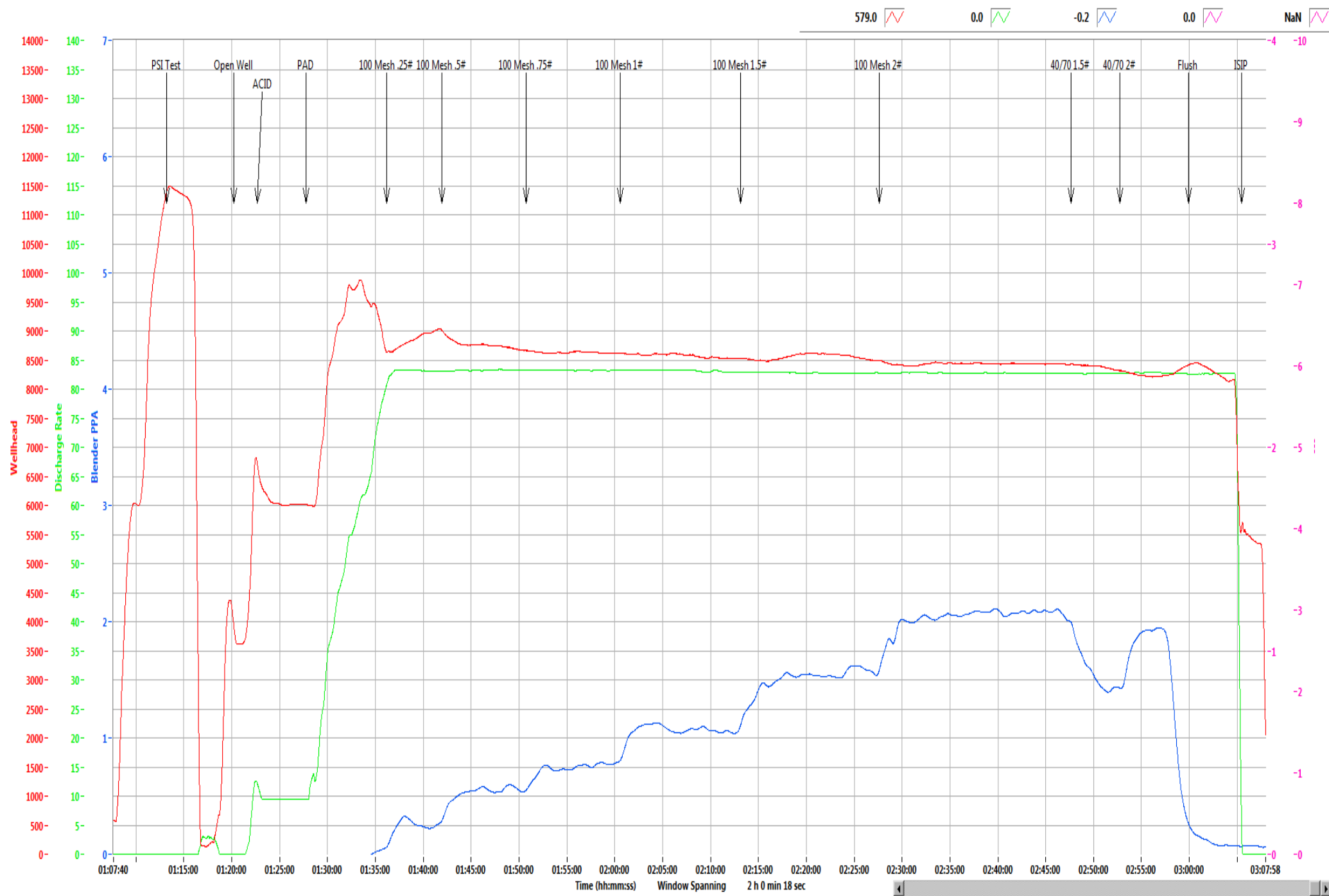
Customer Signature:

E. Boone

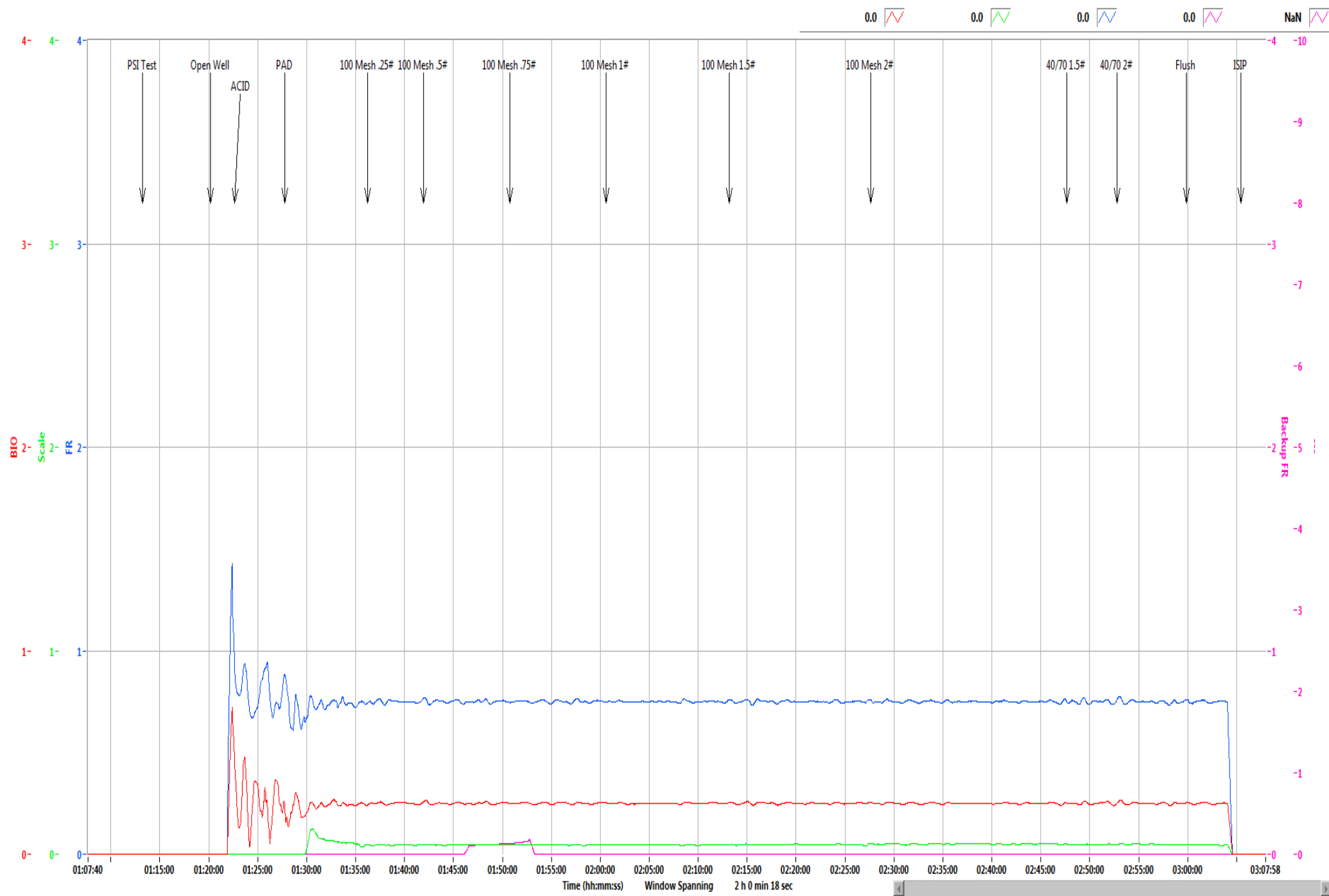


NNE
Boggess 9H
Stage 7
Producers Service Corp.

Post Stage Report
August 8, 2019



Refresh Graph



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: Bogges 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 DENSIOMETER		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 Rep: Rob Cowger

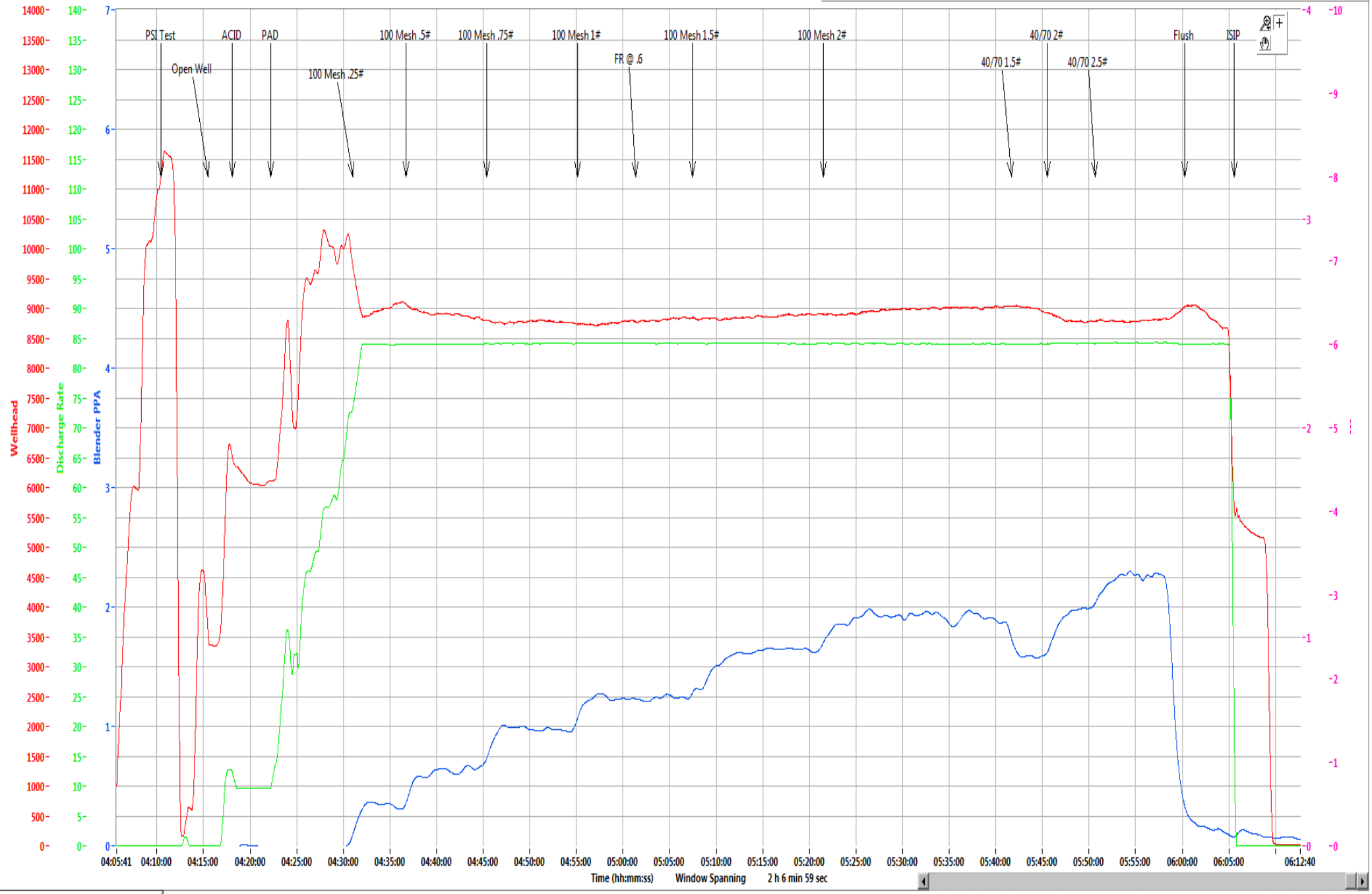
Customer Signature: RA Cowger



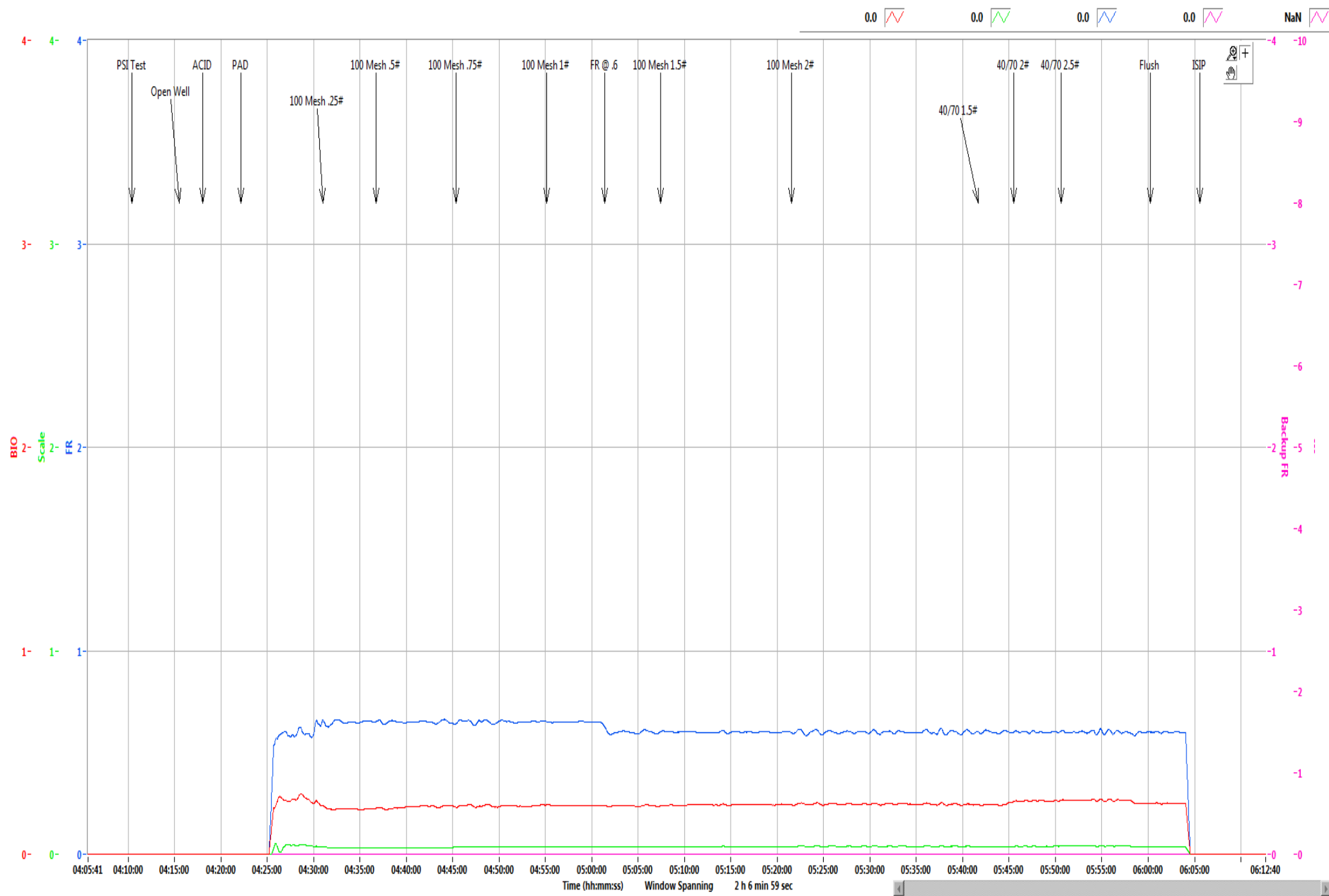
NNE
Bogges 9H
Stage 8
Producers Service Corp.

Post Stage Report
August 9, 2019

994.9 0.0 -0.1 0.0 NaN



Refresh Graph



Refresh Graph

Boguess Pad	9H
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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%

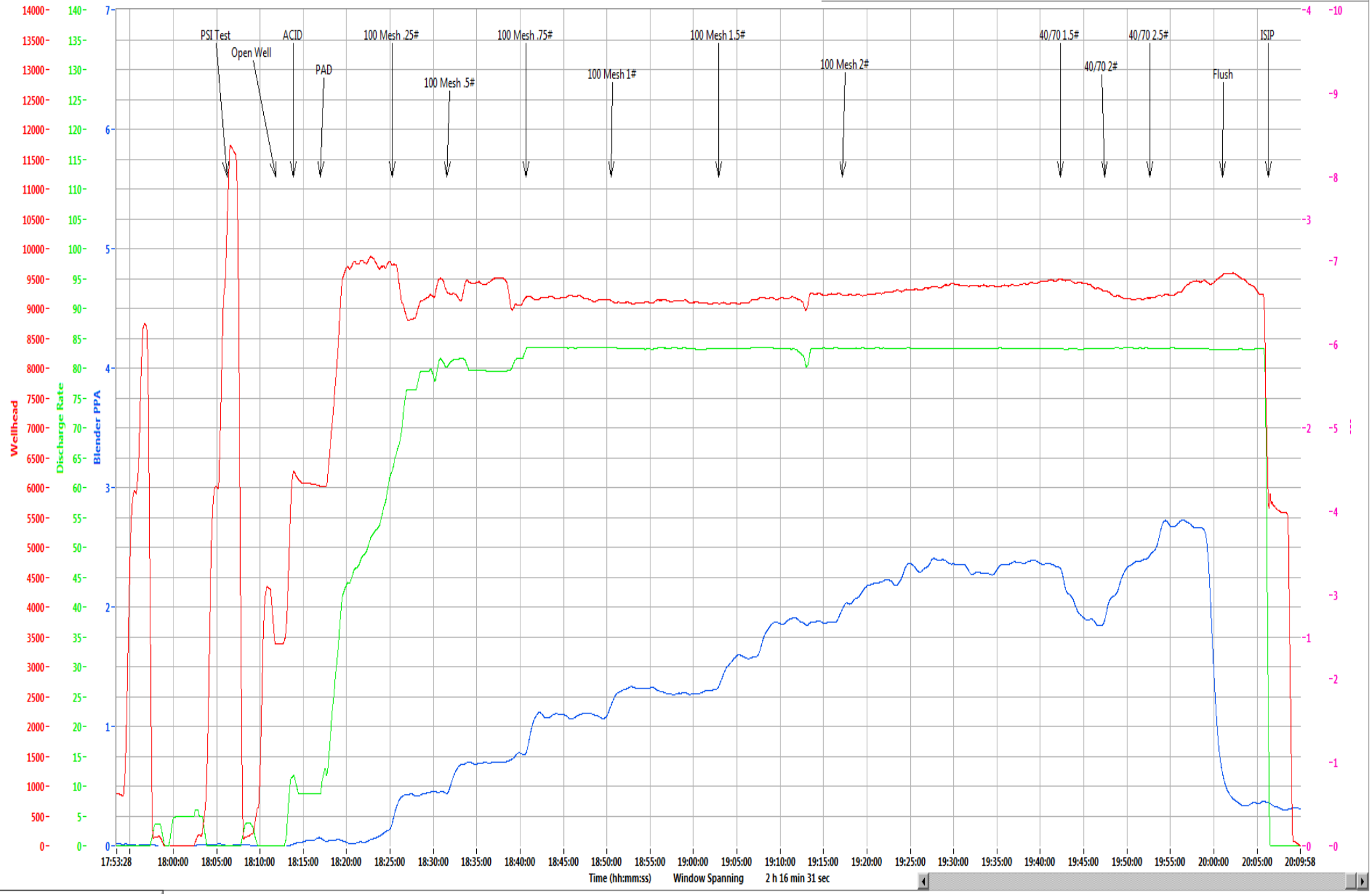
CHEMICALS

FR 9800	210
DRB-LT	
Biocide	95
Scale	19

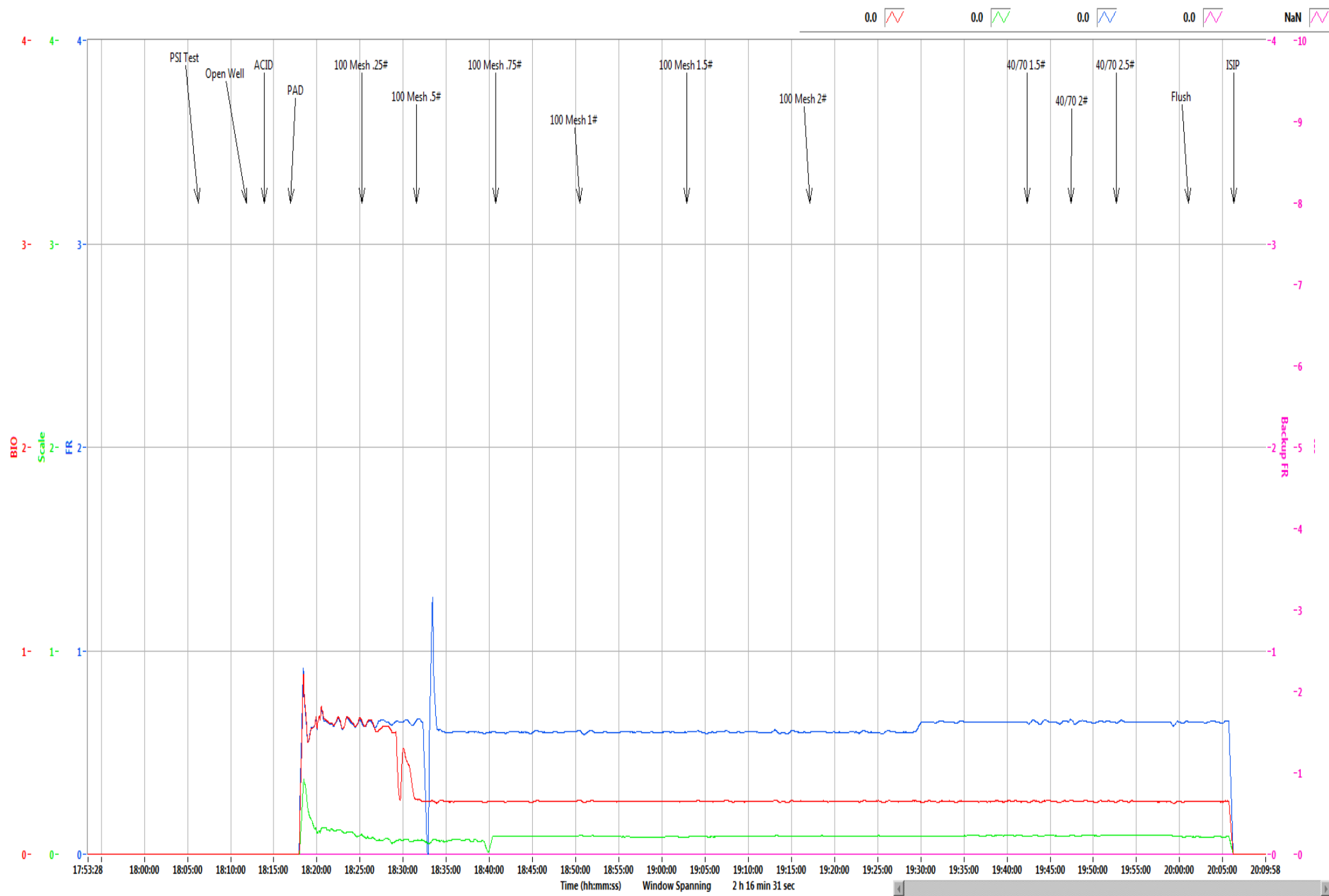


NNE
Bogges 9H
Stage 9
Producers Service Corp.

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: Bogges 9H
 Stage No.: 9

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

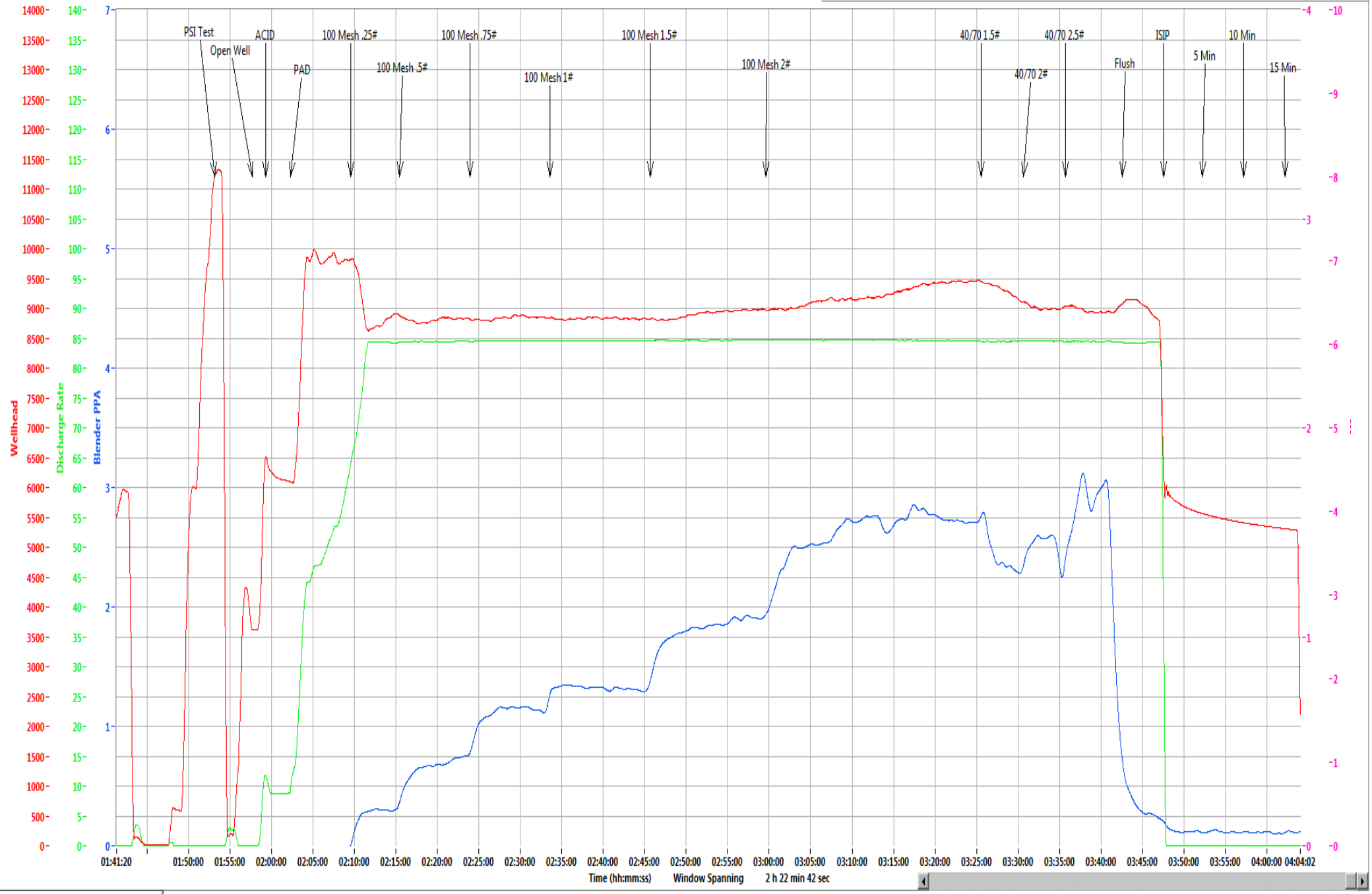
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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 DENSIOMETER		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) Rob Louger Customer Rep: _____ Customer Signature: [Signature]



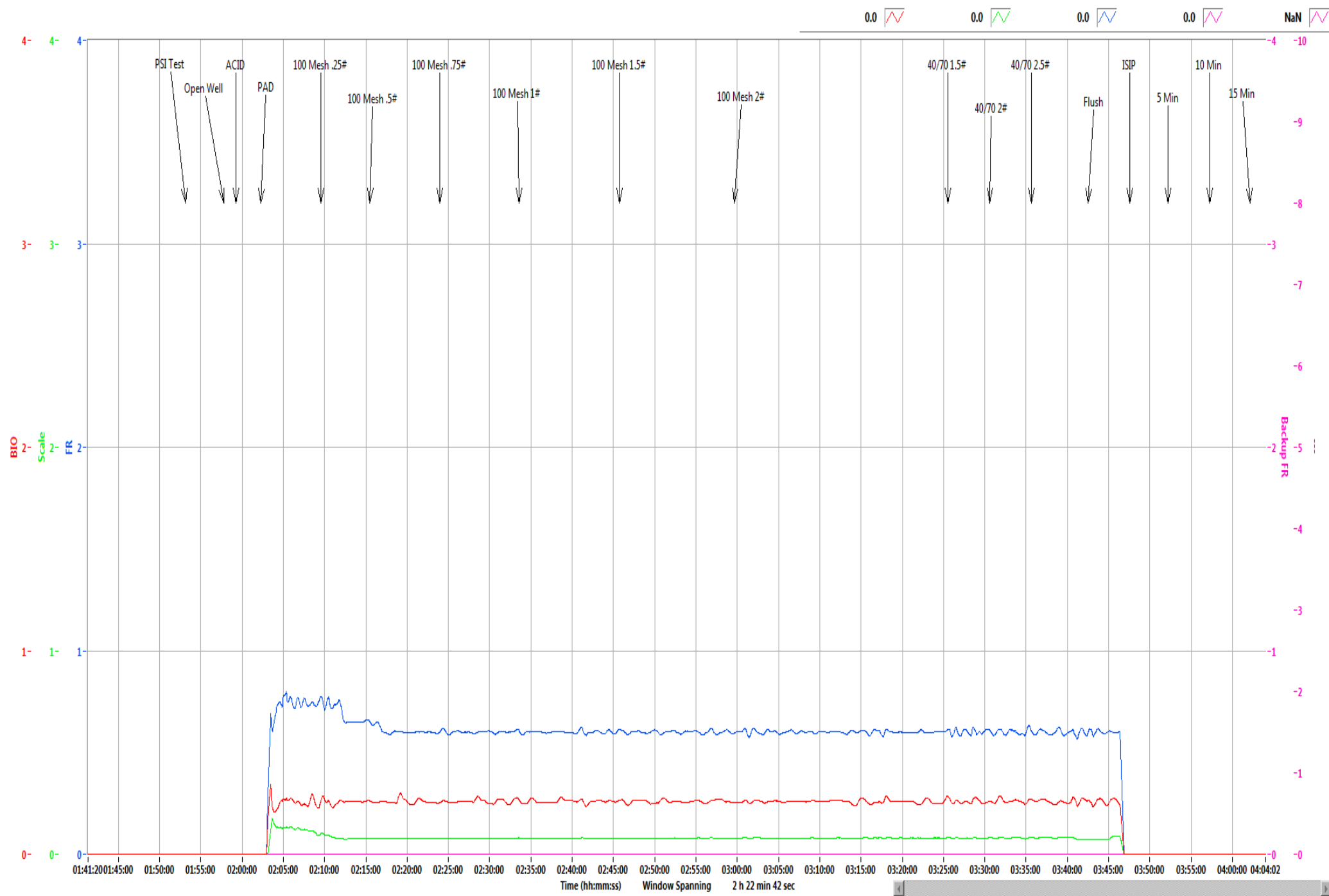
NNE
Bogges 9H
Stage 10
Producers Service Corp.

Post Stage Report
August 10, 2019



Refresh Graph

Time (hh:mm:ss) Window Spanning 2 h 22 min 42 sec



Refresh Graph

Boggess Pad	9H
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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: Bogges 9H
 Stage No.: 10

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	2,967.80	CWT	\$ 5.50	\$ 16,322.90
SAND 40/70	40/70 white	1,032.00	CWT	\$ 5.75	\$ 5,934.00
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	213	GAL	\$ 17.75	\$ 3,780.75
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 DENSIOMETER		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		199.99	TON	\$ 55.00	\$ 10,999.45
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 60,529.10
 25% Discount Applied \$ 15,132.28
 Net Stage Total \$ 45,396.83

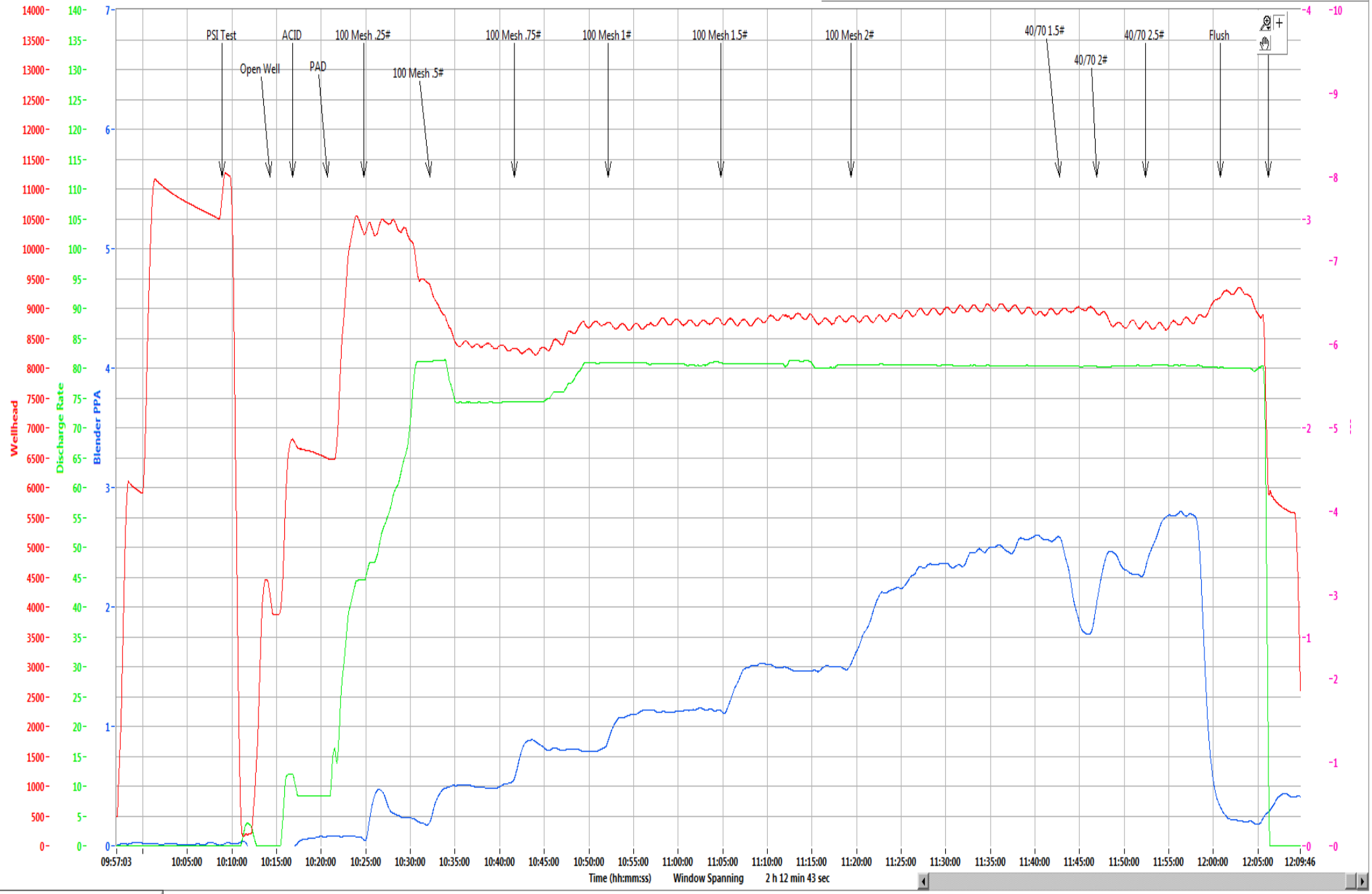
(Print Name) Rob Carger Customer Rep: Rob Carger Customer Signature: [Signature]



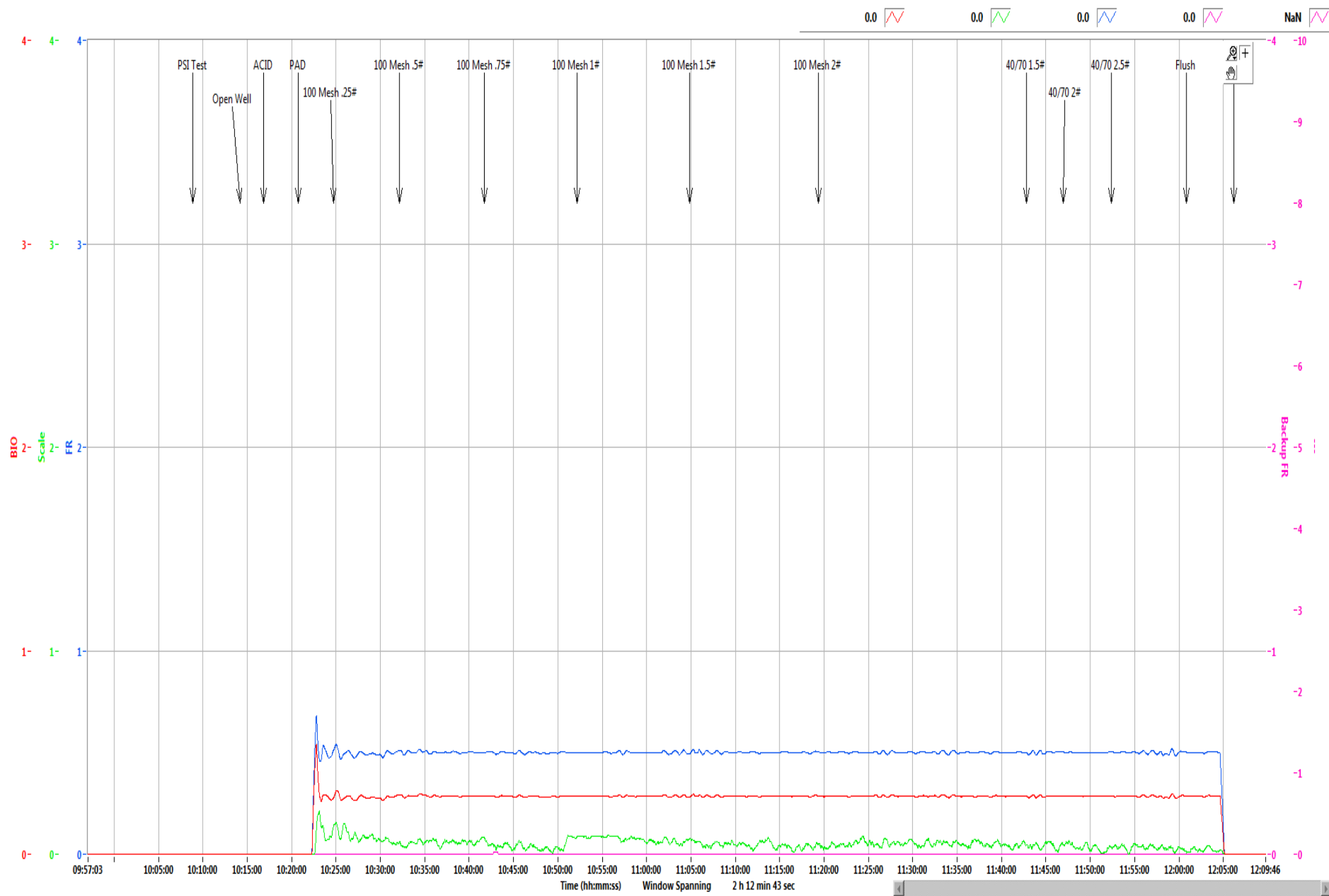
NNE
Boggess 9H
Stage 11
Producers Service Corp.

Post Stage Report
August 10, 2019

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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: Boguess 9H
 Stage No.: 11

State: WV
 County: Monongahela
 Operator: Jamie/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	3,007.00	CWT	\$ 5.50	\$ 16,538.50
SAND 40/70	40/70 white	1,000.60	CWT	\$ 5.75	\$ 5,753.45
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	163	GAL	\$ 17.75	\$ 2,893.25
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 DENSIOMETER		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		200.38	TON	\$ 55.00	\$ 11,020.90
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

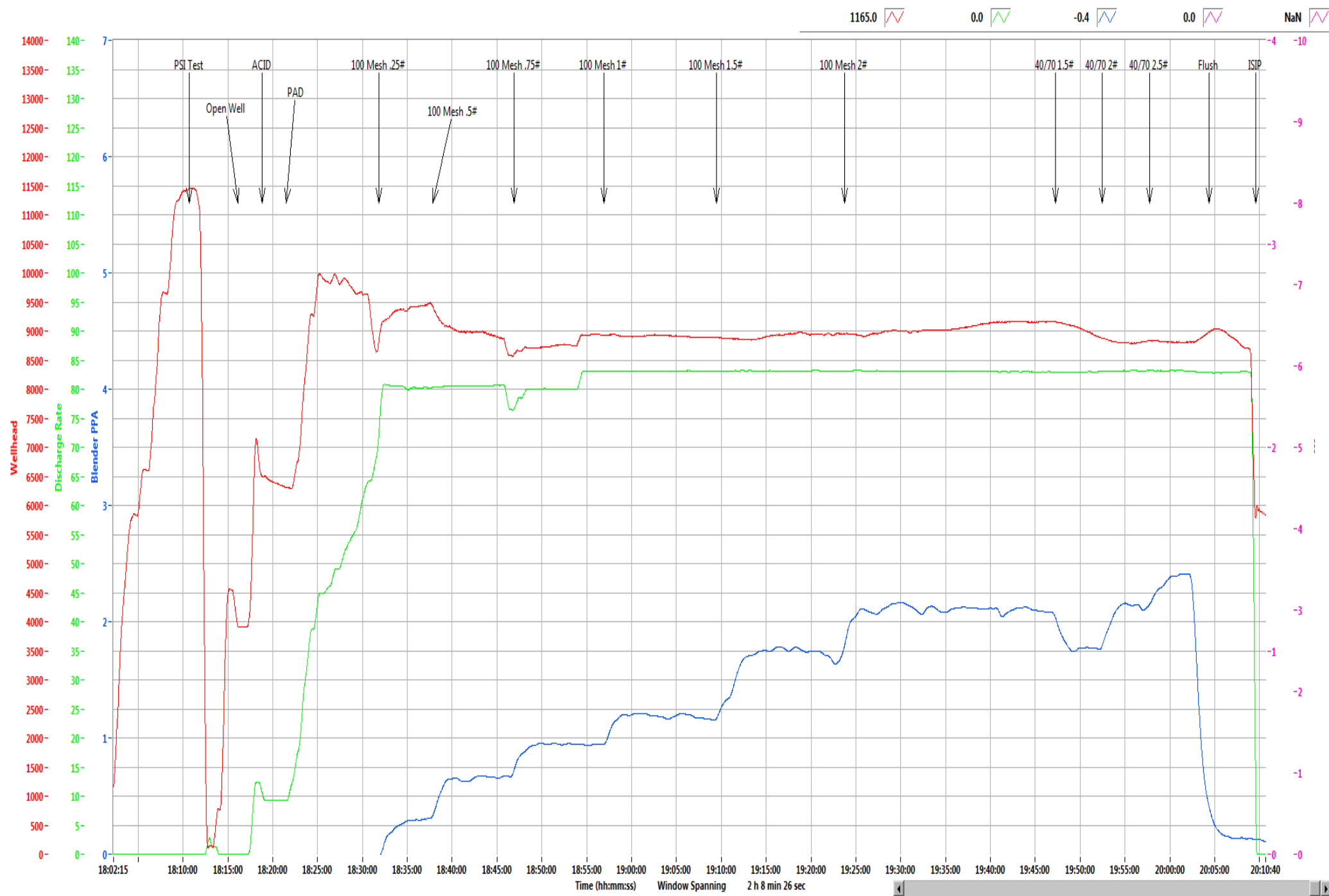
Total No Discount \$ 60,246.10
 25% Discount Applied \$ 15,061.53
 Net Stage Total \$ 45,184.58

(Print Name) E. Boone Customer Rep: _____ Customer Signature: [Signature]

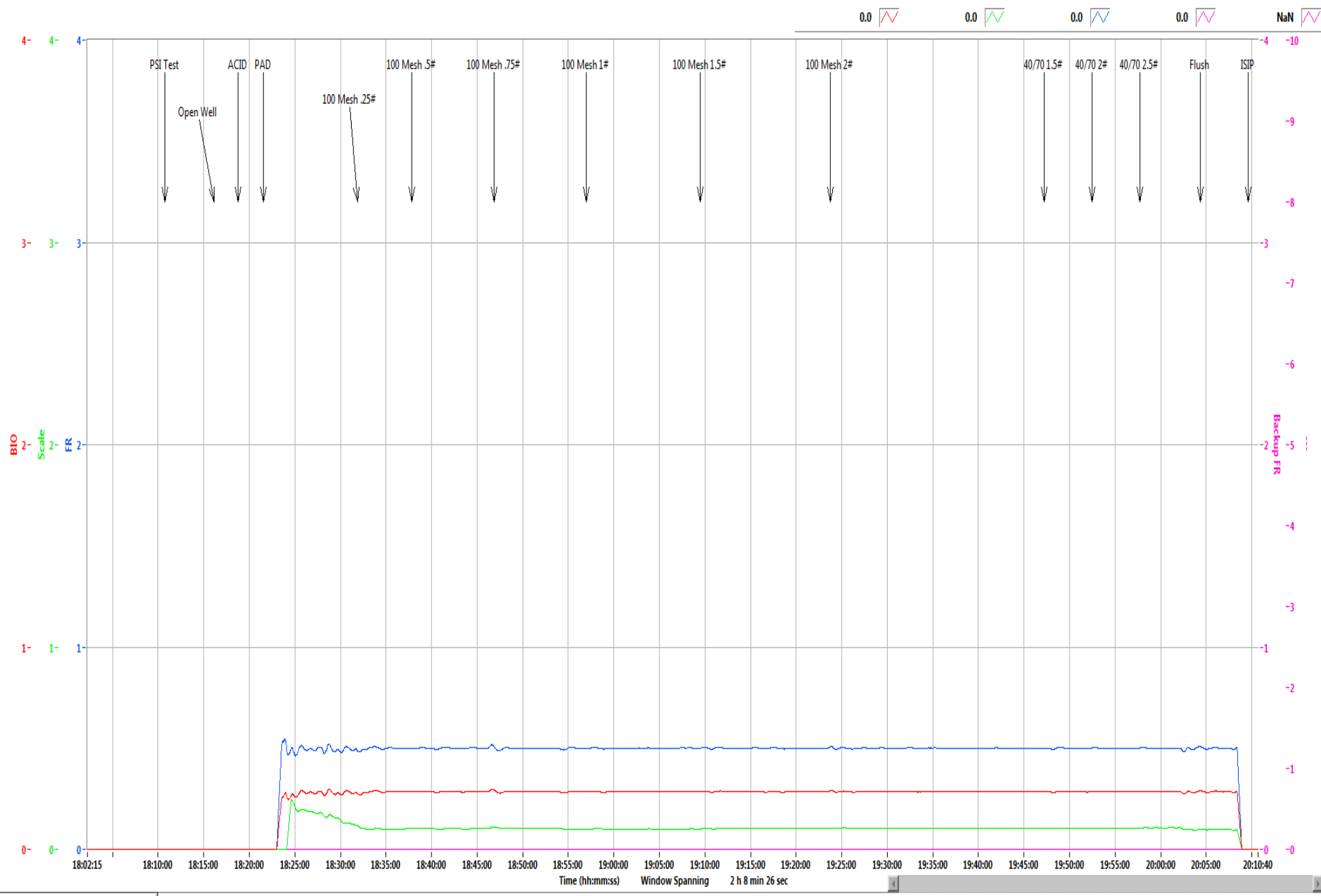


NNE
Bogges 9H
Stage 12
Producers Service Corp.

Post Stage Report
August 10, 2019



Refresh Graph



Refresh Graph

Boguess Pad	9H
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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: Bogges 9H
Stage No.: 12

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

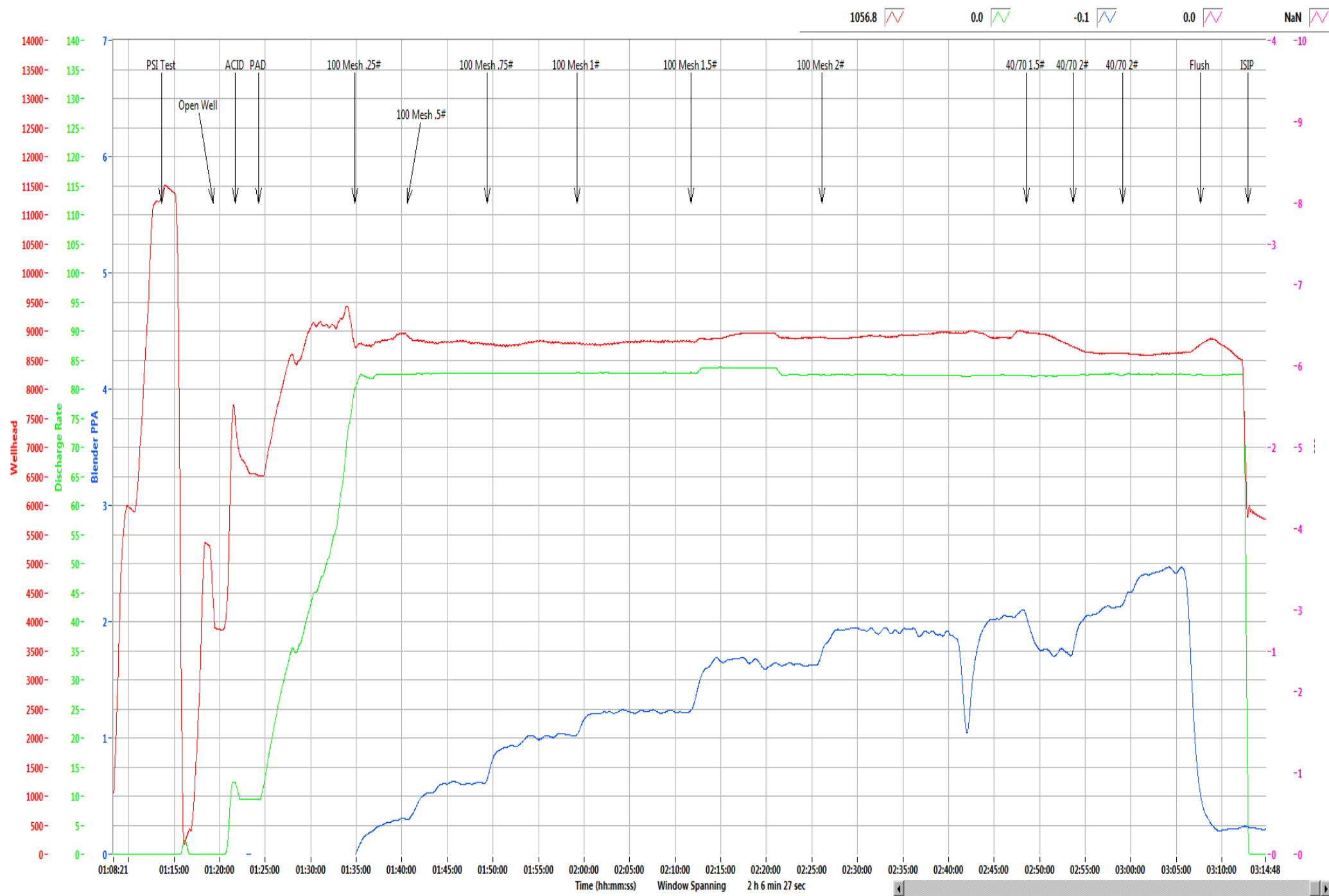
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	1500	GAL	\$ 1.25	\$ 1,875.00
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	3,075.00	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 DENSIOMETER		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) Customer Rep: Rob Wenger Customer Signature: [Signature]

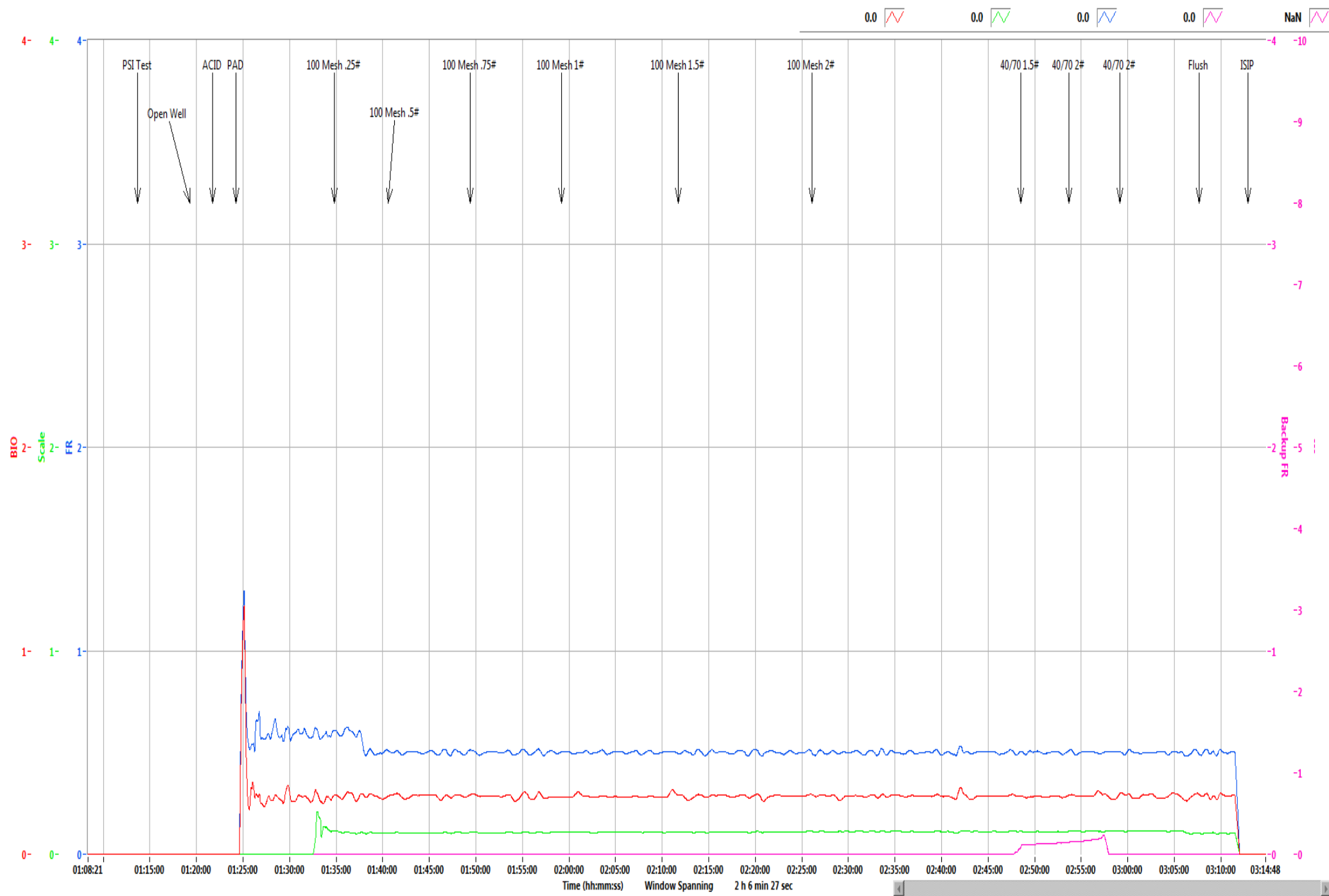


NNE
Boggess 9H
Stage 13
Producers Service Corp.

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

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	3,005.20	CWT	\$ 5.50	\$ 16,528.60
SAND 40/70	40/70 white	997.40	CWT	\$ 5.75	\$ 5,735.05
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	182	GAL	\$ 17.75	\$ 3,230.50
BIOC11219A	Biocide @ 0.25 GPT	88	GAL	\$ 16.00	\$ 1,408.00
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 DENSIOMETER		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	\$ -

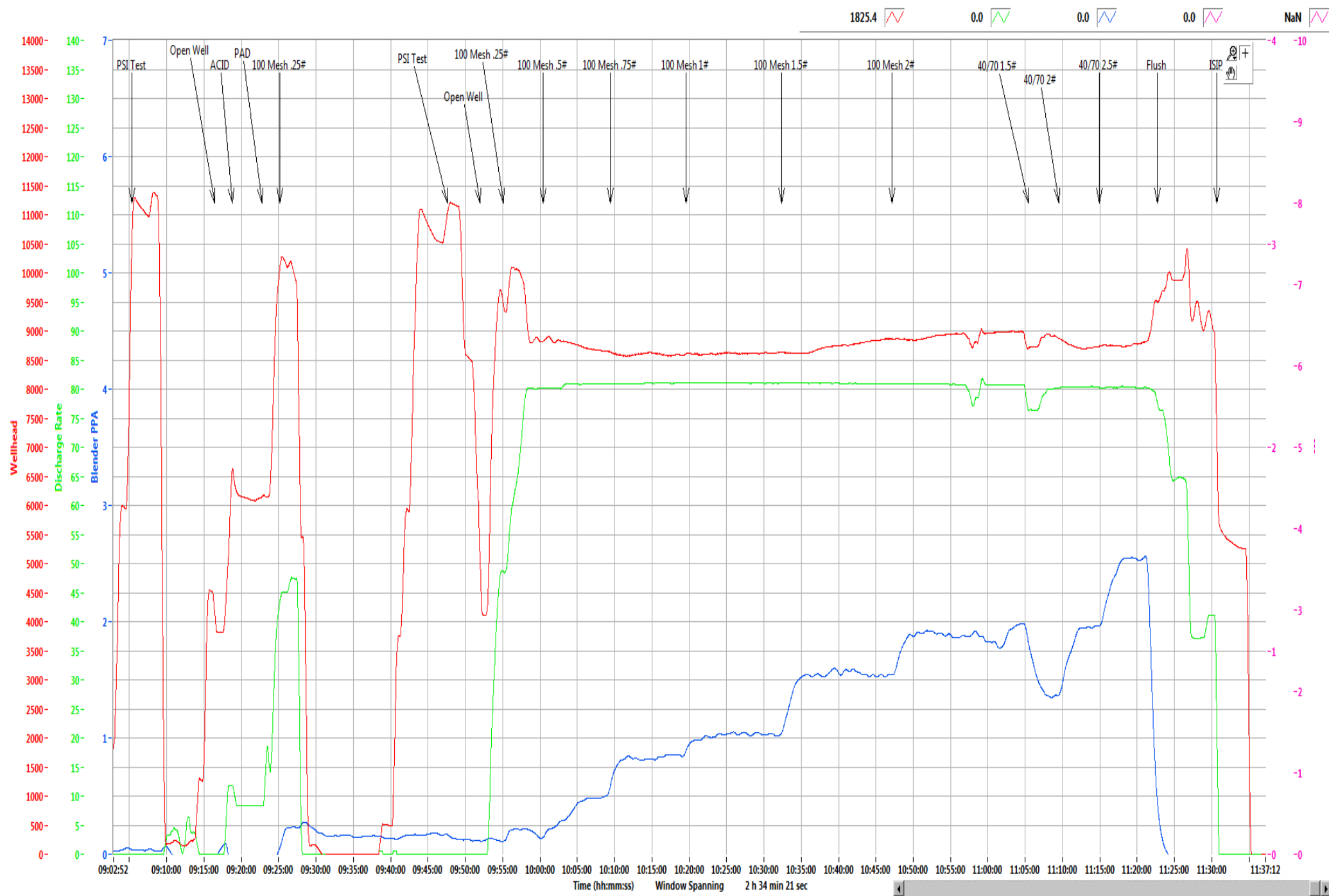
Total No Discount \$ 59,977.30
 25% Discount Applied \$ 14,994.33
 Net Stage Total \$ 44,982.98

(Print Name) Rob Cowger Customer Rep: Rob Cowger Customer Signature: [Signature]

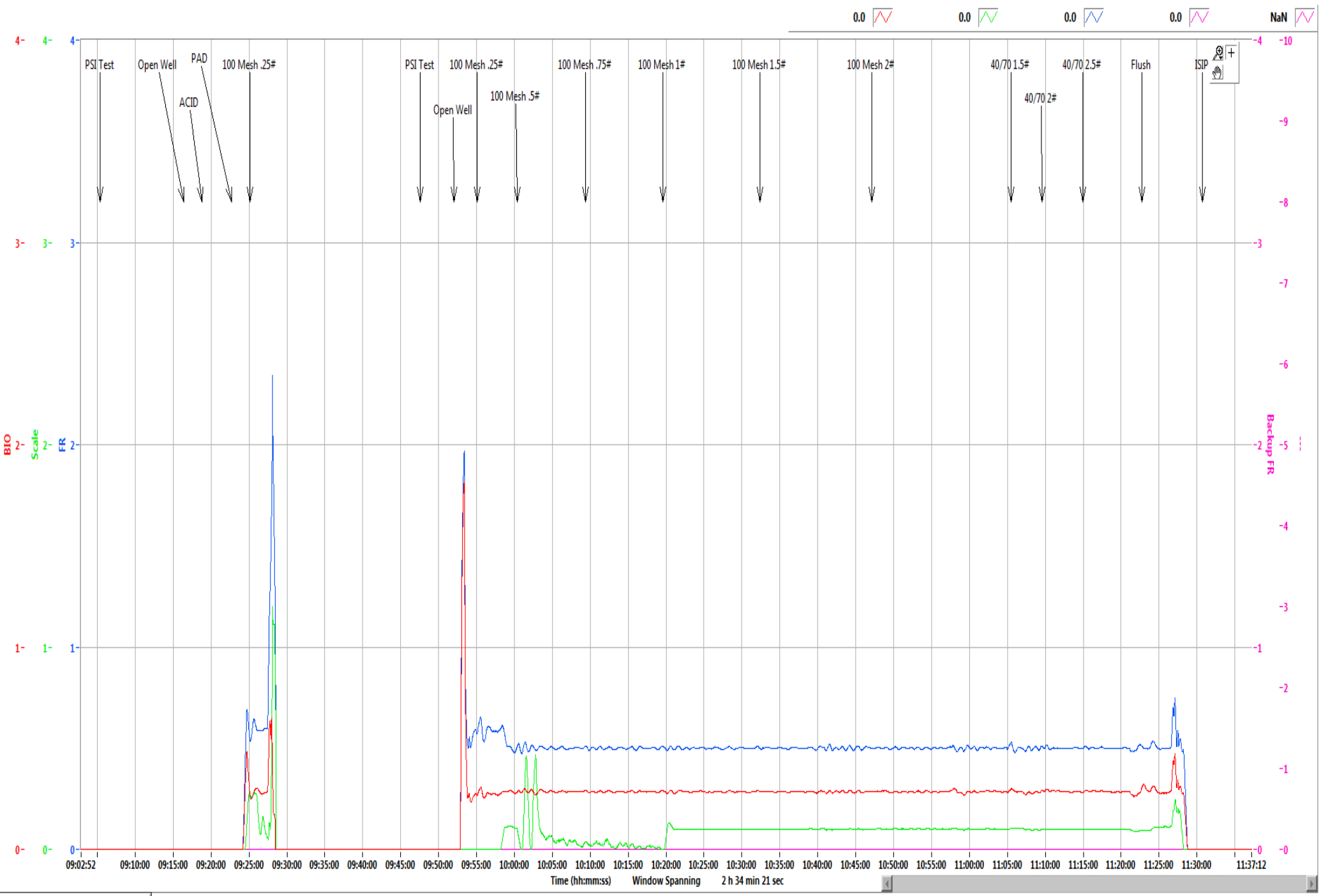


NNE
Boggess 9H
Stage 14
Producers Service Corp.

Post Stage Report
August 11, 2019



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: Bogges 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 DENSIOMETER		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) E. Boone Customer Signature: E. Boone
 Customer Rep: _____



NNE
Boggess 9H
Stage 15
Producers Service Corp.

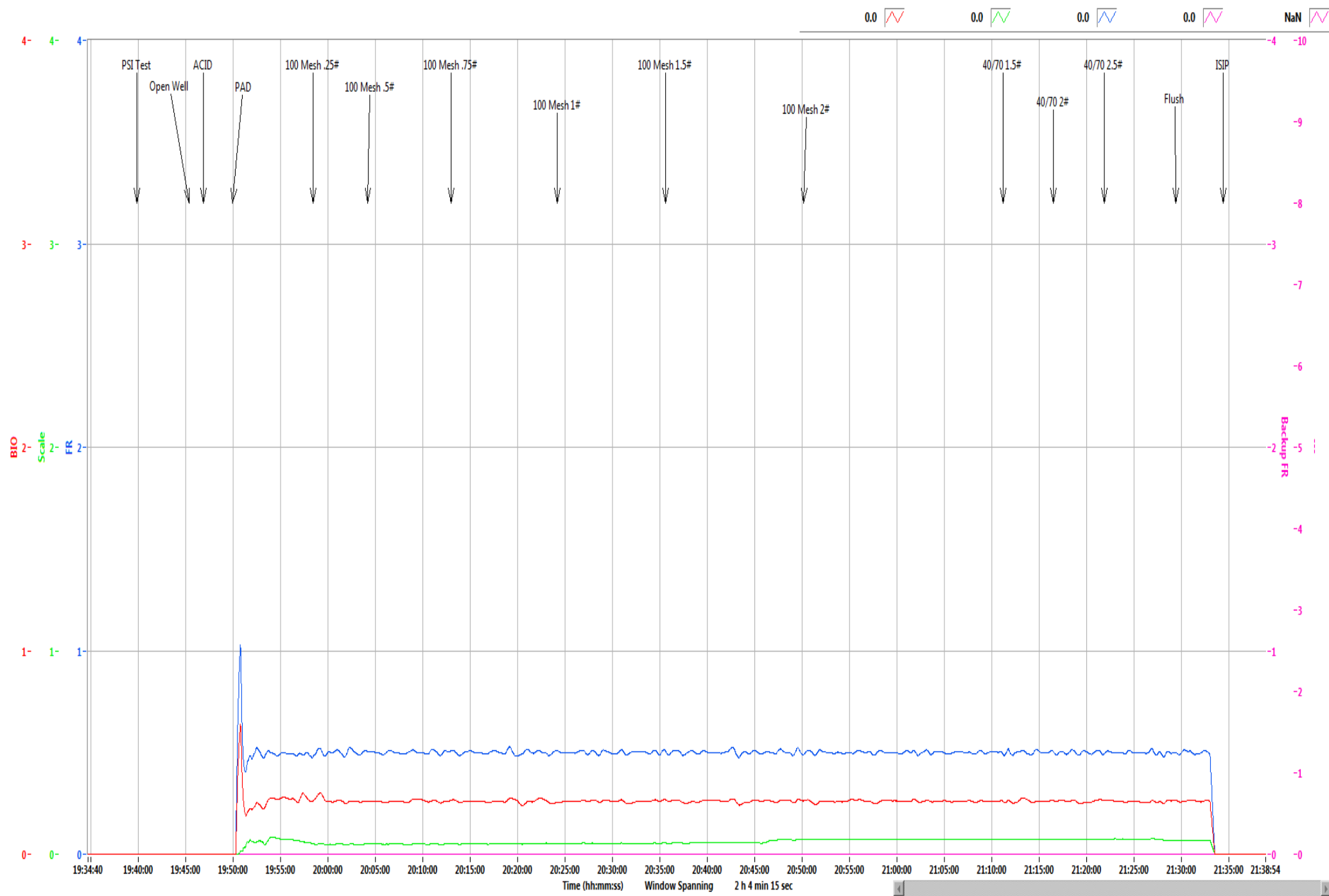
Post Stage Report
August 11, 2019



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Time (hh:mm:ss) Window Spanning 2 h 4 min 15 sec

Refresh Graph



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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: Bogges 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 DENSIOMETER		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

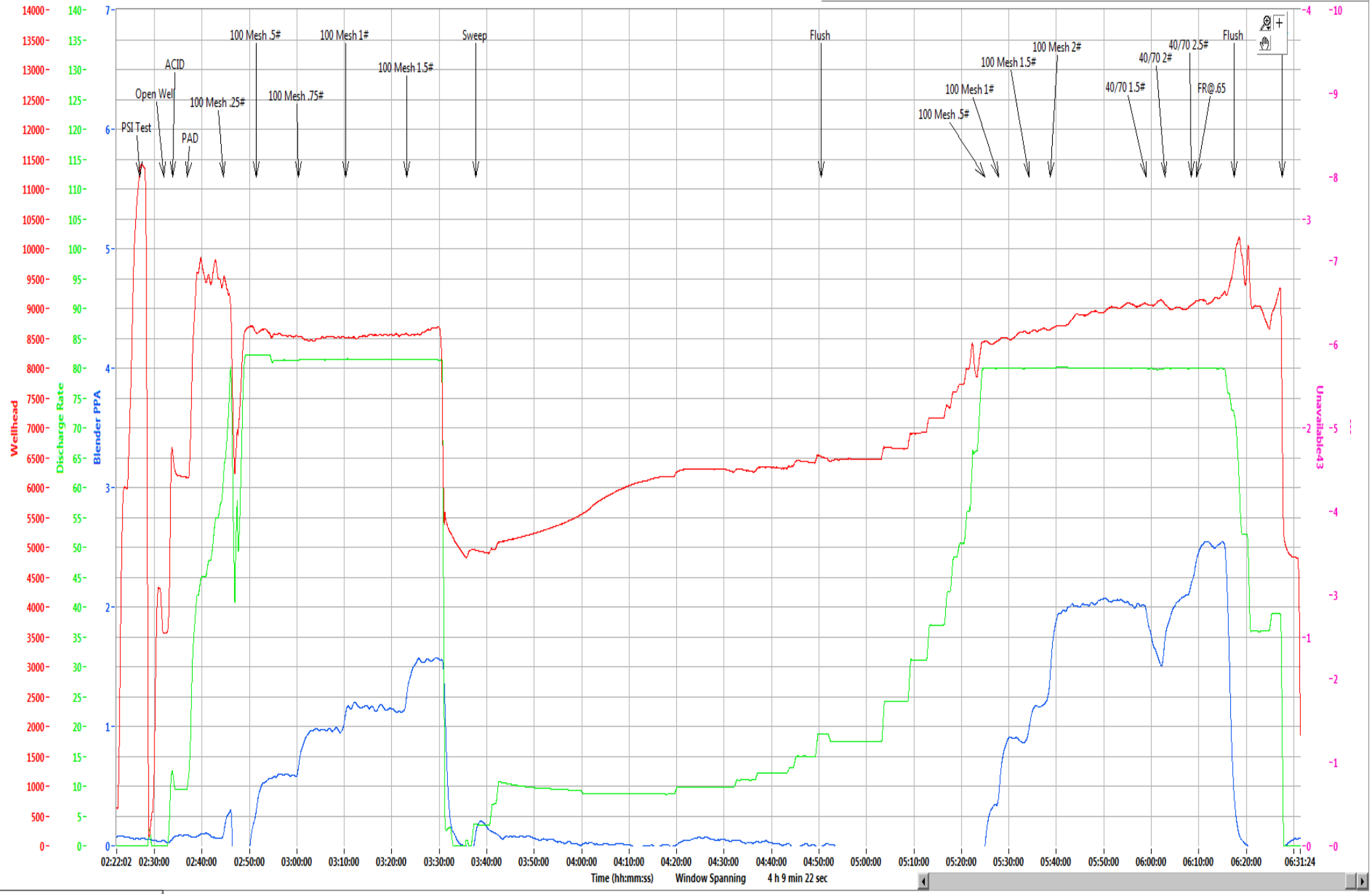
(Print Name) Rob Louger Customer Rep: Rob Louger Customer Signature: [Signature]



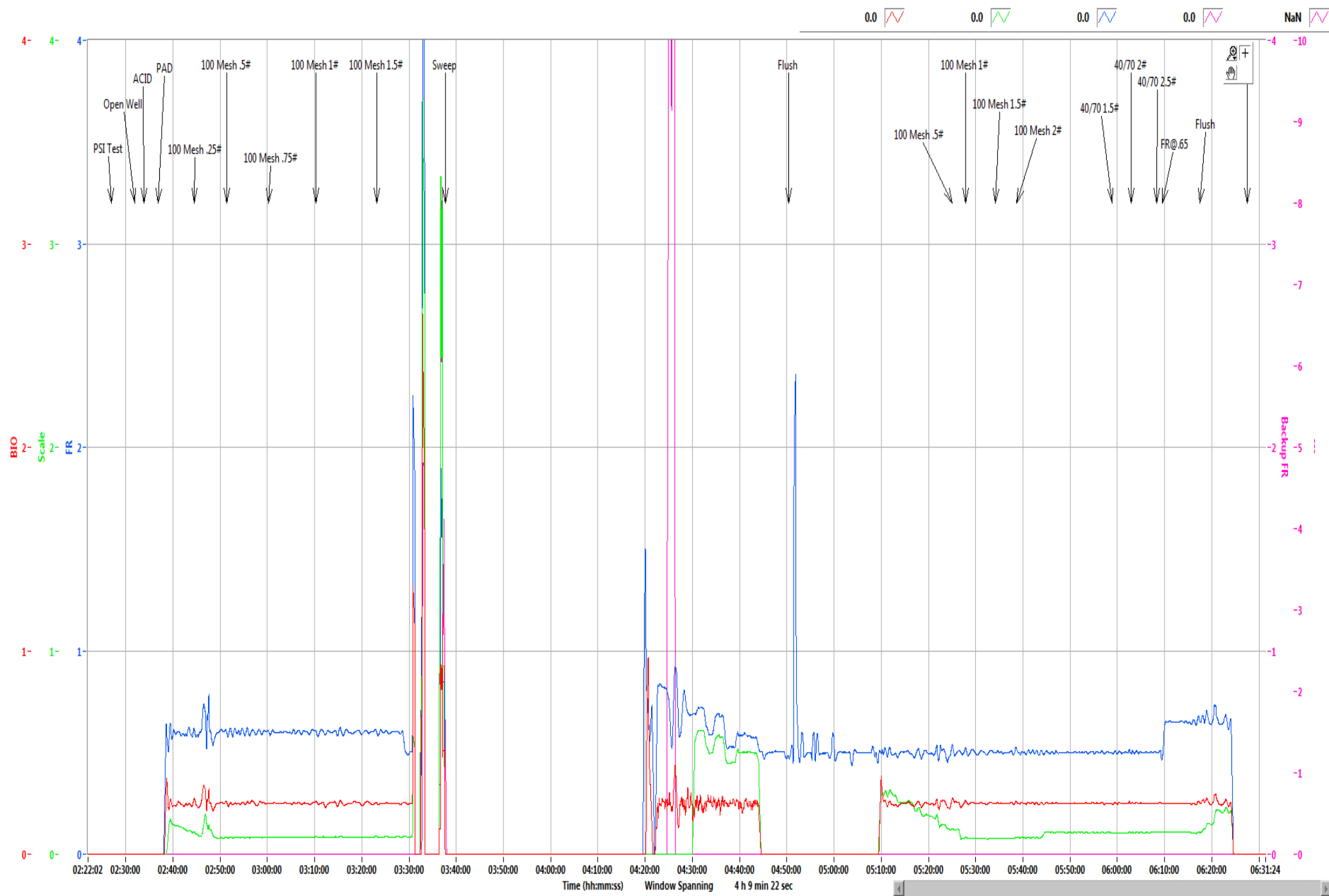
NNE
Bogges 9H
Stage 16
Producers Service Corp.

Post Stage Report
August 12, 2019

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Refresh Graph



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: Bogges 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 DENSIOMETER		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 Rep:

E. Boone

Customer Signature:

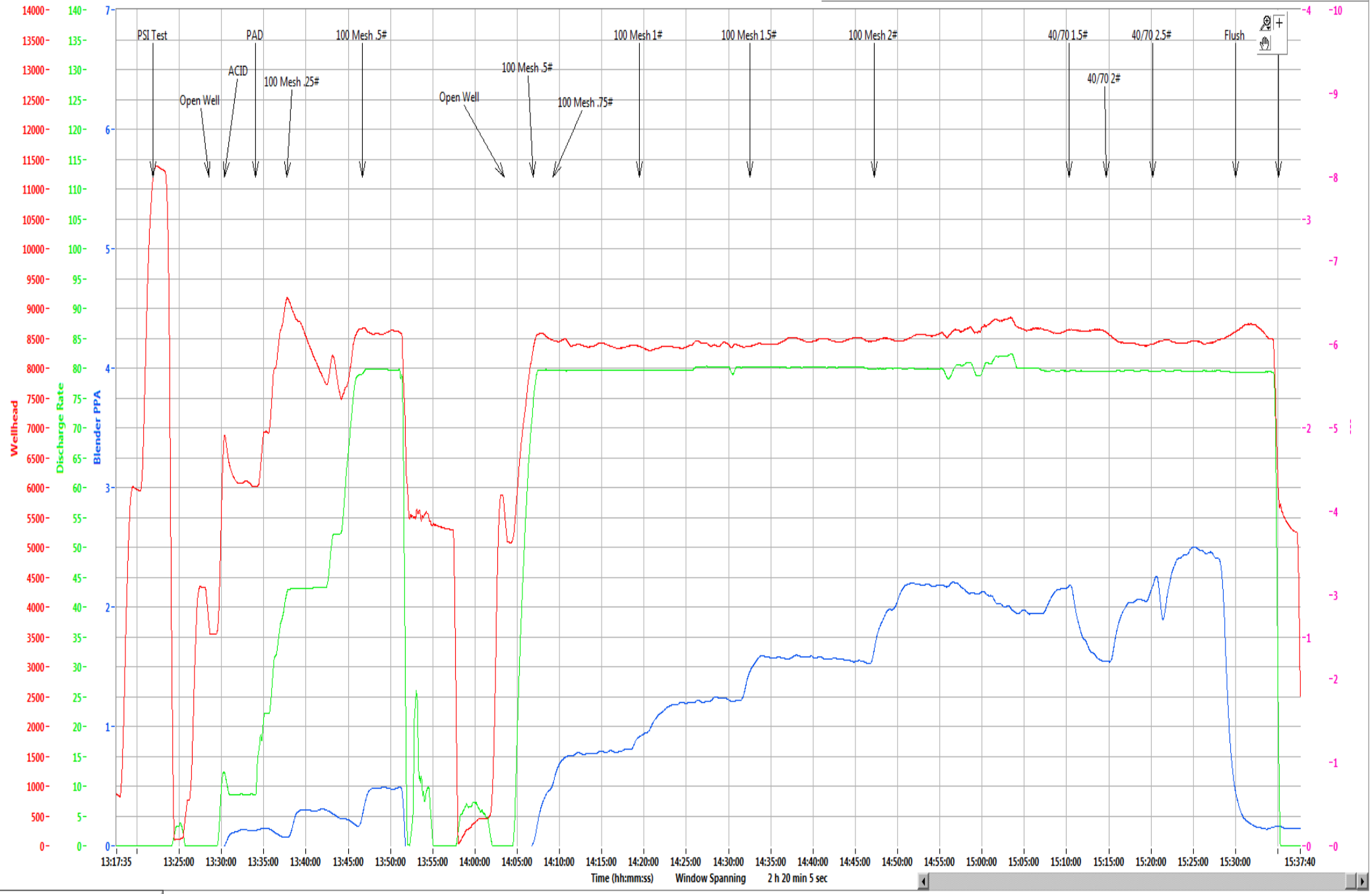
E. Boone



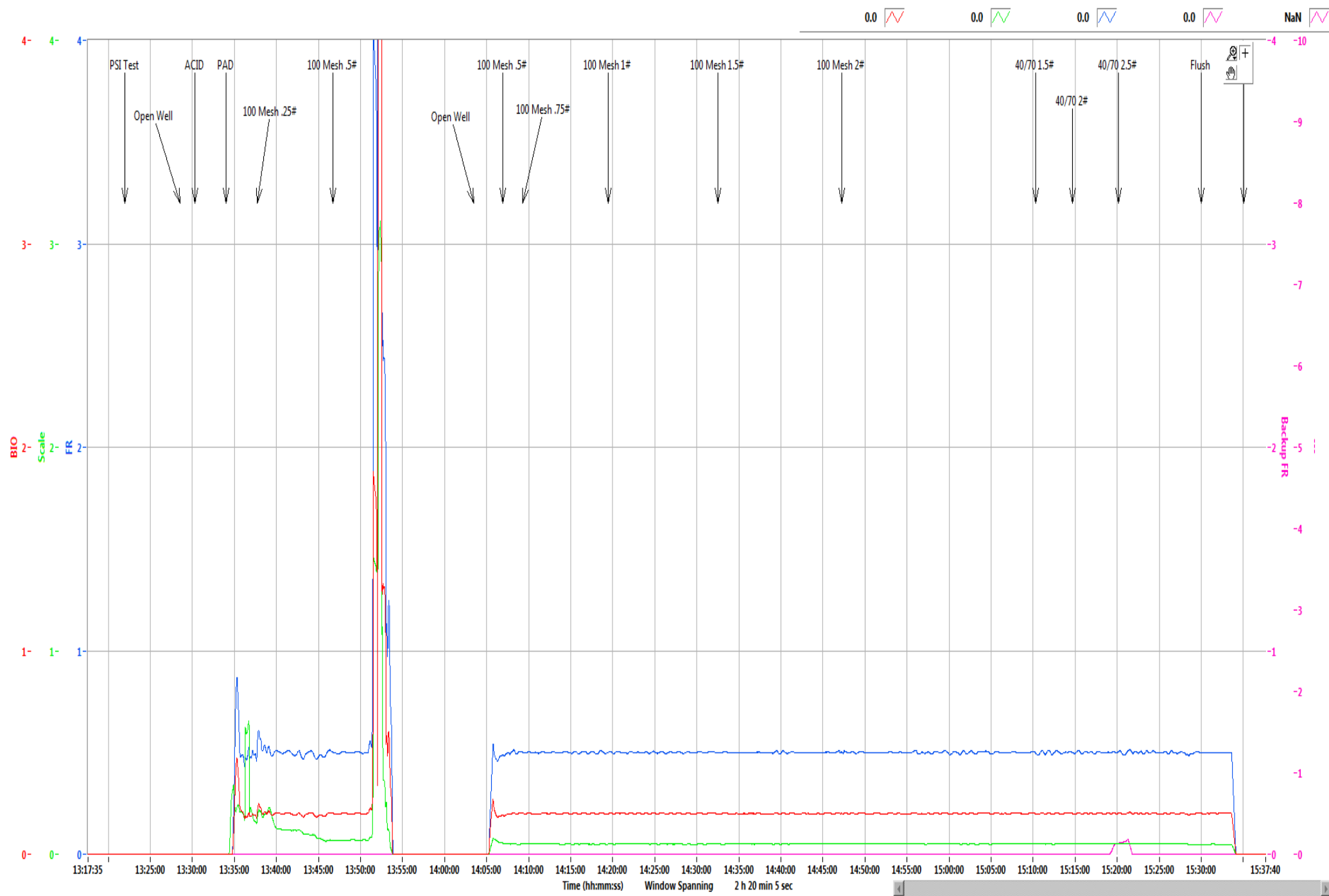
NNE
Boggess 9H
Stage 17
Producers Service Corp.

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: Bogges 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 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	3,005.20	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 Rep:

E. Boone

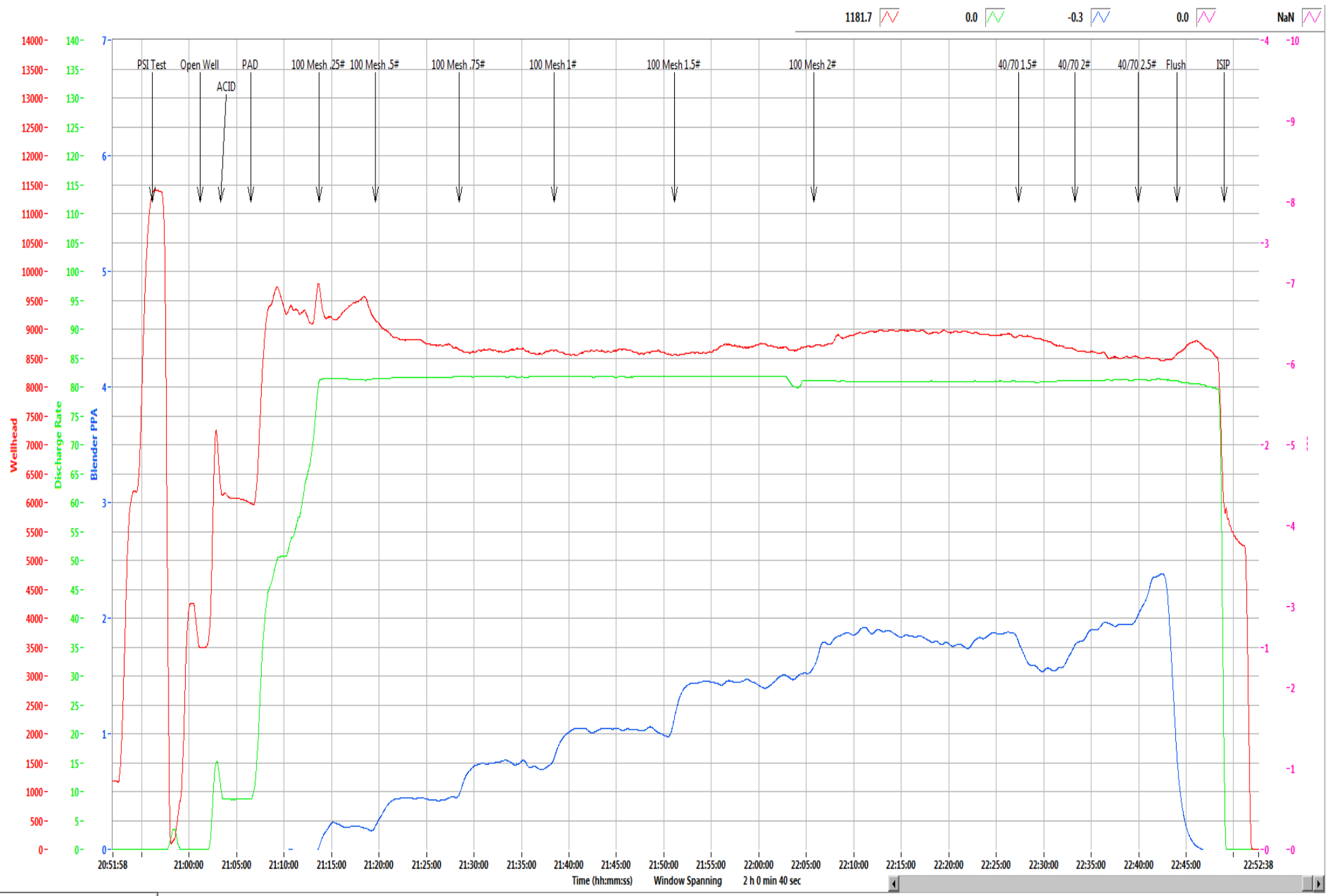
Customer Signature

E. Boone

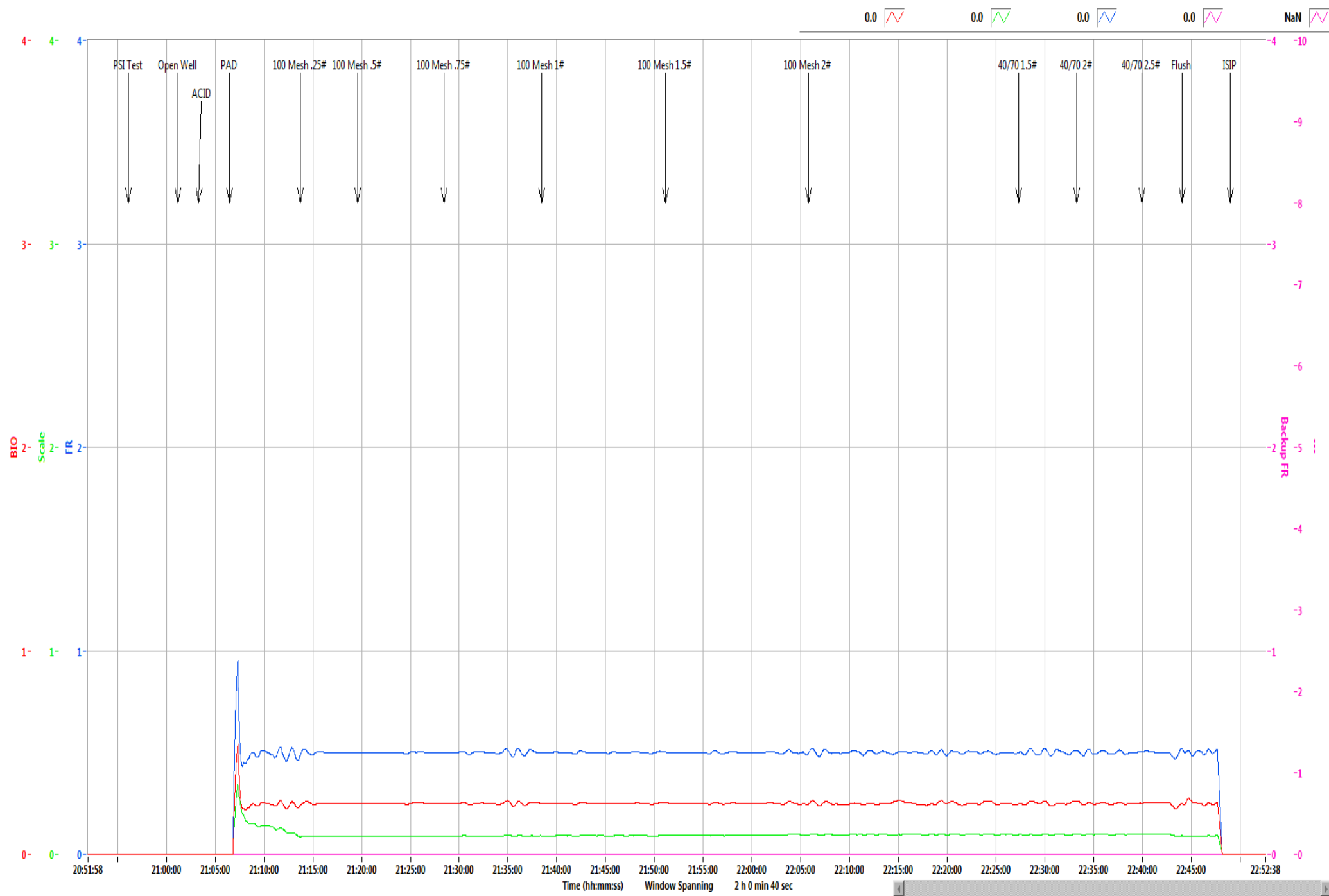


NNE
Boggess 9H
Stage 18
Producers Service Corp.

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: Bogges 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 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	3,005.60	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 DENSIOMETER		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

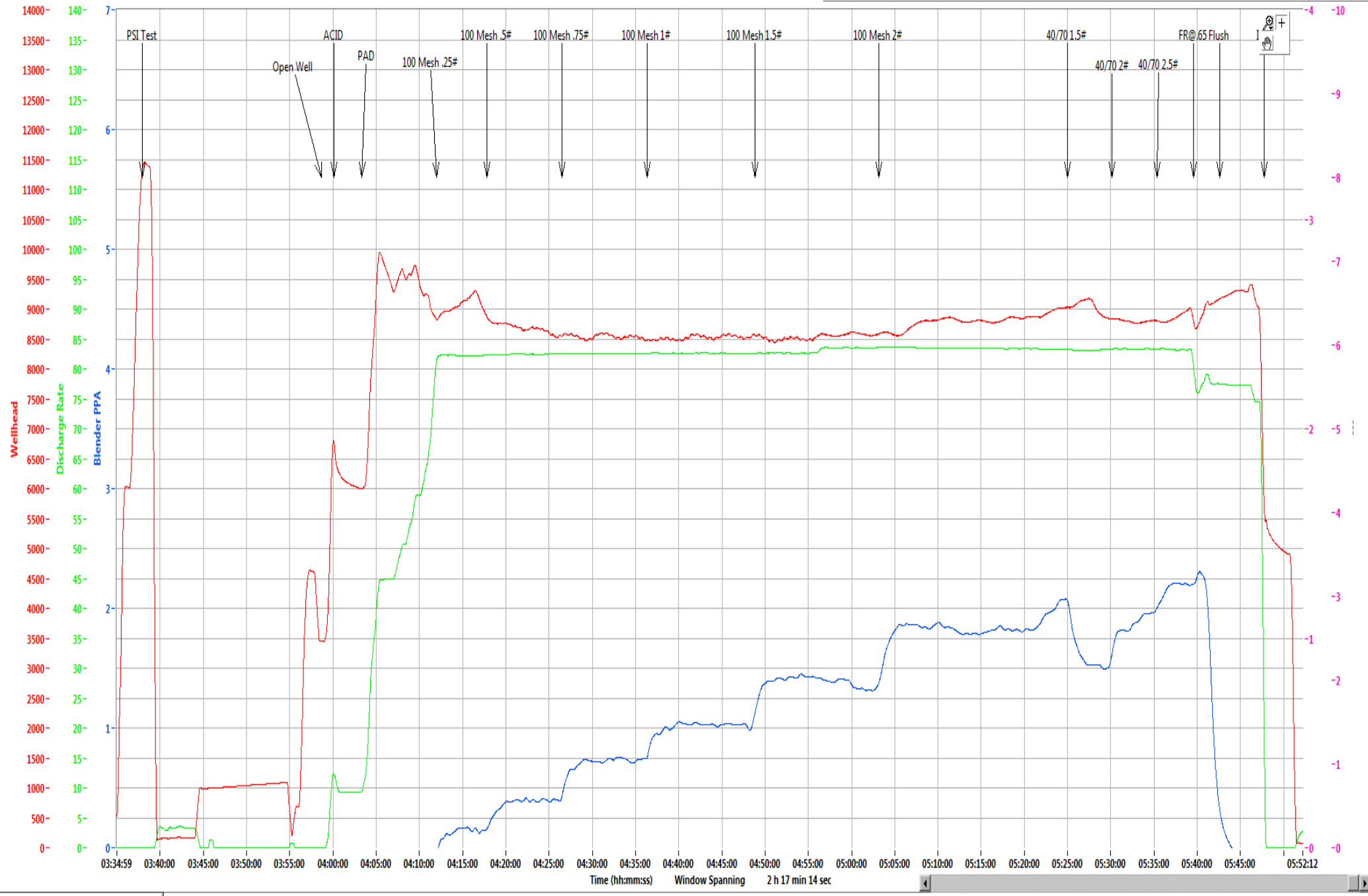
(Print Name) Customer Rep: Rob Cowger Customer Signature: [Signature]



NNE
Boggess 9H
Stage 19
Producers Service Corp.

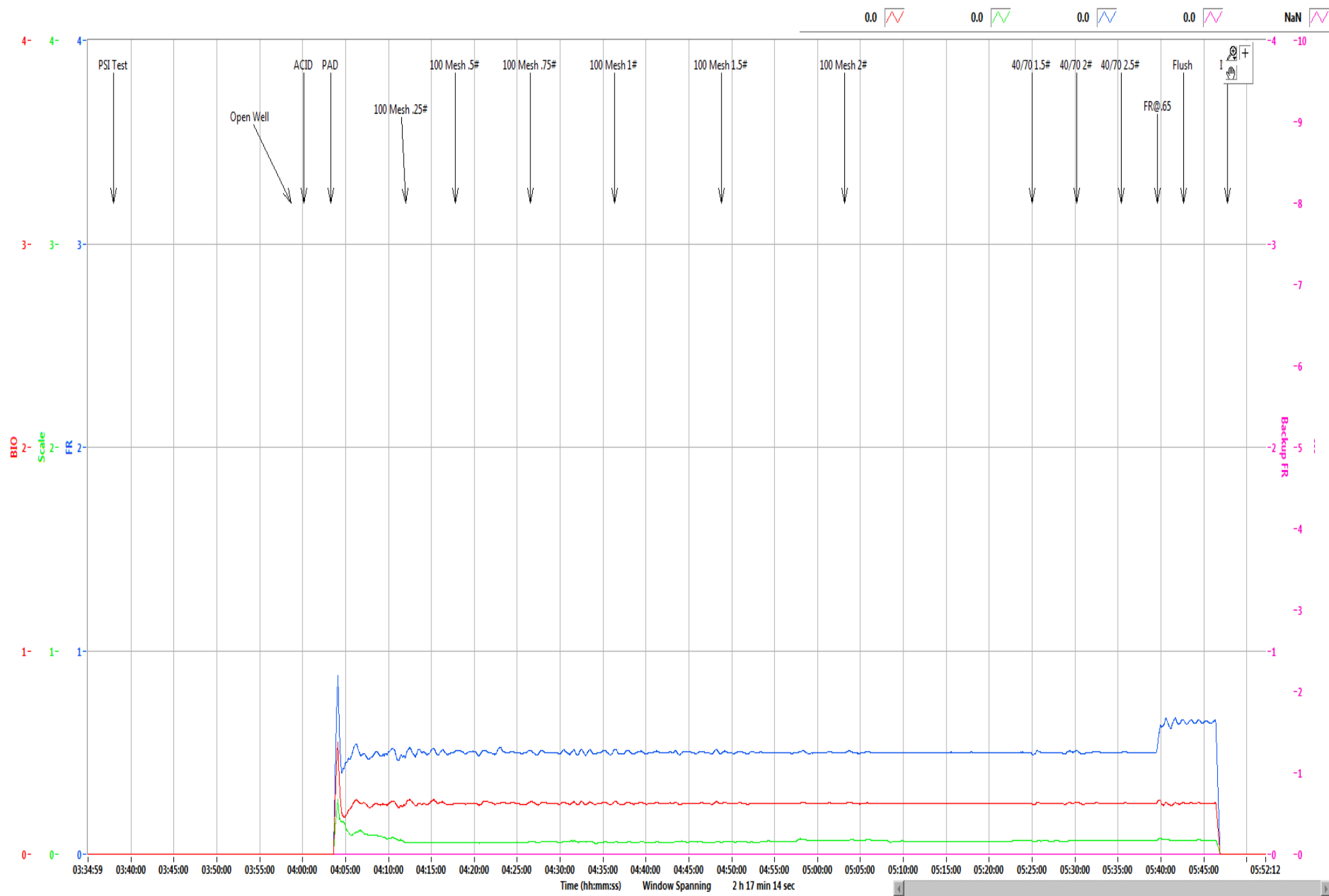
Post Stage Report
August 13, 2019

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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: Bogges 9H
 Stage No.: 19

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	3,001.80	CWT	\$ 5.50	\$ 16,509.90
SAND 40/70	40/70 white	1,002.60	CWT	\$ 5.75	\$ 5,764.95
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	171	GAL	\$ 17.75	\$ 3,035.25
BIOC11219A	Biocide @ 0.25 GPT	84	GAL	\$ 16.00	\$ 1,344.00
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 DENSIOMETER		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		200.22	TON	\$ 55.00	\$ 11,012.10
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 59,766.20
 25% Discount Applied \$ 14,941.55
 Net Stage Total \$ 44,824.65

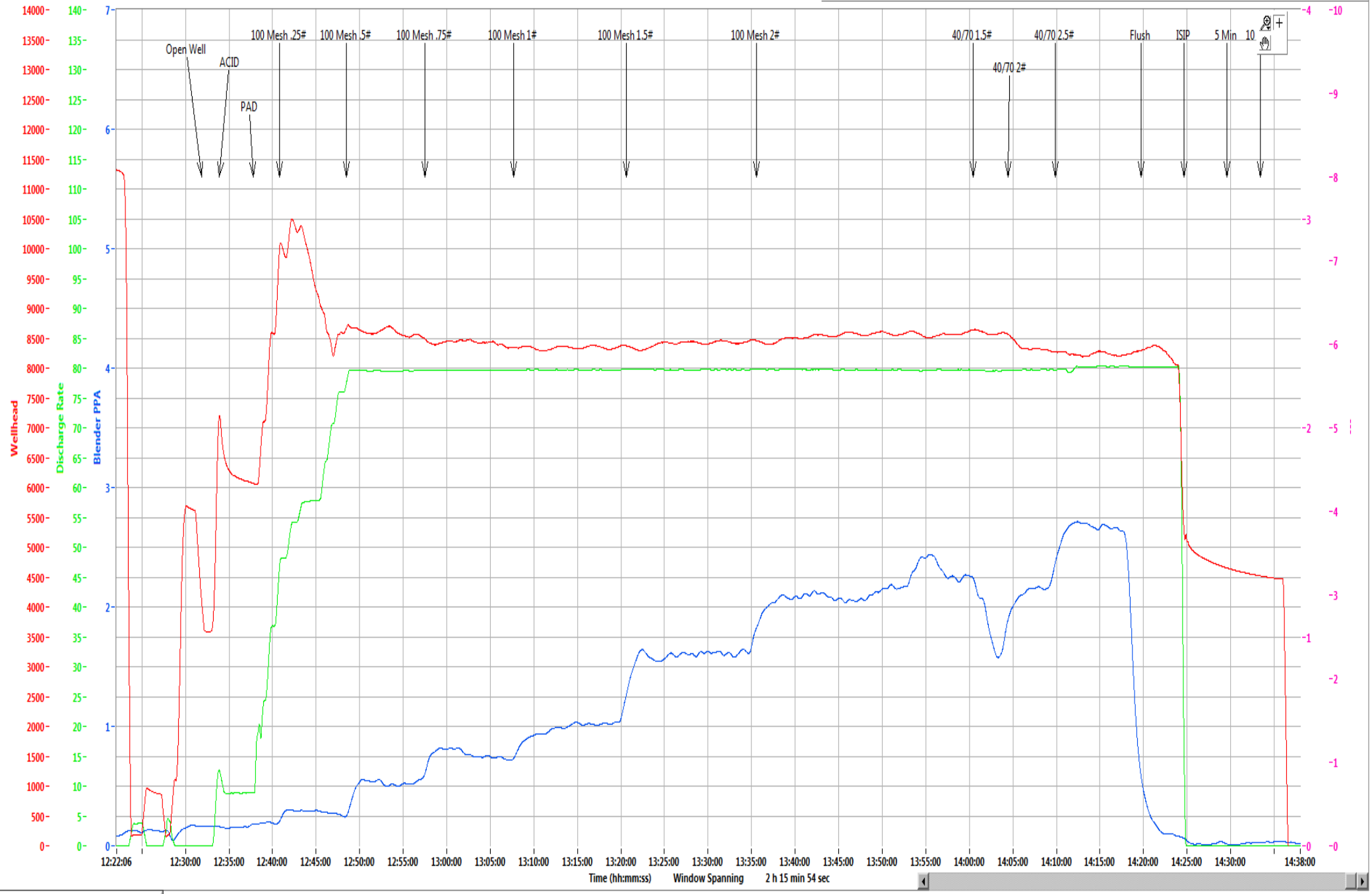
(Print Name) E. Boone Customer Rep: E. Boone Customer Signature: [Signature]



NNE
Boggess 9H
Stage 20
Producers Service Corp.

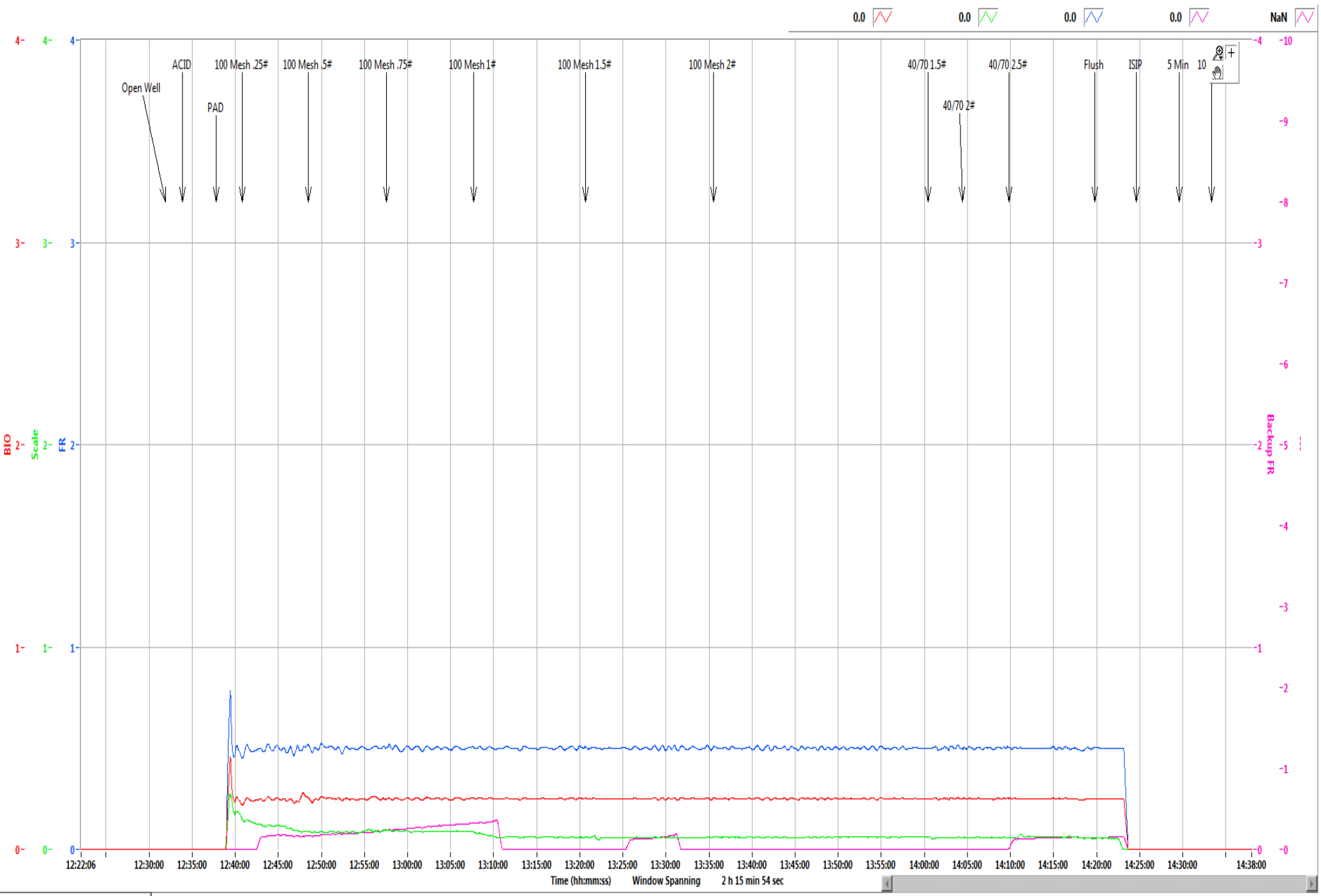
Post Stage Report
August 13, 2019

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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: Bogges 9H
 Stage No.: 20

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 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	2,971.80	CWT	\$ 5.50	\$ 16,344.90
SAND 40/70	40/70 white	1,061.00	CWT	\$ 5.75	\$ 6,100.75
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	170	GAL	\$ 17.75	\$ 3,017.50
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 DENSIOMETER		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		201.64	TON	\$ 55.00	\$ 11,090.20
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 60,673.35
 25% Discount Applied \$ 15,168.34
 Net Stage Total \$ 45,505.01

(Print Name) E. Boone
 Customer Rep: _____

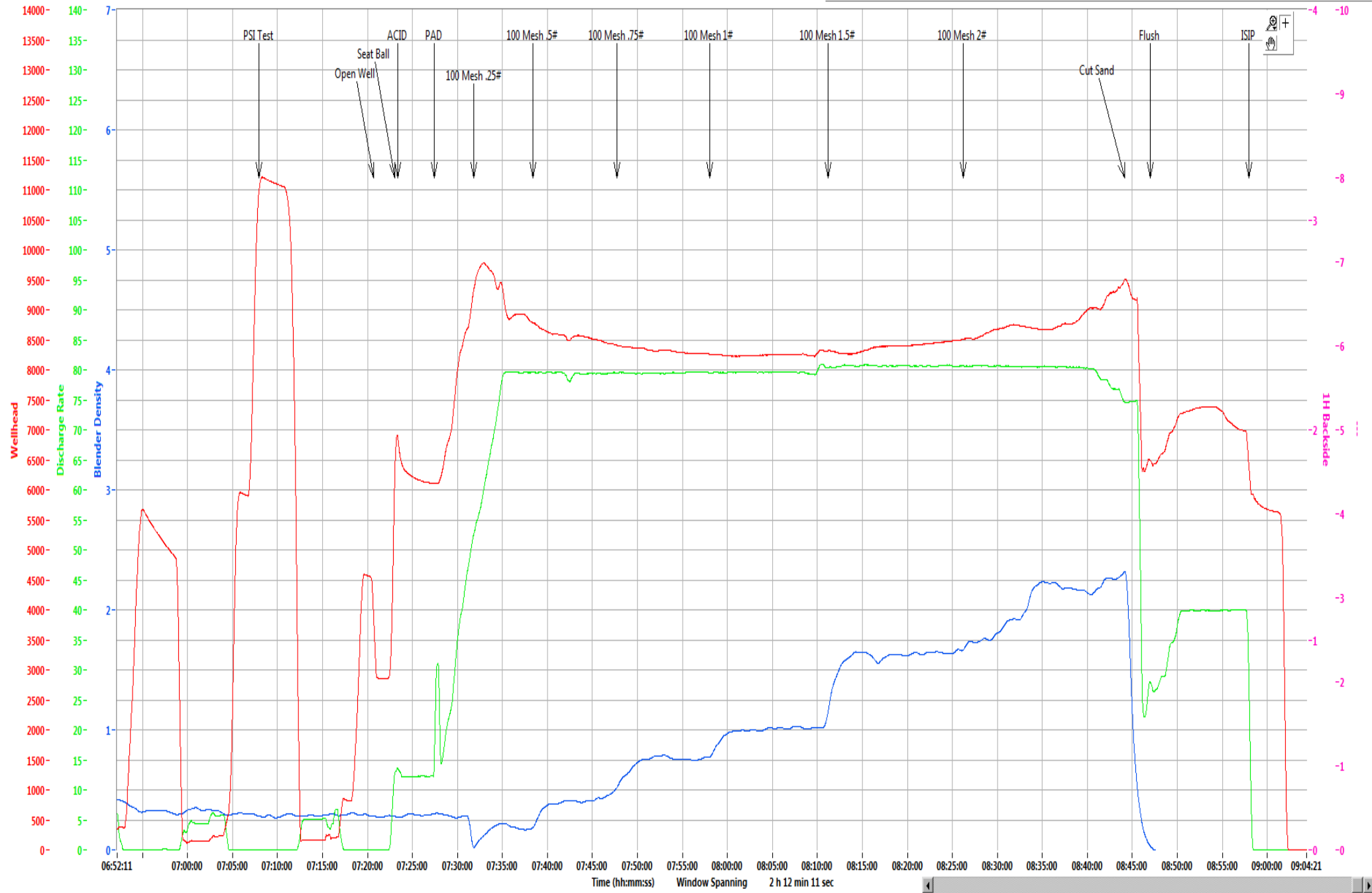
Customer Signature: *E. Boone*



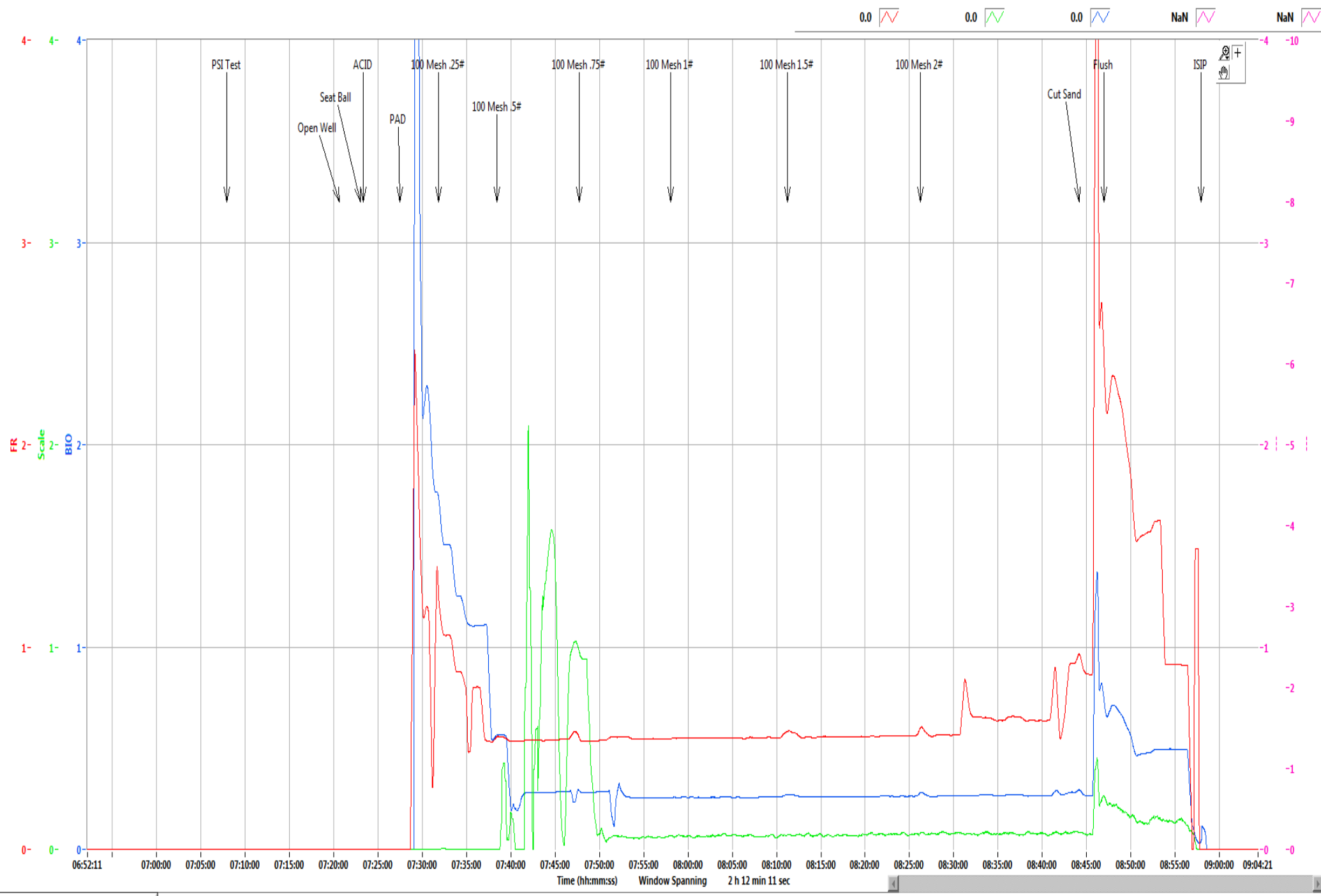
NNE
Boggess 9H
Stage 21
Producers Service Corp.

Post Stage Report
August 15, 2019

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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: Bogges 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 DENSIOMETER		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 Rep:

E. Boone

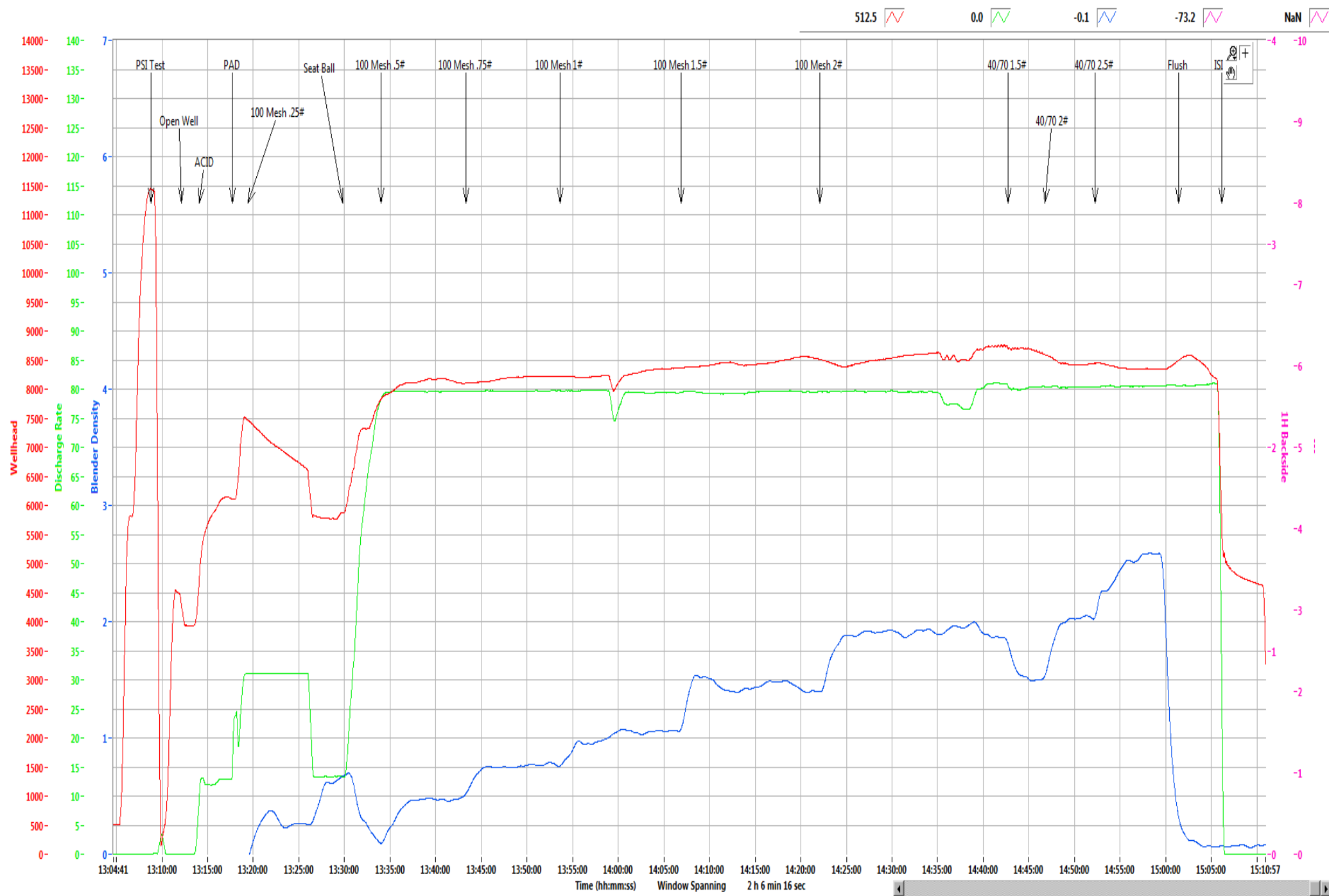
Customer Signature:

E. Boone

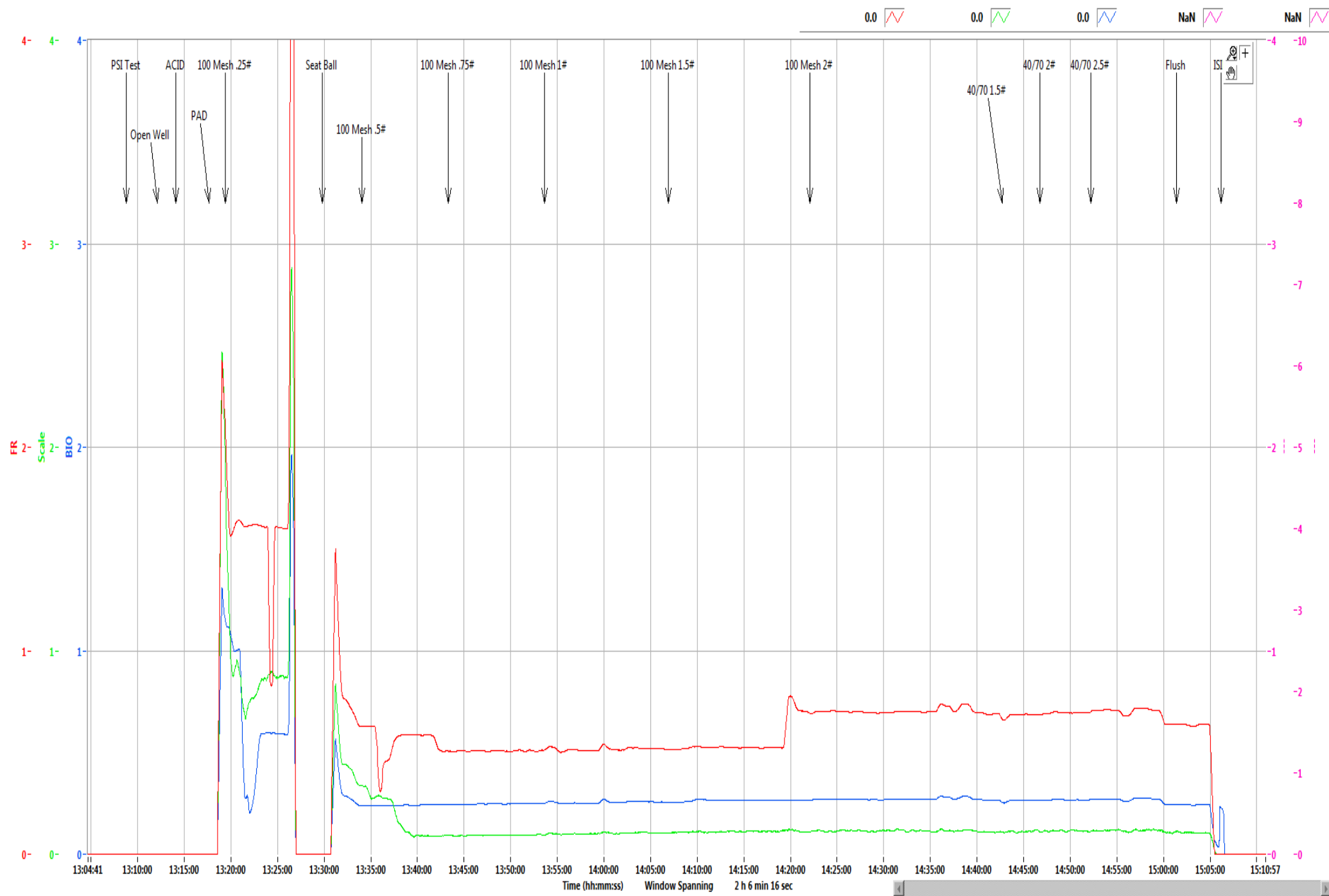


NNE
Boggess 9H
Stage 22
Producers Service Corp.

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: Bogges 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 Rep:

E. Boone

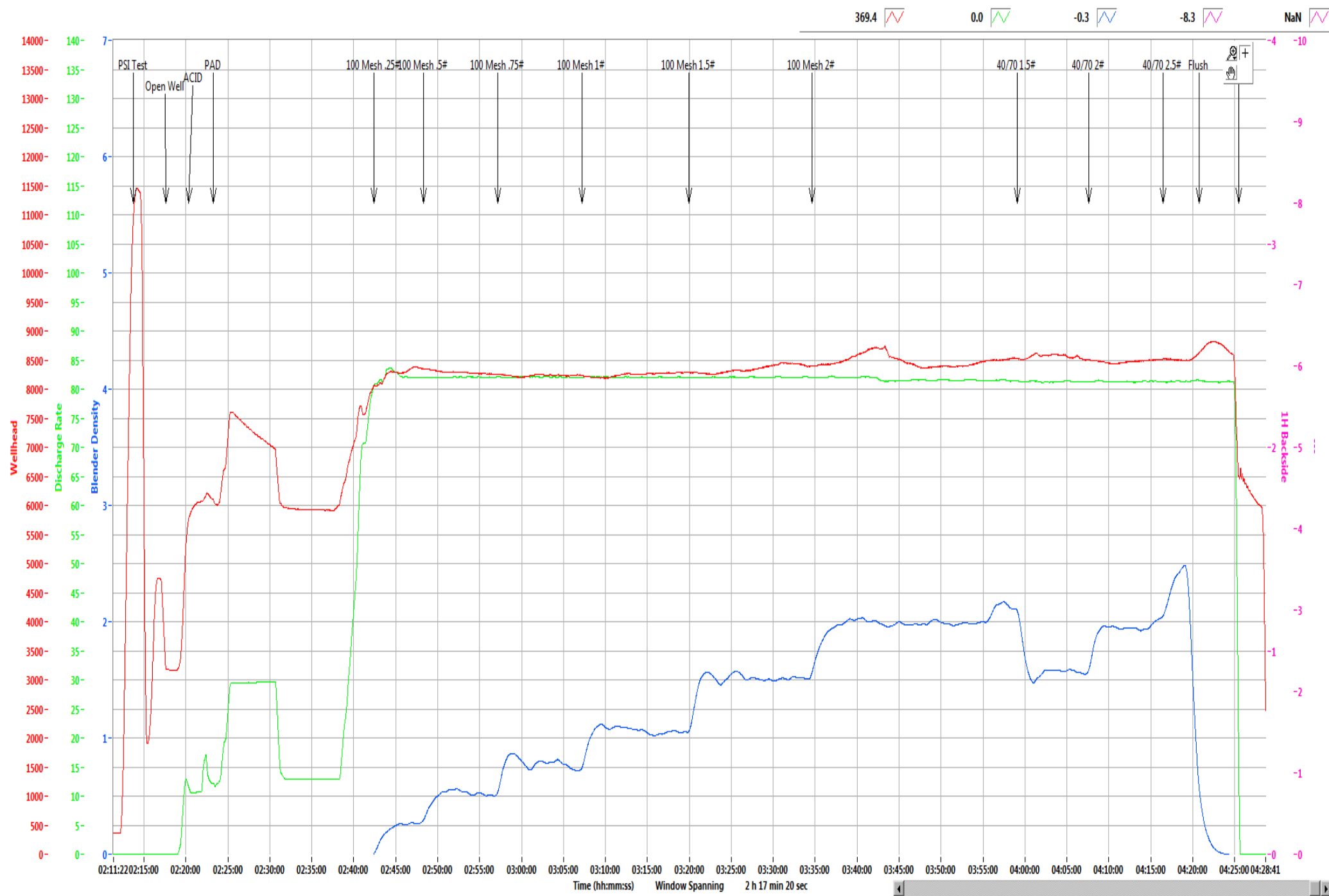
Customer Signature:

E. Boone

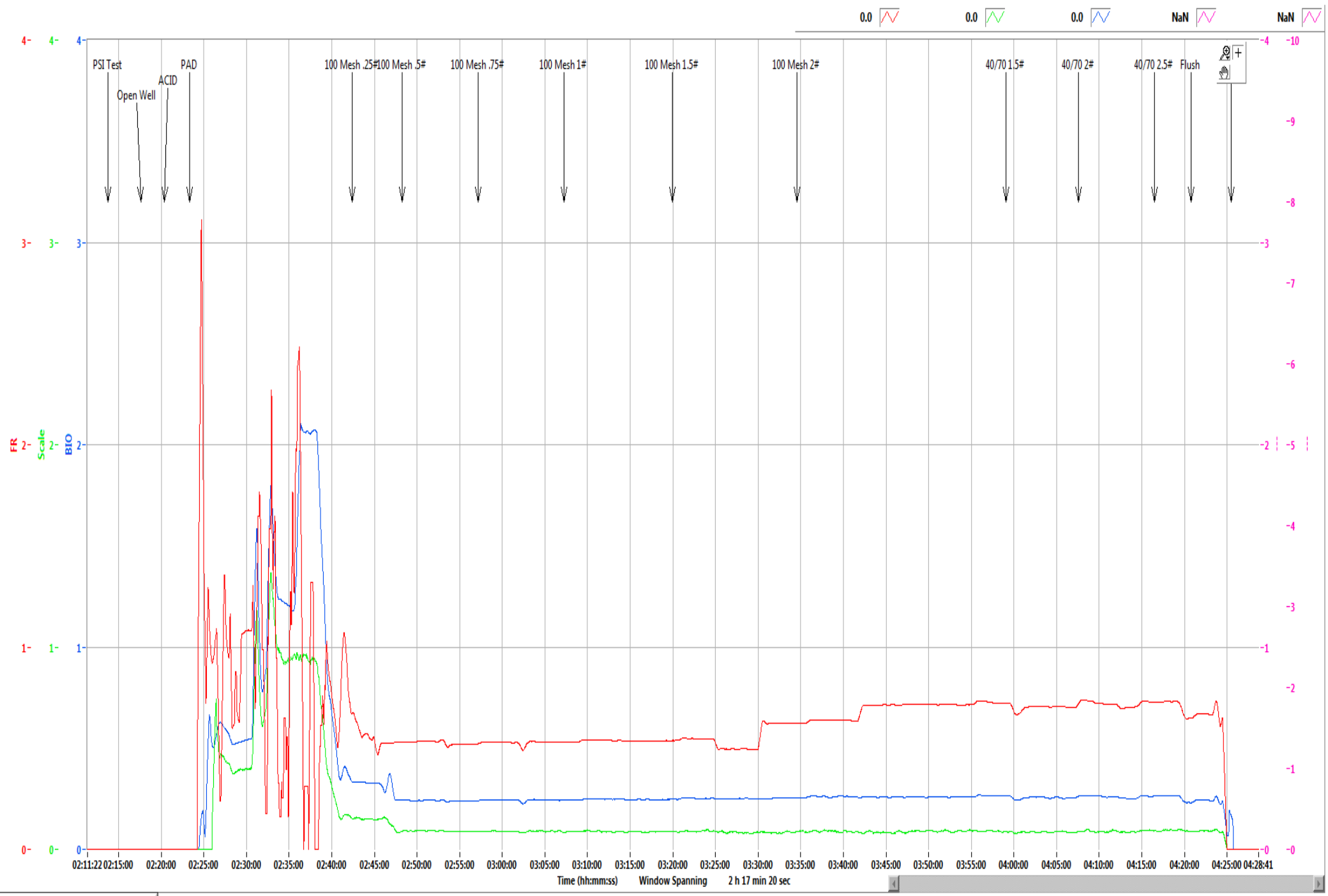


NNE
Boggess 9H
Stage 23
Producers Service Corp.

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: Bogges 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	3,000.60	CWT	\$ 5.50	\$ 16,503.30
SAND 40/70	40/70 white	1,005.60	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

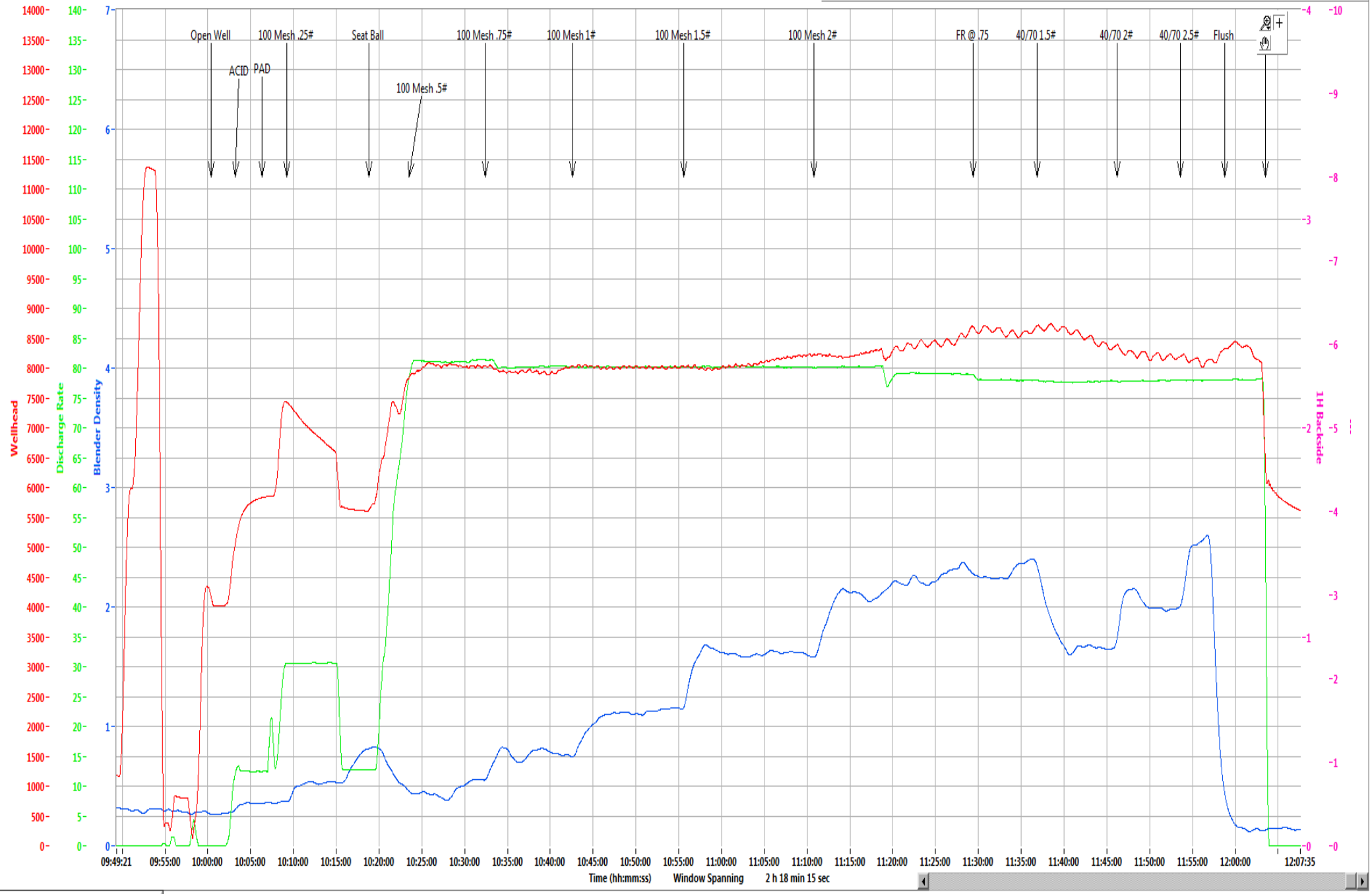
(Print Name) Rob Cowger Customer Rep: _____ Customer Signature: [Signature]



NNE
Boggess 9H
Stage 24
Producers Service Corp.

Post Stage Report
August 16, 2019

1180.3 0.0 0.3 -48.9 NaN



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: Bogges 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 DENSIOMETER		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

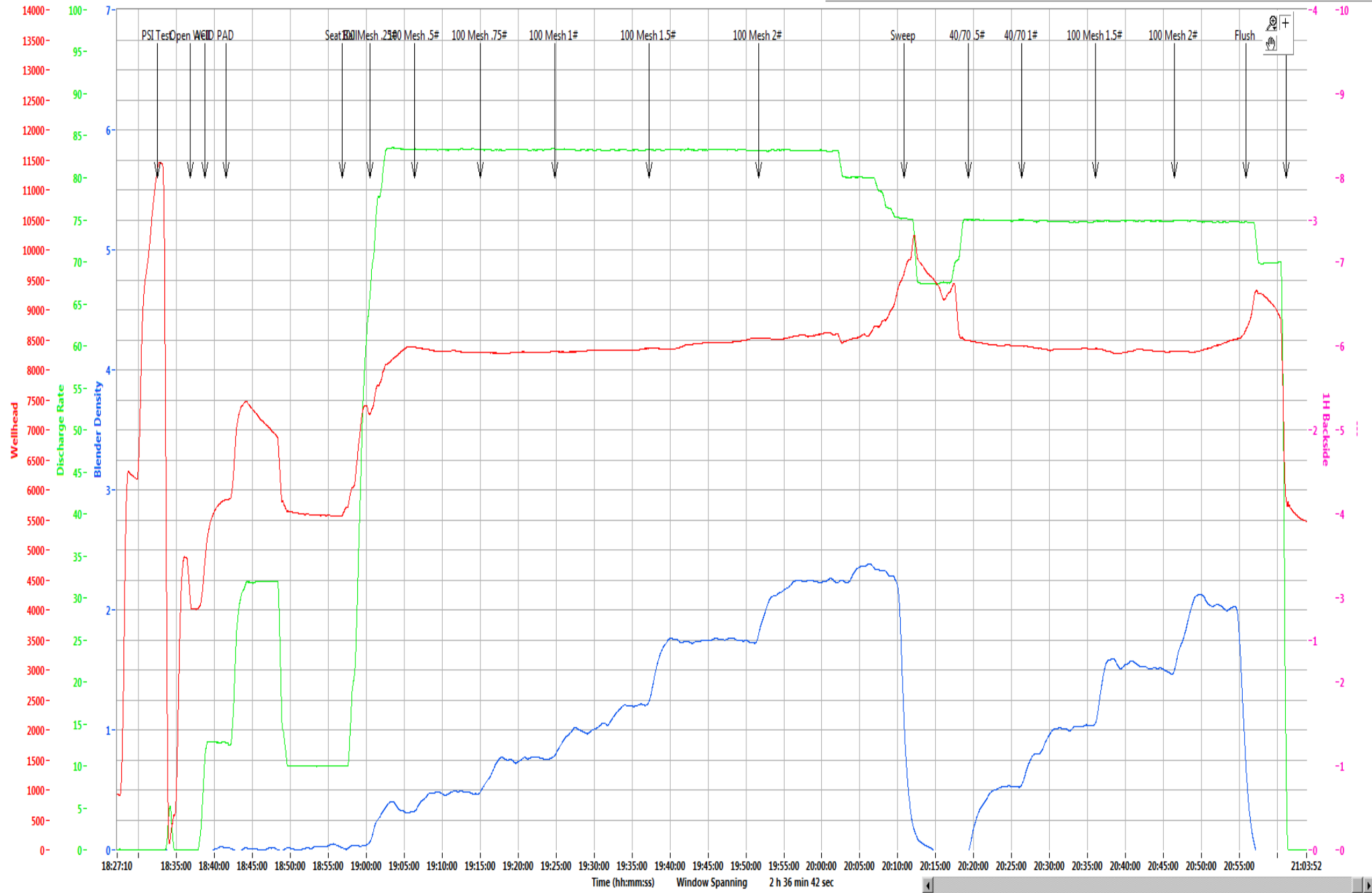
(Print Name) E. Boone Customer Rep: E. Boone Customer Signature: E. Boone



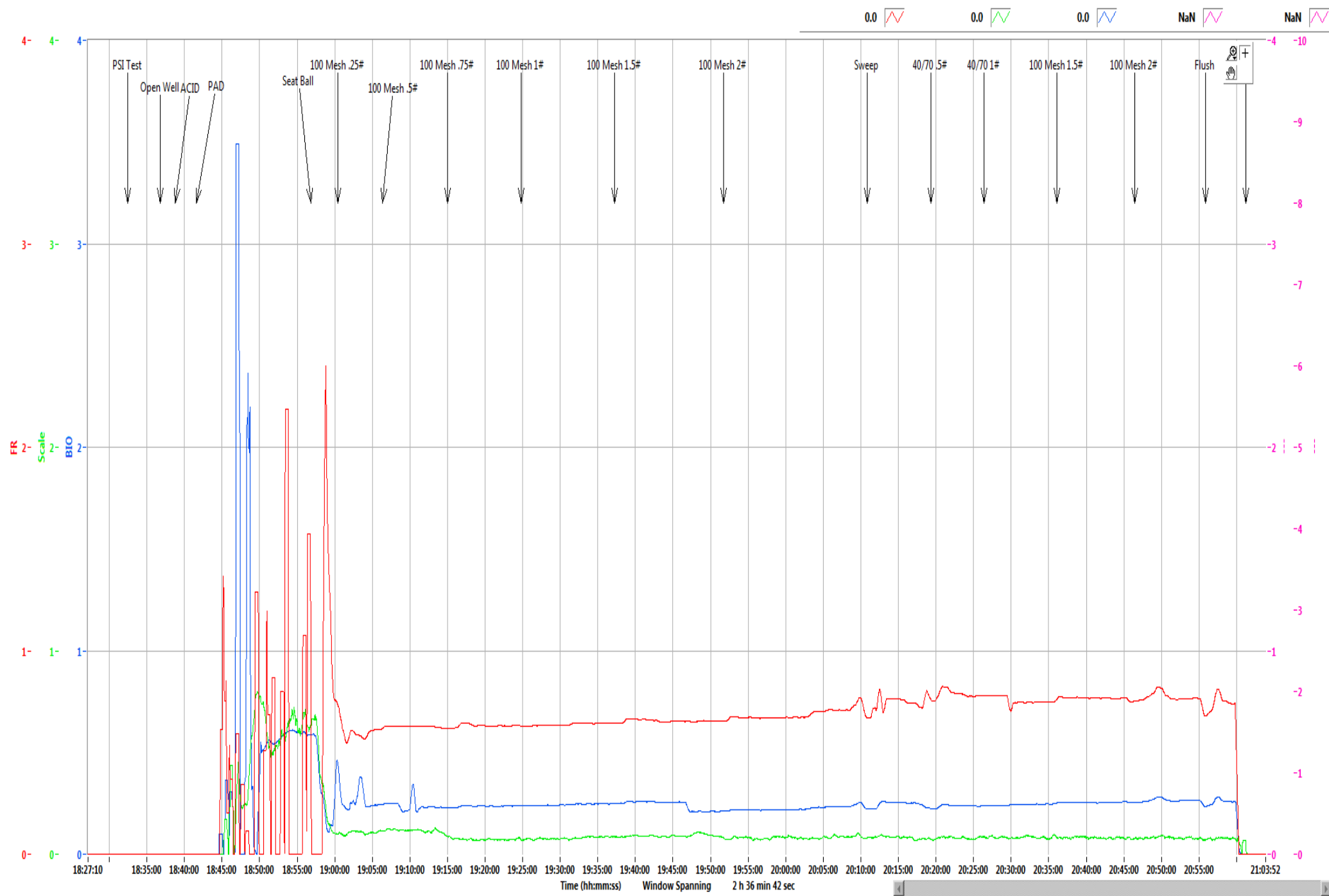
NNE
Boggess 9H
Stage 25
Producers Service Corp.

Post Stage Report
August 16, 2019

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Refresh Graph



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: Bogges 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 DENSIOMETER		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	\$ -

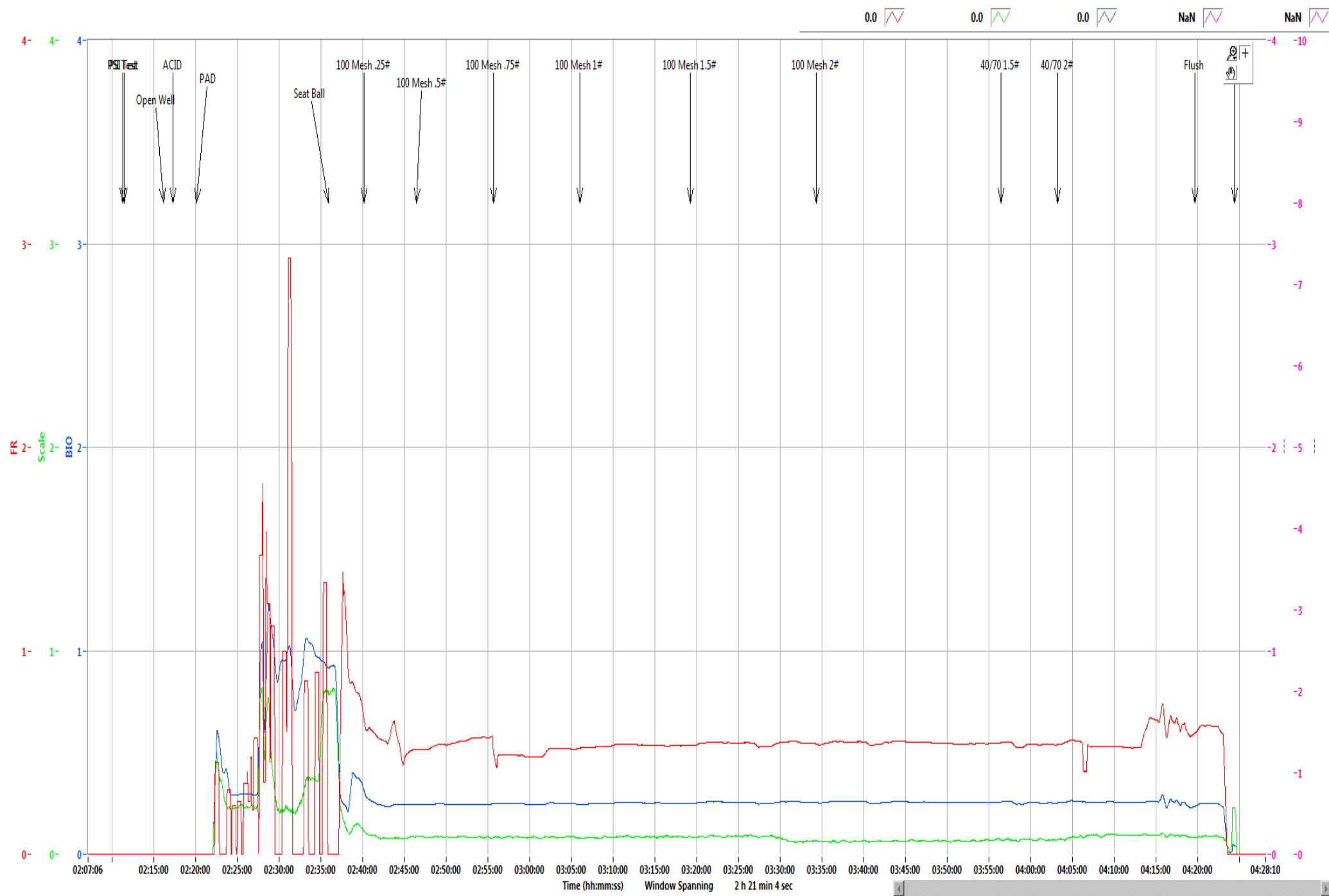
Total No Discount \$ 61,668.75
 25% Discount Applied \$ 15,417.19
 Net Stage Total \$ 46,251.56

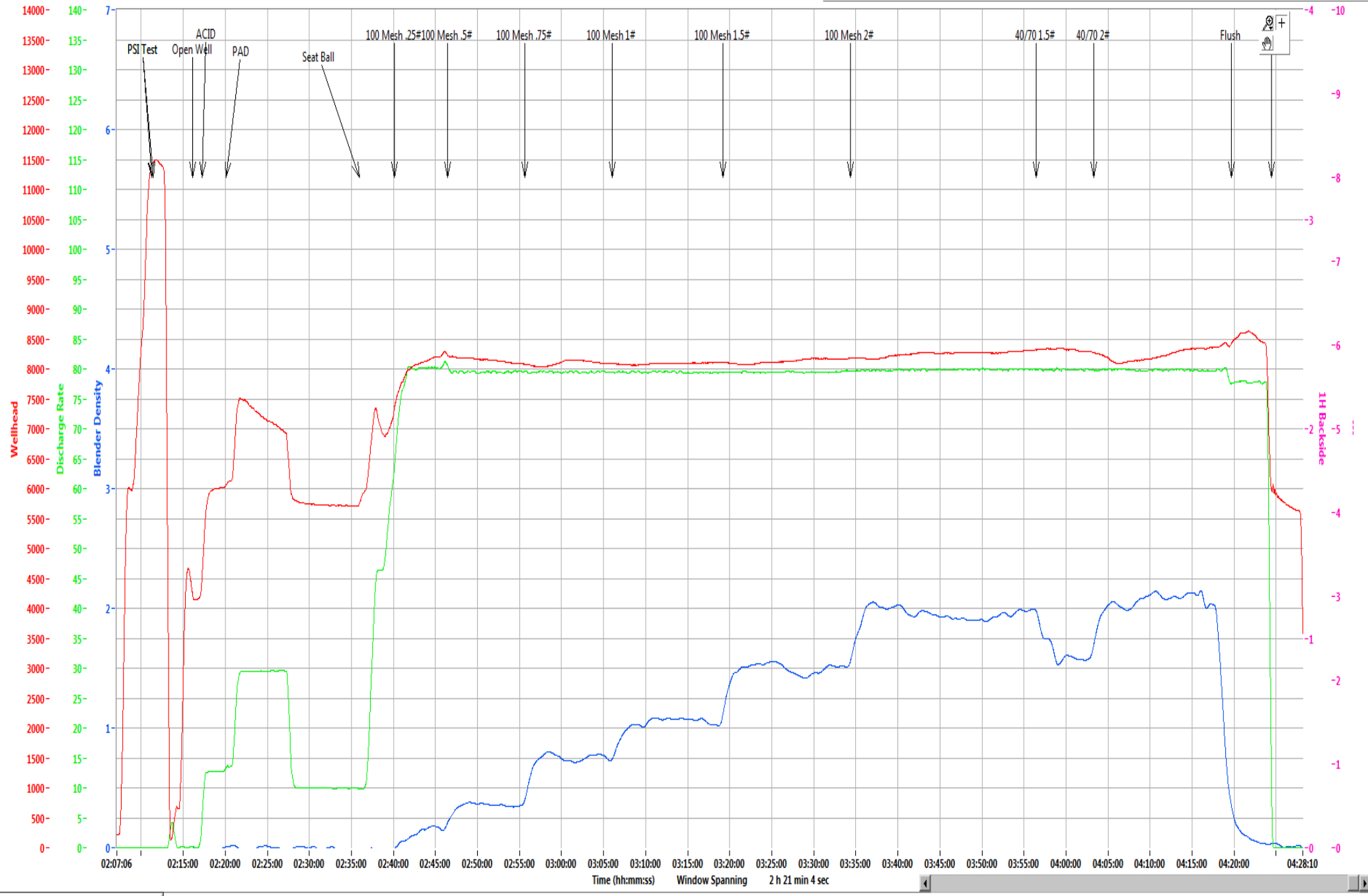
(Print Name) Rob Cawser Customer Rep: Rob Cawser Customer Signature: [Signature]



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: Bogges 9H
 Stage No.: 26

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	2,995.20	CWT	\$ 5.50	\$ 16,473.60
SAND 40/70	40/70 white	1,000.20	CWT	\$ 5.75	\$ 5,751.15
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	180	GAL	\$ 17.75	\$ 3,195.00
BIOC11219A	Biocide @ 0.25 GPT	87	GAL	\$ 16.00	\$ 1,392.00
SCAL16846A	Scale Control @ 0.05 GPT	17	GAL	\$ 16.00	\$ 272.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		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		199.77	TON	\$ 55.00	\$ 10,987.35
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

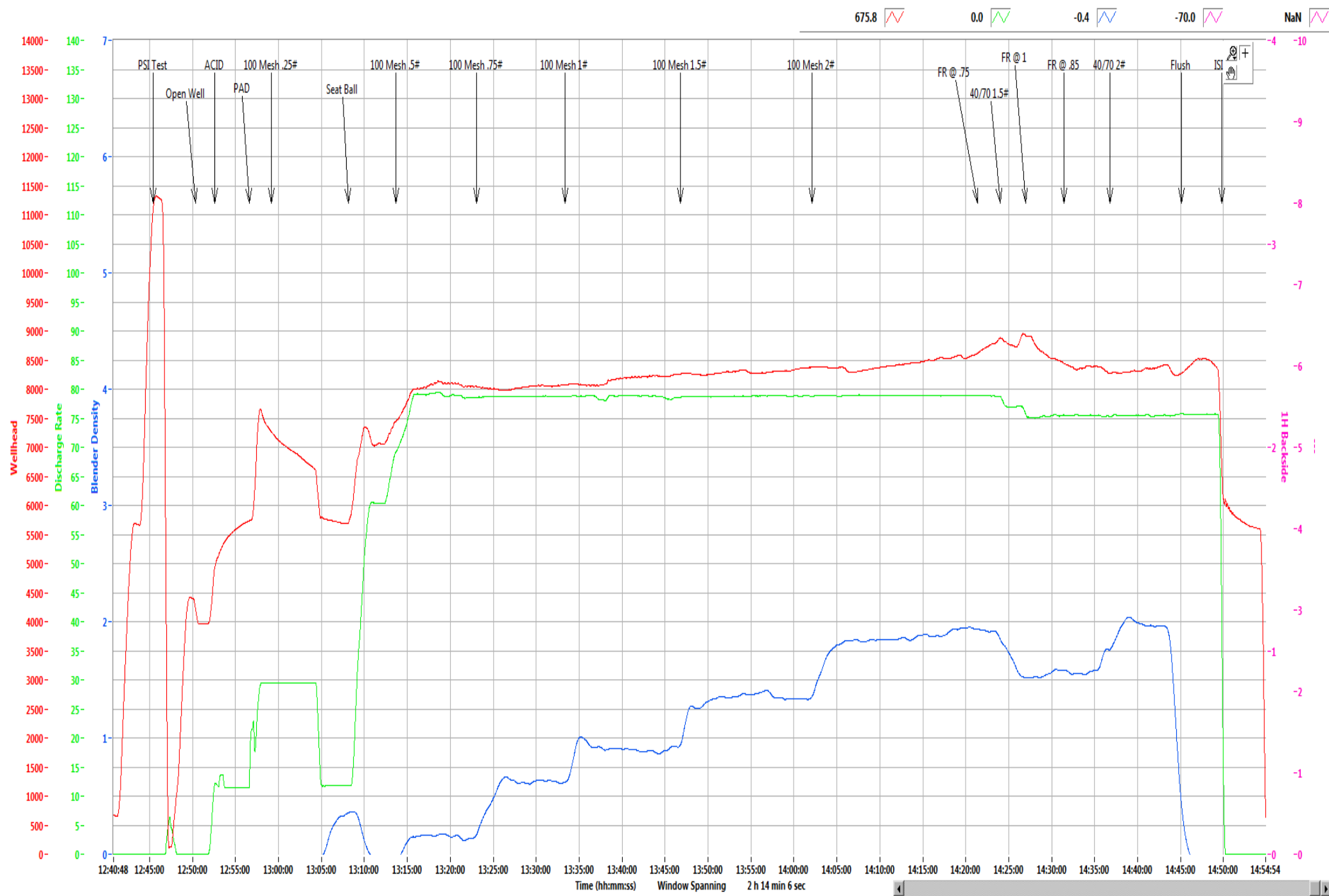
Total No Discount \$ 59,851.10
 25% Discount Applied \$ 14,962.78
 Net Stage Total \$ 44,888.33

(Print Name) Rob Lowe Customer Rep: Rob Lowe Customer Signature: [Signature]



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: Bogges 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 DENSIOMETER		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

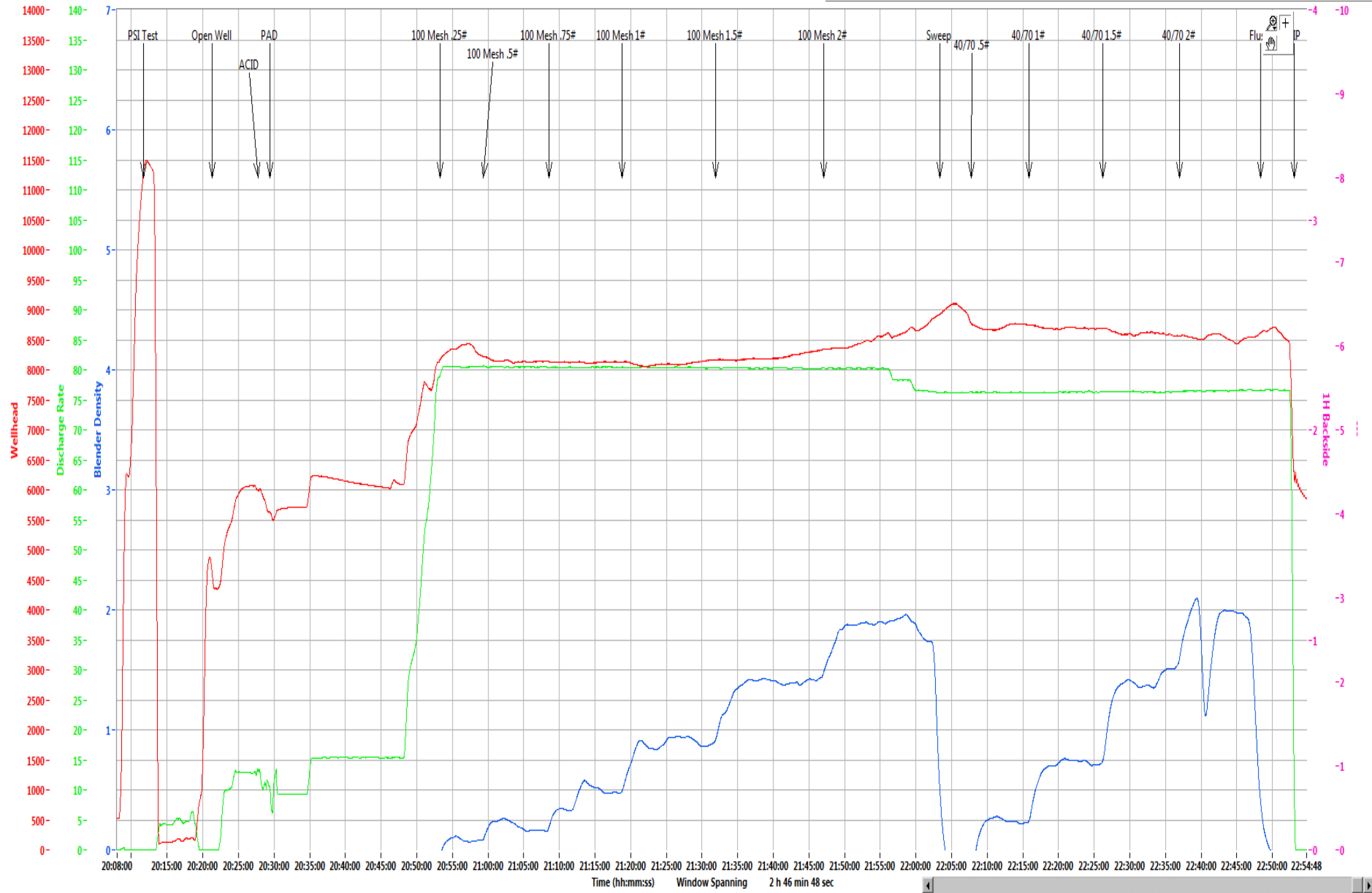
(Print Name) E. Bone Customer Rep: _____ Customer Signature: E. Bone



NNE
Boggess 9H
Stage 28
Producers Service Corp.

Post Stage Report
August 17, 2019

533.5 0.0 -0.2 -70.2 NaN



Refresh Graph

Time (hh:mm:ss) Window Spanning 2 h 46 min 48 sec



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: Bogges 9H
 Stage No.: 28

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	700	GAL	\$ 1.25	\$ 875.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	1.4	GAL	\$ 35.00	\$ 49.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,646.80	CWT	\$ 5.50	\$ 14,557.40
SAND 40/70	40/70 white	1,400.40	CWT	\$ 5.75	\$ 8,052.30
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	263	GAL	\$ 17.75	\$ 4,668.25
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 DENSIOMETER		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		202.36	TON	\$ 55.00	\$ 11,129.80
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 61,051.75
 25% Discount Applied \$ 15,262.94
 Net Stage Total \$ 45,788.81

(Print Name)
 Customer Rep:

E. Boone

Customer Signature:

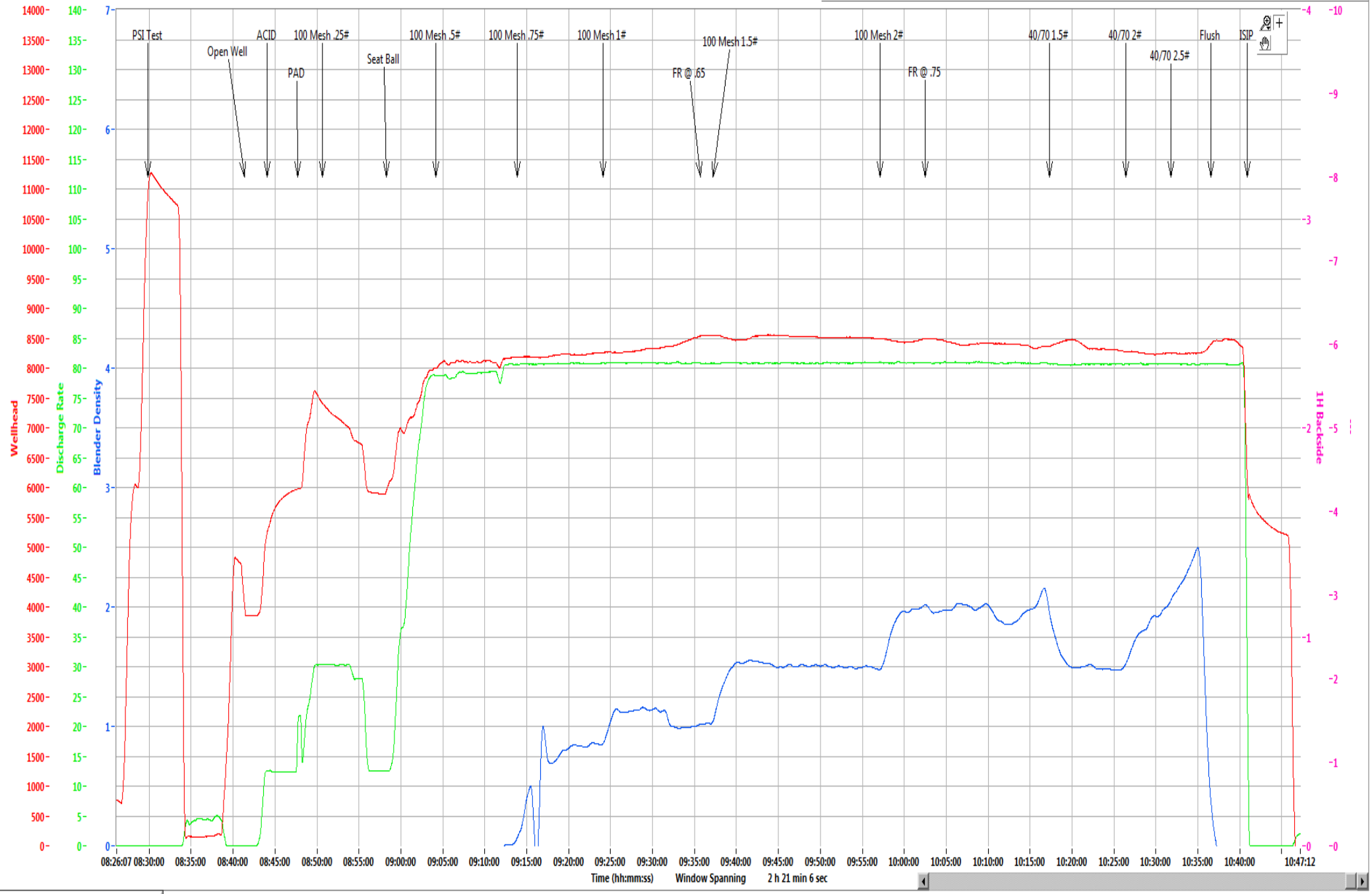
E. Boone
 Re-Sign
 (EB)



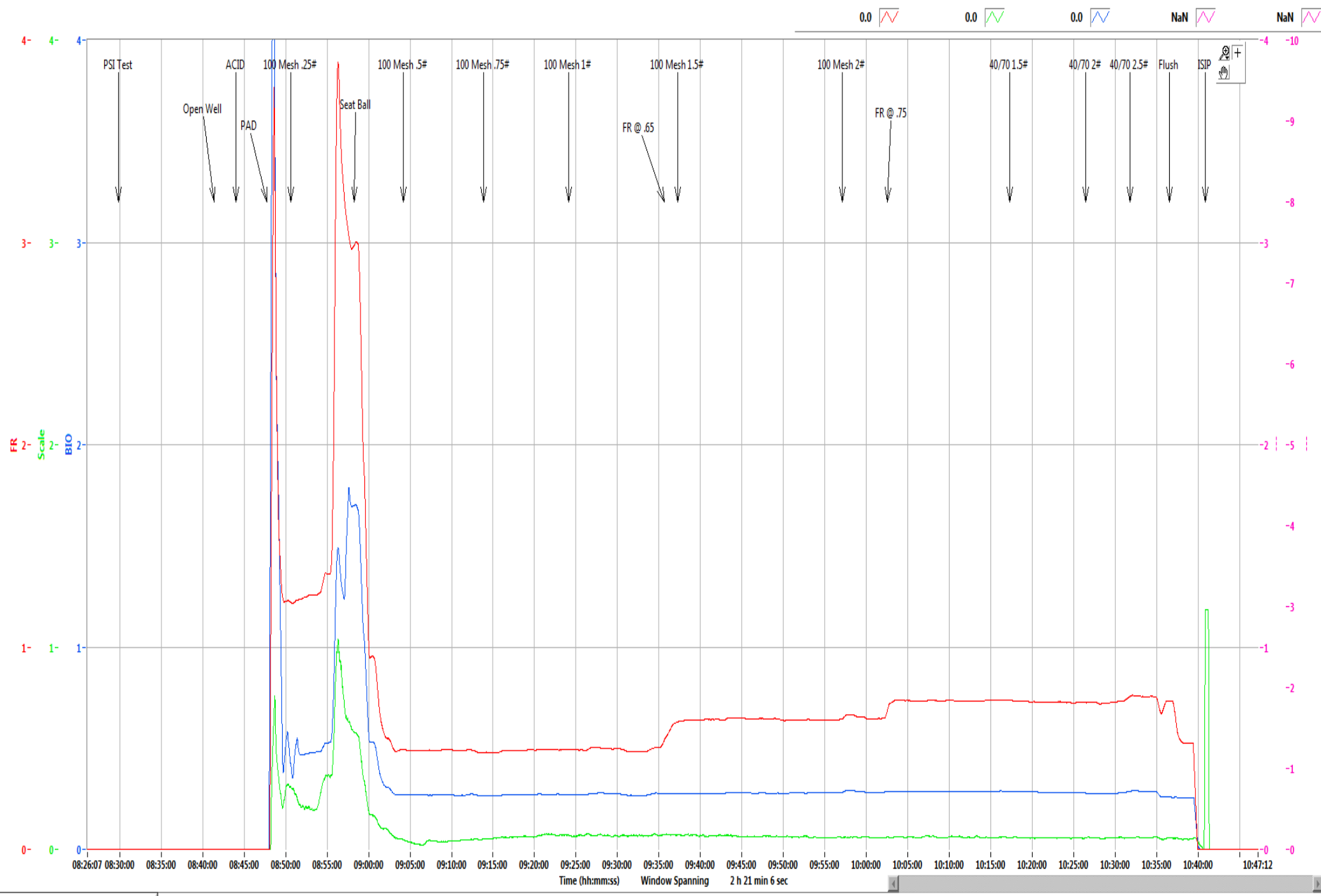
NNE
Boggess 9H
Stage 29
Producers Service Corp.

Post Stage Report
August 18, 2019

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Refresh Graph



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

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



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

Invoice #: 22906
 Date: 8/18/2019
 Well Name: Bogess 9H
 Stage No.: 29

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/A/E: 100347-604

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
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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	3,003.40	CWT	\$ 5.50	\$ 16,518.70
SAND 40/70	40/70 white	982.80	CWT	\$ 5.75	\$ 5,651.10

StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	214	GAL	\$ 17.75	\$ 3,798.50
BIOC11219A	Biocide @ 0.25 GPT	90	GAL	\$ 16.00	\$ 1,440.00
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 199.31 TON \$ 55.00 \$ 10,962.05

Not eligible for discount DIESEL FUEL GAL \$ 3.04 \$ -

Total No Discount \$ 61,130.35
 25% Discount Applied \$ 15,282.59
 Net Stage Total \$ 45,847.76

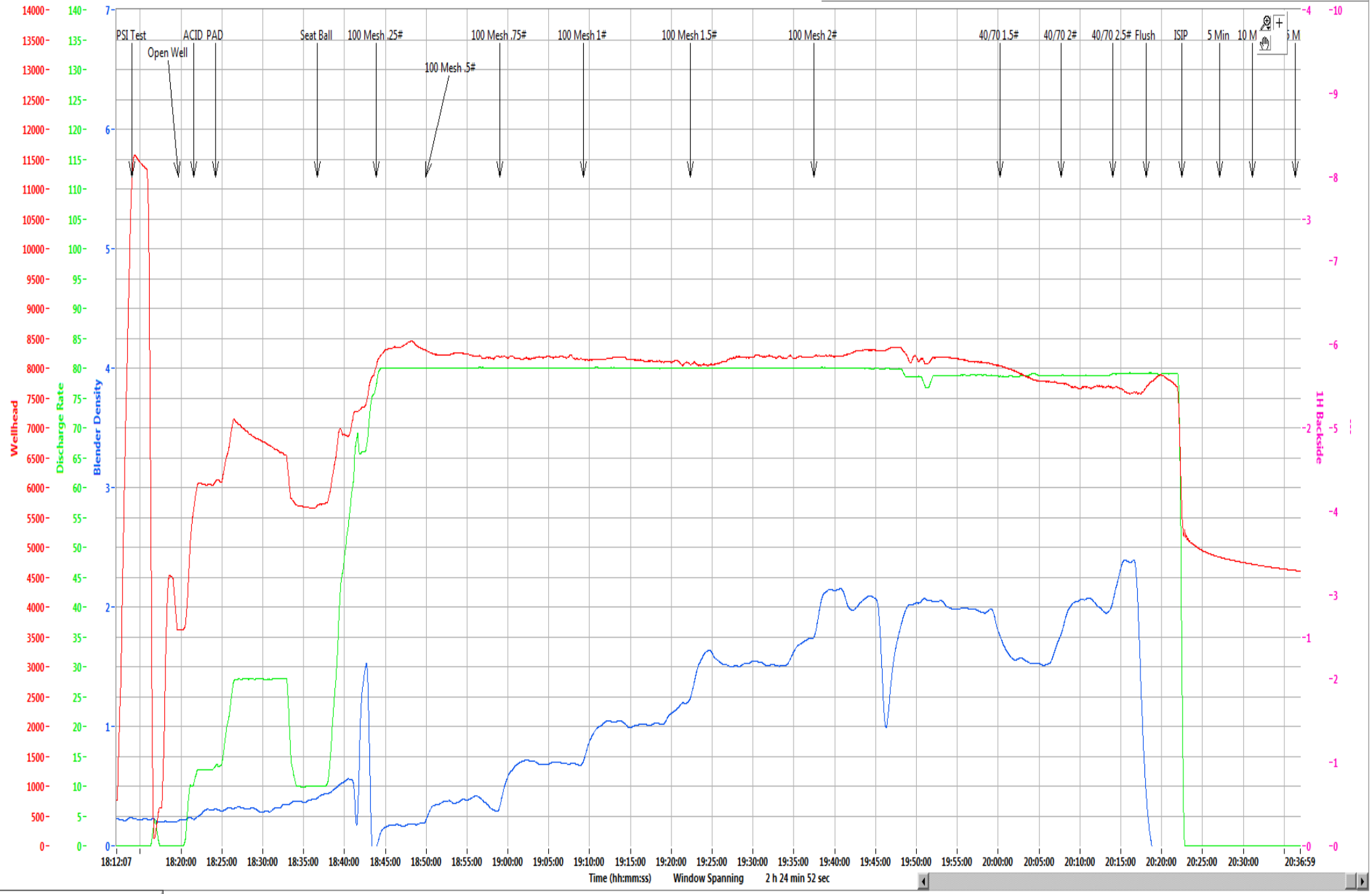
(Print Name) Customer Rep: Joe/Brad
 Customer Signature: [Signature]



NNE
Boggess 9H
Stage 30
Producers Service Corp.

Post Stage Report
August 18, 2019

763.6 0.0 0.2 -98.1 NaN



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%

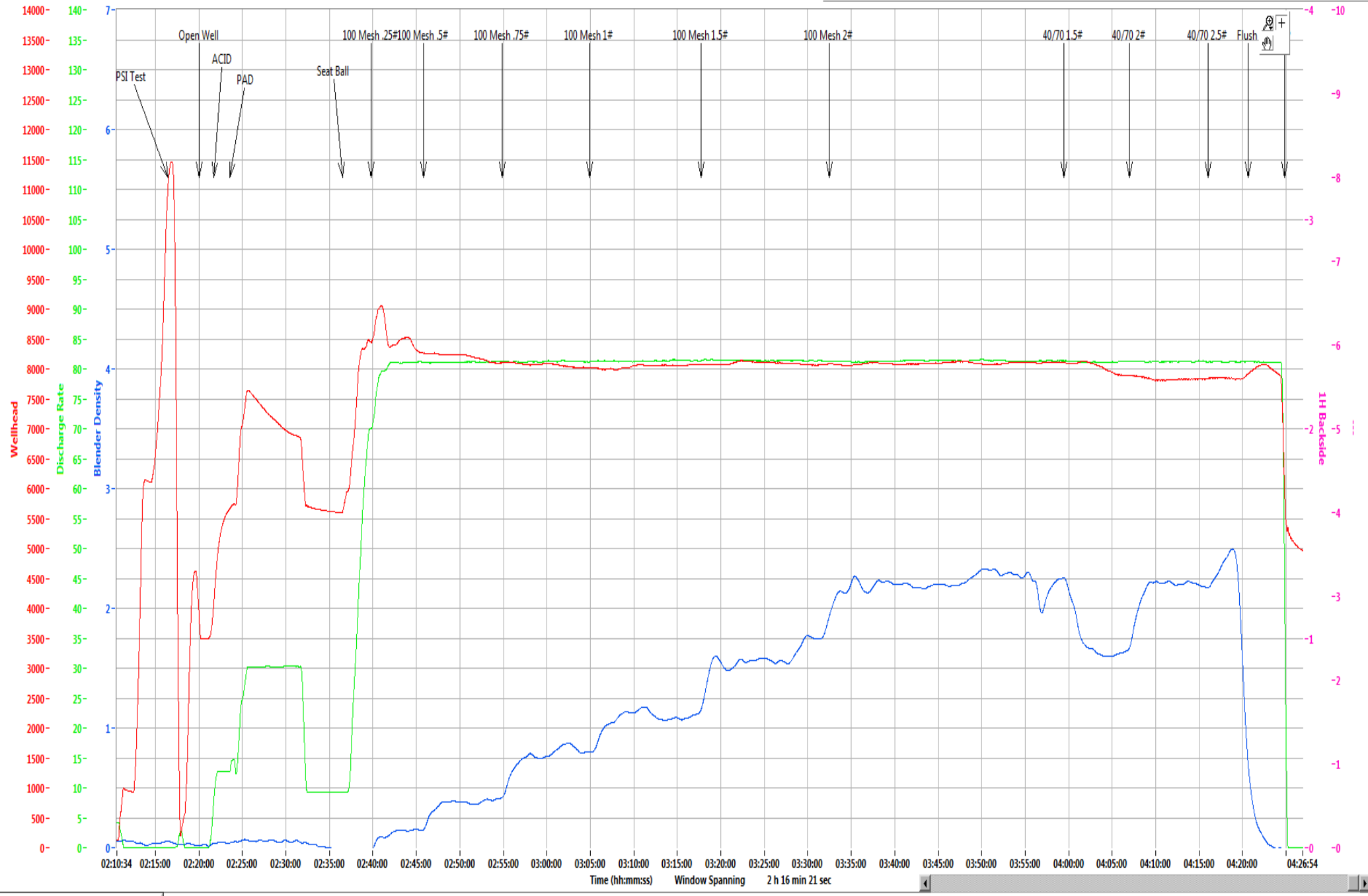
CHEMICALS

FR 9800	169
DRB-LT	
Biocide	84
Scale	17



NNE
Bogges 9H
Stage 31
Producers Service Corp.

Post Stage Report
August 19, 2019



Time (hh:mm:ss) Window Spanning 2 h 16 min 21 sec

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: Bogges 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 DENSIOMETER		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	\$ -

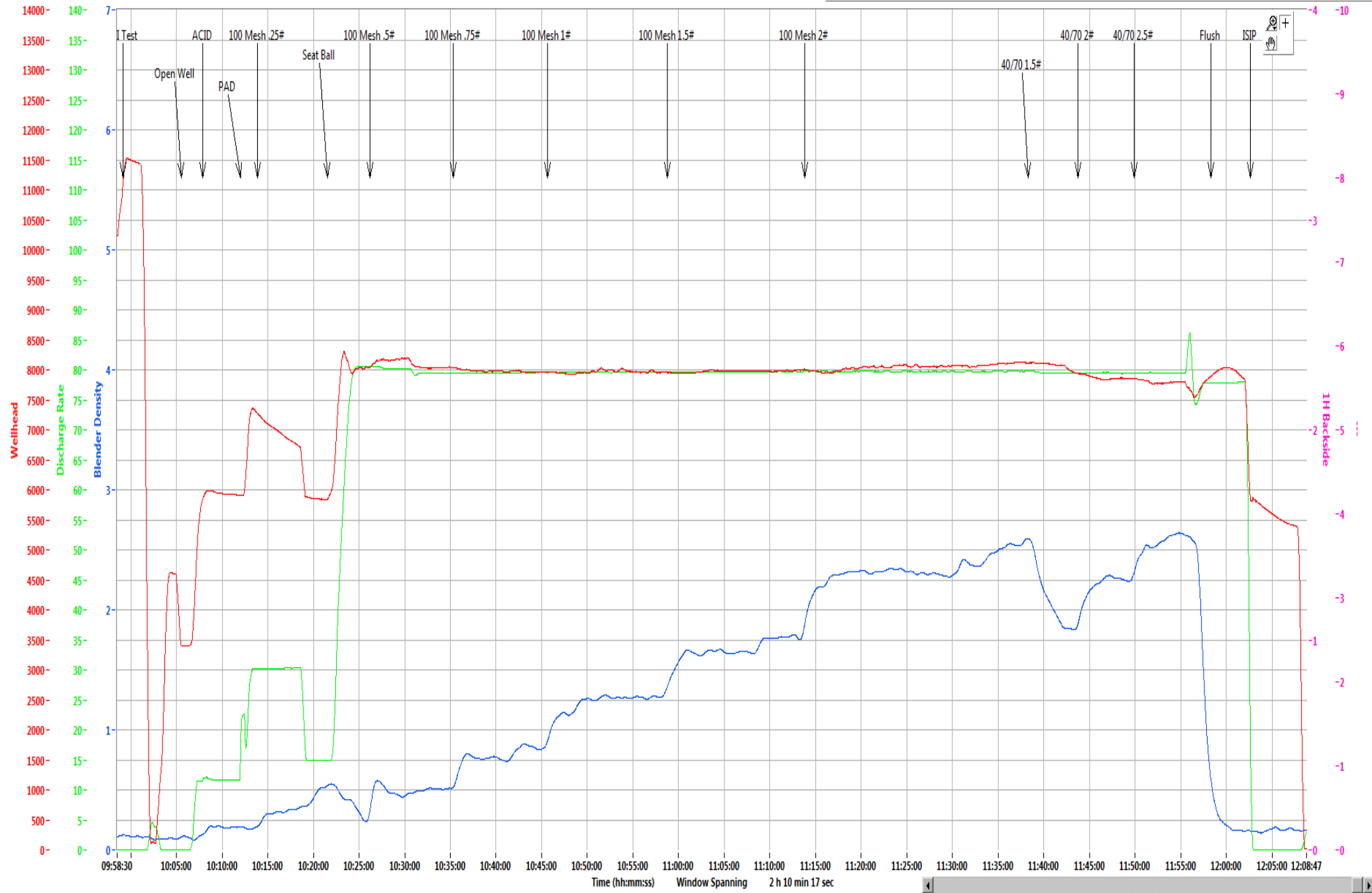
Total No Discount \$ 59,918.15
 25% Discount Applied \$ 14,979.54
 Net Stage Total \$ 44,938.61

(Print Name) Customer Rep: Rob Gwiger Customer Signature: [Signature]



NNE
Boggess 9H
Stage 32
Producers Service Corp.

Post Stage Report
August 19, 2019



Refresh Graph



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 DENSIOMETER		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 Rep: E. Boone

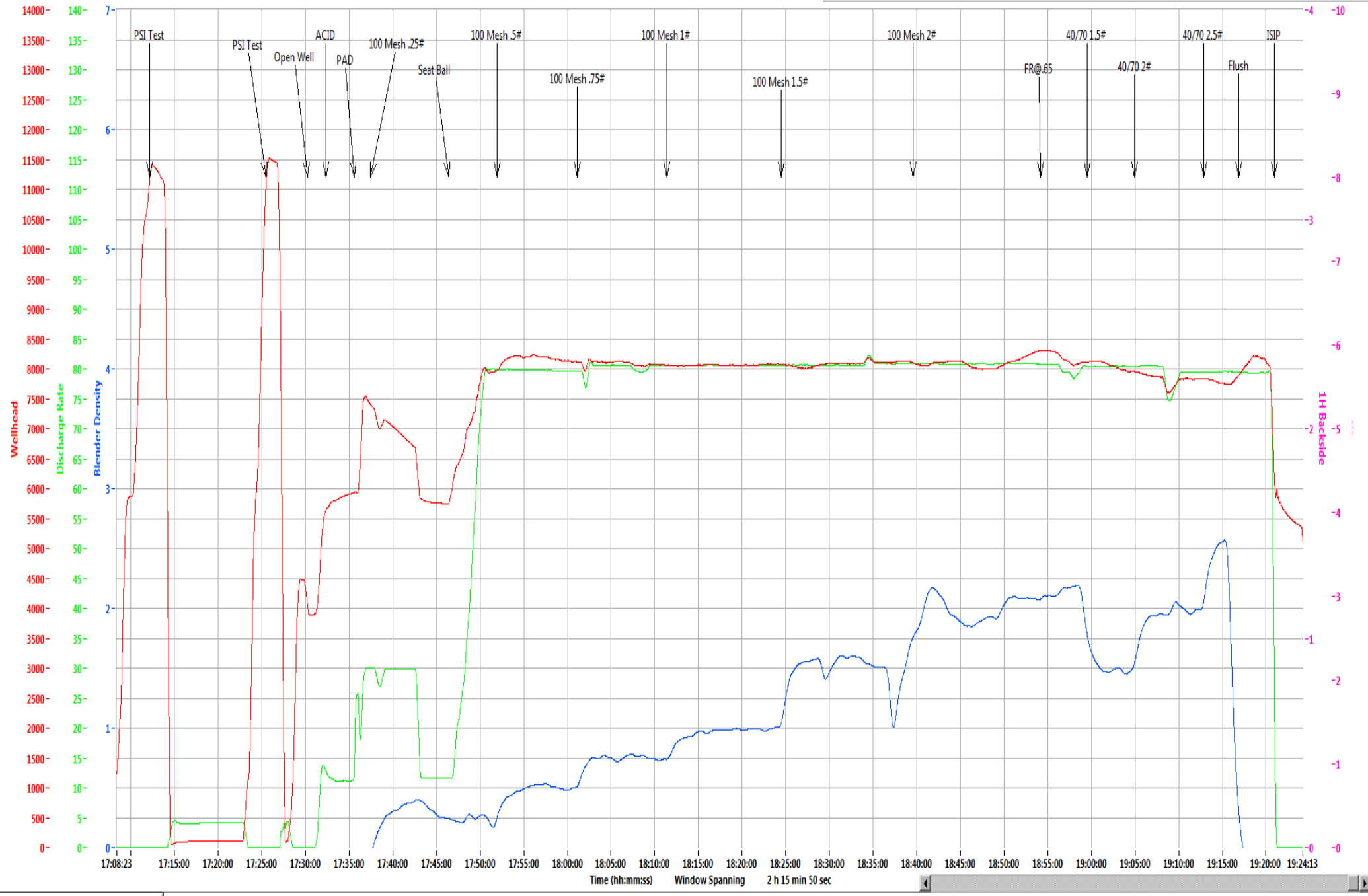
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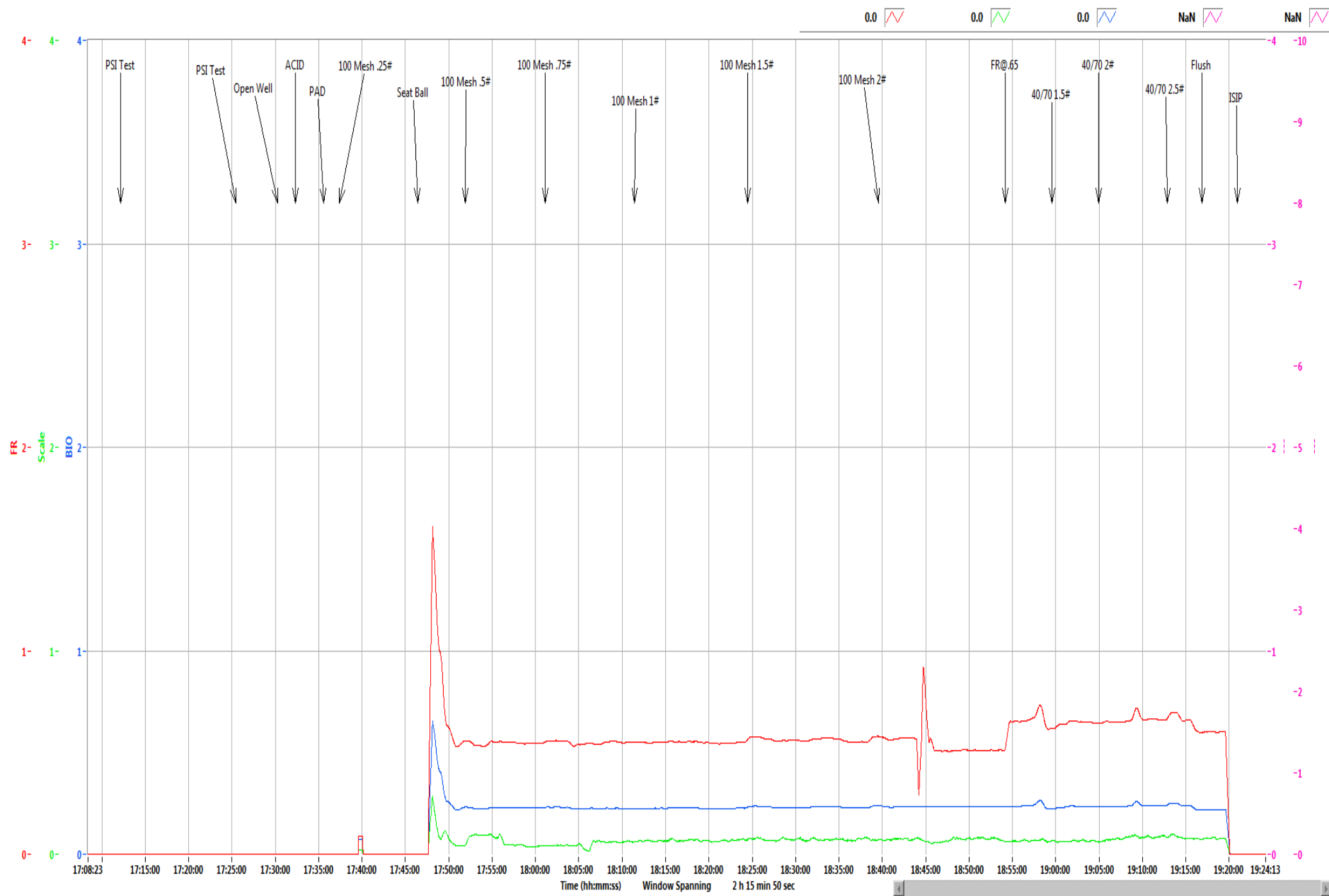
NNE
Boggess 9H
Stage 33
Producers Service Corp.

Post Stage Report
August 19, 2019

1244.6 0.0 -0.2 -76.8 NaN



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 DENSIOMETER		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

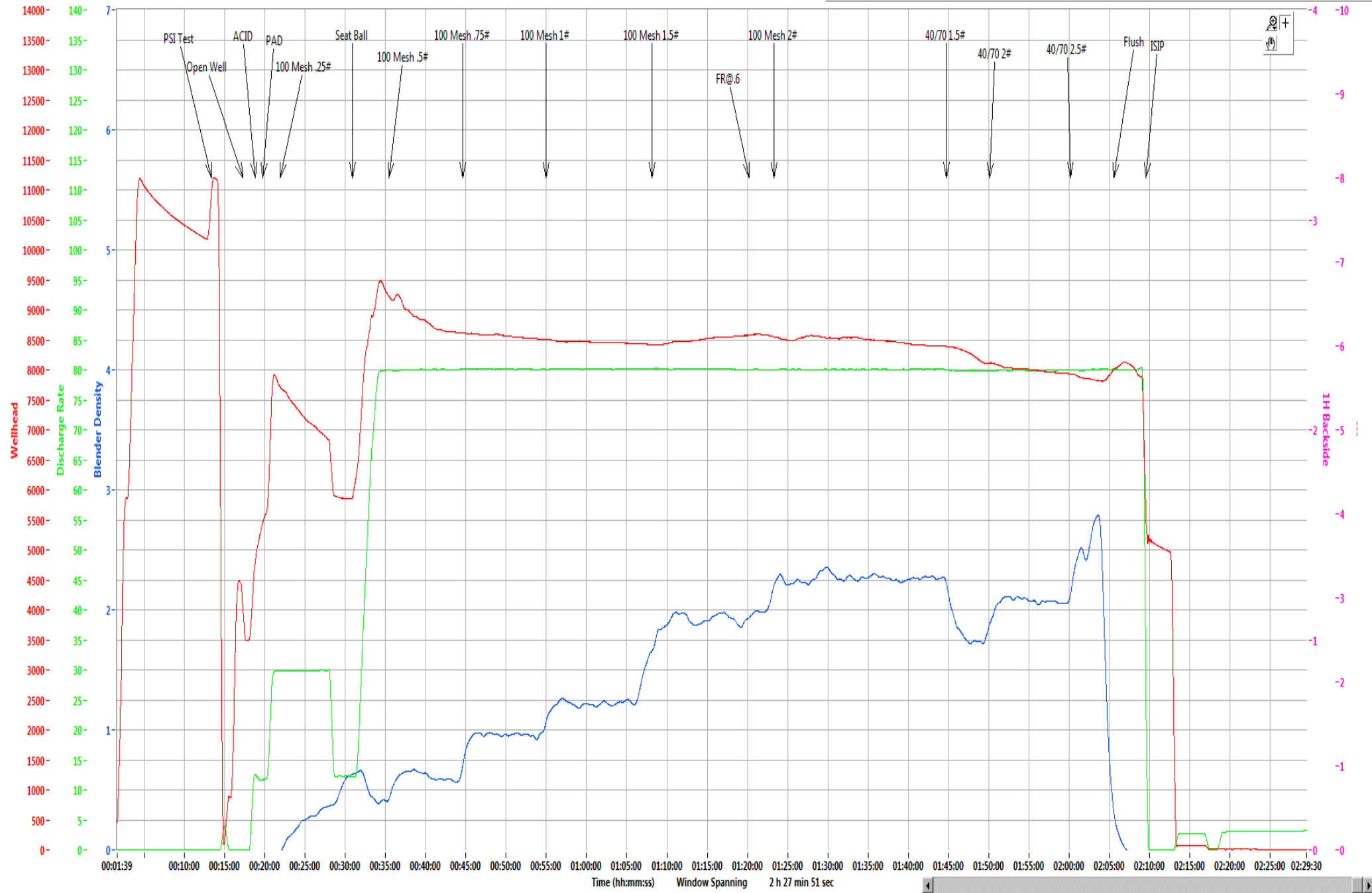
(Print Name) Rob Gwyer Customer Rep: Rob Gwyer Customer Signature: [Signature]



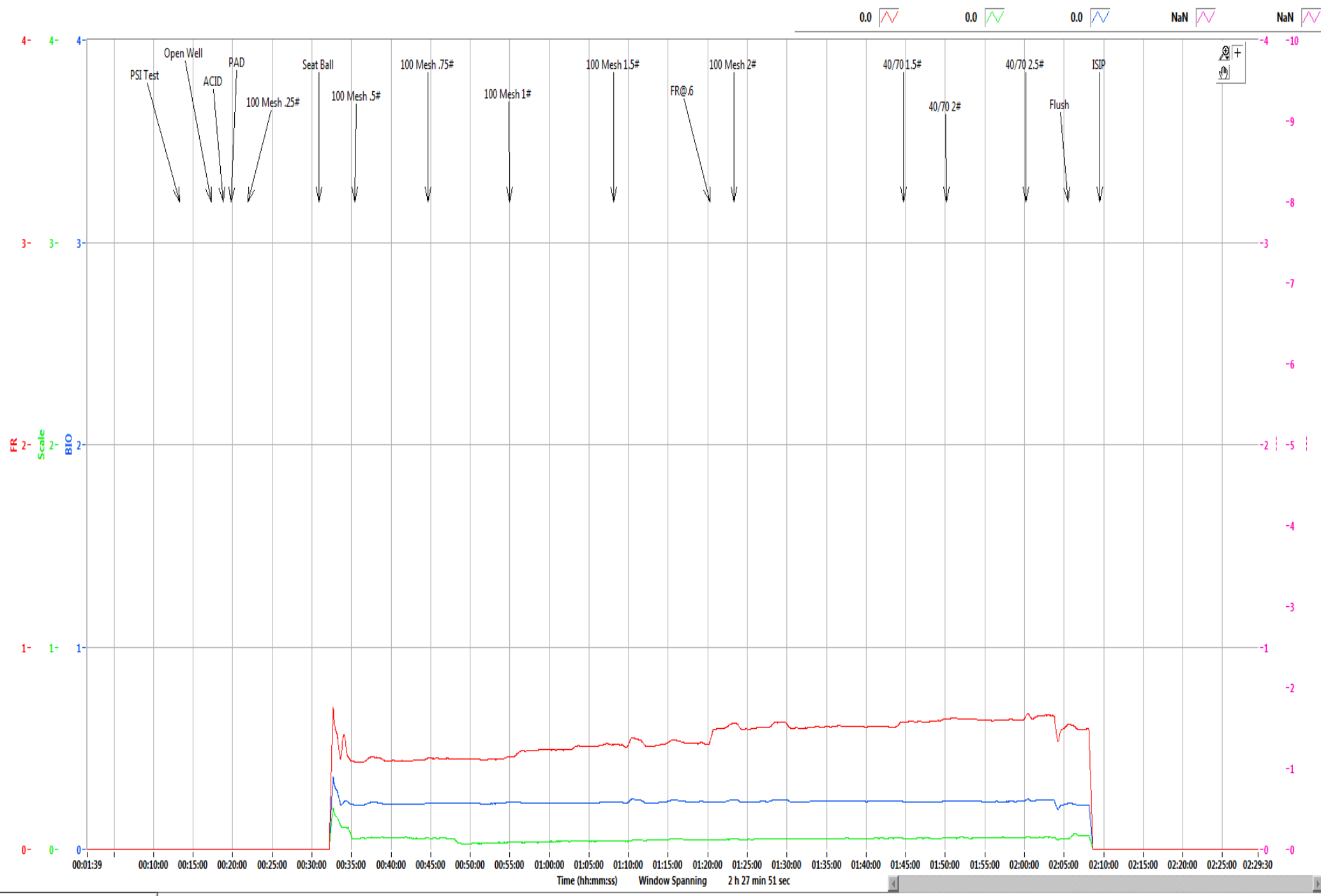
NNE
Boggess 9H
Stage 34
Producers Service Corp.

Post Stage Report
August 20, 2019

458.5 0.0 -0.3 -22.8 NaN



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: Bogges 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

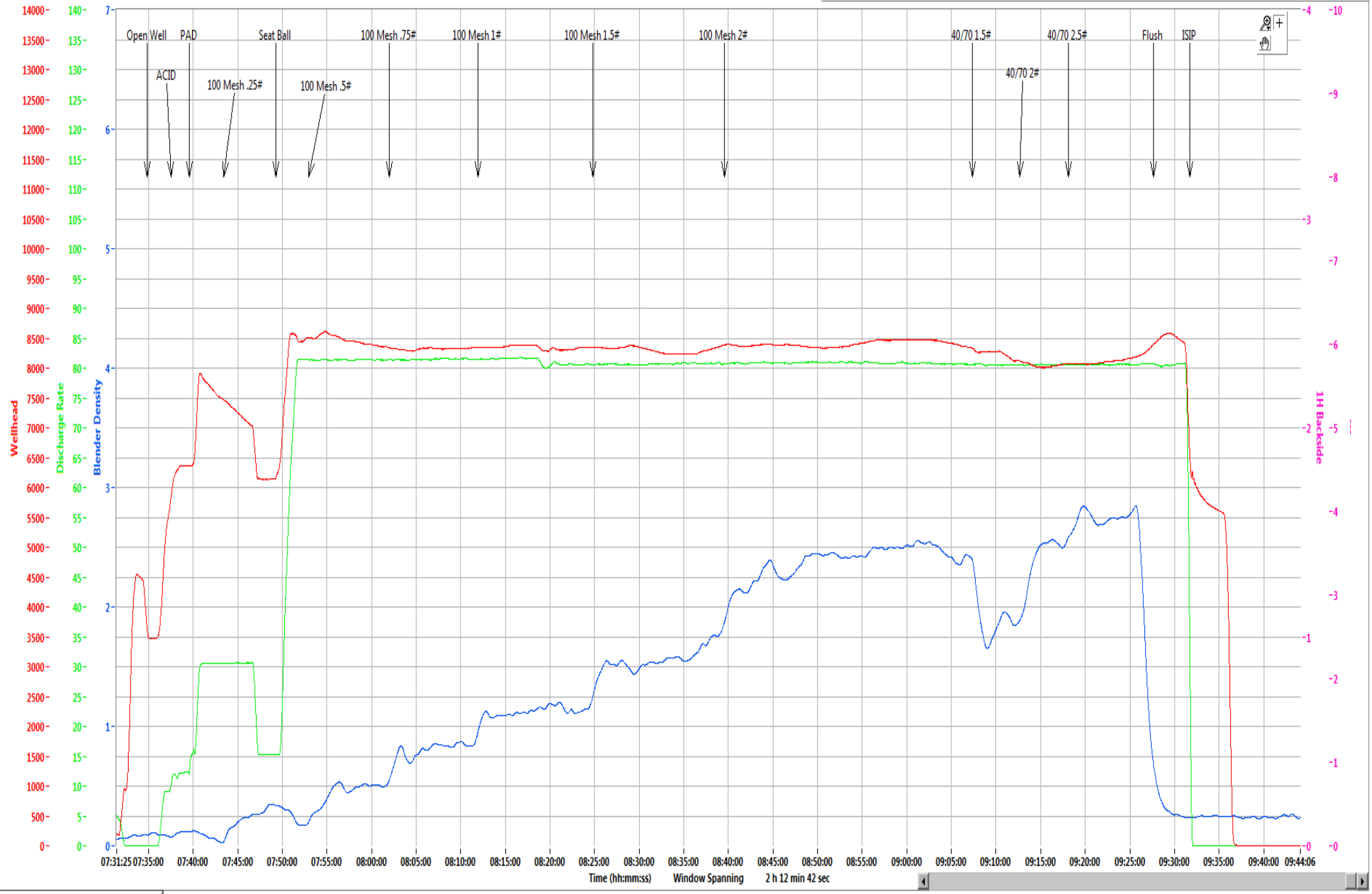
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NNE
Bogges 9H
Stage 35
Producers Service Corp.

Post Stage Report
August 20, 2019

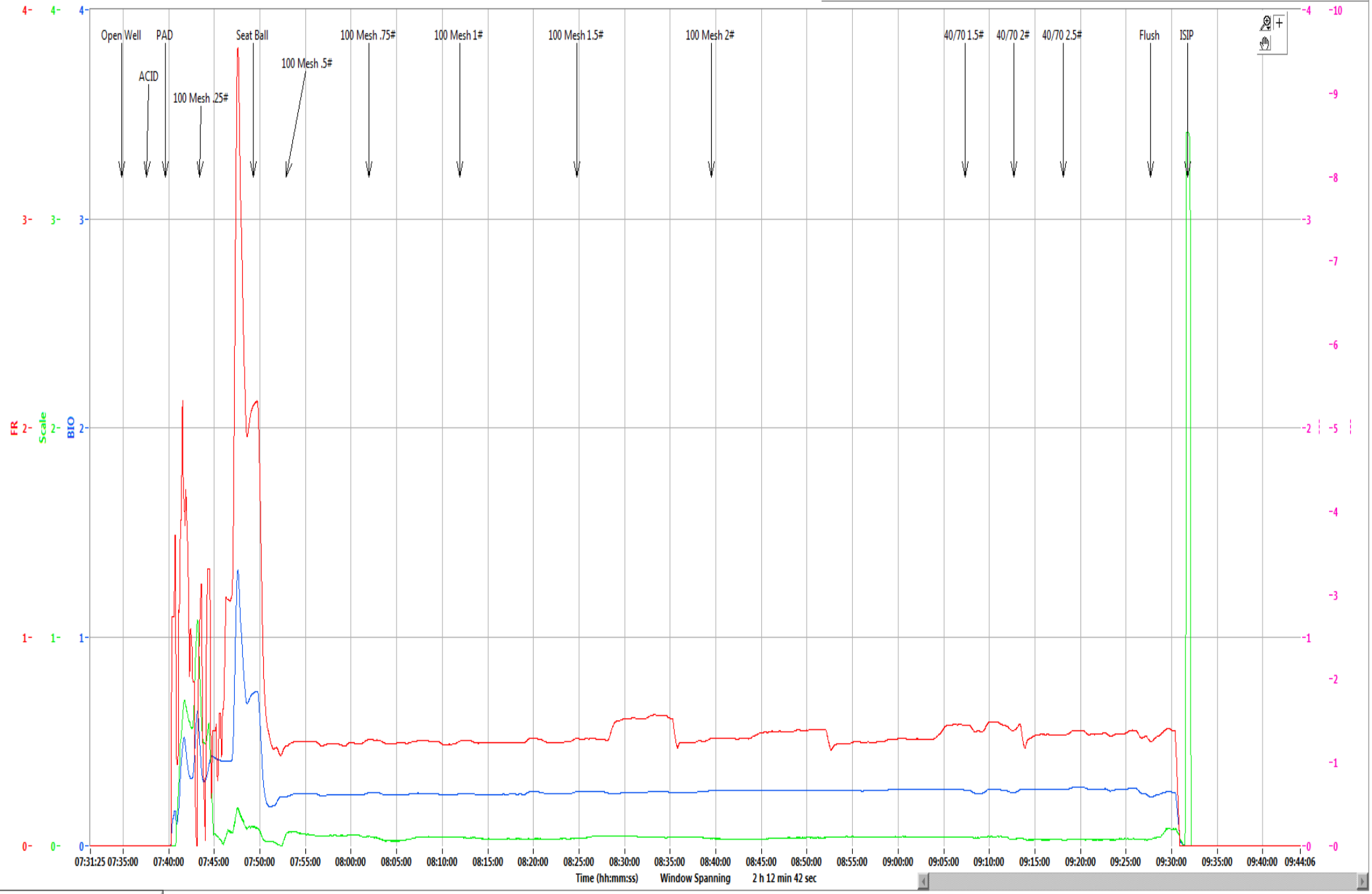
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Refresh Graph

Time (hh:mm:ss) Window Spanning 2 h 12 min 42 sec

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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: Bogges 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 DENSIOMETER		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

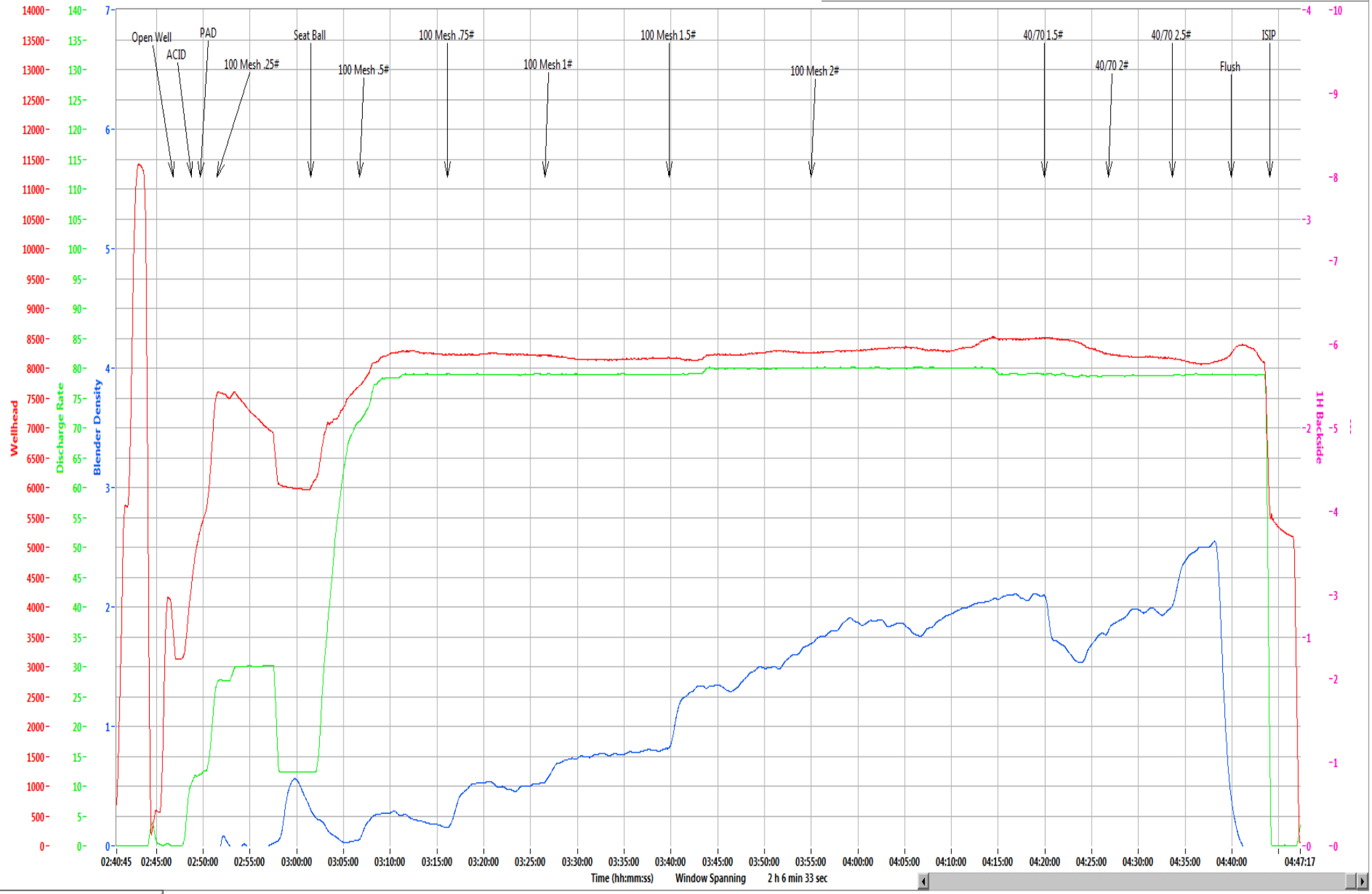
(Print Name) E. Boone Customer Rep: E. Boone Customer Signature: E. Boone



NNE
Boggess 9H
Stage 36
Producers Service Corp.

Post Stage Report
August 21, 2019

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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: Bogges 9H
Stage No.: 36

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	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	2,987.00	CWT	\$ 5.50	\$ 16,428.50
SAND 40/70	40/70 white	1,003.60	CWT	\$ 5.75	\$ 5,770.70
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	227	GAL	\$ 17.75	\$ 4,029.25
BIOC11219A	Biocide @ 0.25 GPT	84	GAL	\$ 16.00	\$ 1,344.00
SCAL16846A	Scale Control @ 0.05 GPT	17	GAL	\$ 16.00	\$ 272.00
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		199.53	TON	\$ 55.00	\$ 10,974.15
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 59,278.60
25% Discount Applied \$ 14,819.65
Net Stage Total \$ 44,458.95

(Print Name)

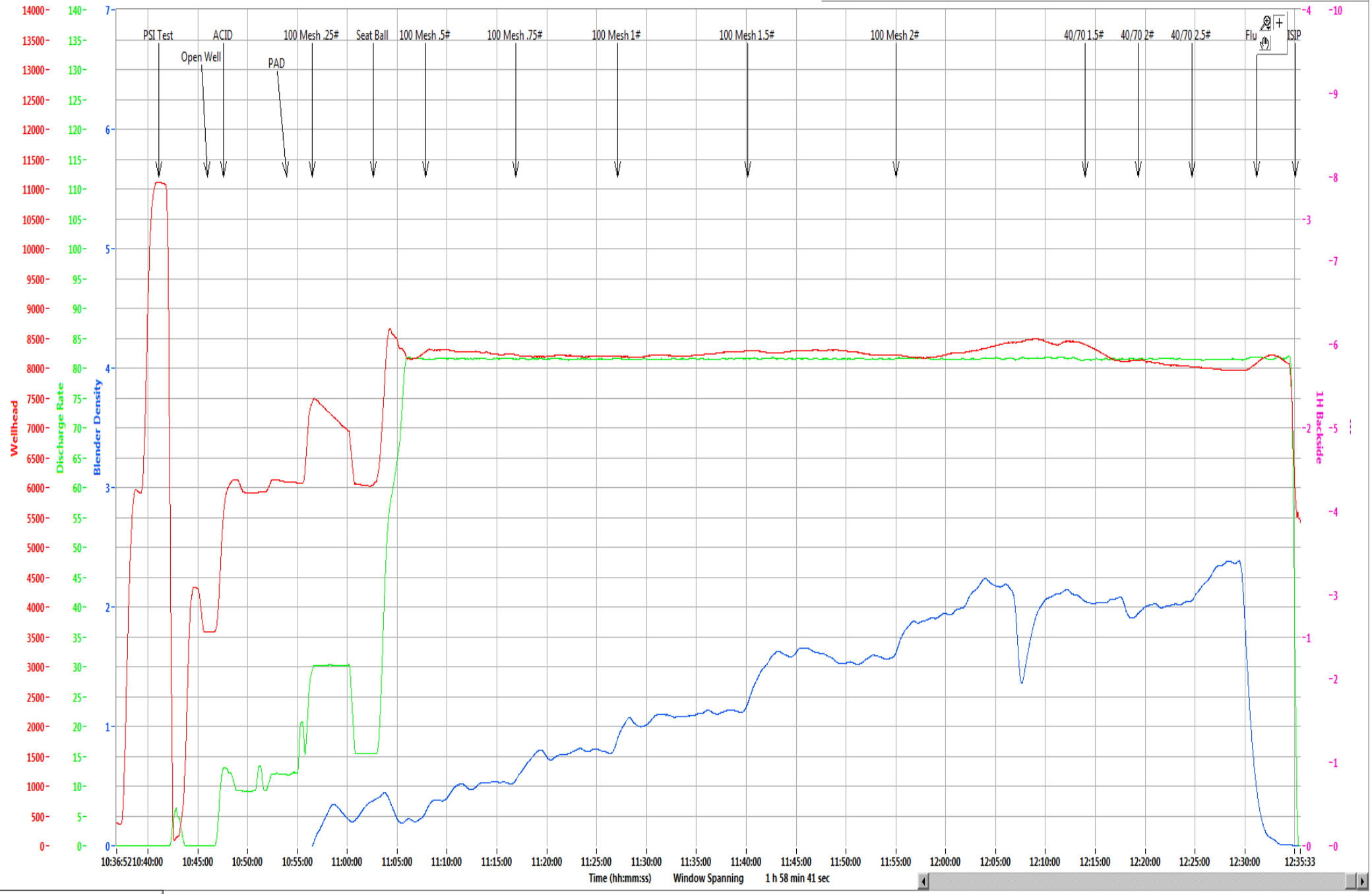
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Customer Signature: [Signature]

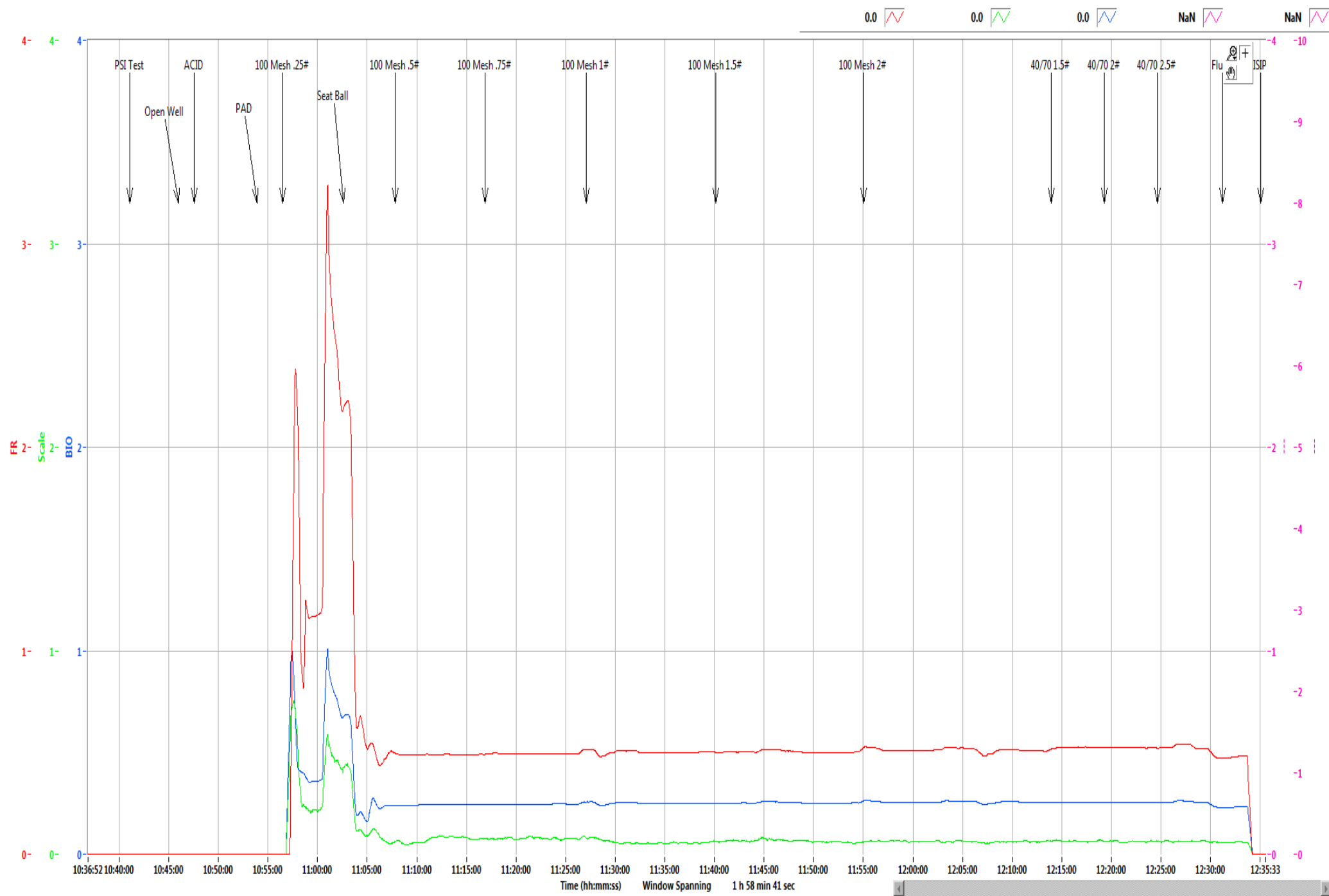


NNE
Boggess 9H
Stage 37
Producers Service Corp.

Post Stage Report
August 21, 2019



Refresh Graph



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: Bogges 9H
 Stage No.: 37

State: WV
 County: Monongahela
 Operator: Stetson/Austin/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	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	3,030.00	CWT	\$ 5.50	\$ 16,665.00
SAND 40/70	40/70 white	1,044.60	CWT	\$ 5.75	\$ 6,006.45
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	158	GAL	\$ 17.75	\$ 2,804.50
BIOC11219A	Biocide @ 0.25 GPT	77	GAL	\$ 16.00	\$ 1,232.00
SCAL16846A	Scale Control @ 0.05 GPT	22	GAL	\$ 16.00	\$ 352.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		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		203.73	TON	\$ 55.00	\$ 11,205.15
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 60,045.10
 25% Discount Applied \$ 15,011.28
 Net Stage Total \$ 45,033.83

(Print Name)
 Customer Rep:

E. Boone

Customer Signature

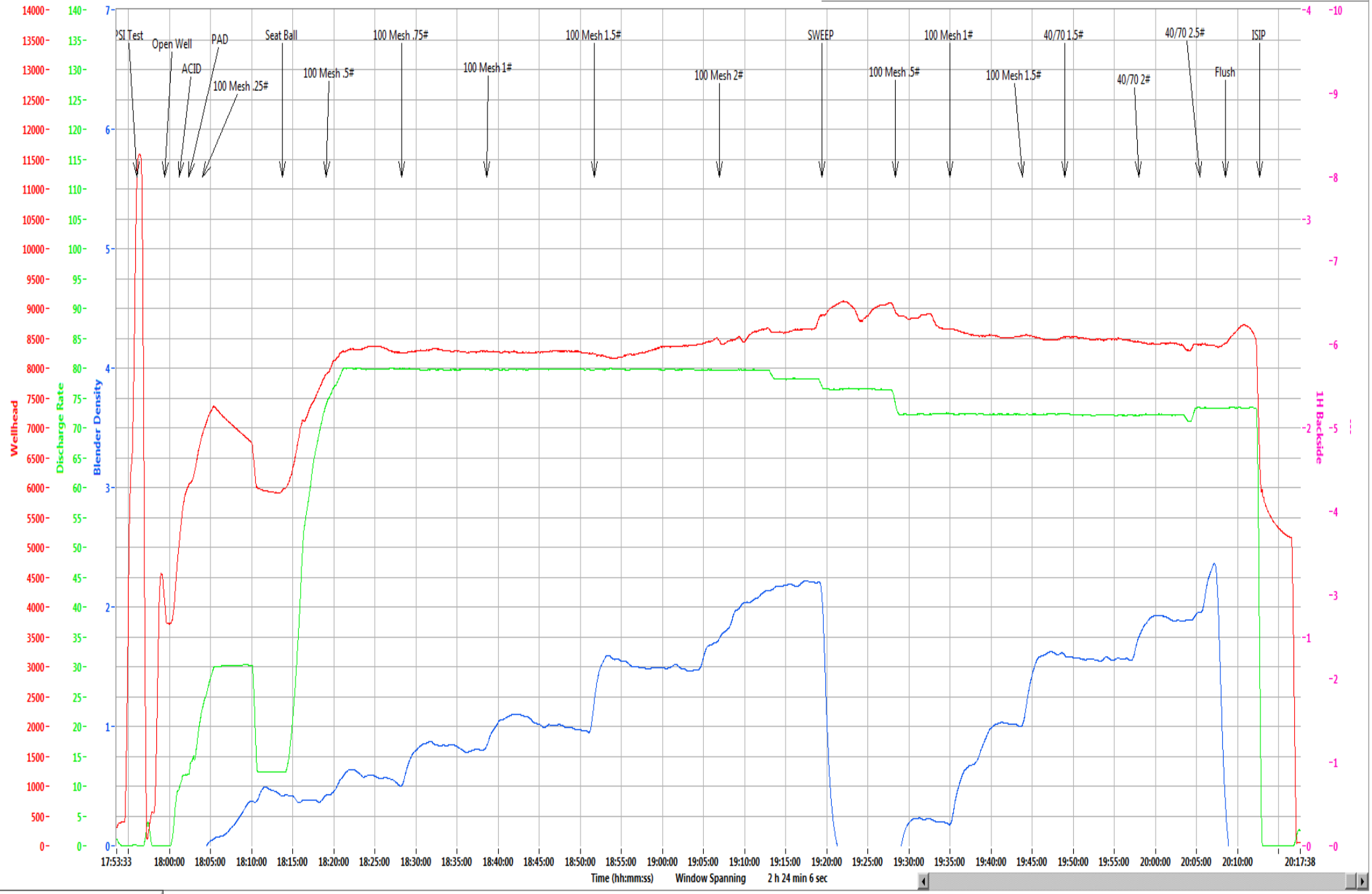
E. Boone



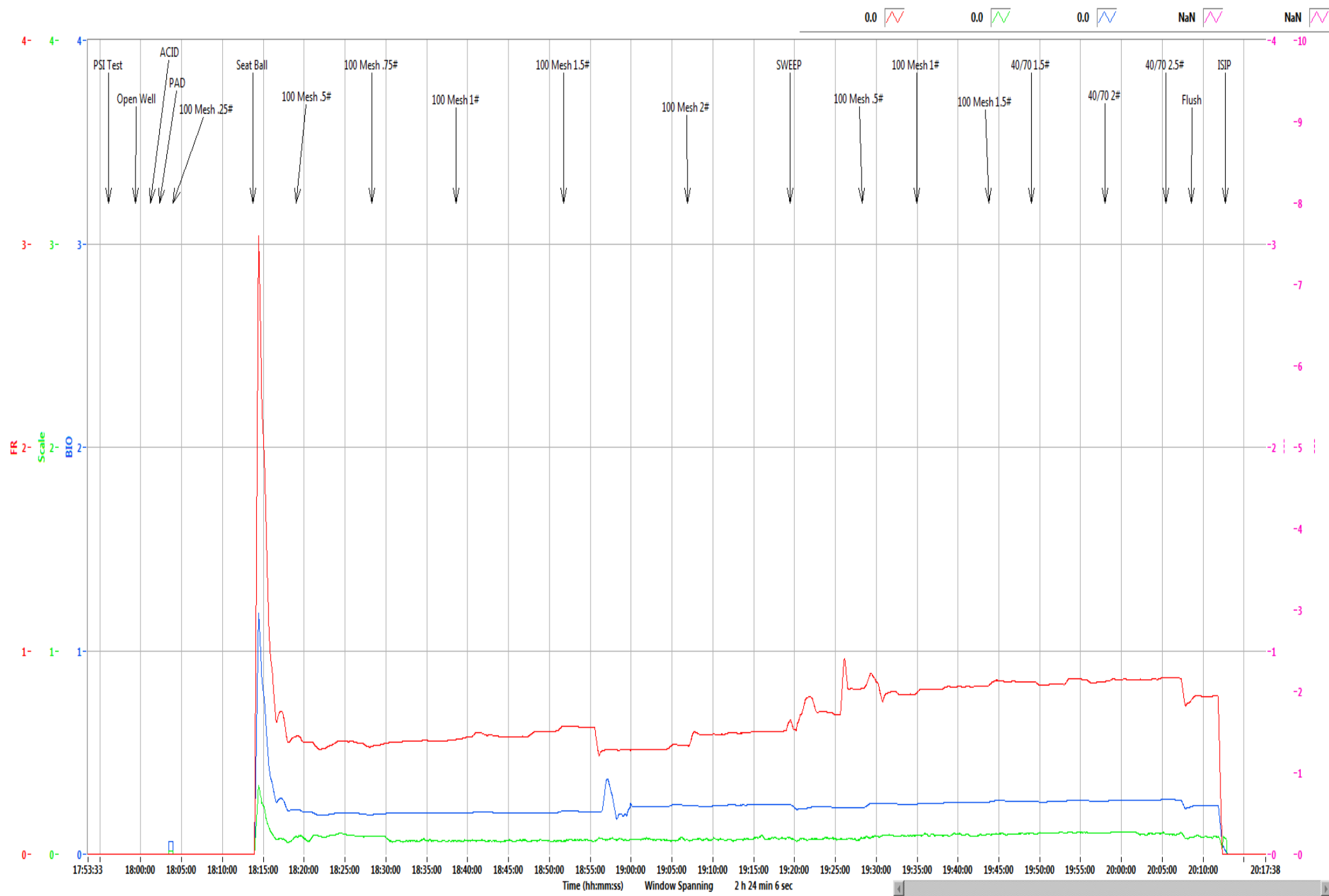
NNE
Boggess 9H
Stage 38
Producers Service Corp.

Post Stage Report
August 21, 2019

304.1 1.1 -0.2 -69.0 NaN



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

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	2,993.60	CWT	\$ 5.50	\$ 16,464.80
SAND 40/70	40/70 white	1,005.80	CWT	\$ 5.75	\$ 5,783.35
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	205	GAL	\$ 17.75	\$ 3,638.75
BIOC11219A	Biocide @ 0.25 GPT	92	GAL	\$ 16.00	\$ 1,472.00
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 DENSIOMETER		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		199.97	TON	\$ 55.00	\$ 10,998.35
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 59,137.25
 25% Discount Applied \$ 14,784.31
 Net Stage Total \$ 44,352.94

(Print Name)

Customer Rep: Rob Cowger

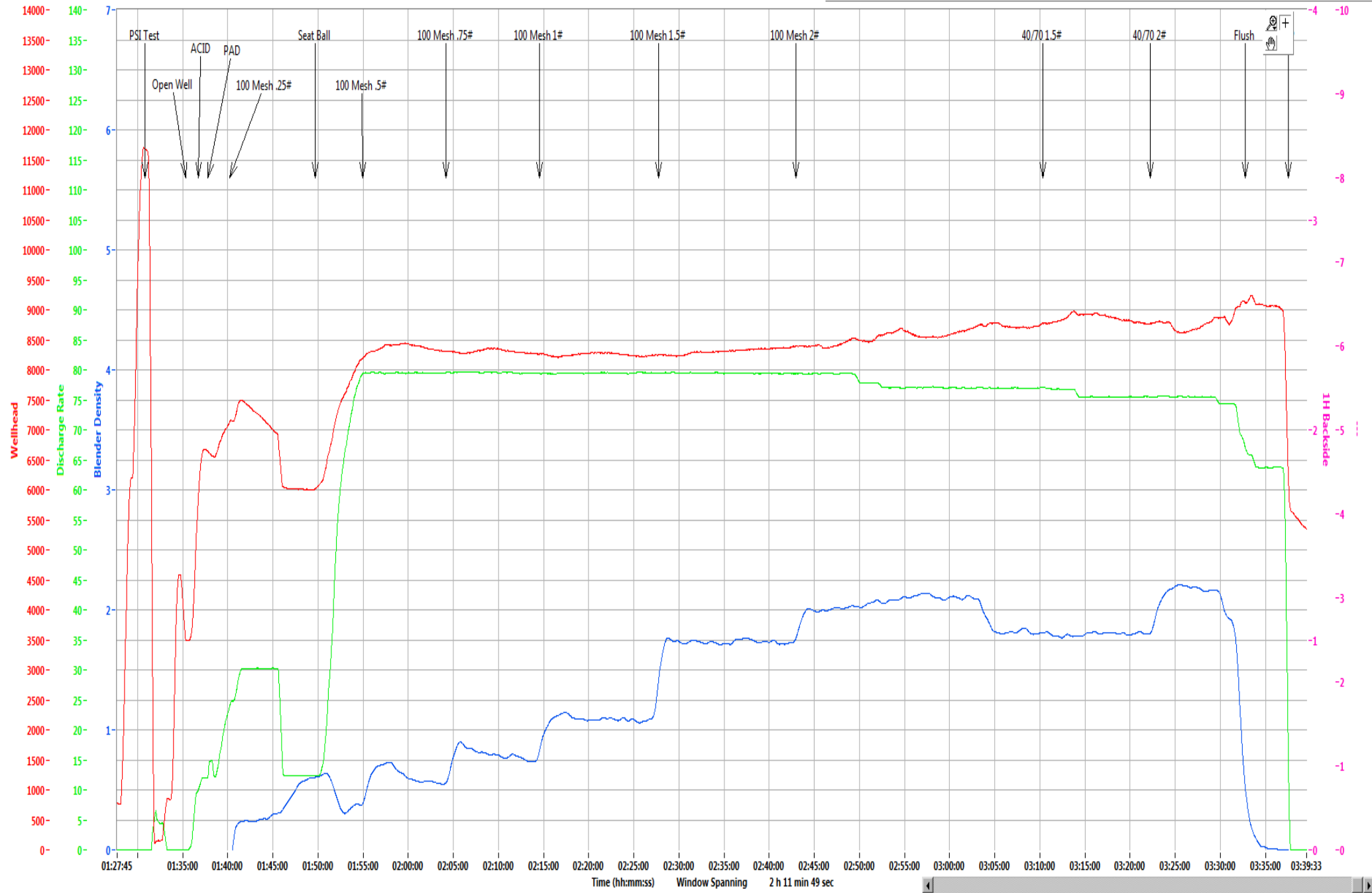
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NNE
Boggess 9H
Stage 39
Producers Service Corp.

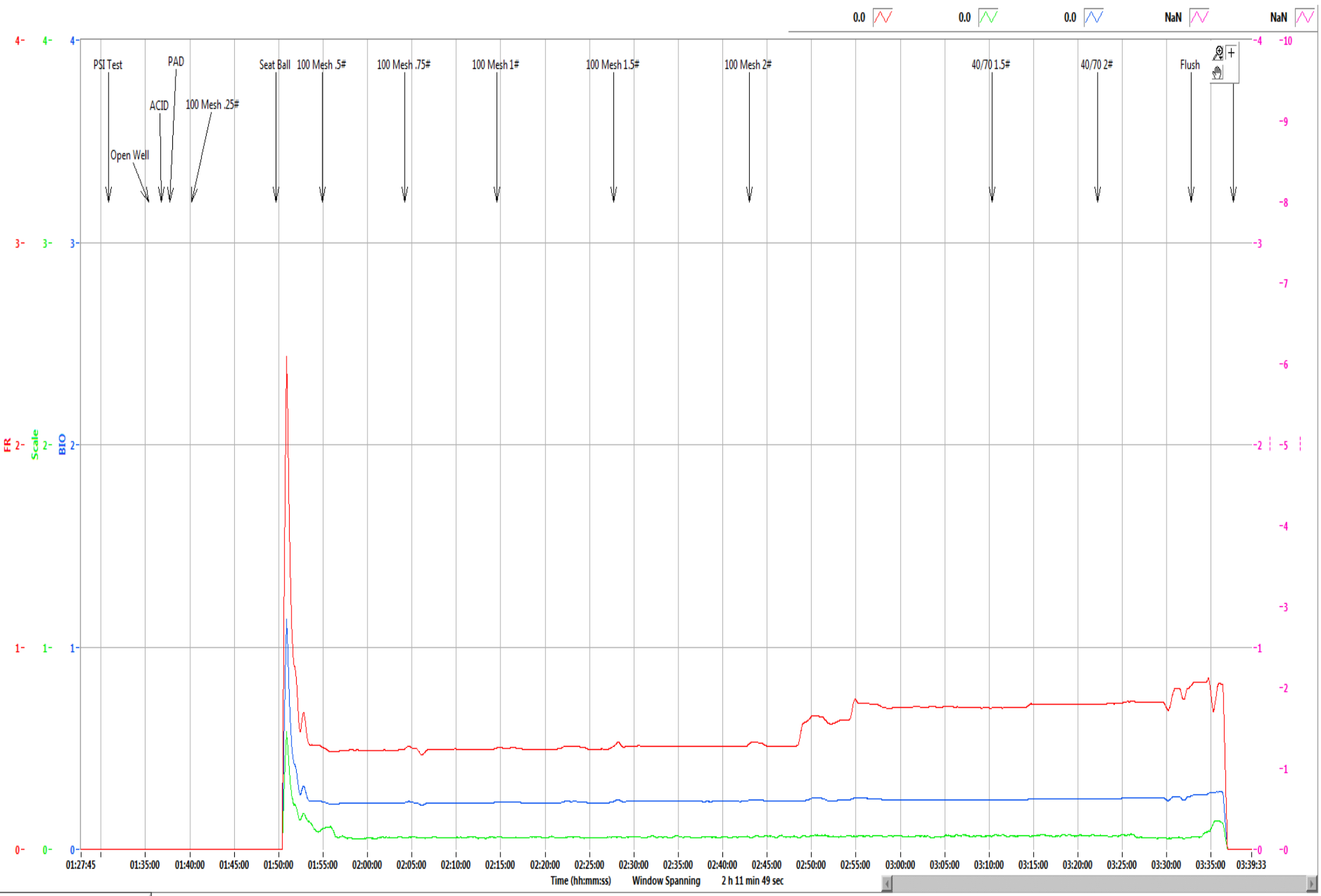
Post Stage Report
August 22, 2019

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Refresh Graph

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Boggess Pad	9H
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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: Bogges 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 DENSIOMETER		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

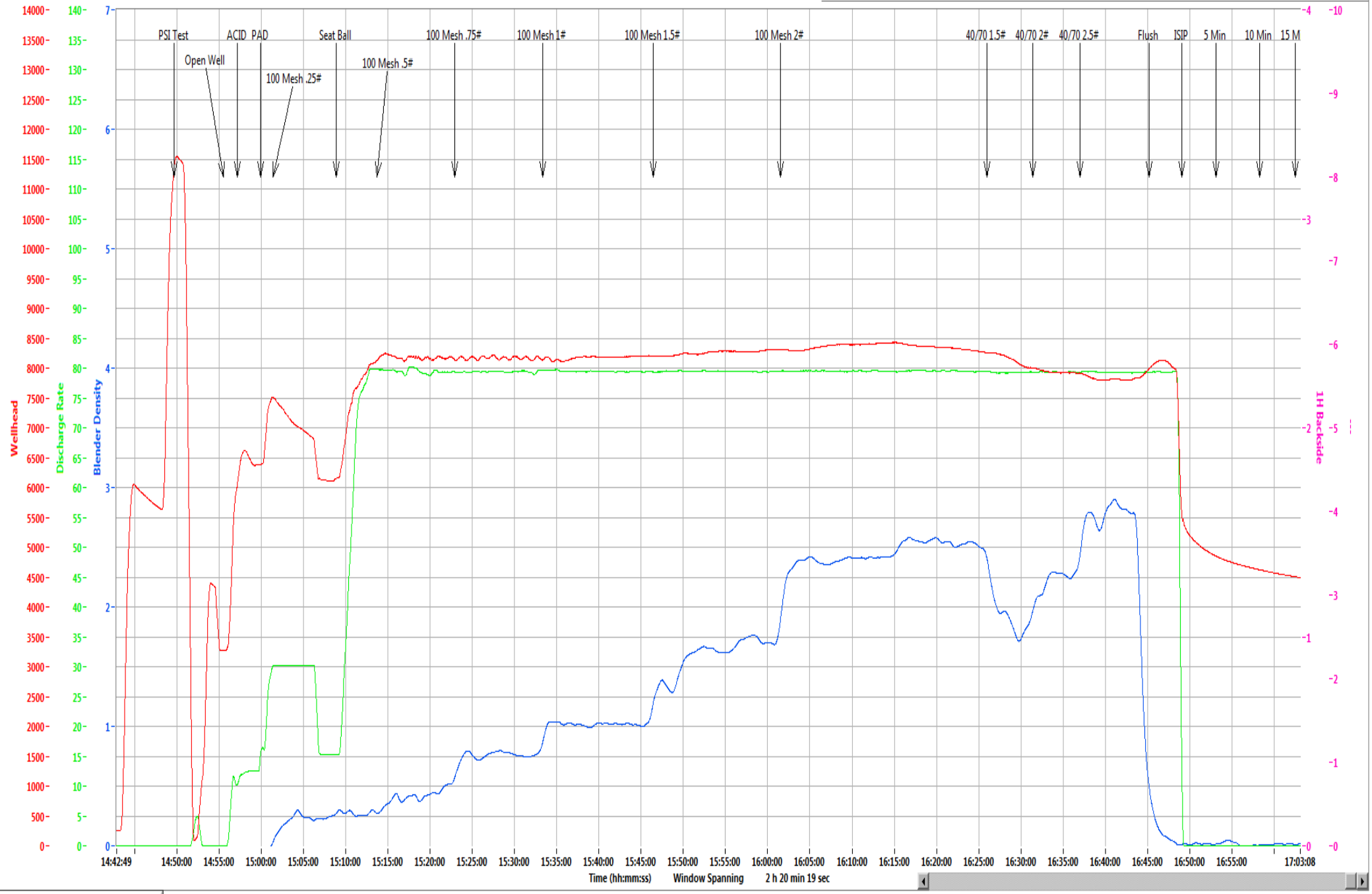
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NNE
Boggess 9H
Stage 40
Producers Service Corp.

Post Stage Report
August 22, 2019

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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: Bogges 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 DENSIOMETER		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:

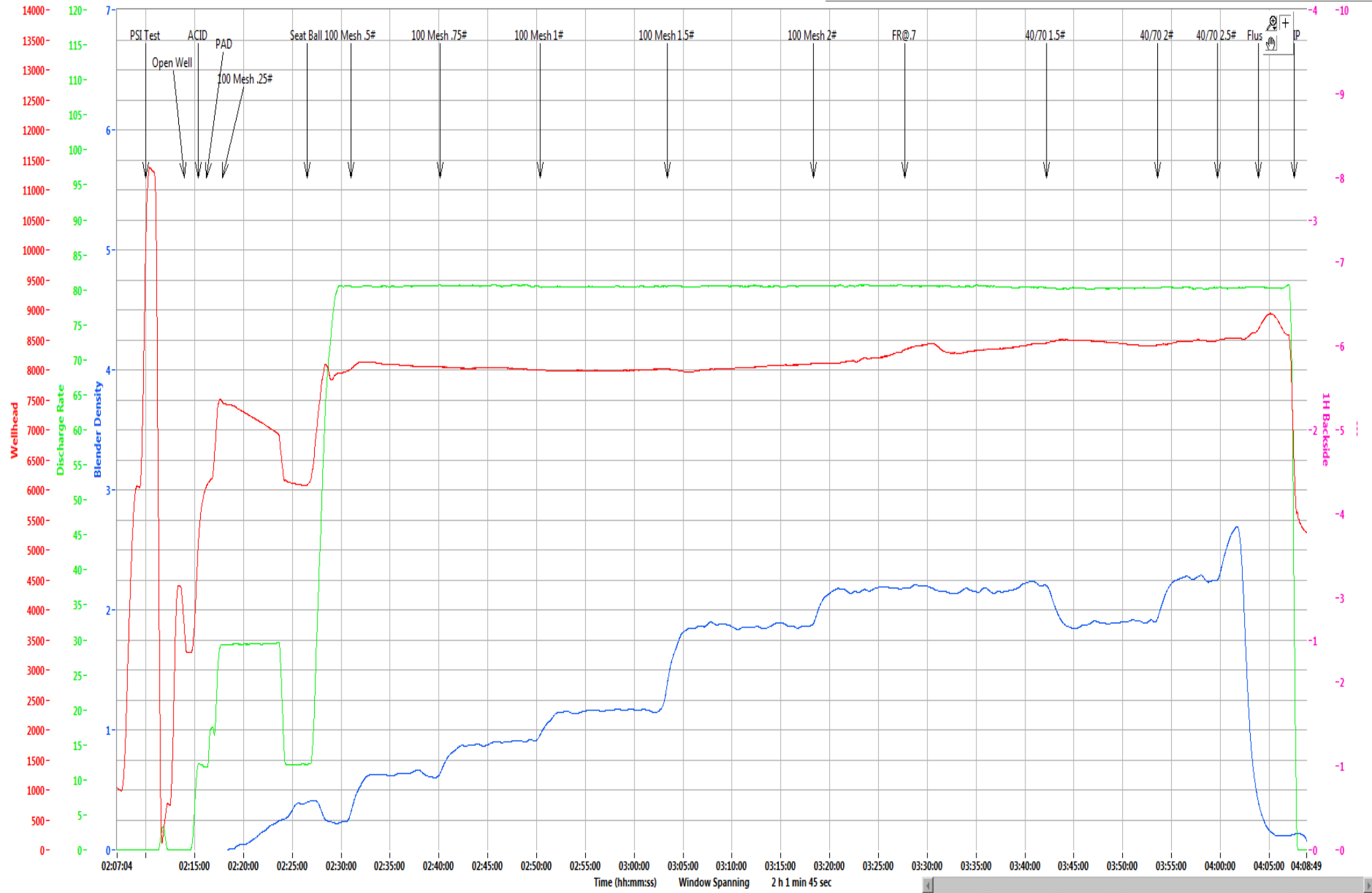
Kevin Hudson



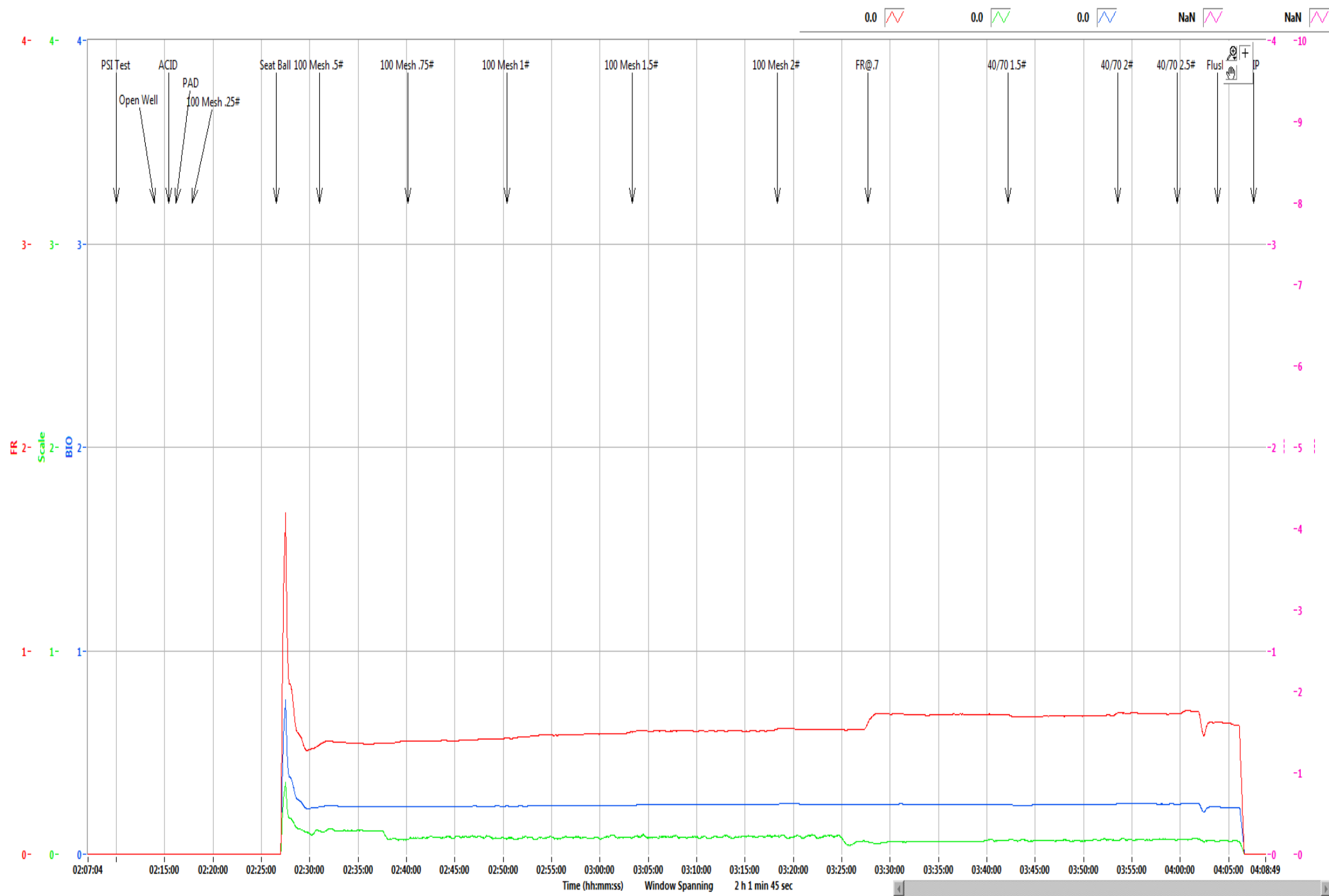
NNE
Boggess 9H
Stage 41
Producers Service Corp.

Post Stage Report
August 23, 2019

1028.8 0.0 -0.3 -42.9 NaN



Refresh Graph



Refresh Graph

Boggess Pad	9H
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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: Bogges 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	\$ -

Total No Discount \$ 59,403.65
 25% Discount Applied \$ 14,850.91
 Net Stage Total \$ 44,552.74

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

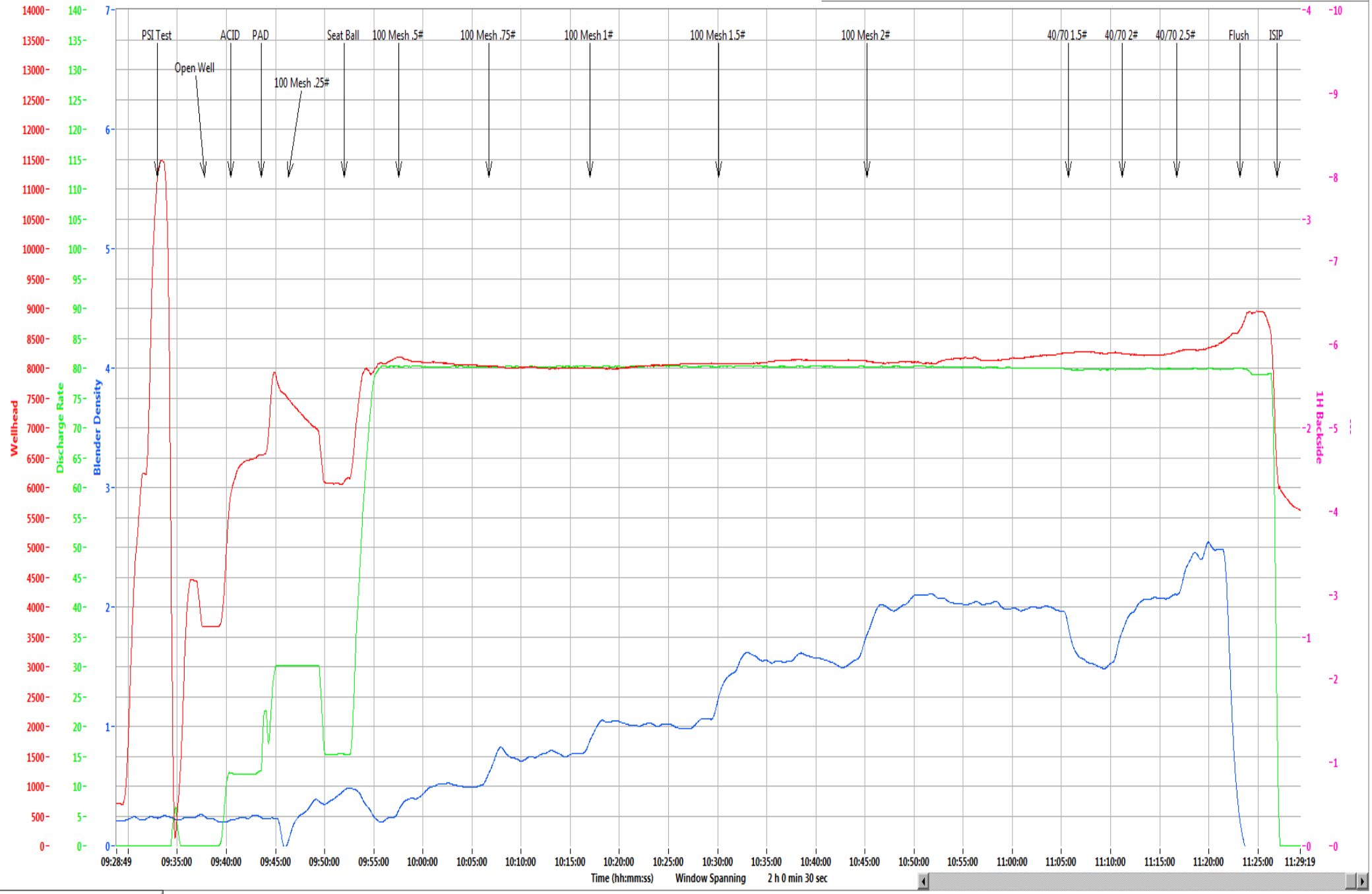
(Print Name) Customer Rep: Rob Larson Customer Signature: [Signature]



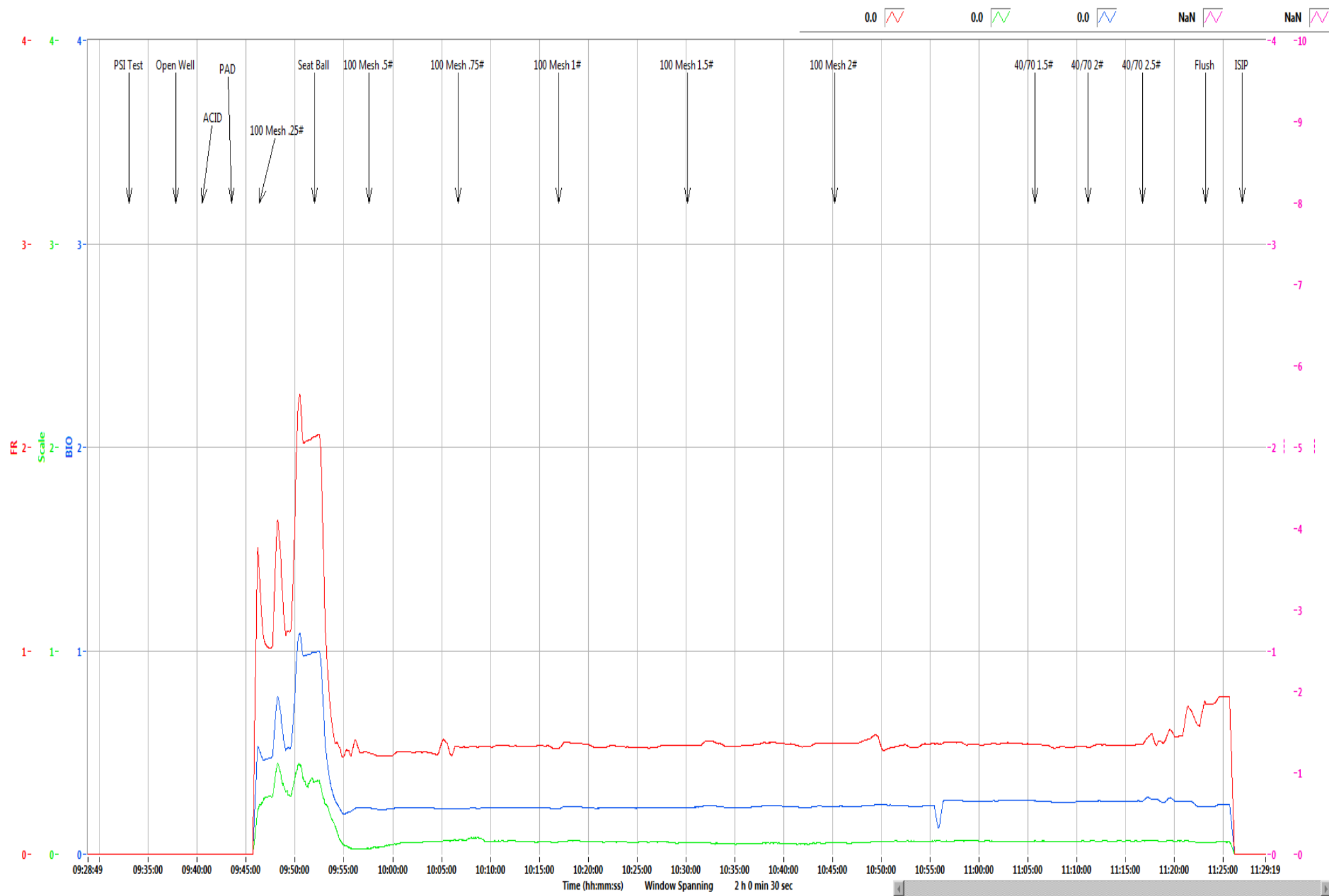
NNE
Bogges 9H
Stage 42
Producers Service Corp.

Post Stage Report
August 23, 2019

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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: Bogges 9H
 Stage No.: 42

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	3,040.00	CWT	\$ 5.50	\$ 16,720.00
SAND 40/70	40/70 white	999.40	CWT	\$ 5.75	\$ 5,746.55
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	187	GAL	\$ 17.75	\$ 3,319.25
BIOC11219A	Biocide @ 0.25 GPT	81	GAL	\$ 16.00	\$ 1,296.00
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 DENSIOMETER		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		201.97	TON	\$ 55.00	\$ 11,108.35
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 60,290.15
 25% Discount Applied \$ 15,072.54
 Net Stage Total \$ 45,217.61

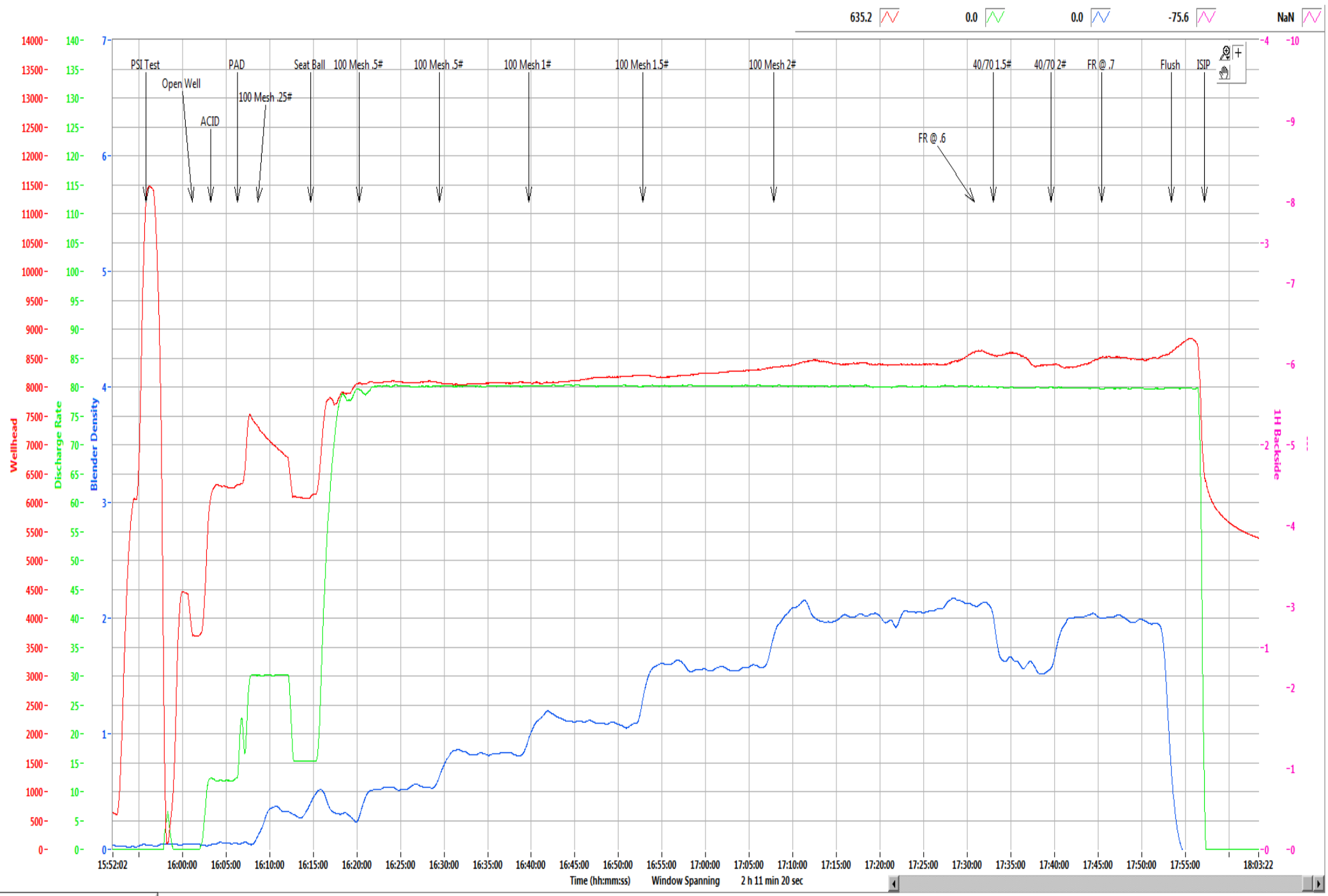
*****Scale used for upstream injection*****

(Print Name) Customer Rep: Kevin Hader Customer Signature: [Signature]



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: Bogges 9H
 Stage No.: 43

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	3,030.20	CWT	\$ 5.50	\$ 16,666.10
SAND 40/70	40/70 white	1,013.00	CWT	\$ 5.75	\$ 5,824.75
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	182	GAL	\$ 17.75	\$ 3,230.50
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 DENSIOMETER		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		202.16	TON	\$ 55.00	\$ 11,118.80
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 60,300.15
 25% Discount Applied \$ 15,075.04
 Net Stage Total \$ 45,225.11

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

(Print Name) Rob Cowger Customer Signature: [Signature]
 Customer Rep: Rob Cowger

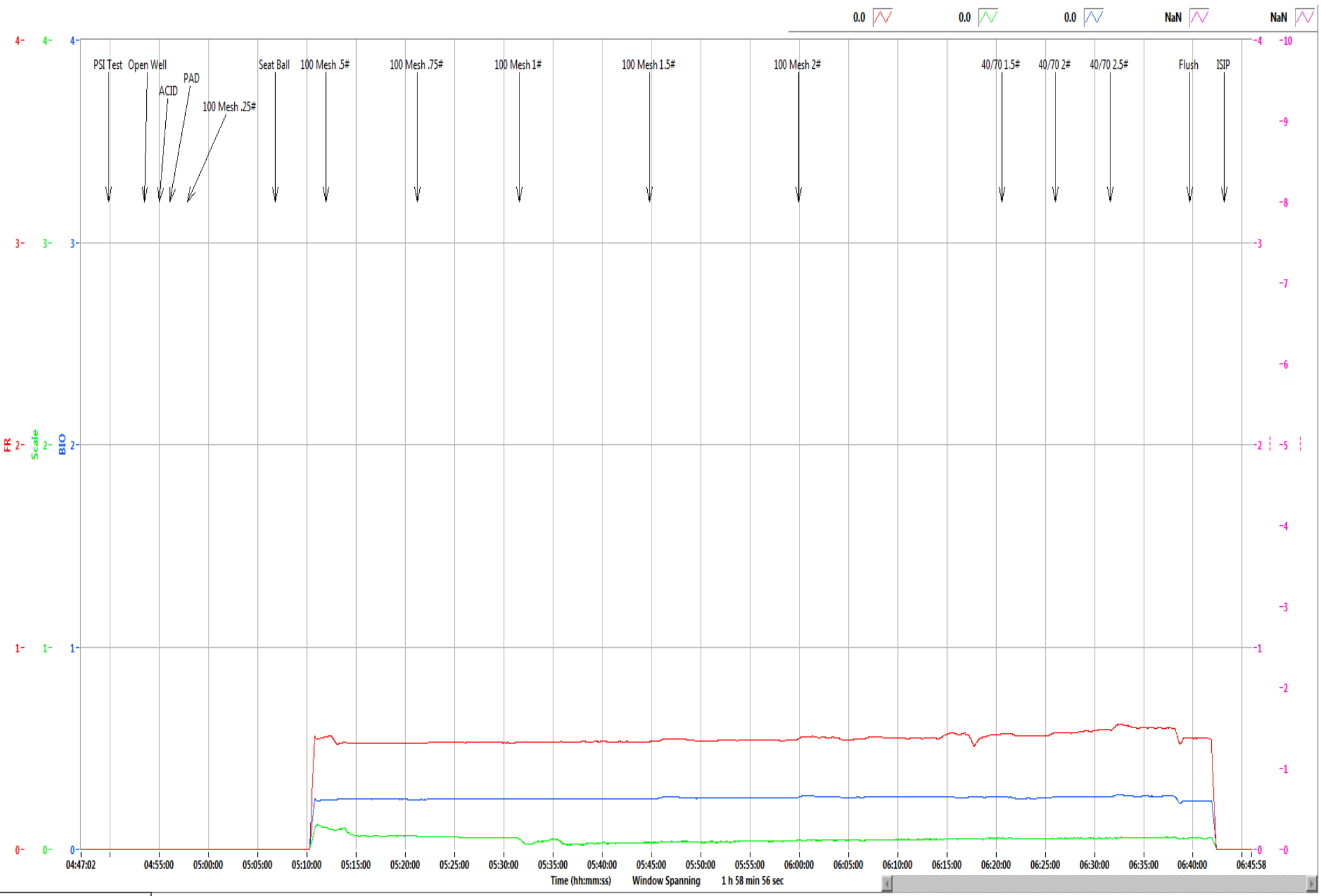


NNE
Bogges 9H
Stage 44
Producers Service Corp.

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: Bogges 9H
 Stage No.: 44

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
SAND 80/100	80/100 white	3,005.80	CWT	\$ 5.50	\$ 16,531.90
SAND 40/70	40/70 white	1,004.60	CWT	\$ 5.75	\$ 5,776.45
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	161	GAL	\$ 17.75	\$ 2,857.75
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		200.52	TON	\$ 55.00	\$ 11,028.60
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 58,270.70
 25% Discount Applied \$ 14,567.68
 Net Stage Total \$ 43,703.03

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

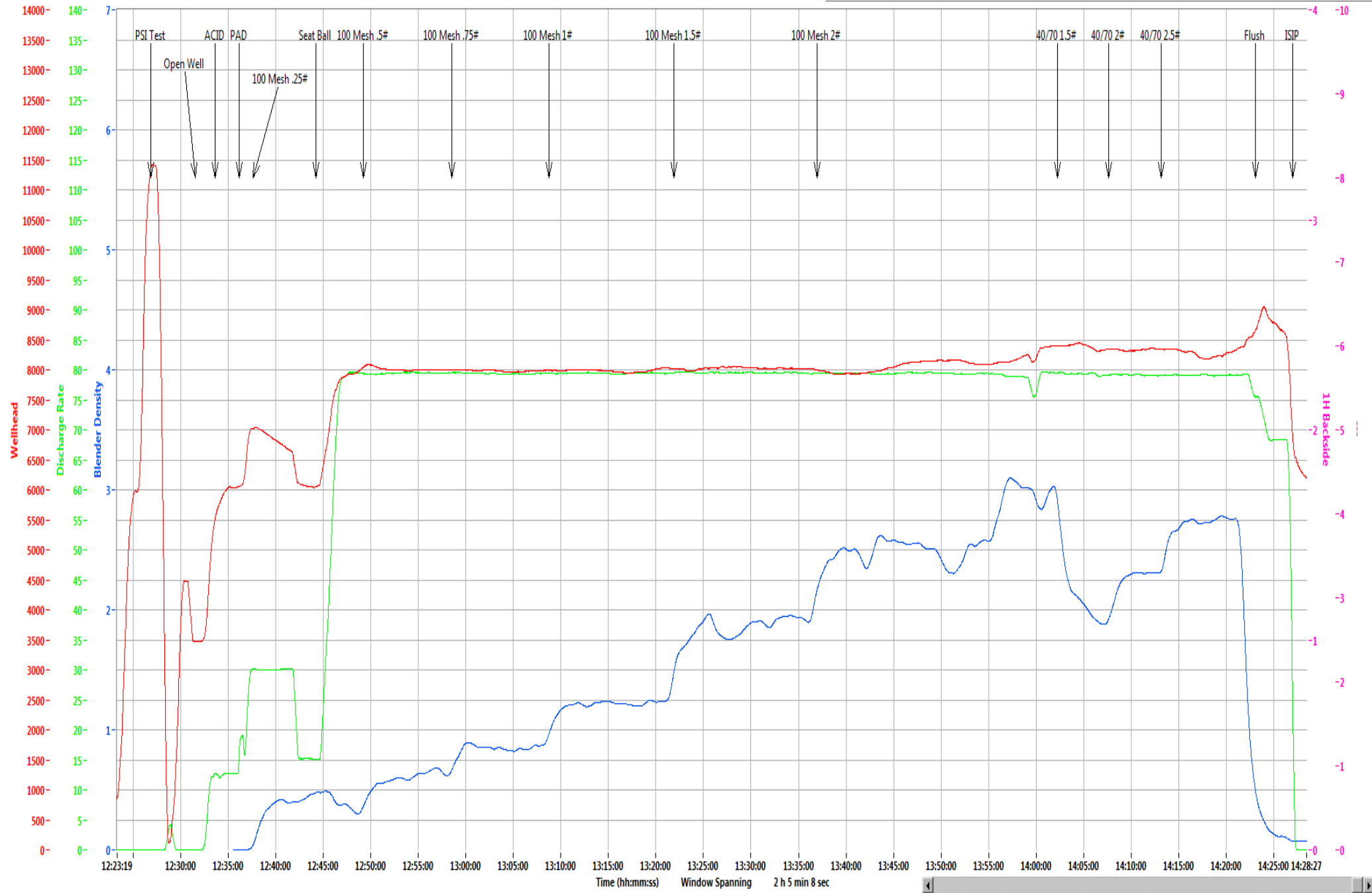
(Print Name) Kevin Hoken Customer Rep: _____ Customer Signature: [Signature]



NNE
Boggess 9H
Stage 45
Producers Service Corp.

Post Stage Report
August 24, 2019

862.7 0.0 -0.0 -49.9 NaN



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: Bogges 9H
 Stage No.: 45

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	2,994.60	CWT	\$ 5.50	\$ 16,470.30
SAND 40/70	40/70 white	1,053.60	CWT	\$ 5.75	\$ 6,058.20
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	171	GAL	\$ 17.75	\$ 3,035.25
BIOC11219A	Biocide @ 0.25 GPT	85	GAL	\$ 16.00	\$ 1,360.00
SCAL16846A	Scale Control @ 0.05 GPT	22	GAL	\$ 16.00	\$ 352.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		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		202.41	TON	\$ 55.00	\$ 11,132.55
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 60,188.30
 25% Discount Applied \$ 15,047.08
 Net Stage Total \$ 45,141.23

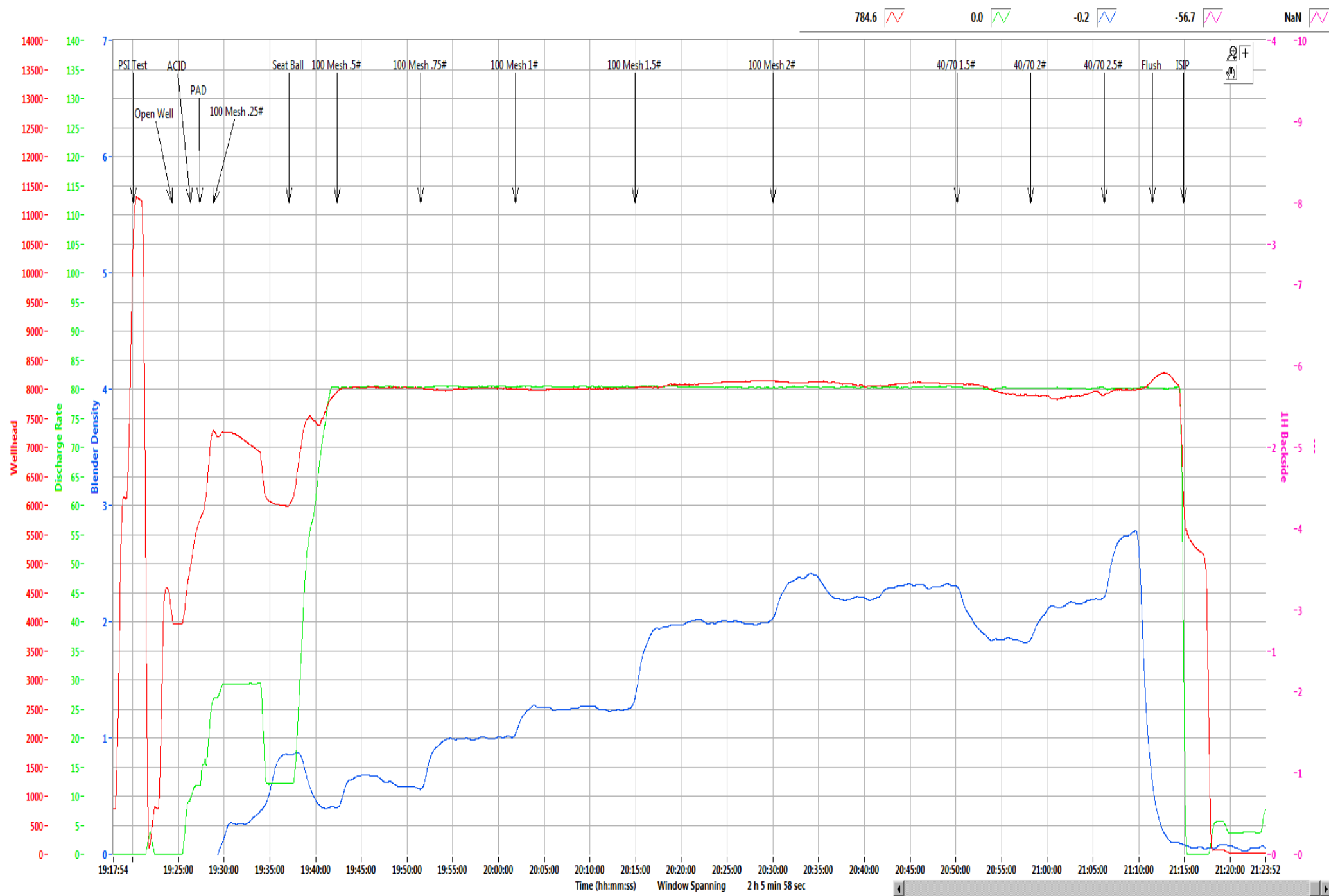
*****Scale used for upstream injection*****

(Print Name) Customer Rep: Kevin Hudson Customer Signature: [Signature]



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: Bogges 9H
 Stage No.: 46

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
SAND 80/100	80/100 white	3,004.40	CWT	\$ 5.50	\$ 16,524.20
SAND 40/70	40/70 white	1,025.80	CWT	\$ 5.75	\$ 5,898.35
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 DENSIOMETER		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		201.51	TON	\$ 55.00	\$ 11,083.05
DIESEL FUEL	Not eligible for discount	167	GAL	\$ 3.04	\$ 507.68

Total No Discount \$ 58,510.35
 25% Discount Applied \$ 14,627.59
 Net Stage Total \$ 44,390.44

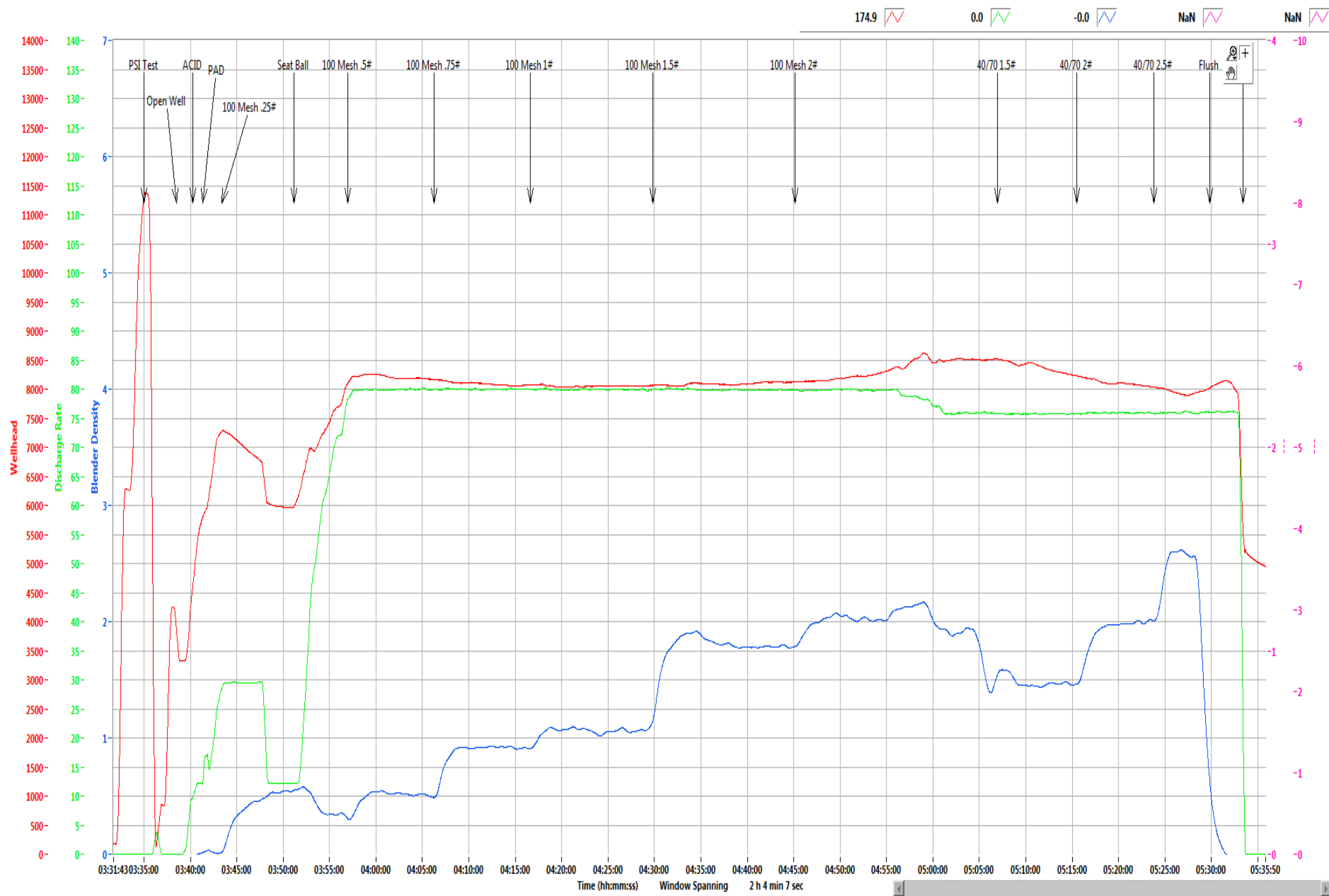
*****Scale used for upstream injection*****

(Print Name) Rob Cargen Customer Signature: [Signature]
 Customer Rep: _____

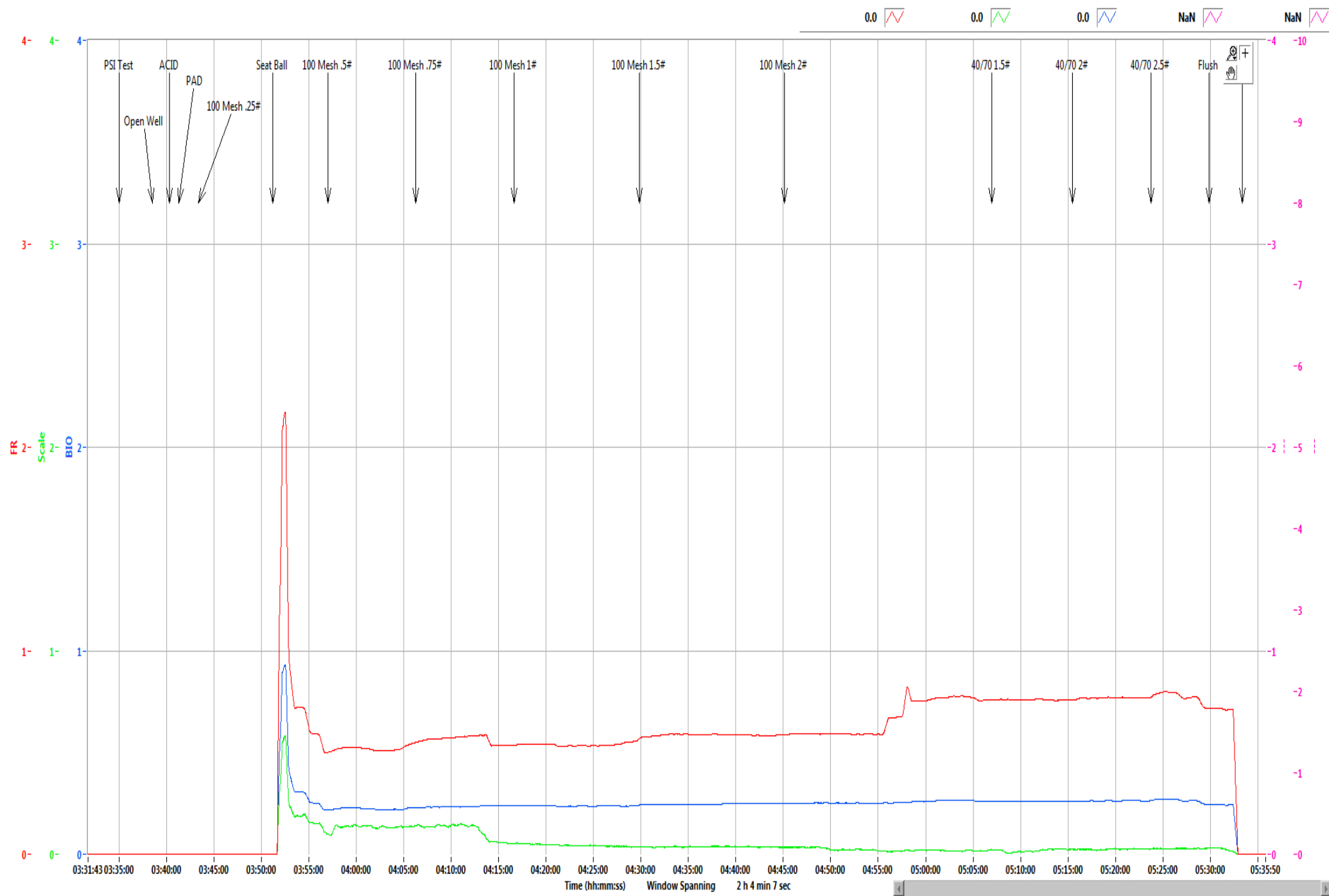


NNE
Boggess 9H
Stage 47
Producers Service Corp.

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: Bogges 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
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
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		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
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 59,154.95
 25% Discount Applied \$ 14,788.74
 Net Stage Total \$ 44,366.21

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

(Print Name)

Customer Rep: Rob Cooney

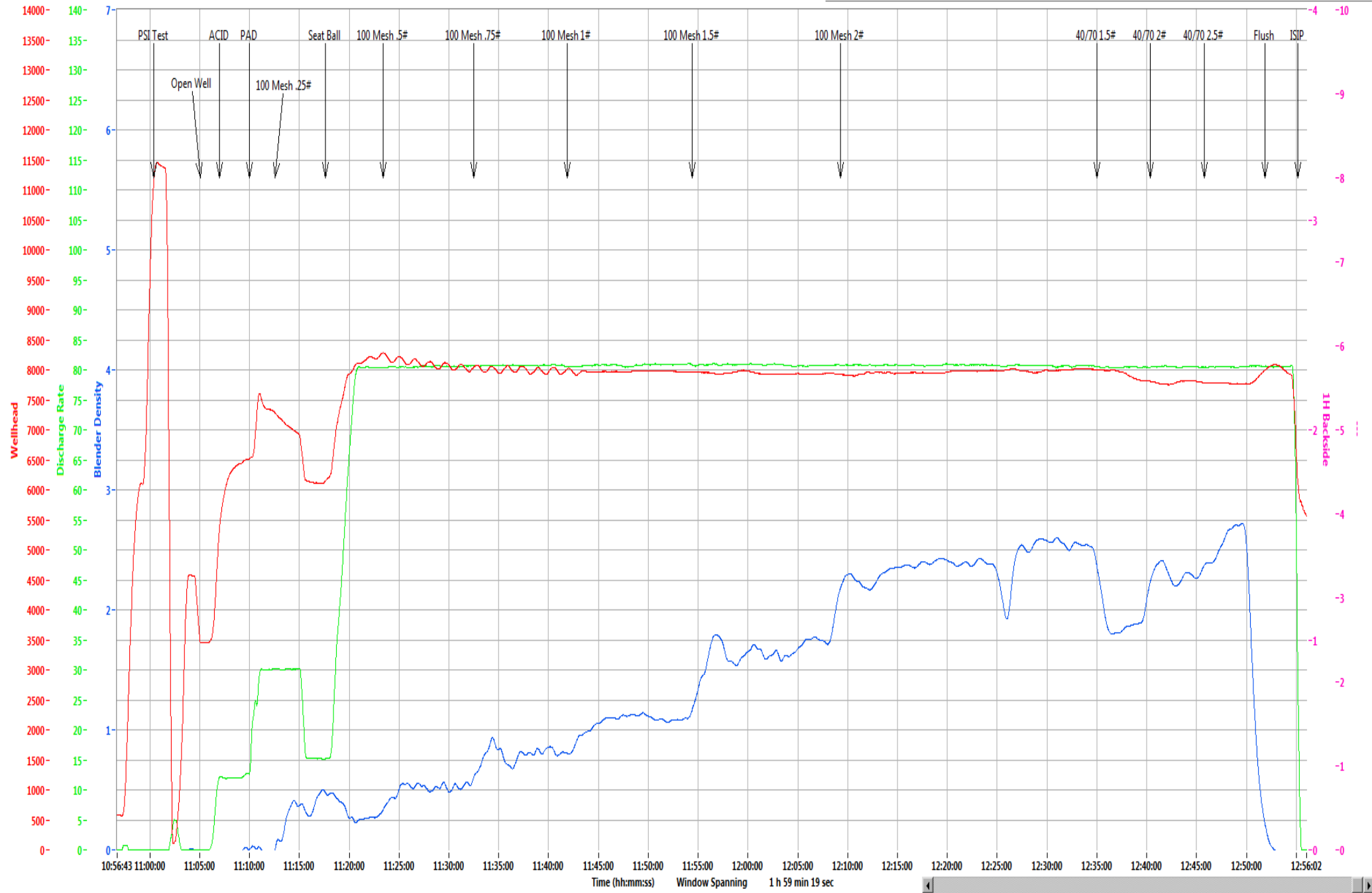
Customer Signature: [Signature]



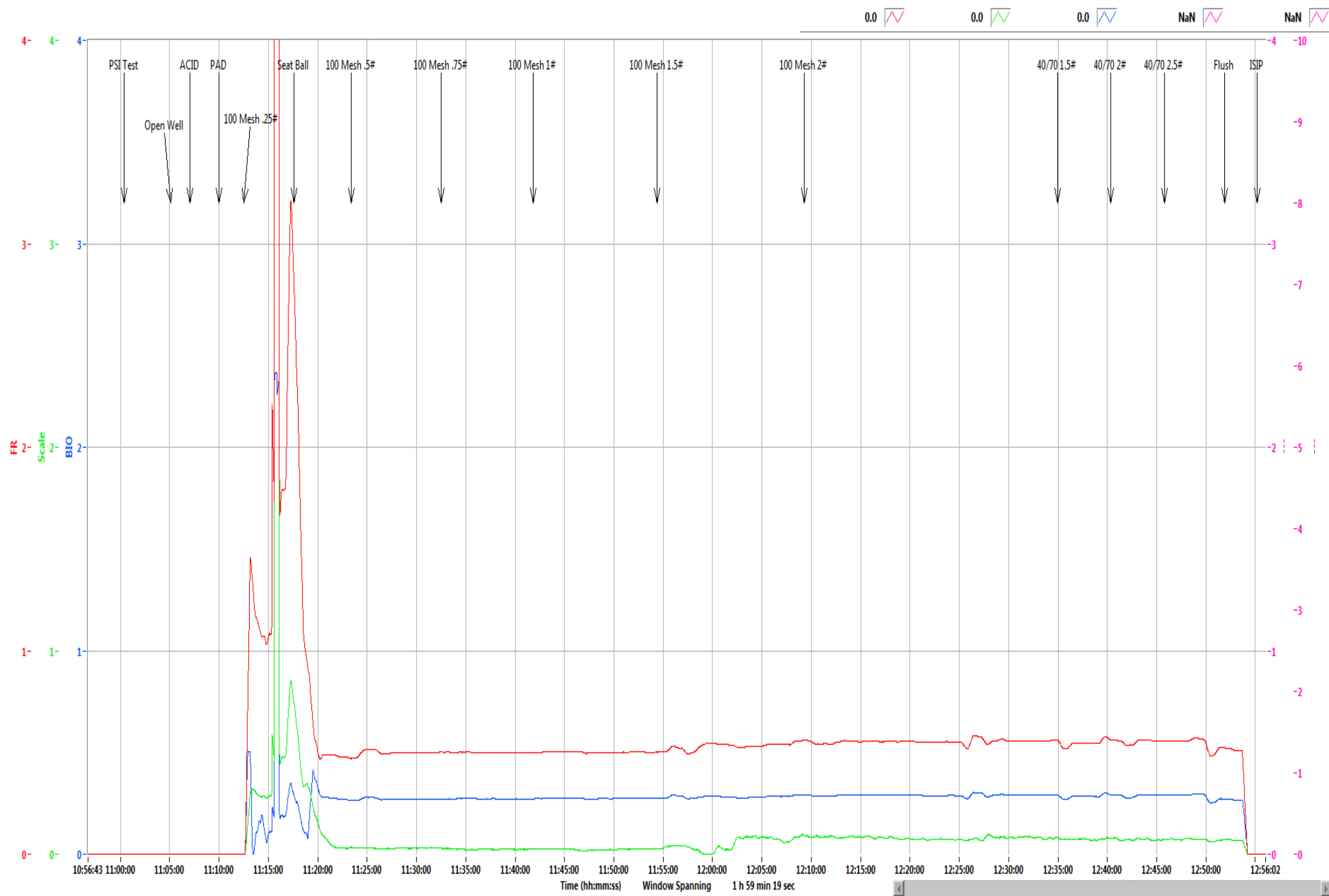
NNE
Boggess 9H
Stage 48
Producers Service Corp.

Post Stage Report
August 25, 2019

577.2 0.0 -0.2 -58.1 NaN



Refresh Graph



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

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	3,041.40	CWT	\$ 5.50	\$ 16,727.70
SAND 40/70	40/70 white	999.20	CWT	\$ 5.75	\$ 5,745.40
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	163	GAL	\$ 17.75	\$ 2,893.25
BIOC11219A	Biocide @ 0.25 GPT	82	GAL	\$ 16.00	\$ 1,312.00
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 DENSIOMETER		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		202.03	TON	\$ 55.00	\$ 11,111.65
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 59,906.00
 25% Discount Applied \$ 14,976.50
 Net Stage Total \$ 44,929.50

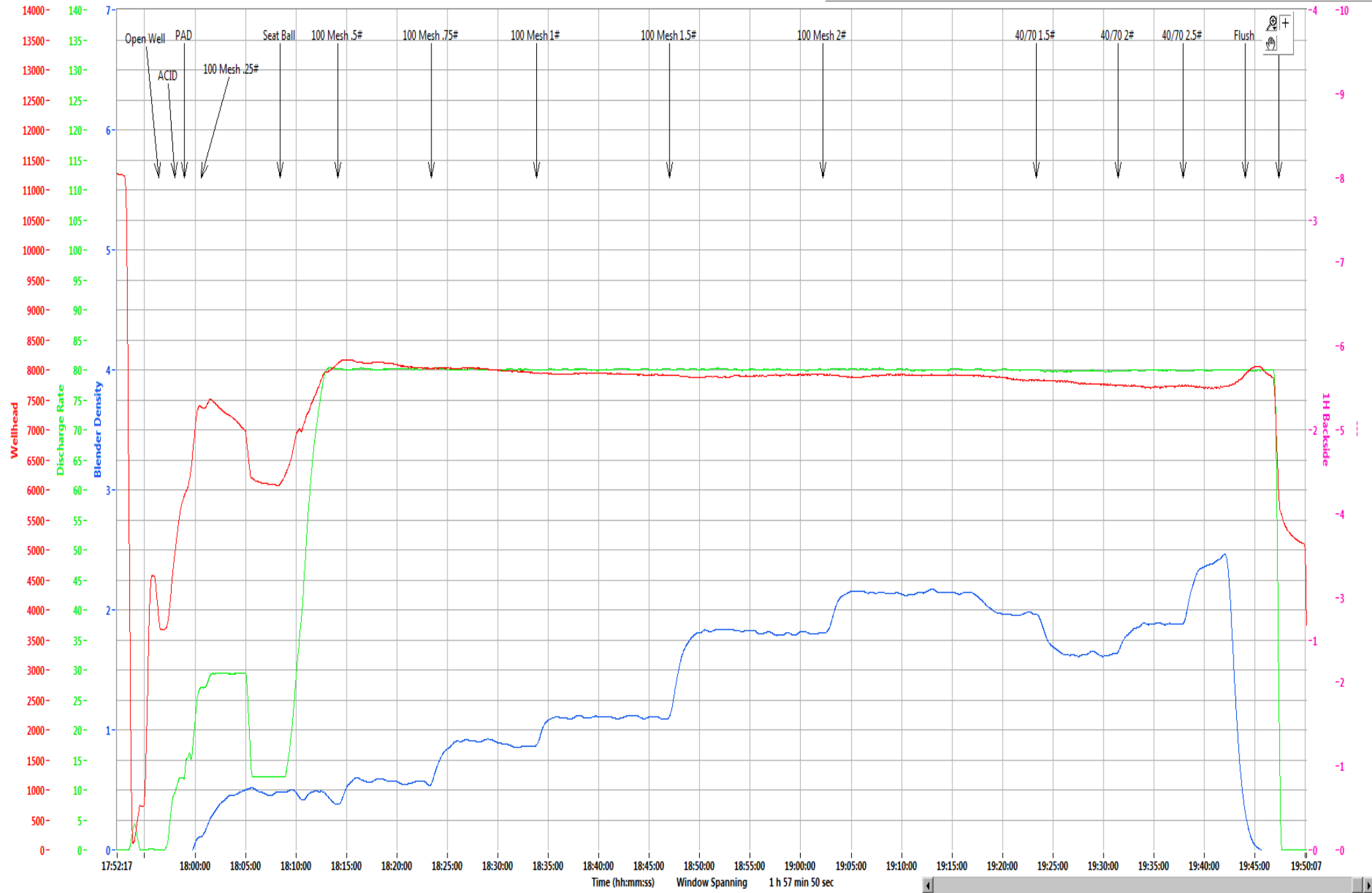
*****Scale used for upstream injection*****

(Print Name) Customer Rep: Kevin W Hudson Customer Signature: [Signature]

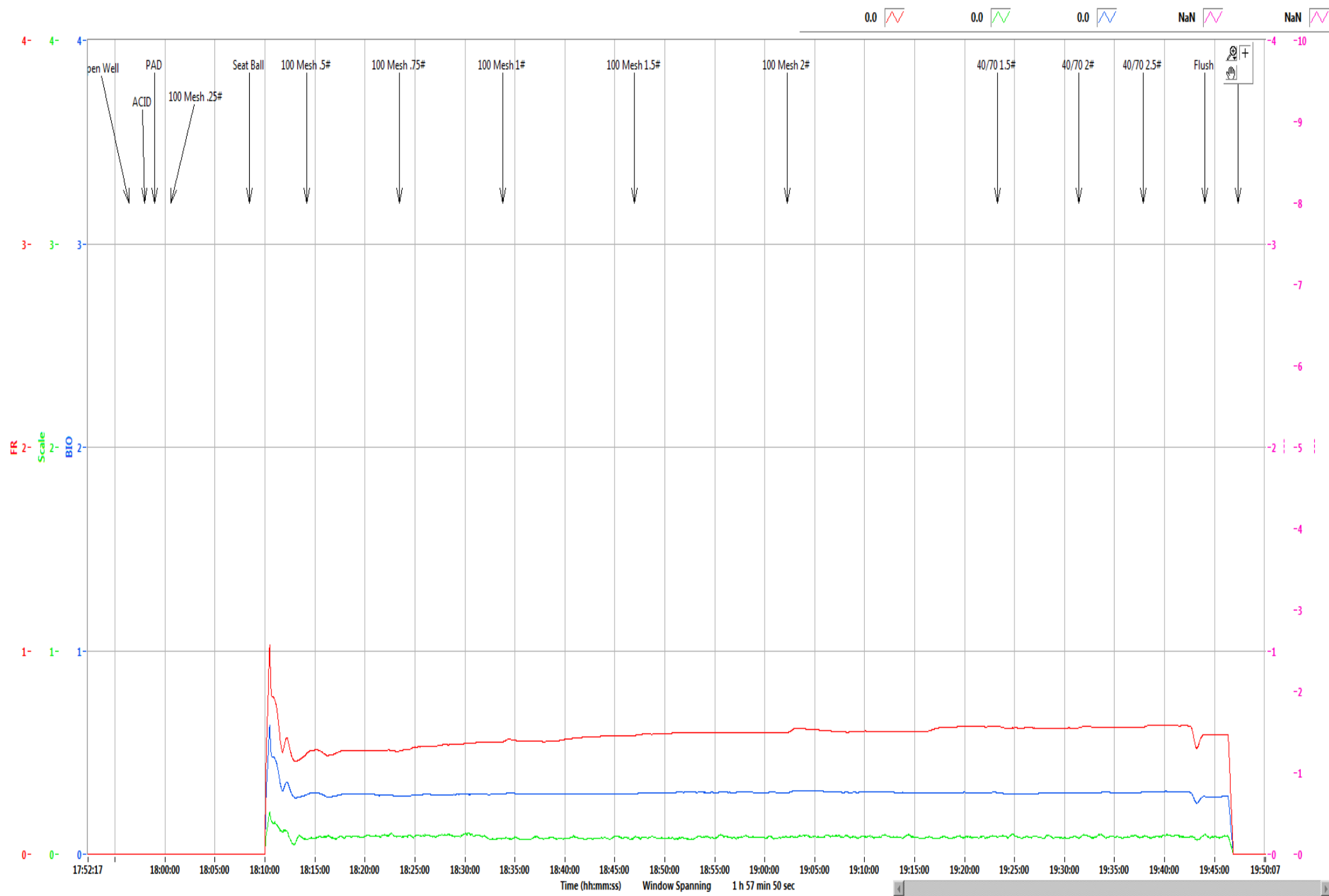


NNE
Boggess 9H
Stage 49
Producers Service Corp.

Post Stage Report
August 25, 2019



Refresh Graph



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

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	3,099.80	CWT	\$ 5.50	\$ 17,048.90
SAND 40/70	40/70 white	978.80	CWT	\$ 5.75	\$ 5,628.10
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 DENSIOMETER		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		203.93	TON	\$ 55.00	\$ 11,216.15
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 58,817.90
 25% Discount Applied \$ 14,704.48
 Net Stage Total \$ 44,113.43

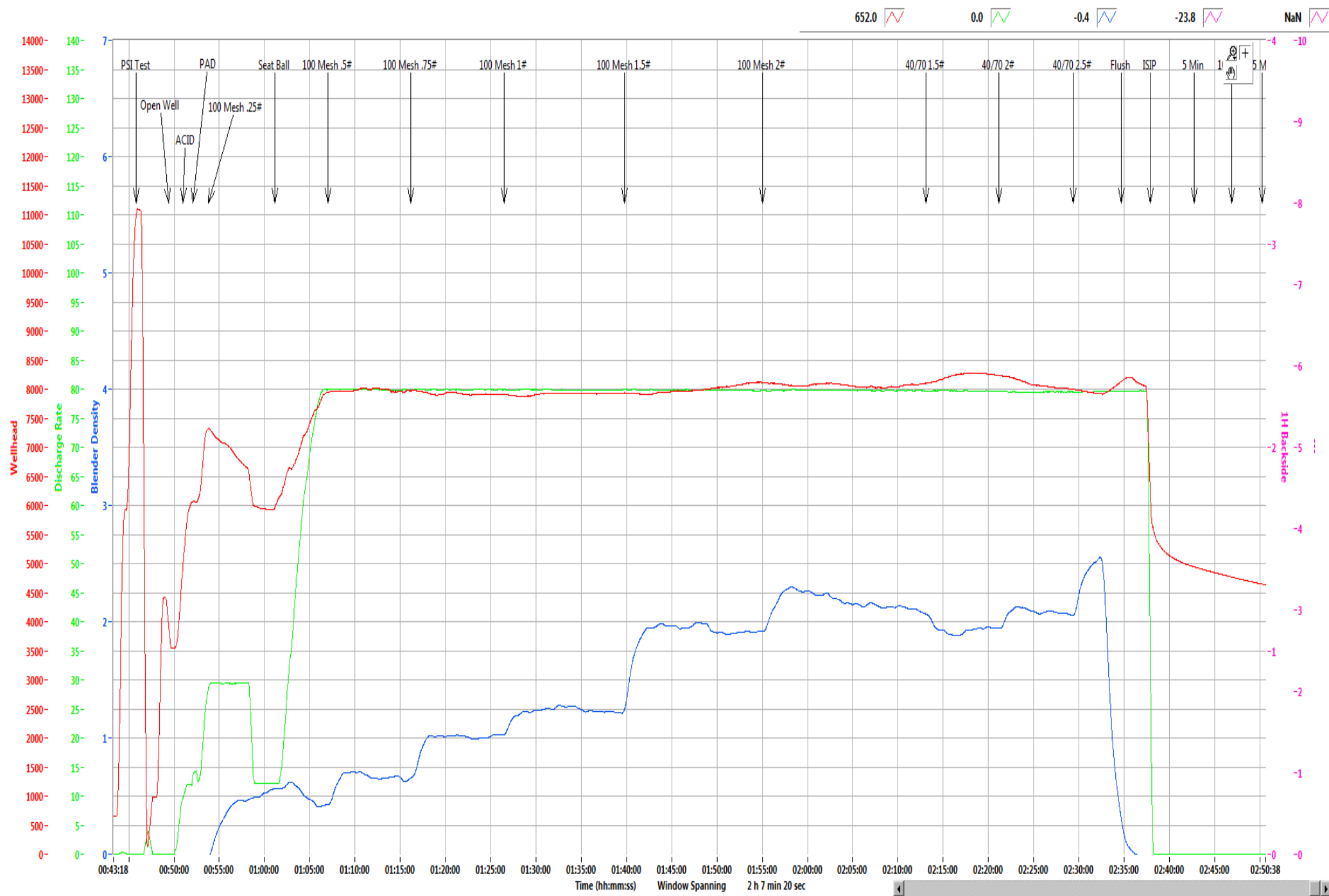
*****Scale used for upstream injection*****

(Print Name) Customer Rep: Rob Cowan Customer Signature: RA Cowan

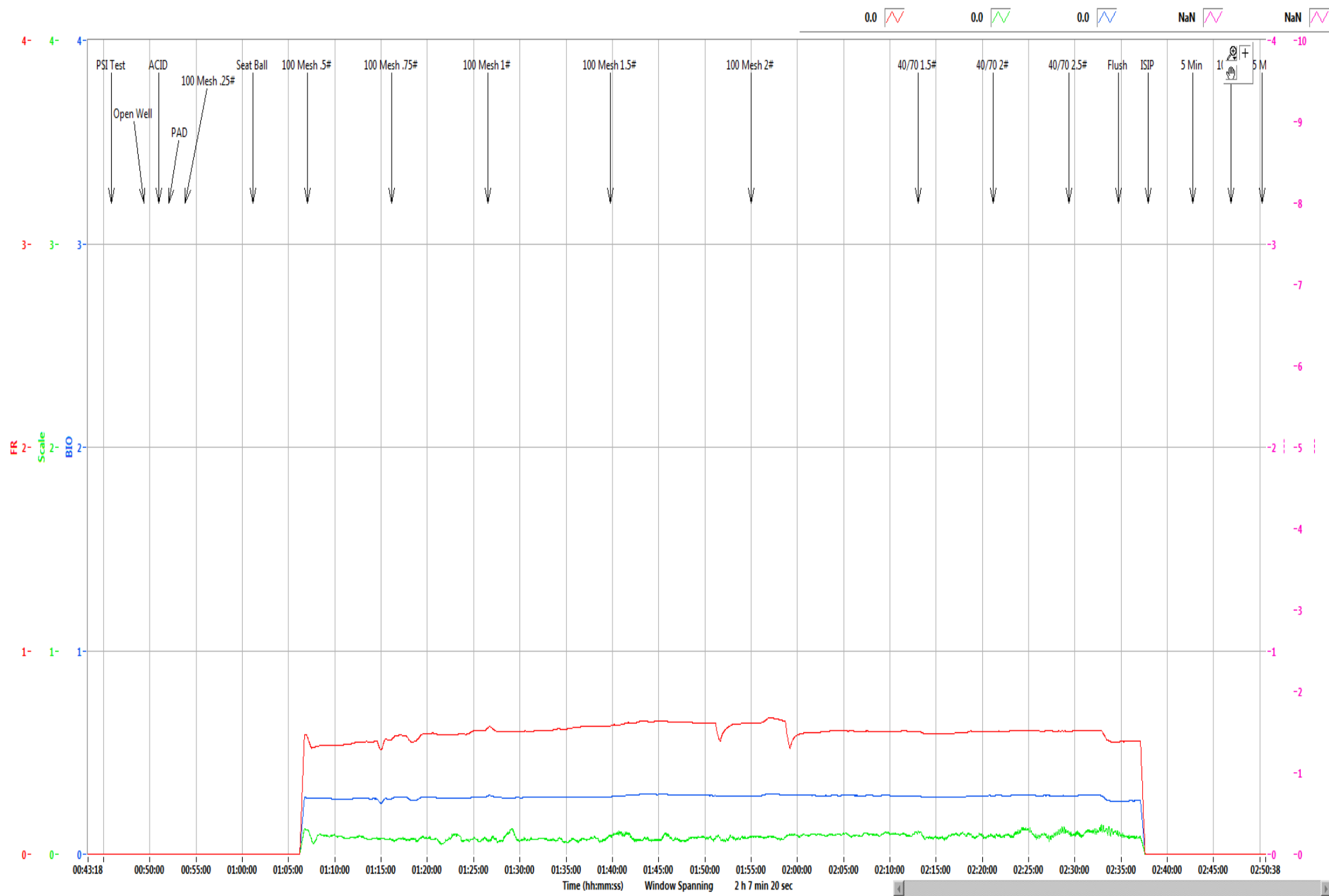


NNE
Boggess 9H
Stage 50
Producers Service Corp.

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



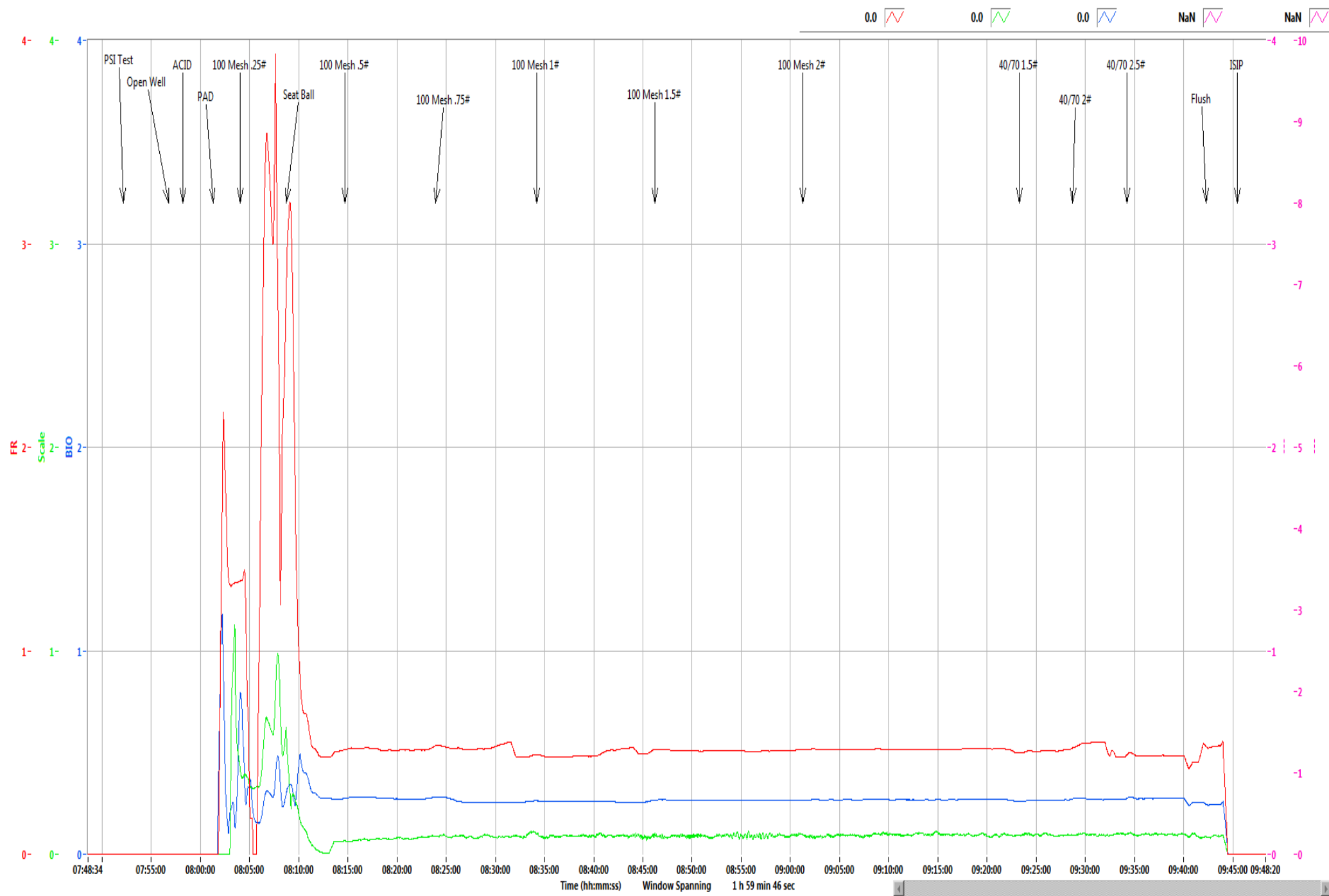
NNE
Boggess 9H
Stage 51
Producers Service Corp.

Post Stage Report
August 26, 2019



Refresh Graph

Time (hh:mm:ss) Window Spanning 1 h 59 min 46 sec



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: Bogges 9H
 Stage No.: 51

State: WV
 County: Monongahela
 Operator: Moon/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	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	3,016.40	CWT	\$ 5.50	\$ 16,590.20
SAND 40/70	40/70 white	988.80	CWT	\$ 5.75	\$ 5,685.60
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	156	GAL	\$ 17.75	\$ 2,769.00
BIOC11219A	Biocide @ 0.25 GPT	79	GAL	\$ 16.00	\$ 1,264.00
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 DENSIOMETER		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		200.26	TON	\$ 55.00	\$ 11,014.30
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 59,423.10
 25% Discount Applied \$ 14,855.78
 Net Stage Total \$ 44,567.33

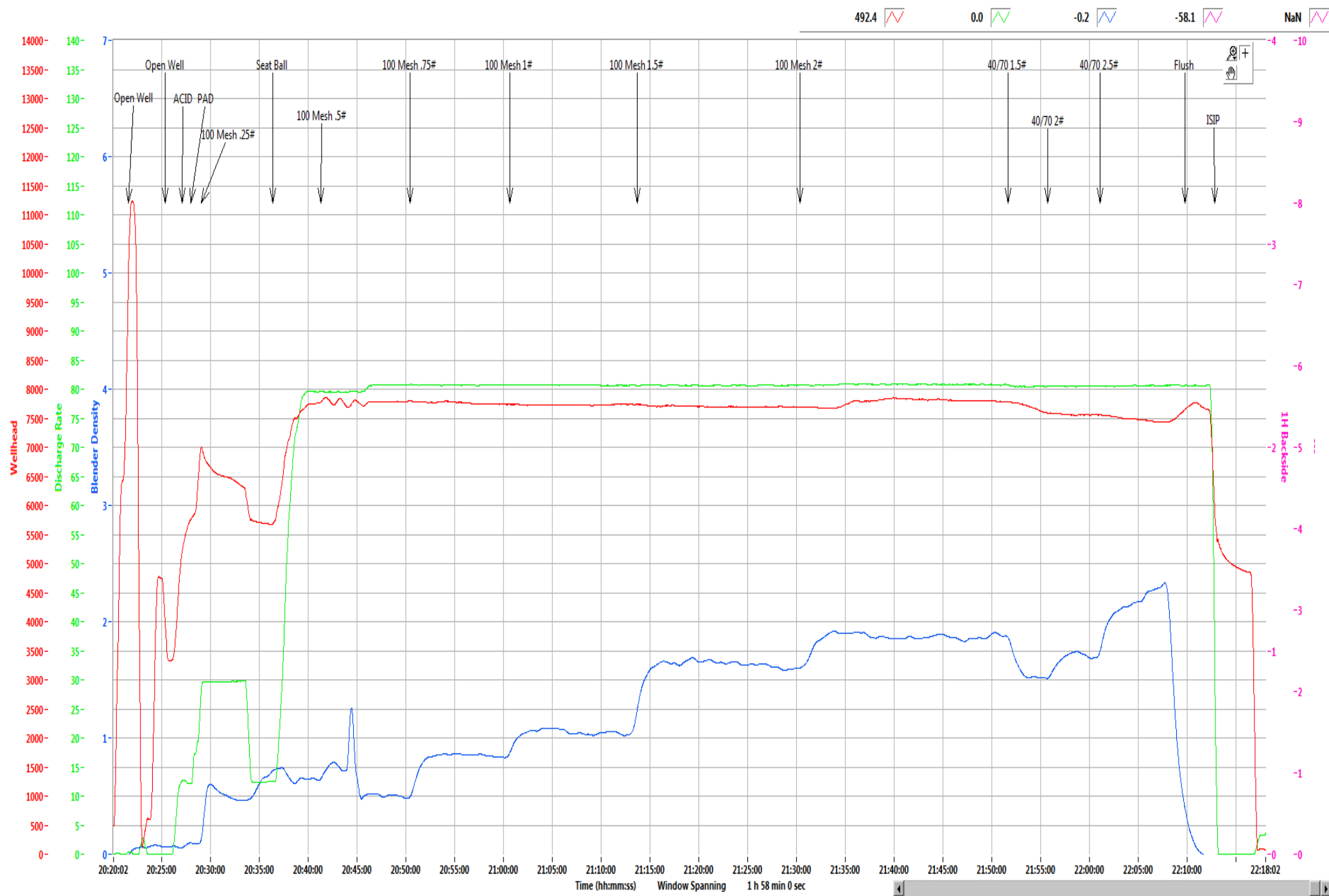
*****Scale used for upstream injection*****

(Print Name) Kavir Hada Customer Signature: [Signature]
 Customer Rep: [Signature]

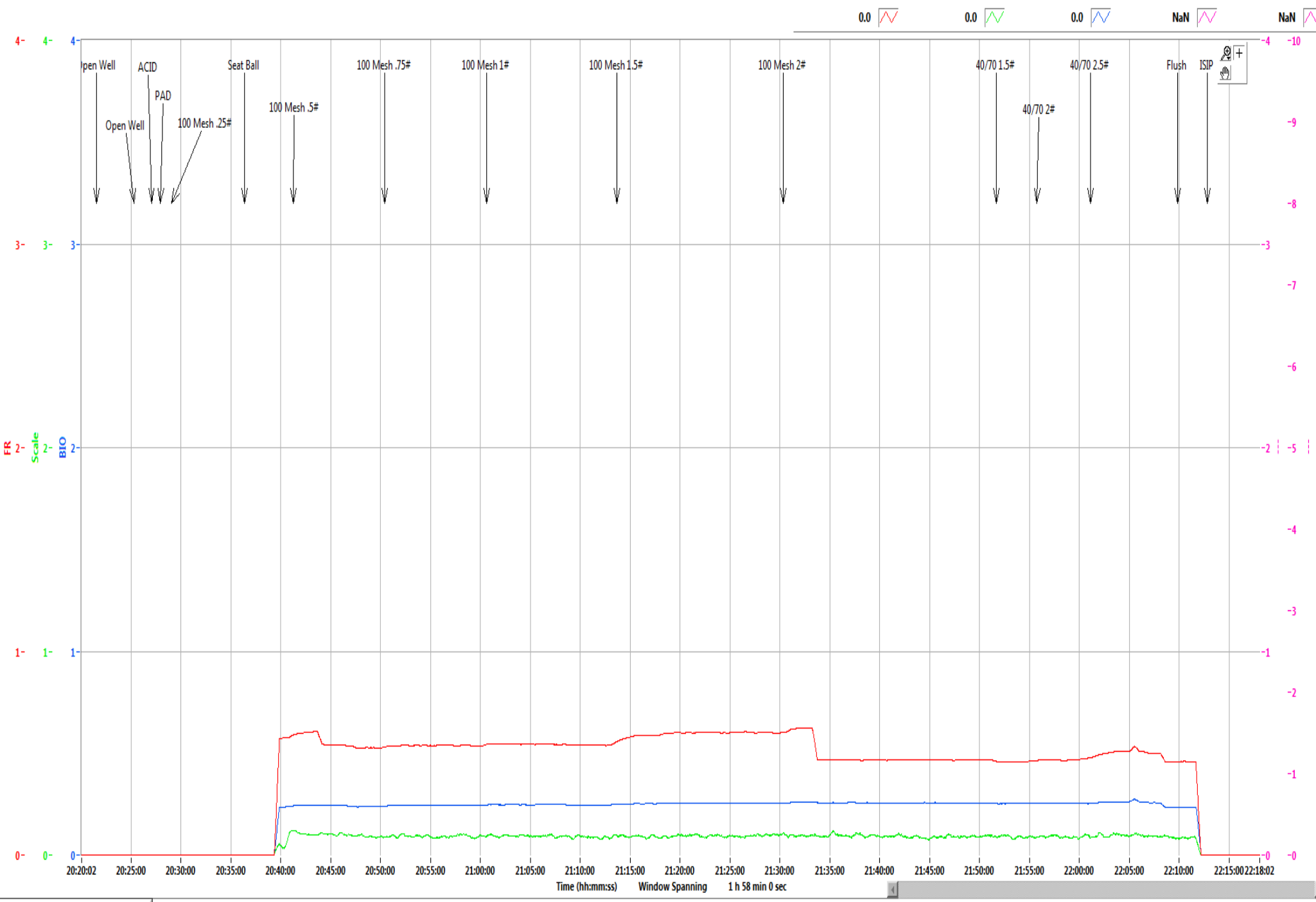


NNE
Boggess 9H
Stage 52
Producers Service Corp.

Post Stage Report
August 26, 2019



Refresh Graph



Refresh Graph

Time (hh:mm:ss) Window Spanning 1 h 58 min 0 sec

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

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	3,042.40	CWT	\$ 5.50	\$ 16,733.20
SAND 40/70	40/70 white	948.20	CWT	\$ 5.75	\$ 5,452.15
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	160	GAL	\$ 17.75	\$ 2,840.00
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 DENSIOMETER		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		199.53	TON	\$ 55.00	\$ 10,974.15
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 58,027.50
25% Discount Applied \$ 14,506.88
Net Stage Total \$ 43,520.63

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

(Print Name)
Customer Rep:

Rob Coe

Customer Signature:

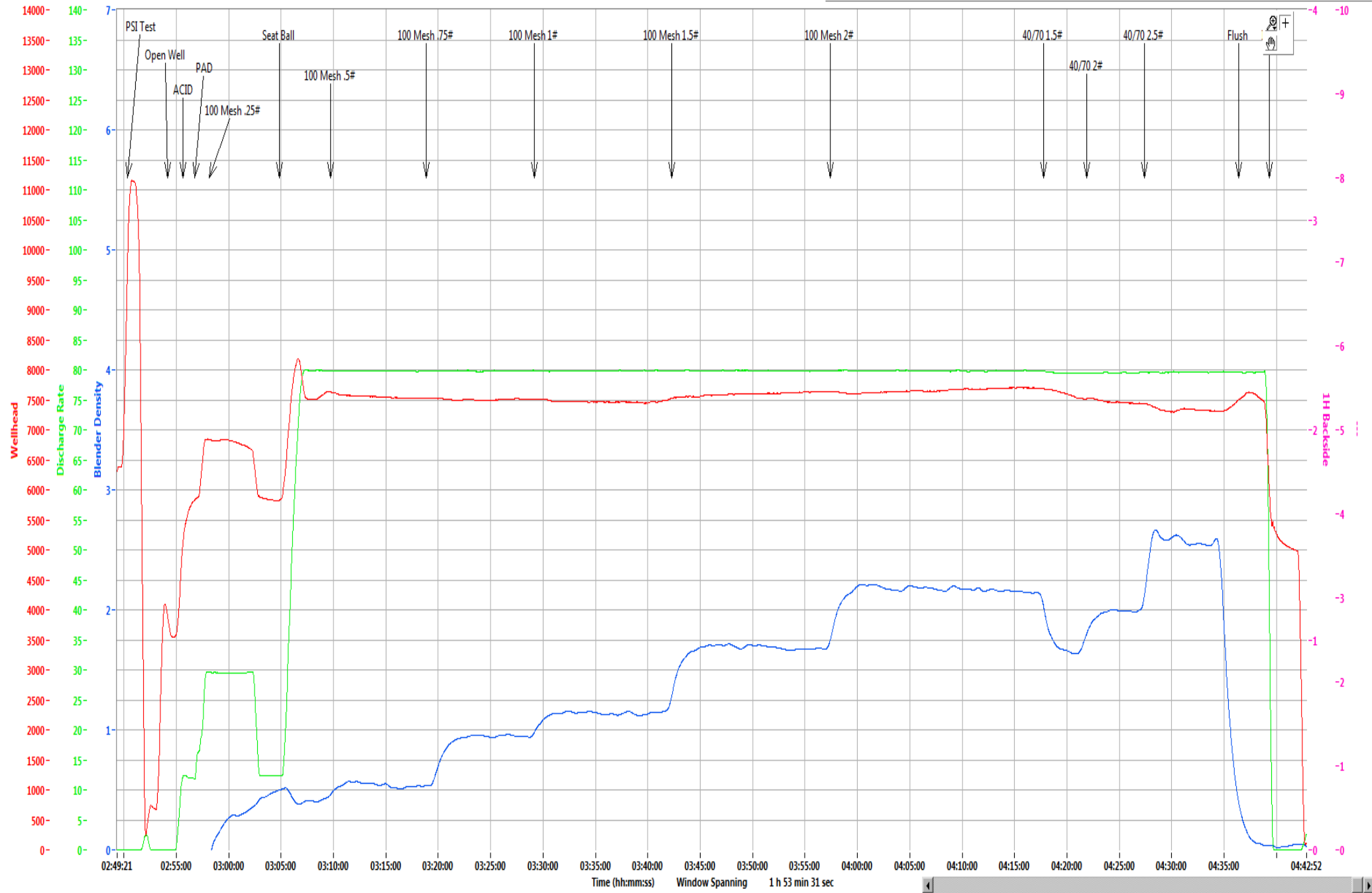
R. Coe



NNE
Boggess 9H
Stage 53
Producers Service Corp.

Post Stage Report
August 27, 2019

6305.3 0.0 -0.4 -74.7 NaN



Refresh Graph

Time (hh:mm:ss) Window Spanning 1 h 53 min 31 sec



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

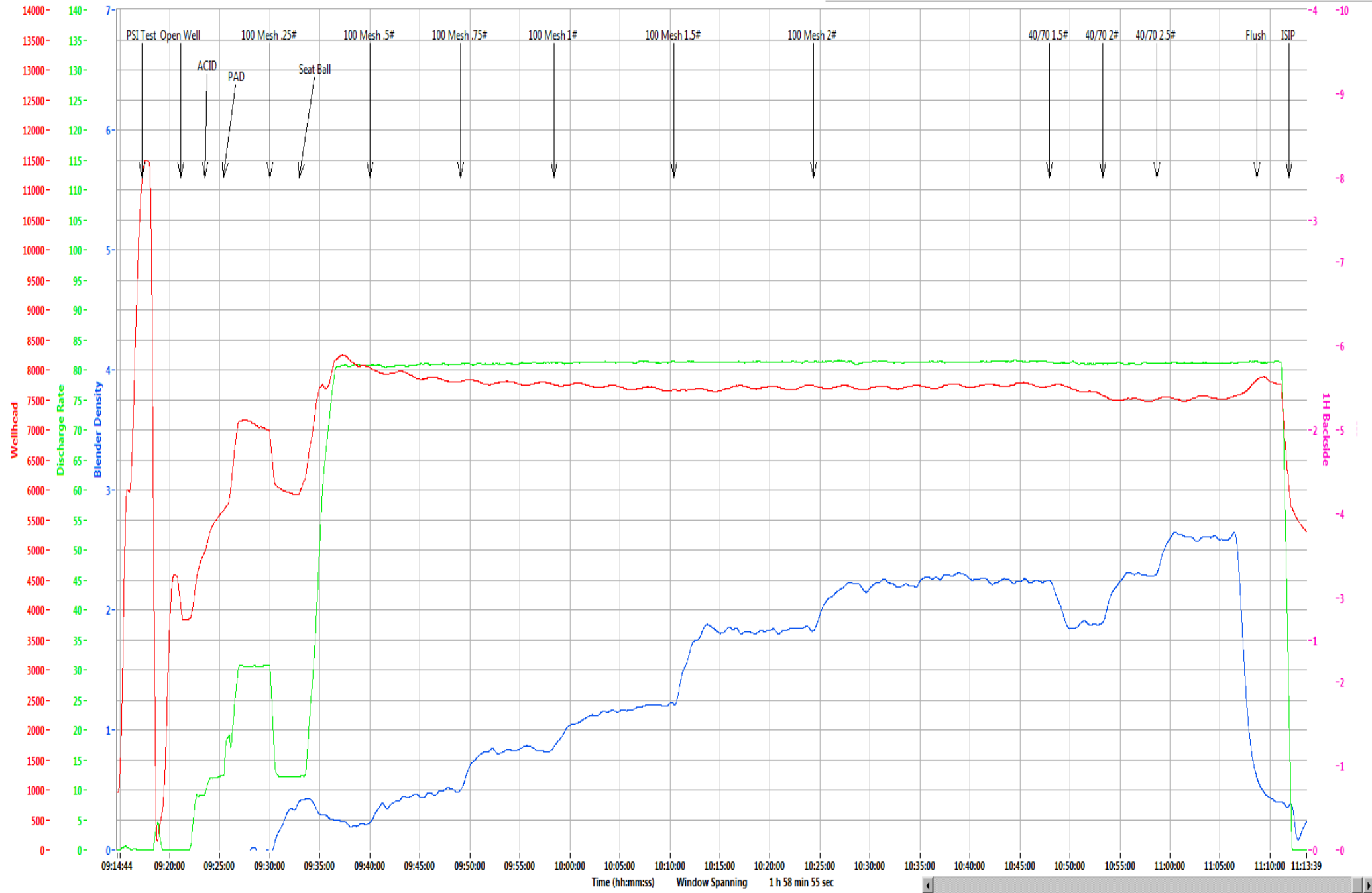
FR 9800	152
Biocide	75
Scale	16



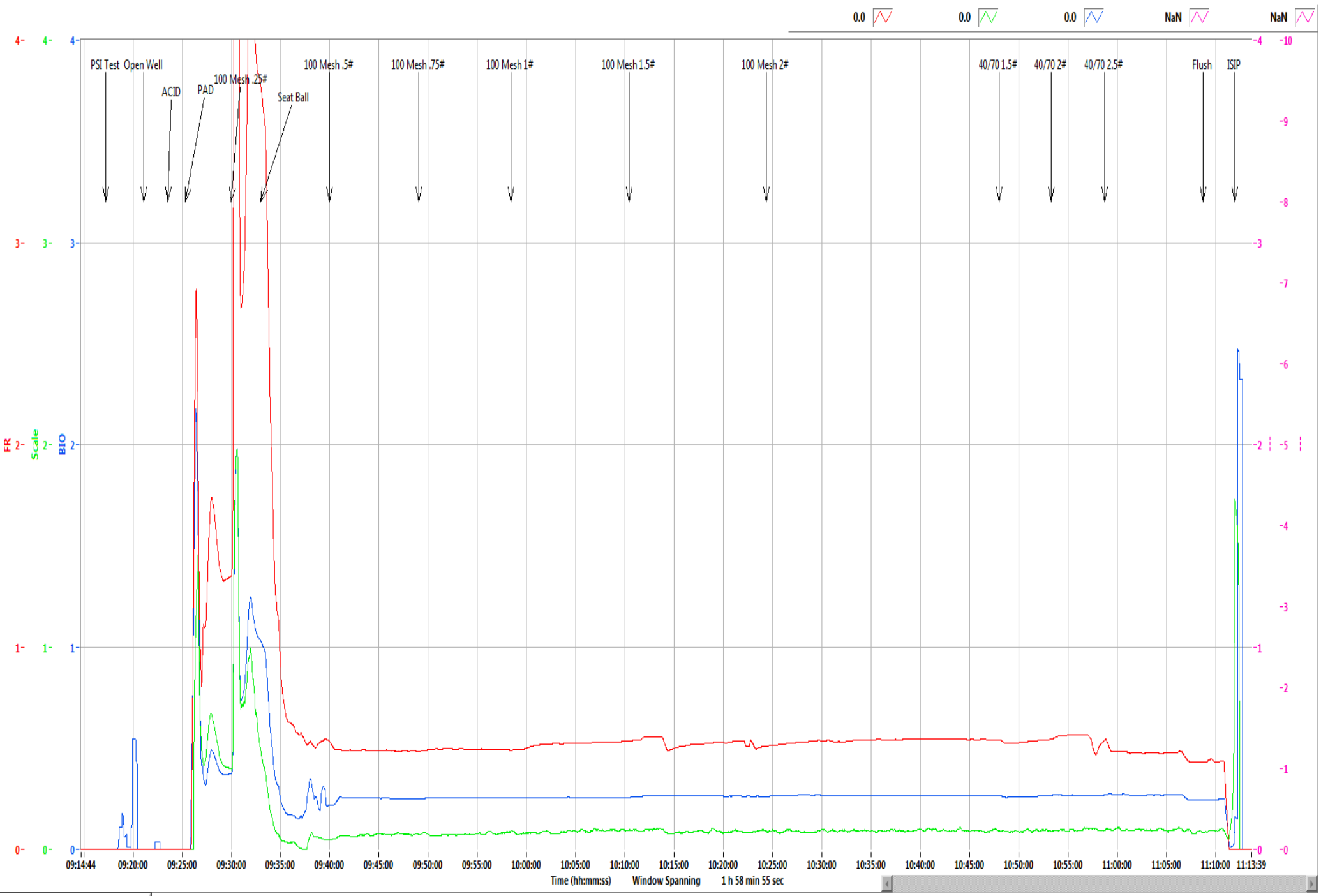
NNE
Boggess 9H
Stage 54
Producers Service Corp.

Post Stage Report
August 27, 2019

967.1 0.0 -0.4 -66.2 NaN



Refresh Graph



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

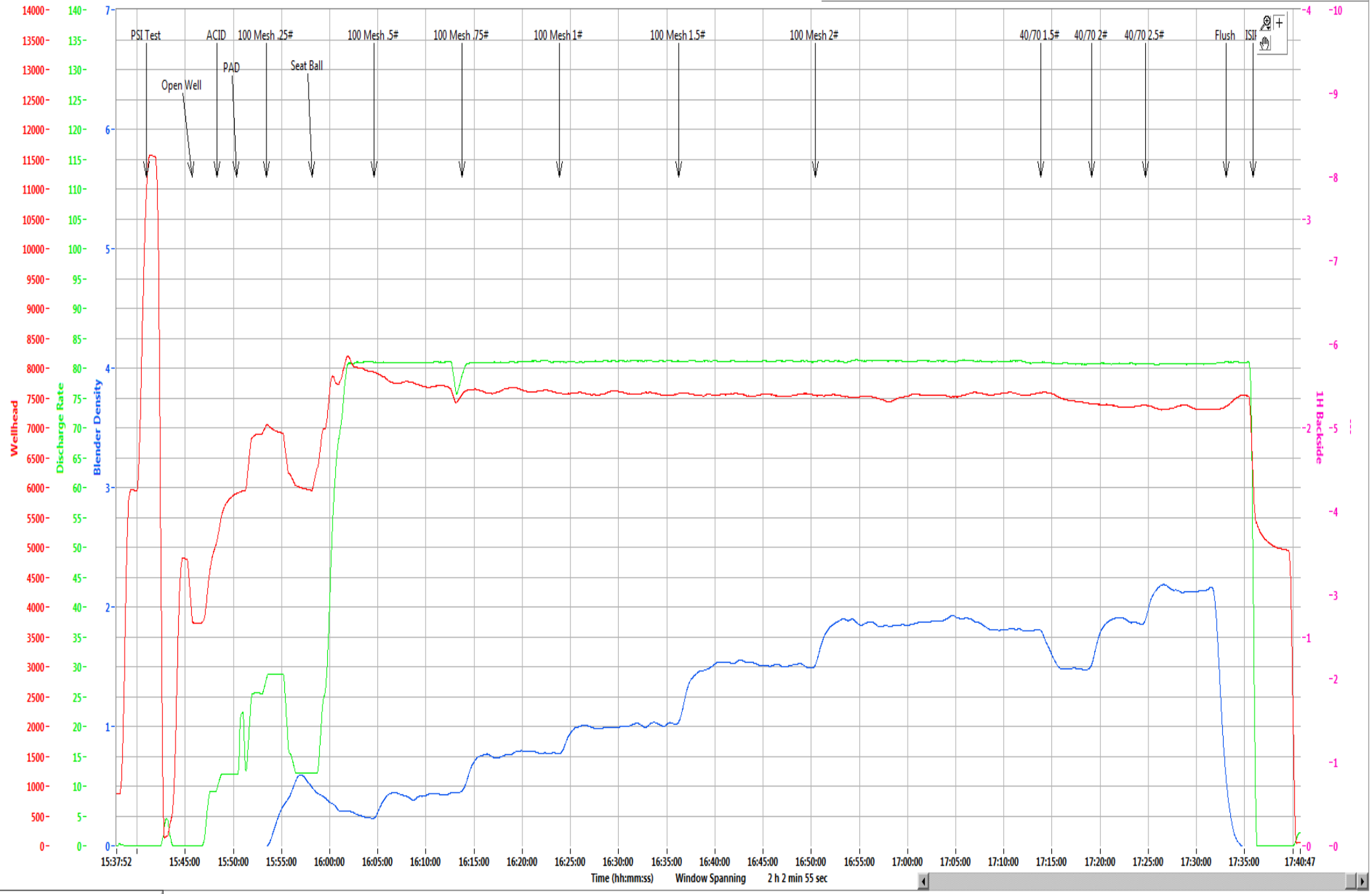
FR 9800	155
Biocide	81
Scale	21



NNE
Boggess 9H
Stage 55
Producers Service Corp.

Post Stage Report
August 27, 2019

877.3 0.0 -0.4 -47.4 NaN



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: Bogges 9H
Stage No.: 55

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	3,049.80	CWT	\$ 5.50	\$ 16,773.90
SAND 40/70	40/70 white	1,041.80	CWT	\$ 5.75	\$ 5,990.35
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	165	GAL	\$ 17.75	\$ 2,928.75
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		204.58	TON	\$ 55.00	\$ 11,251.90
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 59,744.90
25% Discount Applied \$ 14,936.23
Net Stage Total \$ 44,808.68

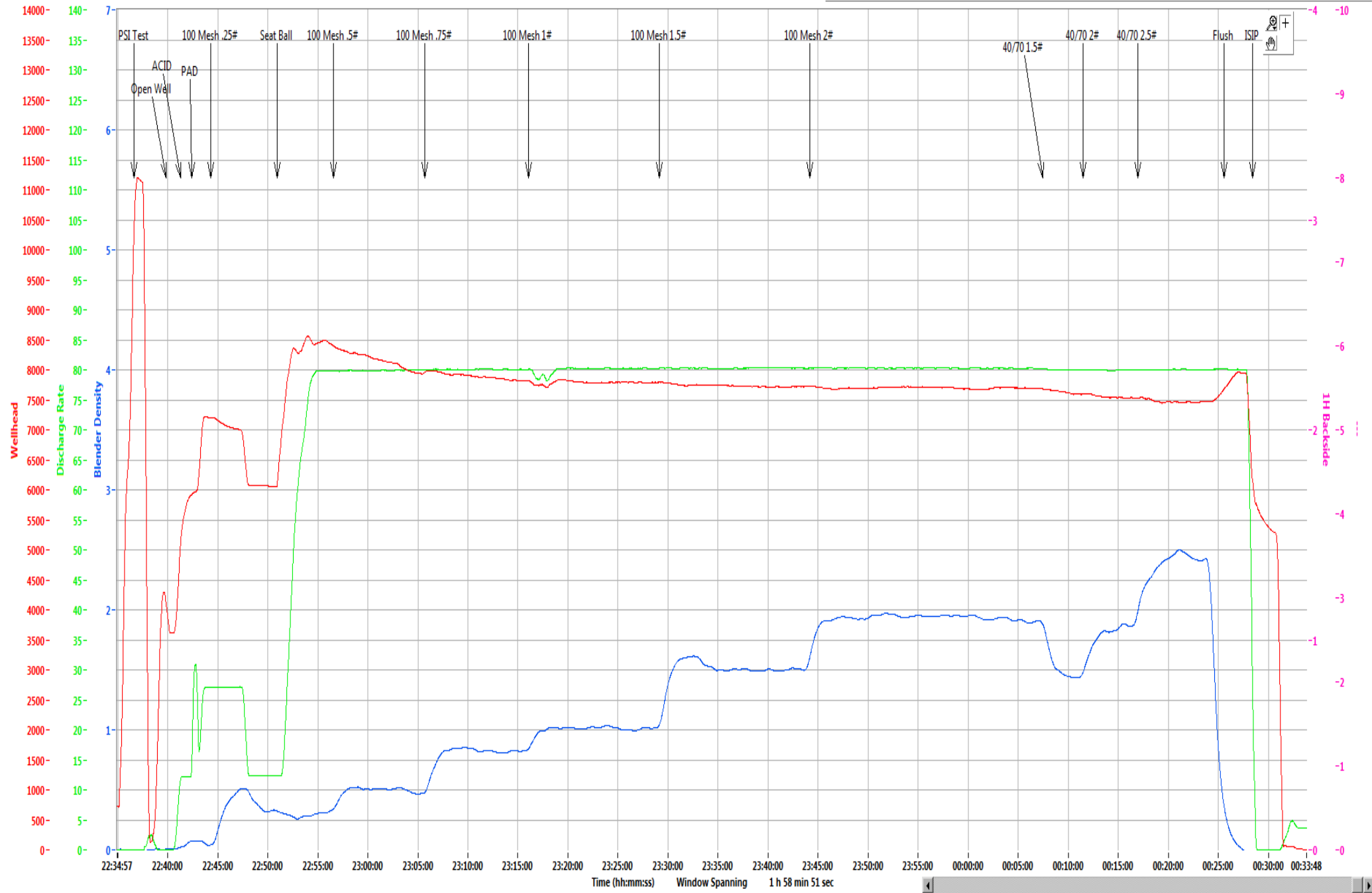
(Print Name) Rob Cowan Customer Rep: _____ Customer Signature: [Signature]



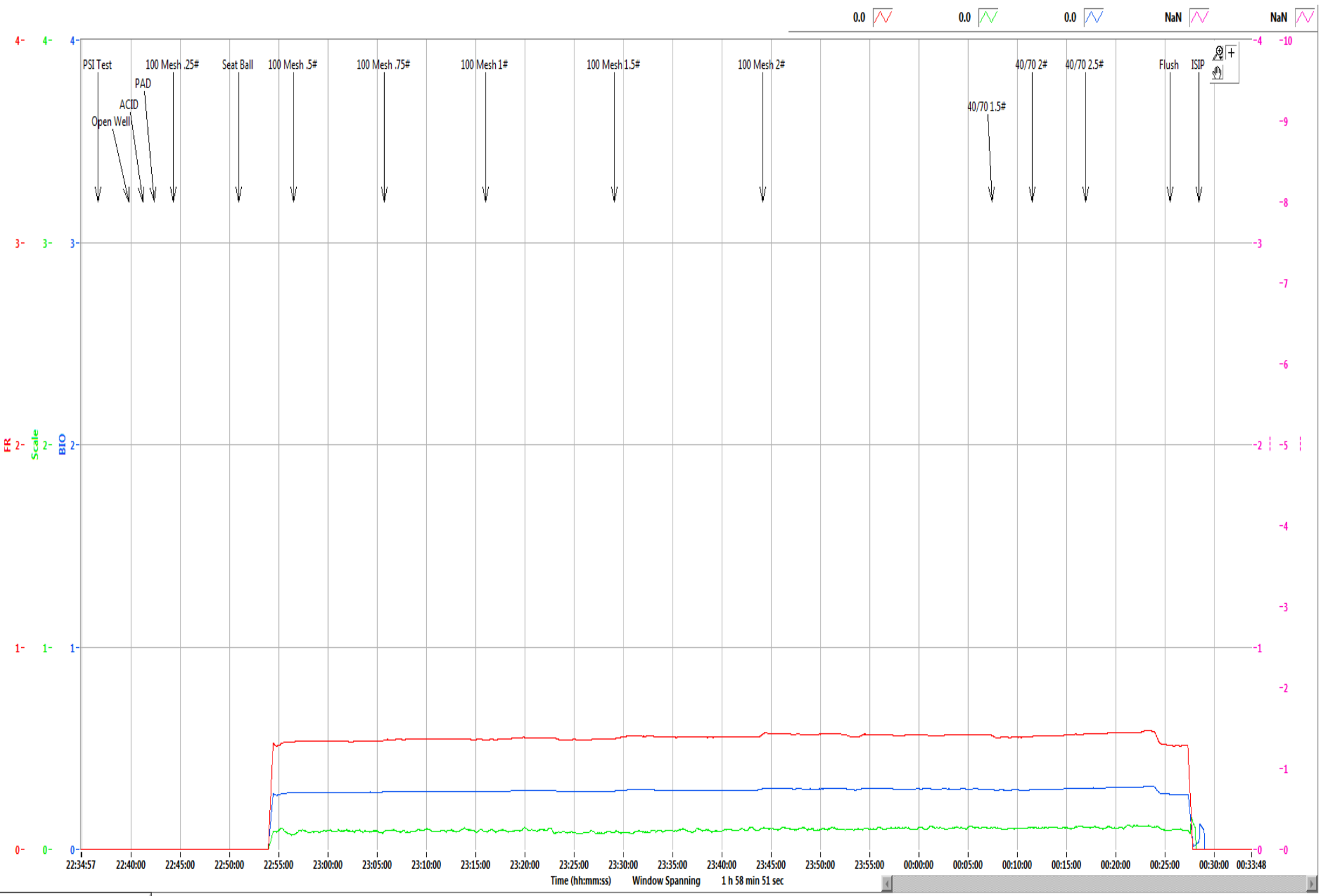
NNE
Boggess 9H
Stage 56
Producers Service Corp.

Post Stage Report
August 28, 2019

723.3 0.0 0.0 -36.9 NaN



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: Bogges 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 DENSIOMETER		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 Rep:

Rob Cowger

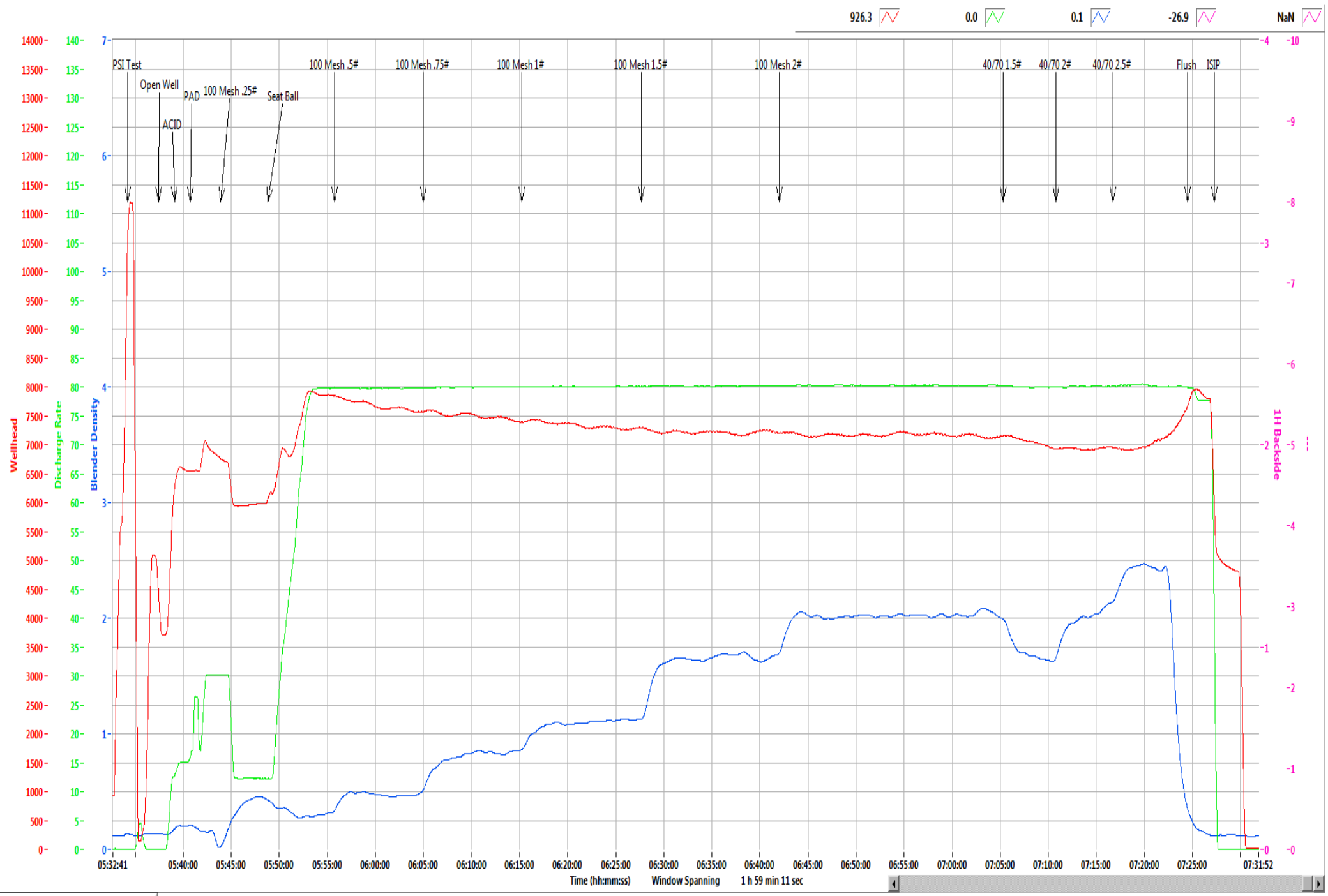
Customer Signature:

Joe Austin



NNE
Boggess 9H
Stage 57
Producers Service Corp.

Post Stage Report
August 28, 2019



Refresh Graph



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: Bogges 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 DENSIOMETER		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 Holsa

Customer Signature:

[Signature]