



POST-STIMULATION REPORT

Northeast Natural Energy, LLC

Bogges 1H (Stages 1-63)

Marcellus Shale Formation

Monongalia County, WV

Treatment Dates: 09/20/2019 – 10/12/2019

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



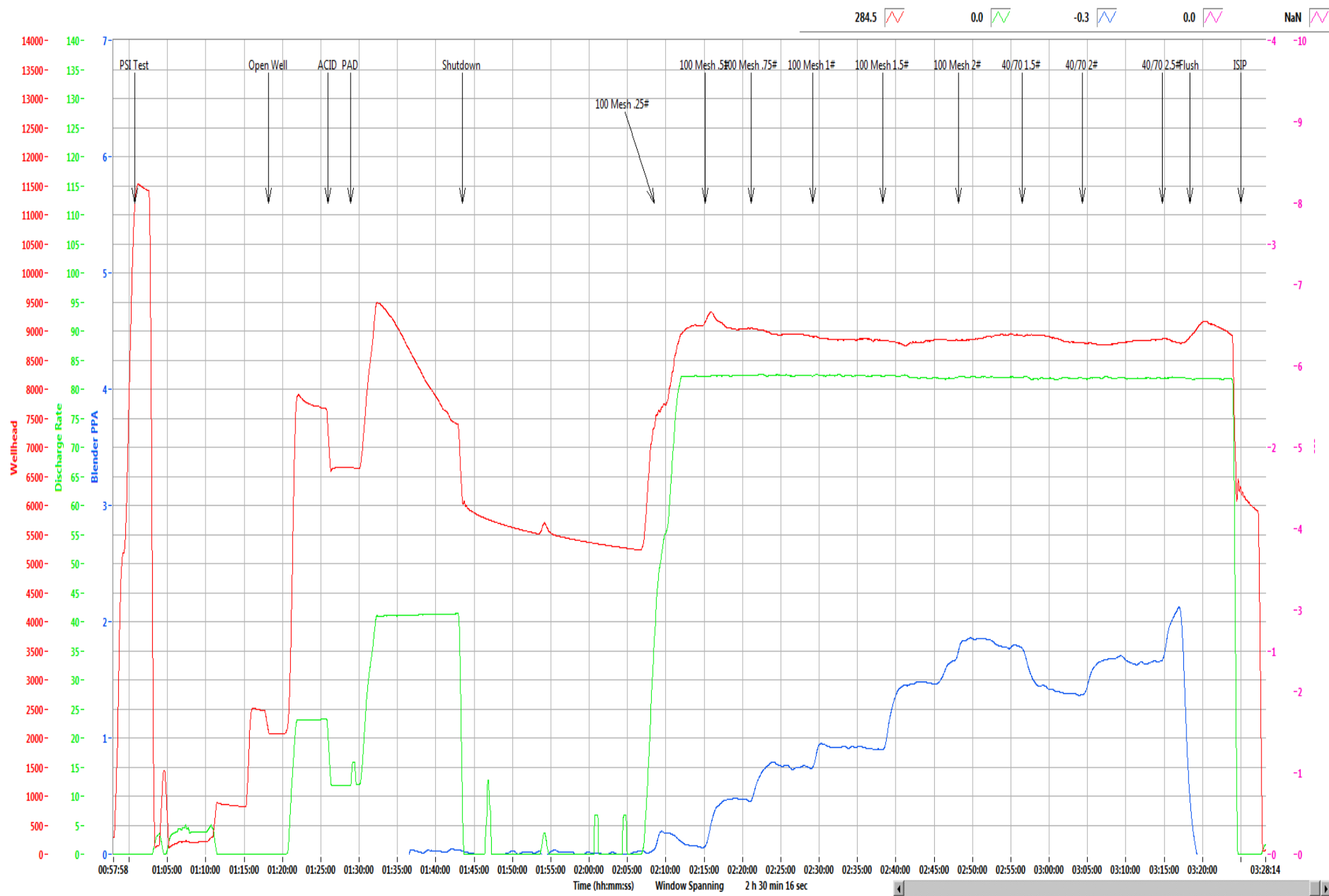
OPERATIONAL SUMMARY

PSC appreciates the opportunity to complete the stimulation of the Boggess 1H well. 63 Stages were completed from September 20th, 2019 to October 12th, 2019. Average treating pressure was 8,414 psi at an average rate of 82.9 bpm. Average pump time was 2 hour and 26 minutes. 18,714,720 lbs of 100 mesh sand and 9,663,760 lbs of 40/70 sand was placed for a total of 28,378,480 lbs which is 90% of the designed volume. 64,500 gal of 7.5% HCl was utilized during the stimulation treatment.



**NNE
Boggess 1H
Stage 1
Producers Service Corp.**

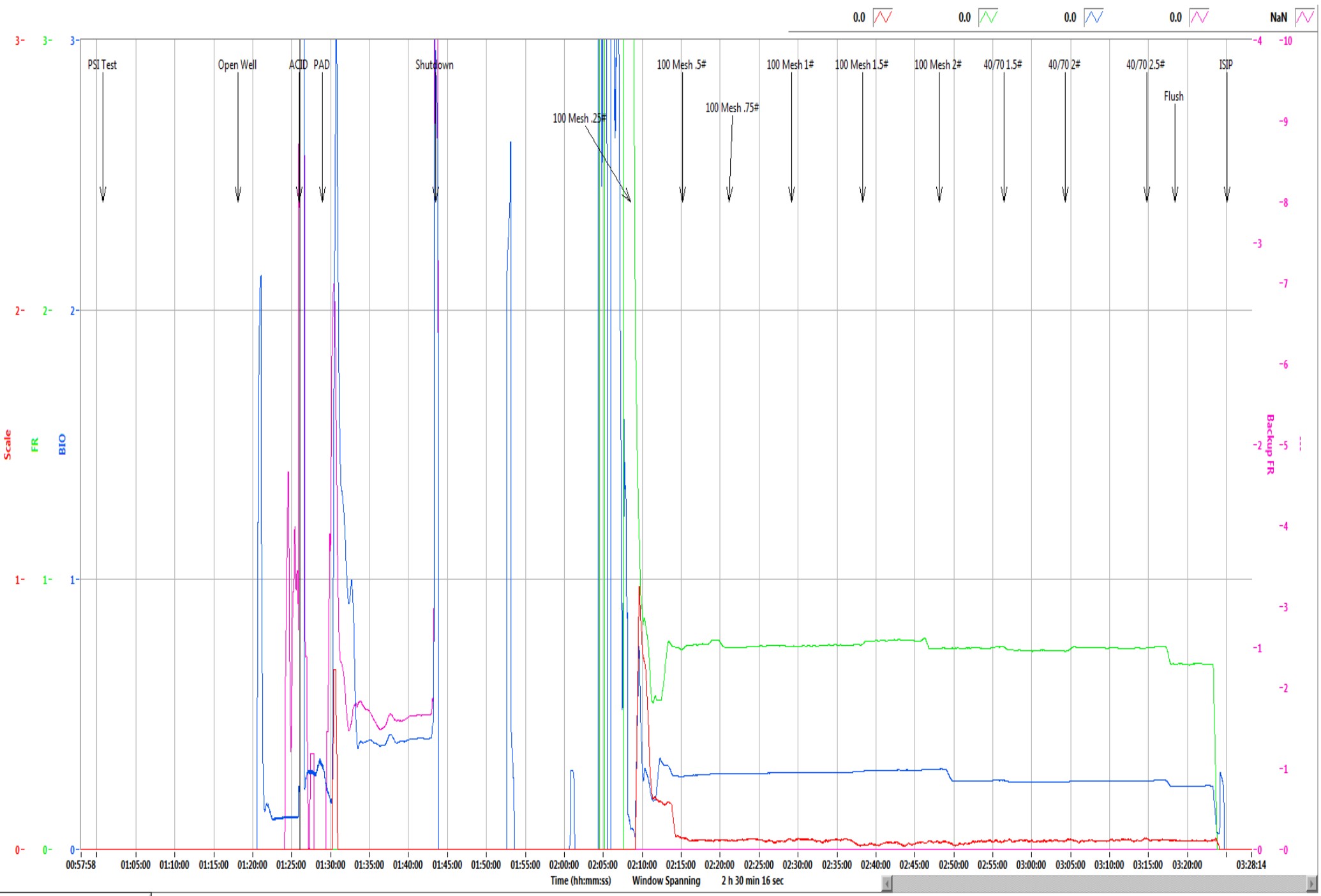
**Post Stage Report
September 20, 2019**



284.5 0.0 -0.3 0.0 NaN

Time (hh:mm:ss) Window Spanning 2 h 30 min 16 sec

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Boggess Pad 1H

Stage	1
Date:	9/20/19
OWP (psi):	2,074
Starting Time	1:18 AM
Ending Time	3:25 AM
Pump Time (hr:min)	02:07
Swap Time (hr:min)	00:00
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,897
Maximum Treating Rate (bbl/min)	83
Maximum Treating Pressure (psi)	9,499
Displacement (psi)	8,931
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,022
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)	6,543
Acid 7.5% HCL (gal)	1,500
Wireline Pump Down (bbls)	
Pad (bbls)	575
Treatment (bbls)	5,533
Displacement (bbls)	466
(Acid Included) Total (bbls)	6,579
Dirty Job Total (bbls)	6,926
100 Mesh	180,020
40/70	119,880
Total Proppant (lbs)	299,900
Total Proppant %	66.6%

CHEMICALS

FR 9800	214
DRB-LT	
Biocide	73
Scale	17

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



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

Invoice #: 23086
 Date: 9/20/2019
 Well Name: Bogges 1H
 Stage No.: 1

State: WV
 County: Monongahela
 Operator: Stetson/Tilton
 PO/AFE: 100343

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	1,800.20	CWT	\$ 5.50	\$ 9,901.10
SAND 40/70	40/70 white	1,198.80	CWT	\$ 5.75	\$ 6,893.10
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	214	GAL	\$ 17.75	\$ 3,798.50
BIOC11219A	Biocide @ 0.25 GPT	73	GAL	\$ 16.00	\$ 1,168.00
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		149.95	TON	\$ 55.00	\$ 8,247.25
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 52,059.95
 25% Discount Applied \$ 13,014.99
 Net Stage Total \$ 39,044.96

(Print Name)

Customer Rep: Rob Cowger

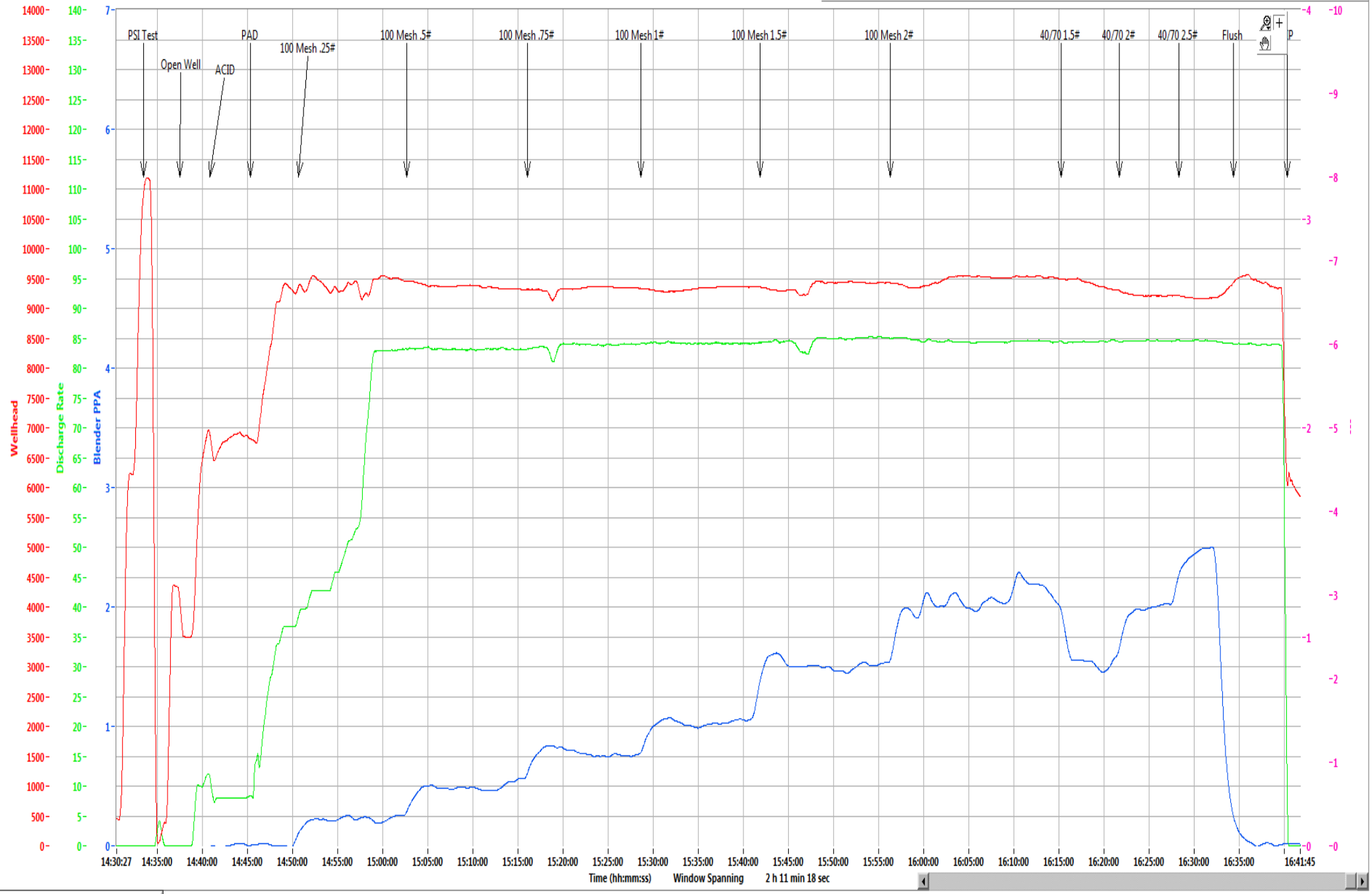
Customer Signature: Rob Cowger



NNE
Boggess 1H
Stage 2
Producers Service Corp.

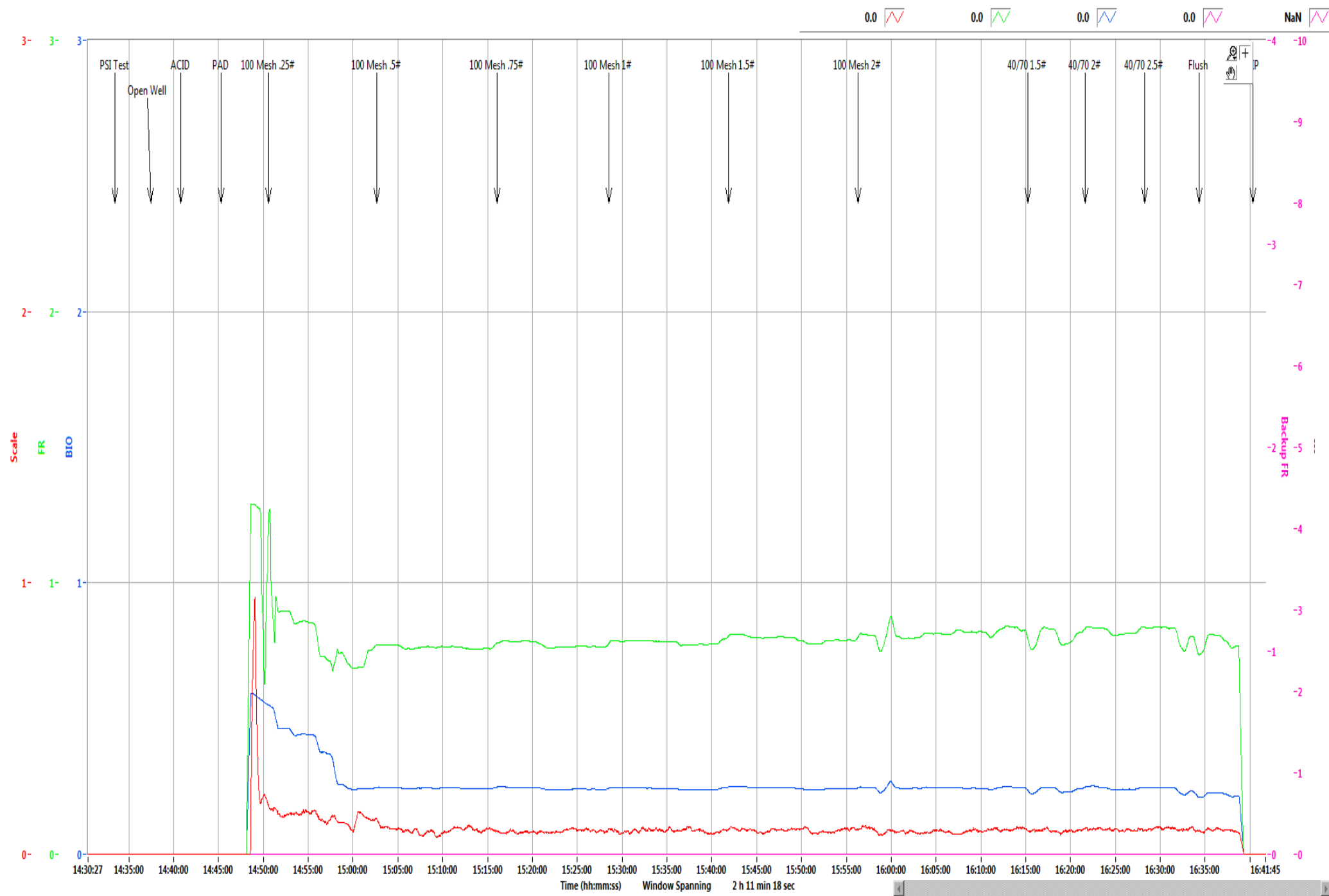
Post Stage Report
September 20, 2019

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Boggess Pad 1H

Stage	2
Date:	9/20/19
OWP (psi):	3,495
Starting Time	2:37 PM
Ending Time	4:40 PM
Pump Time (hr:min)	02:03
Swap Time (hr:min)	04:31
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	9,370
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,620
Displacement (psi)	9,448
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,957
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)	8,491
Acid 7.5% HCL (gal)	3,000
Wireline Pump Down (bbls)	598
Pad (bbls)	38
Treatment (bbls)	8,061
Displacement (bbls)	459
(Acid Included) Total (bbls)	8,562
Dirty Job Total (bbls)	9,119
100 Mesh	309,080
40/70	95,140
Total Proppant (lbs)	404,220
Total Proppant %	101.1%

CHEMICALS

FR 9800	267
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 #: 23088
 Date: 9/20/2019
 Well Name: Bogges 1H
 Stage No.: 2

State: WV
 County: Monongahela
 Operator: Eck/Dunn
 PO/AFE: 100343

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	3,090.80	CWT	\$ 5.50	\$ 16,999.40
SAND 40/70	40/70 white	951.40	CWT	\$ 5.75	\$ 5,470.55
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	267	GAL	\$ 17.75	\$ 4,739.25
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		202.11	TON	\$ 55.00	\$ 11,116.05
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 63,797.25
 25% Discount Applied \$ 15,949.31
 Net Stage Total \$ 47,847.94

(Print Name)
 Customer Rep:

E. Boone

Customer Signature:

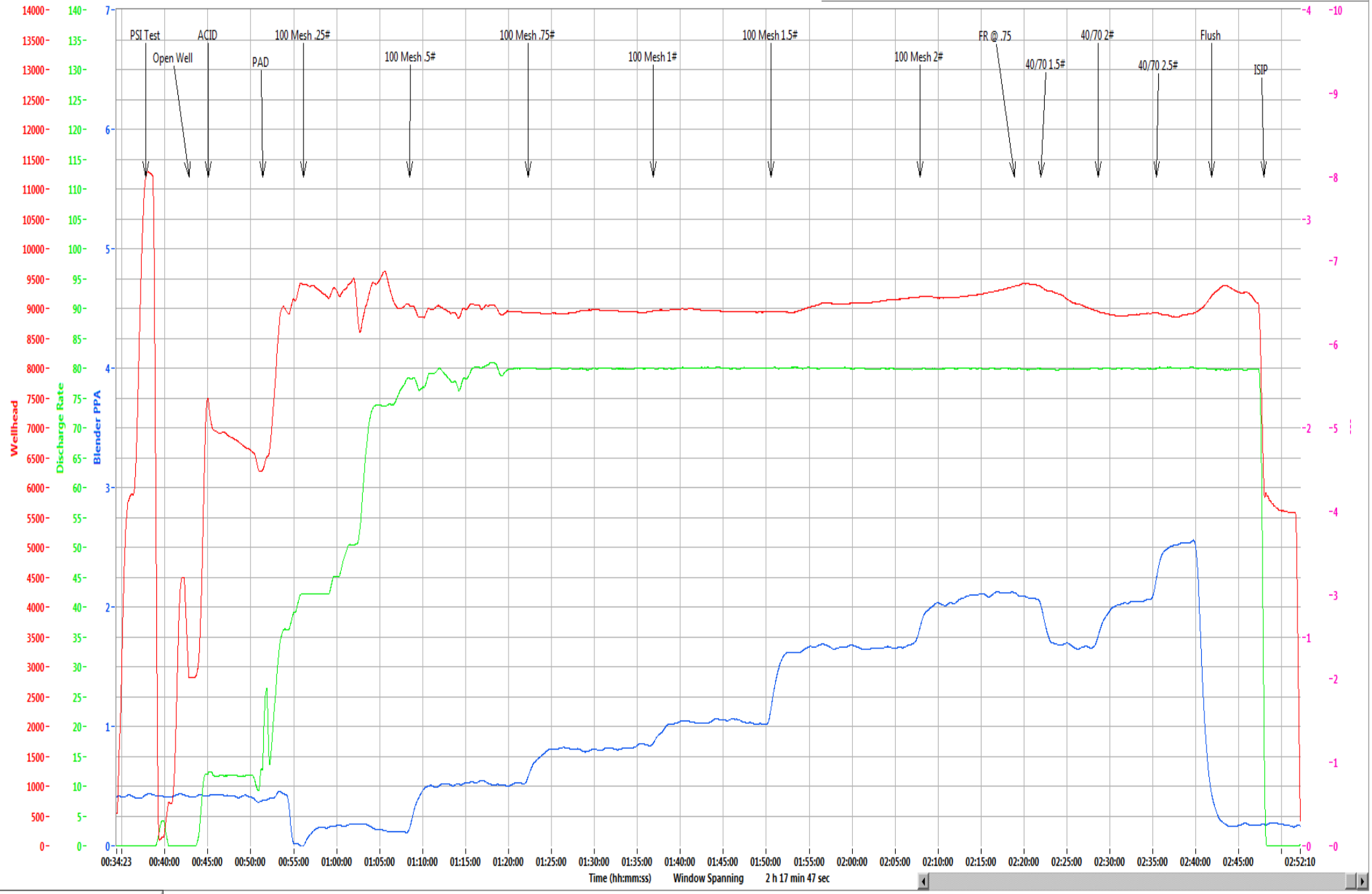
E. Boone



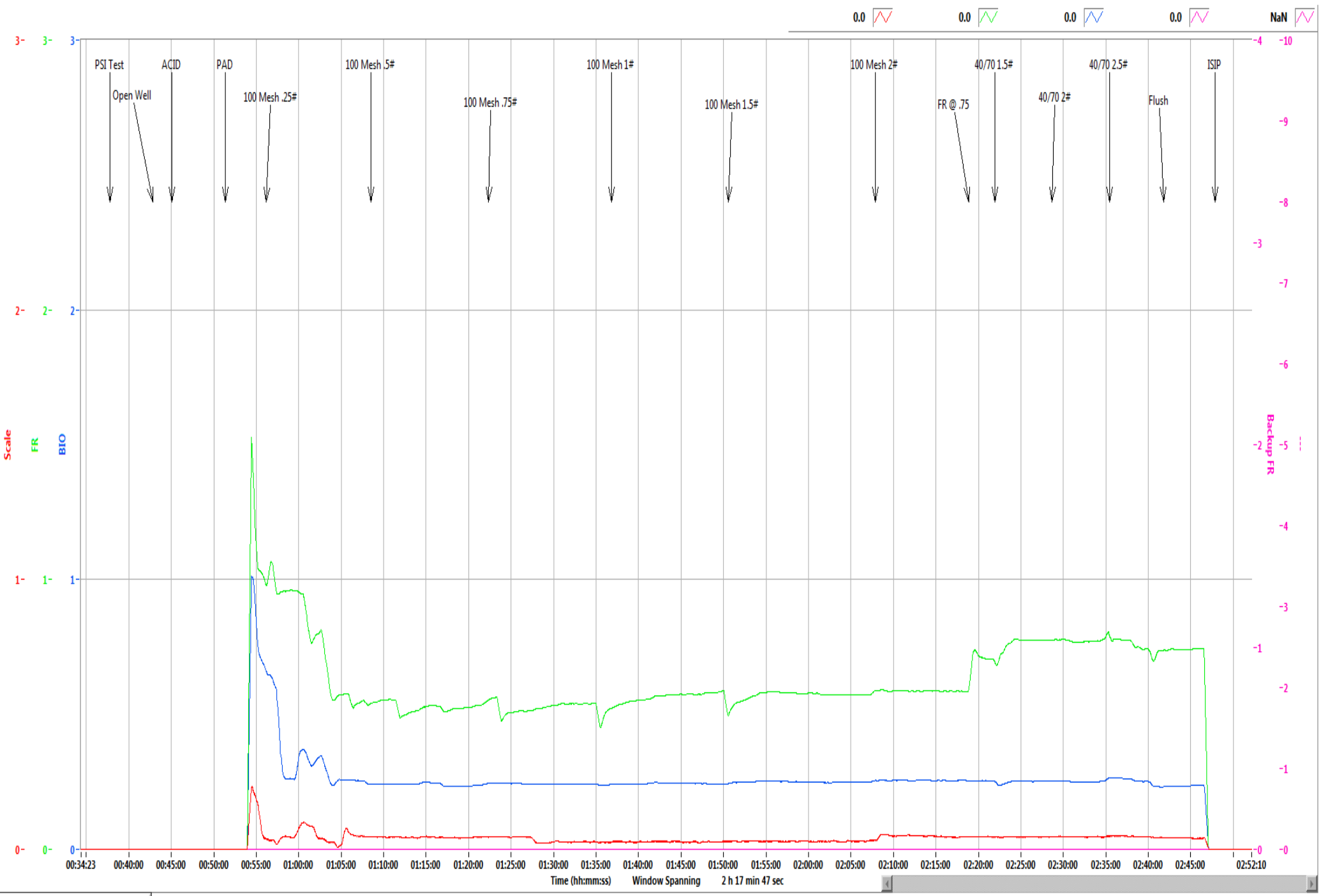
NNE
Boggess 1H
Stage 3
Producers Service Corp.

Post Stage Report
September 21, 2019

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Boggess Pad**1H**

Stage	3
Date:	9/21/19
OWP (psi):	2,791
Starting Time	12:42 AM
Ending Time	2:47 AM
Pump Time (hr:min)	02:05
Swap Time (hr:min)	02:44
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,742
Average Treating Rate (bbl/min)	79
Average Treating Pressure (psi)	9,060
Maximum Treating Rate (bbl/min)	82
Maximum Treating Pressure (psi)	9,656
Displacement (psi)	9,239
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,774
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)	8,386
Acid 7.5% HCL (gal)	3,000
Wireline Pump Down (bbls)	579
Pad (bbls)	156
Treatment (bbls)	7,843
Displacement (bbls)	457
(Acid Included) Total (bbls)	8,457
Dirty Job Total (bbls)	8,928
100 Mesh	304,040
40/70	99,900
Total Proppant (lbs)	403,940
Total Proppant %	101.0%

CHEMICALS

FR 9800	200
DRB-LT	
Biocide	90
Scale	18

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




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

Invoice #: 23090
 Date: 9/21/2019
 Well Name: Bogges 1H
 Stage No.: 3

State: WV
 County: Monongahela
 Operator: Stetson/Tilton
 PO/AFE: 100343

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	3,040.40	CWT	\$ 5.50	\$ 16,722.20
SAND 40/70	40/70 white	999.00	CWT	\$ 5.75	\$ 5,744.25
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	200	GAL	\$ 17.75	\$ 3,550.00
BIOC11219A	Biocide @ 0.25 GPT	90	GAL	\$ 16.00	\$ 1,440.00
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		201.97	TON	\$ 55.00	\$ 11,108.35
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 62,612.80
 25% Discount Applied \$ 15,653.20
 Net Stage Total \$ 46,959.60

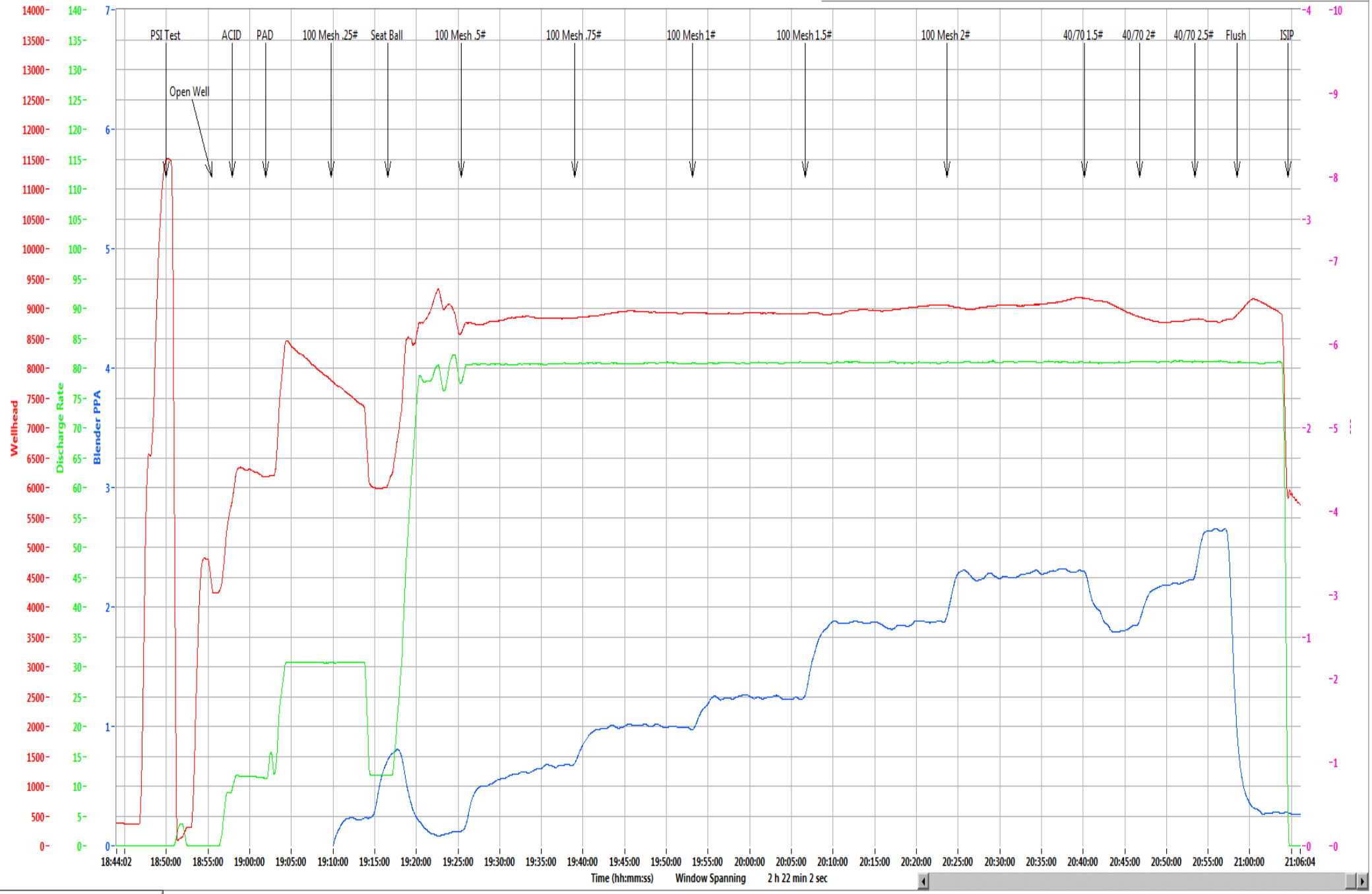
(Print Name) Customer Rep: MIKE INMAN Customer Signature: 



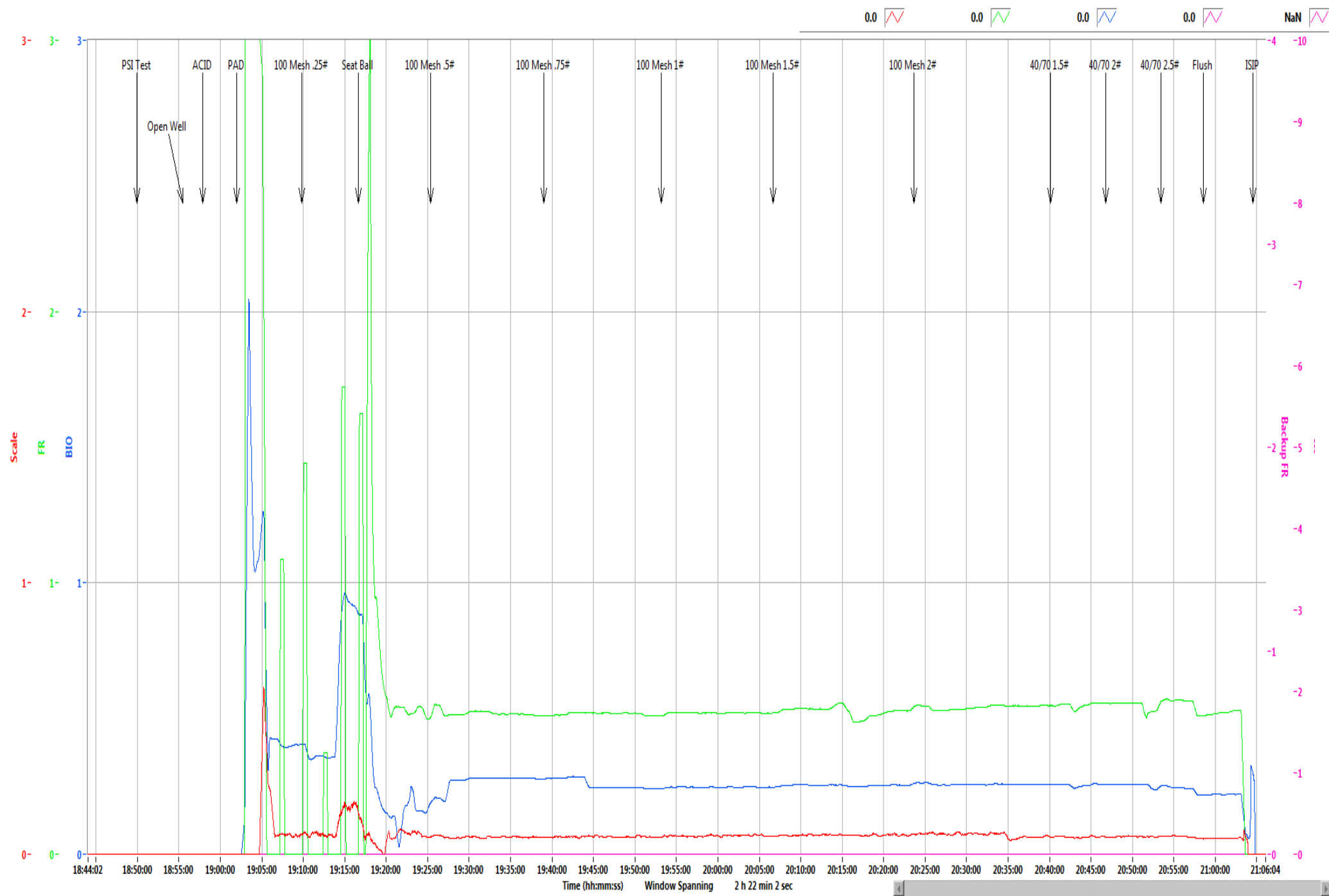
NNE
Boggess 1H
Stage 4
Producers Service Corp.

Post Stage Report
September 21, 2019

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Boggess Pad 1H

Stage	4
Date:	9/21/19
OWP (psi):	4,235
Starting Time	6:55 PM
Ending Time	9:04 PM
Pump Time (hr:min)	02:09
Swap Time (hr:min)	16:08
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,220
Average Treating Rate (bbl/min)	81
Average Treating Pressure (psi)	8,934
Maximum Treating Rate (bbl/min)	82
Maximum Treating Pressure (psi)	9,386
Displacement (psi)	8,916
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,721
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)	8,559
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	1,116
Pad (bbls)	220
Treatment (bbls)	7,932
Displacement (bbls)	451
(Acid Included) Total (bbls)	8,607
Dirty Job Total (bbls)	9,068
100 Mesh	299,800
40/70	98,940
Total Proppant (lbs)	398,740
Total Proppant %	99.7%

CHEMICALS

FR 9800	196
DRB-LT	
Biocide	95
Scale	21

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



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

Invoice #: 23091
 Date: 9/21/2019
 Well Name: Bogges 1H
 Stage No.: 4

State: WV
 County: Monongahela
 Operator: Stetson/Tilton
 PO/AFE: 100343

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	2,998.00	CWT	\$ 5.50	\$ 16,489.00
SAND 40/70	40/70 white	989.40	CWT	\$ 5.75	\$ 5,689.05
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	196	GAL	\$ 17.75	\$ 3,479.00
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
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		199.37	TON	\$ 55.00	\$ 10,965.35
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 60,918.40
 25% Discount Applied \$ 15,229.60
 Net Stage Total \$ 45,688.80

(Print Name) Milke Inman Customer Rep: _____ Customer Signature: [Signature]



NNE
Boggess 1H
Stage 5
Producers Service Corp.

Post Stage Report
September 22, 2019



Refresh Graph

Boggess Pad 1H

Stage	5
Date:	9/22/19
OWP (psi):	4,427
Starting Time	12:41 AM
Ending Time	2:54 AM
Pump Time (hr:min)	02:13
Swap Time (hr:min)	03:37
Starting # Pumps	16
Finishing # Pumps	14
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,184
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,880
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	10,072
Displacement (psi)	9,115
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,869
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)	8,816
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	553
Pad (bbls)	244
Treatment (bbls)	8,147
Displacement (bbls)	444
(Acid Included) Total (bbls)	8,840
Dirty Job Total (bbls)	9,321
100 Mesh	304,000
40/70	99,420
Total Proppant (lbs)	403,420
Total Proppant %	100.9%

CHEMICALS

FR 9800	197
DRB-LT	
Biocide	96
Scale	20

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



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

Invoice #: 23092
 Date: 9/22/2019
 Well Name: Boggess 1H
 Stage No.: 5

State: WV
 County: Monongahela
 Operator: Stetson/Tilton
 PO/AFE: 100343

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	3,040.00	CWT	\$ 5.50	\$ 16,720.00
SAND 40/70	40/70 white	994.20	CWT	\$ 5.75	\$ 5,716.65
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	197	GAL	\$ 17.75	\$ 3,496.75
BIOC11219A	Biocide @ 0.25 GPT	96	GAL	\$ 16.00	\$ 1,536.00
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		201.71	TON	\$ 55.00	\$ 11,094.05
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

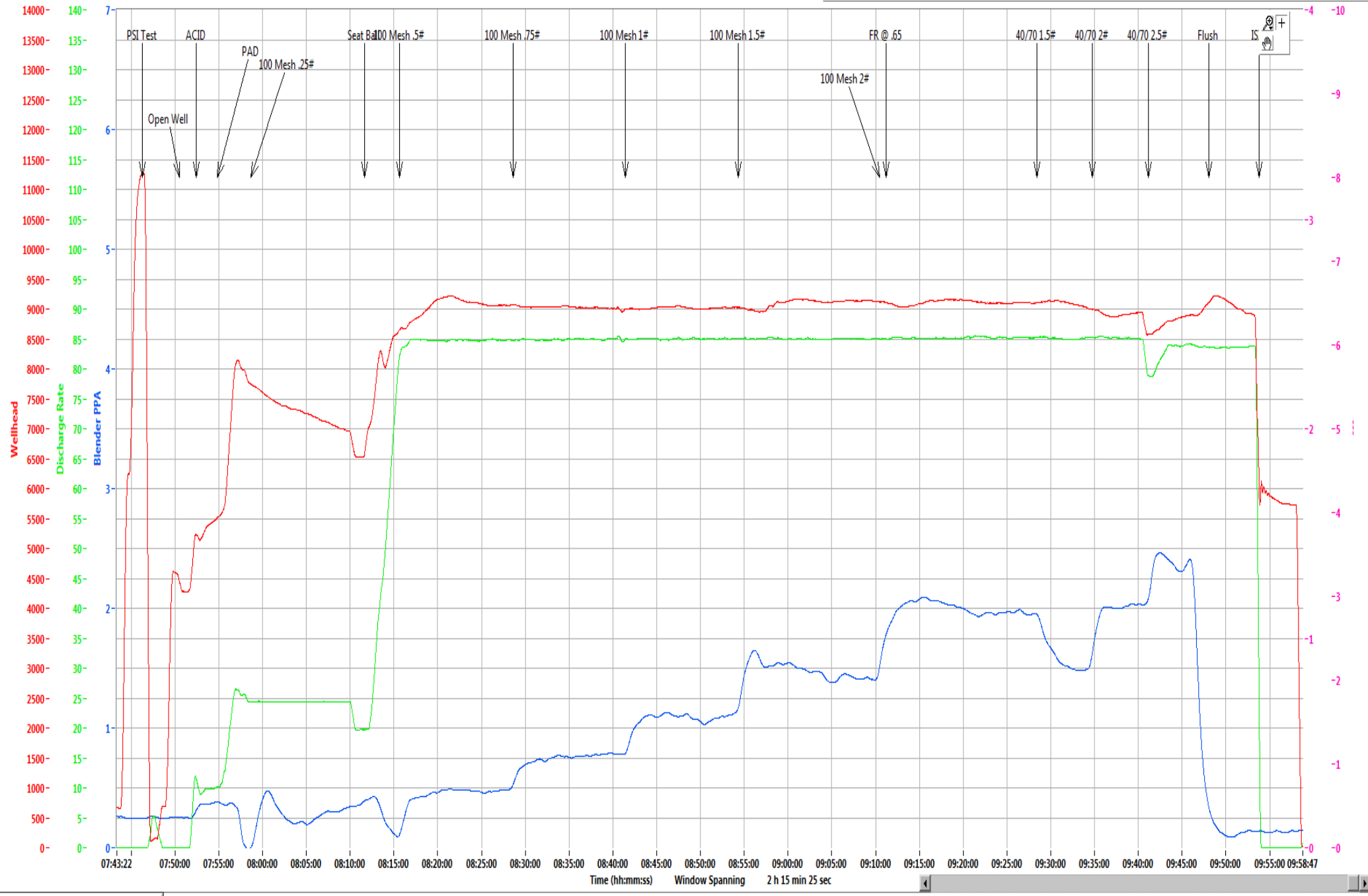
Total No Discount \$ 60,003.45
 25% Discount Applied \$ 15,000.86
 Net Stage Total \$ 45,002.59

(Print Name) Customer Rep: Mike Inman Customer Signature: [Signature]

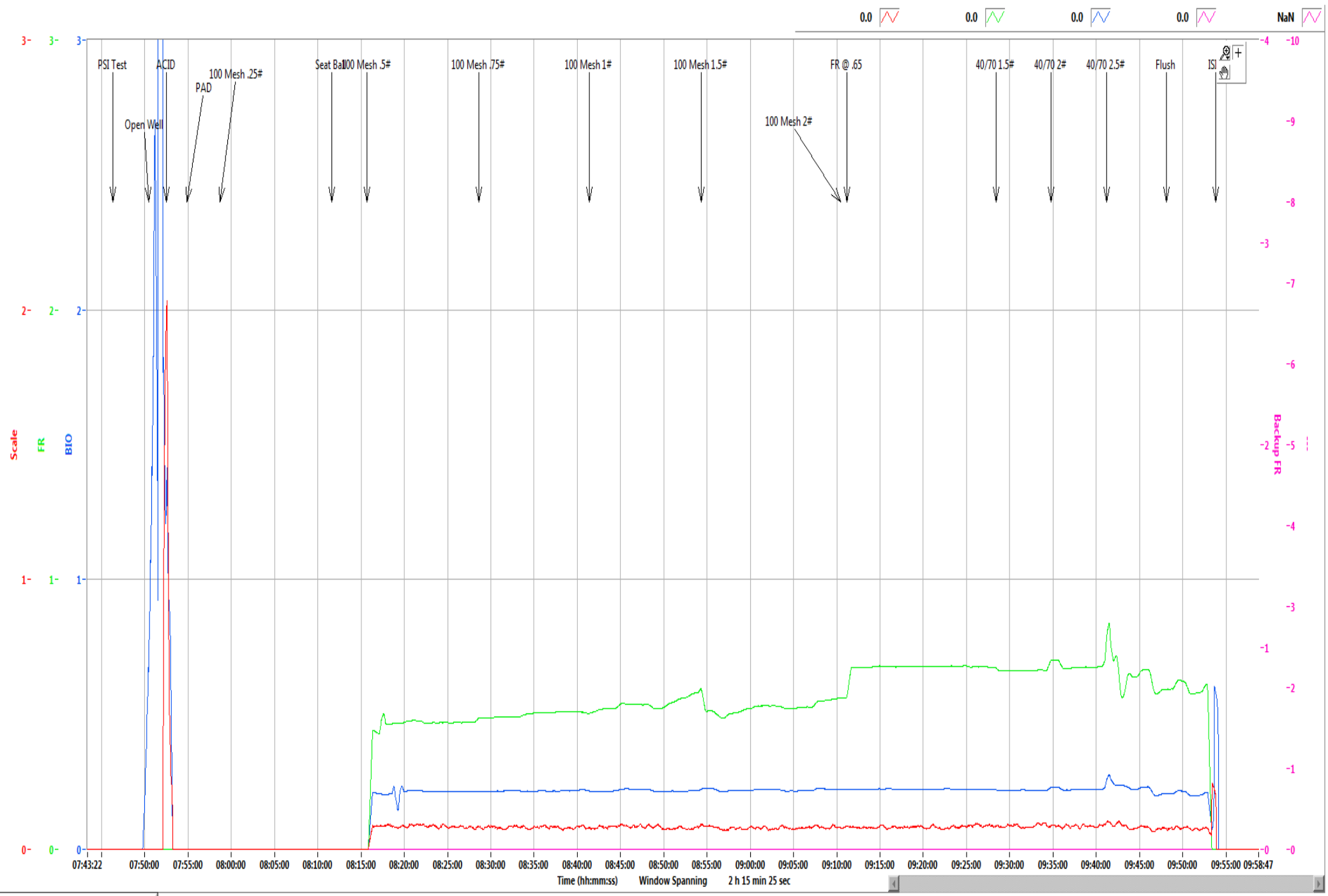


NNE
Boggess 1H
Stage 6
Producers Service Corp.

Post Stage Report
September 22, 2019



Refresh Graph



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Boggess Pad 1H

Stage	6
Date:	9/22/19
OWP (psi):	4,272
Starting Time	7:50 AM
Ending Time	9:53 AM
Pump Time (hr:min)	02:03
Swap Time (hr:min)	04:56
Starting # Pumps	16
Finishing # Pumps	14
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,073
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	9,039
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,261
Displacement (psi)	9,156
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,319
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)	8,439
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	553
Pad (bbls)	82
Treatment (bbls)	7,953
Displacement (bbls)	447
(Acid Included) Total (bbls)	8,487
Dirty Job Total (bbls)	8,960
100 Mesh	300,280
40/70	99,240
Total Proppant (lbs)	399,520
Total Proppant %	99.9%

CHEMICALS

FR 9800	198
Biocide	90
Scale	18

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



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

Invoice #: 23093
 Date: 9/22/2019
 Well Name: Boggess 1H
 Stage No.: 6

State: WV
 County: Monongahela
 Operator: Eck/Dunny
 PO/AFE: 100343

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	3,002.80	CWT	\$ 5.50	\$ 16,515.40
SAND 40/70	40/70 white	992.40	CWT	\$ 5.75	\$ 5,706.30
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	198	GAL	\$ 17.75	\$ 3,514.50
BIOC11219A	Biocide @ 0.25 GPT	90	GAL	\$ 16.00	\$ 1,440.00
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		199.76	TON	\$ 55.00	\$ 10,986.80
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 60,891.00
 25% Discount Applied \$ 15,222.75
 Net Stage Total \$ 45,668.25

(Print Name)
 Customer Rep:

E. Boone

Customer Signature:

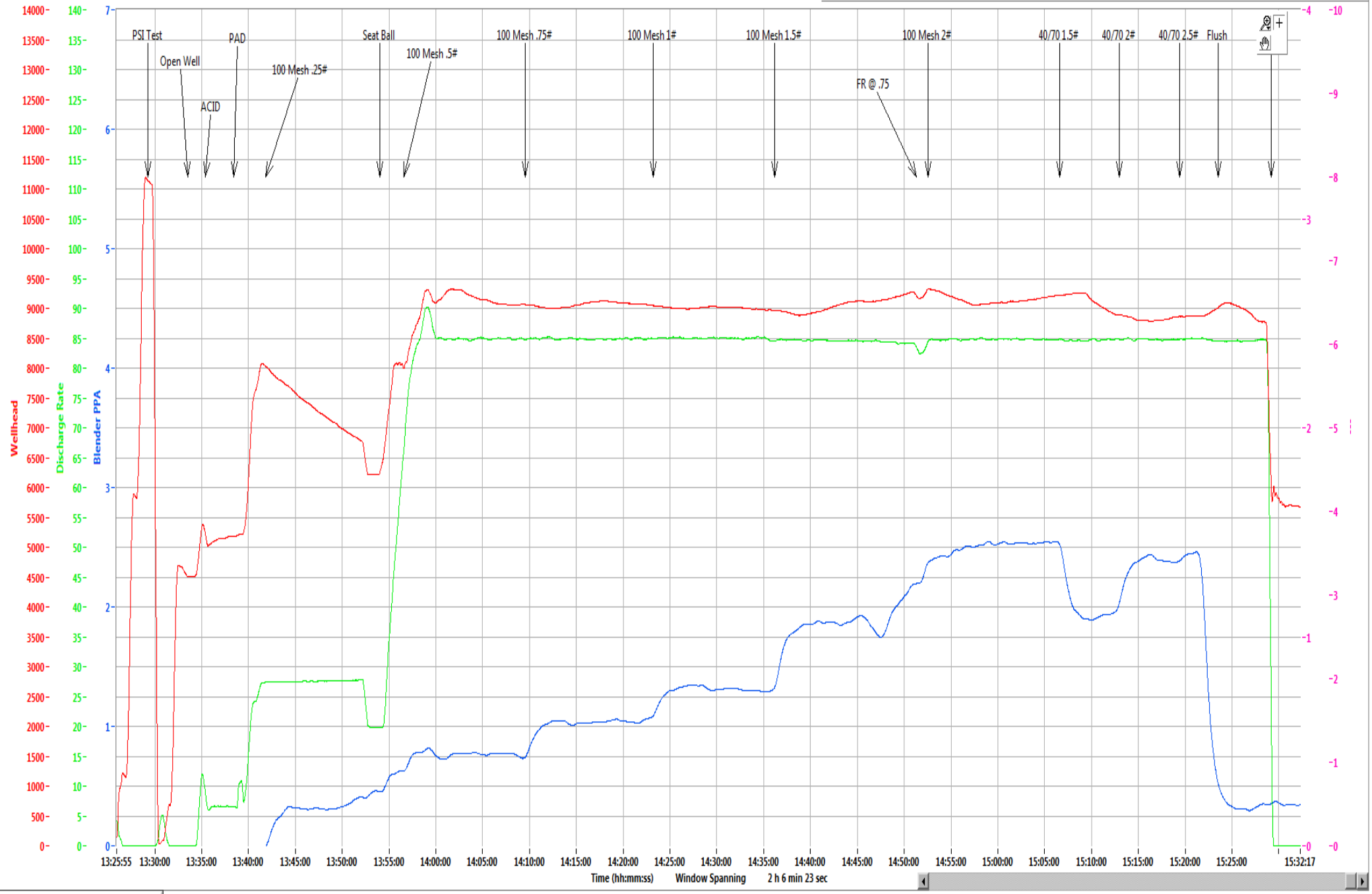
E. Boone



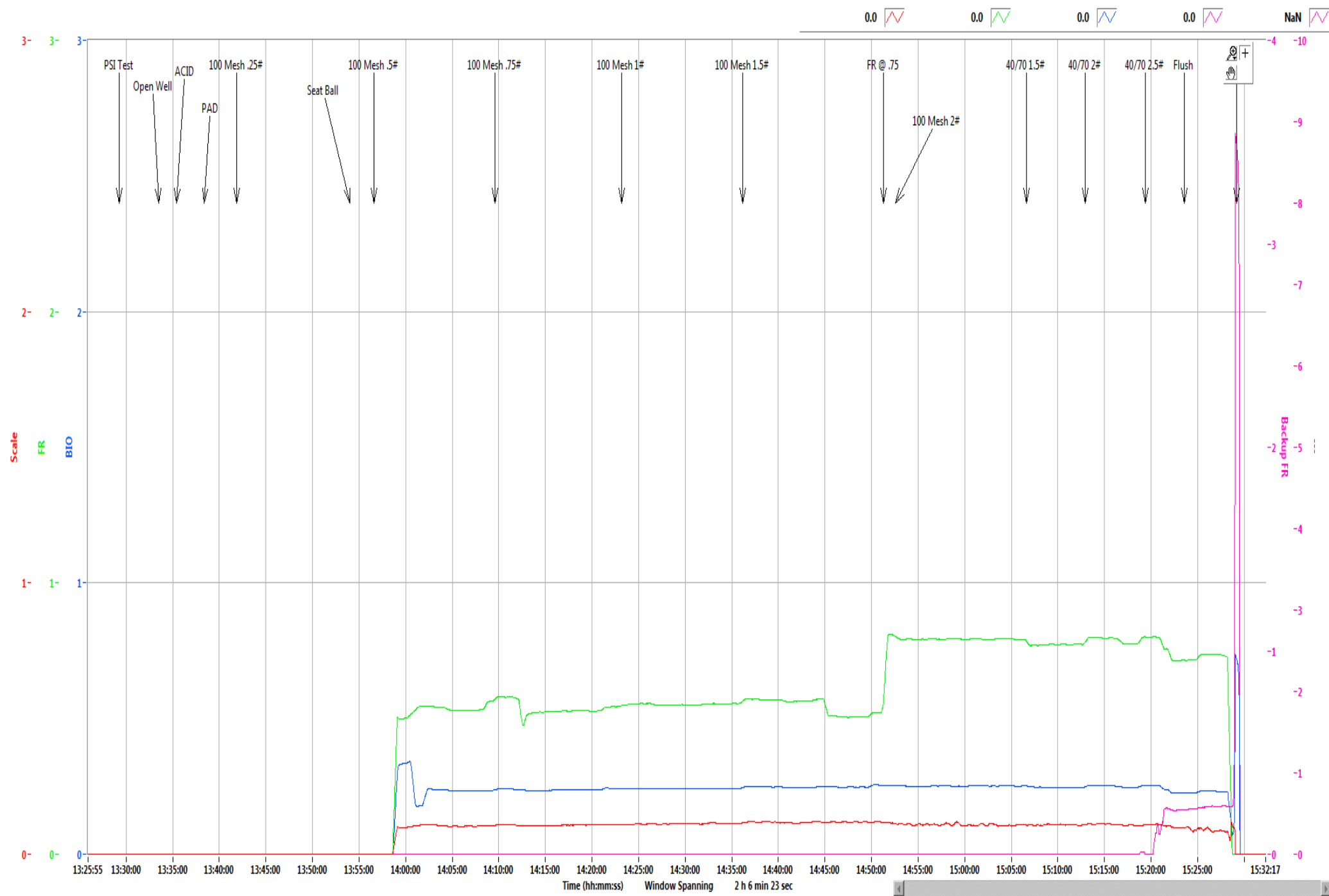
NNE
Boggess 1H
Stage 7
Producers Service Corp.

Post Stage Report
September 22, 2019

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Boggess Pad 1H

Stage	7
Date:	9/22/19
OWP (psi):	4,512
Starting Time	1:33 PM
Ending Time	3:29 PM
Pump Time (hr:min)	01:56
Swap Time (hr:min)	03:40
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,579
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	9,059
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,382
Displacement (psi)	9,037
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,589
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)	7,883
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	496
Pad (bbls)	59
Treatment (bbls)	7,426
Displacement (bbls)	440
(Acid Included) Total (bbls)	7,931
Dirty Job Total (bbls)	8,379
100 Mesh	300,780
40/70	101,340
Total Proppant (lbs)	402,120
Total Proppant %	100.5%

CHEMICALS

FR 9800	198
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 #: 23094
 Date: 9/22/2019
 Well Name: Bogges 1H
 Stage No.: 7

State: WV
 County: Monongahela
 Operator: Eck/Dunny
 PO/AFE: 100343

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	3,007.80	CWT	\$ 5.50	\$ 16,542.90
SAND 40/70	40/70 white	1,013.40	CWT	\$ 5.75	\$ 5,827.05
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	198	GAL	\$ 17.75	\$ 3,514.50
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		201.06	TON	\$ 55.00	\$ 11,058.30
DIESEL FUEL	Not eligible for discount	295	GAL	\$ 3.04	\$ 896.80

Total No Discount \$ 61,014.75
 25% Discount Applied \$ 15,253.69
 Net Stage Total \$ 46,657.86

(Print Name)
 Customer Rep:

E. Boone

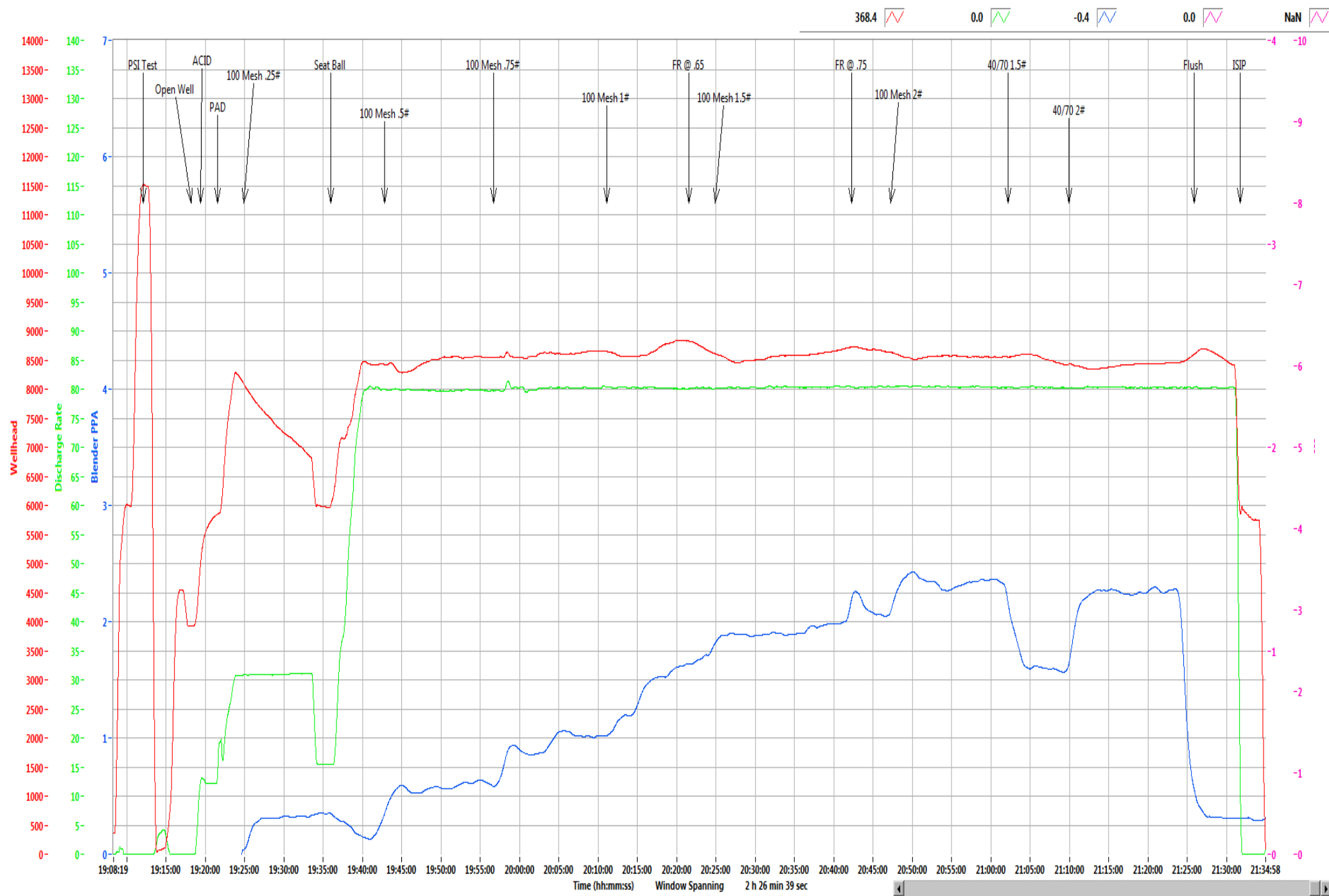
Customer Signature:

E. Boone

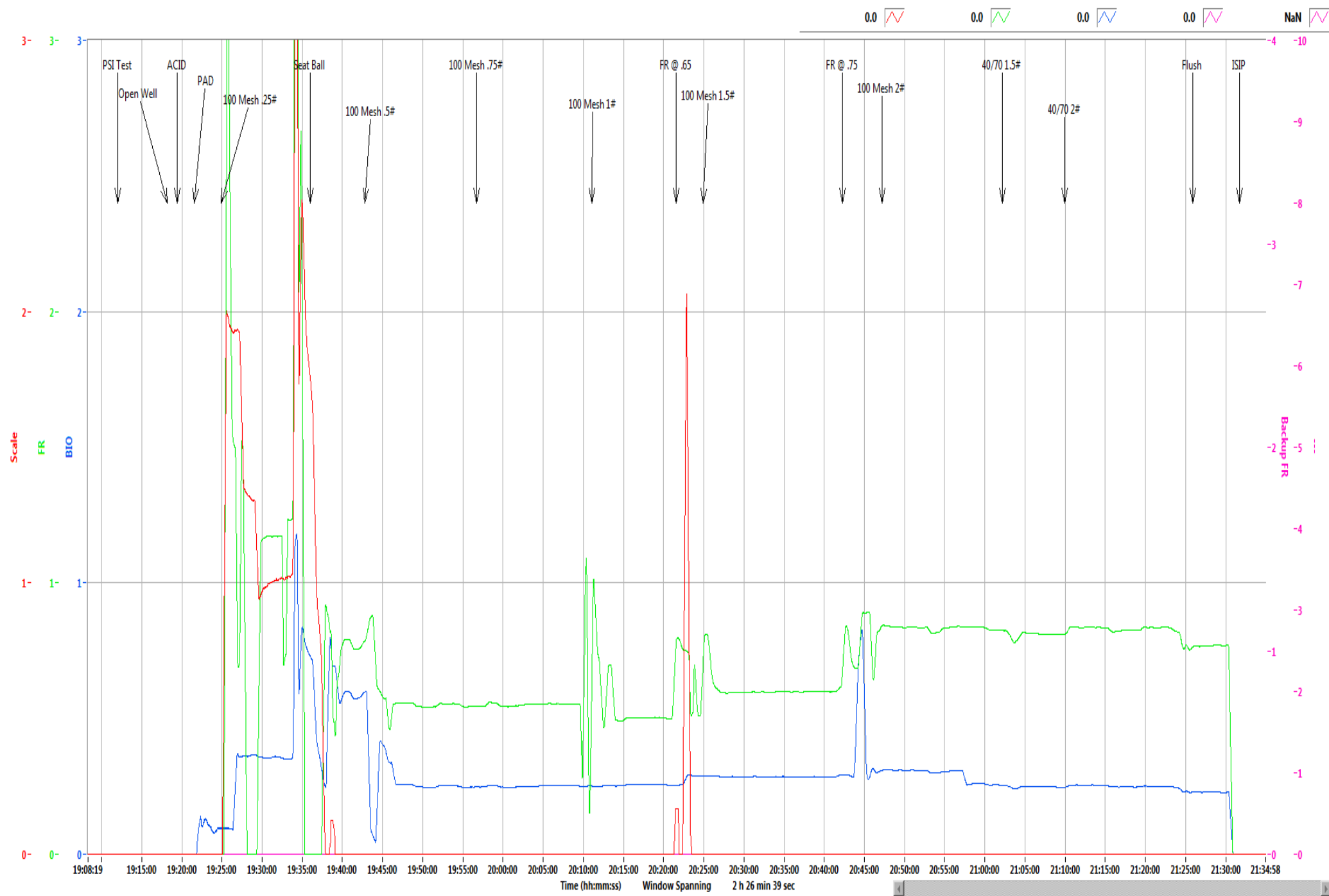


NNE
Boggess 1H
Stage 8
Producers Service Corp.

Post Stage Report
September 22, 2019



Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	8
Date:	9/22/19
OWP (psi):	3,920
Starting Time	7:18 PM
Ending Time	9:31 PM
Pump Time (hr:min)	02:13
Swap Time (hr:min)	03:49
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,277
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,555
Maximum Treating Rate (bbl/min)	83
Maximum Treating Pressure (psi)	8,882
Displacement (psi)	8,602
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,869
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)	9,051
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	505
Pad (bbls)	88
Treatment (bbls)	8,551
Displacement (bbls)	435
(Acid Included) Total (bbls)	9,075
Dirty Job Total (bbls)	9,623
100 Mesh	299,140
40/70	100,300
Total Proppant (lbs)	399,440
Total Proppant %	99.9%

CHEMICALS

FR 9800	238
Biocide	95
Scale	19

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



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

Invoice #: 23095
 Date: 9/22/2019
 Well Name: Bogges 1H
 Stage No.: 8

State: WV
 County: Monongahela
 Operator: Stetson/Tilton
 PO/AFE: 100343

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	1000	GAL	\$ 1.25	\$ 1,250.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	2	GAL	\$ 35.00	\$ 70.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,991.40	CWT	\$ 5.50	\$ 16,452.70
SAND 40/70	40/70 white	1,003.00	CWT	\$ 5.75	\$ 5,767.25
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	238	GAL	\$ 17.75	\$ 4,224.50
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
SCAL16846A	Scale Control @ 0.05 GPT	19	GAL	\$ 16.00	\$ 304.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE 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	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 60,373.05
 25% Discount Applied \$ 15,093.26
 Net Stage Total \$ 45,279.79

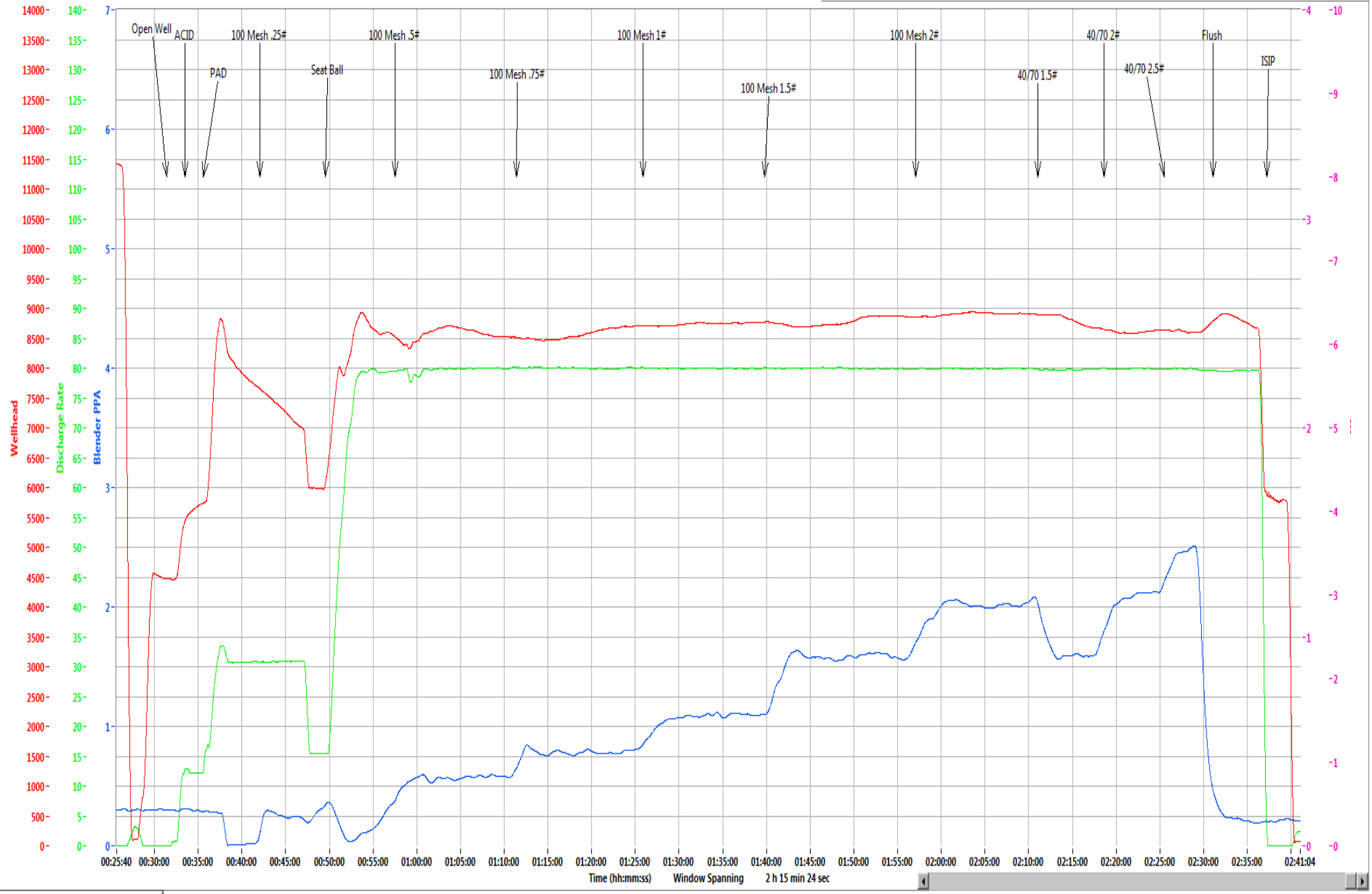
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 Customer Rep: Mike Finner Customer Signature: 



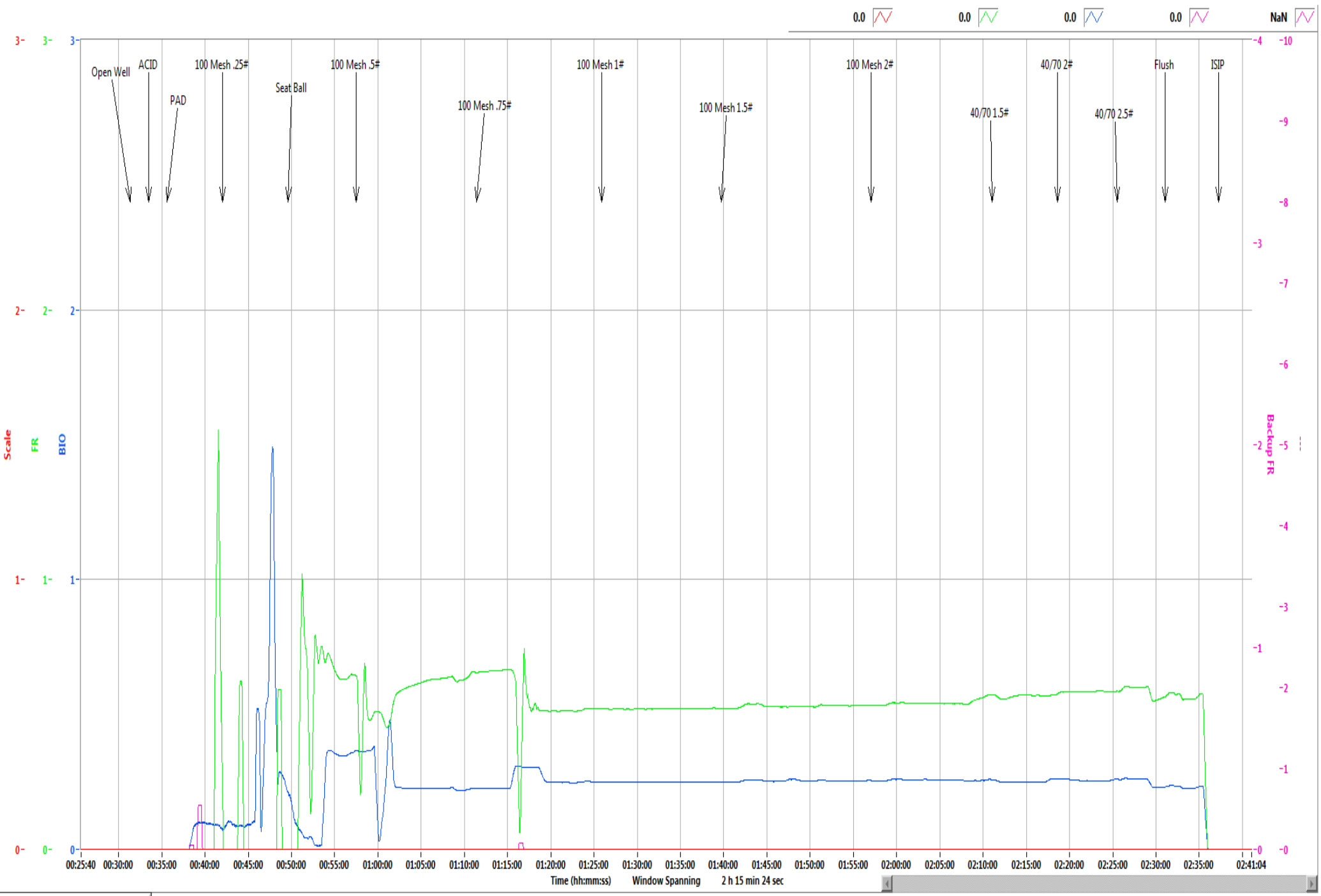
NNE
Boggess 1H
Stage 9
Producers Service Corp.

Post Stage Report
September 23, 2019

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Boggess Pad 1H

Stage	9
Date:	9/23/19
OWP (psi):	4,464
Starting Time	12:31 AM
Ending Time	2:37 AM
Pump Time (hr:min)	02:06
Swap Time (hr:min)	03:00
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,463
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,706
Maximum Treating Rate (bbl/min)	81
Maximum Treating Pressure (psi)	8,992
Displacement (psi)	8,838
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,536
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)	8,400
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	508
Pad (bbls)	188
Treatment (bbls)	7,795
Displacement (bbls)	440
(Acid Included) Total (bbls)	8,424
Dirty Job Total (bbls)	8,932
100 Mesh	299,220
40/70	99,560
Total Proppant (lbs)	398,780
Total Proppant %	99.7%

CHEMICALS

FR 9800	177
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 #: 23096
 Date: 9/23/2019
 Well Name: Bogges 1H
 Stage No.: 9


State: WV
 County: Monongahela
 Operator: Stetson/Tilton
 PO/AFE: 100343

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	1000	GAL	\$ 1.25	\$ 1,250.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	2	GAL	\$ 35.00	\$ 70.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,992.20	CWT	\$ 5.50	\$ 16,457.10
SAND 40/70	40/70 white	995.60	CWT	\$ 5.75	\$ 5,724.70
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	177	GAL	\$ 17.75	\$ 3,141.75
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		199.39	TON	\$ 55.00	\$ 10,966.45
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 59,106.00
 25% Discount Applied \$ 14,776.50
 Net Stage Total \$ 44,329.50

(Print Name)

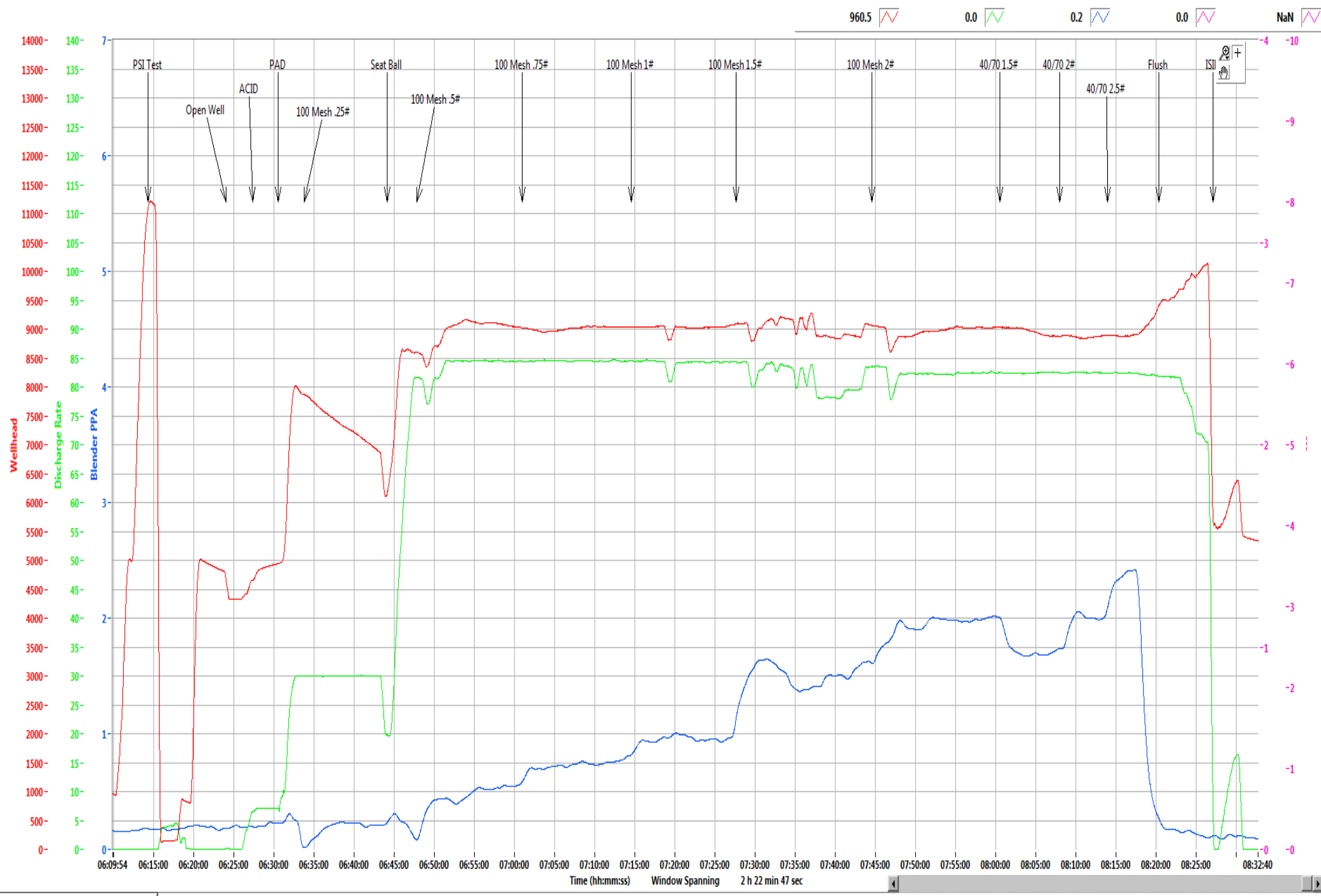
Customer Rep: MIKE Inman

Customer Signature: 

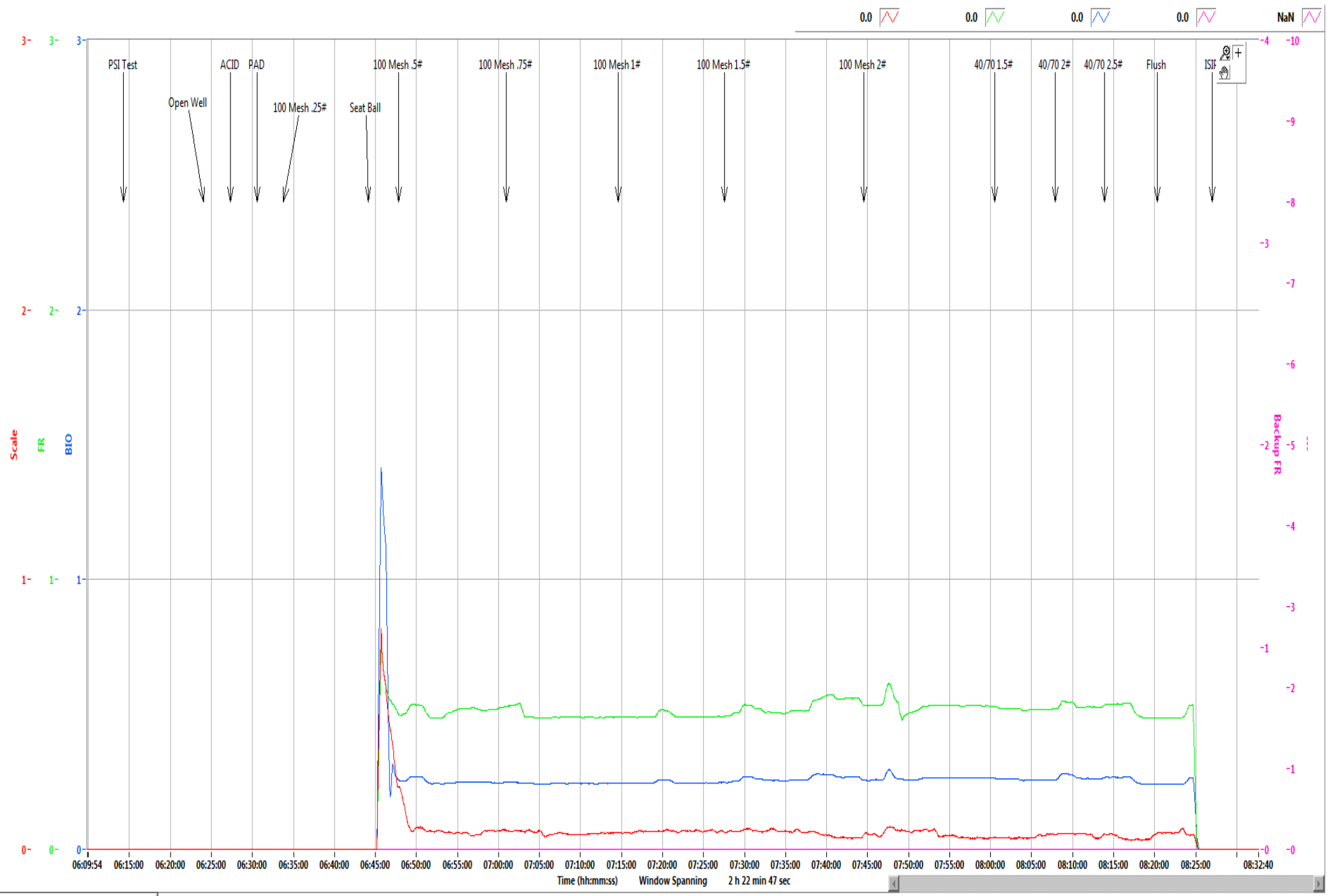


NNE
Boggess 1H
Stage 10
Producers Service Corp.

Post Stage Report
September 23, 2019



Refresh Graph



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Boggess Pad 1H

Stage	10
Date:	9/23/19
OWP (psi):	4,313
Starting Time	6:24 AM
Ending Time	8:27 AM
Pump Time (hr:min)	02:03
Swap Time (hr:min)	03:47
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,558
Average Treating Rate (bbl/min)	93
Average Treating Pressure (psi)	8,977
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,327
Displacement (psi)	9,457
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,479
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)	8,298
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	489
Pad (bbls)	101
Treatment (bbls)	7,752
Displacement (bbls)	487
(Acid Included) Total (bbls)	8,346
Dirty Job Total (bbls)	8,804
100 Mesh	304,440
40/70	101,980
Total Proppant (lbs)	406,420
Total Proppant %	101.6%

CHEMICALS

FR 9800	175
Biocide	86
Scale	17

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



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

Invoice #: 23097
 Date: 9/23/2019
 Well Name: Boggess 1H
 Stage No.: 10

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100343

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	3,044.40	CWT	\$ 5.50	\$ 16,744.20
SAND 40/70	40/70 white	1,019.80	CWT	\$ 5.75	\$ 5,863.85
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	175	GAL	\$ 17.75	\$ 3,106.25
BIOC11219A	Biocide @ 0.25 GPT	86	GAL	\$ 16.00	\$ 1,376.00
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		203.21	TON	\$ 55.00	\$ 11,176.55
DIESEL FUEL	Not eligible for discount	60	GAL	\$ 3.04	\$ 182.40

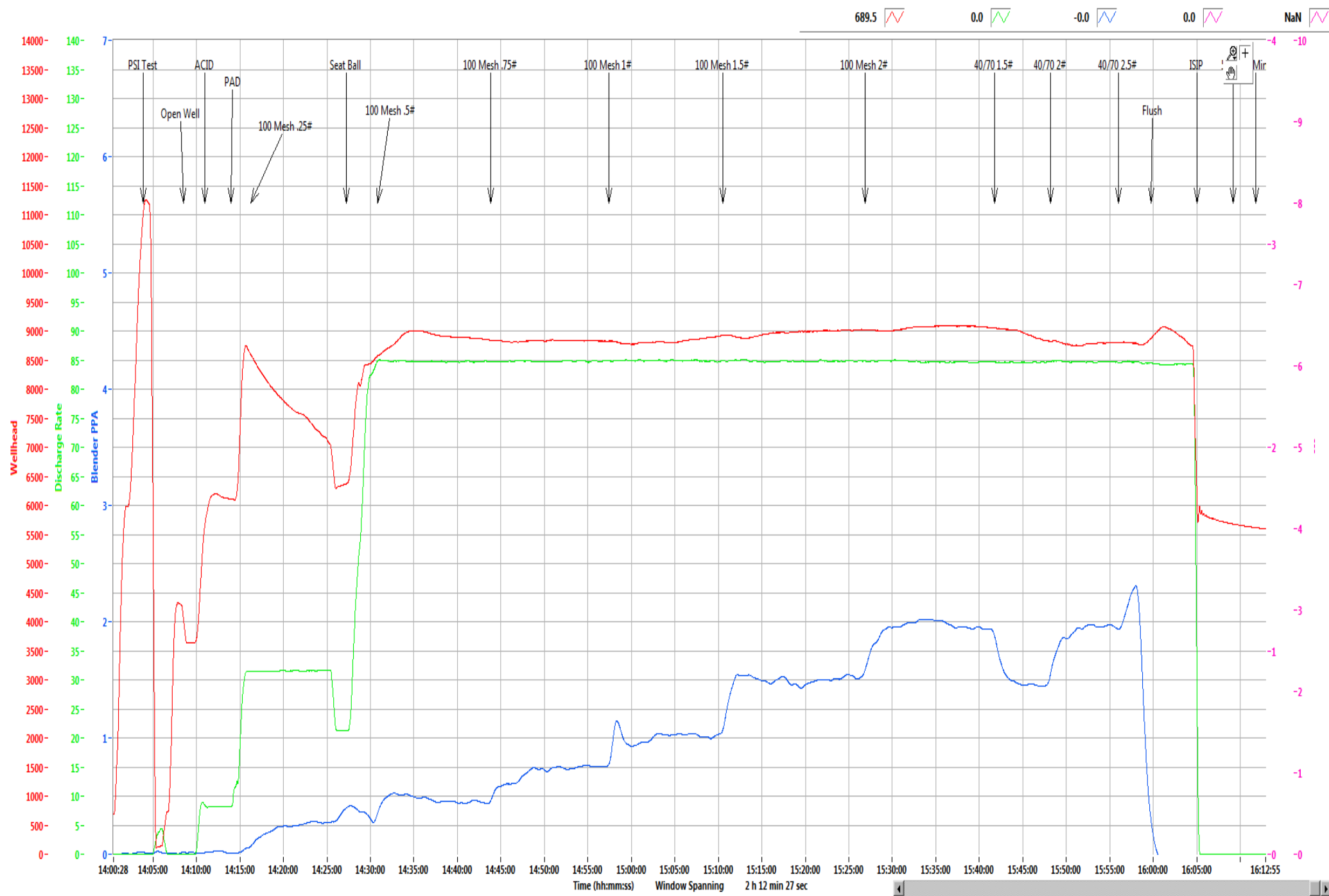
Total No Discount \$ 60,978.85
 25% Discount Applied \$ 15,244.71
 Net Stage Total \$ 45,916.54

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

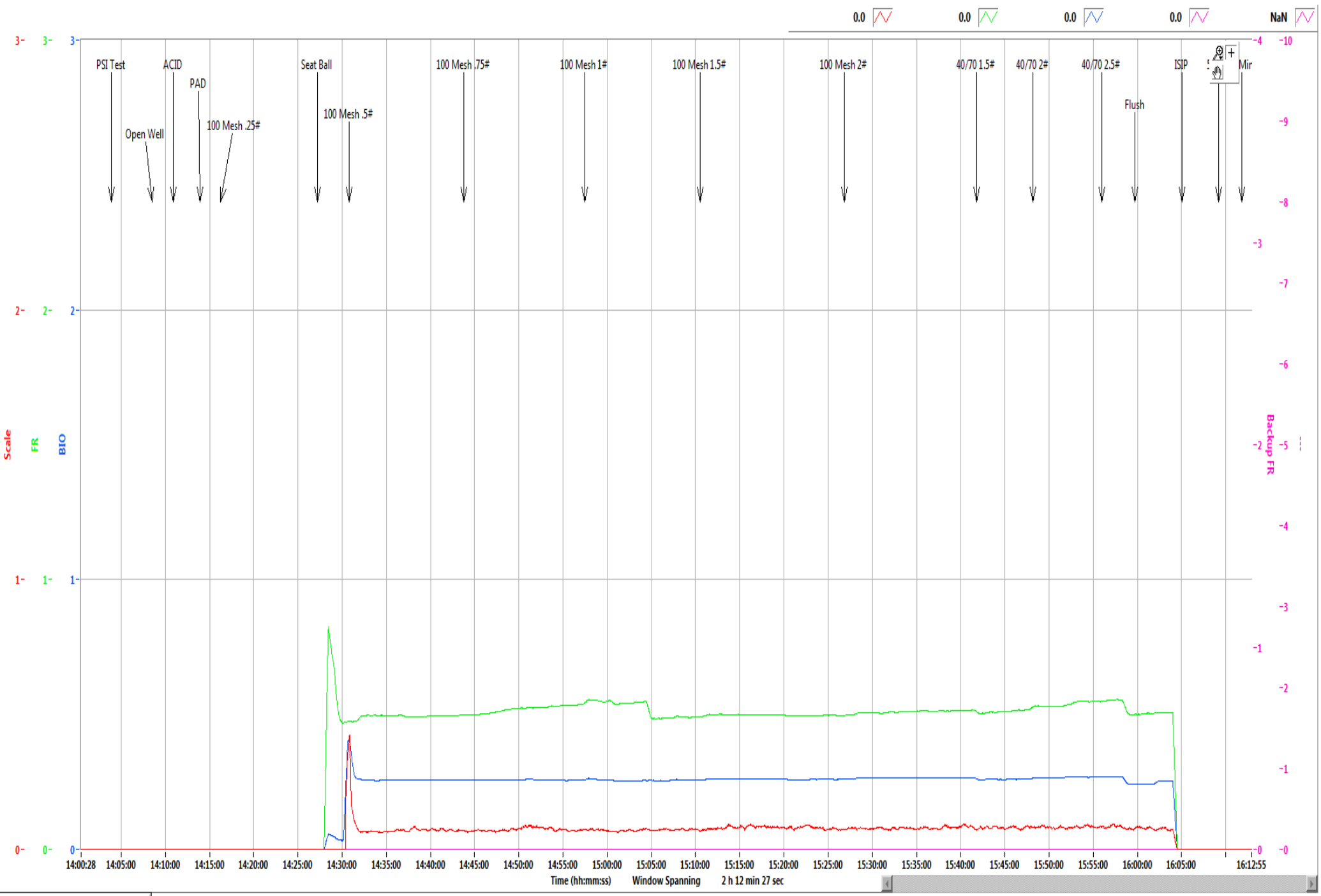


NNE
Boggess 1H
Stage 11
Producers Service Corp.

Post Stage Report
September 23, 2019



Refresh Graph



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Boggess Pad 1H

Stage	11
Date:	9/23/19
OWP (psi):	3,630
Starting Time	2:08 PM
Ending Time	4:05 PM
Pump Time (hr:min)	01:57
Swap Time (hr:min)	05:41
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,459
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,907
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,136
Displacement (psi)	8,915
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,860
Final FG (psi/ft)	1.16
5 Minute Leakoff Pressure (psi)	5,681
5 Minute Leakoff Rate (psi/min)	36
10 Minute Leakoff Pressure (psi)	5,593
10 Minute Leakoff Rate (psi/min)	27
15 Minute Leakoff Pressure (psi)	5,541
15 Minute Leakoff Rate (psi/min)	21

Fluids & Proppant

Slickwater (bbls)	8,096
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	462
Pad (bbls)	85
Treatment (bbls)	7,634
Displacement (bbls)	420
(Acid Included) Total (bbls)	8,144
Dirty Job Total (bbls)	8,643
100 Mesh	297,520
40/70	103,120
Total Proppant (lbs)	400,640
Total Proppant %	100.2%

CHEMICALS

FR 9800	180
Biocide	85
Scale	17

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



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

Invoice #: 23098
 Date: 9/23/2019
 Well Name: Bogges 1H
 Stage No.: 11

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100343

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	2,975.20	CWT	\$ 5.50	\$ 16,363.60
SAND 40/70	40/70 white	1,031.20	CWT	\$ 5.75	\$ 5,929.40
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	180	GAL	\$ 17.75	\$ 3,195.00
BIOC11219A	Biocide @ 0.25 GPT	85	GAL	\$ 16.00	\$ 1,360.00
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		200.32	TON	\$ 55.00	\$ 11,017.60
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

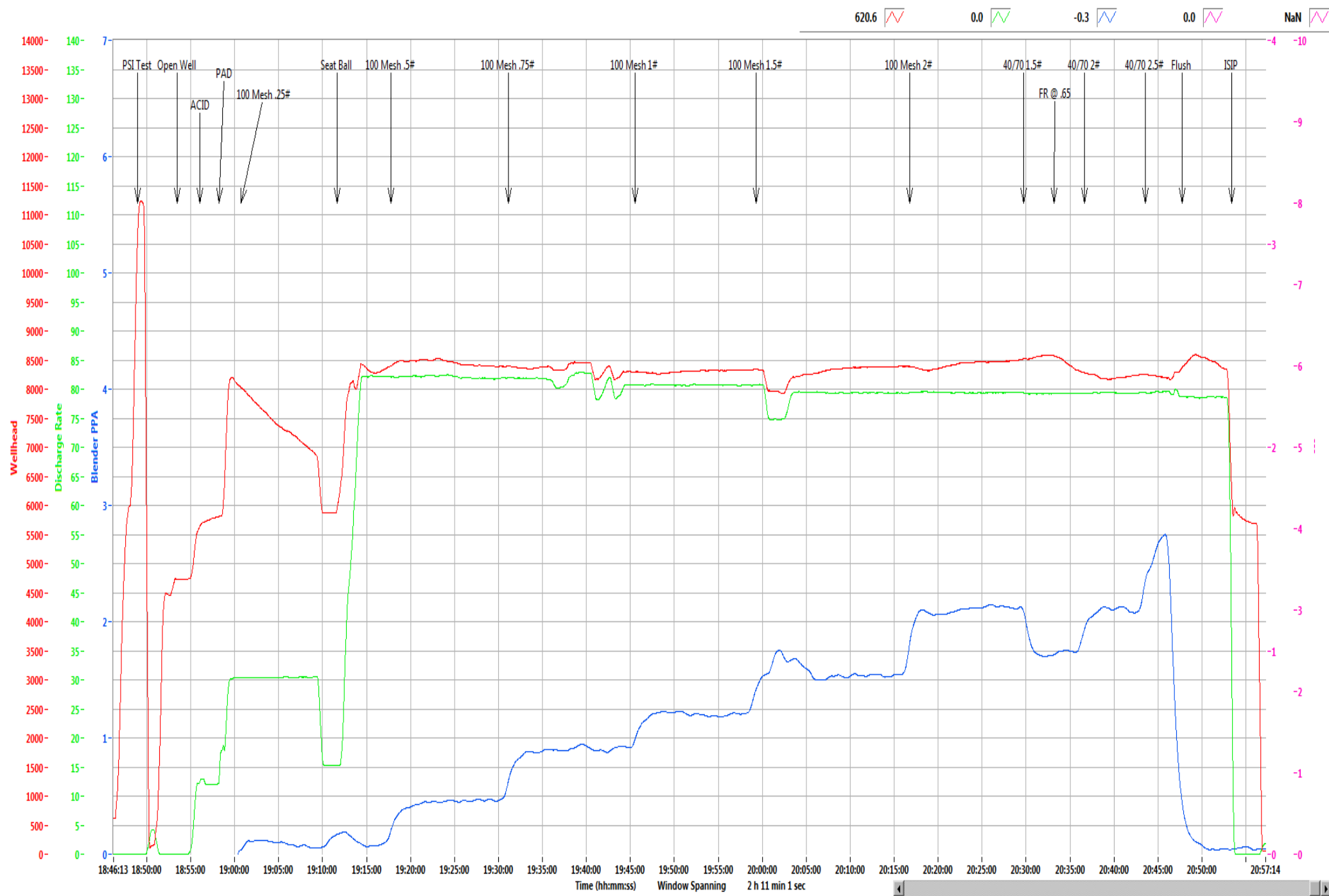
Total No Discount \$ 60,577.60
 25% Discount Applied \$ 15,144.40
 Net Stage Total \$ 45,433.20

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

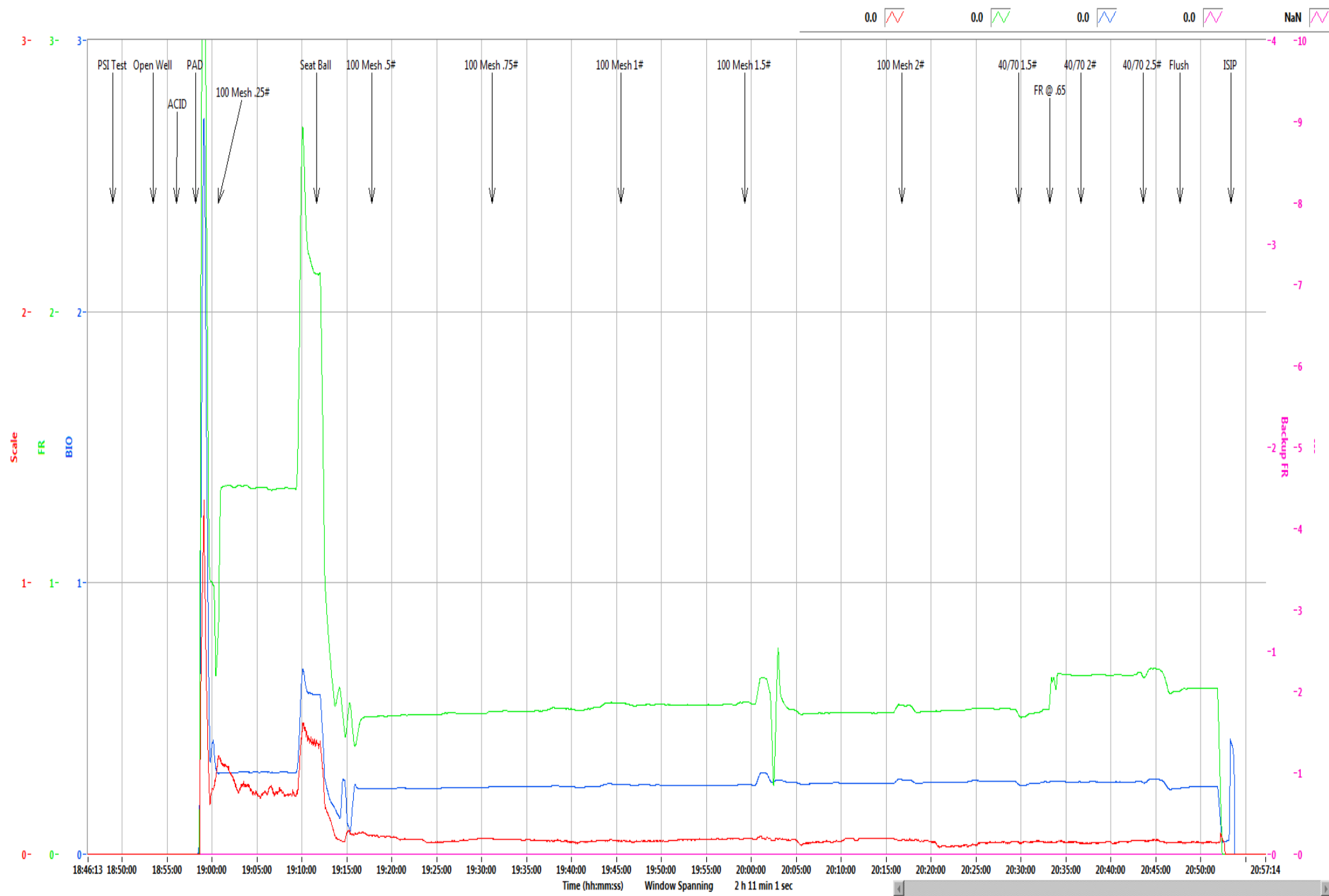


NNE
Boggess 1H
Stage 12
Producers Service Corp.

Post Stage Report
September 23, 2019



Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	12
Date:	9/23/19
OWP (psi):	4,730
Starting Time	6:48 PM
Ending Time	8:53 PM
Pump Time (hr:min)	02:05
Swap Time (hr:min)	02:43
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,372
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,349
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,636
Displacement (psi)	8,441
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,060
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)	7,998
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	484
Pad (bbls)	66
Treatment (bbls)	7,536
Displacement (bbls)	415
(Acid Included) Total (bbls)	8,022
Dirty Job Total (bbls)	8,514
100 Mesh	298,520
40/70	101,240
Total Proppant (lbs)	399,760
Total Proppant %	99.9%

CHEMICALS

FR 9800	178
Biocide	87
Scale	19

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



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

Invoice #: 23099
 Date: 9/23/2019
 Well Name: Bogges 1H
 Stage No.: 12

State: WV
 County: Monongahela
 Operator: Stetson/Jeremy M
 PO/AFE: 100343

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	1000	GAL	\$ 1.25	\$ 1,250.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	2	GAL	\$ 35.00	\$ 70.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,985.20	CWT	\$ 5.50	\$ 16,418.60
SAND 40/70	40/70 white	1,012.40	CWT	\$ 5.75	\$ 5,821.30
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	178	GAL	\$ 17.75	\$ 3,159.50
BIOC11219A	Biocide @ 0.25 GPT	87	GAL	\$ 16.00	\$ 1,392.00
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		199.88	TON	\$ 55.00	\$ 10,993.40
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

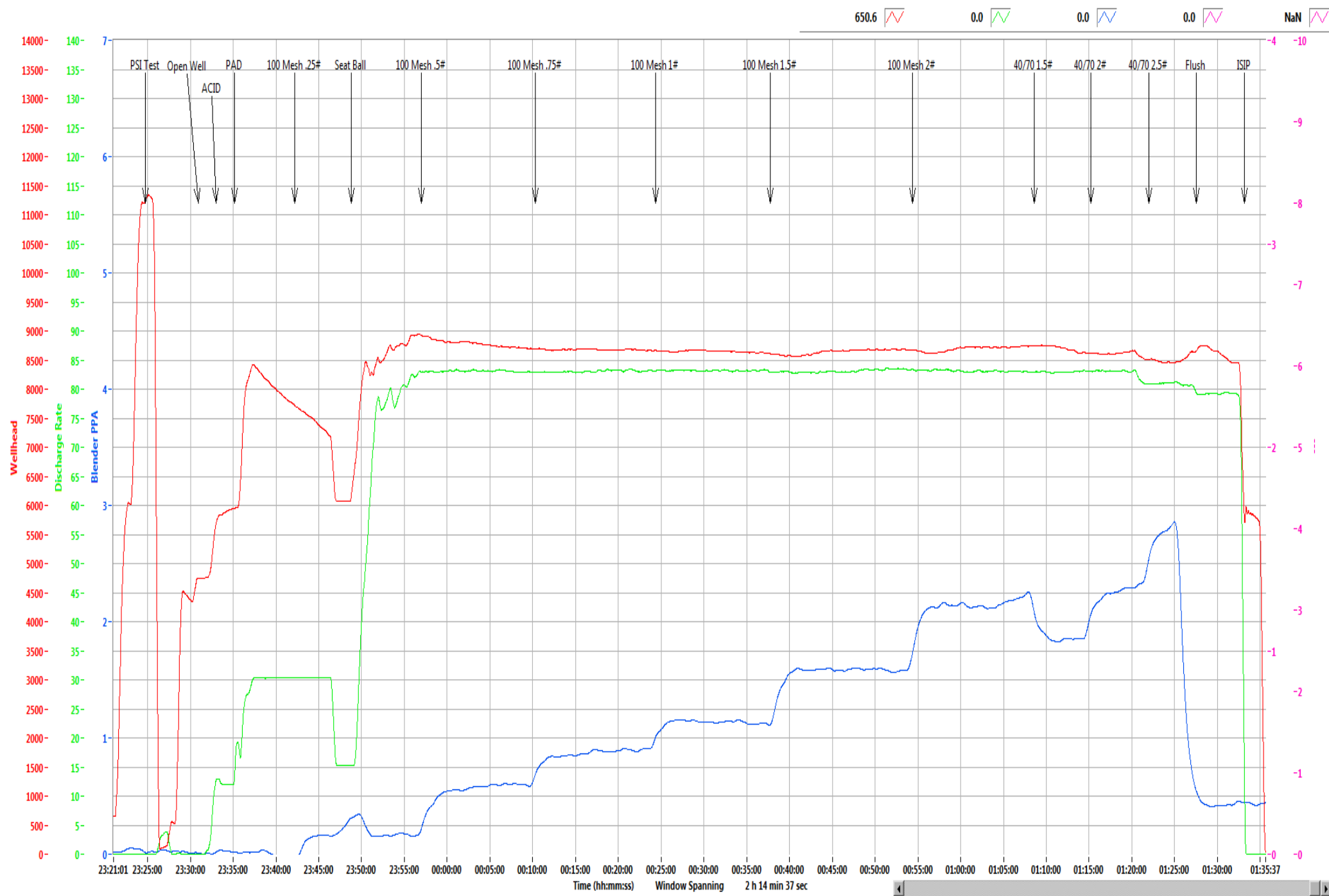
Total No Discount \$ 59,208.80
 25% Discount Applied \$ 14,802.20
 Net Stage Total \$ 44,406.60

(Print Name) Customer Rep: Mike Inman Customer Signature: 

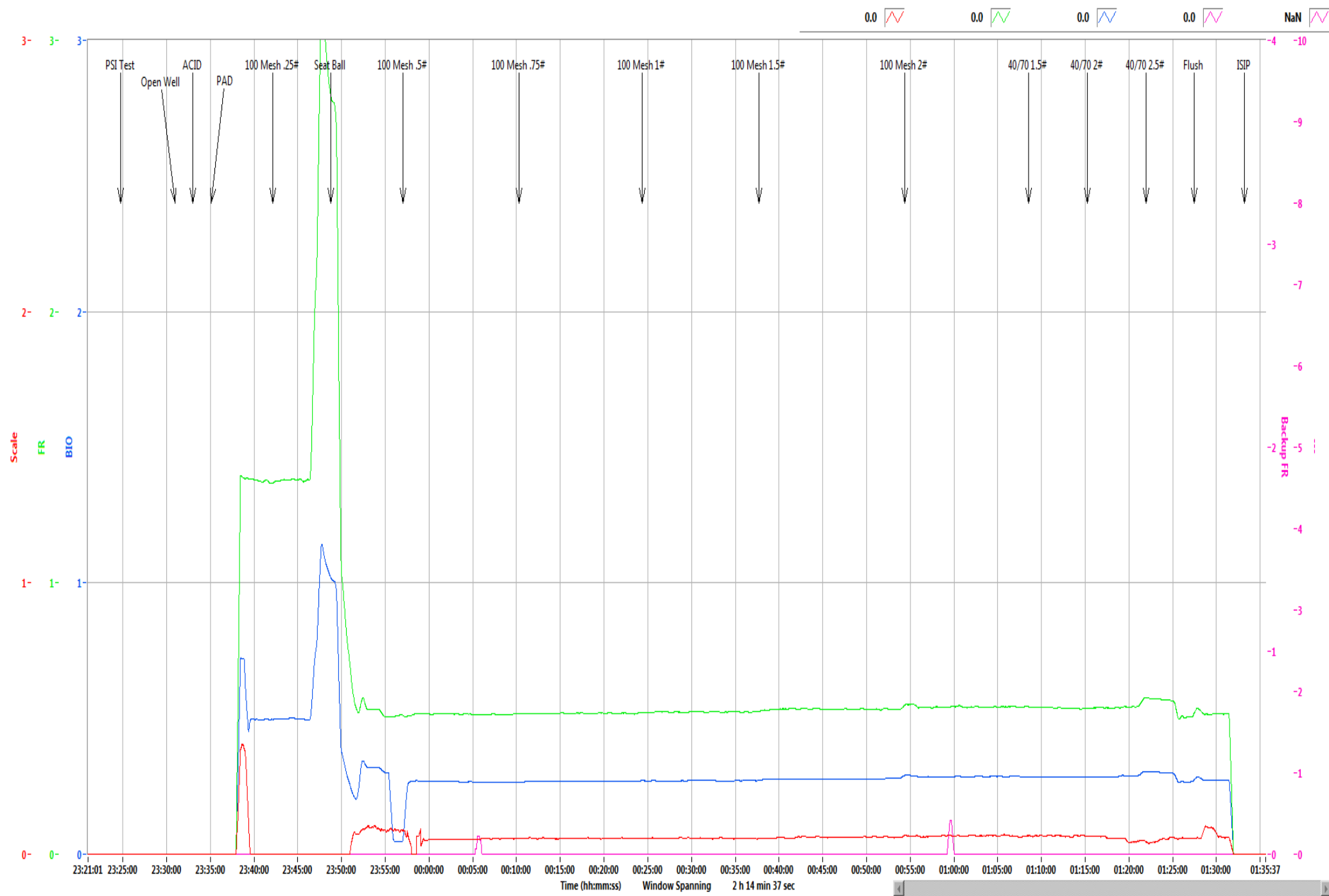


NNE
Boggess 1H
Stage 13
Producers Service Corp.

Post Stage Report
September 24, 2019



Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	13
Date:	9/24/19
OWP (psi):	4,758
Starting Time	11:24 PM
Ending Time	1:33 AM
Pump Time (hr:min)	02:09
Swap Time (hr:min)	02:31
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,715
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,672
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,991
Displacement (psi)	8,691
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,064
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)	8,348
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	504
Pad (bbls)	198
Treatment (bbls)	7,760
Displacement (bbls)	410
(Acid Included) Total (bbls)	8,372
Dirty Job Total (bbls)	8,888
100 Mesh	300,060
40/70	102,000
Total Proppant (lbs)	402,060
Total Proppant %	100.5%

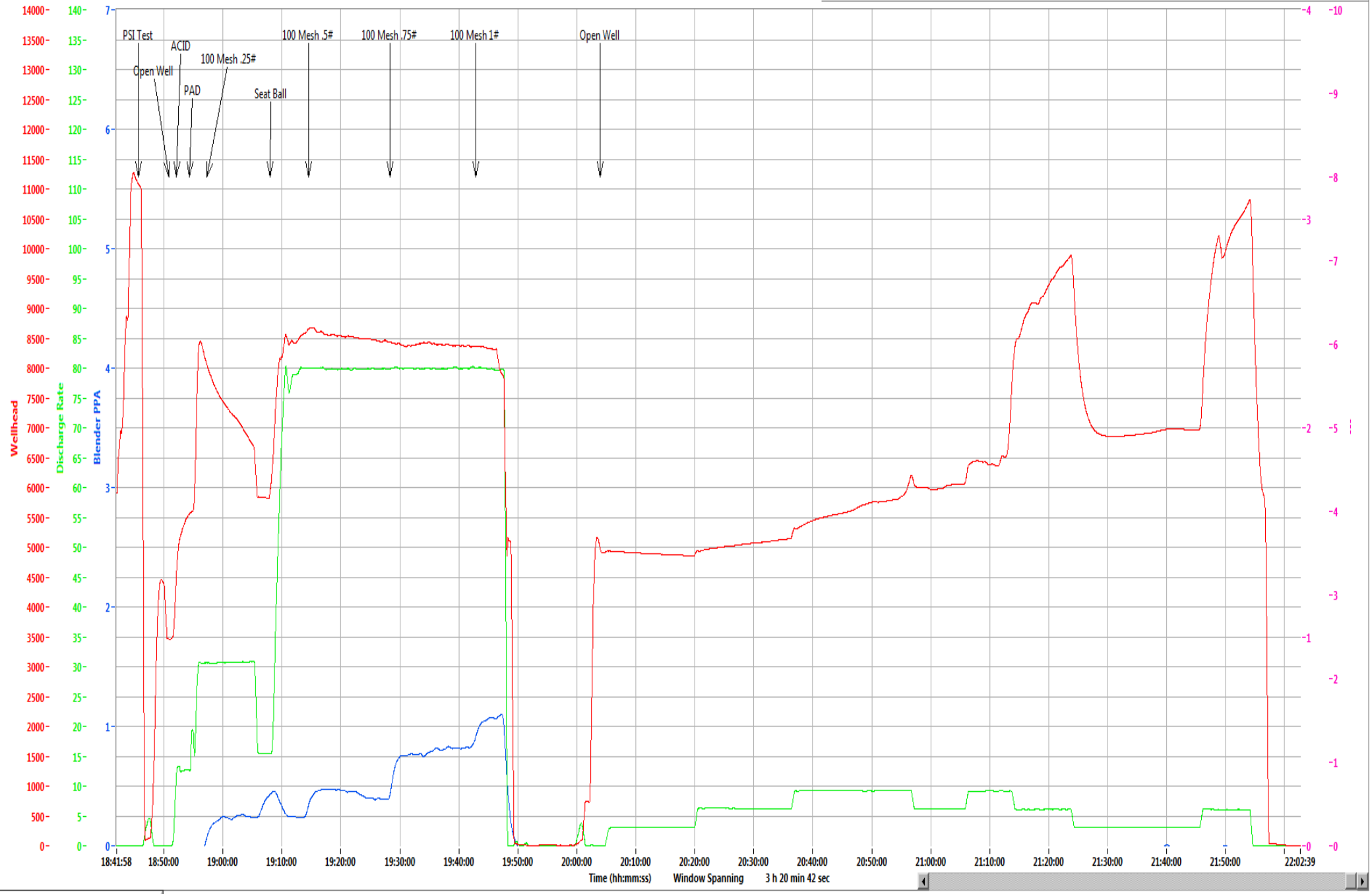
CHEMICALS

FR 9800	173
Biocide	89
Scale	18



NNE
Boggess 1H
Stage 14
Producers Service Corp.

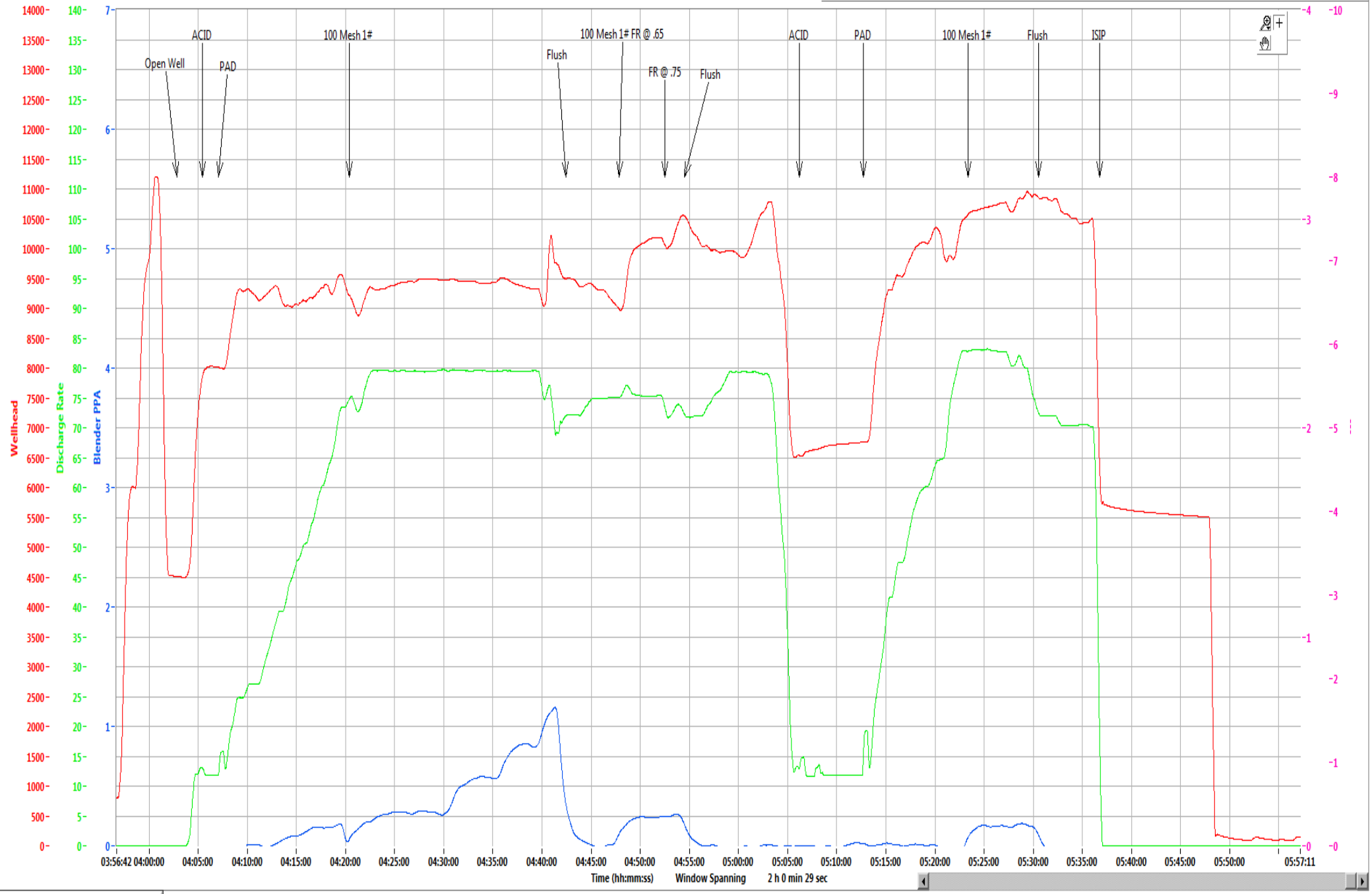
Post Stage Report
September 25, 2019



Time (hh:mm:ss) Window Spanning 3 h 20 min 42 sec

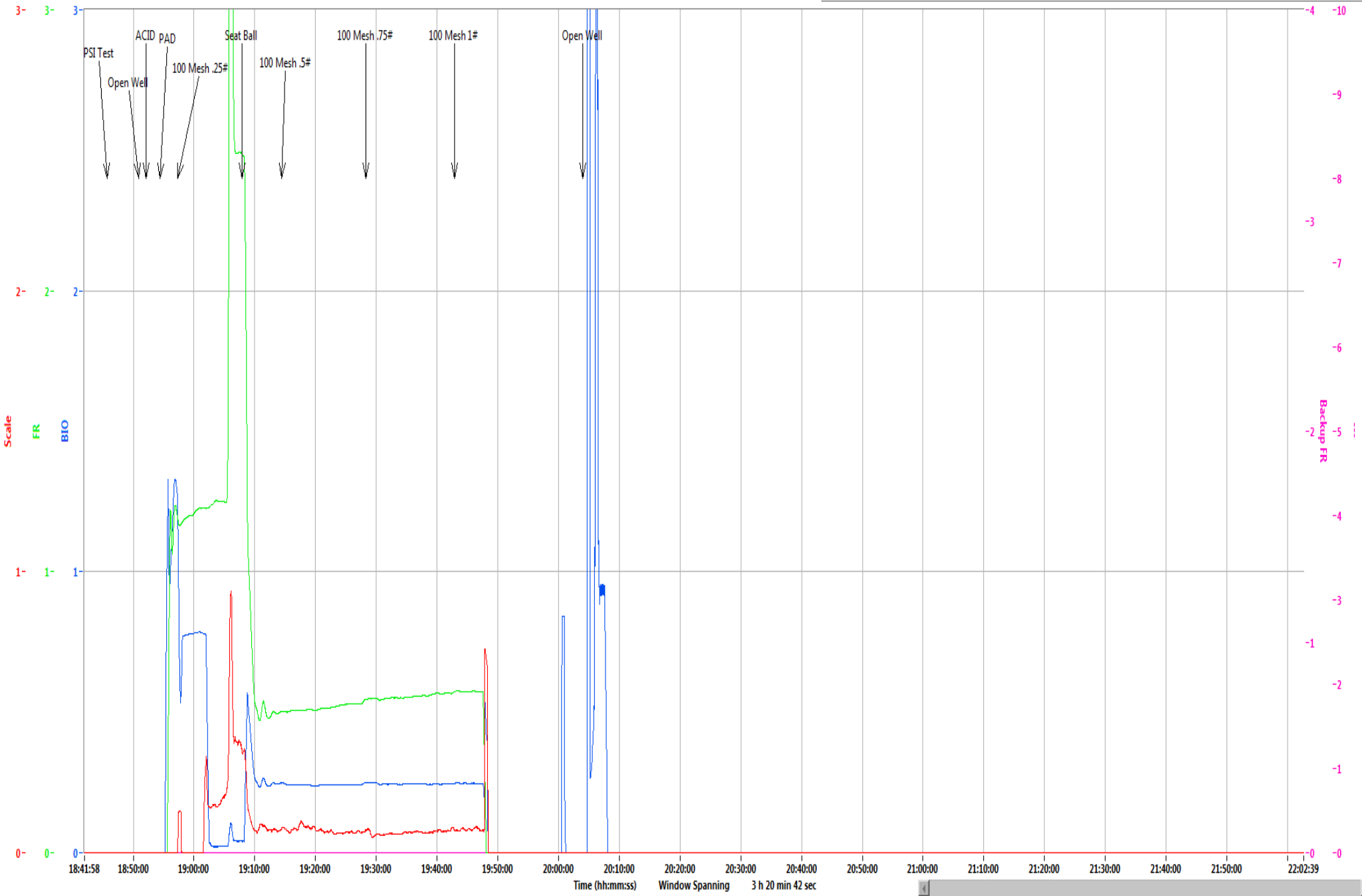
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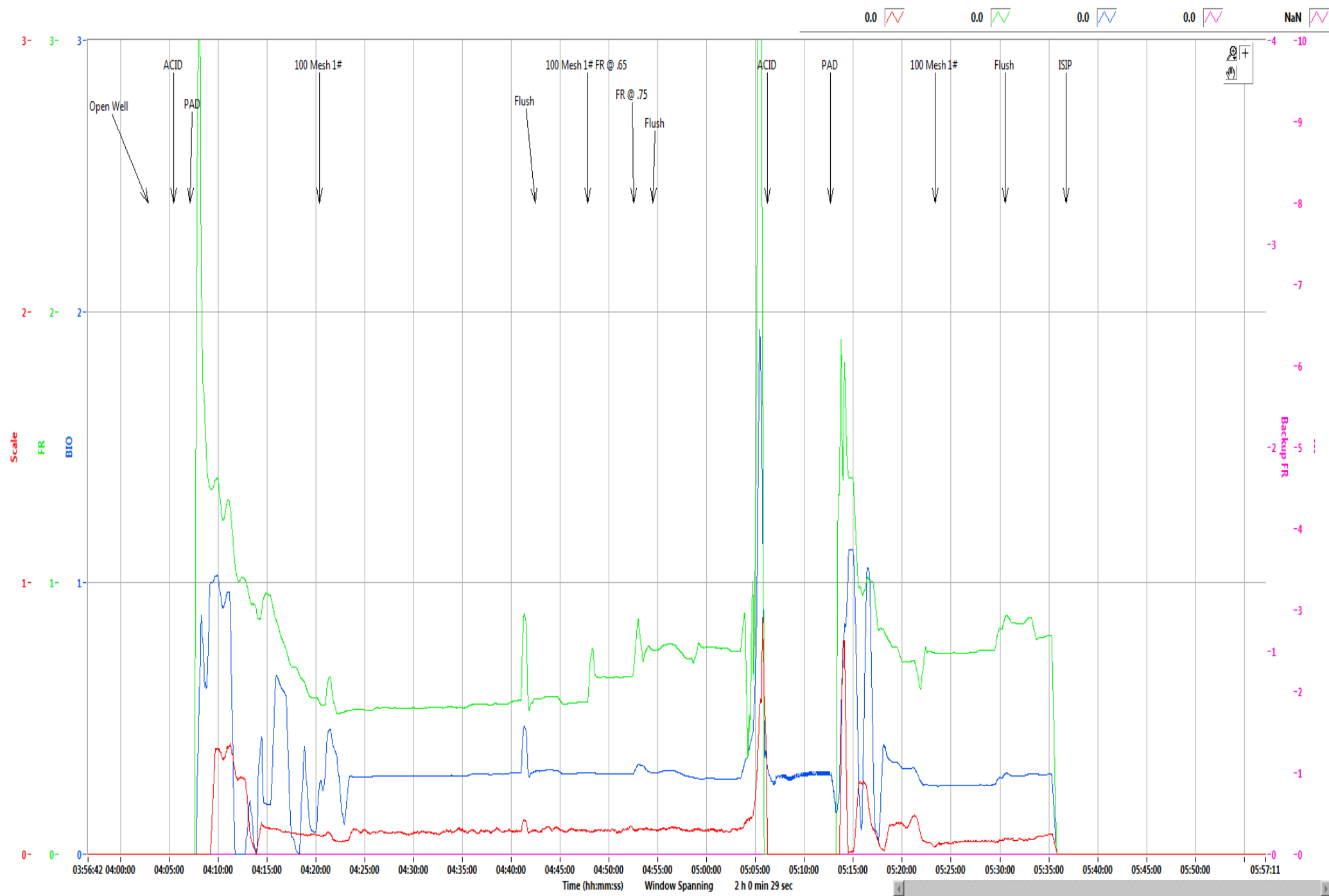
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Time (hh:mm:ss) Window Spanning 3 h 20 min 42 sec

Refresh Graph



Refresh Graph

Boguess Pad 1H

Stage	14
Date:	9/24/19
OWP (psi):	3,454
Starting Time	6:45 PM
Ending Time	5:36 AM
Pump Time (hr:min)	10:51
Swap Time (hr:min)	01:20
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,269
Average Treating Rate (bbl/min)	77.0
Average Treating Pressure (psi)	9,633
Maximum Treating Rate (bbl/min)	81.0
Maximum Treating Pressure (psi)	11,050
Displacement (psi)	10,850
Max Prop Con (lb/gal)	1.00
ShutDown ISIP (psi)	5,804
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)	10,315
Acid 7.5% HCL (gal)	4,000
Wireline Pump Down (bbls)	440
Pad (bbls)	73
Treatment (bbls)	6,015
Displacement (bbls)	1,573
(Acid Included) Total (bbls)	10,410
Dirty Job Total (bbls)	10,717
100 Mesh	135,620
40/70	
Total Proppant (lbs)	135,620
Total Proppant %	33.9%

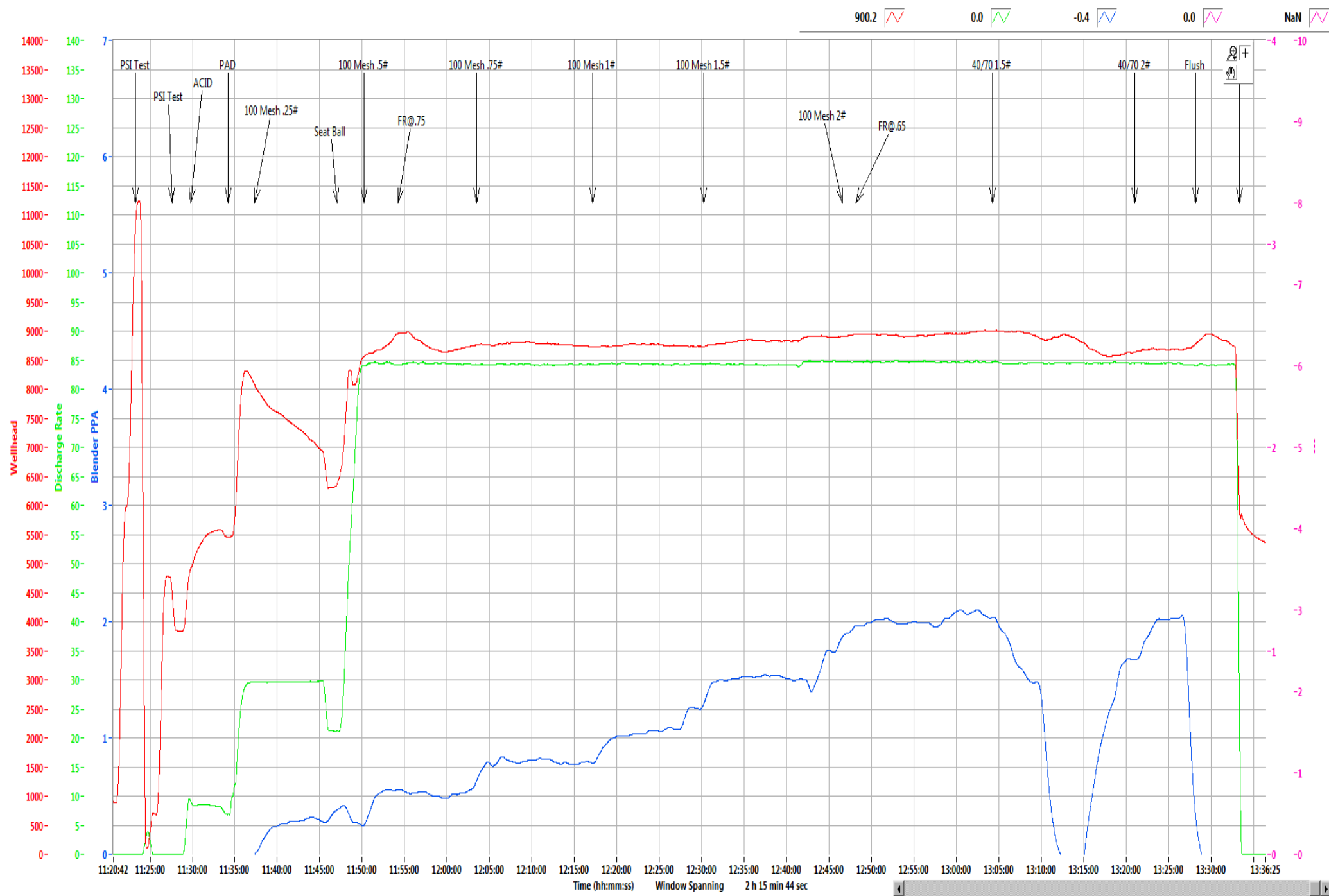
CHEMICALS

FR 9800	206
Biocide	89
Scale	17



NNE
Boggess 1H
Stage 15
Producers Service Corp.

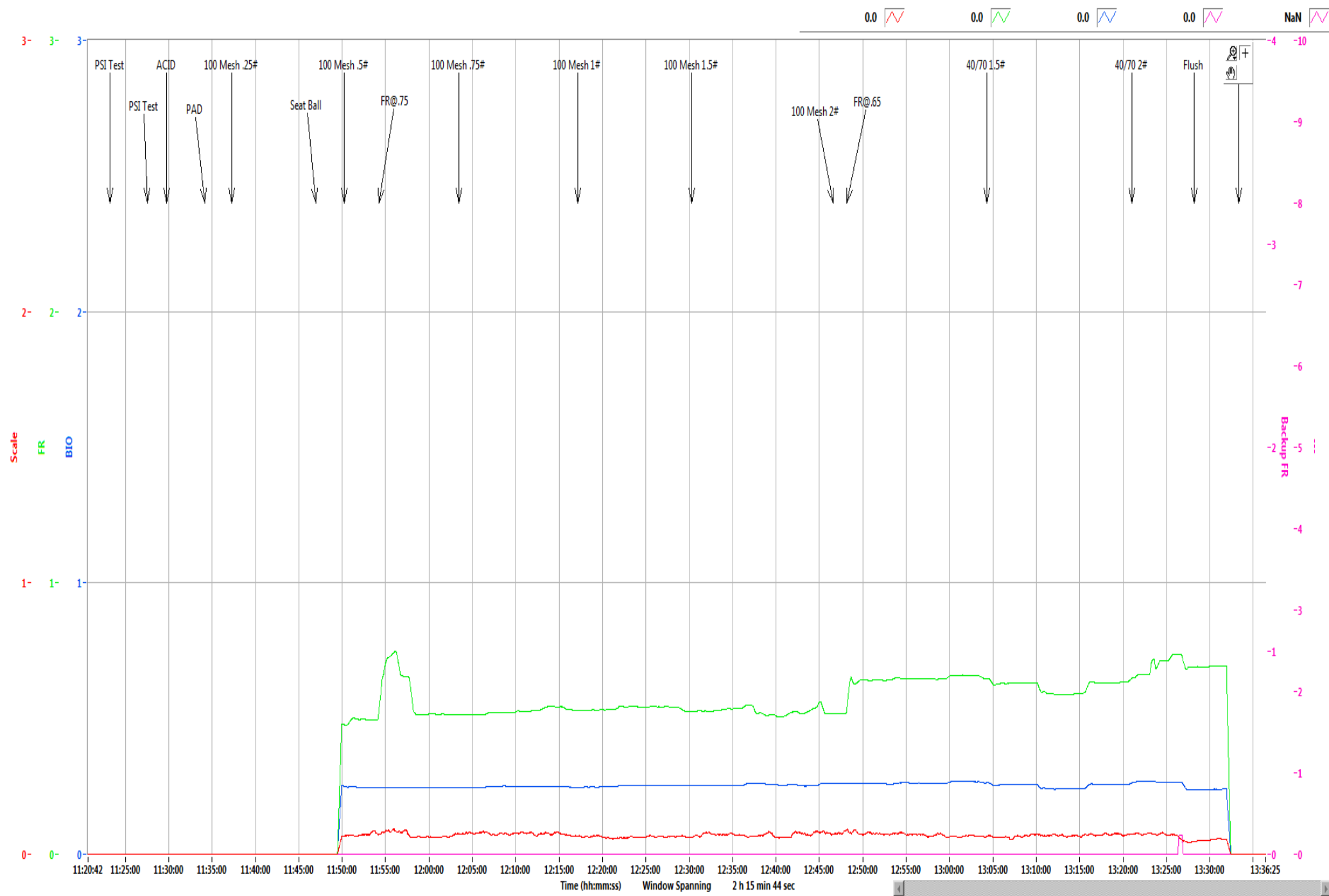
Post Stage Report
September 25, 2019



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Time (hh:mm:ss) Window Spanning 2 h 15 min 44 sec

Refresh Graph



Refresh Graph

Boguess Pad 1H

Stage	15
Date:	9/25/19
OWP (psi):	3,847
Starting Time	11:27 AM
Ending Time	1:33 PM
Pump Time (hr:min)	02:06
Swap Time (hr:min)	01:46
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,560
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,813
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,056
Displacement (psi)	8,810
Max Prop Con (lb/gal)	2.00
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)	8,693
Acid 7.5% HCL (gal)	3,000
Wireline Pump Down (bbls)	487
Pad (bbls)	110
Treatment (bbls)	8,247
Displacement (bbls)	401
(Acid Included) Total (bbls)	8,764
Dirty Job Total (bbls)	9,251
100 Mesh	303,140
40/70	105,480
Total Proppant (lbs)	408,620
Total Proppant %	102.2%

CHEMICALS

FR 9800	190
Biocide	90
Scale	18

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



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

Invoice #: 23104
 Date: 9/25/2019
 Well Name: Boggess 1H
 Stage No.: 15

State: WV
 County: Monongahela
 Operator: Brad/Jamie
 PO/AFE: 100343

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	3,031.40	CWT	\$ 5.50	\$ 16,672.70
SAND 40/70	40/70 white	1,054.80	CWT	\$ 5.75	\$ 6,065.10
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	190	GAL	\$ 17.75	\$ 3,372.50
BIOC11219A	Biocide @ 0.25 GPT	90	GAL	\$ 16.00	\$ 1,440.00
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		204.31	TON	\$ 55.00	\$ 11,237.05
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 62,835.35
 25% Discount Applied \$ 15,708.84
 Net Stage Total \$ 47,126.51

(Print Name)
 Customer Rep:

E. Boone

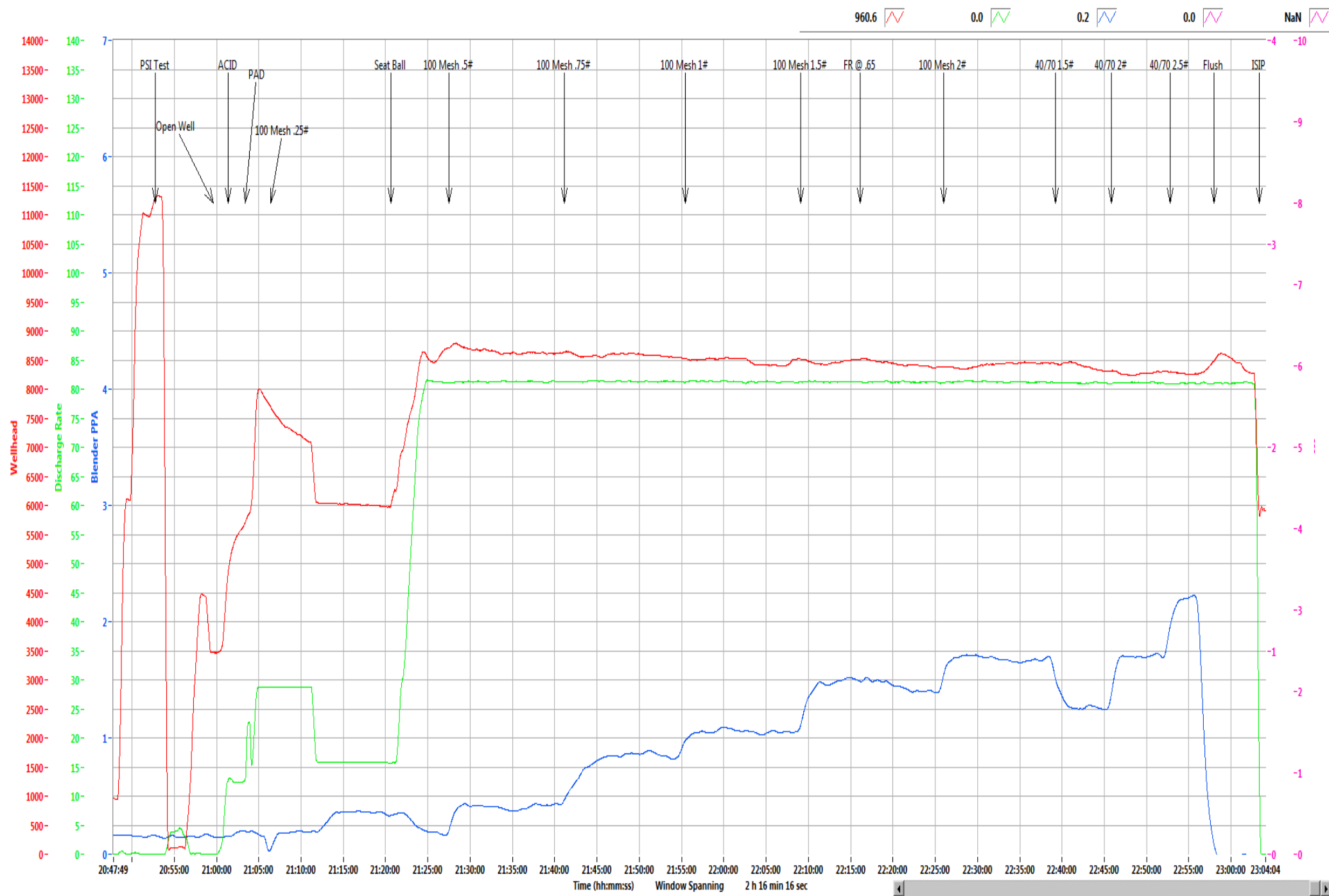
Customer Signature:

E. Boone

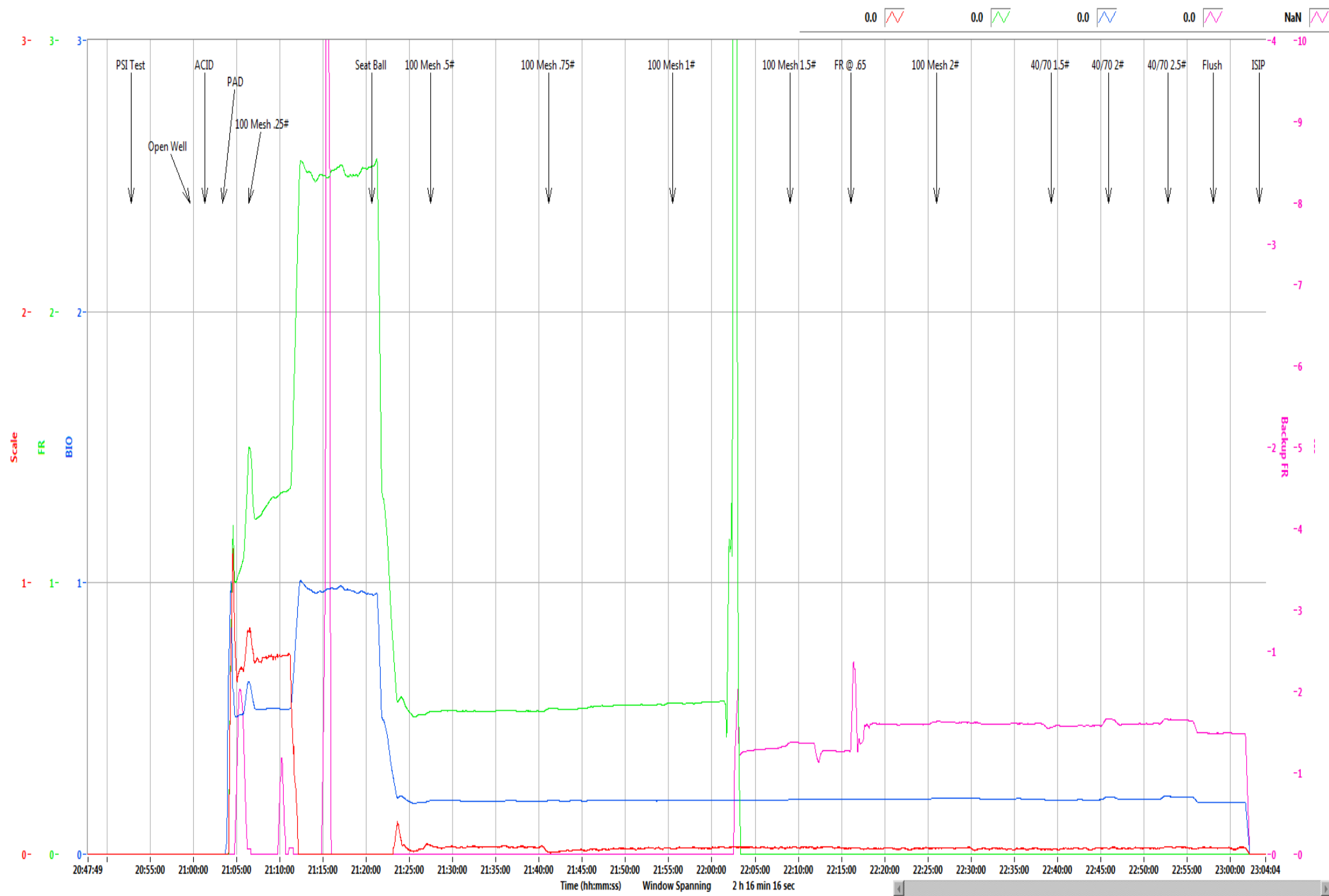


NNE
Boggess 1H
Stage 16
Producers Service Corp.

Post Stage Report
September 25, 2019



Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	16
Date:	9/25/19
OWP (psi):	3,461
Starting Time	8:59 PM
Ending Time	11:03 PM
Pump Time (hr:min)	02:04
Swap Time (hr:min)	00:48
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,362
Average Treating Rate (bbl/min)	81
Average Treating Pressure (psi)	8,485
Maximum Treating Rate (bbl/min)	82
Maximum Treating Pressure (psi)	8,815
Displacement (psi)	8,530
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,564
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)	8,117
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	414
Pad (bbls)	80
Treatment (bbls)	7,660
Displacement (bbls)	395
(Acid Included) Total (bbls)	8,141
Dirty Job Total (bbls)	8,596
100 Mesh	297,880
40/70	100,540
Total Proppant (lbs)	398,420
Total Proppant %	99.6%

CHEMICALS

FR 9800	215
Biocide	89
Scale	19

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



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

Invoice #: 23106
 Date: 9/25/2019
 Well Name: Bogges 1H
 Stage No.: 16

State: WV
 County: Monongahela
 Operator: Stetson/Moon
 PO/AFE: 100343

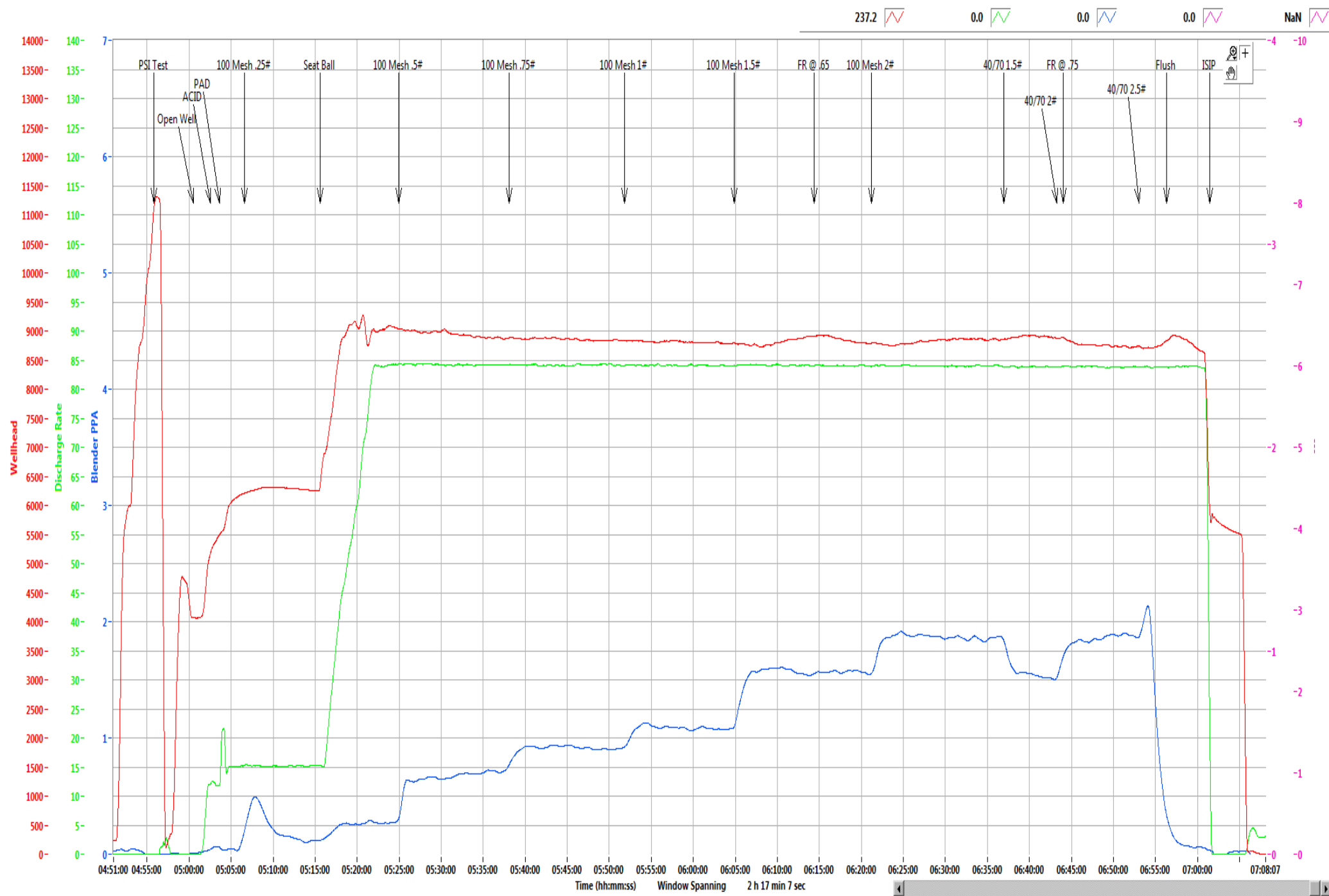
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	1000	GAL	\$ 1.25	\$ 1,250.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	2	GAL	\$ 35.00	\$ 70.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,978.80	CWT	\$ 5.50	\$ 16,383.40
SAND 40/70	40/70 white	1,005.40	CWT	\$ 5.75	\$ 5,781.05
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	215	GAL	\$ 17.75	\$ 3,816.25
BIOC11219A	Biocide @ 0.25 GPT	89	GAL	\$ 16.00	\$ 1,424.00
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		199.21	TON	\$ 55.00	\$ 10,956.55
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 59,785.25
				25% Discount Applied	\$ 14,946.31
				Net Stage Total	\$ 44,838.94

(Print Name) Customer Rep: Mike Jones Customer Signature: 



NNE
Boggess 1H
Stage 17
Producers Service Corp.

Post Stage Report
September 26, 2019



Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	17
Date:	9/26/19
OWP (psi):	4,067
Starting Time	5:00 AM
Ending Time	7:01 AM
Pump Time (hr:min)	02:01
Swap Time (hr:min)	02:33
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,989
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,849
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,400
Displacement (psi)	8,830
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,656
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)	8,431
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	443
Pad (bbls)	48
Treatment (bbls)	7,993
Displacement (bbls)	396
(Acid Included) Total (bbls)	8,443
Dirty Job Total (bbls)	8,865
100 Mesh	300,140
40/70	83,380
Total Proppant (lbs)	383,520
Total Proppant %	95.9%

CHEMICALS

FR 9800	215
Biocide	92
Scale	21

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



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

Invoice #: 23108
Date: 9/26/2019
Well Name: Bogges 1H
Stage No.: 17

State: WV
County: Monongahela
Operator: Stetson/Moon
PO/AFE: 100343

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	3,001.40	CWT	\$ 5.50	\$ 16,507.70
SAND 40/70	40/70 white	833.80	CWT	\$ 5.75	\$ 4,794.35
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	215	GAL	\$ 17.75	\$ 3,816.25
BIOC11219A	Biocide @ 0.25 GPT	92	GAL	\$ 16.00	\$ 1,472.00
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		191.76	TON	\$ 55.00	\$ 10,546.80
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 57,933.10
25% Discount Applied \$ 14,483.28
Net Stage Total \$ 43,449.83

(Print Name) :
Customer Rep:

E. Boone

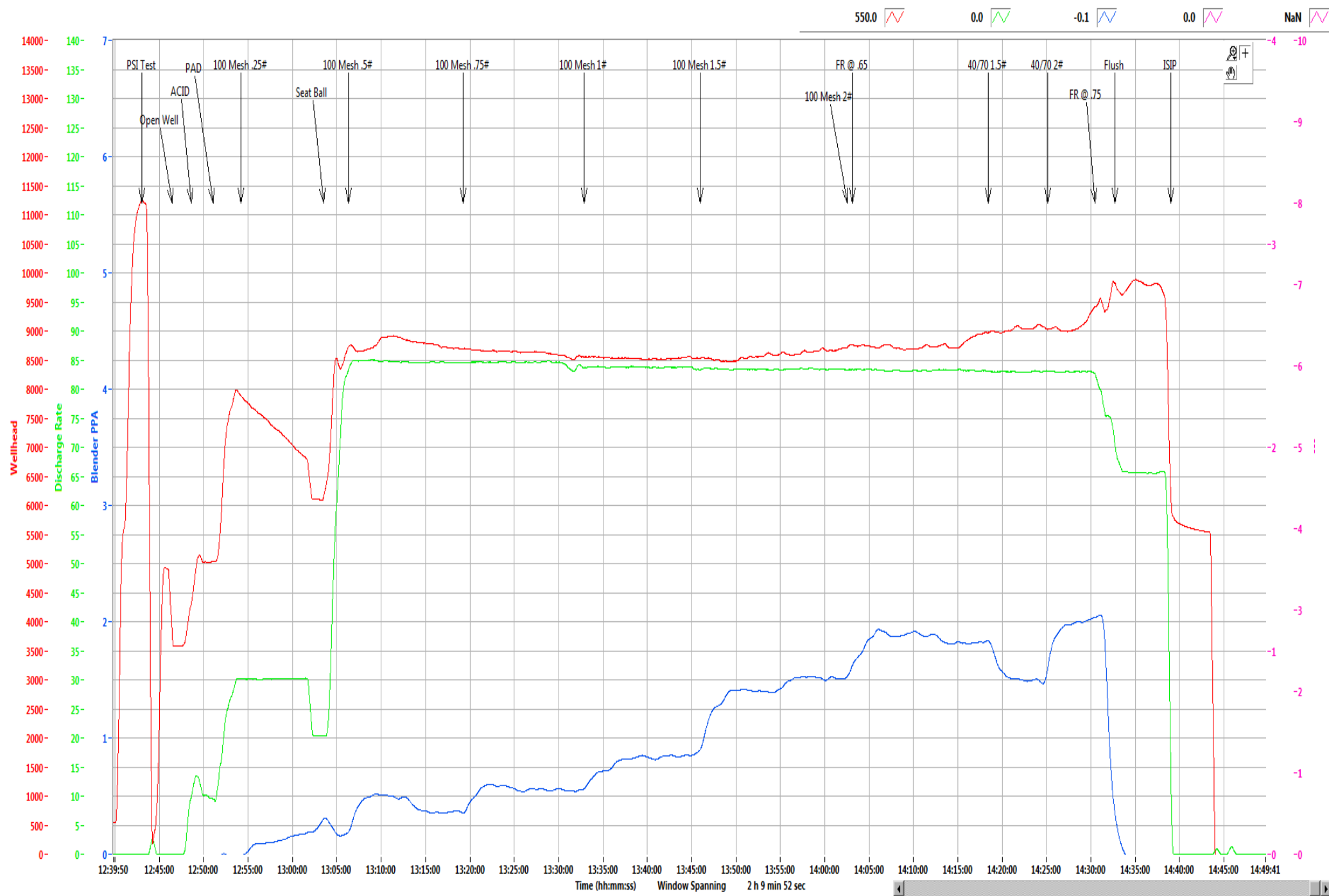
Customer Signature:

E. Boone

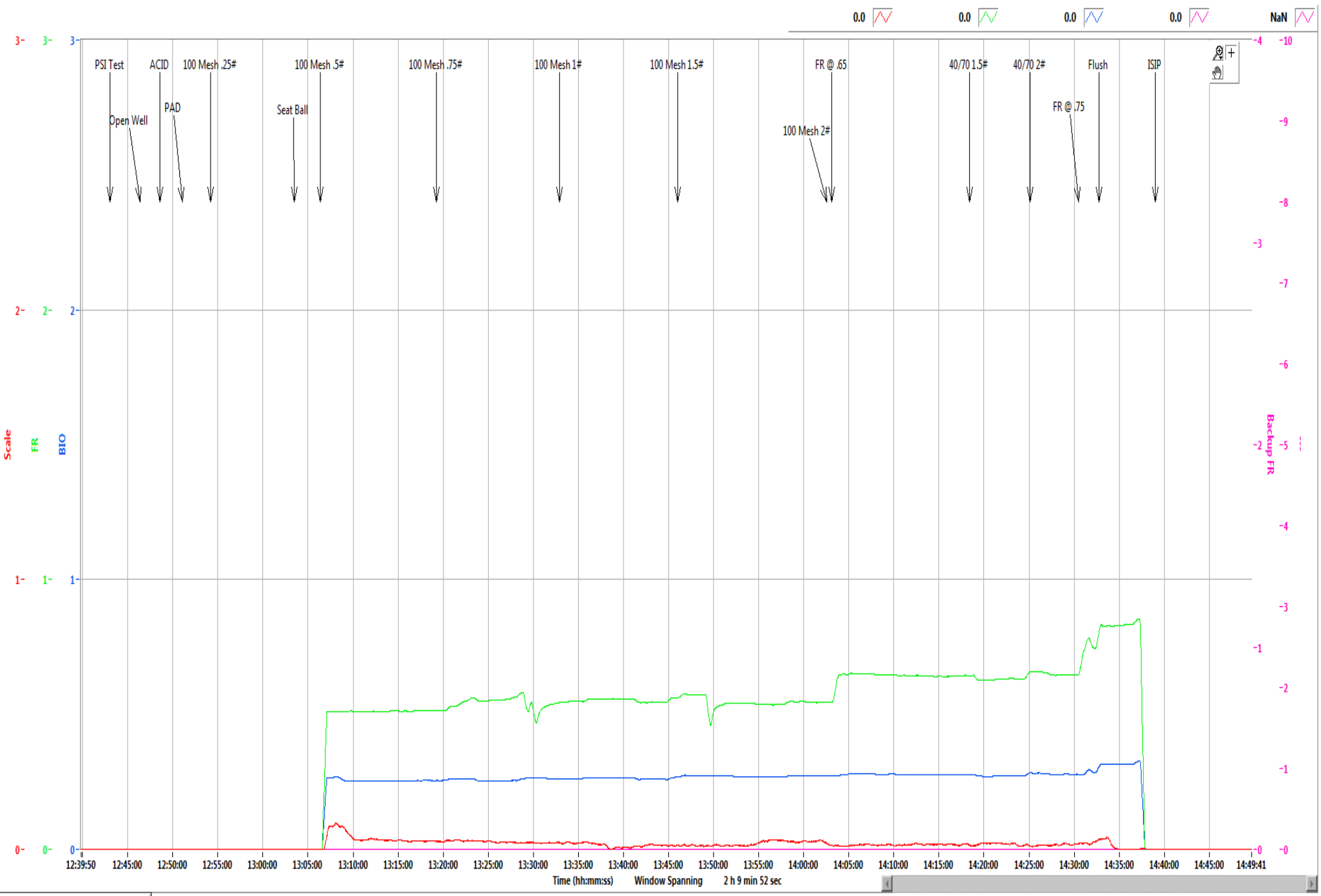


**NNE
Boggess 1H
Stage 18
Producers Service Corp.**

**Post Stage Report
September 26, 2019**



Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	18
Date:	9/26/19
OWP (psi):	3,566
Starting Time	12:46 PM
Ending Time	2:38 PM
Pump Time (hr:min)	01:52
Swap Time (hr:min)	02:28
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,482
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,754
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	10,011
Displacement (psi)	9,713
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,887
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)	7,692
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	511
Pad (bbls)	75
Treatment (bbls)	7,274
Displacement (bbls)	387
(Acid Included) Total (bbls)	7,740
Dirty Job Total (bbls)	8,143
100 Mesh	300,820
40/70	91,680
Total Proppant (lbs)	392,500
Total Proppant %	98.1%

CHEMICALS

FR 9800	191
Biocide	95
Scale	20

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



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

Invoice #: 23110
 Date: 9/26/2019
 Well Name: Bogges 1H
 Stage No.: 18

State: WV
 County: Monongahela
 Operator: Brad/Joe
 PO/AFE: 100343

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	3,008.20	CWT	\$ 5.50	\$ 16,545.10
SAND 40/70	40/70 white	916.80	CWT	\$ 5.75	\$ 5,271.60
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	191	GAL	\$ 17.75	\$ 3,390.25
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
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		196.25	TON	\$ 55.00	\$ 10,793.75
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

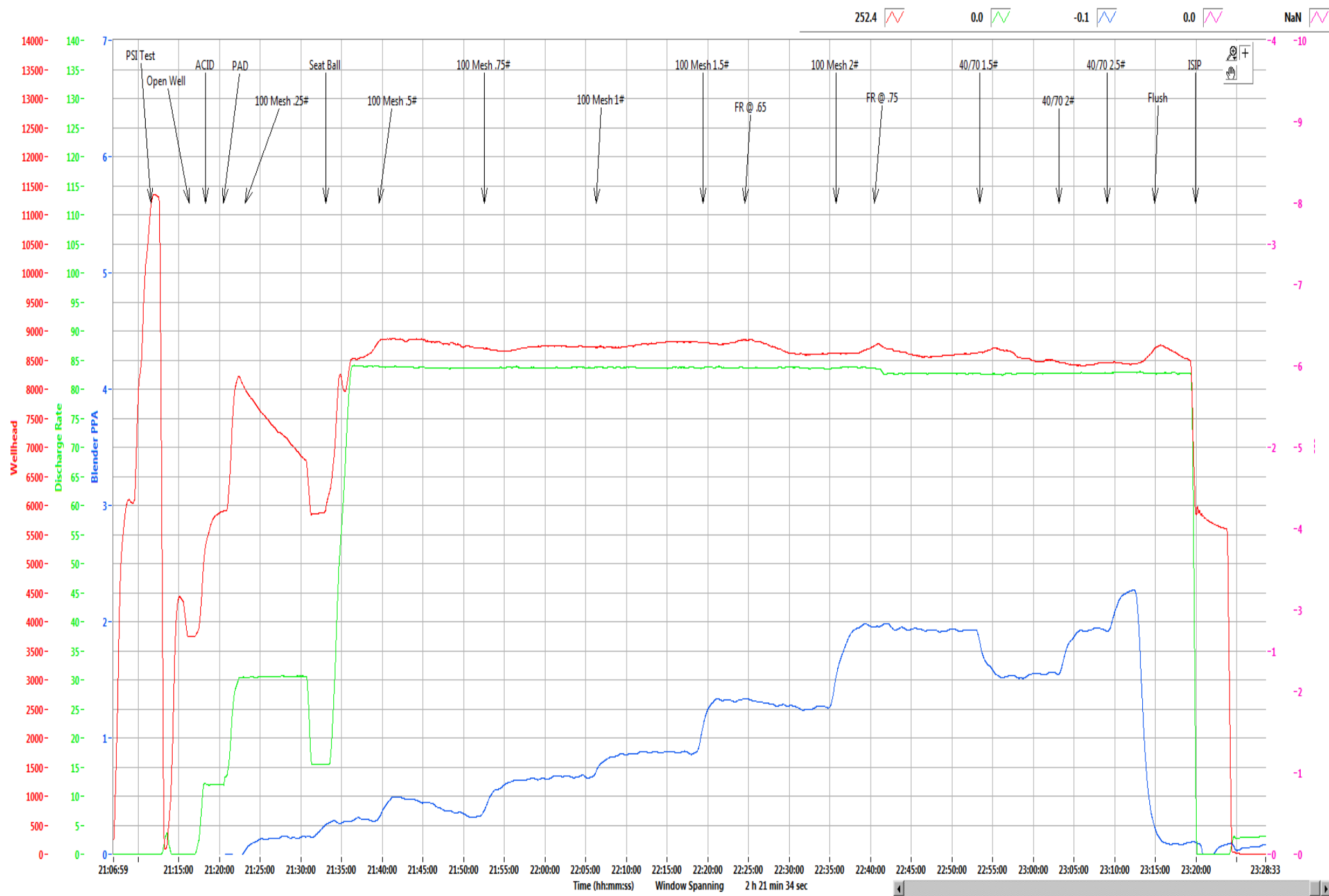
Total No Discount \$ 60,280.70
 25% Discount Applied \$ 15,070.18
 Net Stage Total \$ 45,210.53

(Print Name) E Boone Customer Signature E Boone



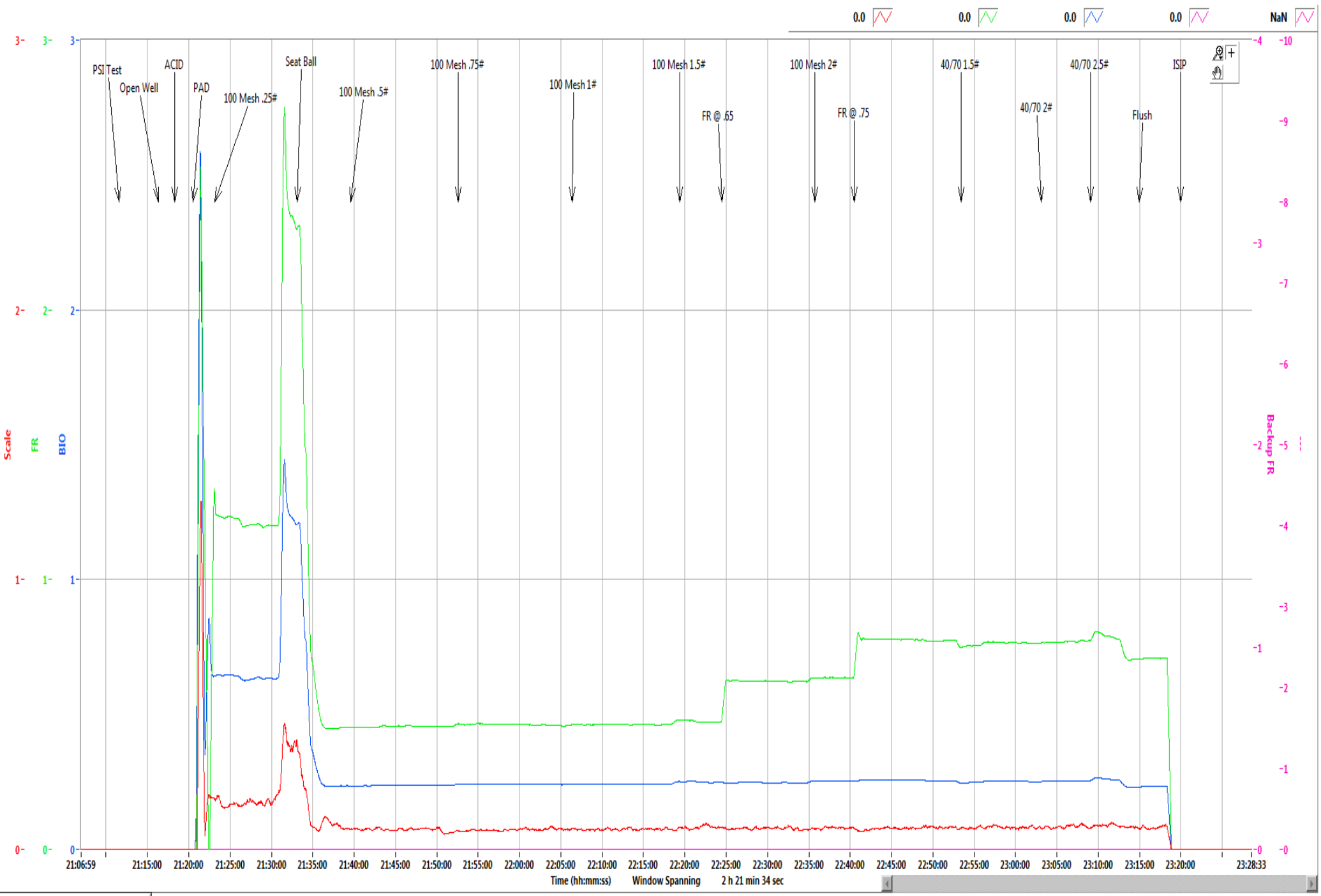
NNE
Boggess 1H
Stage 19
Producers Service Corp.

Post Stage Report
September 26, 2019



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Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	19
Date:	9/26/19
OWP (psi):	3,741
Starting Time	9:16 PM
Ending Time	11:19 PM
Pump Time (hr:min)	02:03
Swap Time (hr:min)	01:04
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,300
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,678
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,929
Displacement (psi)	8,728
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,543
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)	8,721
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	501
Pad (bbls)	69
Treatment (bbls)	8,293
Displacement (bbls)	383
(Acid Included) Total (bbls)	8,745
Dirty Job Total (bbls)	9,158
100 Mesh	300,260
40/70	100,270
Total Proppant (lbs)	400,530
Total Proppant %	100.1%

CHEMICALS

FR 9800	223
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 #: 23112
 Date: 9/26/2019
 Well Name: Boggest 1H
 Stage No.: 19

State: WV
 County: Monongahela
 Operator: Moon/Tilton
 PO/AFE: 100343

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	3,002.60	CWT	\$ 5.50	\$ 16,514.30
SAND 40/70	40/70 white	1,002.70	CWT	\$ 5.75	\$ 5,765.53
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	223	GAL	\$ 17.75	\$ 3,958.25
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		200.265	TON	\$ 55.00	\$ 11,014.58
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 60,164.65
				25% Discount Applied	\$ 15,041.16
				Net Stage Total	\$ 45,123.49

(Print Name) Customer Rep: MIKE INMAN

Customer Signature: 

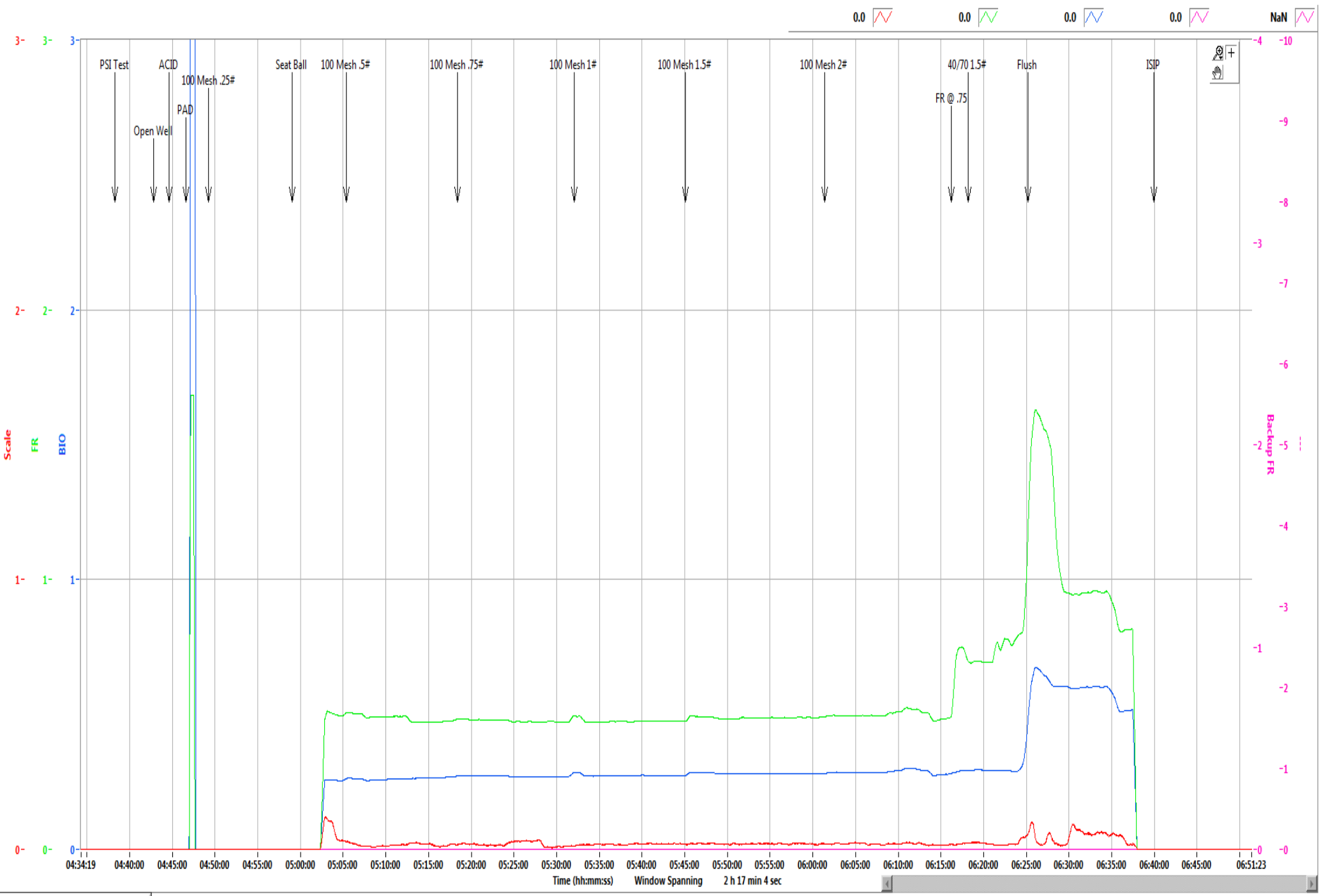


NNE
Boggess 1H
Stage 20
Producers Service Corp.

Post Stage Report
September 27, 2019



Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	20
Date:	9/27/19
OWP (psi):	4,011
Starting Time	4:42 AM
Ending Time	6:39 AM
Pump Time (hr:min)	01:57
Swap Time (hr:min)	00:33
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,070
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,737
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	11,004
Displacement (psi)	8,310
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,902
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)	7,673
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	413
Pad (bbls)	64
Treatment (bbls)	7,082
Displacement (bbls)	549
(Acid Included) Total (bbls)	7,697
Dirty Job Total (bbls)	7,993
100 Mesh	308,420
40/70	29,260
Total Proppant (lbs)	337,680
Total Proppant %	84.4%

CHEMICALS

FR 9800	180
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 #: 23114
 Date: 9/27/2019
 Well Name: Bogges 1H
 Stage No.: 20

State: WV
 County: Monongahela
 Operator: Brad/Joe
 PO/AFE: 100343

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	3,084.20	CWT	\$ 5.50	\$ 16,963.10
SAND 40/70	40/70 white	292.60	CWT	\$ 5.75	\$ 1,682.45
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	180	GAL	\$ 17.75	\$ 3,195.00
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		168.84	TON	\$ 55.00	\$ 9,286.20
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 53,958.75
				25% Discount Applied	\$ 13,489.69
				Net Stage Total	\$ 40,469.06

(Print Name)
 Customer Rep:

E. Boone

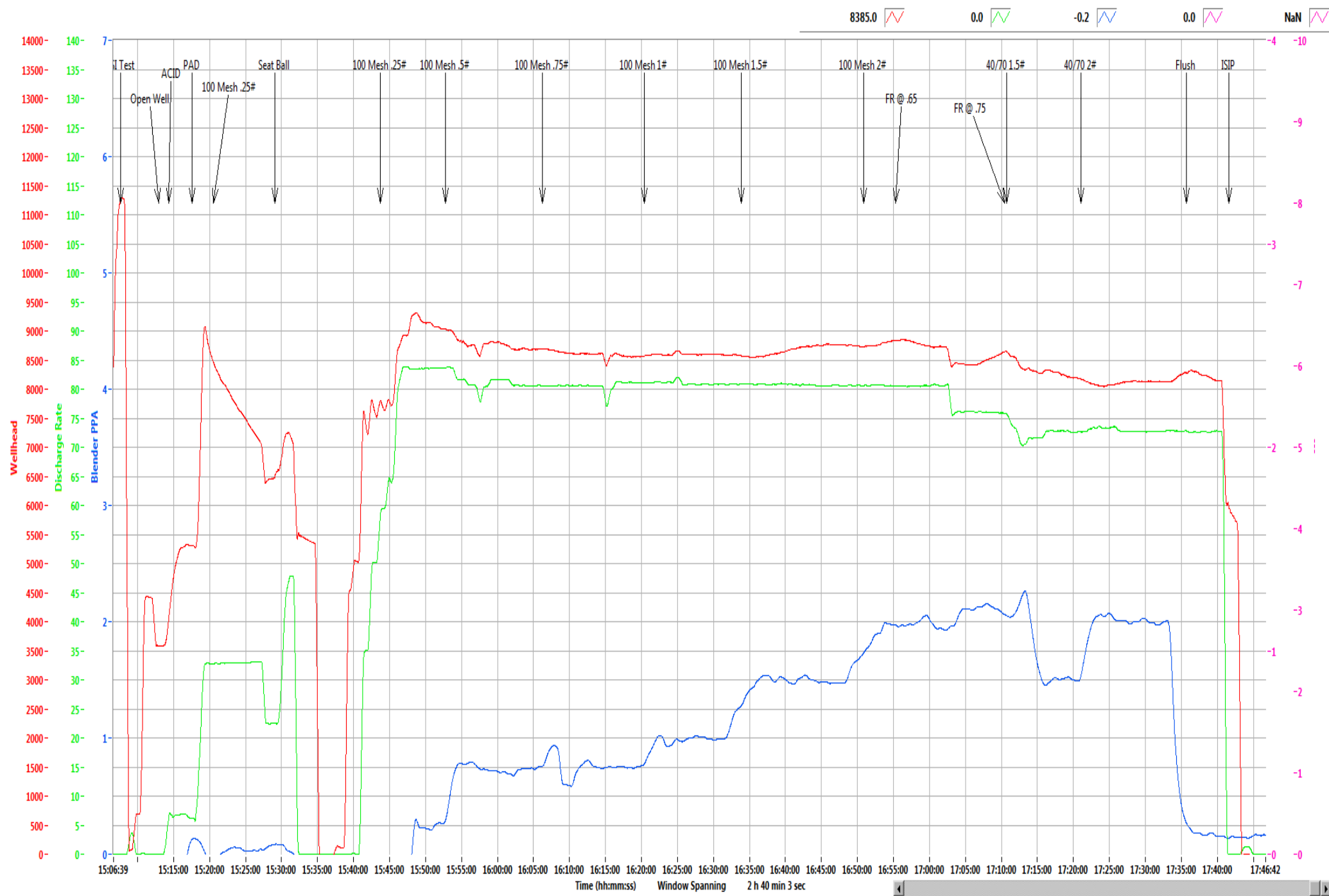
Customer Signature:

E. Boone

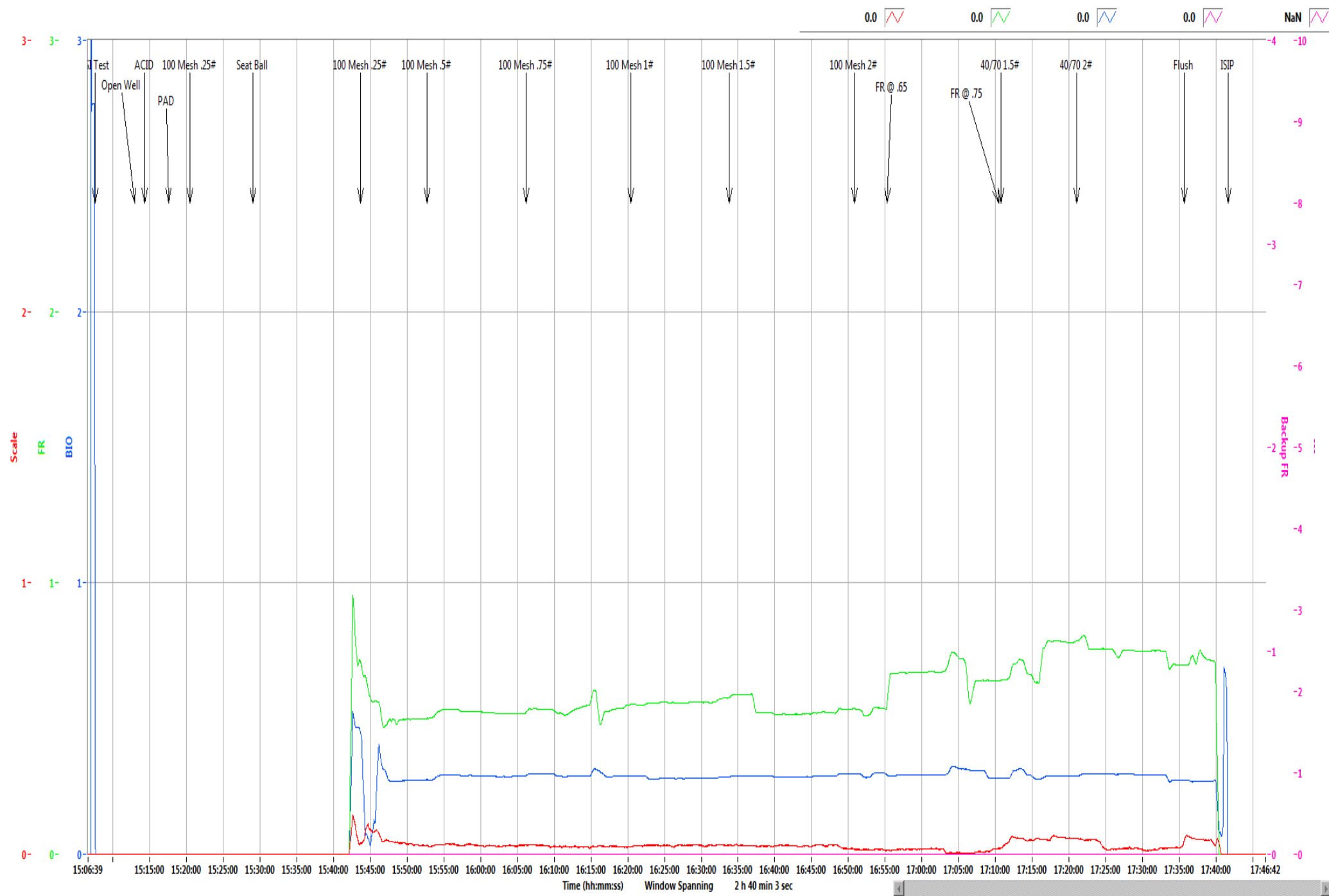


NNE
Boggess 1H
Stage 21
Producers Service Corp.

Post Stage Report
September 27, 2019



Refresh Graph



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Boggess Pad**1H**

Stage	21
Date:	5/21/19
OWP (psi):	3,591
Starting Time	3:12 PM
Ending Time	5:41 PM
Pump Time (hr:min)	02:29
Swap Time (hr:min)	02:45
Starting # Pumps	17
Finishing # Pumps	14
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,769
Average Treating Rate (bbl/min)	79
Average Treating Pressure (psi)	8,595
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	9,358
Displacement (psi)	8,290
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	6,107
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)	9,340
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	467
Pad (bbls)	71
Treatment (bbls)	8,940
Displacement (bbls)	372
(Acid Included) Total (bbls)	9,388
Dirty Job Total (bbls)	9,759
100 Mesh	300,040
40/70	99,980
Total Proppant (lbs)	400,020
Total Proppant %	100.0%

CHEMICALS

FR 9800	226
Biocide	99
Scale	21

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




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

Invoice #: 23116
 Date: 9/27/2019
 Well Name: Bogges 1H
 Stage No.: 21

State: WV
 County: Monongahela
 Operator: Brad/Joe
 PO/AFE: 100343

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	3,000.40	CWT	\$ 5.50	\$ 16,502.20
SAND 40/70	40/70 white	999.80	CWT	\$ 5.75	\$ 5,748.85
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	226	GAL	\$ 17.75	\$ 4,011.50
BIOC11219A	Biocide @ 0.25 GPT	99	GAL	\$ 16.00	\$ 1,584.00
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		200.01	TON	\$ 55.00	\$ 11,000.55
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 61,623.10
				25% Discount Applied	\$ 15,405.78
				Net Stage Total	\$ 46,217.33

(Print Name) Customer Rep: Mike Inman Customer Signature: 

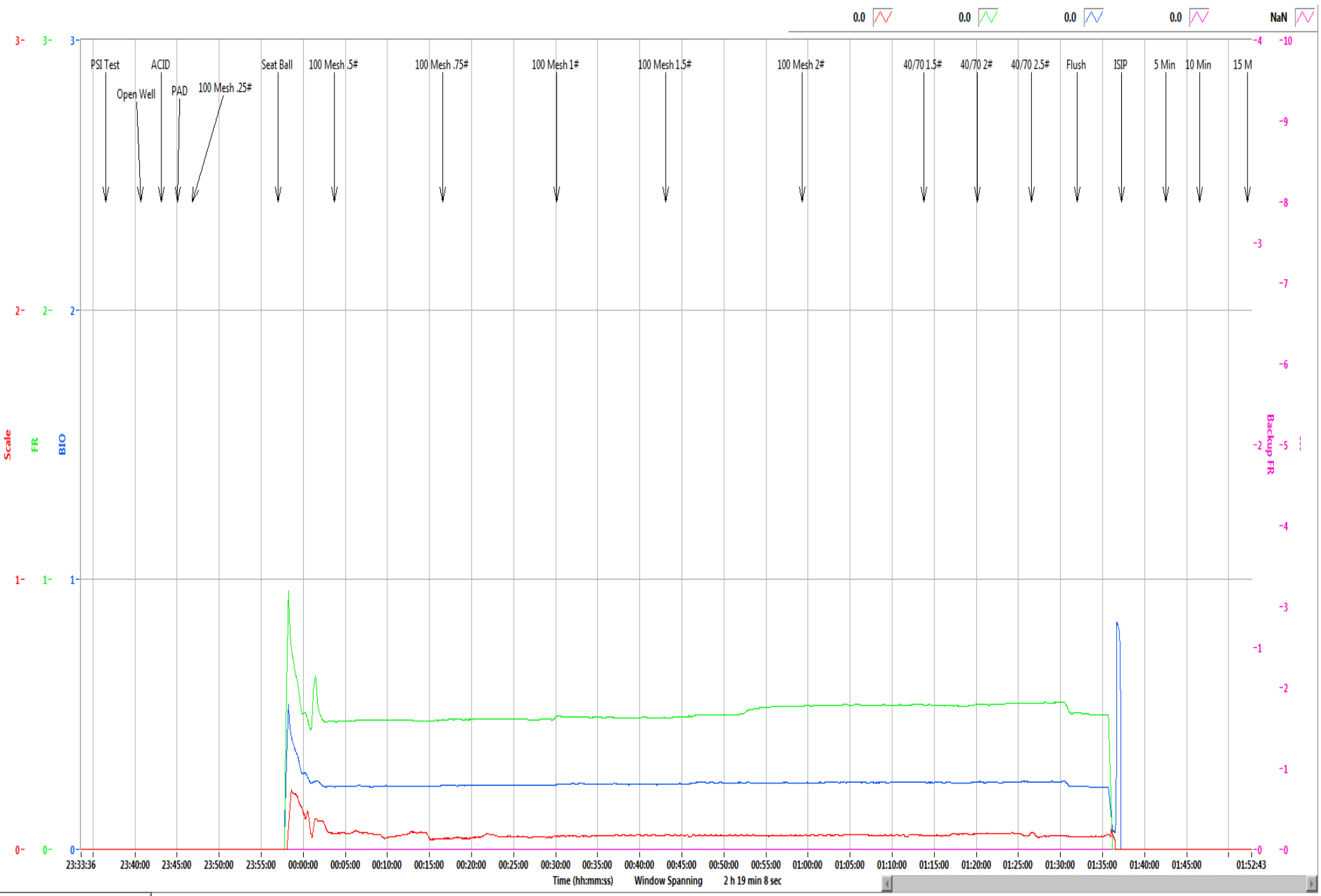


NNE
Boggess 1H
Stage 22
Producers Service Corp.

Post Stage Report
September 28, 2019



Refresh Graph



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Bogges Pad 1H

Stage	22
Date:	9/28/19
OWP (psi):	4,032
Starting Time	11:36 PM
Ending Time	1:52 AM
Pump Time (hr:min)	02:16
Swap Time (hr:min)	00:44
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,521
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,865
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,061
Displacement (psi)	8,820
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,630
Final FG (psi/ft)	1.13
5 Minute Leakoff Pressure (psi)	5,496
5 Minute Leakoff Rate (psi/min)	27
10 Minute Leakoff Pressure (psi)	5,389
10 Minute Leakoff Rate (psi/min)	24
15 Minute Leakoff Pressure (psi)	5,290
15 Minute Leakoff Rate (psi/min)	23

Fluids & Proppant

Slickwater (bbls)	8,263
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	375
Pad (bbls)	45
Treatment (bbls)	7,823
Displacement (bbls)	376
(Acid Included) Total (bbls)	8,287
Dirty Job Total (bbls)	8,636
100 Mesh	300,060
40/70	99,840
Total Proppant (lbs)	399,900
Total Proppant %	100.0%

CHEMICALS

FR 9800	175
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 #: 23118
 Date: 9/28/2019
 Well Name: Bogges 1H
 Stage No.: 22

State: WV
 County: Monongahela
 Operator: Jeremy T/Jeremy M
 PO/AFE: 100343

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	3,000.60	CWT	\$ 5.50	\$ 16,503.30
SAND 40/70	40/70 white	998.40	CWT	\$ 5.75	\$ 5,740.80
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	175	GAL	\$ 17.75	\$ 3,106.25
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		199.95	TON	\$ 55.00	\$ 10,997.25
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 59,179.60
				25% Discount Applied	\$ 14,794.90
				Net Stage Total	\$ 44,384.70

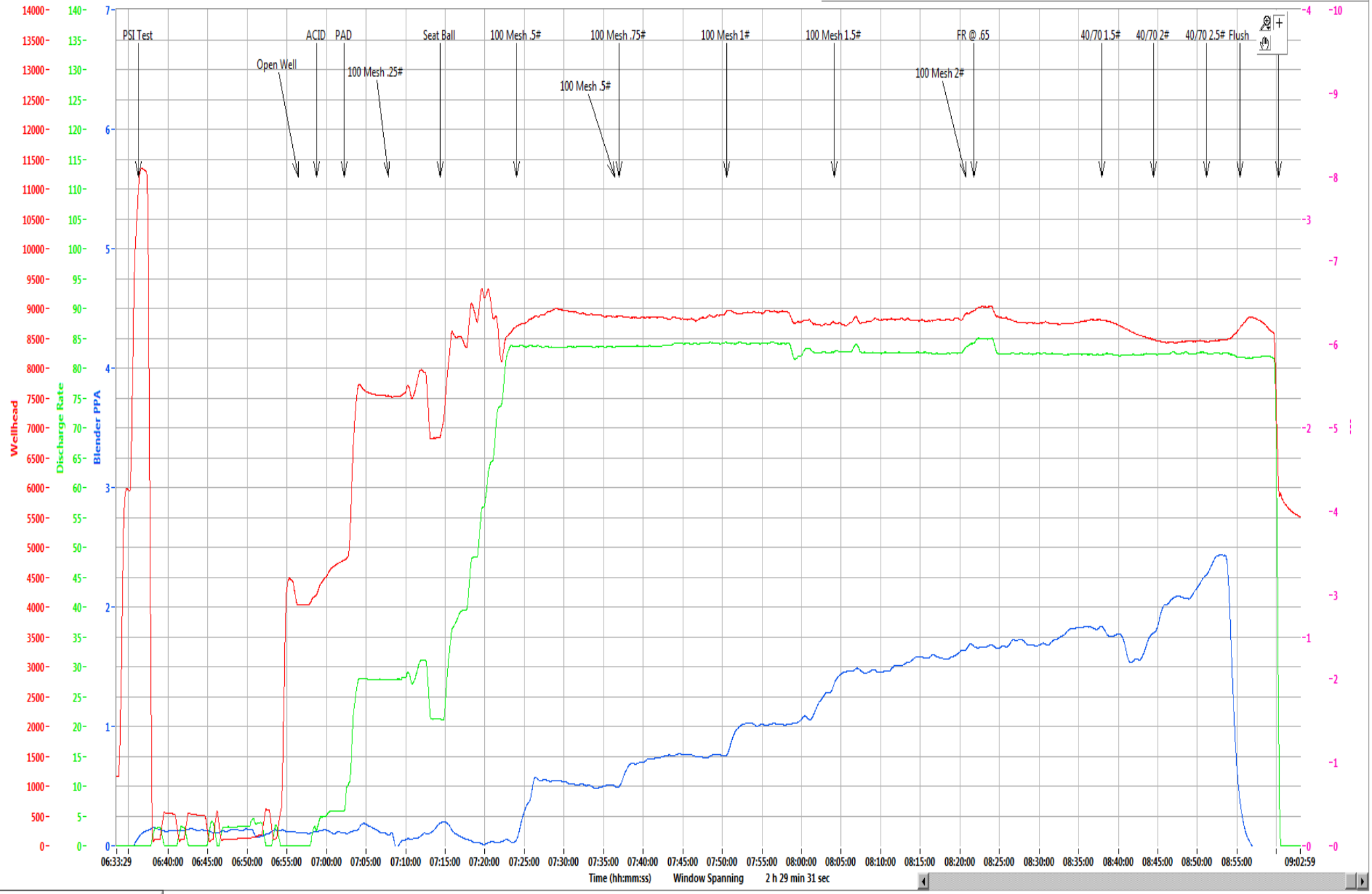
(Print Name) Mike Inman Customer Signature: 



NNE
Boggess 1H
Stage 23
Producers Service Corp.

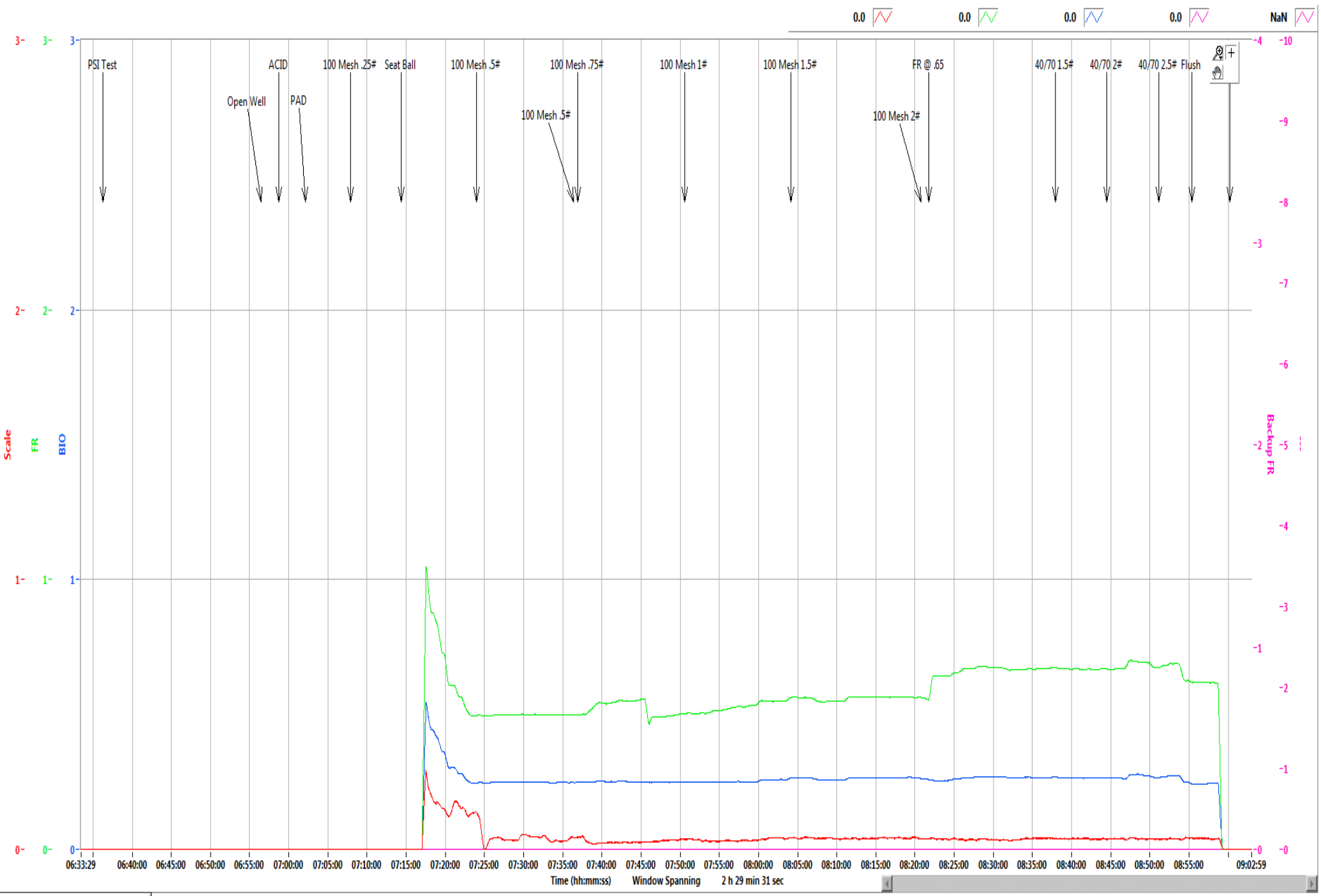
Post Stage Report
September 28, 2019

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Time (hh:mm:ss) Window Spanning 2 h 29 min 31 sec

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Bogges Pad	1H
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Stage	23
Date:	9/28/19
OWP (psi):	4,042
Starting Time	6:56 AM
Ending Time	9:00 AM
Pump Time (hr:min)	02:04
Swap Time (hr:min)	02:09
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,177
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,785
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,431
Displacement (psi)	8,683
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,774
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)	8,466
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	385
Pad (bbls)	145
Treatment (bbls)	7,987
Displacement (bbls)	377
(Acid Included) Total (bbls)	8,514
Dirty Job Total (bbls)	8,832
100 Mesh	301,320
40/70	100,780
Total Proppant (lbs)	402,100
Total Proppant %	100.5%

CHEMICALS

FR 9800	204
Biocide	94
Scale	19

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



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

Invoice #: 23120
 Date: 9/28/2019
 Well Name: Bogges 1H
 Stage No.: 23

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100343

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	3,013.20	CWT	\$ 5.50	\$ 16,572.60
SAND 40/70	40/70 white	1,007.80	CWT	\$ 5.75	\$ 5,794.85
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	204	GAL	\$ 17.75	\$ 3,621.00
BIOC11219A	Biocide @ 0.25 GPT	94	GAL	\$ 16.00	\$ 1,504.00
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		201.05	TON	\$ 55.00	\$ 11,057.75
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 61,294.20
				25% Discount Applied	\$ 15,323.55
				Net Stage Total	\$ 45,970.65

(Print Name)

Customer Rep: E Boone

Customer Signature: E Boone

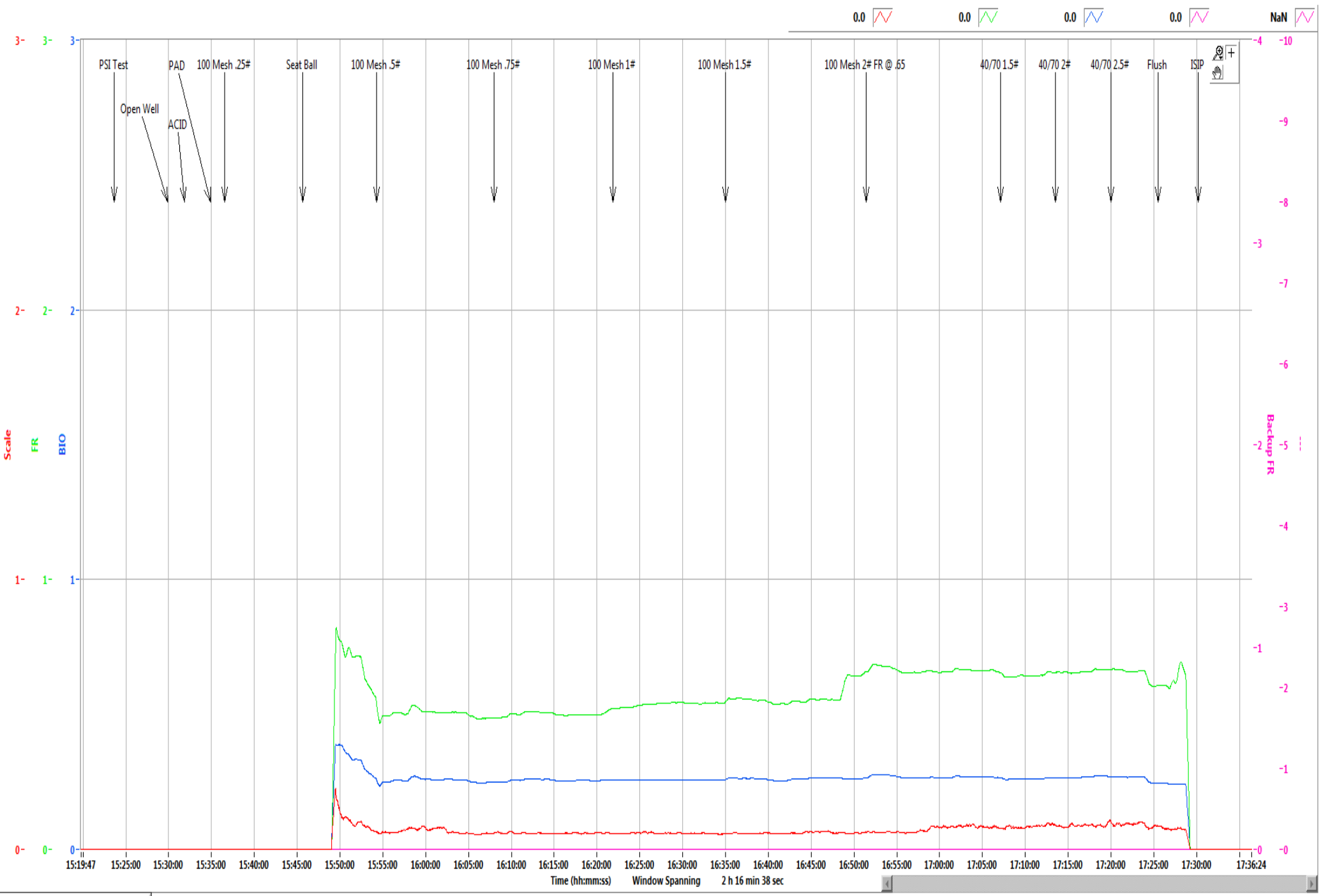


NNE
Boggess 1H
Stage 24
Producers Service Corp.

Post Stage Report
September 28, 2019



Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	24
Date:	9/28/19
OWP (psi):	3,589
Starting Time	3:29 PM
Ending Time	5:30 PM
Pump Time (hr:min)	02:01
Swap Time (hr:min)	02:52
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,886
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,613
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	10,134
Displacement (psi)	8,410
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)	8,335
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	409
Pad (bbls)	39
Treatment (bbls)	7,968
Displacement (bbls)	370
(Acid Included) Total (bbls)	8,383
Dirty Job Total (bbls)	8,708
100 Mesh	298,520
40/70	105,410
Total Proppant (lbs)	403,930
Total Proppant %	101.0%

CHEMICALS

FR 9800	197
Biocide	92
Scale	23

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



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

Invoice #: 23122
 Date: 9/28/2019
 Well Name: Bogges 1H ✓
 Stage No.: 24 ✓

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100343

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	2,985.20	CWT	\$ 5.50	\$ 16,418.60
SAND 40/70	40/70 white	1,054.10	CWT	\$ 5.75	\$ 6,061.08
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	197	✓ GAL	\$ 17.75	\$ 3,496.75
BIOC11219A	Biocide @ 0.25 GPT	92	✓ GAL	\$ 16.00	\$ 1,472.00
SCAL16846A	Scale Control @ 0.05 GPT	23	✓ GAL	\$ 16.00	\$ 368.00
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		201.965	✓ TON	\$ 55.00	\$ 11,108.08
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 61,364.50
				25% Discount Applied	\$ 15,341.13
				Net Stage Total	\$ 46,023.38

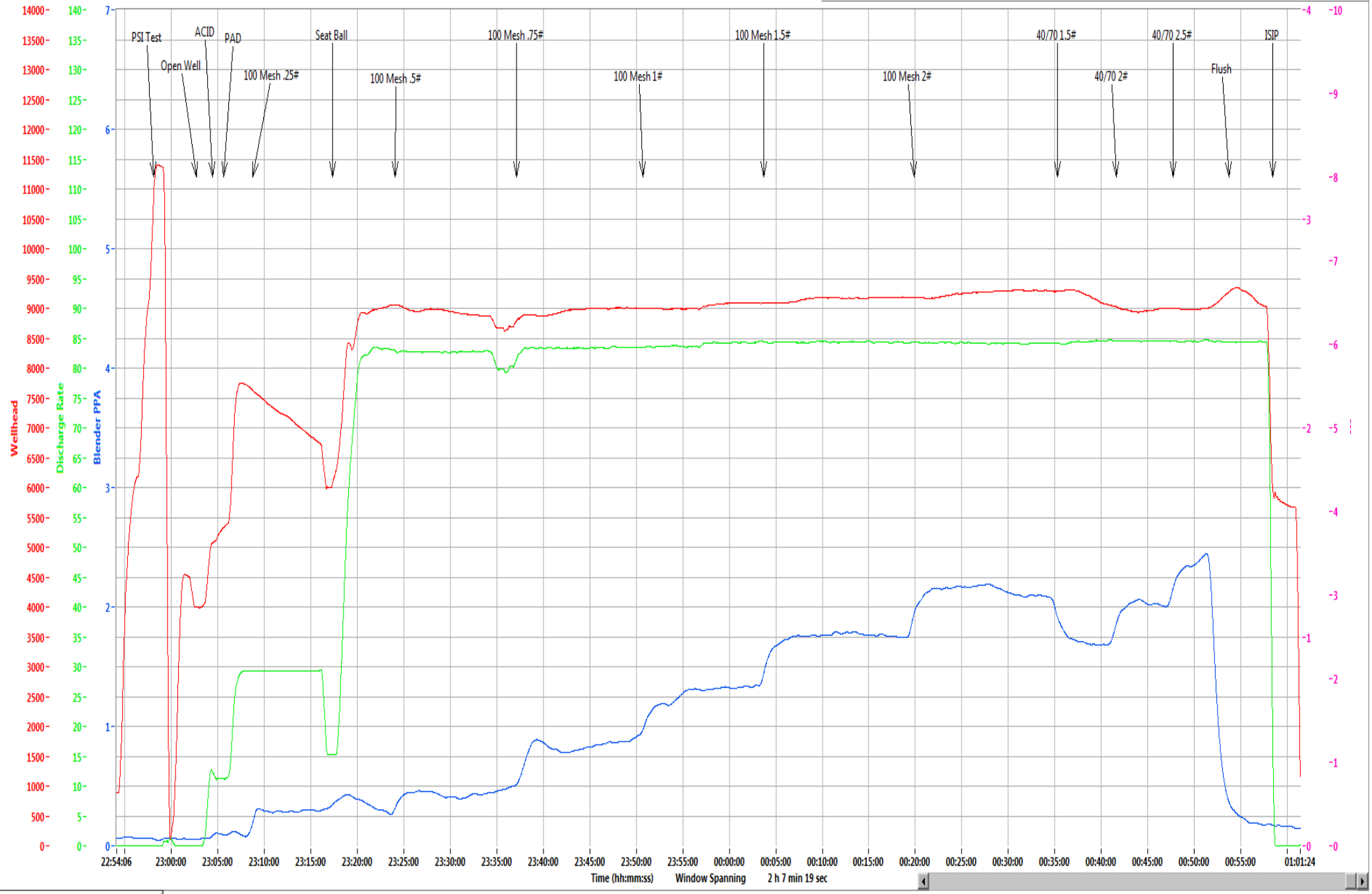
(Print Name) Customer Rep: MIKE JARMAN Customer Signature: 



NNE
Boggess 1H
Stage 25
Producers Service Corp.

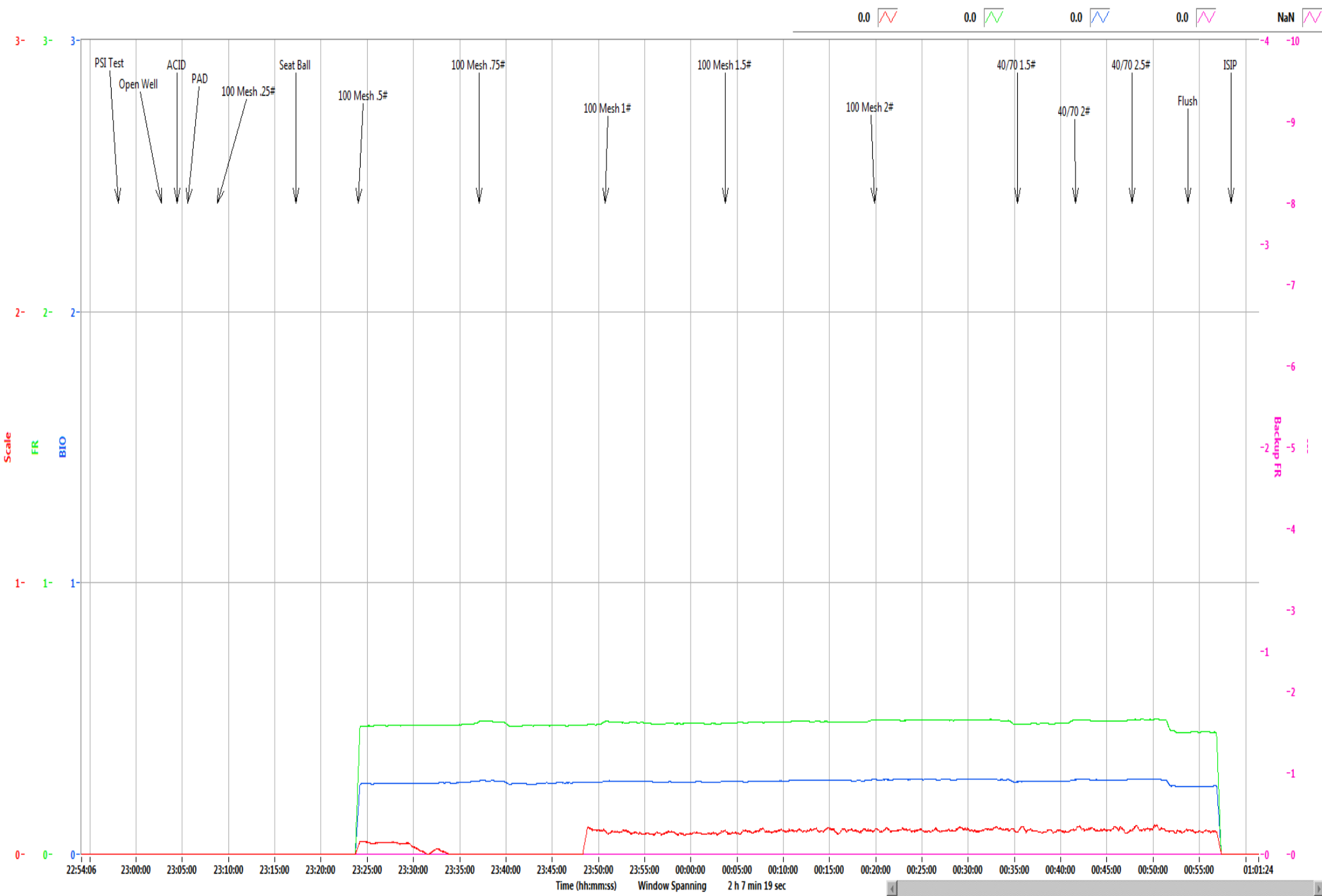
Post Stage Report
September 29, 2019

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Time (hh:mm:ss) Window Spanning 2 h 7 min 19 sec

Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	25
Date:	9/28/19
OWP (psi):	3,998
Starting Time	11:02 PM
Ending Time	12:58 AM
Pump Time (hr:min)	01:56
Swap Time (hr:min)	02:29
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,345
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,925
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,351
Displacement (psi)	9,253
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,694
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)	8,387
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	365
Pad (bbls)	78
Treatment (bbls)	7,949
Displacement (bbls)	371
(Acid Included) Total (bbls)	8,399
Dirty Job Total (bbls)	8,716
100 Mesh	300,160
40/70	100,040
Total Proppant (lbs)	400,200
Total Proppant %	100.1%

CHEMICALS

FR 9800	176
Biocide	88
Scale	20

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



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

Invoice #: 23124
 Date: 9/29/2019
 Well Name: Boggess 1H
 Stage No.: 25

State: WV
 County: Monongahela
 Operator: Tilton/Moon
 PO/AFE: 100343

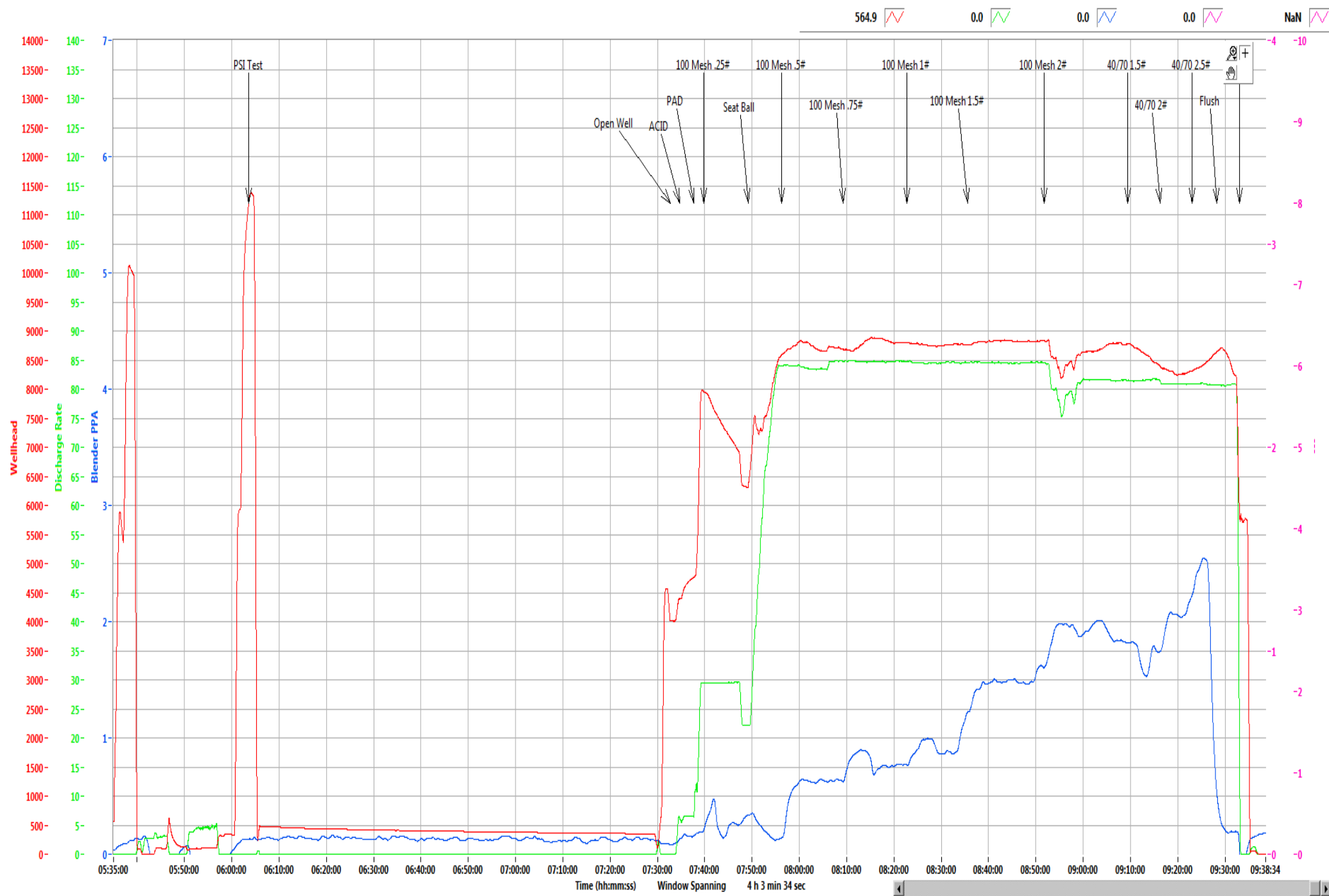
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,001.60	CWT	\$ 5.50	\$ 16,508.80
SAND 40/70	40/70 white	1,000.40	CWT	\$ 5.75	\$ 5,752.30
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	176	GAL	\$ 17.75	\$ 3,124.00
BIOC11219A	Biocide @ 0.25 GPT	88	GAL	\$ 16.00	\$ 1,408.00
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		200.1	TON	\$ 55.00	\$ 11,005.50
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 58,578.60
				25% Discount Applied	\$ 14,644.65
				Net Stage Total	\$ 43,933.95

(Print Name) Customer Rep: Mike Tilton Customer Signature: 

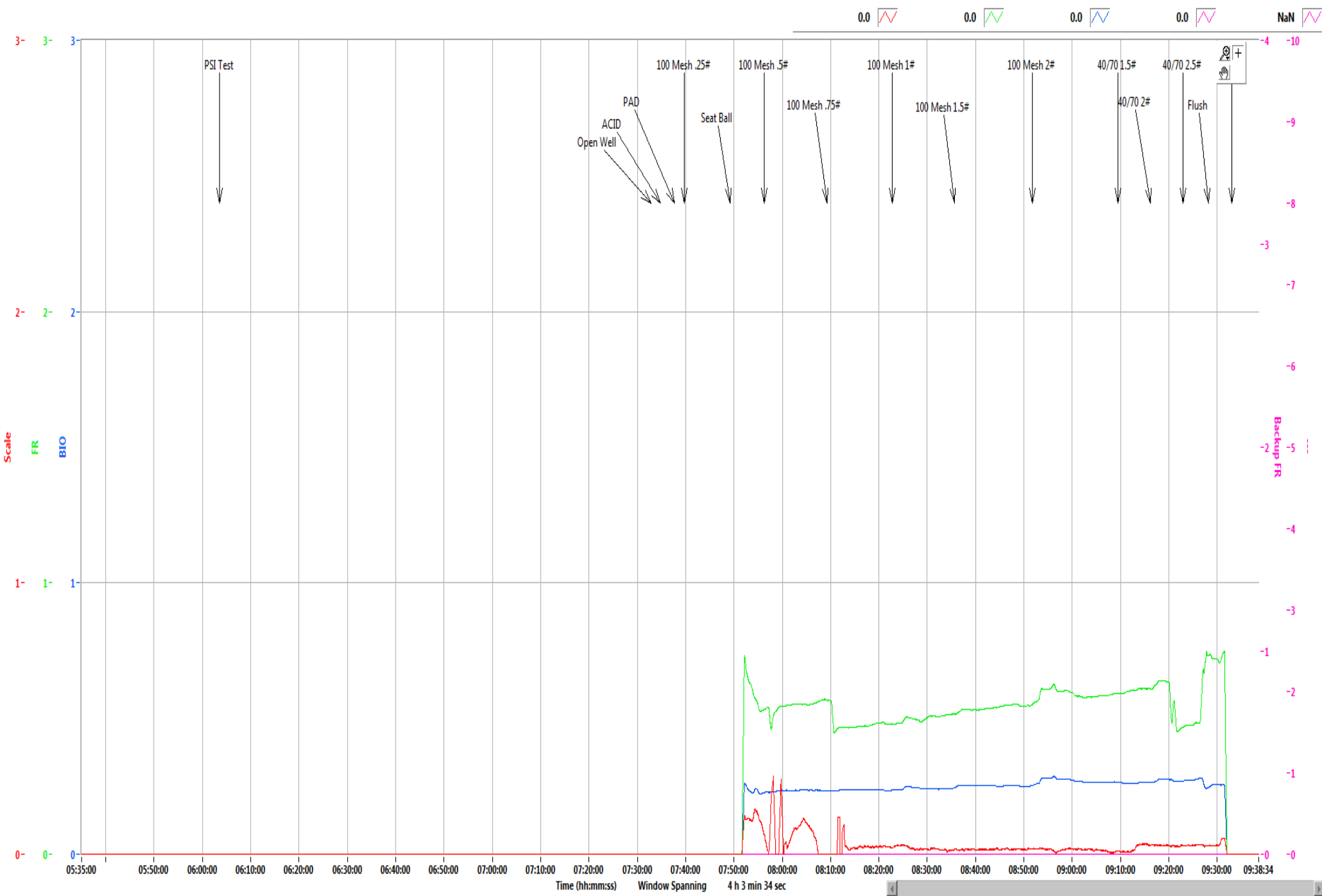


NNE
Boggess 1H
Stage 26
Producers Service Corp.

Post Stage Report
September 29, 2019



Refresh Graph



Boggess Pad**1H**

Stage	26
Date:	9/29/19
OWP (psi):	4,005
Starting Time	7:32 AM
Ending Time	9:32 AM
Pump Time (hr:min)	02:00
Swap Time (hr:min)	02:59
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,669
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,680
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,927
Displacement (psi)	8,668
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,602
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)	8,388
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	365
Pad (bbls)	43
Treatment (bbls)	8,029
Displacement (bbls)	357
(Acid Included) Total (bbls)	8,436
Dirty Job Total (bbls)	8,769
100 Mesh	300,220
40/70	99,760
Total Proppant (lbs)	399,980
Total Proppant %	100.0%

CHEMICALS

FR 9800	190
Biocide	95
Scale	20

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



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

Invoice #: 23126
 Date: 9/29/2019
 Well Name: Bogges 1H
 Stage No.: 26

State: WV
 County: Monongahela
 Operator: Brad/Joe
 PO/AFE: 100343

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	3,002.20	CWT	\$ 5.50	\$ 16,512.10
SAND 40/70	40/70 white	997.60	CWT	\$ 5.75	\$ 5,736.20
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	190	GAL	\$ 17.75	\$ 3,372.50
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
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		199.99	TON	\$ 55.00	\$ 10,999.45
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 60,900.25
				25% Discount Applied	\$ 15,225.06
				Net Stage Total	\$ 45,675.19

(Print Name)
 Customer Rep:

E. Boone

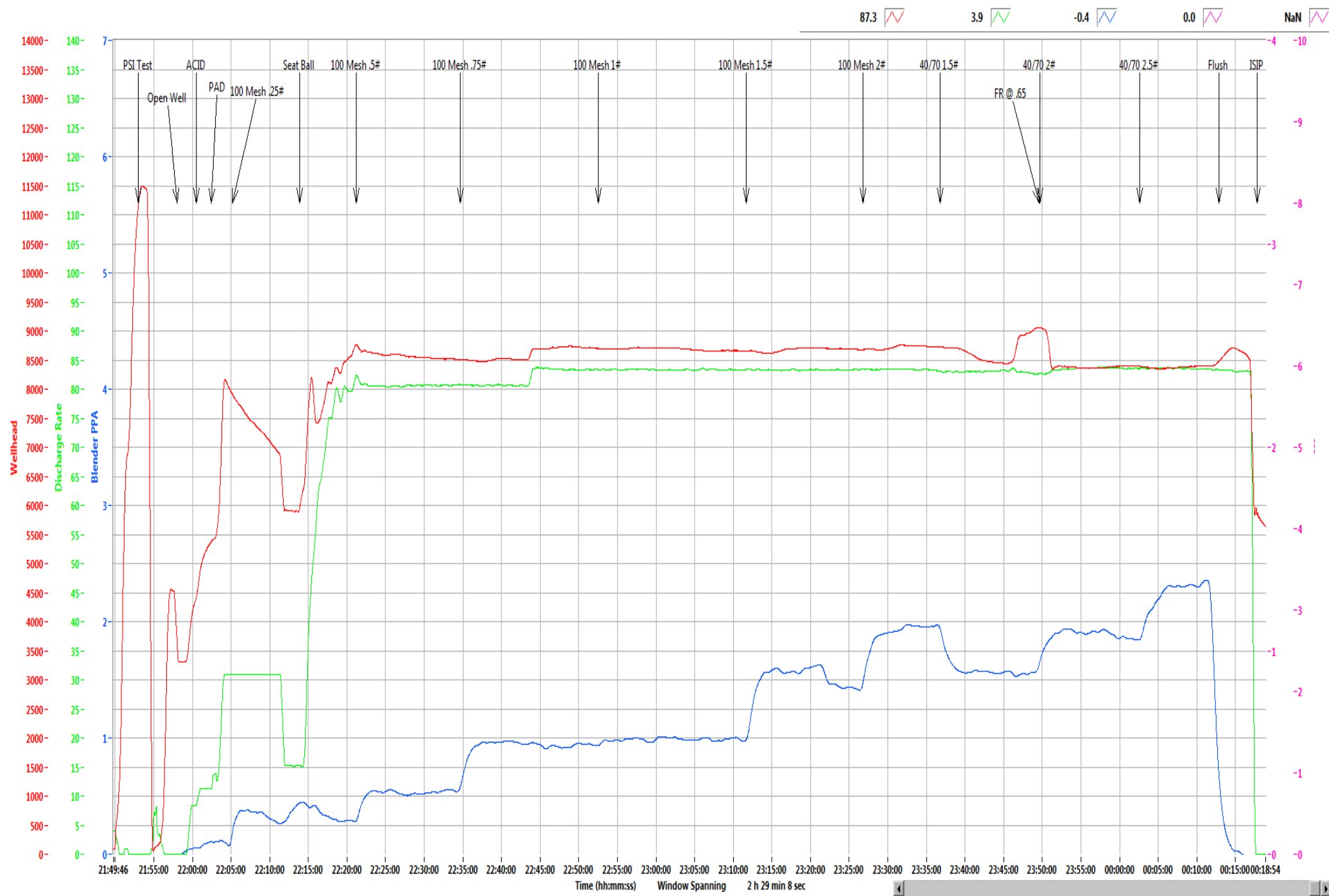
Customer Signature:

E. Boone

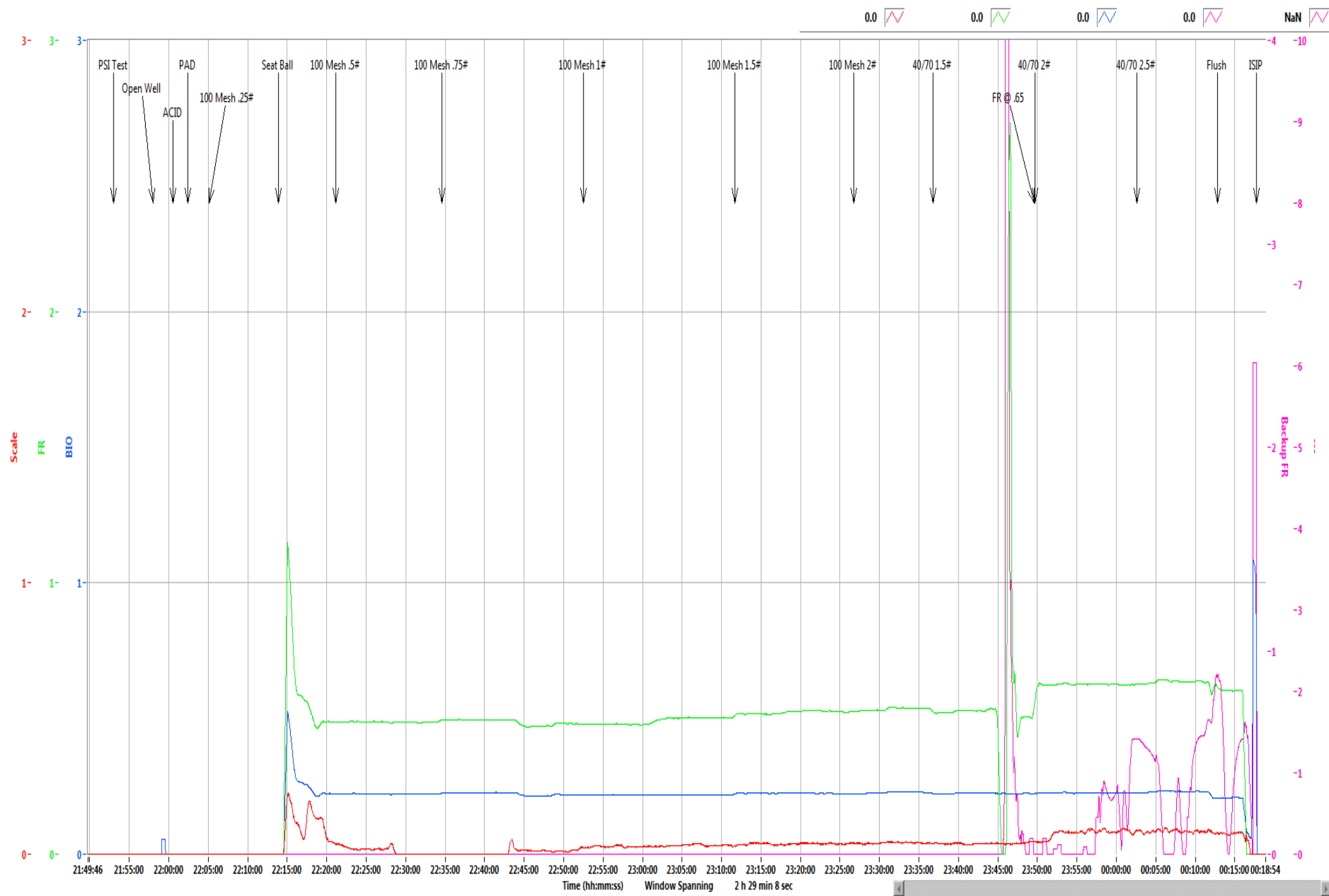


NNE
Boggess 1H
Stage 27
Producers Service Corp.

Post Stage Report
September 30, 2019



Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	27
Date:	9/29/19
OWP (psi):	3,285
Starting Time	9:53 PM
Ending Time	12:17 AM
Pump Time (hr:min)	02:24
Swap Time (hr:min)	08:54
Starting # Pumps	16
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,339
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,600
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,084
Displacement (psi)	8,466
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,718
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)	10,013
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	359
Pad (bbls)	71
Treatment (bbls)	9,570
Displacement (bbls)	351
(Acid Included) Total (bbls)	10,037
Dirty Job Total (bbls)	10,451
100 Mesh	301,300
40/70	201,180
Total Proppant (lbs)	502,480
Total Proppant %	100.5%

CHEMICALS

FR 9800	220
Biocide	105
Scale	22

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




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

Invoice #: 23128
 Date: 9/30/2019
 Well Name: Bogges 1H
 Stage No.: 27

State: WV
 County: Monongahela
 Operator: Jeremy T/Jeremy M
 PO/A/E: 100343

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	3,013.00	CWT	\$ 5.50	\$ 16,571.50
SAND 40/70	40/70 white	2,011.80	CWT	\$ 5.75	\$ 11,567.85
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	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		251.24	TON	\$ 55.00	\$ 13,818.20
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 69,014.55
				25% Discount Applied	\$ 17,253.64
				Net Stage Total	\$ 51,760.91

(Print Name) Mike Inman Customer Signature: 



NNE
Boggess 1H
Stage 28
Producers Service Corp.

Post Stage Report
September 30, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	28
Date:	9/30/19
OWP (psi):	3,940
Starting Time	4:14 AM
Ending Time	6:41 AM
Pump Time (hr:min)	02:27
Swap Time (hr:min)	00:44
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,909
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,360
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,716
Displacement (psi)	8,372
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,726
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)	10,383
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	343
Pad (bbls)	83
Treatment (bbls)	10,327
Displacement (bbls)	390
(Acid Included) Total (bbls)	10,407
Dirty Job Total (bbls)	10,835
100 Mesh	299,360
40/70	198,240
Total Proppant (lbs)	497,600
Total Proppant %	99.5%

CHEMICALS

FR 9800	222
Biocide	105
Scale	25

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



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

Invoice #: 23130
Date: 9/30/2019
Well Name: Bogges' 1H
Stage No.: 28

State: WV
County: Monongahela
Operator: Stetson/Joe/Austin
PO/AFE: 100343

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	1000	GAL	\$ 1.25	\$ 1,250.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	2	GAL	\$ 35.00	\$ 70.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,993.60	CWT	\$ 5.50	\$ 16,464.80
SAND 40/70	40/70 white	1,982.40	CWT	\$ 5.75	\$ 11,398.80
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	222	GAL	\$ 17.75	\$ 3,940.50
BIOC11219A	Biocide @ 0.25 GPT	105	GAL	\$ 16.00	\$ 1,680.00
SCAL16846A	Scale Control @ 0.05 GPT	25	GAL	\$ 16.00	\$ 400.00
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		248.8	TON	\$ 55.00	\$ 13,684.00
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,688.10
				25% Discount Applied	\$ 17,172.03
				Net Stage Total	\$ 51,516.08

(Print Name)

Customer Rep:

PA [Signature]

Customer Signature:

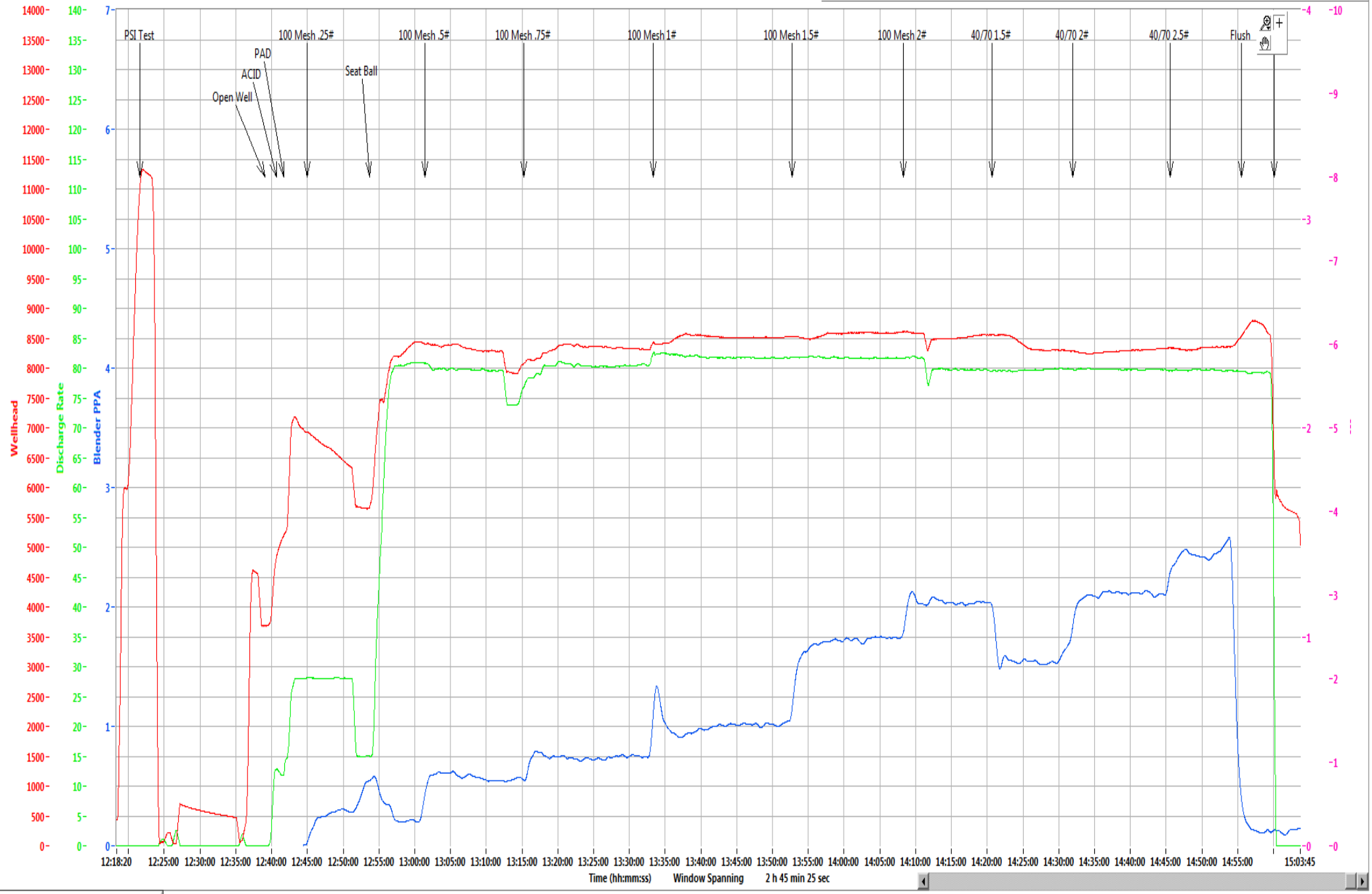
Rob Cowger



NNE
Boggess 1H
Stage 29
Producers Service Corp.

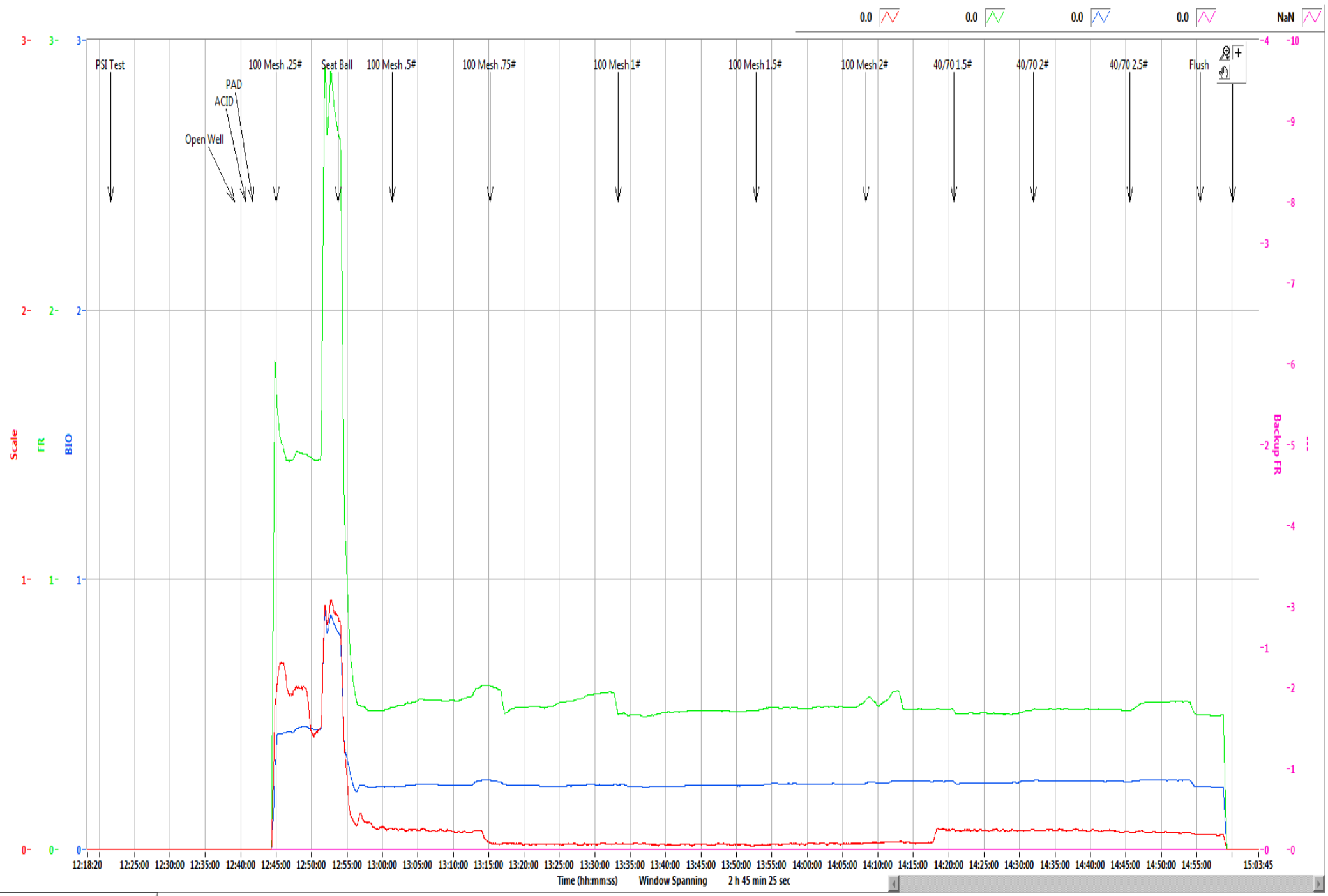
Post Stage Report
September 30, 2019

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Time (hh:mm:ss) Window Spanning 2 h 45 min 25 sec

Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	29
Date:	9/30/19
OWP (psi):	3,675
Starting Time	12:39 PM
Ending Time	3:00 PM
Pump Time (hr:min)	02:21
Swap Time (hr:min)	00:43
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,887
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,405
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,669
Displacement (psi)	8,549
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,000
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)	9,933
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	341
Pad (bbls)	88
Treatment (bbls)	9,510
Displacement (bbls)	340
(Acid Included) Total (bbls)	9,945
Dirty Job Total (bbls)	10,368
100 Mesh	302,220
40/70	200,620
Total Proppant (lbs)	502,840
Total Proppant %	100.6%

CHEMICALS

FR 9800	208
Biocide	102
Scale	23



NNE
Boggess 1H
Stage 30
Producers Service Corp.

Post Stage Report
October 1, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	30
Date:	9/30/19
OWP (psi):	3,439
Starting Time	12:01 AM
Ending Time	1:59 AM
Pump Time (hr:min)	01:58
Swap Time (hr:min)	02:29
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,323
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,685
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,018
Displacement (psi)	9,102
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,419
Final FG (psi/ft)	1.11
5 Minute Leakoff Pressure (psi)	5,184
5 Minute Leakoff Rate (psi/min)	47
10 Minute Leakoff Pressure (psi)	5,032
10 Minute Leakoff Rate (psi/min)	39
15 Minute Leakoff Pressure (psi)	4,975
15 Minute Leakoff Rate (psi/min)	30

Fluids & Proppant

Slickwater (bbls)	8,650
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	338
Pad (bbls)	59
Treatment (bbls)	8,260
Displacement (bbls)	343
(Acid Included) Total (bbls)	8,662
Dirty Job Total (bbls)	9,078
100 Mesh	300,100
40/70	147,760
Total Proppant (lbs)	447,860
Total Proppant %	89.6%

CHEMICALS

FR 9800	188
Biocide	91
Scale	18

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




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

Invoice #: 23134
 Date: 10/1/2019
 Well Name: Bogges 1H
 Stage No.: 30

State: WV
 County: Monongahela
 Operator: Eck/Jeremy
 PO/AFE: 100343

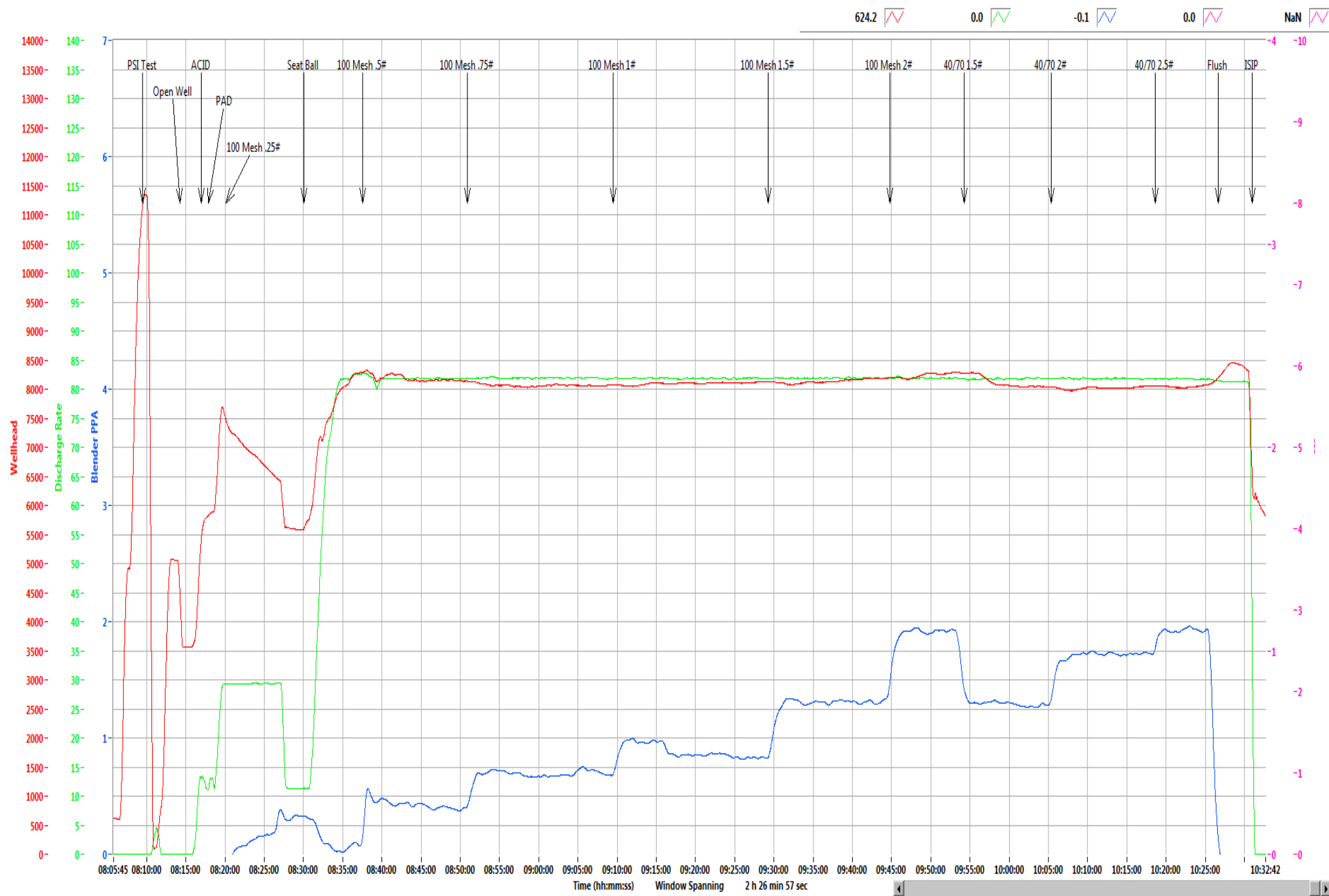
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,001.00	CWT	\$ 5.50	\$ 16,505.50
SAND 40/70	40/70 white	1,477.60	CWT	\$ 5.75	\$ 8,496.20
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	188	GAL	\$ 17.75	\$ 3,337.00
BIOC11219A	Biocide @ 0.25 GPT	91	GAL	\$ 16.00	\$ 1,456.00
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		223.93	TON	\$ 55.00	\$ 12,316.15
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 62,858.85
				25% Discount Applied	\$ 15,714.71
				Net Stage Total	\$ 47,144.14

(Print Name) Mike Innes Customer Signature: 

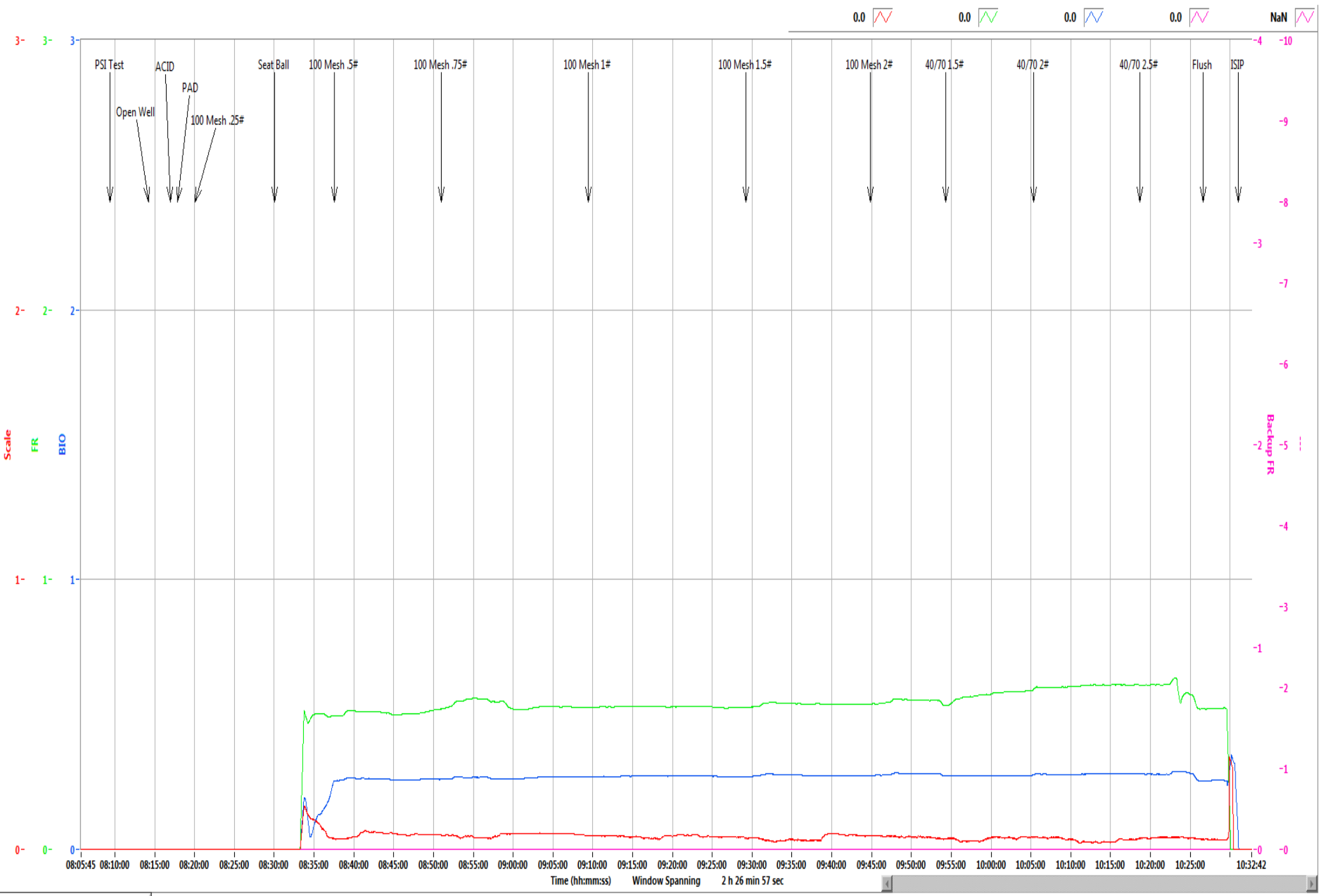


NNE
Bogges 1H
Stage 31
Producers Service Corp.

Post Stage Report
October 1, 2019



Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	31
Date:	10/1/19
OWP (psi):	3,585
Starting Time	8:14 AM
Ending Time	10:31 AM
Pump Time (hr:min)	02:17
Swap Time (hr:min)	01:54
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,760
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,113
Maximum Treating Rate (bbl/min)	83
Maximum Treating Pressure (psi)	8,379
Displacement (psi)	8,245
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,205
Final FG (psi/ft)	1.21
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)	9,575
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	339
Pad (bbls)	49
Treatment (bbls)	9,199
Displacement (bbls)	335
(Acid Included) Total (bbls)	9,587
Dirty Job Total (bbls)	10,050
100 Mesh	295,960
40/70	201,300
Total Proppant (lbs)	497,260
Total Proppant %	99.5%

CHEMICALS

FR 9800	218
Biocide	118
Scale	24

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



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

Invoice #: 23136
Date: 10/1/2019
Well Name: Bogges 1H
Stage No.: 31

State: WV
County: Monongahela
Operator: Stetson/Joe
PO/AFE: 100343

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	2,959.60	CWT	\$ 5.50	\$ 16,277.80
SAND 40/70	40/70 white	2,013.00	CWT	\$ 5.75	\$ 11,574.75
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	218	GAL	\$ 17.75	\$ 3,869.50
BIOC11219A	Biocide @ 0.25 GPT	118	GAL	\$ 16.00	\$ 1,888.00
SCAL16846A	Scale Control @ 0.05 GPT	24	GAL	\$ 16.00	\$ 384.00
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		248.63	TON	\$ 55.00	\$ 13,674.65
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,128.70
				25% Discount Applied	\$ 17,032.18
				Net Stage Total	\$ 51,096.53

(Print Name)

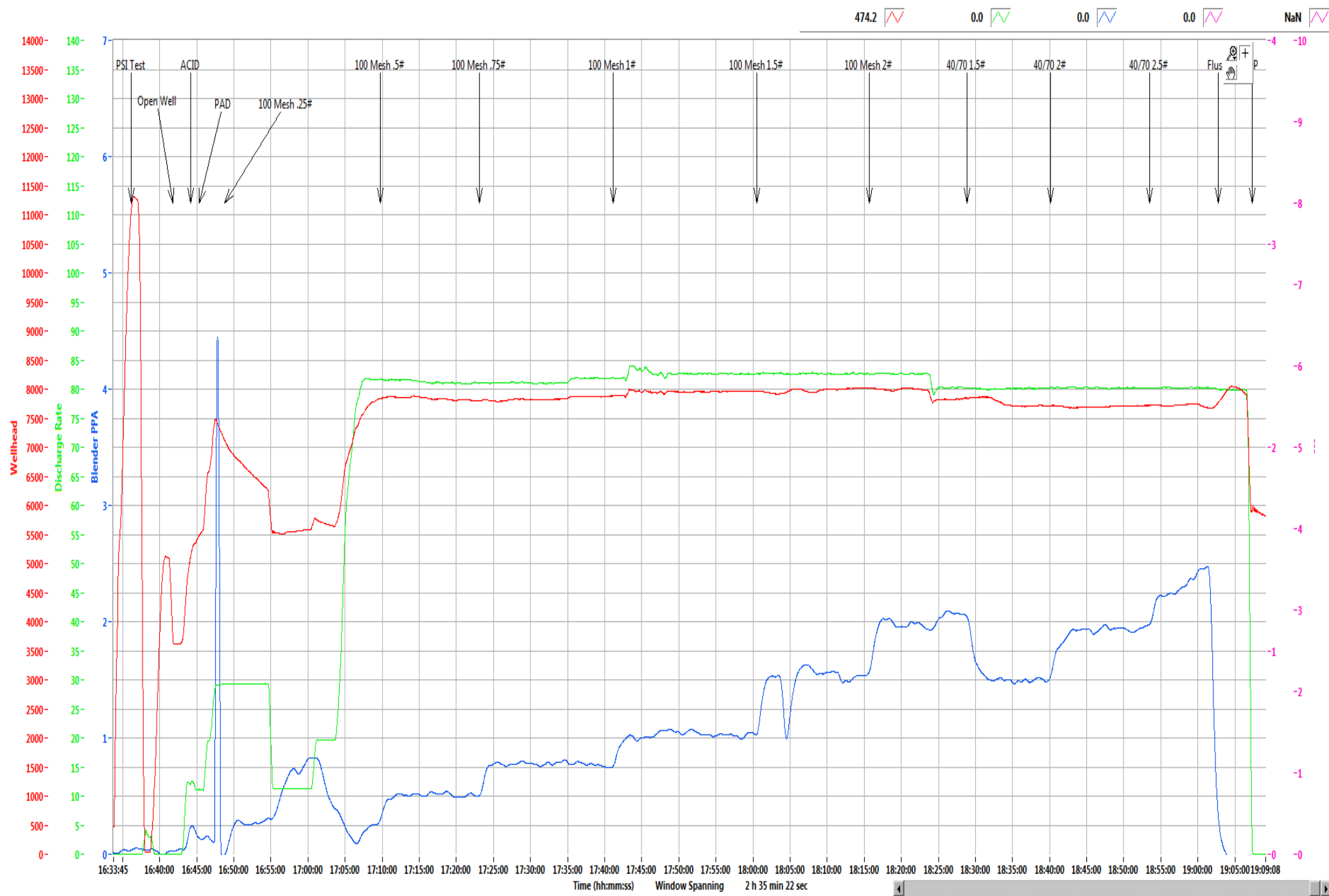
Customer Rep: Rob Louger

Customer Signature: Rob Louger

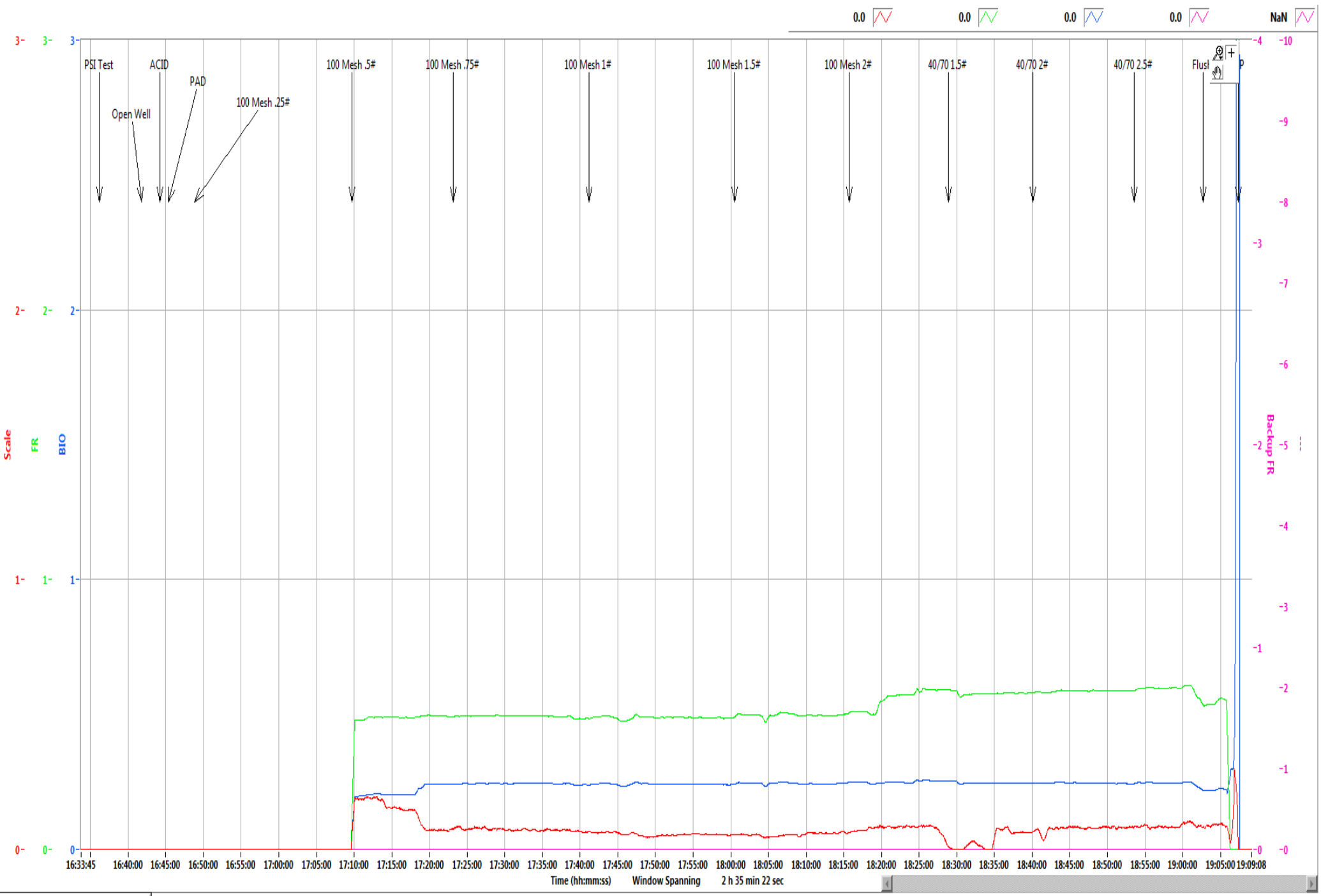


NNE
Boggess 1H
Stage 32
Producers Service Corp.

Post Stage Report
October 1, 2019



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Refresh Graph

Boggess Pad**1H**

Stage	32
Date:	10/1/19
OWP (psi):	3,625
Starting Time	4:41 PM
Ending Time	7:07 PM
Pump Time (hr:min)	02:26
Swap Time (hr:min)	01:46
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,569
Average Treating Rate (bbl/min)	81
Average Treating Pressure (psi)	7,787
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,136
Displacement (psi)	7,787
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	
Final FG (psi/ft)	
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)	9,930
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	312
Pad (bbls)	78
Treatment (bbls)	9,531
Displacement (bbls)	328
(Acid Included) Total (bbls)	9,942
Dirty Job Total (bbls)	10,421
100 Mesh	302,960
40/70	199,480
Total Proppant (lbs)	502,440
Total Proppant %	100.5%

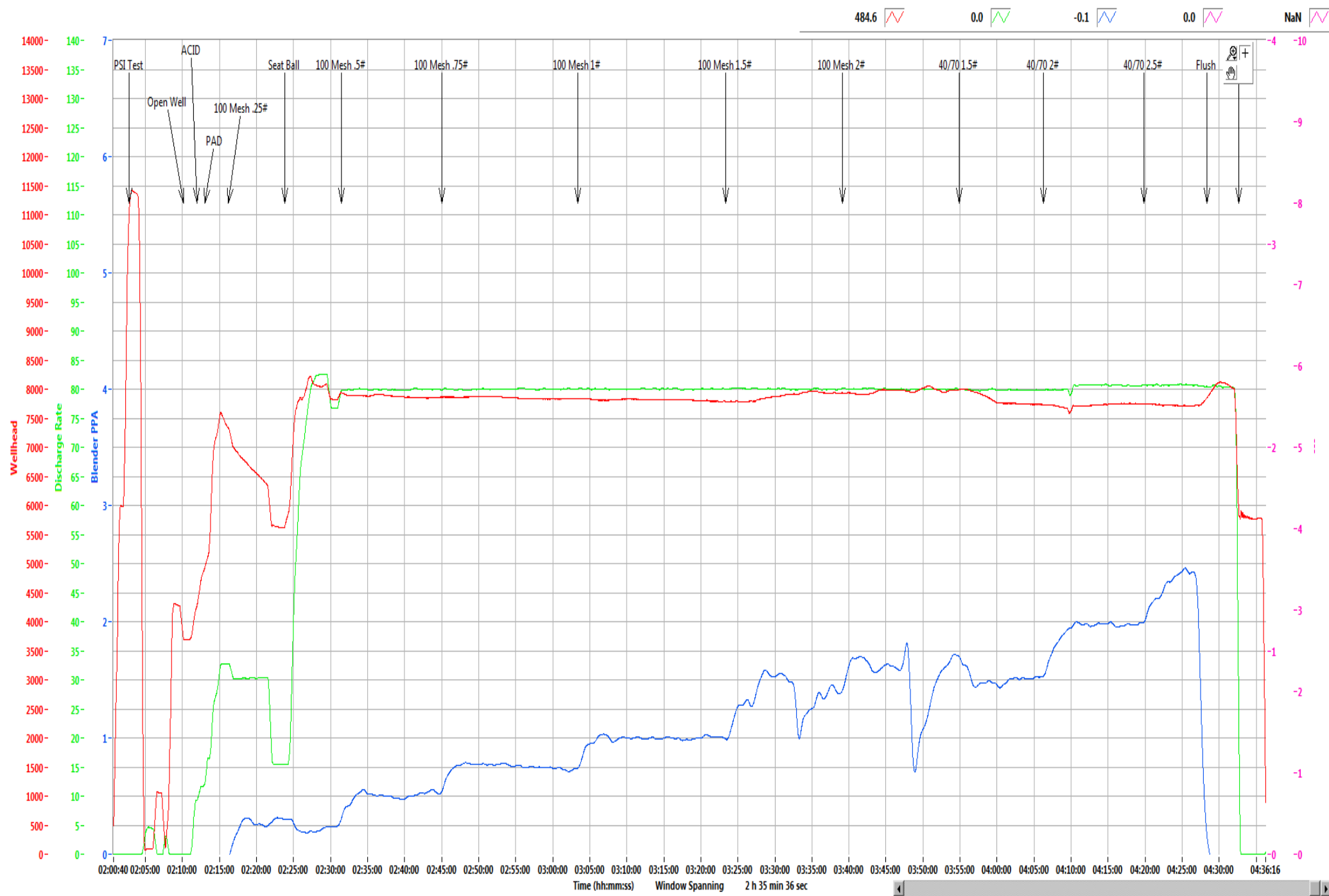
CHEMICALS

FR 9800	208
Biocide	104
Scale	22

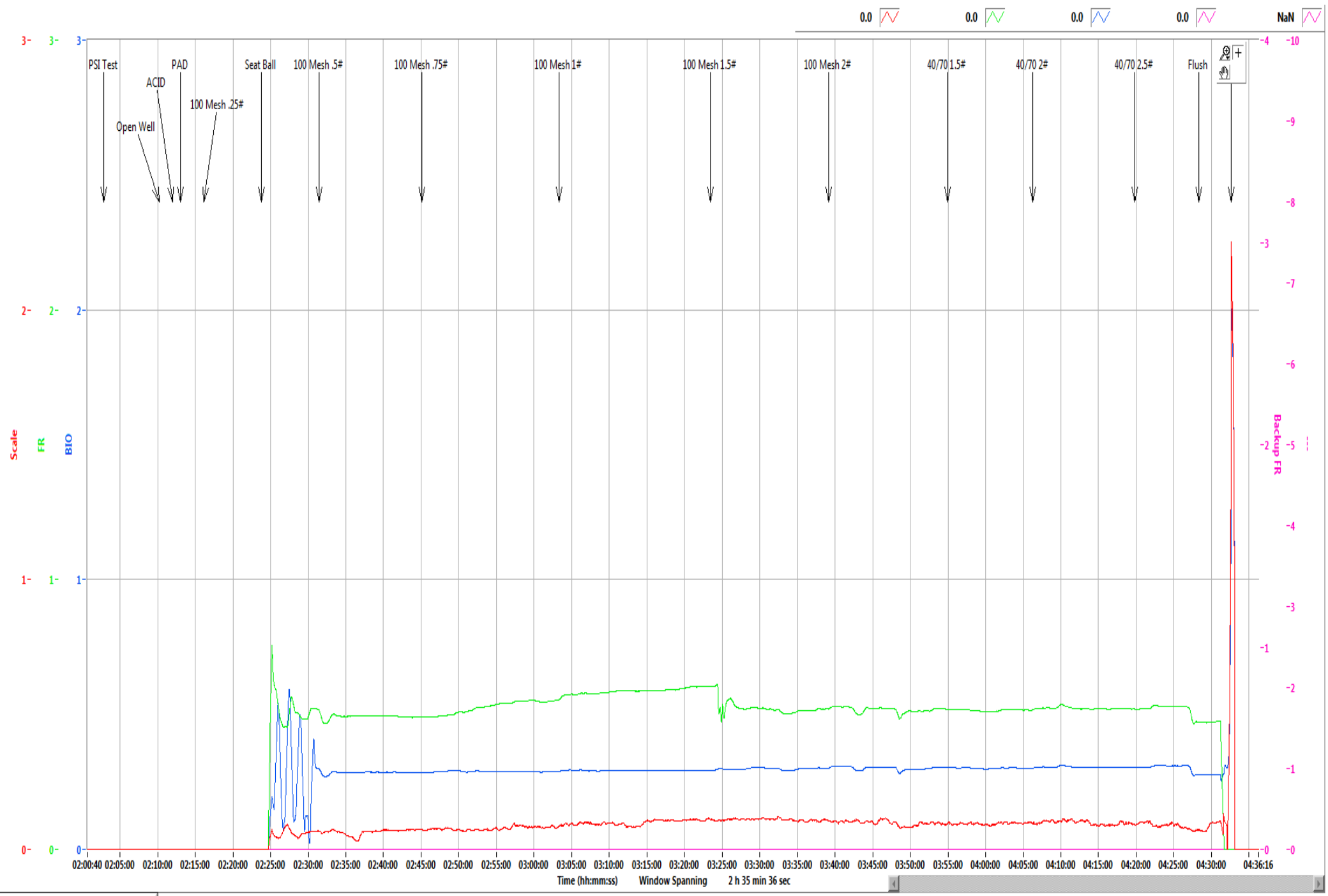


NNE
Boggess 1H
Stage 33
Producers Service Corp.

Post Stage Report
October 2, 2019



Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	33
Date:	10/2/19
OWP (psi):	3,675
Starting Time	2:10 AM
Ending Time	4:32 AM
Pump Time (hr:min)	02:22
Swap Time (hr:min)	03:34
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,849
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	7,849
Maximum Treating Rate (bbl/min)	83
Maximum Treating Pressure (psi)	8,358
Displacement (psi)	7,898
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,585
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)	10,073
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	311
Pad (bbls)	87
Treatment (bbls)	7,811
Displacement (bbls)	323
(Acid Included) Total (bbls)	10,085
Dirty Job Total (bbls)	10,654
100 Mesh	306,400
40/70	205,440
Total Proppant (lbs)	511,840
Total Proppant %	102.4%

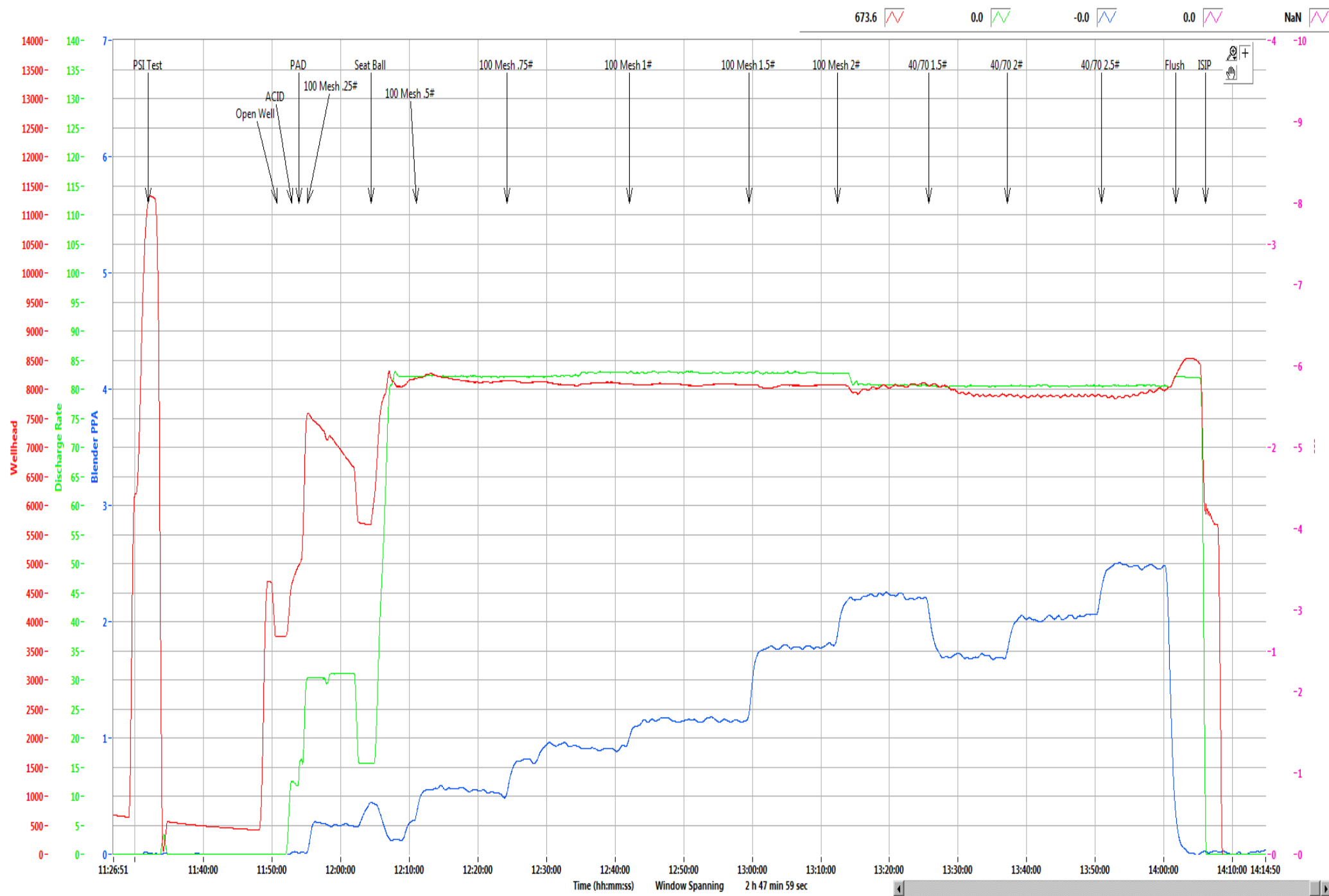
CHEMICALS

FR 9800	210
Biocide	105
Scale	21



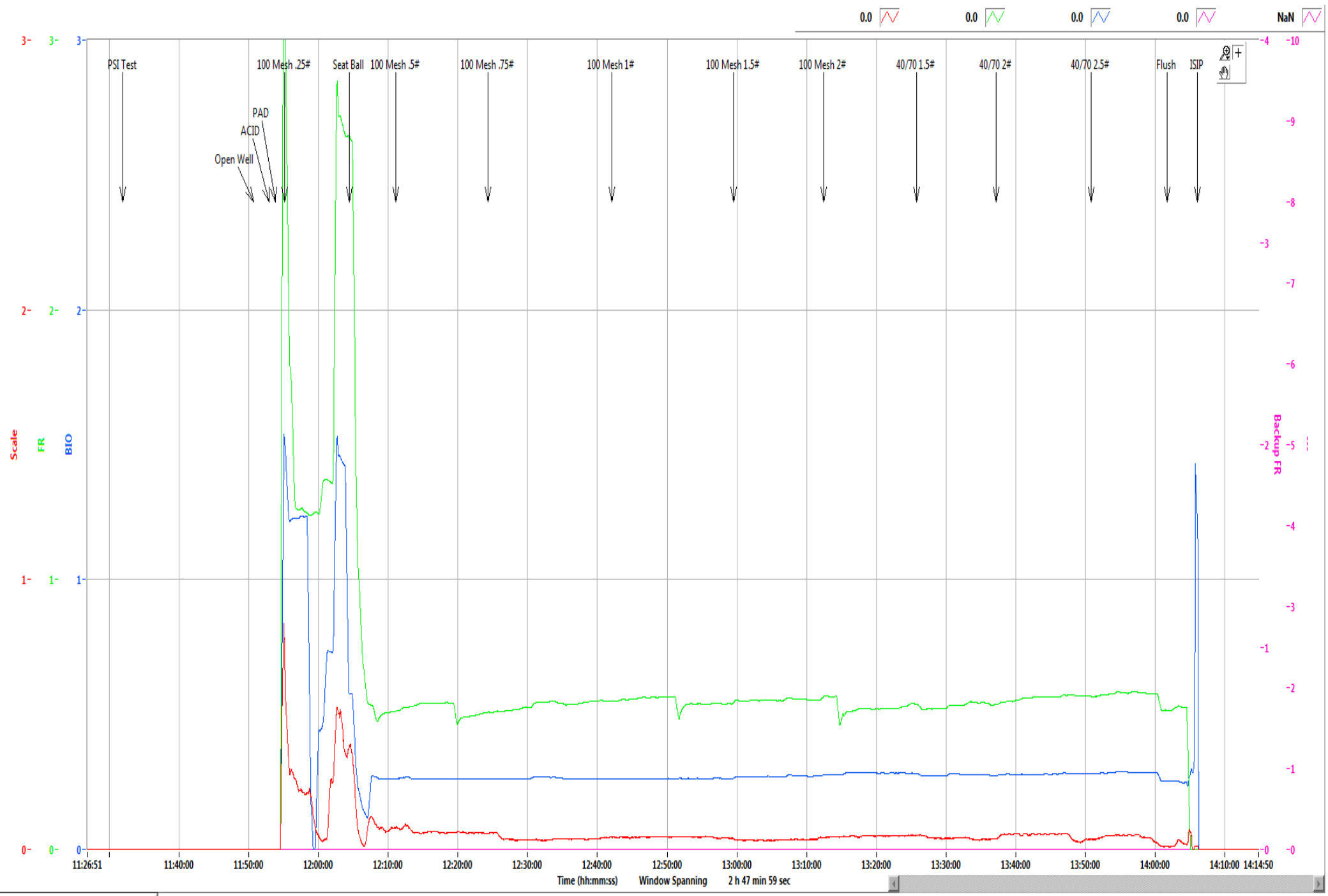
NNE
Boggess 1H
Stage 34
Producers Service Corp.

Post Stage Report
October 2, 2019



Refresh Graph

Time (hh:mm:ss) Window Spanning 2 h 47 min 59 sec



Refresh Graph

Boggess Pad**1H**

Stage	34
Date:	10/2/19
OWP (psi):	3,735
Starting Time	11:50 AM
Ending Time	2:06 PM
Pump Time (hr:min)	02:16
Swap Time (hr:min)	02:18
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,163
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,037
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,449
Displacement (psi)	8,269
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,004
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)	9,541
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	326
Pad (bbls)	29
Treatment (bbls)	9,203
Displacement (bbls)	317
(Acid Included) Total (bbls)	9,553
Dirty Job Total (bbls)	10,153
100 Mesh	302,220
40/70	199,700
Total Proppant (lbs)	501,920
Total Proppant %	100.4%

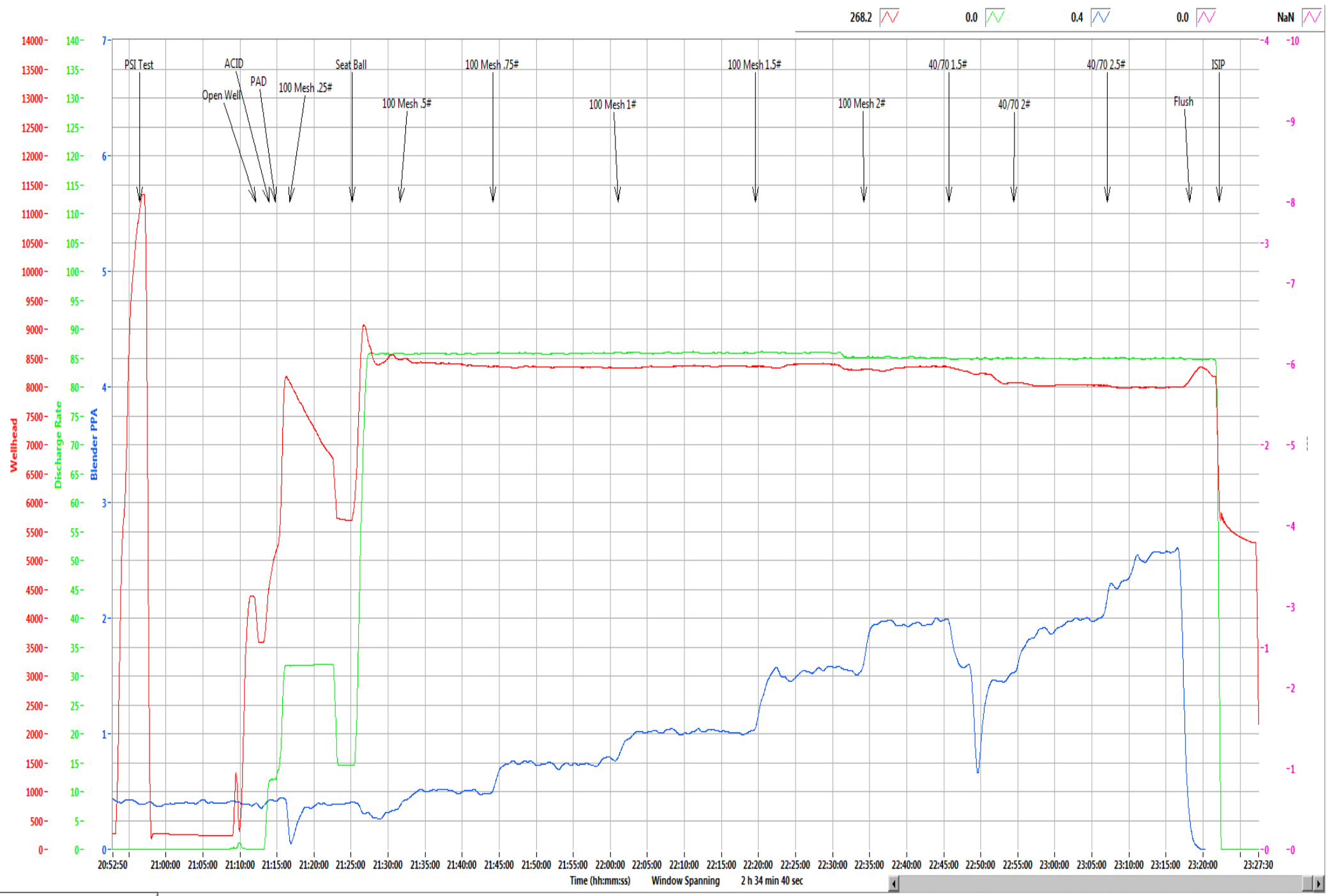
CHEMICALS

FR 9800	210
Biocide	107
Scale	23

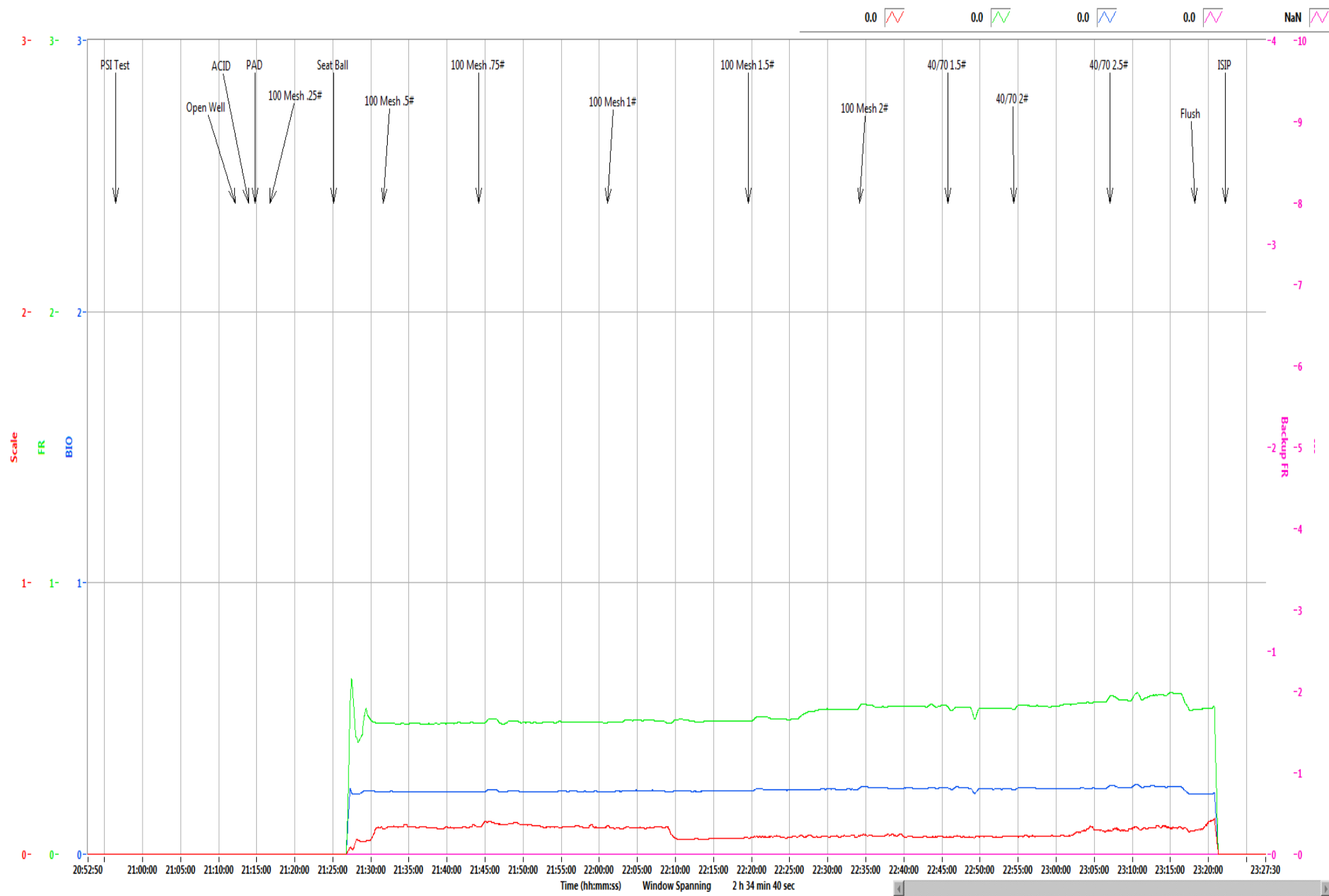


NNE
Boggess 1H
Stage 35
Producers Service Corp.

Post Stage Report
October 2, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	35
Date:	10/2/19
OWP (psi):	3,570
Starting Time	9:12 PM
Ending Time	11:22 PM
Pump Time (hr:min)	02:10
Swap Time (hr:min)	00:46
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,071
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,278
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,599
Displacement (psi)	8,185
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,383
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)	9,858
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	296
Pad (bbls)	49
Treatment (bbls)	9,498
Displacement (bbls)	322
(Acid Included) Total (bbls)	9,870
Dirty Job Total (bbls)	10,297
100 Mesh	301,440
40/70	203,260
Total Proppant (lbs)	504,700
Total Proppant %	100.9%

CHEMICALS

FR 9800	207
Biocide	104
Scale	21

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




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

Invoice #: 23144
 Date: 10/2/2019
 Well Name: Boggest 1H
 Stage No.: 35

State: WV
 County: Monongahela
 Operator: Eck/Tilton
 PO/AFE: 100343

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	3,014.40	CWT	\$ 5.50	\$ 16,579.20
SAND 40/70	40/70 white	2,032.60	CWT	\$ 5.75	\$ 11,687.45
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	207	GAL	\$ 17.75	\$ 3,674.25
BIOC11219A	Biocide @ 0.25 GPT	104	GAL	\$ 16.00	\$ 1,664.00
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		252.35	TON	\$ 55.00	\$ 13,879.25
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,280.15
				25% Discount Applied	\$ 17,070.04
				Net Stage Total	\$ 51,210.11

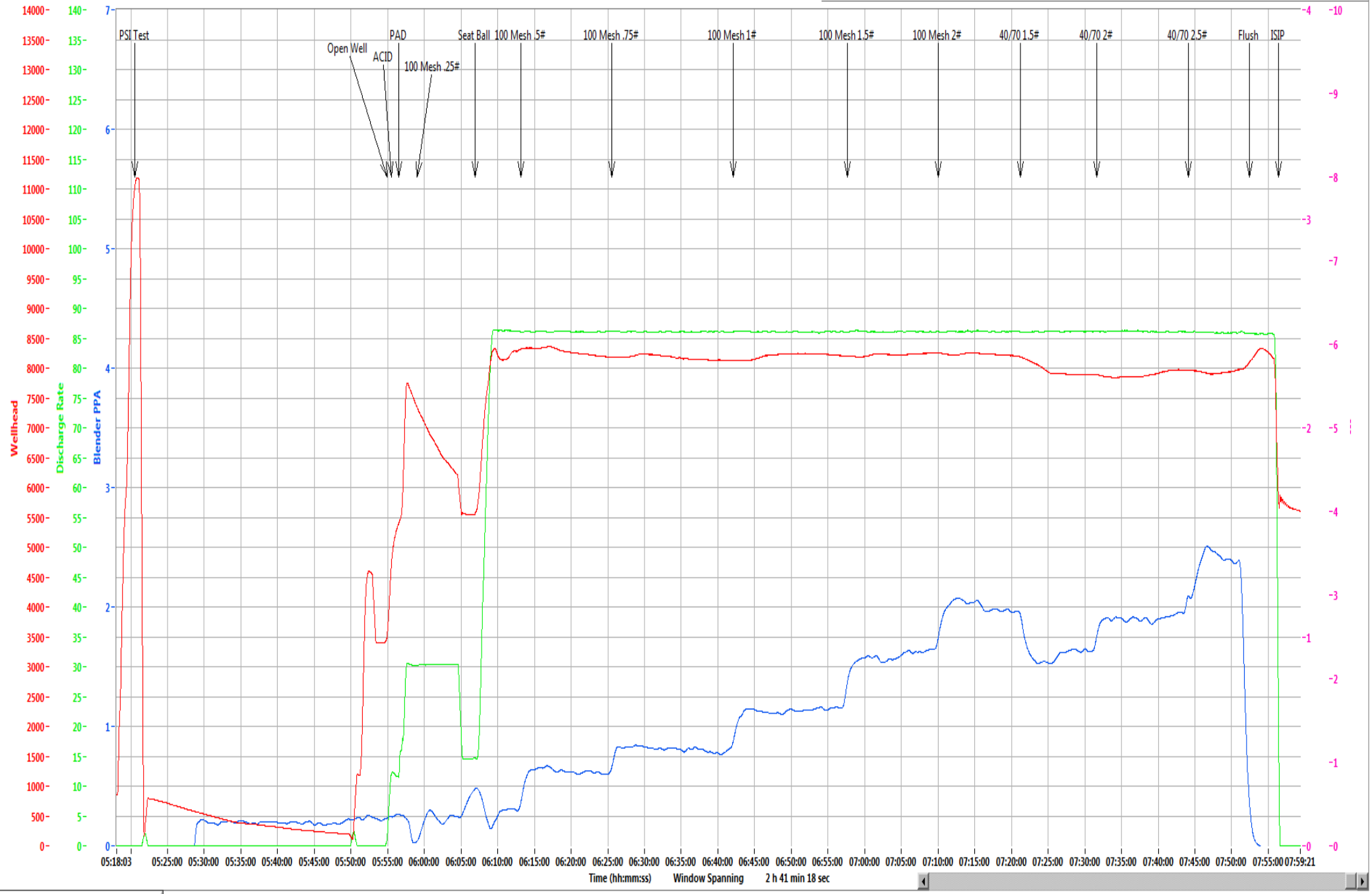
(Print Name) Mike Inman Customer Signature: 



NNE
Boggess 1H
Stage 36
Producers Service Corp.

Post Stage Report
October 3, 2019

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Time (hh:mm:ss) Window Spanning 2 h 41 min 18 sec

Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	36
Date:	10/3/19
OWP (psi):	3,398
Starting Time	5:20 AM
Ending Time	7:56 AM
Pump Time (hr:min)	02:36
Swap Time (hr:min)	00:42
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,765
Average Treating Rate (bbl/min)	86
Average Treating Pressure (psi)	8,133
Maximum Treating Rate (bbl/min)	87
Maximum Treating Pressure (psi)	8,418
Displacement (psi)	8,152
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,089
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)	9,239
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	287
Pad (bbls)	67
Treatment (bbls)	8,848
Displacement (bbls)	311
(Acid Included) Total (bbls)	9,251
Dirty Job Total (bbls)	9,700
100 Mesh	300,140
40/70	200,300
Total Proppant (lbs)	500,440
Total Proppant %	100.1%

CHEMICALS

FR 9800	195
Biocide	98
Scale	20

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



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

Invoice #: 23146
Date: 10/3/2019
Well Name: Boggess 1H
Stage No.: 36

State: WV
County: Monongahela
Operator: Stetson/Jeremy M
PO/AFE: 100343

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	3,001.40	CWT	\$ 5.50	\$ 16,507.70
SAND 40/70	40/70 white	2,003.00	CWT	\$ 5.75	\$ 11,517.25
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	195	GAL	\$ 17.75	\$ 3,461.25
BIOC11219A	Biocide @ 0.25 GPT	98	GAL	\$ 16.00	\$ 1,568.00
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		250.22	TON	\$ 55.00	\$ 13,762.10
DIESEL FUEL	Not eligible for discount	81	GAL	\$ 3.04	\$ 246.24

Total No Discount \$ 67,596.30
25% Discount Applied \$ 16,899.08
Net Stage Total \$ 50,943.47

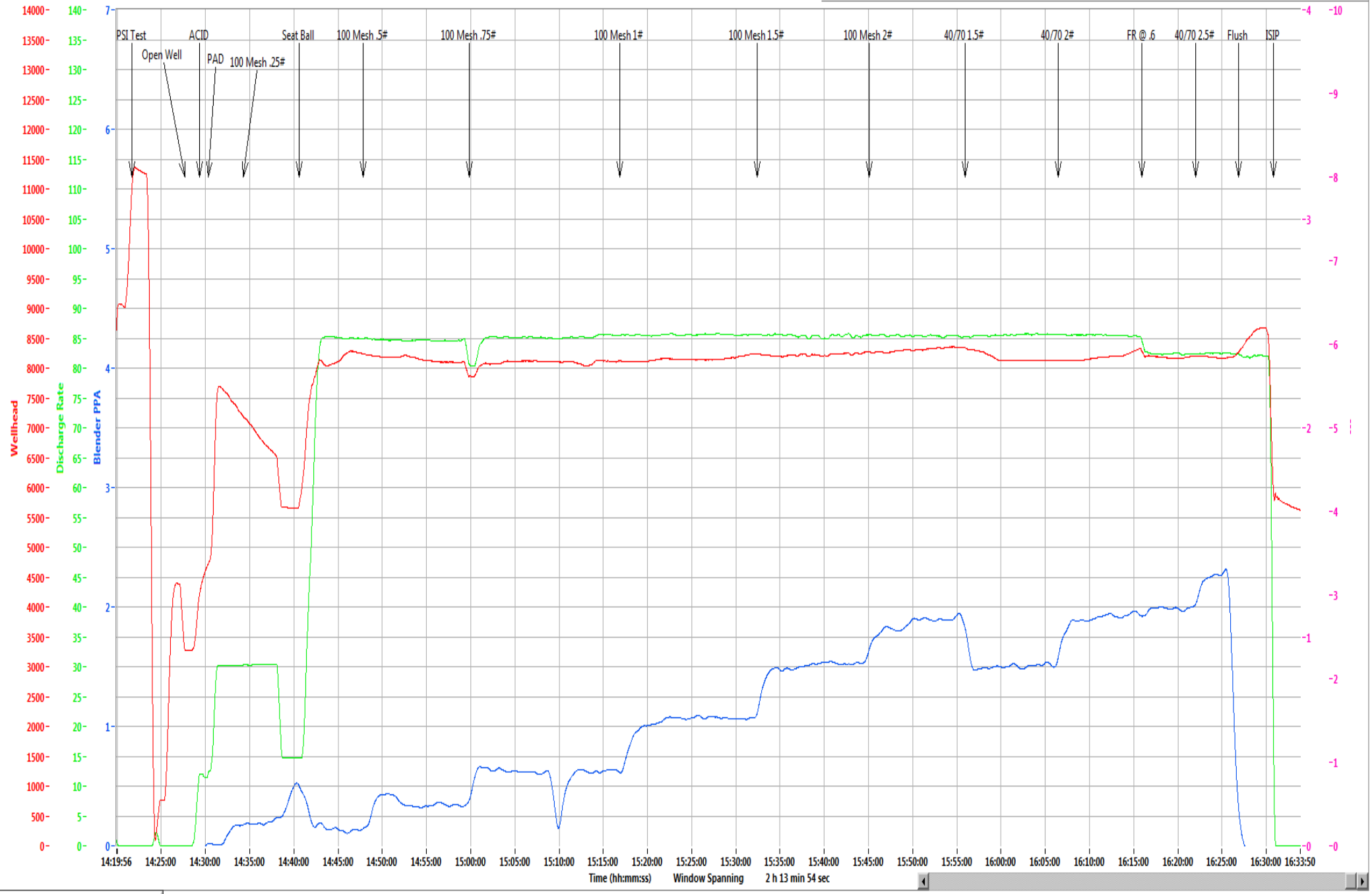
(Print Name) .. Rob Cowger Customer Rep: Rob Cowger Customer Signature: [Signature]



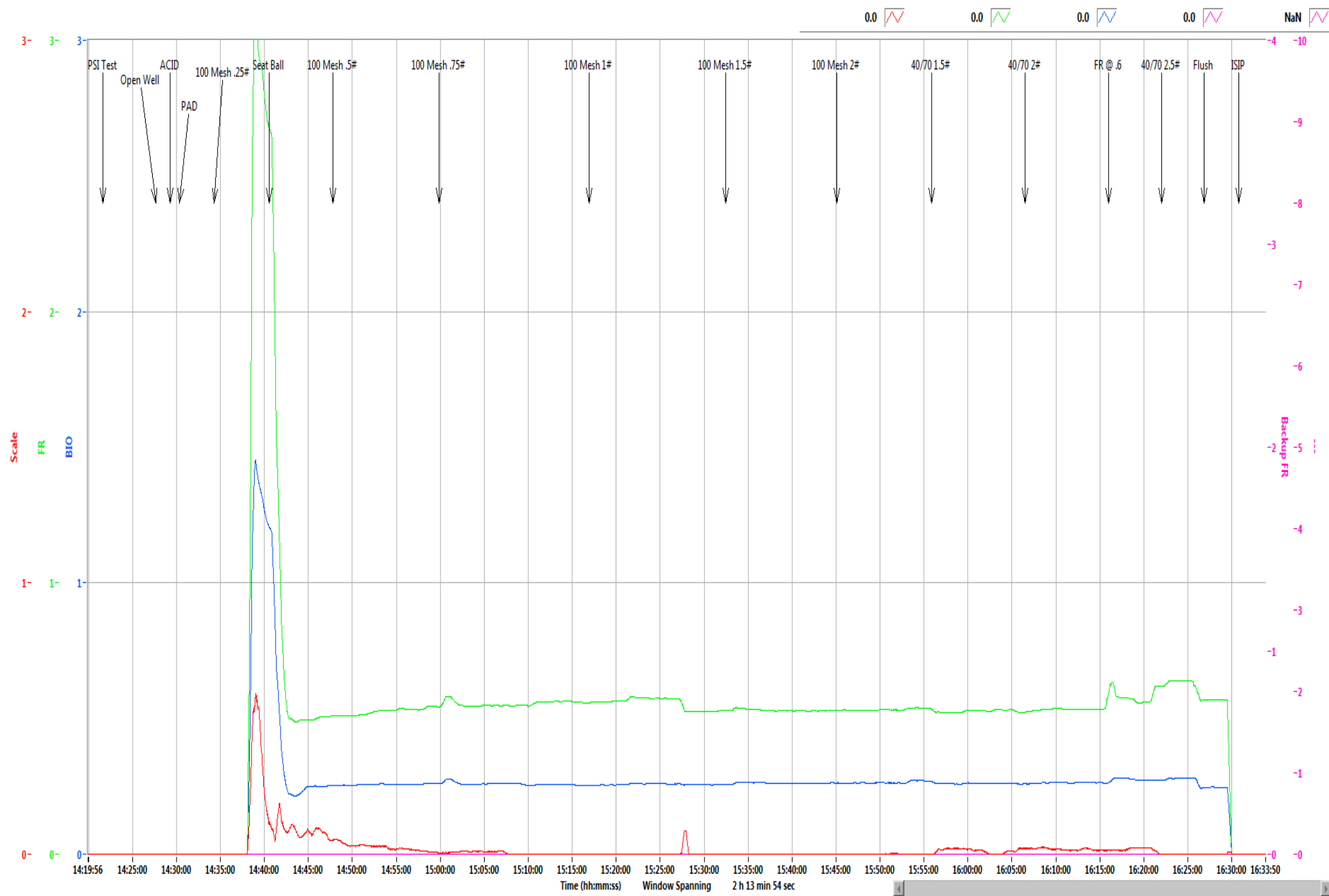
NNE
Boggess 1H
Stage 37
Producers Service Corp.

Post Stage Report
October 3, 2019

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Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	37
Date:	10/3/19
OWP (psi):	3,267
Starting Time	2:21 PM
Ending Time	4:30 PM
Pump Time (hr:min)	02:09
Swap Time (hr:min)	01:08
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,148
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,172
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,473
Displacement (psi)	8,281
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,918
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)	9,142
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	265
Pad (bbls)	117
Treatment (bbls)	8,708
Displacement (bbls)	302
(Acid Included) Total (bbls)	9,154
Dirty Job Total (bbls)	9,571
100 Mesh	297,520
40/70	205,760
Total Proppant (lbs)	503,280
Total Proppant %	100.7%

CHEMICALS

FR 9800	196
Biocide	97
Scale	21

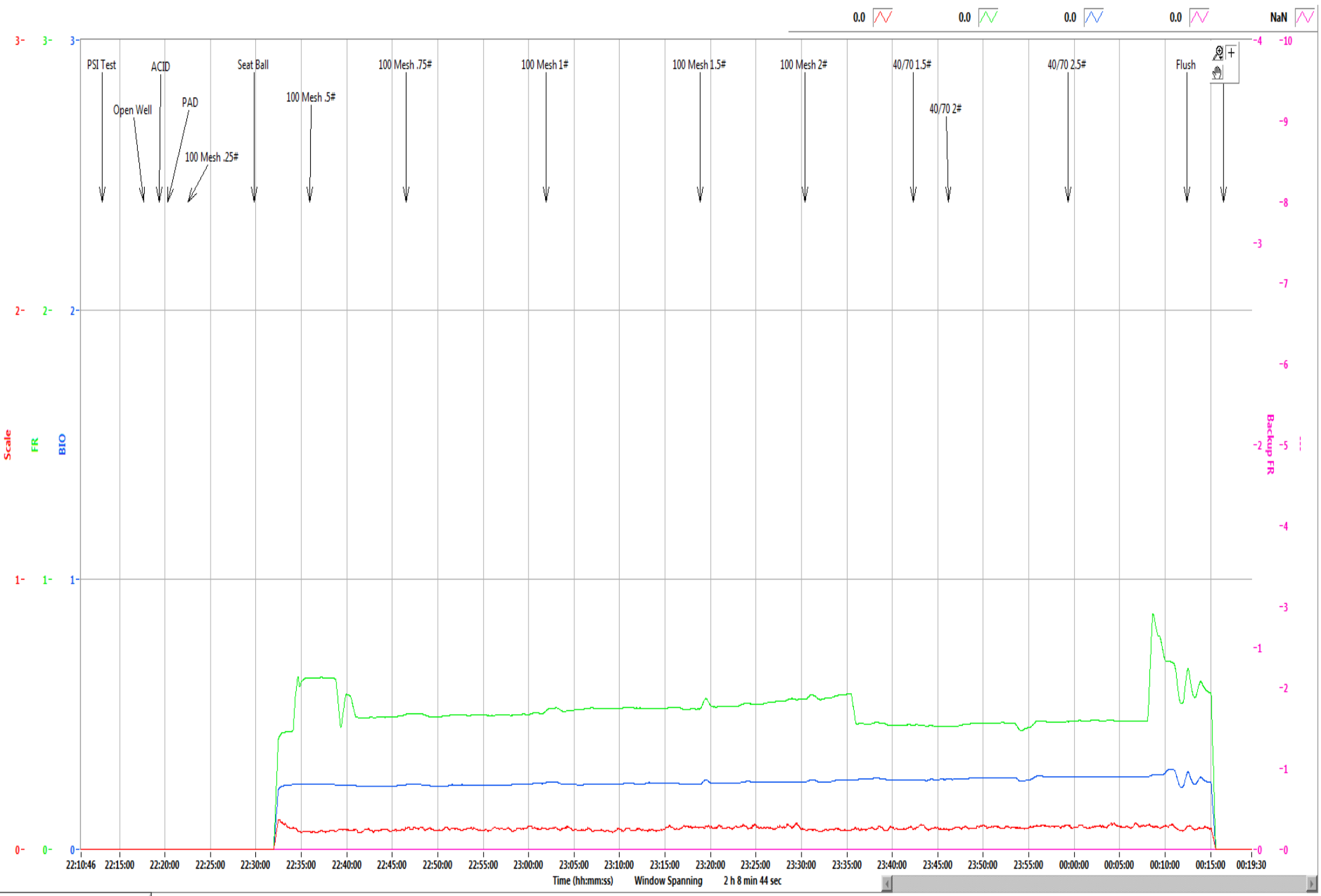


NNE
Boggess 1H
Stage 38
Producers Service Corp.

Post Stage Report
October 4, 2019



Refresh Graph



Refresh Graph

Bogges Pad	1H
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Stage	38
Date:	10/3/19
OWP (psi):	3,418
Starting Time	10:17 PM
Ending Time	12:16 AM
Pump Time (hr:min)	01:59
Swap Time (hr:min)	03:09
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,776
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	7,959
Maximum Treating Rate (bbl/min)	83
Maximum Treating Pressure (psi)	9,100
Displacement (psi)	7,958
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,719
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)	8,554
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	265
Pad (bbls)	76
Treatment (bbls)	8,188
Displacement (bbls)	297
(Acid Included) Total (bbls)	8,566
Dirty Job Total (bbls)	8,969
100 Mesh	303,640
40/70	199,680
Total Proppant (lbs)	503,320
Total Proppant %	100.7%

CHEMICALS

FR 9800	182
Biocide	90
Scale	18

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




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

Invoice #: 22549
 Date: 10/4/2019
 Well Name: Bogges 1H
 Stage No.: 38

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100343

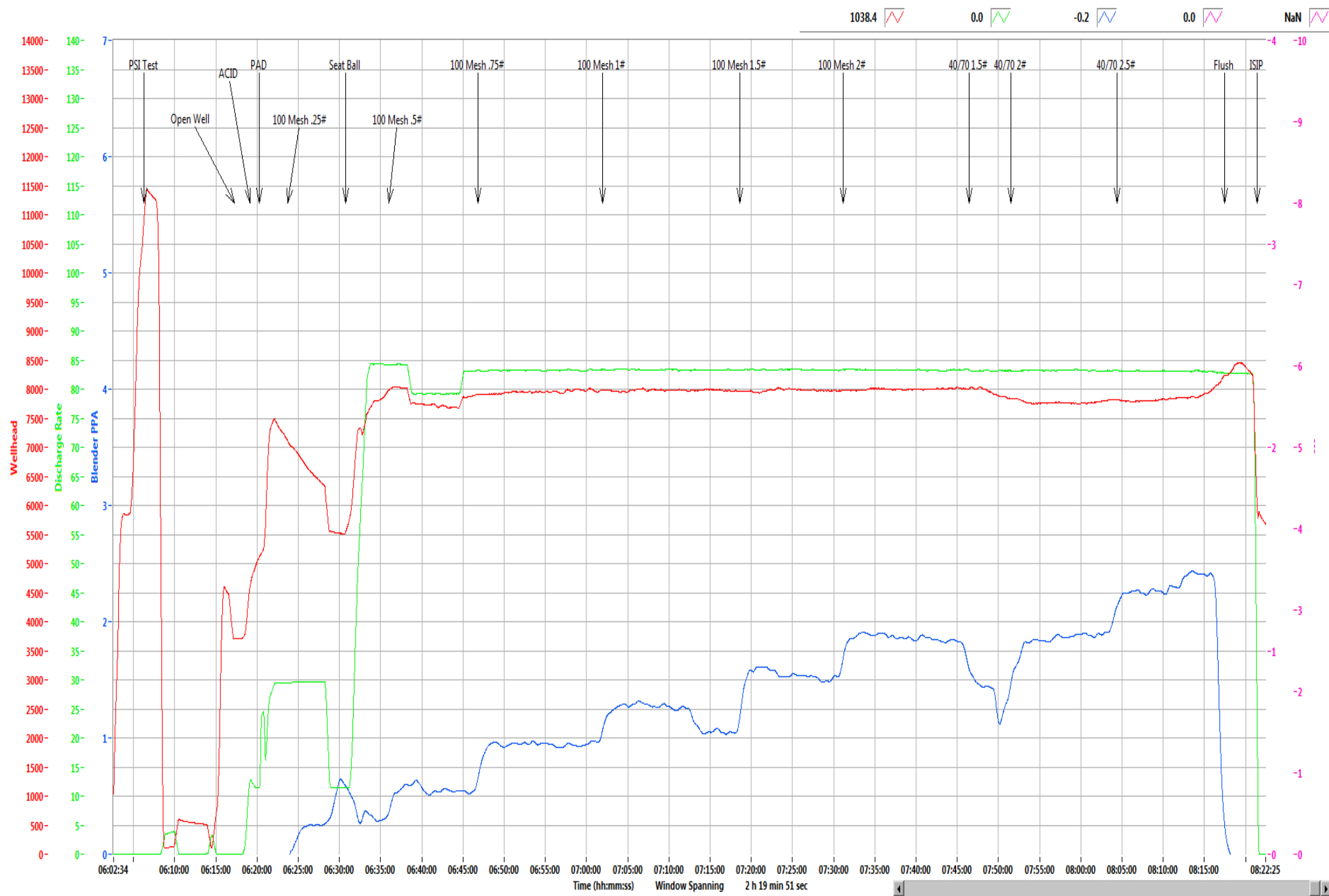
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,036.40	CWT	\$ 5.50	\$ 16,700.20
SAND 40/70	40/70 white	1,996.80	CWT	\$ 5.75	\$ 11,481.60
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	182	GAL	\$ 17.75	\$ 3,230.50
BIOC11219A	Biocide @ 0.25 GPT	90	GAL	\$ 16.00	\$ 1,440.00
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		251.66	TON	\$ 55.00	\$ 13,841.30
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,441.60
				25% Discount Applied	\$ 16,860.40
				Net Stage Total	\$ 50,581.20

(Print Name) Customer Rep: Mike Inman Customer Signature: 



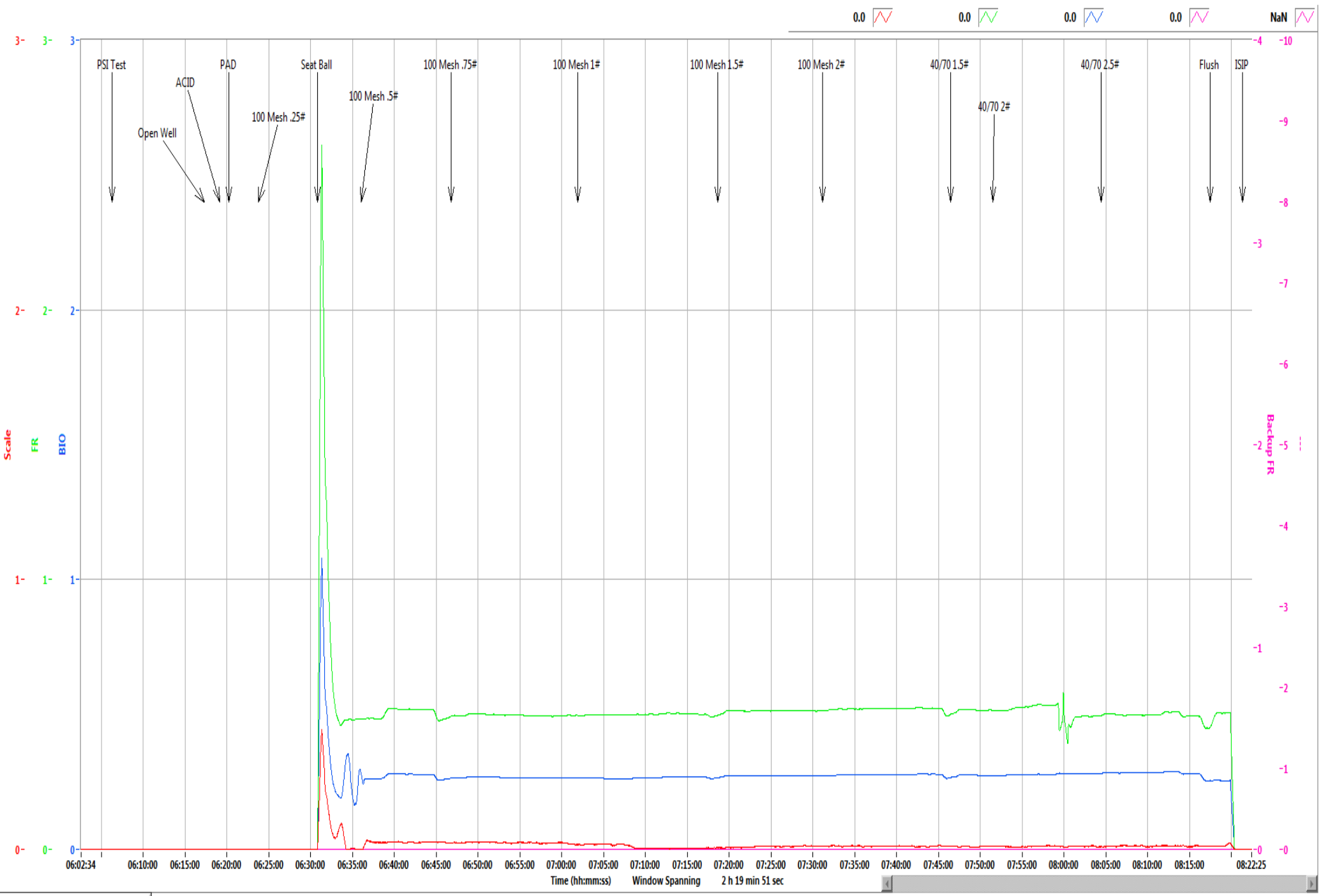
NNE
Bogges 1H
Stage 39
Producers Service Corp.

Post Stage Report
October 4, 2019



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Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	39
Date:	10/4/19
OWP (psi):	3,713
Starting Time	6:17 AM
Ending Time	8:21 AM
Pump Time (hr:min)	02:04
Swap Time (hr:min)	02:50
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,770
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	7,914
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,281
Displacement (psi)	8,190
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,929
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)	8,995
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	258
Pad (bbls)	99
Treatment (bbls)	8,600
Displacement (bbls)	301
(Acid Included) Total (bbls)	9,007
Dirty Job Total (bbls)	9,445
100 Mesh	300,100
40/70	200,080
Total Proppant (lbs)	500,180
Total Proppant %	100.0%

CHEMICALS

FR 9800	198
Biocide	101
Scale	22

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



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

Invoice #: 23851
 Date: 10/4/2019
 Well Name: Bogges 1H
 Stage No.: 39

State: WV
 County: Monongahela
 Operator: Stetson/Moon
 PO/AFE: 100343

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	3,001.00	CWT	\$ 5.50	\$ 16,505.50
SAND 40/70	40/70 white	2,000.80	CWT	\$ 5.75	\$ 11,504.60
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	198	GAL	\$ 17.75	\$ 3,514.50
BIOC11219A	Biocide @ 0.25 GPT	101	GAL	\$ 16.00	\$ 1,616.00
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		250.09	TON	\$ 55.00	\$ 13,754.95
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,707.55
				25% Discount Applied	\$ 16,926.89
				Net Stage Total	\$ 50,780.66

(Print Name)

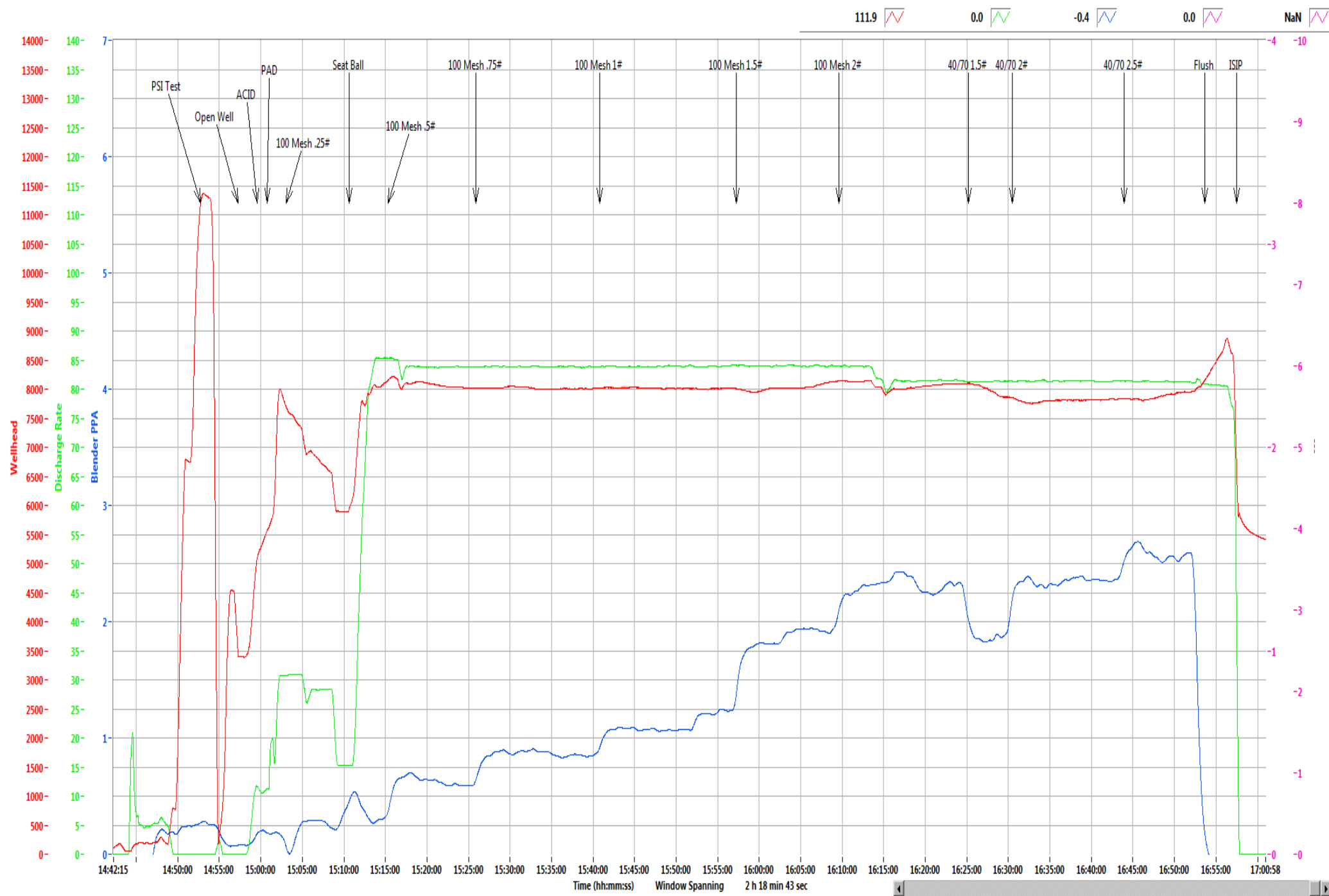
Customer Rep: Rob Cowger

Customer Signature: [Signature]

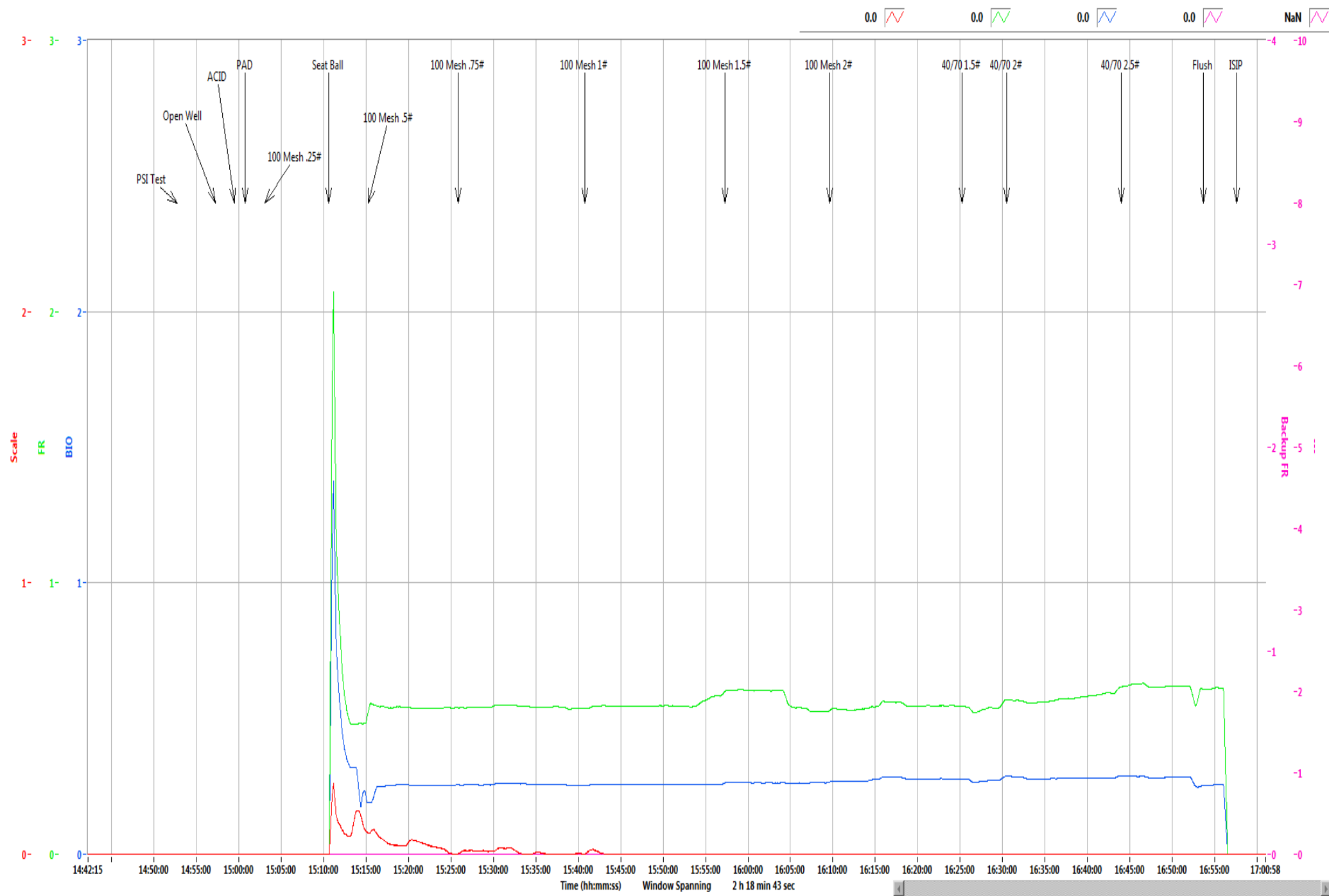


NNE
Boggess 1H
Stage 40
Producers Service Corp.

Post Stage Report
October 4, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	40
Date:	10/4/19
OWP (psi):	3,391
Starting Time	2:57 PM
Ending Time	5:12 PM
Pump Time (hr:min)	02:15
Swap Time (hr:min)	01:29
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,193
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	7,990
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,255
Displacement (psi)	8,194
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,593
Final FG (psi/ft)	1.13
5 Minute Leakoff Pressure (psi)	5,336
5 Minute Leakoff Rate (psi/min)	51
10 Minute Leakoff Pressure (psi)	5,186
10 Minute Leakoff Rate (psi/min)	41
15 Minute Leakoff Pressure (psi)	5,079
15 Minute Leakoff Rate (psi/min)	34

Fluids & Proppant

Slickwater (bbls)	8,631
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	253
Pad (bbls)	63
Treatment (bbls)	8,284
Displacement (bbls)	290
(Acid Included) Total (bbls)	8,643
Dirty Job Total (bbls)	9,097
100 Mesh	300,100
40/70	200,160
Total Proppant (lbs)	500,260
Total Proppant %	100.1%

CHEMICALS

FR 9800	190
Biocide	105
Scale	21



NNE
Boggess 1H
Stage 41
Producers Service Corp.

Post Stage Report
October 5, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	41
Date:	10/4/19
OWP (psi):	3,446
Starting Time	10:55 PM
Ending Time	12:47 AM
Pump Time (hr:min)	01:52
Swap Time (hr:min)	02:00
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,173
Average Treating Rate (bbl/min)	87
Average Treating Pressure (psi)	8,309
Maximum Treating Rate (bbl/min)	89
Maximum Treating Pressure (psi)	9,182
Displacement (psi)	8,384
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,876
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)	8,469
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	250
Pad (bbls)	115
Treatment (bbls)	8,078
Displacement (bbls)	283
(Acid Included) Total (bbls)	8,481
Dirty Job Total (bbls)	8,944
100 Mesh	301,360
40/70	200,300
Total Proppant (lbs)	501,660
Total Proppant %	100.3%

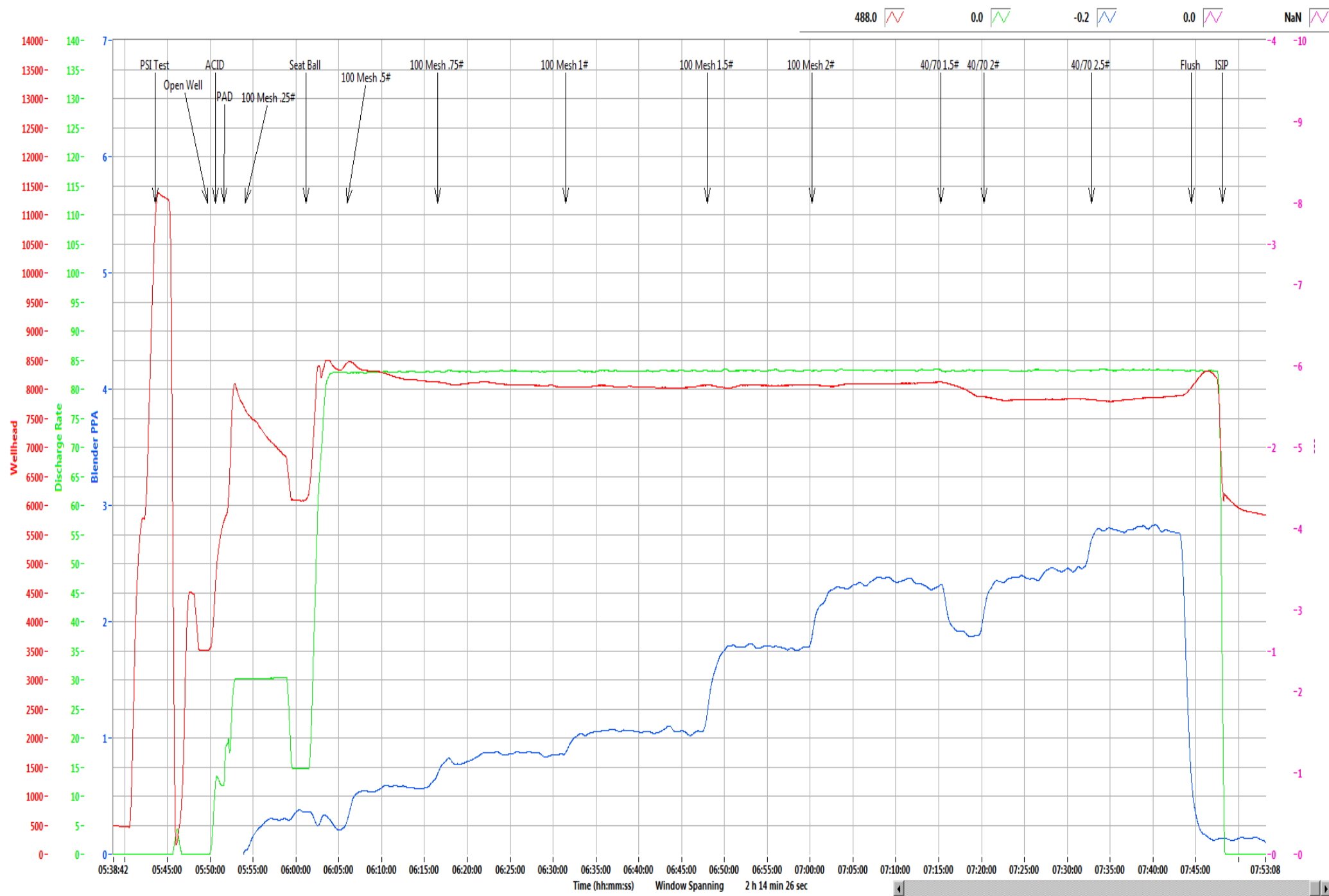
CHEMICALS

FR 9800	176
Biocide	88
Scale	18

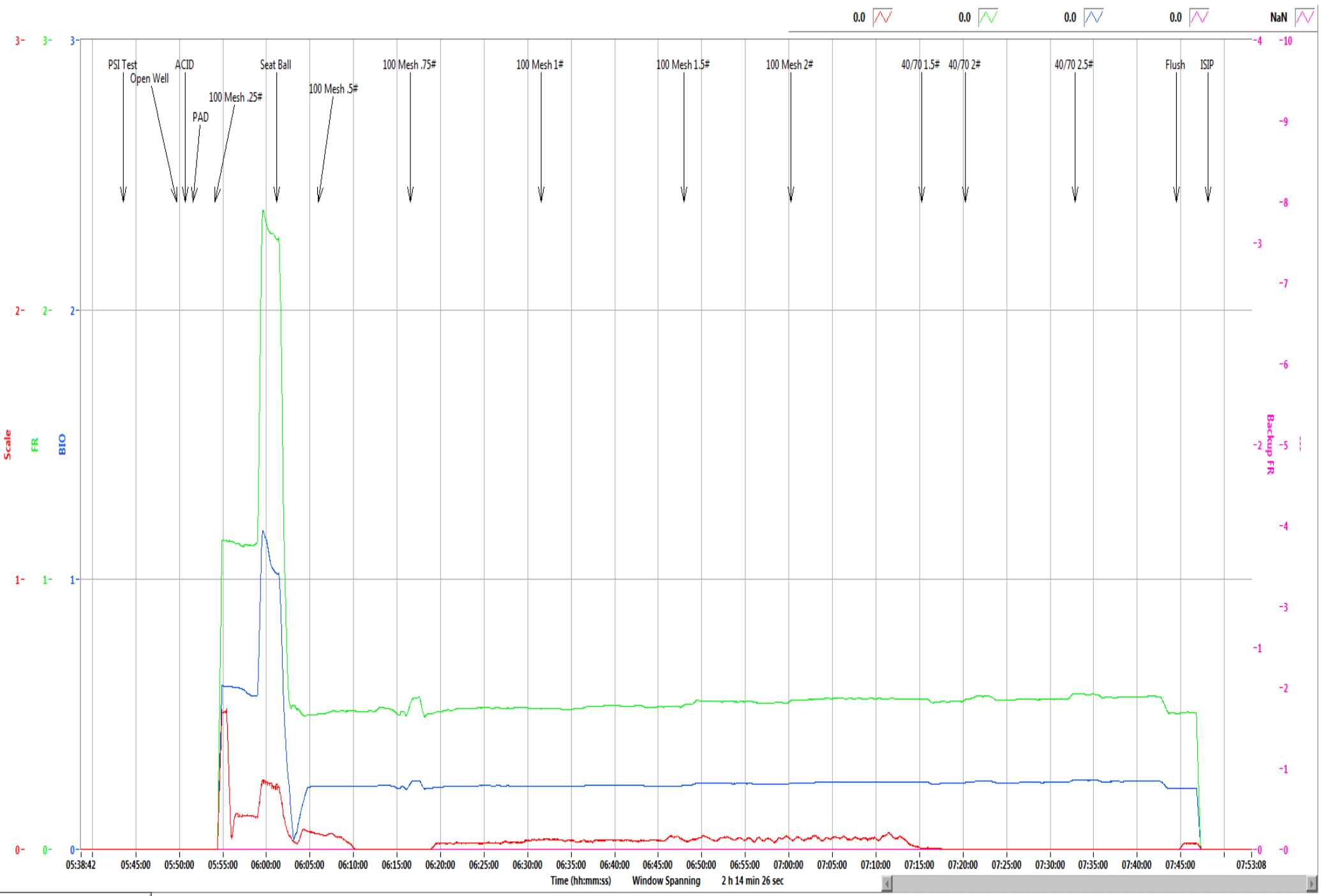


NNE
Boggess 1H
Stage 42
Producers Service Corp.

Post Stage Report
October 5, 2019



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Bogges Pad	1H
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Stage	42
Date:	10/5/19
OWP (psi):	3,507
Starting Time	5:43 AM
Ending Time	7:48 AM
Pump Time (hr:min)	02:05
Swap Time (hr:min)	01:53
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,245
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,040
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,757
Displacement (psi)	8,077
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,084
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)	8,857
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	250
Pad (bbls)	69
Treatment (bbls)	8,495
Displacement (bbls)	281
(Acid Included) Total (bbls)	8,869
Dirty Job Total (bbls)	9,332
100 Mesh	300,060
40/70	199,880
Total Proppant (lbs)	499,940
Total Proppant %	100.0%

CHEMICALS

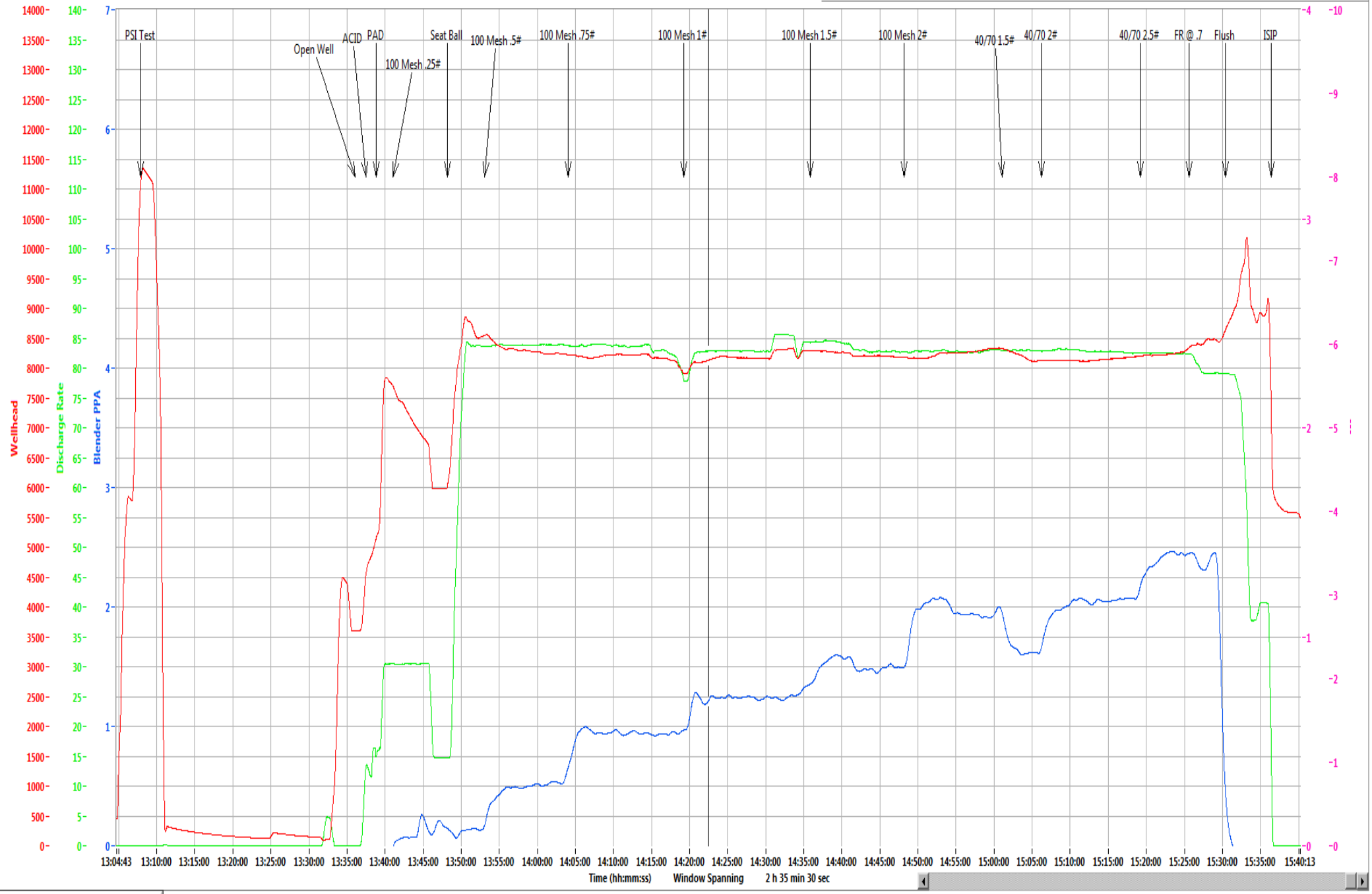
FR 9800	185
Biocide	93
Scale	19



NNE
Boggess 1H
Stage 43
Producers Service Corp.

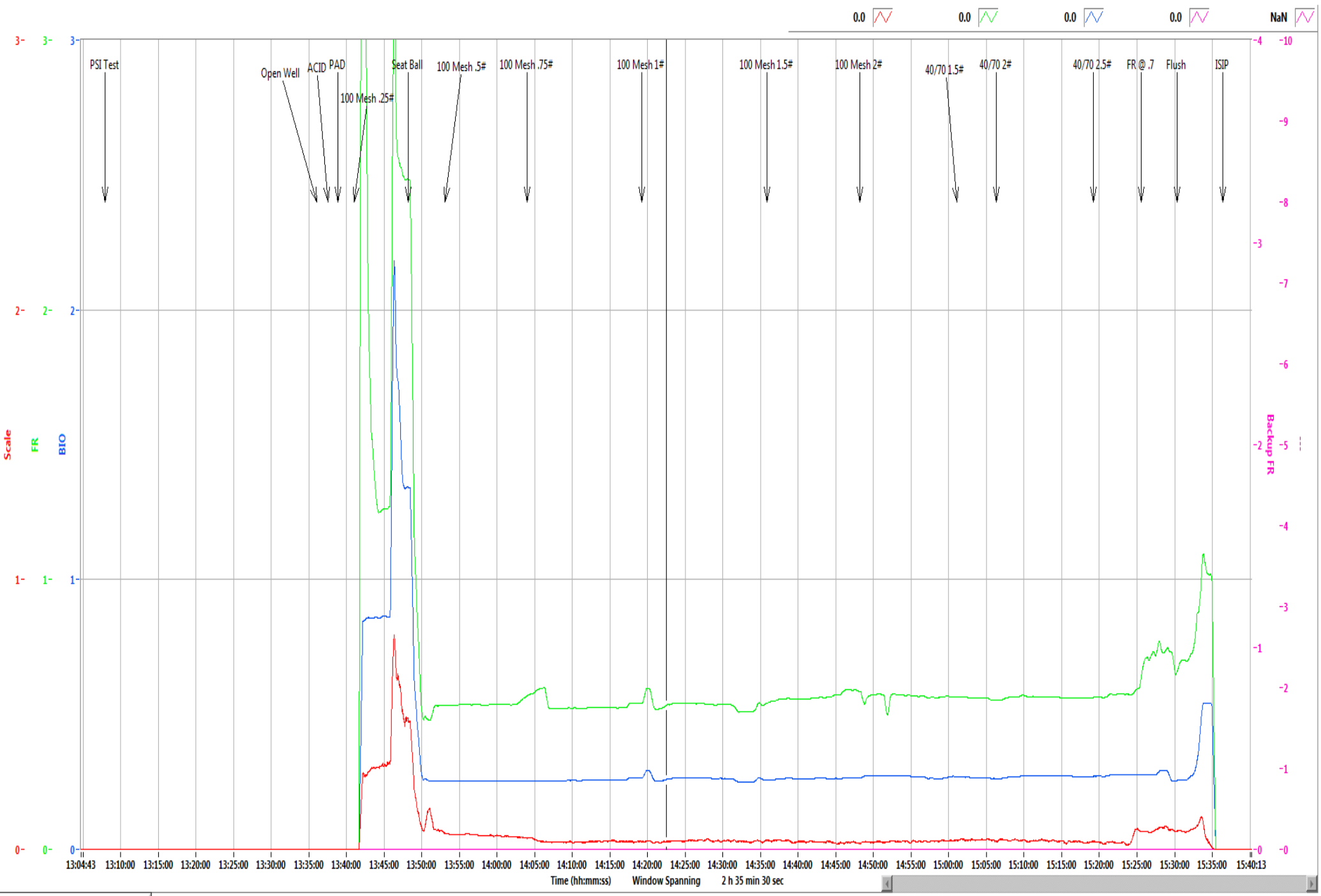
Post Stage Report
October 5, 2019

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Time (hh:mm:ss) Window Spanning 2 h 35 min 30 sec

Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	43
Date:	10/5/19
OWP (psi):	3,595
Starting Time	1:36 PM
Ending Time	3:36 PM
Pump Time (hr:min)	02:00
Swap Time (hr:min)	02:10
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,487
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,225
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,956
Displacement (psi)	8,672
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,938
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)	8,658
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	221
Pad (bbls)	59
Treatment (bbls)	8,260
Displacement (bbls)	323
(Acid Included) Total (bbls)	8,670
Dirty Job Total (bbls)	9,169
100 Mesh	300,740
40/70	199,840
Total Proppant (lbs)	500,580
Total Proppant %	100.1%

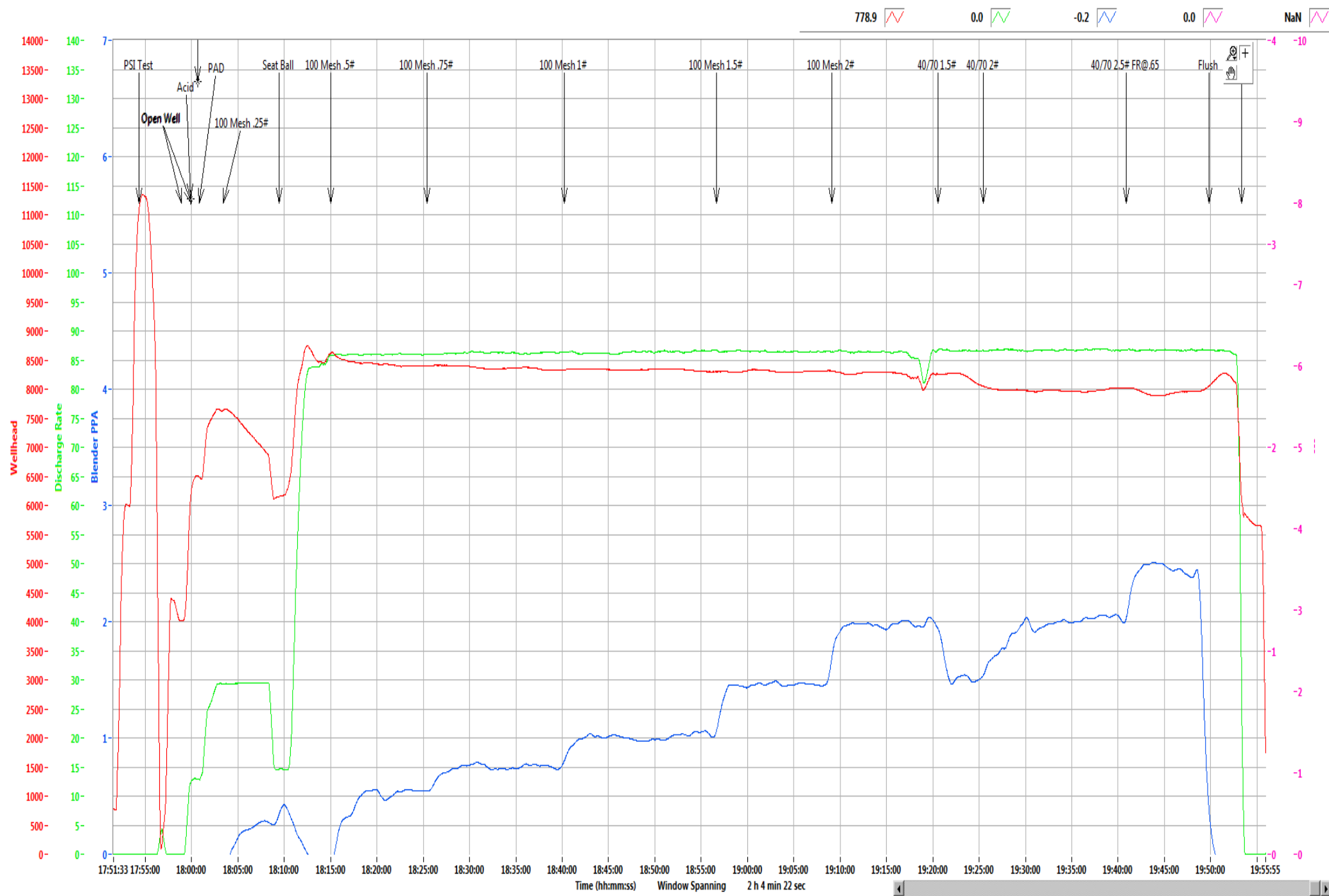
CHEMICALS

FR 9800	187
Biocide	92
Scale	19

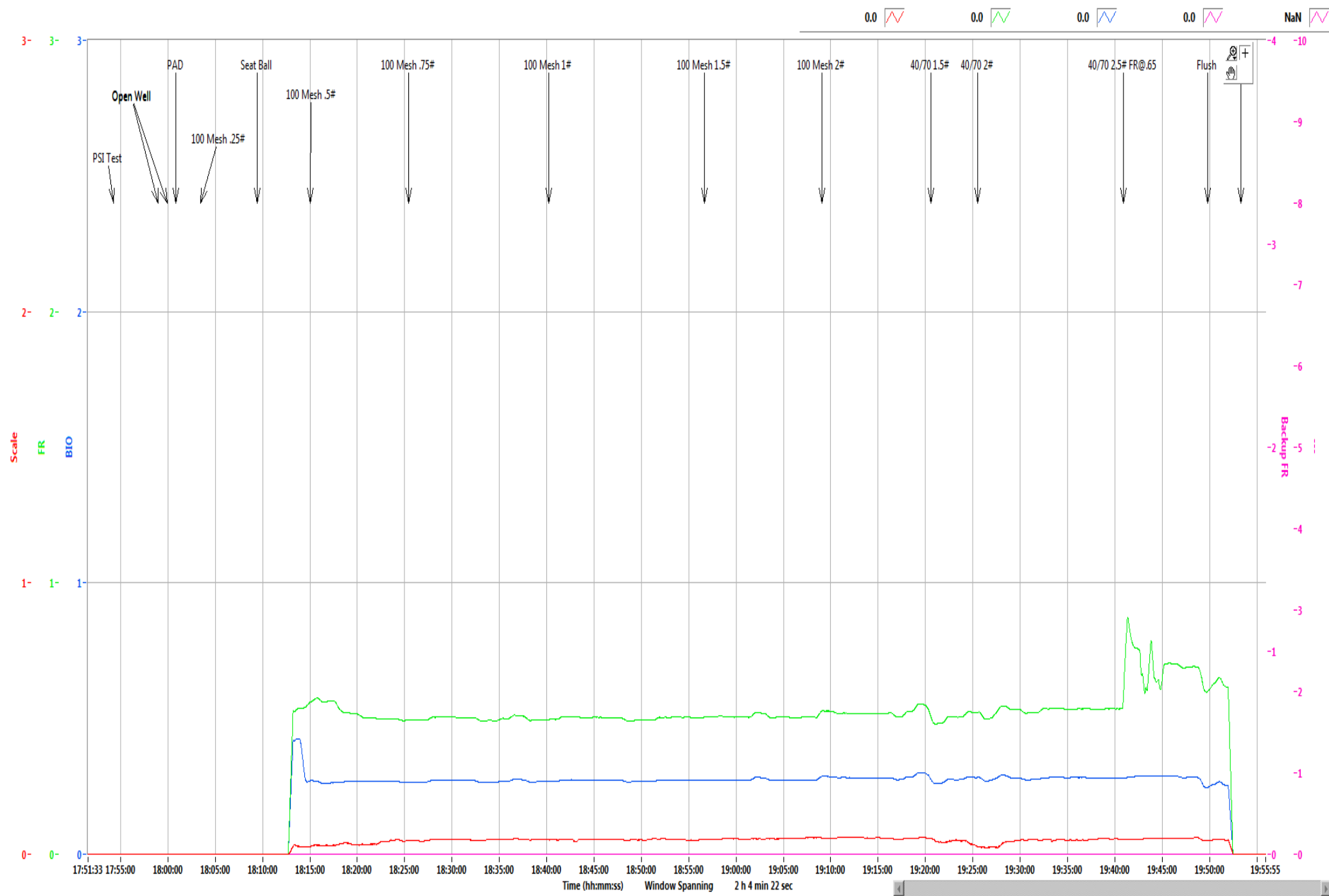


NNE
Boggess 1H
Stage 44
Producers Service Corp.

Post Stage Report
October 5, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	44
Date:	10/5/19
OWP (psi):	4,018
Starting Time	5:58 PM
Ending Time	7:53 PM
Pump Time (hr:min)	01:55
Swap Time (hr:min)	02:22
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,421
Average Treating Rate (bbl/min)	86
Average Treating Pressure (psi)	8,241
Maximum Treating Rate (bbl/min)	88
Maximum Treating Pressure (psi)	8,806
Displacement (psi)	8,065
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,780
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)	8,576
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	198
Pad (bbls)	91
Treatment (bbls)	8,219
Displacement (bbls)	272
(Acid Included) Total (bbls)	8,588
Dirty Job Total (bbls)	9,062
100 Mesh	300,500
40/70	200,400
Total Proppant (lbs)	500,900
Total Proppant %	100.2%

CHEMICALS

FR 9800	184
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 #: 23860
 Date: 10/5/2019
 Well Name: Bogges 1H
 Stage No.: 44

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100343

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	3,005.00	CWT	\$ 5.50	\$ 16,527.50
SAND 40/70	40/70 white	2,004.00	CWT	\$ 5.75	\$ 11,523.00
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	184	GAL	\$ 17.75	\$ 3,266.00
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		250.45	TON	\$ 55.00	\$ 13,774.75
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,263.25
				25% Discount Applied	\$ 16,815.81
				Net Stage Total	\$ 50,447.44

(Print Name) Mike Turner Customer Signature: 



NNE
Boggess 1H
Stage 45
Producers Service Corp.

Post Stage Report
October 6, 2019



Time (hh:mm:ss) Window Spanning 1 h 22 min 26 sec

Refresh Graph



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	45
Date:	10/5/19
OWP (psi):	3,667
Starting Time	10:36 PM
Ending Time	8:57 AM
Pump Time (hr:min)	10:21
Swap Time (hr:min)	02:43
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,262
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,098
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	11,061
Displacement (psi)	8,780
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,977
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)	8,971
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	201
Pad (bbls)	110
Treatment (bbls)	7,495
Displacement (bbls)	1,200
(Acid Included) Total (bbls)	8,983
Dirty Job Total (bbls)	9,675
100 Mesh	295,000
40/70	164,660
Total Proppant (lbs)	459,660
Total Proppant %	91.9%

CHEMICALS

FR 9800	179
Biocide	95
Scale	20

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



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

Invoice #: 23861
 Date: 10/6/2019
 Well Name: Boggess 1H
 Stage No.: 45

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100343

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	2,950.00	CWT	\$ 5.50	\$ 16,225.00
SAND 40/70	40/70 white	1,646.60	CWT	\$ 5.75	\$ 9,467.95
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	179	GAL	\$ 17.75	\$ 3,177.25
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
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		229.83	TON	\$ 55.00	\$ 12,640.65
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 63,810.85
				25% Discount Applied	\$ 15,952.71
				Net Stage Total	\$ 47,858.14

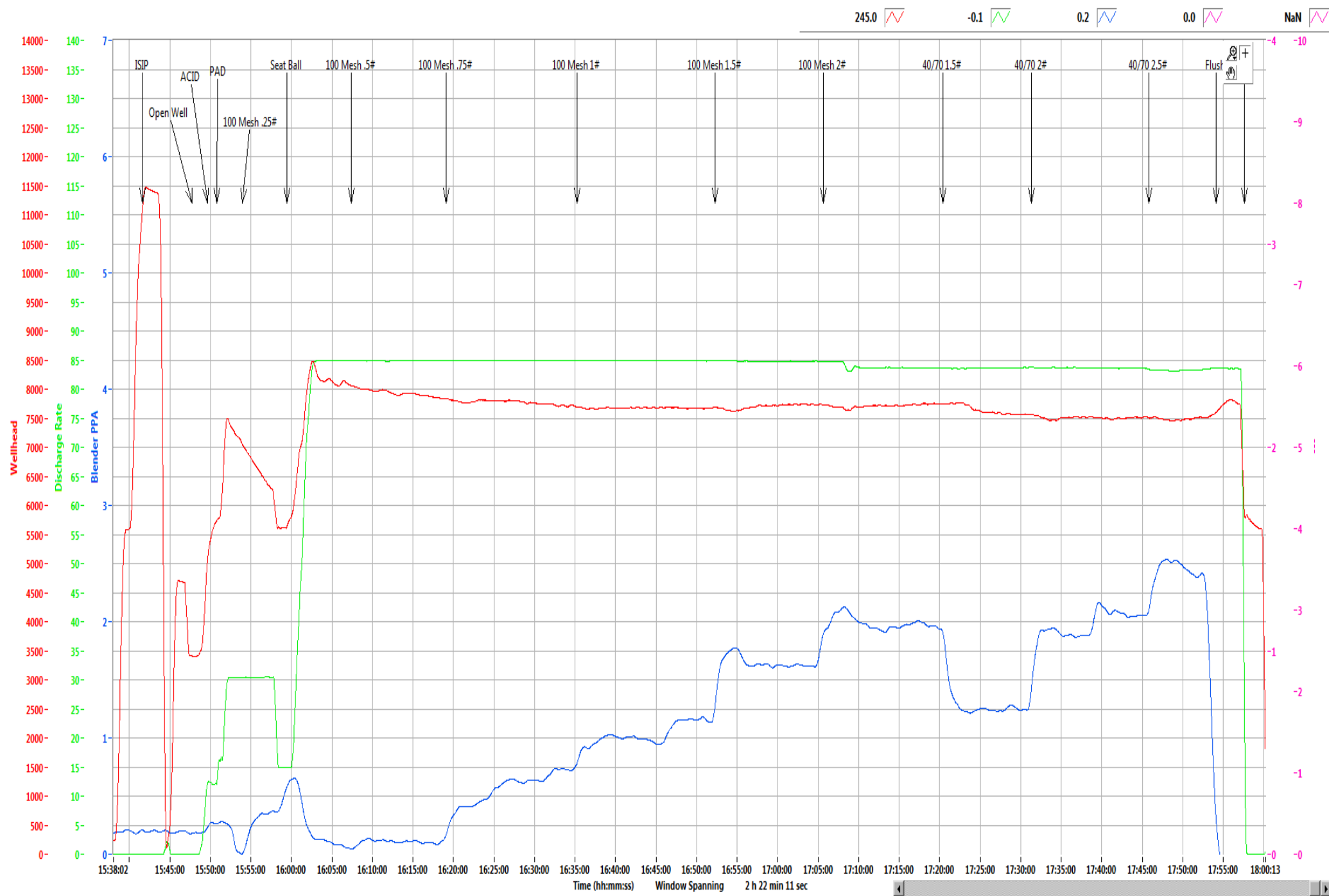
(Print Name) Rob Cowser

Customer Signature: *RA Cowser*



NNE
Boggess 1H
Stage 46
Producers Service Corp.

Post Stage Report
October 6, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	46
Date:	10/6/19
OWP (psi):	3,407
Starting Time	3:47 PM
Ending Time	5:57 PM
Pump Time (hr:min)	02:10
Swap Time (hr:min)	00:35
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	5,862
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	7,704
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,545
Displacement (psi)	7,596
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,742
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)	9,478
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	183
Pad (bbls)	106
Treatment (bbls)	9,116
Displacement (bbls)	262
(Acid Included) Total (bbls)	9,490
Dirty Job Total (bbls)	10,144
100 Mesh	300,020
40/70	199,780
Total Proppant (lbs)	499,800
Total Proppant %	100.0%

CHEMICALS

FR 9800	197
Biocide	99
Scale	20

Northeast Natural Energy
 48 Donley Street, Ste 801
 Morgantown, WV 26501



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

Invoice #: 23863
 Date: 10/6/2019
 Well Name: Bogges 1H
 Stage No.: 46

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/A/E: 100343

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	3,000.20	✓ CWT	\$ 5.50	\$ 16,501.10
SAND 40/70	40/70 white	1,997.80	✓ CWT	\$ 5.75	\$ 11,487.35
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	197	✓ GAL	\$ 17.75	\$ 3,496.75
BIOC11219A	Biocide @ 0.25 GPT	99	✓ GAL	\$ 16.00	\$ 1,584.00
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		249.9	TON	\$ 55.00	\$ 13,744.50
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,593.70
				25% Discount Applied	\$ 16,898.43
				Net Stage Total	\$ 50,695.28

(Print Name) Customer Rep: Mike Turner Customer Signature: 

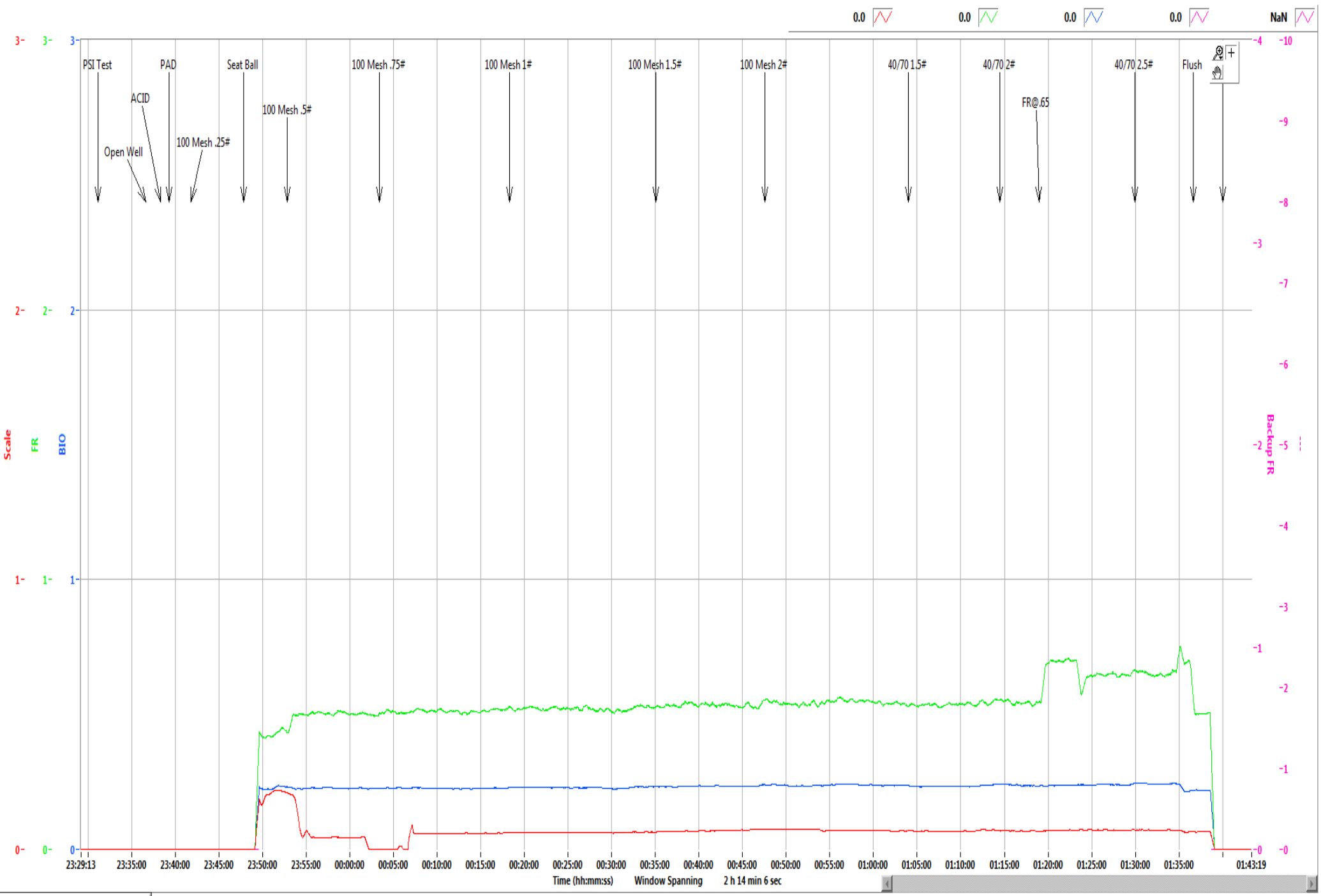


NNE
Boggess 1H
Stage 47
Producers Service Corp.

Post Stage Report
October 7, 2019



Refresh Graph



Refresh Graph

Boggess Pad 1H

Stage	47
Date:	10/6/19
OWP (psi):	3,399
Starting Time	11:36 PM
Ending Time	1:39 AM
Pump Time (hr:min)	02:03
Swap Time (hr:min)	01:55
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,011
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	7,821
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,467
Displacement (psi)	7,793
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,883
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)	9,143
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	168
Pad (bbls)	88
Treatment (bbls)	8,803
Displacement (bbls)	258
(Acid Included) Total (bbls)	9,155
Dirty Job Total (bbls)	9,604
100 Mesh	299,120
40/70	202,080
Total Proppant (lbs)	501,200
Total Proppant %	100.2%

CHEMICALS

FR 9800	205
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 #: 23865
 Date: 10/7/2019
 Well Name: Bogges 1H
 Stage No.: 47

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100343

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	2,991.20	CWT	\$ 5.50	\$ 16,451.60
SAND 40/70	40/70 white	2,020.80	CWT	\$ 5.75	\$ 11,619.60
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	205	GAL	\$ 17.75	\$ 3,638.75
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		250.6	TON	\$ 55.00	\$ 13,783.00
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,872.95
				25% Discount Applied	\$ 16,968.24
				Net Stage Total	\$ 50,904.71

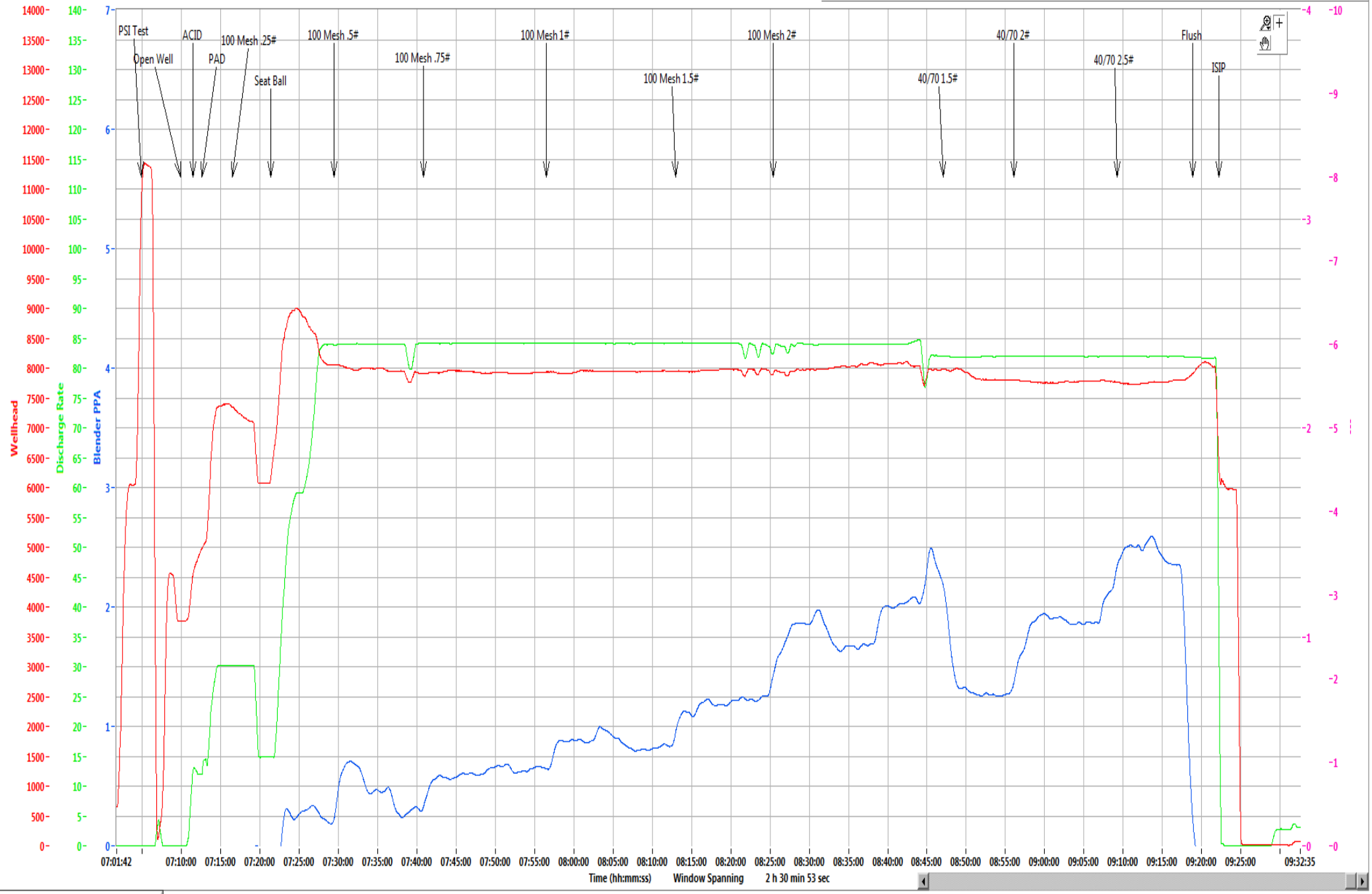
(Print Name) Customer Rep: Mike Toman Customer Signature: 



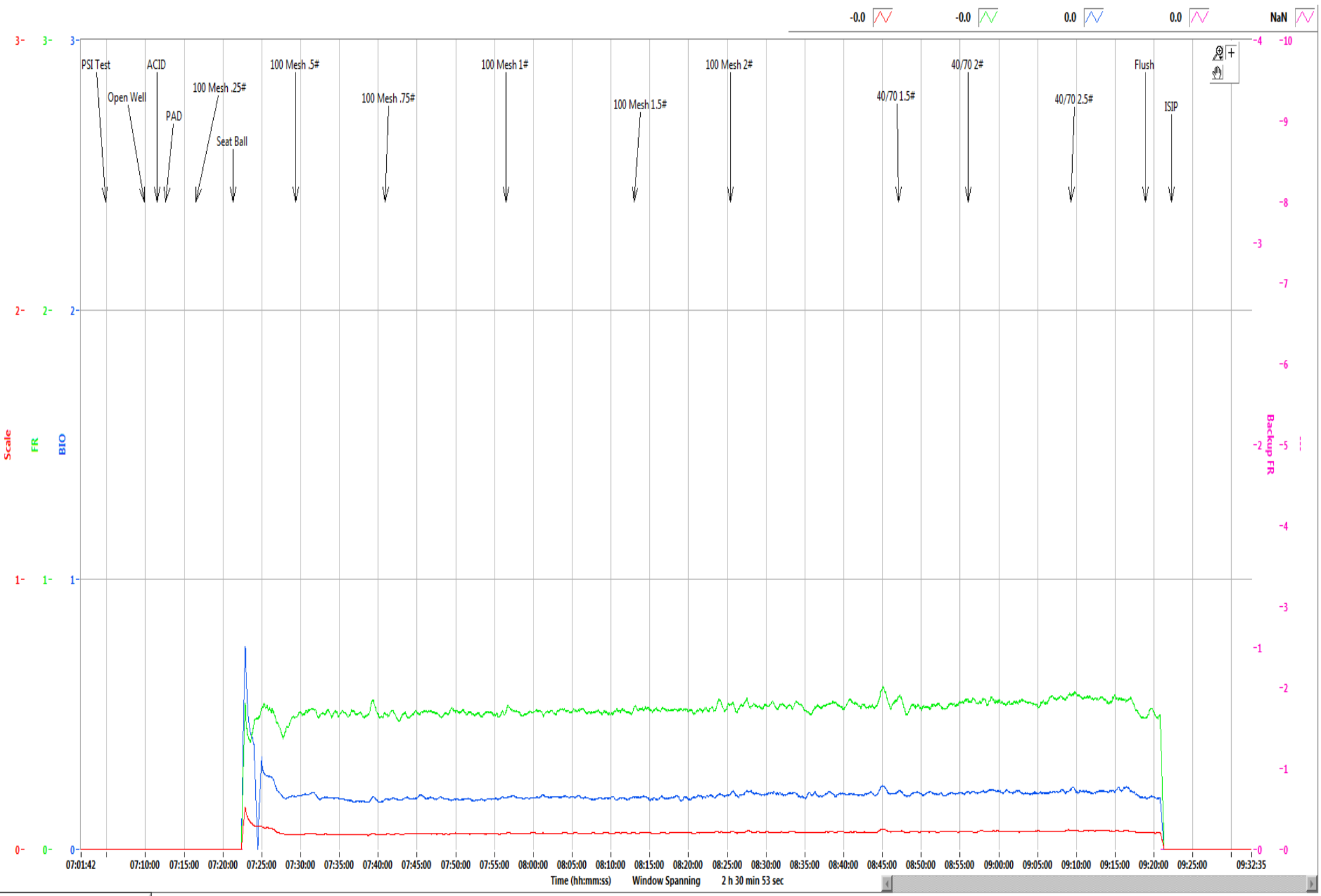
NNE
Boggess 1H
Stage 48
Producers Service Corp.

Post Stage Report
October 7, 2019

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Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	48
Date:	10/7/19
OWP (psi):	3,762
Starting Time	7:09 AM
Ending Time	9:22 AM
Pump Time (hr:min)	02:13
Swap Time (hr:min)	02:33
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,668
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	7,917
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,157
Displacement (psi)	7,929
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,759
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)	9,720
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	165
Pad (bbls)	104
Treatment (bbls)	9,373
Displacement (bbls)	255
(Acid Included) Total (bbls)	9,732
Dirty Job Total (bbls)	10,149
100 Mesh	311,880
40/70	188,400
Total Proppant (lbs)	500,280
Total Proppant %	100.1%

CHEMICALS

FR 9800	204
Biocide	102
Scale	20

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



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

Invoice #: 23867
 Date: 10/7/2019
 Well Name: Bogges 1H
 Stage No.: 48

State: WV
 County: Monongahela
 Operator: Moon/Tilton
 PO/AFE: 100343

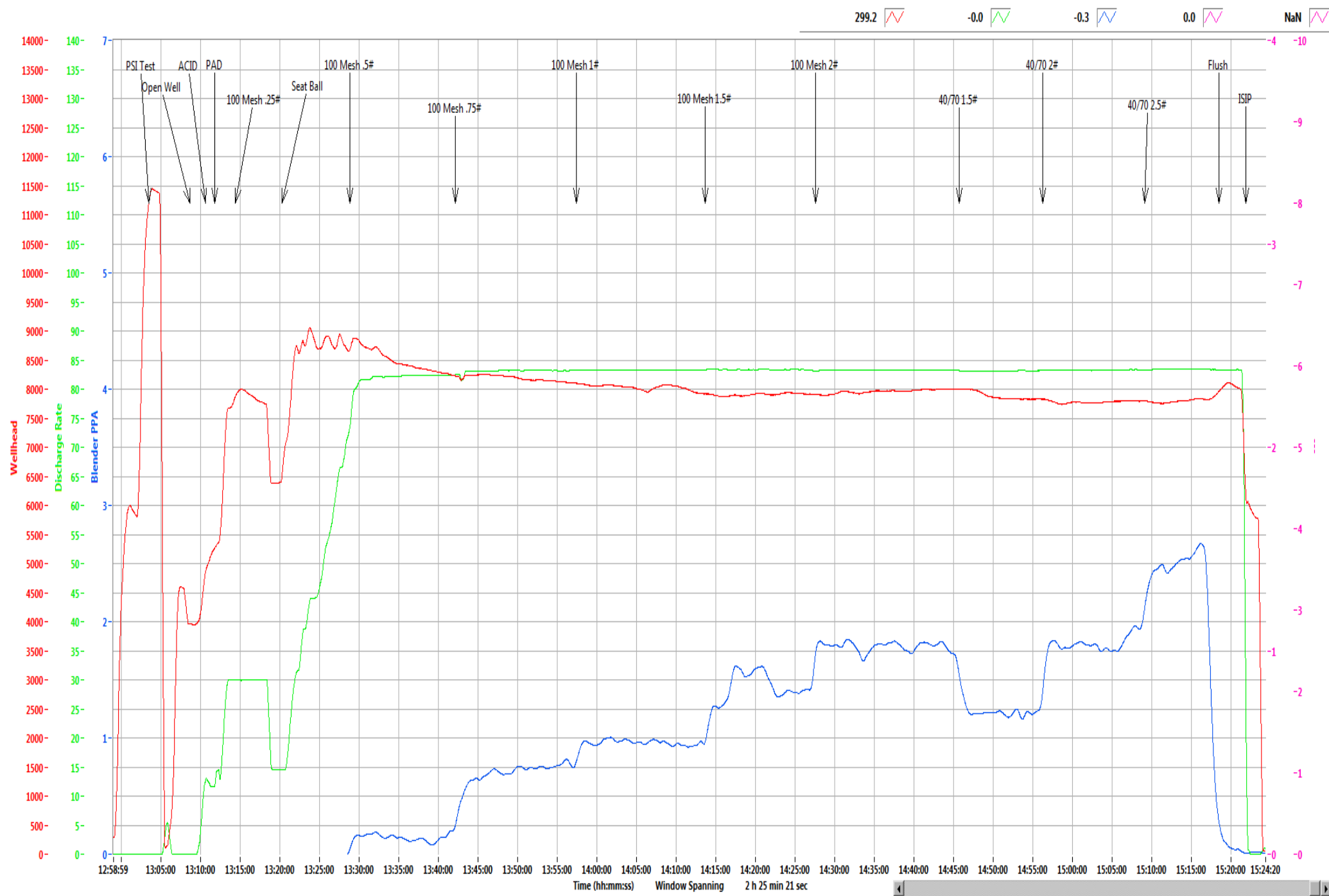
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,118.80	CWT	\$ 5.50	\$ 17,153.40
SAND 40/70	40/70 white	1,884.00	CWT	\$ 5.75	\$ 10,833.00
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	204	GAL	\$ 17.75	\$ 3,621.00
BIOC11219A	Biocide @ 0.25 GPT	102	GAL	\$ 16.00	\$ 1,632.00
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		250.14	TON	\$ 55.00	\$ 13,757.70
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,777.10
				25% Discount Applied	\$ 16,944.28
				Net Stage Total	\$ 50,832.83

(Print Name) Rob Cozart Customer Signature: [Signature]

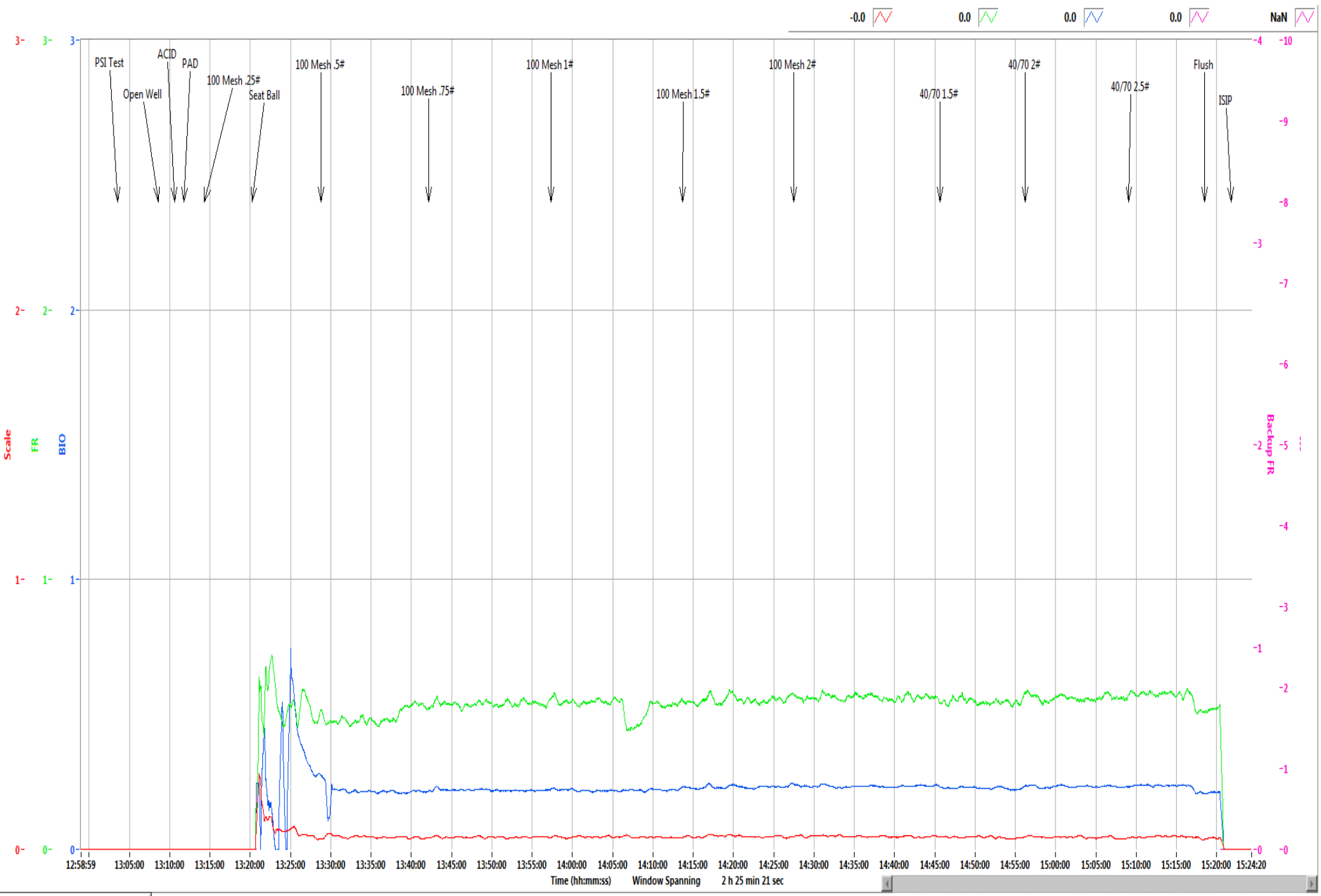


NNE
Boggess 1H
Stage 49
Producers Service Corp.

Post Stage Report
October 7, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	49
Date:	10/7/19
OWP (psi):	3,956
Starting Time	1:08 PM
Ending Time	3:21 PM
Pump Time (hr:min)	02:13
Swap Time (hr:min)	03:46
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,144
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,009
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	9,131
Displacement (psi)	8,002
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,025
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)	9,667
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	162
Pad (bbls)	64
Treatment (bbls)	9,360
Displacement (bbls)	254
(Acid Included) Total (bbls)	9,679
Dirty Job Total (bbls)	10,084
100 Mesh	317,520
40/70	188,460
Total Proppant (lbs)	505,980
Total Proppant %	101.2%

CHEMICALS

FR 9800	203
Biocide	102
Scale	20

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



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

Invoice #: 23868
 Date: 10/7/2019
 Well Name: Boggess 1H
 Stage No.: 49

State: WV
 County: Monongahela
 Operator: Moon/Tilton
 PO/A/E: 100343

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	3,175.20	CWT	\$ 5.50	\$ 17,463.60
SAND 40/70	40/70 white	1,884.60	CWT	\$ 5.75	\$ 10,836.45
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	203	GAL	\$ 17.75	\$ 3,603.25
BIOC11219A	Biocide @ 0.25 GPT	102	GAL	\$ 16.00	\$ 1,632.00
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		252.99	TON	\$ 55.00	\$ 13,914.45
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,229.75
				25% Discount Applied	\$ 17,057.44
				Net Stage Total	\$ 51,172.31

(Print Name) Customer Rep: Rob Cowger

Customer Signature: *Rob Cowger*

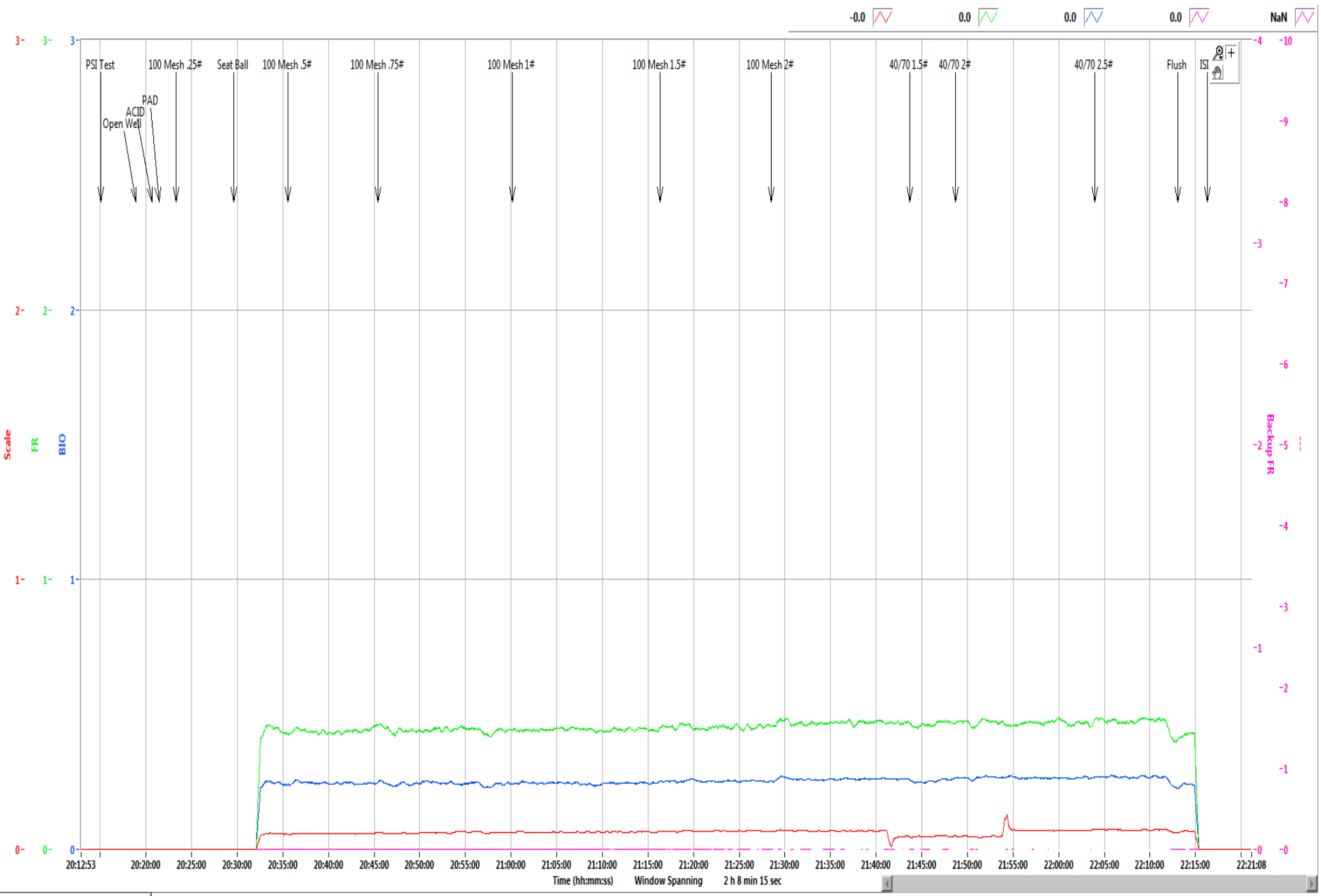


NNE
Bogges 1H
Stage 50
Producers Service Corp.

Post Stage Report
October 7, 2019



Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	50
Date:	10/7/19
OWP (psi):	3,672
Starting Time	8:18 PM
Ending Time	10:13 PM
Pump Time (hr:min)	01:55
Swap Time (hr:min)	02:03
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,445
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,156
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,358
Displacement (psi)	7,924
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	
Final FG (psi/ft)	
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)	8,818
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	149
Pad (bbls)	44
Treatment (bbls)	8,530
Displacement (bbls)	248
(Acid Included) Total (bbls)	8,830
Dirty Job Total (bbls)	9,277
100 Mesh	302,320
40/70	200,260
Total Proppant (lbs)	502,580
Total Proppant %	100.5%

CHEMICALS

FR 9800	189
Biocide	95
Scale	23

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




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

Invoice #: 23870
 Date: 10/7/2019
 Well Name: Bogges 1H
 Stage No.: 50

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100343

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	3,023.20	CWT	\$ 5.50	\$ 16,627.60
SAND 40/70	40/70 white	2,002.60	CWT	\$ 5.75	\$ 11,514.95
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	189	GAL	\$ 17.75	\$ 3,354.75
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
SCAL16846A	Scale Control @ 0.05 GPT	23	GAL	\$ 16.00	\$ 368.00
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		251.29	TON	\$ 55.00	\$ 13,820.95
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,666.25
				25% Discount Applied	\$ 16,916.56
				Net Stage Total	\$ 50,749.69

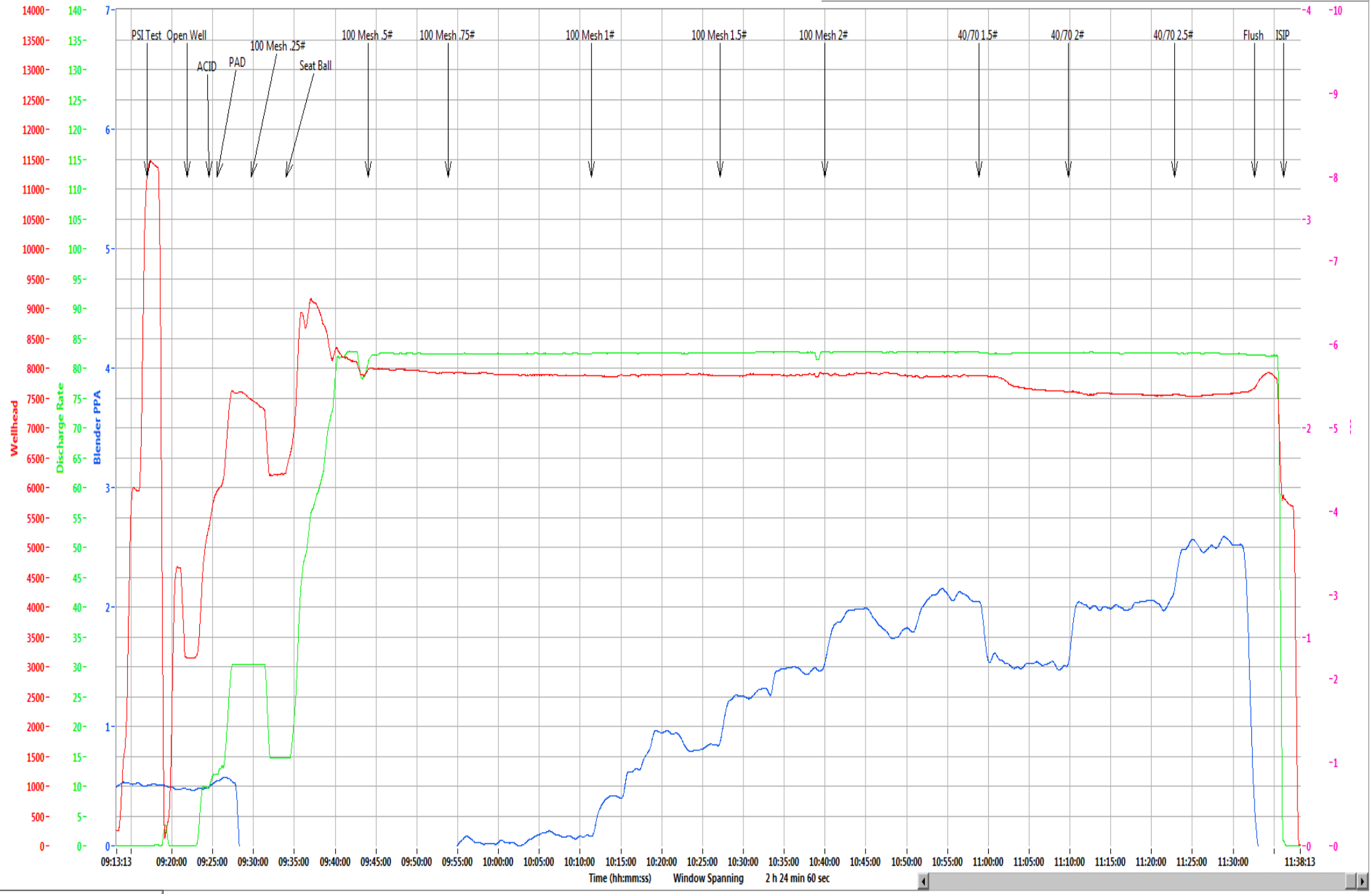
(Print Name) MIKE Inman Customer Signature: 



NNE
Boggess 1H
Stage 51
Producers Service Corp.

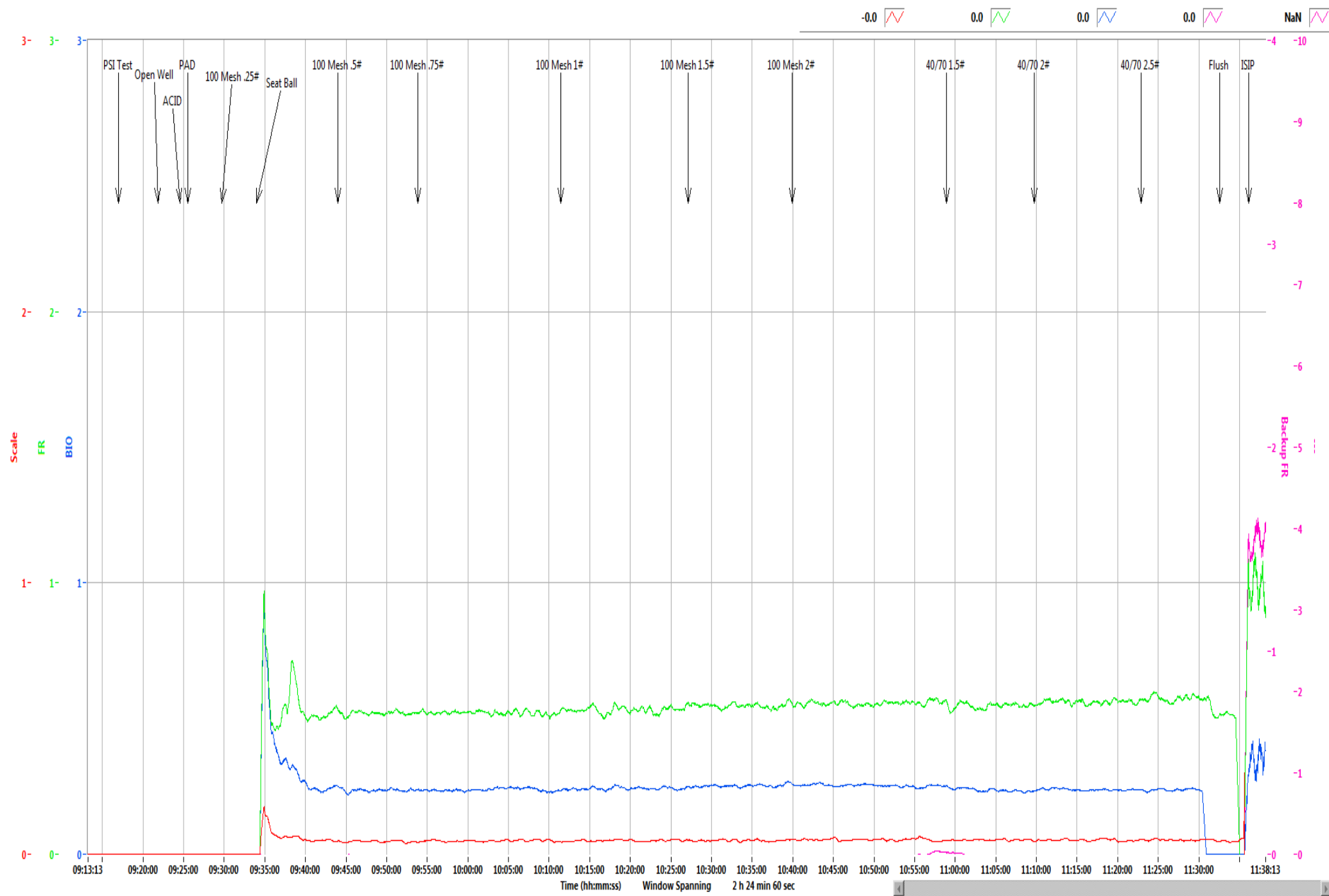
Post Stage Report
October 8, 2019

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Time (hh:mm:ss) Window Spanning 2 h 24 min 60 sec

Refresh Graph



Boggess Pad	1H
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Stage	51
Date:	10/8/19
OWP (psi):	3,150
Starting Time	9:16 AM
Ending Time	11:36 AM
Pump Time (hr:min)	02:20
Swap Time (hr:min)	02:13
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,593
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	7,830
Maximum Treating Rate (bbl/min)	83
Maximum Treating Pressure (psi)	9,219
Displacement (psi)	7,688
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)	9,638
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	154
Pad (bbls)	108
Treatment (bbls)	9,273
Displacement (bbls)	239
(Acid Included) Total (bbls)	9,650
Dirty Job Total (bbls)	10,065
100 Mesh	300,400
40/70	201,280
Total Proppant (lbs)	501,680
Total Proppant %	100.3%

CHEMICALS

FR 9800	214
Biocide	105
Scale	23

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



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

Invoice #: 23872
 Date: 10/8/2019
 Well Name: Bogges 1H
 Stage No.: 51

State: WV
 County: Monongahela
 Operator: Tilton/Moon
 PO/AFE: 100343

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	3,004.00	CWT	\$ 5.50	\$ 16,522.00
SAND 40/70	40/70 white	2,012.80	CWT	\$ 5.75	\$ 11,573.60
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	214	GAL	\$ 17.75	\$ 3,798.50
BIOC11219A	Biocide @ 0.25 GPT	105	GAL	\$ 16.00	\$ 1,680.00
SCAL16846A	Scale Control @ 0.05 GPT	23	GAL	\$ 16.00	\$ 368.00
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		250.84	TON	\$ 55.00	\$ 13,796.20
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,198.30
				25% Discount Applied	\$ 17,049.58
				Net Stage Total	\$ 51,148.73

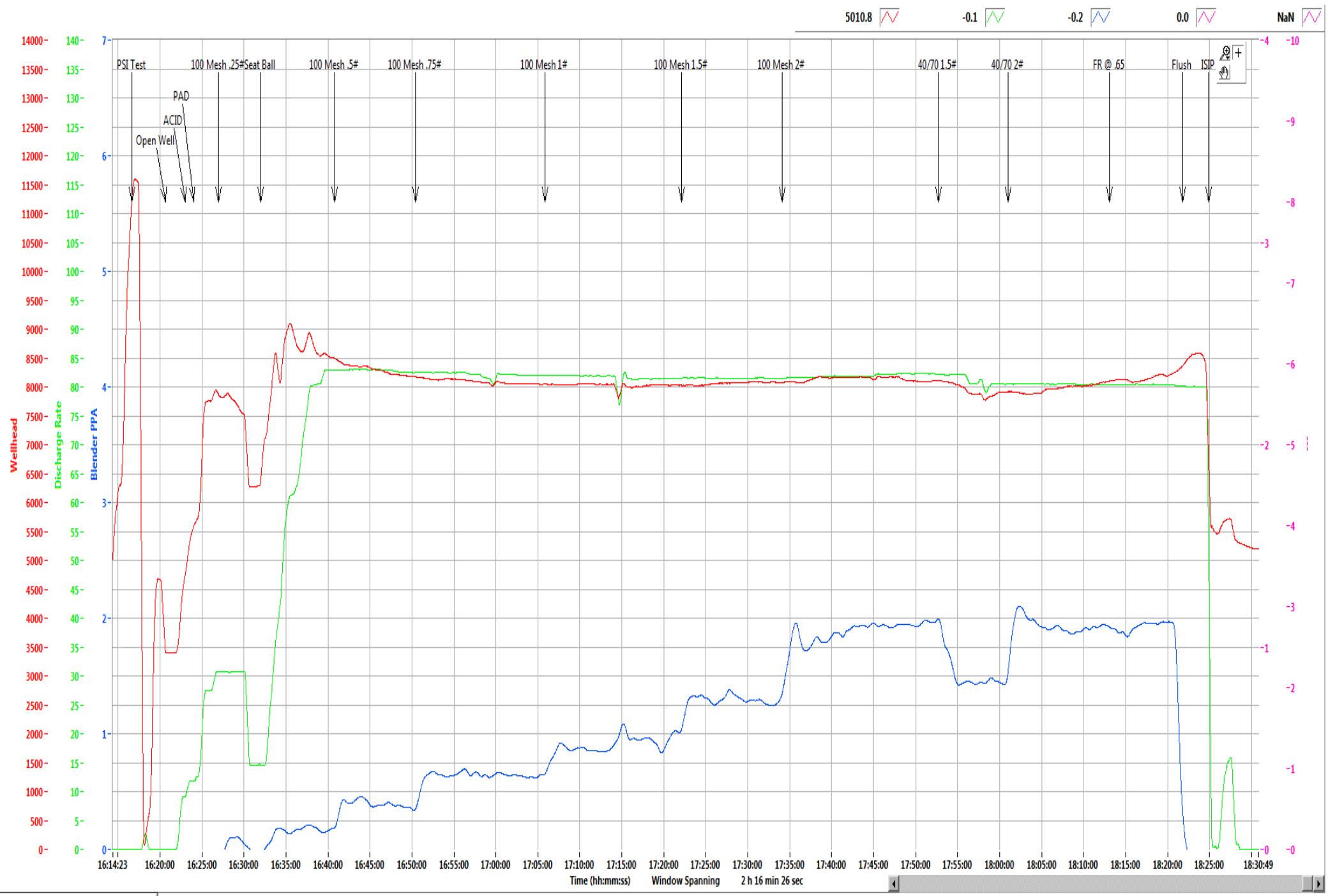
(Print Name) Rob Cowga

Customer Signature: *Rob Cowga*



NNE
Boggess 1H
Stage 52
Producers Service Corp.

Post Stage Report
October 8, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	52
Date:	10/8/19
OWP (psi):	3,393
Starting Time	4:16 PM
Ending Time	6:24 PM
Pump Time (hr:min)	02:08
Swap Time (hr:min)	01:00
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,197
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,101
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	9,192
Displacement (psi)	8,403
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,802
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)	9,011
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	125
Pad (bbls)	70
Treatment (bbls)	8,714
Displacement (bbls)	235
(Acid Included) Total (bbls)	9,023
Dirty Job Total (bbls)	9,380
100 Mesh	303,740
40/70	178,200
Total Proppant (lbs)	481,940
Total Proppant %	96.4%

CHEMICALS

FR 9800	198
Biocide	95
Scale	23

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



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

Invoice #: 23874
 Date: 10/8/2019
 Well Name: Boggess 1H
 Stage No.: 52

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100343

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	3,037.40	CWT	\$ 5.50	\$ 16,705.70
SAND 40/70	40/70 white	1,782.00	CWT	\$ 6.75	\$ 10,246.50
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	198	GAL	\$ 17.75	\$ 3,514.50
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
SCAL 16846A	Scale Control @ 0.05 GPT	23	GAL	\$ 16.00	\$ 368.00
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		240.97	TON	\$ 55.00	\$ 13,253.35
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 66,068.05
 25% Discount Applied \$ 16,517.01
 Net Stage Total \$ 49,551.04

(Print Name) _____
 Customer Rep: Joe/Brad

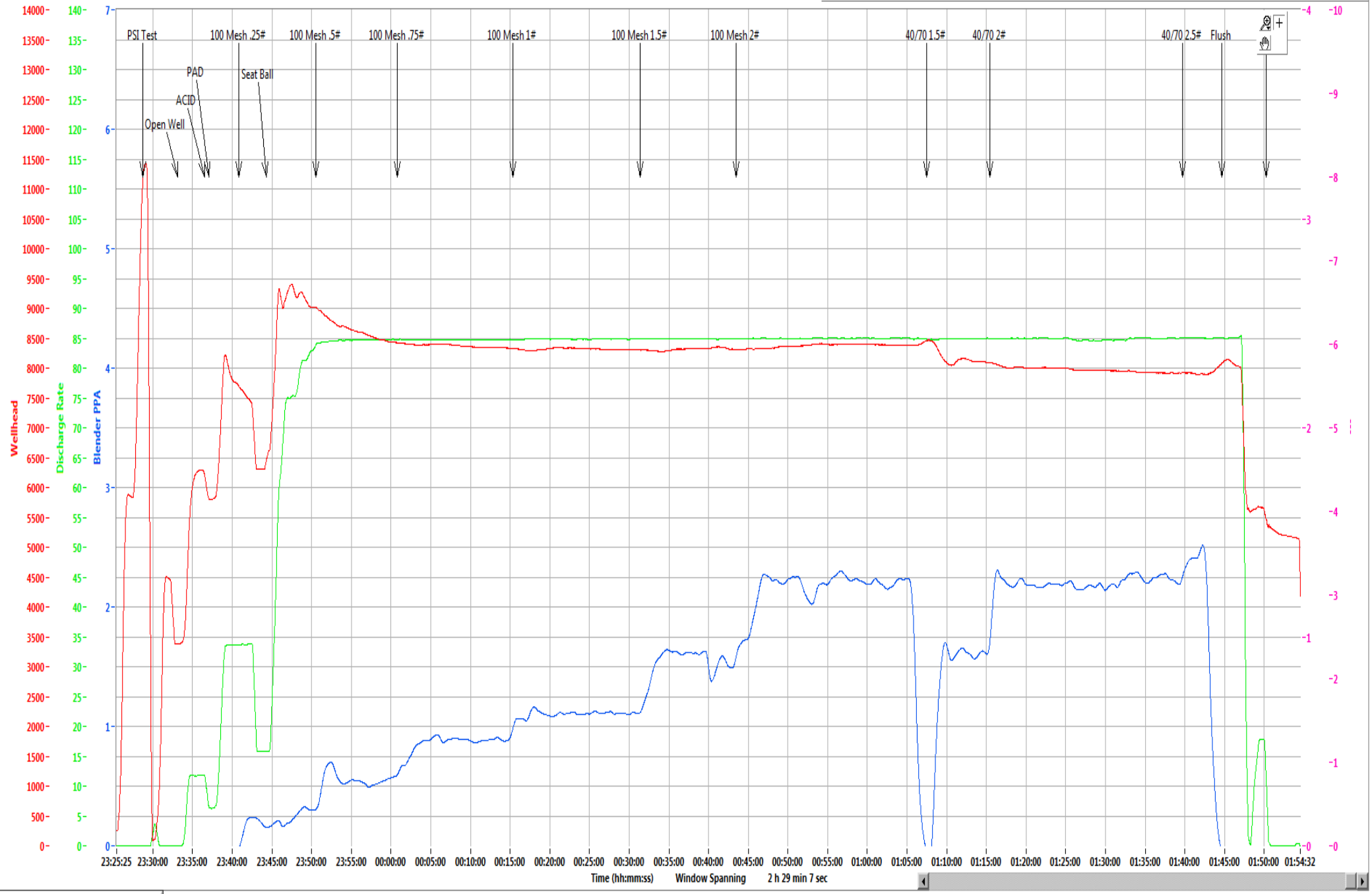
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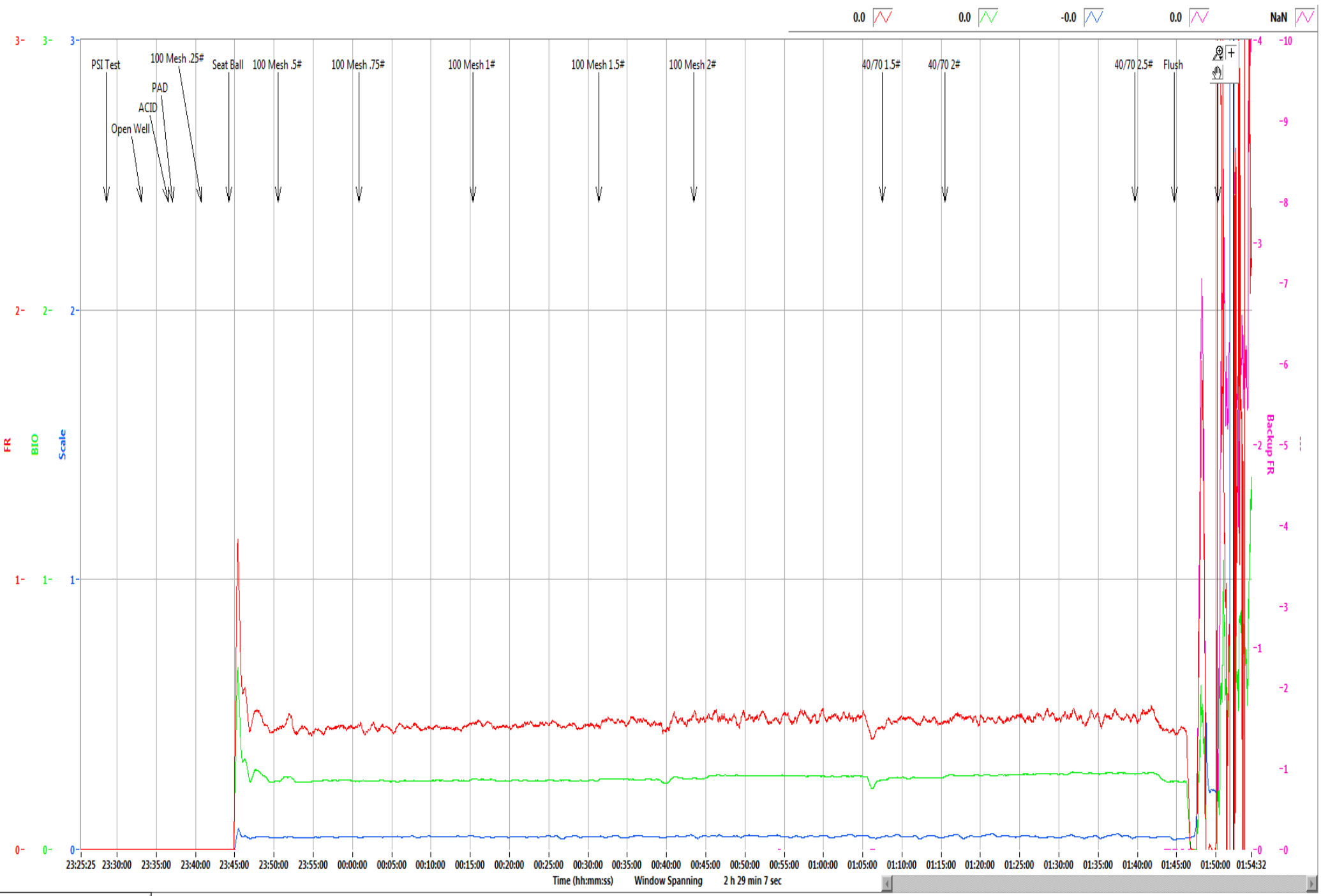
NNE
Boggess 1H
Stage 53
Producers Service Corp.

Post Stage Report
October 9, 2019

259.9 -0.0 -0.4 0.0 NaN



Refresh Graph



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Boggess Pad	1H
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Stage	53
Date:	10/8/19
OWP (psi):	3,378
Starting Time	11:33 PM
Ending Time	1:50 AM
Pump Time (hr:min)	02:17
Swap Time (hr:min)	00:37
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,625
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,299
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,488
Displacement (psi)	8,103
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,419
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)	10,309
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	120
Pad (bbls)	92
Treatment (bbls)	9,956
Displacement (bbls)	259
(Acid Included) Total (bbls)	10,321
Dirty Job Total (bbls)	10,720
100 Mesh	300,200
40/70	203,860
Total Proppant (lbs)	504,060
Total Proppant %	100.8%

CHEMICALS

FR 9800	210
Biocide	105
Scale	25

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



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

Invoice #: 23876
 Date: 10/9/2019
 Well Name: Bogges 1H
 Stage No.: 53

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100343

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	3,002.00	CWT	\$ 5.50	\$ 16,511.00
SAND 40/70	40/70 white	2,038.60	CWT	\$ 5.75	\$ 11,721.95
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	210	GAL	\$ 17.75	\$ 3,727.50
BIOC11219A	Biocide @ 0.25 GPT	105	GAL	\$ 16.00	\$ 1,680.00
SCAL16846A	Scale Control @ 0.05 GPT	25	GAL	\$ 16.00	\$ 400.00
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		252.03	TON	\$ 55.00	\$ 13,861.65
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,362.10
				25% Discount Applied	\$ 17,090.53
				Net Stage Total	\$ 51,271.58

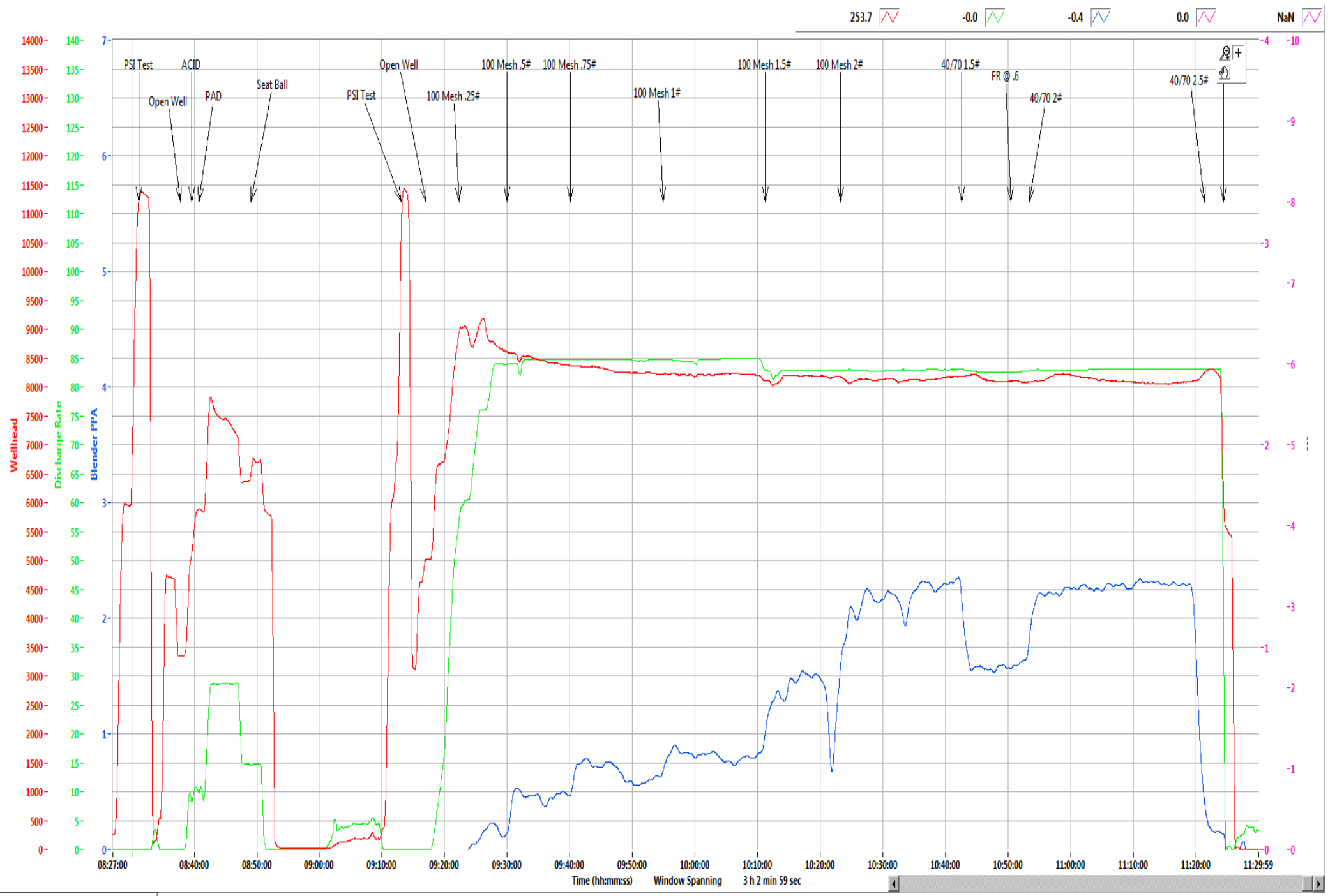
(Print Name)
 Customer Rep: Boyd

Customer Signature: [Signature]



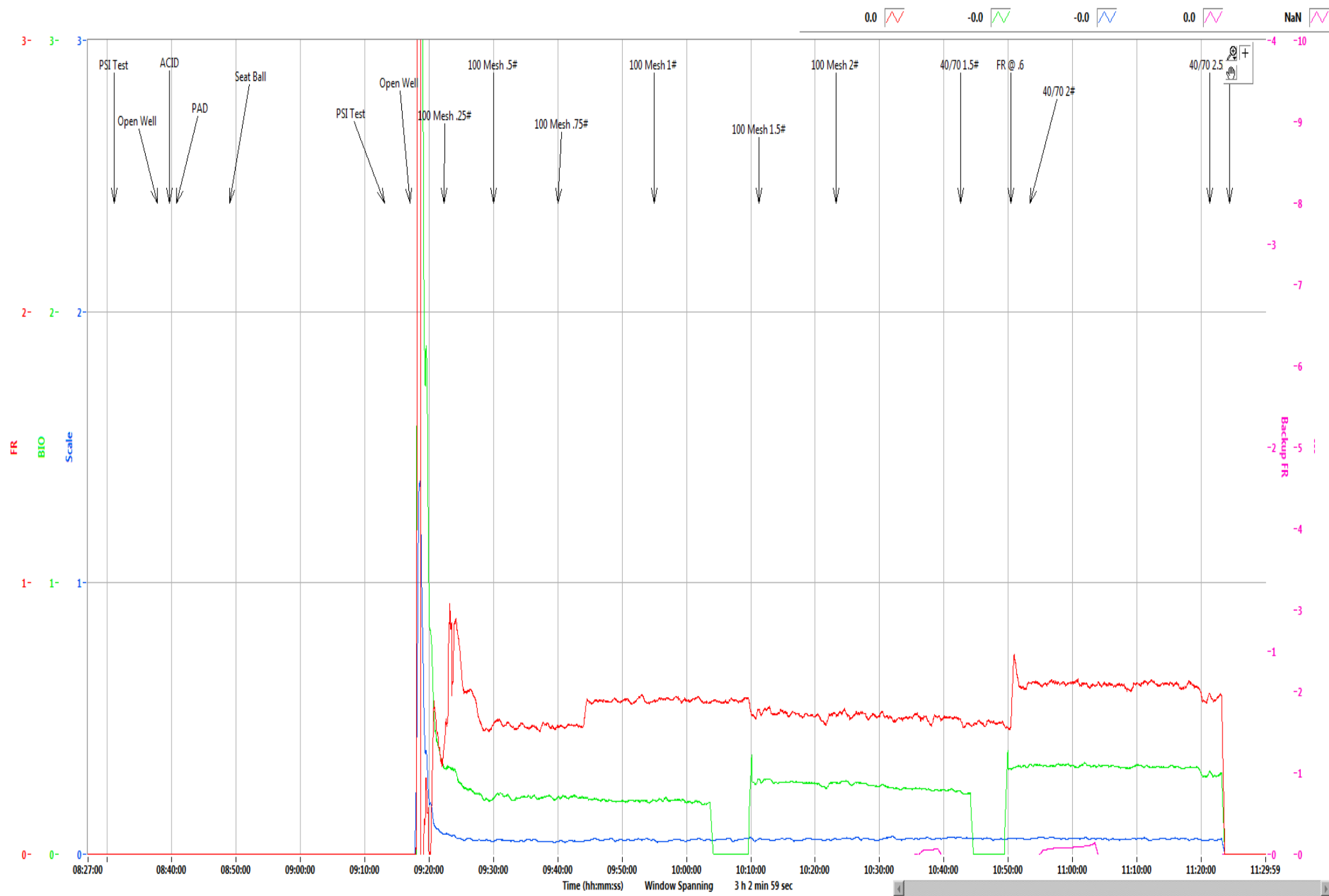
NNE
Boggess 1H
Stage 54
Producers Service Corp.

Post Stage Report
October 9, 2019



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Refresh Graph



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Boggess Pad	1H
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Stage	54
Date:	10/9/19
OWP (psi):	3,342
Starting Time	8:37 AM
Ending Time	11:24 AM
Pump Time (hr:min)	02:47
Swap Time (hr:min)	02:24
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,853
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,234
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,261
Displacement (psi)	8,257
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,565
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)	10,129
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	126
Pad (bbls)	350
Treatment (bbls)	9,556
Displacement (bbls)	235
(Acid Included) Total (bbls)	10,141
Dirty Job Total (bbls)	10,534
100 Mesh	299,400
40/70	199,560
Total Proppant (lbs)	498,960
Total Proppant %	99.8%

CHEMICALS

FR 9800	224
Biocide	106
Scale	21

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



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

Invoice #: 23878
 Date: 10/9/2019
 Well Name: Bogges 1H
 Stage No.: 54

State: WV
 County: Monongahela
 Operator: Jeremy/Jeremy/Mark
 PO/AFE: 100343

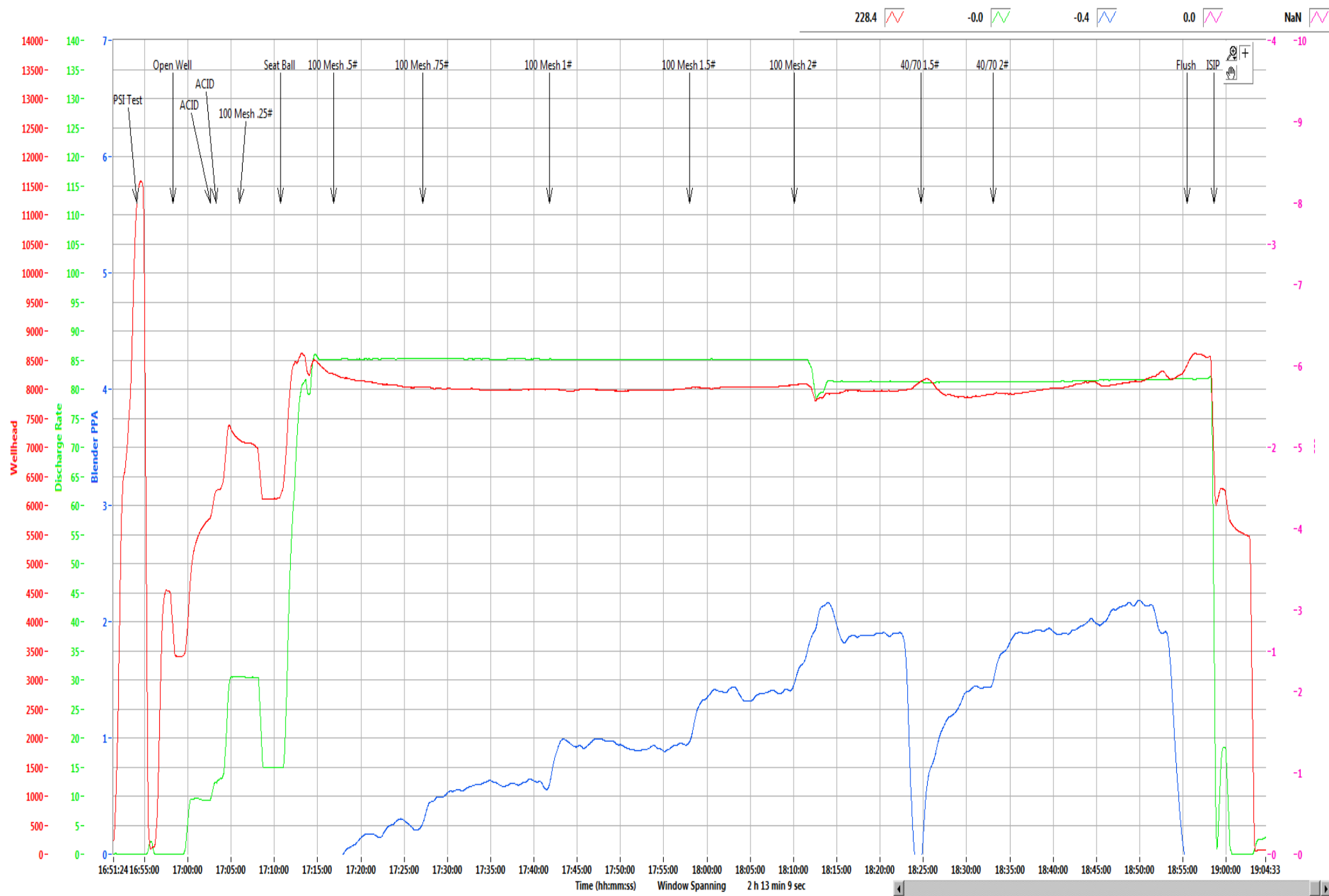
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	2,994.00	CWT	\$ 5.50	\$ 16,467.00
SAND 40/70	40/70 white	1,996.60	CWT	\$ 5.75	\$ 11,474.70
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	224	GAL	\$ 17.75	\$ 3,976.00
BIOC11219A	Biocide @ 0.25 GPT	106	GAL	\$ 16.00	\$ 1,696.00
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		249.48	TON	\$ 55.00	\$ 13,721.40
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,131.10
				25% Discount Applied	\$ 17,032.78
				Net Stage Total	\$ 51,098.33

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



NNE
Boggess 1H
Stage 55
Producers Service Corp.

Post Stage Report
October 9, 2019



Refresh Graph



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Refresh Graph

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

Boggess Pad**1H**

Stage	55
Date:	10/9/19
OWP (psi):	3,413
Starting Time	4:58 PM
Ending Time	6:58 PM
Pump Time (hr:min)	02:00
Swap Time (hr:min)	01:51
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,413
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,025
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,687
Displacement (psi)	8,457
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,918
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)	8,886
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	106
Pad (bbls)	64
Treatment (bbls)	8,592
Displacement (bbls)	237
(Acid Included) Total (bbls)	8,898
Dirty Job Total (bbls)	9,248
100 Mesh	299,940
40/70	172,060
Total Proppant (lbs)	472,000
Total Proppant %	94.4%

CHEMICALS

FR 9800	189
Biocide	95
Scale	21

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



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

Invoice #: 23880
 Date: 10/9/2019
 Well Name: Boggress 1H
 Stage No.: 55

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100343

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	2,999.40	CWT	\$ 5.50	\$ 16,496.70
SAND 40/70	40/70 white	1,720.60	CWT	\$ 5.75	\$ 9,893.45
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	189	GAL	\$ 17.75	\$ 3,354.75
BIOC11219A	Biocide @ 0.25 GPT	95	GAL	\$ 16.00	\$ 1,520.00
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		236	TON	\$ 55.00	\$ 12,980.00
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 65,040.90
 25% Discount Applied \$ 16,260.23
 Net Stage Total \$ 48,780.68

(Print Name) Boyd Customer Signature: [Signature]



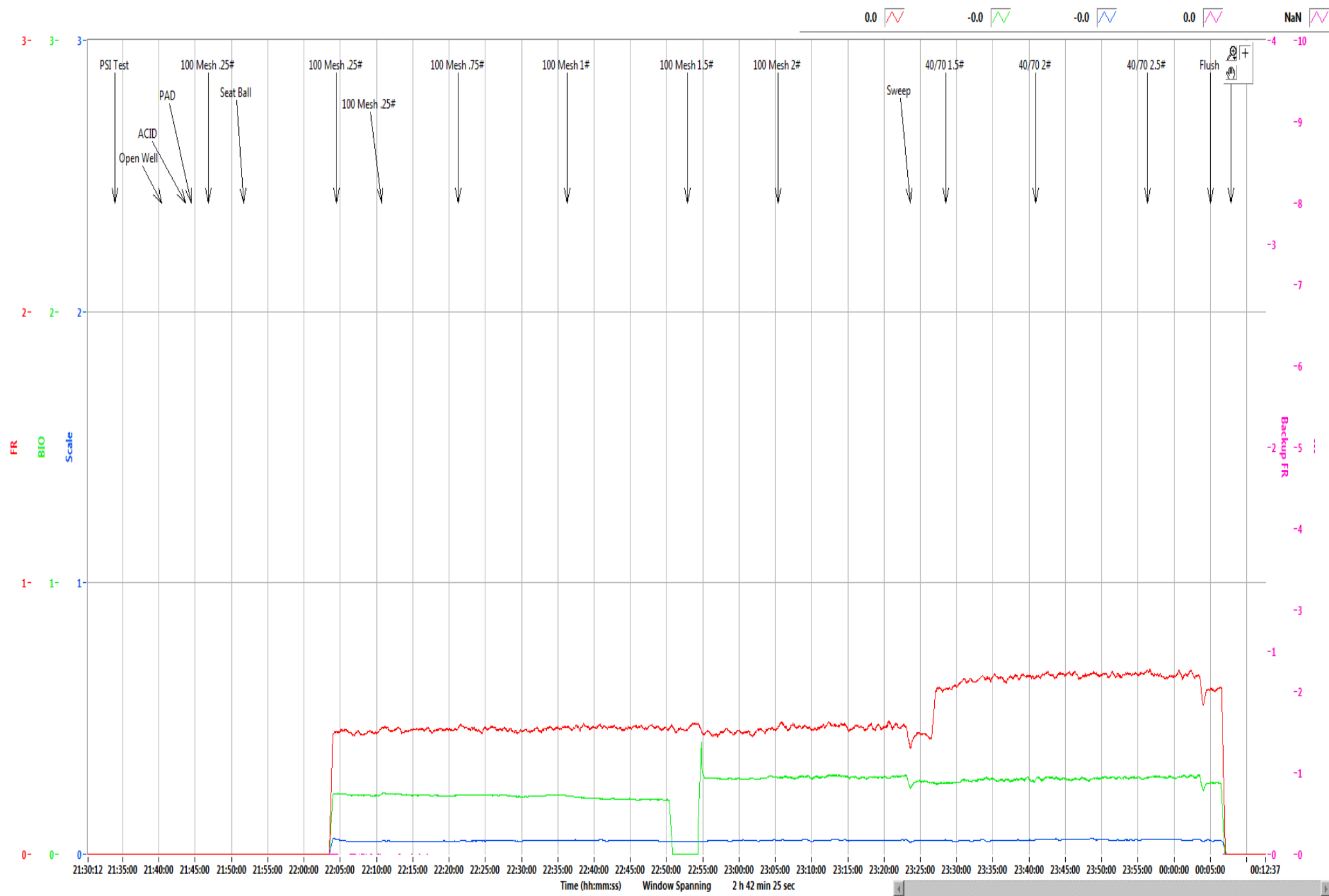
NNE
Bogges 1H
Stage 56
Producers Service Corp.

Post Stage Report
October 10, 2019

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Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	56
Date:	10/9/19
OWP (psi):	3,945
Starting Time	9:40 PM
Ending Time	12:07 AM
Pump Time (hr:min)	02:27
Swap Time (hr:min)	02:42
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,564
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,269
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,961
Displacement (psi)	8,523
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,515
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)	10,507
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	96
Pad (bbls)	60
Treatment (bbls)	10,234
Displacement (bbls)	218
(Acid Included) Total (bbls)	10,519
Dirty Job Total (bbls)	10,908
100 Mesh	300,420
40/70	198,560
Total Proppant (lbs)	498,980
Total Proppant %	99.8%

CHEMICALS

FR 9800	241
Biocide	111
Scale	25

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



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

Invoice #: 23881
 Date: 10/10/2019
 Well Name: Boggess 1H
 Stage No.: 56

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/A/E: 100343

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	3,004.20	CWT	\$ 5.50	\$ 16,523.10
SAND 40/70	40/70 white	1,985.60	CWT	\$ 5.75	\$ 11,417.20
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	241	GAL	\$ 17.75	\$ 4,277.75
BIOC11219A	Biocide @ 0.25 GPT	111	GAL	\$ 16.00	\$ 1,776.00
SCAL16846A	Scale Control @ 0.05 GPT	25	GAL	\$ 16.00	\$ 400.00
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		249.49	TON	\$ 55.00	\$ 13,721.95
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,576.00
				25% Discount Applied	\$ 17,144.00
				Net Stage Total	\$ 51,432.00

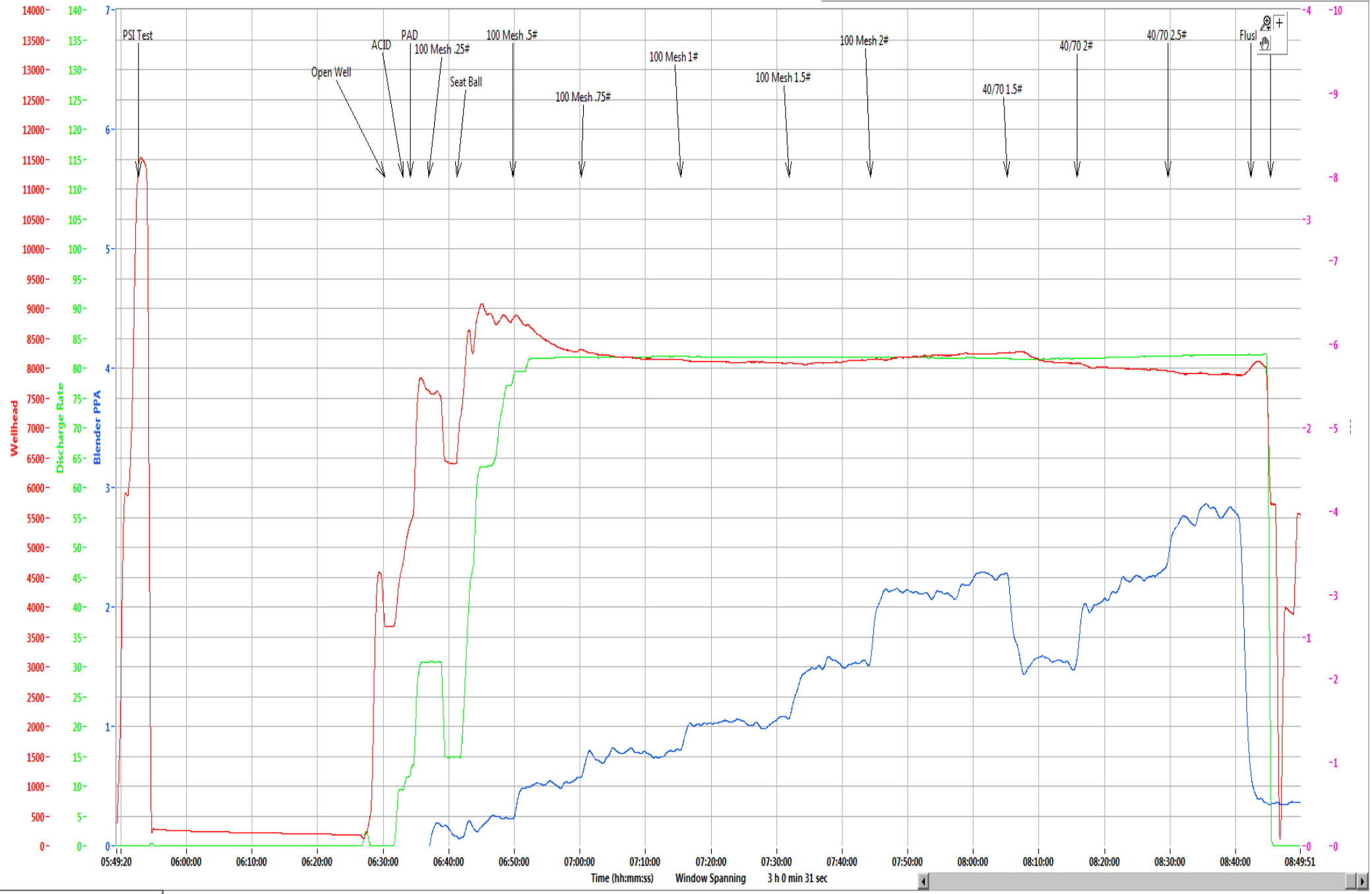
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 Customer Rep: Boyd

Customer Signature: [Signature]

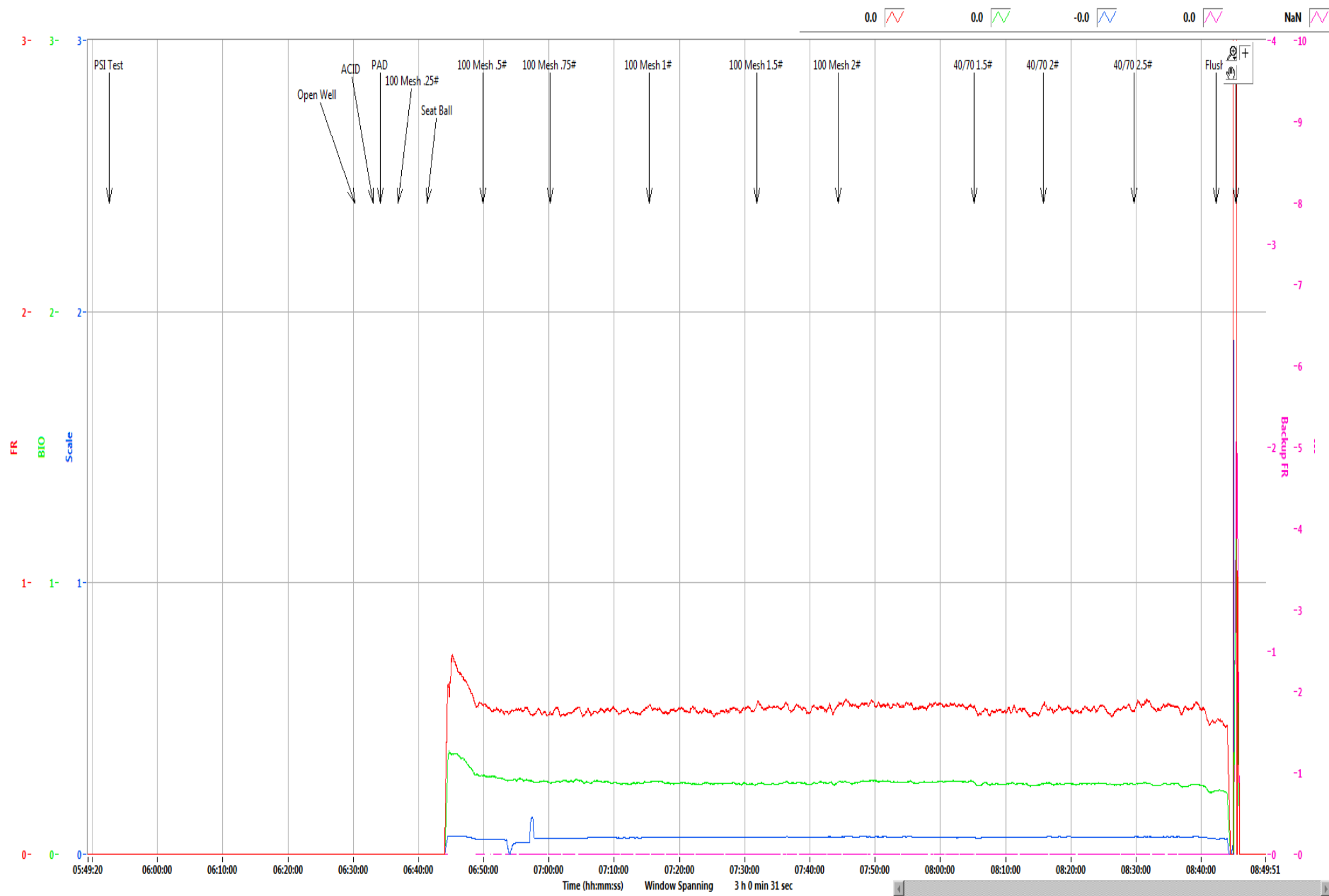


NNE
Boggess 1H
Stage 57
Producers Service Corp.

Post Stage Report
October 10, 2019



Refresh Graph



Refresh Graph

Boggess Pad**1H**

Stage	57
Date:	10/10/19
OWP (psi):	3,685
Starting Time	6:30 AM
Ending Time	8:45 AM
Pump Time (hr:min)	02:15
Swap Time (hr:min)	03:40
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,245
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,128
Maximum Treating Rate (bbl/min)	82
Maximum Treating Pressure (psi)	9,122
Displacement (psi)	8,053
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,741
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)	9,967
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	93
Pad (bbls)	73
Treatment (bbls)	9,690
Displacement (bbls)	216
(Acid Included) Total (bbls)	9,979
Dirty Job Total (bbls)	10,319
100 Mesh	300,120
40/70	200,020
Total Proppant (lbs)	500,140
Total Proppant %	100.0%

CHEMICALS

FR 9800	210
Biocide	105
Scale	21



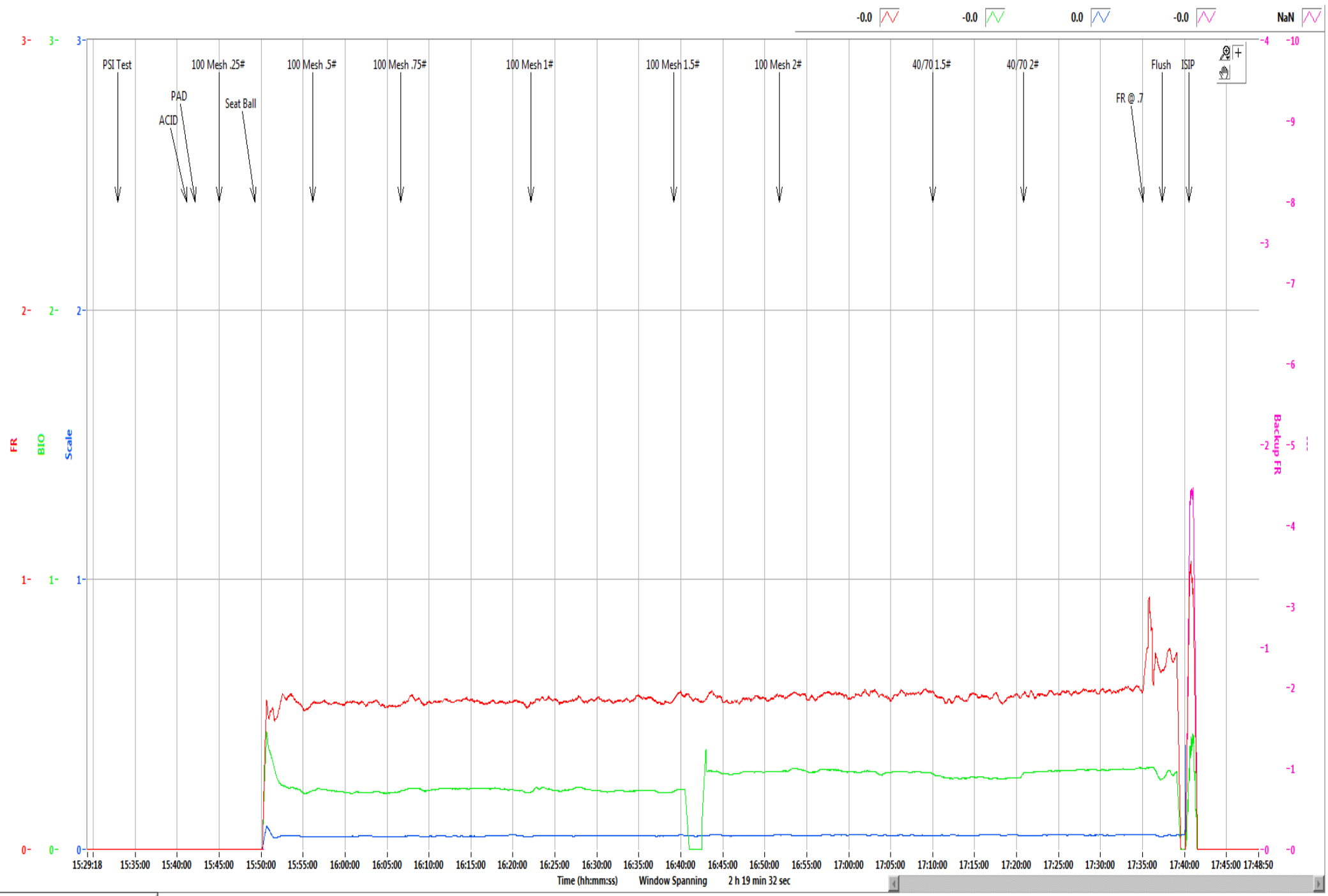
NNE
Boggess 1H
Stage 58
Producers Service Corp.

Post Stage Report
October 10, 2019

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Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	58
Date:	10/10/19
OWP (psi):	3,105
Starting Time	3:38 PM
Ending Time	5:40 PM
Pump Time (hr:min)	02:02
Swap Time (hr:min)	00:38
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,010
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,012
Maximum Treating Rate (bbl/min)	81
Maximum Treating Pressure (psi)	8,695
Displacement (psi)	8,522
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	
Final FG (psi/ft)	
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)	8,855
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	79
Pad (bbls)	66
Treatment (bbls)	8,592
Displacement (bbls)	210
(Acid Included) Total (bbls)	8,867
Dirty Job Total (bbls)	9,148
100 Mesh	297,020
40/70	158,180
Total Proppant (lbs)	455,200
Total Proppant %	91.0%

CHEMICALS

FR 9800	205
Biocide	91
Scale	23

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



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

Invoice #: 23885
Date: 10/10/2019
Well Name: Bogges 1H
Stage No.: 58

State: WV
County: Monongahela
Operator: Jeremy/Mark/Stetson
PO/AFE: 100343

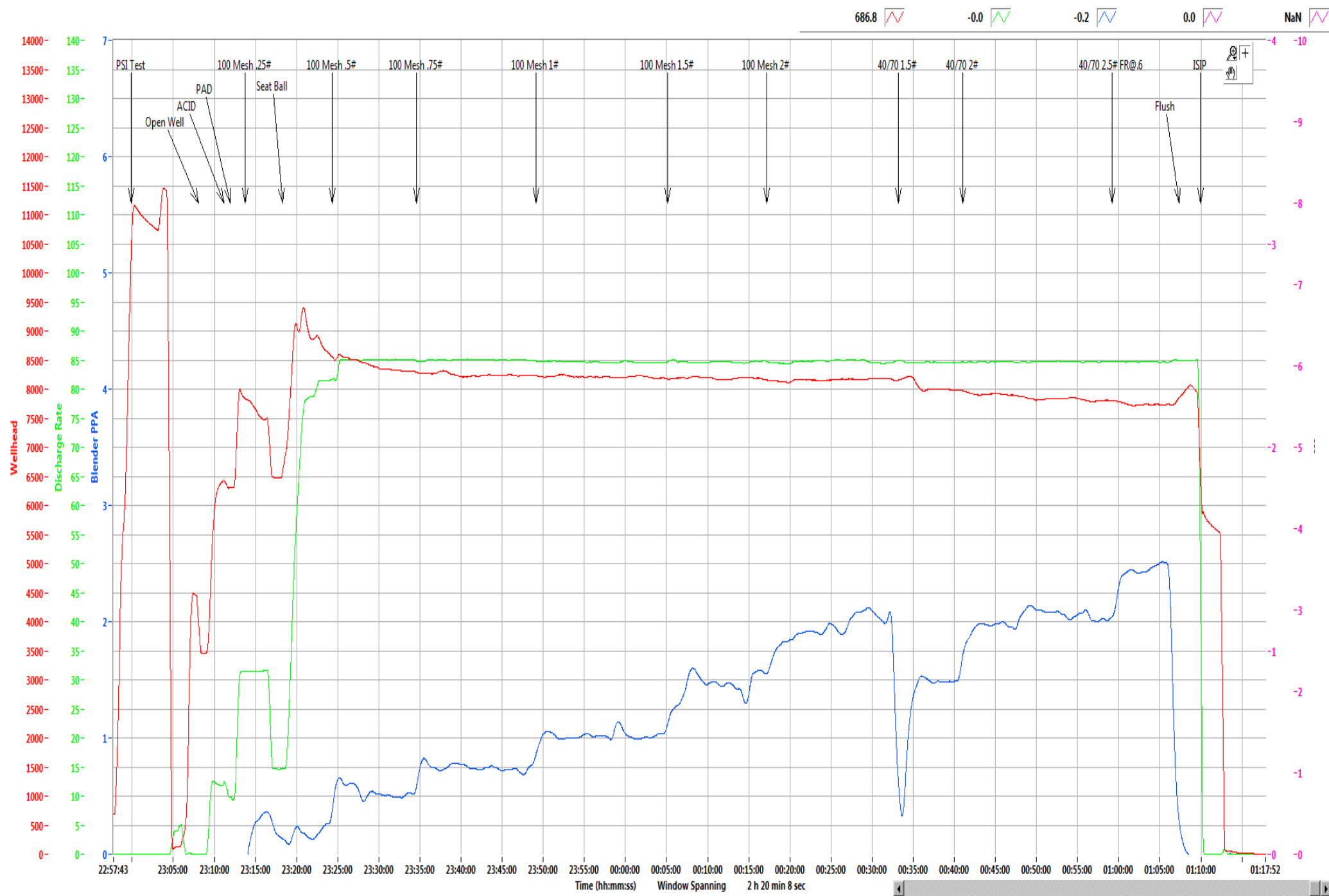
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	2,970.20	CWT	\$ 5.50	\$ 16,336.10
SAND 40/70	40/70 white	1,581.80	CWT	\$ 5.75	\$ 9,095.35
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	180	GAL	\$ 17.75	\$ 3,195.00
BIOC11219A	Biocide @ 0.25 GPT	90	GAL	\$ 16.00	\$ 1,440.00
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		227.6	TON	\$ 55.00	\$ 12,518.00
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
Blender shutdown on 1.5 ppa 100M due to tub paddle malfunction. Flushed well, fixed paddle, and resumed stage. 1927 bbls of fluid were deducted from chemical totals on ticket.				Total No Discount	\$ 63,332.45
				25% Discount Applied	\$ 15,833.11
				Net Stage Total	\$ 47,499.34

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



NNE
Boggess 1H
Stage 59
Producers Service Corp.

Post Stage Report
October 11, 2019



Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	59
Date:	10/10/19
OWP (psi):	3,452
Starting Time	11:08 PM
Ending Time	1:09 AM
Pump Time (hr:min)	02:01
Swap Time (hr:min)	02:27
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,911
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,131
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,551
Displacement (psi)	7,871
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,732
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)	9,355
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	55
Pad (bbls)	44
Treatment (bbls)	9,113
Displacement (bbls)	204
(Acid Included) Total (bbls)	9,367
Dirty Job Total (bbls)	9,555
100 Mesh	306,900
40/70	218,580
Total Proppant (lbs)	525,480
Total Proppant %	105.1%

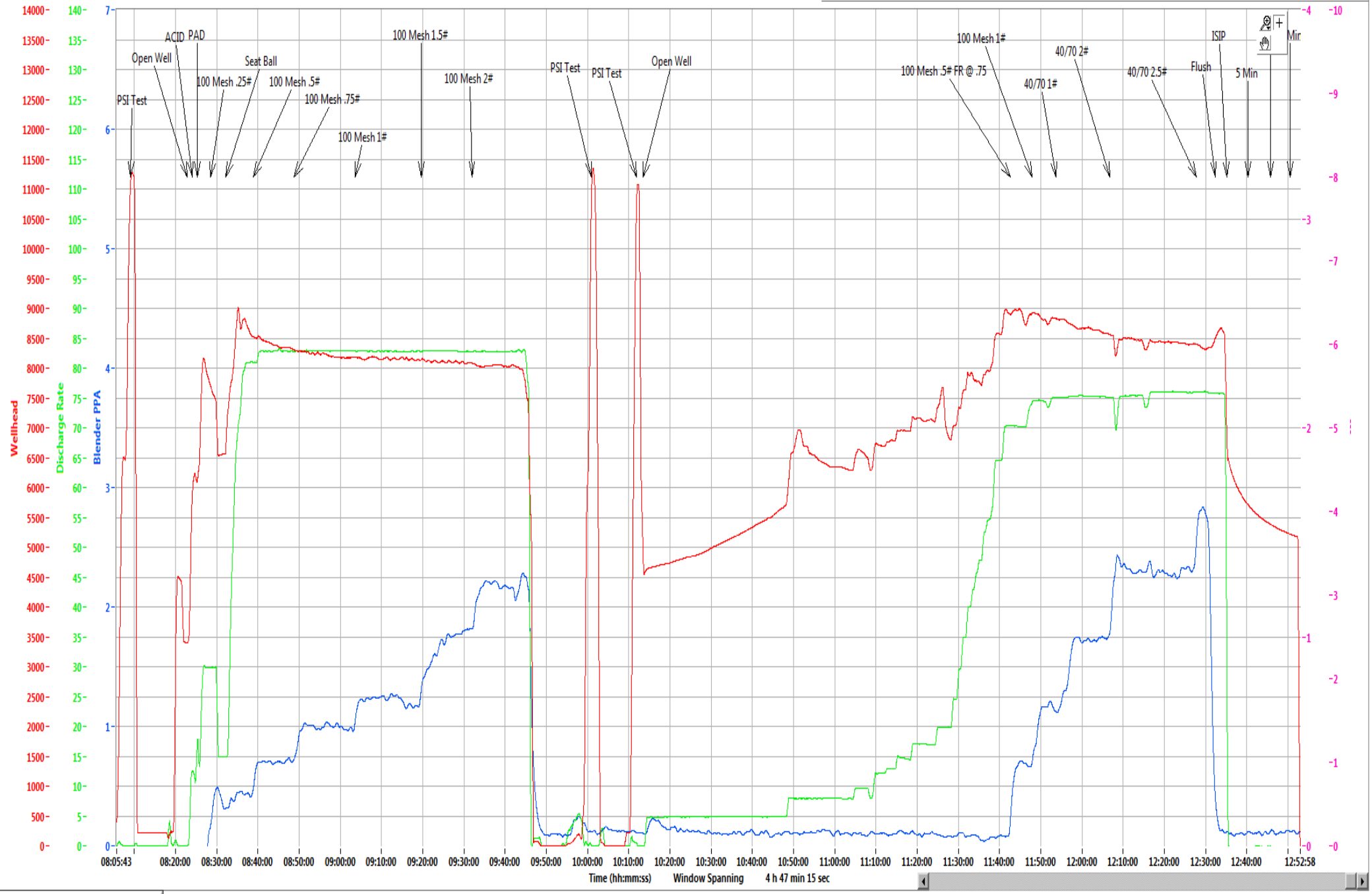
CHEMICALS

FR 9800	207
Biocide	97
Scale	25



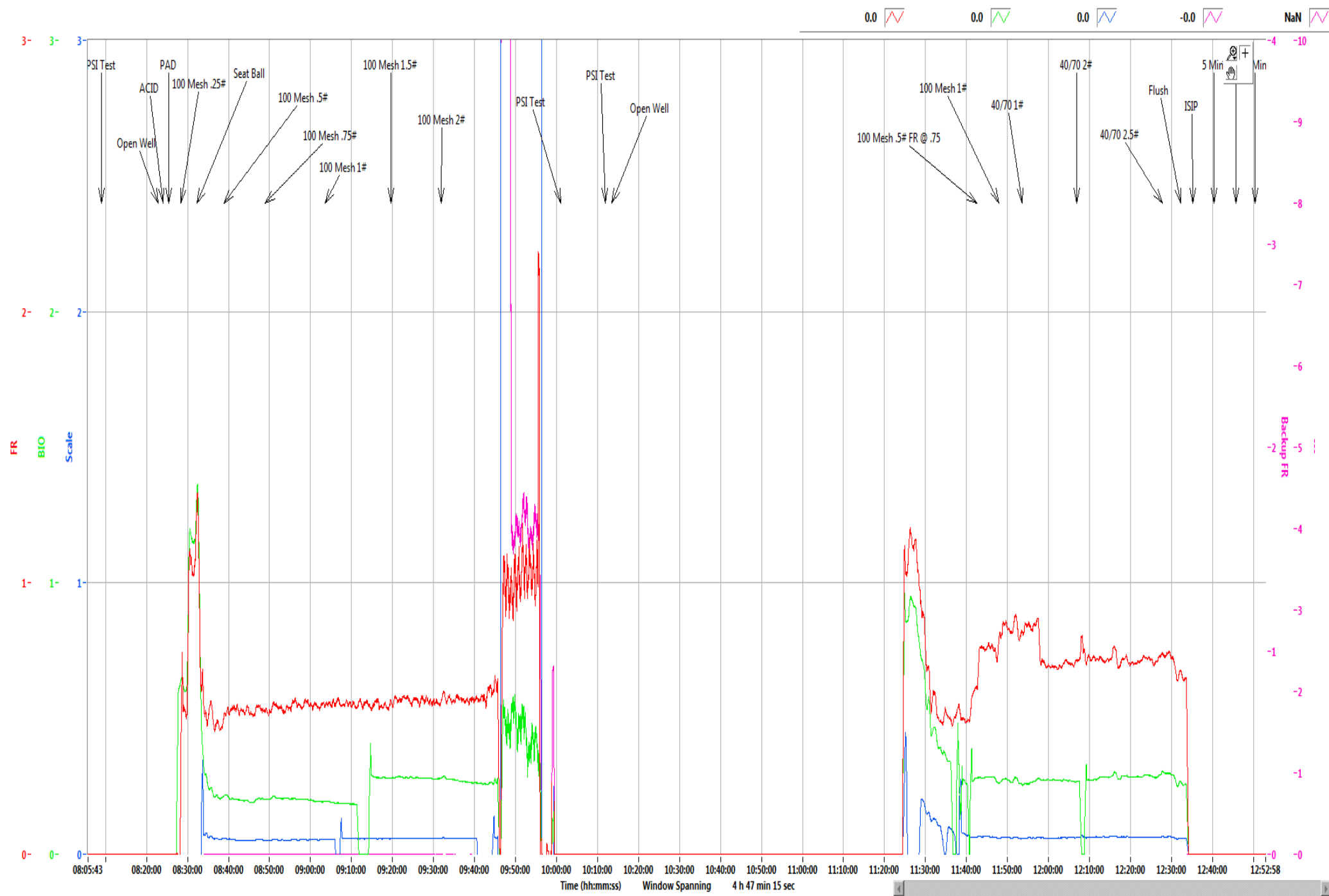
NNE
Boggess 1H
Stage 60
Producers Service Corp.

Post Stage Report
October 11, 2019



Refresh Graph

Time (hh:mm:ss) Window Spanning 4 h 47 min 15 sec



Refresh Graph

Boggess Pad**1H**

Stage	60
Date:	10/11/19
OWP (psi):	3,409
Starting Time	8:22 AM
Ending Time	12:35 PM
Pump Time (hr:min)	04:13
Swap Time (hr:min)	04:31
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	7,422
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,350
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	9,119
Displacement (psi)	8,521
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,549
Final FG (psi/ft)	1.25
5 Minute Leakoff Pressure (psi)	5,689
5 Minute Leakoff Rate (psi/min)	172
10 Minute Leakoff Pressure (psi)	5,378
10 Minute Leakoff Rate (psi/min)	117
15 Minute Leakoff Pressure (psi)	5,213
15 Minute Leakoff Rate (psi/min)	89

Fluids & Proppant

Slickwater (bbls)	11,449
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	66
Pad (bbls)	81
Treatment (bbls)	11,181
Displacement (bbls)	199
(Acid Included) Total (bbls)	11,461
Dirty Job Total (bbls)	11,555
100 Mesh	299,660
40/70	199,920
Total Proppant (lbs)	499,580
Total Proppant %	99.9%

CHEMICALS

FR 9800	212
Biocide	120
Scale	24

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



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

Invoice #: 23889
 Date: 10/11/2019
 Well Name: Bogges 1H
 Stage No.: 60

State: WV
 County: Monongahela
 Operator: Joe/Eck
 PO/AFE: 100343

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	2,996.60	CWT	\$ 5.50	\$ 16,481.30
SAND 40/70	40/70 white	1,999.20	CWT	\$ 5.75	\$ 11,495.40
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	174	GAL	\$ 17.75	\$ 3,088.50
BIOC11219A	Biocide @ 0.25 GPT	101	GAL	\$ 16.00	\$ 1,616.00
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		249.79	TON	\$ 55.00	\$ 13,738.45
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,199.65
				25% Discount Applied	\$ 16,799.91
				Net Stage Total	\$ 50,399.74

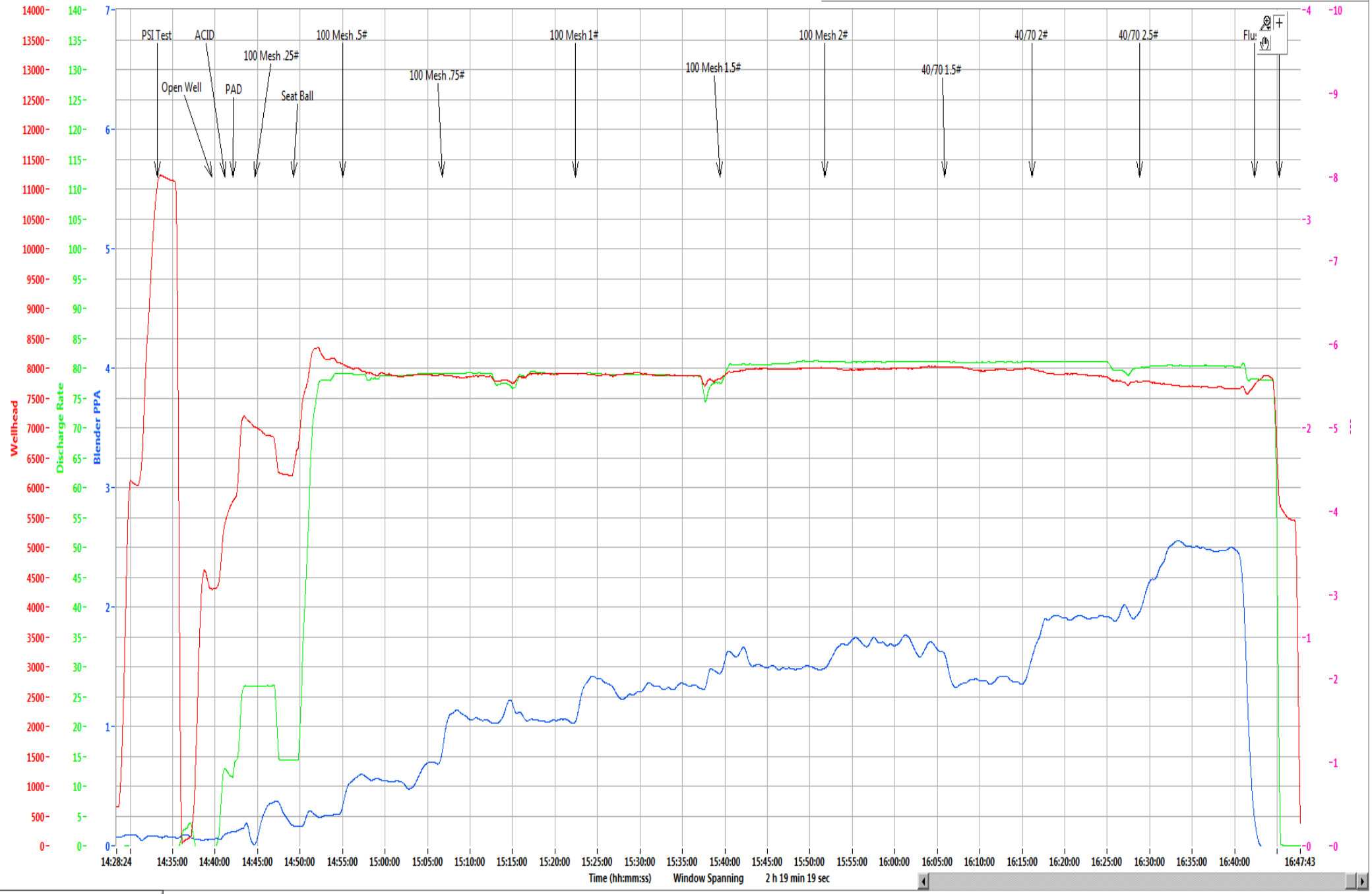
(Print Name) Rob Cowg Customer Signature: [Signature]



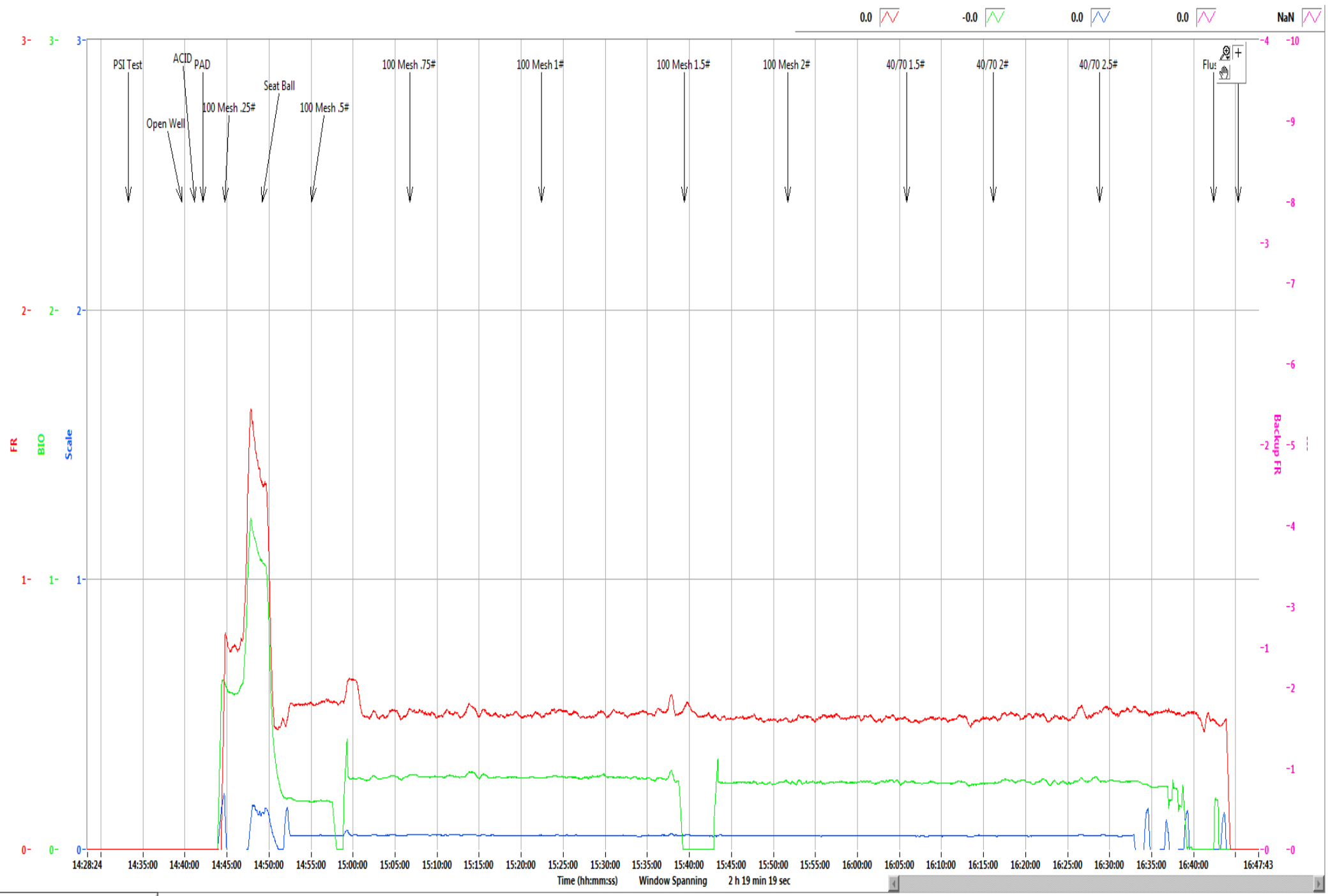
NNE
Boggess 1H
Stage 61
Producers Service Corp.

Post Stage Report
October 11, 2019

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Refresh Graph



Refresh Graph

Boggess Pad	1H
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Stage	61
Date:	10/11/19
OWP (psi):	4,300
Starting Time	2:39 PM
Ending Time	4:45 PM
Pump Time (hr:min)	02:06
Swap Time (hr:min)	02:04
Starting # Pumps	16
Finishing # Pumps	14
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,661
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	7,894
Maximum Treating Rate (bbl/min)	82
Maximum Treating Pressure (psi)	8,434
Displacement (psi)	7,738
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,662
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)	9,376
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	44
Pad (bbls)	85
Treatment (bbls)	9,103
Displacement (bbls)	200
(Acid Included) Total (bbls)	9,388
Dirty Job Total (bbls)	9,384
100 Mesh	299,640
40/70	199,980
Total Proppant (lbs)	499,620
Total Proppant %	99.9%

CHEMICALS

FR 9800	197
Biocide	99
Scale	20

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



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

Invoice #: 23890
 Date: 10/11/2019
 Well Name: Bogges's 1H
 Stage No.: 61

State: WV
 County: Monongahela
 Operator: Stetson/Mark
 PO/AFE: 100343

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	2,996.40	CWT	\$ 5.50	\$ 16,480.20
SAND 40/70	40/70 white	1,999.80	CWT	\$ 5.75	\$ 11,498.85
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	197	GAL	\$ 17.75	\$ 3,496.75
BIOC11219A	Biocide @ 0.25 GPT	99	GAL	\$ 16.00	\$ 1,584.00
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		249.81	TON	\$ 55.00	\$ 13,739.55
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,579.35
				25% Discount Applied	\$ 16,894.84
				Net Stage Total	\$ 50,684.51

(Print Name) Rob Cowen

Customer Signature: [Handwritten Signature]

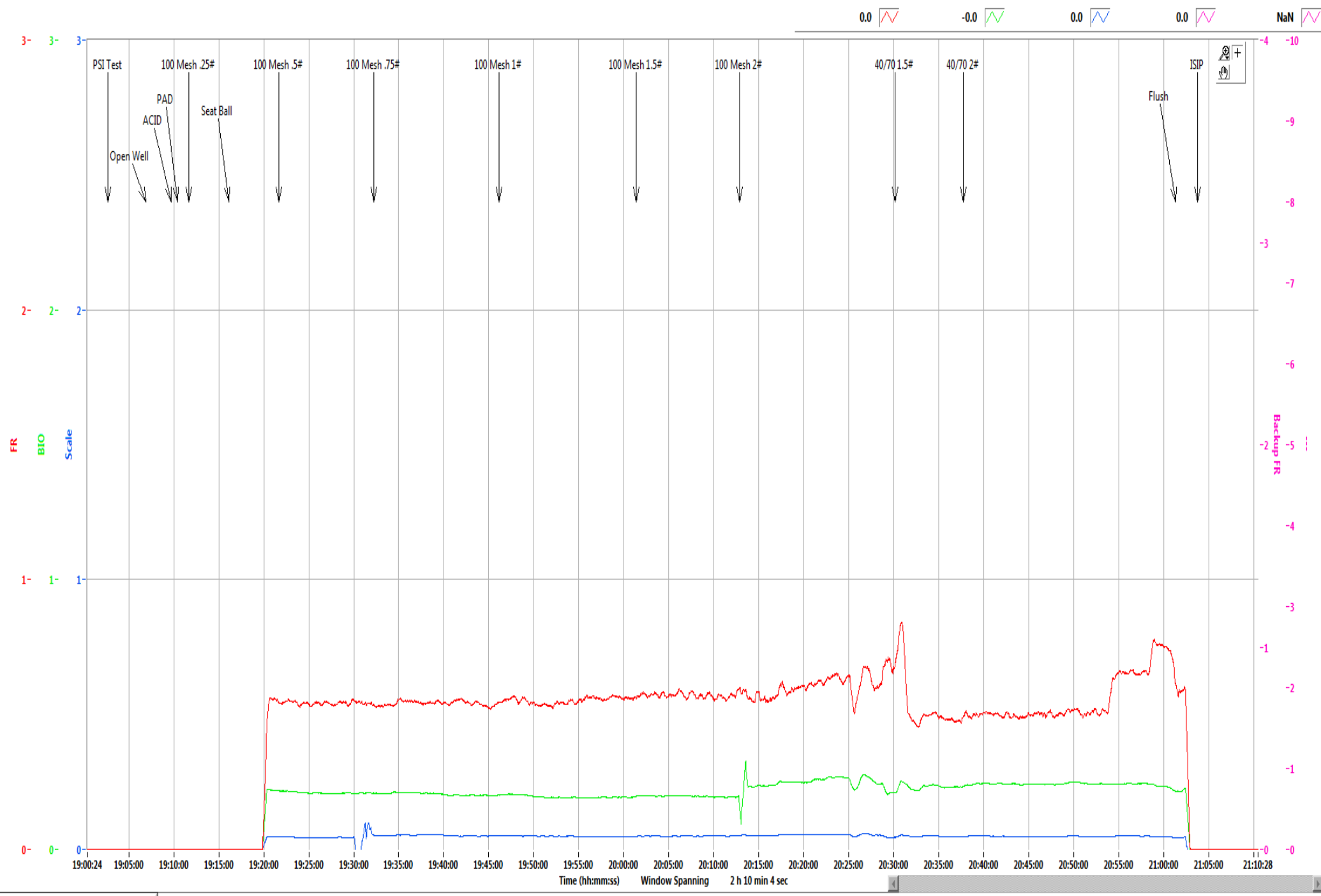


NNE
Bogges 1H
Stage 62
Producers Service Corp.

Post Stage Report
October 11, 2019



Refresh Graph



Time (hh:mm:ss) Window Spanning 2 h 10 min 4 sec

Refresh Graph

Boggess Pad**1H**

Stage	62
Date:	10/11/19
OWP (psi):	3,733
Starting Time	7:06 PM
Ending Time	9:03 PM
Pump Time (hr:min)	01:57
Swap Time (hr:min)	02:21
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,933
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,324
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	10,210
Displacement (psi)	8,330
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,253
Final FG (psi/ft)	1.21
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)	9,324
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	44
Pad (bbls)	29
Treatment (bbls)	9,110
Displacement (bbls)	191
(Acid Included) Total (bbls)	9,336
Dirty Job Total (bbls)	9,394
100 Mesh	313,720
40/70	205,120
Total Proppant (lbs)	518,840
Total Proppant %	103.8%

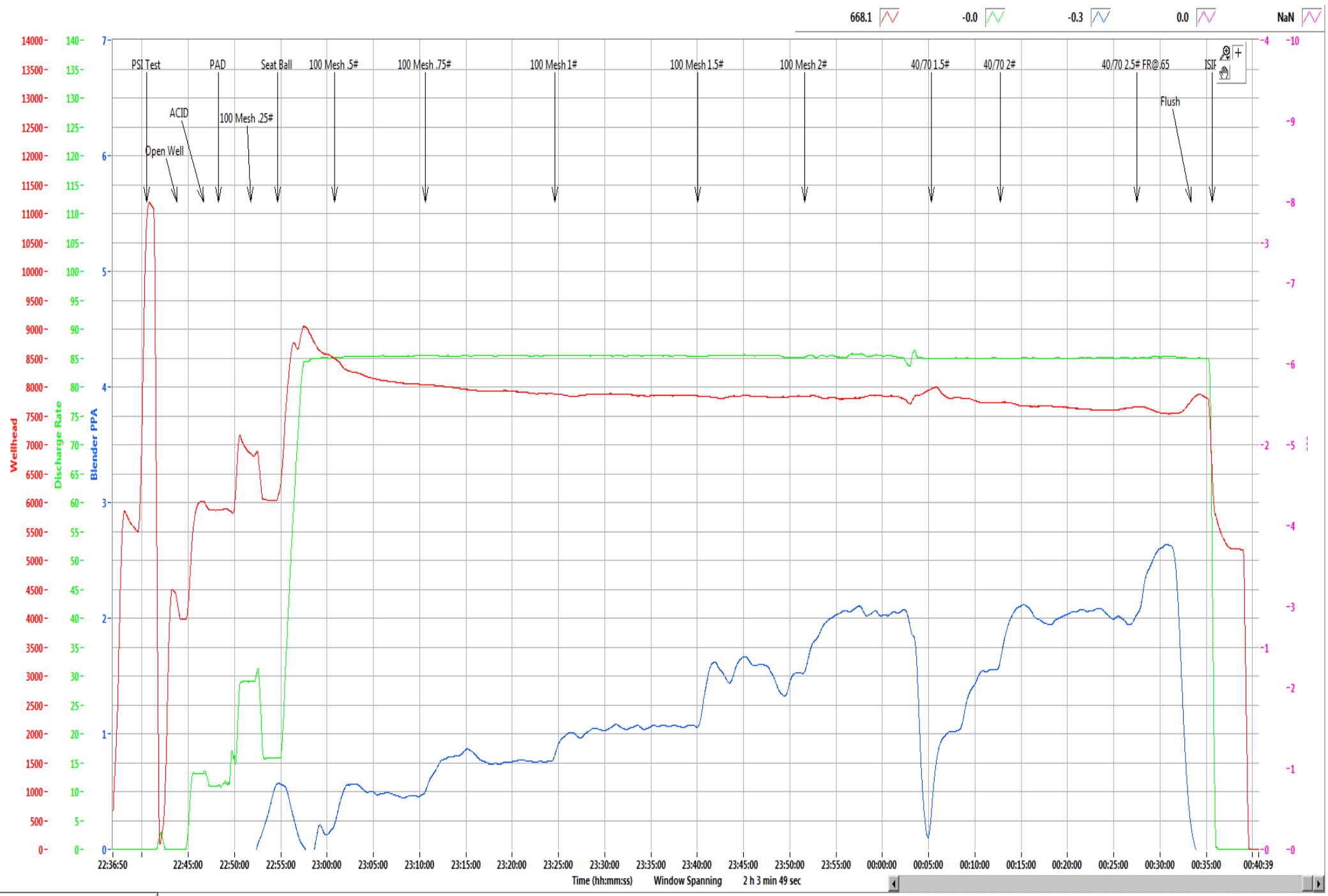
CHEMICALS

FR 9800	210
Biocide	98
Scale	23

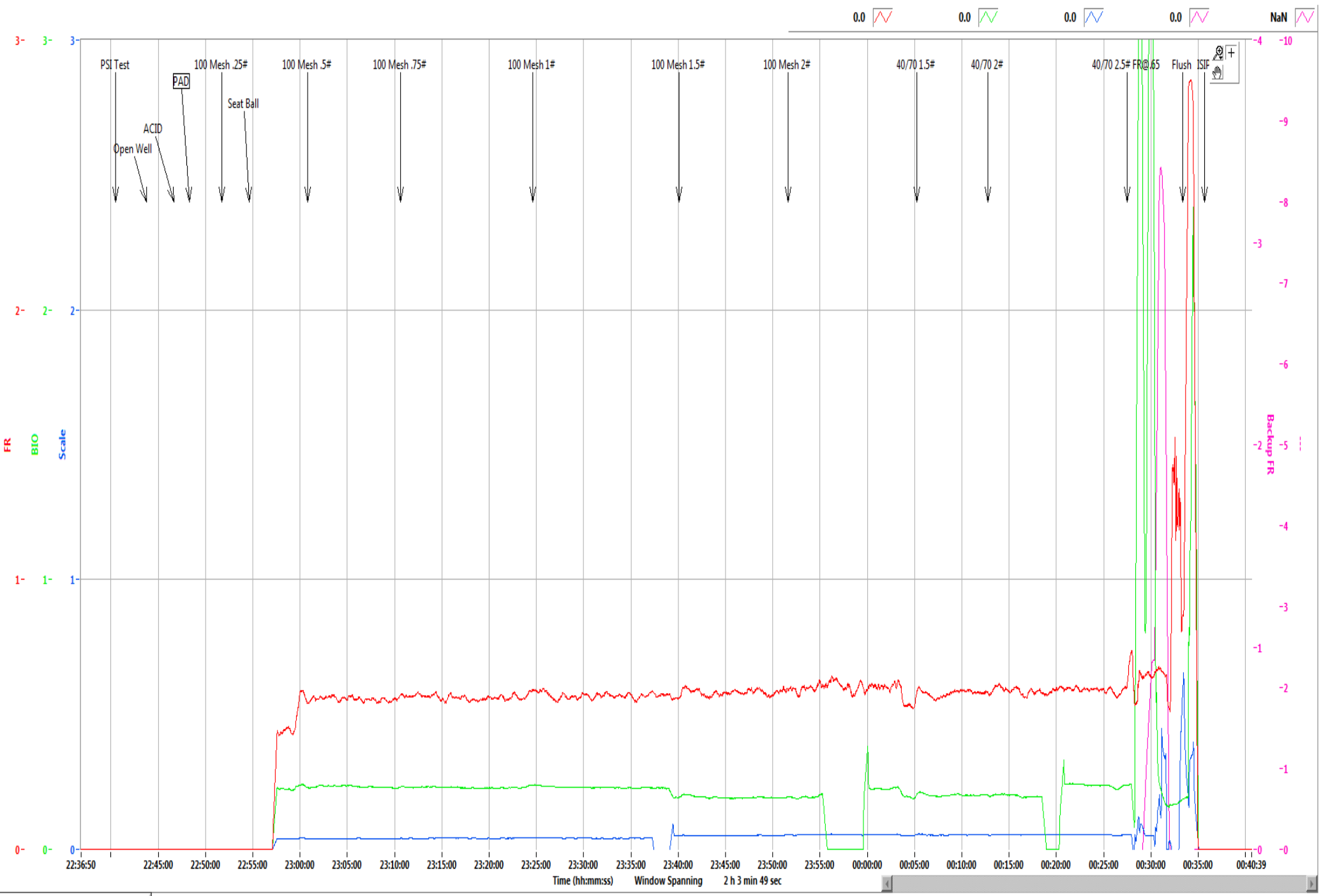


NNE
Boggess 1H
Stage 63
Producers Service Corp.

Post Stage Report
October 12, 2019



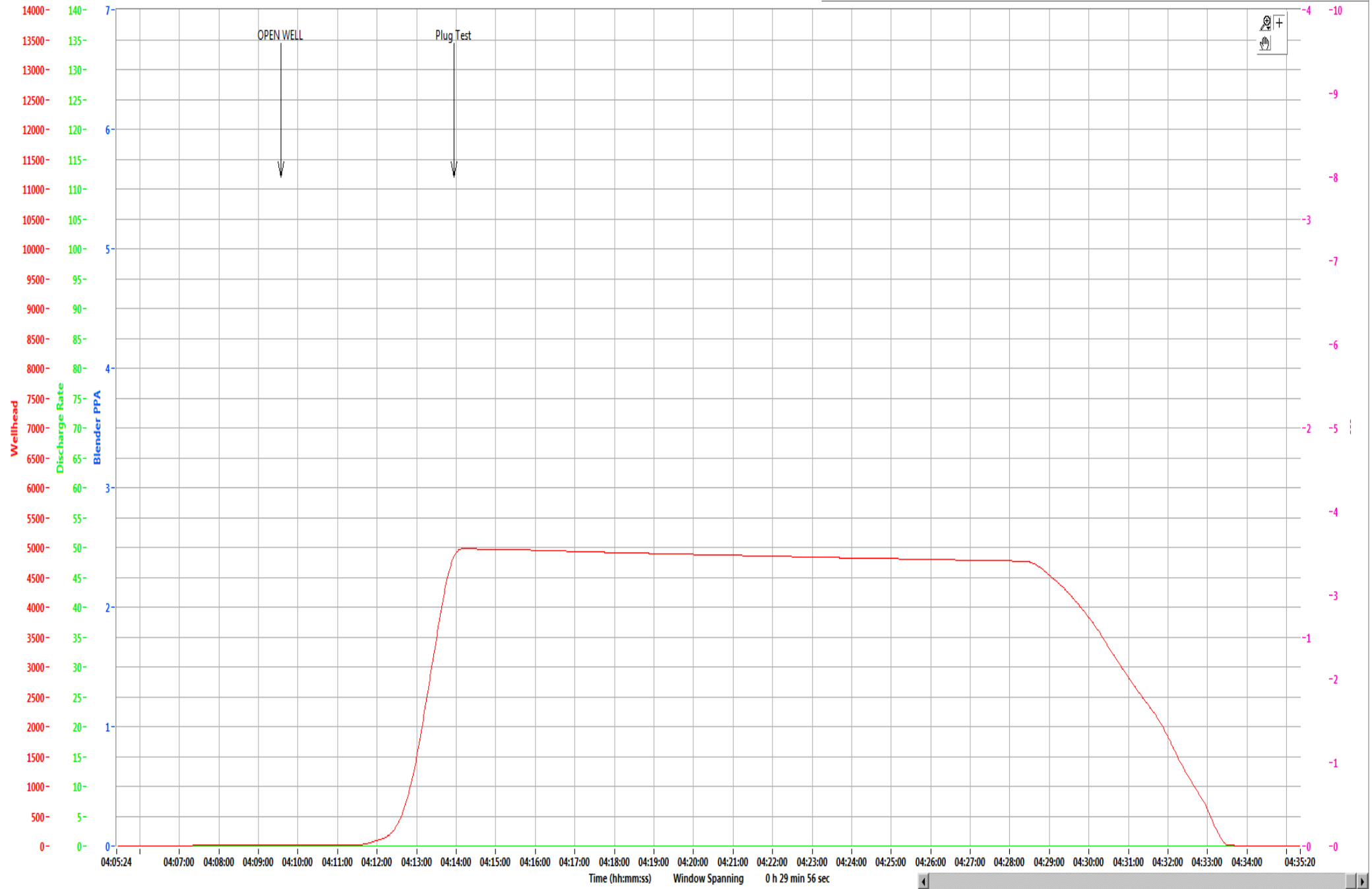
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Refresh Graph

Boggess Pad	1H
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Stage	63
Date:	10/11/19
OWP (psi):	3,975
Starting Time	10:43 PM
Ending Time	12:35 AM
Pump Time (hr:min)	01:52
Swap Time (hr:min)	01:40
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,034

Pressures & Rates

Breakdown Pressure (psi)	6,339
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	7,885
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,099
Displacement (psi)	7,784
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,781
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)	8,808
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	26
Pad (bbls)	75
Treatment (bbls)	8,567
Displacement (bbls)	185
(Acid Included) Total (bbls)	8,832
Dirty Job Total (bbls)	8,843
100 Mesh	308,080
40/70	182,940
Total Proppant (lbs)	491,020
Total Proppant %	98.2%

CHEMICALS

FR 9800	188
Biocide	94
Scale	23

