



POST-STIMULATION REPORT

Northeast Natural Energy, LLC

Bogges 17H (Stages 1-45)

Marcellus Shale Formation

Monongalia County, WV

Treatment Dates: 09/20/2019 – 10/11/2019

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@producerservicecorp.com

A 100% employee owned company



OPERATIONAL SUMMARY

PSC appreciates the opportunity to complete the stimulation of the Boggess 17H well. 45 Stages were completed from September 20th, 2019 to October 11th, 2019. Average treating pressure was 8,432 psi at an average rate of 83.2 bpm. Average pump time was 2 hour and 21 minutes. 13,365,840 lbs of 100 mesh sand and 8,720,420 lbs of 40/70 sand was placed for a total of 22,086,260 lbs which is 98% of the designed volume. 53,000 gal of 7.5% HCl was utilized during the stimulation treatment.



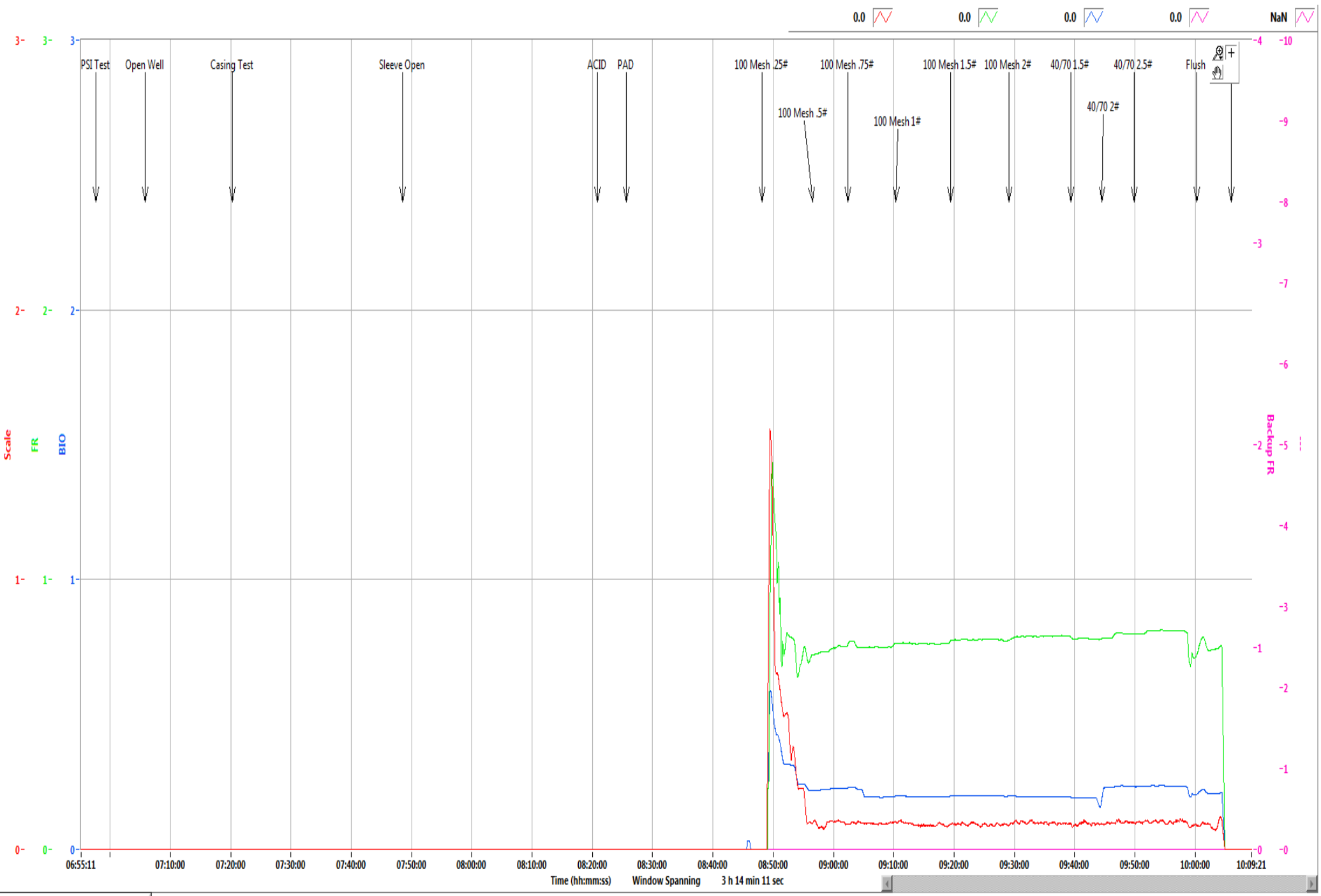
NNE
Boggess 17H
Stage 1
Producers Service Corp.

Post Stage Report
September 20, 2019



Time (hh:mm:ss) Window Spanning 3 h 14 min 11 sec

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Boggess Pad 17H

Stage	1
Date:	9/20/19
OWP (psi):	35
Starting Time	7:05 AM
Ending Time	10:06 AM
Pump Time (hr:min)	03:01
Swap Time (hr:min)	03:40
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,471
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,510
Displacement (psi)	8,697
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,465
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)	6,488
Acid 7.5% HCL (gal)	3,000
Wireline Pump Down (bbls)	
Pad (bbls)	409
Treatment (bbls)	5,719
Displacement (bbls)	423
(Acid Included) Total (bbls)	6,559
Dirty Job Total (bbls)	6,952
100 Mesh	177,760
40/70	120,960
Total Proppant (lbs)	298,720
Total Proppant %	66.4%

CHEMICALS

FR 9800	186
DRB-LT	
Biocide	69
Scale	14

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



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

Invoice #: 23087
 Date: 9/20/2019
 Well Name: Bogges 17H
 Stage No.: 1

State: WV
 County: Monongahela
 Operator: Eck/Dunn
 PO/AFE: 100430

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	3000	GAL	\$ 1.25	\$ 3,750.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	6	GAL	\$ 35.00	\$ 210.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	1,777.60	CWT	\$ 5.50	\$ 9,776.80
SAND 40/70	40/70 white	1,209.60	CWT	\$ 5.75	\$ 6,955.20
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	186	GAL	\$ 17.75	\$ 3,301.50
BIOC11219A	Biocide @ 0.25 GPT	69	GAL	\$ 16.00	\$ 1,104.00
SCAL16846A	Scale Control @ 0.05 GPT	14	GAL	\$ 16.00	\$ 224.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		1	STAGE	\$ 400.00	\$ 400.00
COMMAND CENTER		0	STAGE	\$ 1,500.00	\$ -
PUMP DOWN FOR PERFORATING		0	STAGE	\$ 1,500.00	\$ -
ARROWS UP SYSTEM		149.36	TON	\$ 55.00	\$ 8,214.80
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 53,336.30
 25% Discount Applied \$ 13,334.08
 Net Stage Total \$ 40,002.23

(Print Name)
 Customer Rep:

E. Boone

Customer Signature:

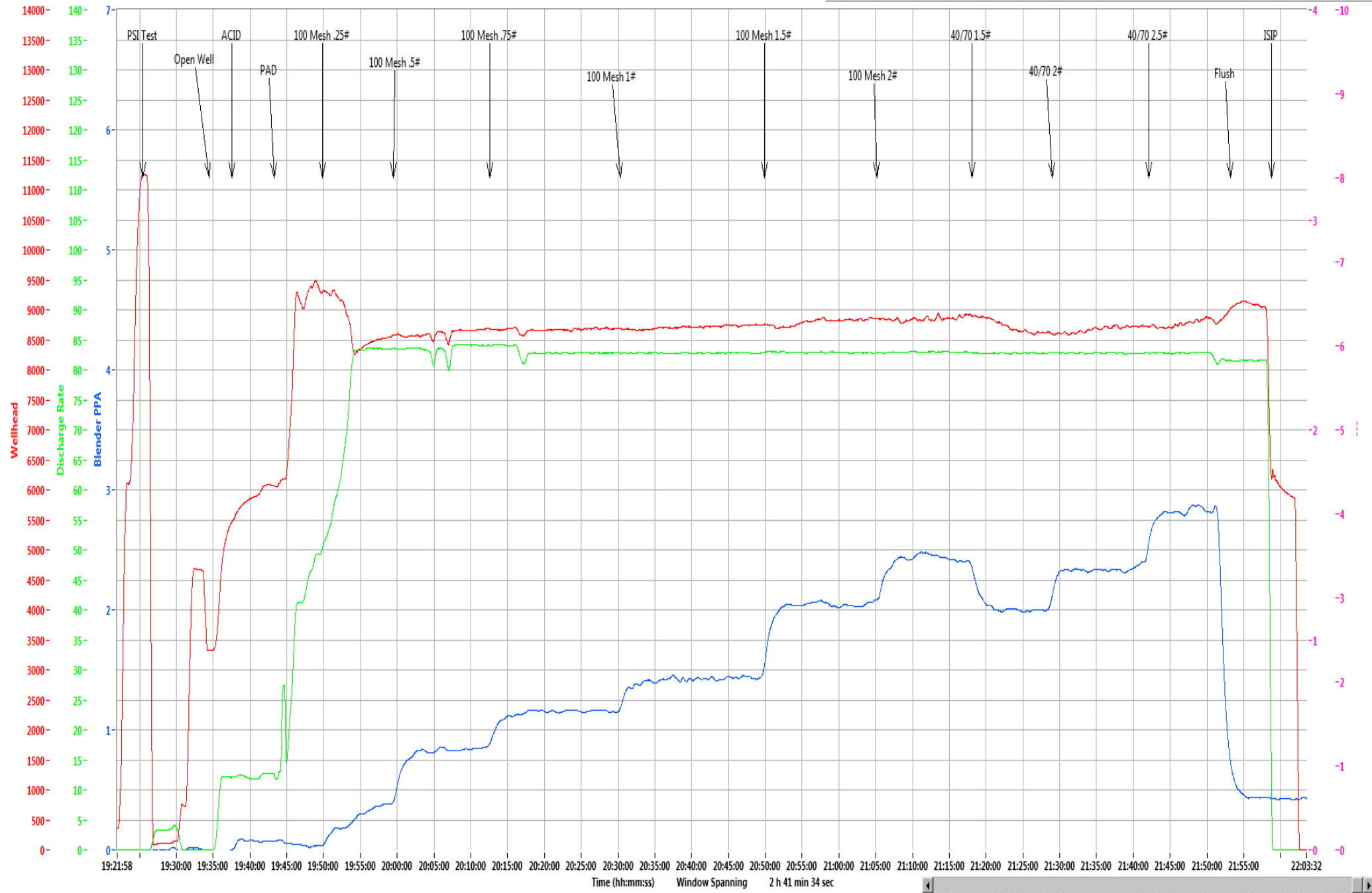
E. Boone



NNE
Boggess 17H
Stage 2
Producers Service Corp.

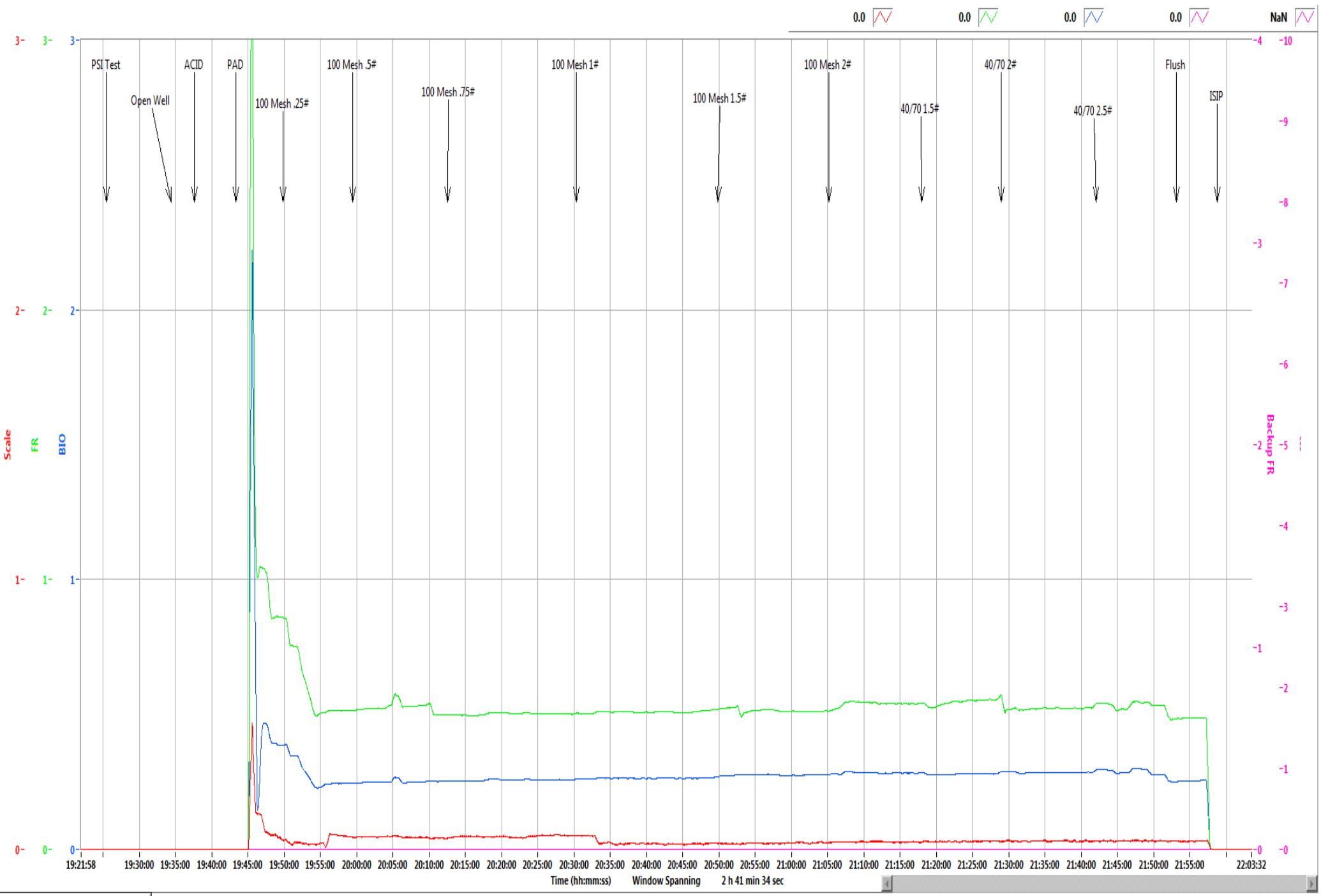
Post Stage Report
September 20, 2019

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Boggess Pad 17H

Stage	2
Date:	9/20/19
OWP (psi):	3,330
Starting Time	7:34 PM
Ending Time	9:58 PM
Pump Time (hr:min)	02:24
Swap Time (hr:min)	02:54
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,723
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,439
Displacement (psi)	9,072
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,277
Final FG (psi/ft)	1.22
5 Minute Leakoff Pressure (psi)	
5 Minute Leakoff Rate (psi/min)	
10 Minute Leakoff Pressure (psi)	
10 Minute Leakoff Rate (psi/min)	
15 Minute Leakoff Pressure (psi)	
15 Minute Leakoff Rate (psi/min)	

Fluids & Proppant

Slickwater (bbls)	10,172
Acid 7.5% HCL (gal)	9,000
Wireline Pump Down (bbls)	771
Pad (bbls)	223
Treatment (bbls)	9,737
Displacement (bbls)	426
(Acid Included) Total (bbls)	10,386
Dirty Job Total (bbls)	10,979
100 Mesh	299,840
40/70	200,140
Total Proppant (lbs)	499,980
Total Proppant %	100.0%

CHEMICALS

FR 9800	218
DRB-LT	0
Biocide	109
Scale	22

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



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

Invoice #: 23089
 Date: 9/20/2019
 Well Name: Bogges 17H
 Stage No.: 2

State: WV
 County: Monongahela
 Operator: Stetson/Tilton
 PO/AFE: 100430

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	9000	GAL	\$ 1.25	\$ 11,250.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	18	GAL	\$ 35.00	\$ 630.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,998.40	CWT	\$ 5.50	\$ 16,491.20
SAND 40/70	40/70 white	2,001.40	CWT	\$ 5.75	\$ 11,508.05
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	218	GAL	\$ 17.75	\$ 3,869.50
BIOC11219A	Biocide @ 0.25 GPT	109	GAL	\$ 16.00	\$ 1,744.00
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		249.99	TON	\$ 55.00	\$ 13,749.45
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

*Additional Acid to open sleeves for Fiber
 1500 gals 15% } for silica pumpdown
 3000 gals 7.5% }*

Total No Discount \$ 79,394.20
 25% Discount Applied \$ 19,848.55
 Net Stage Total \$ 59,545.65

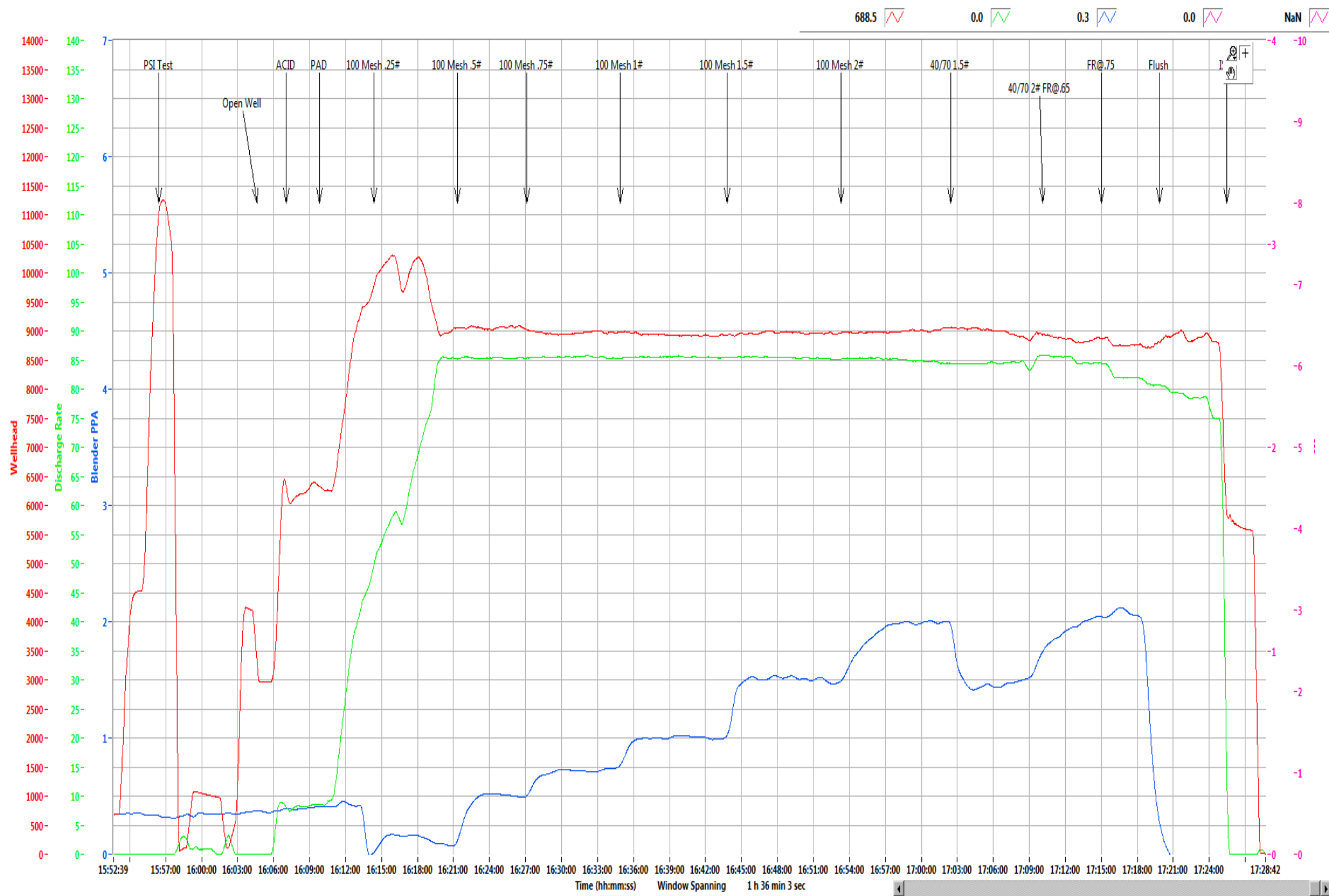
(Print Name) Mike Inman Customer Rep: _____ Customer Signature:

*52,045.65
 for STAGE 2*

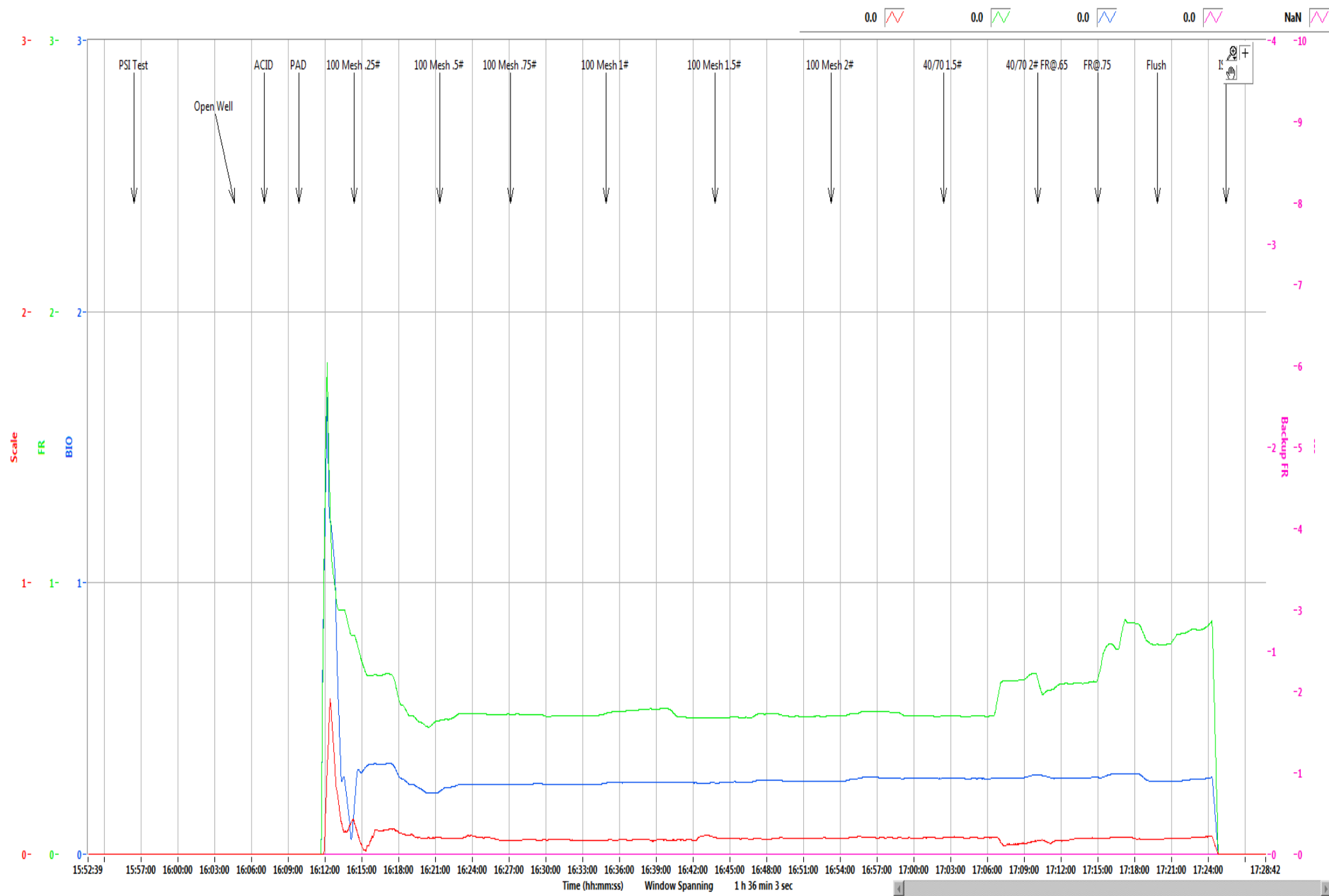


NNE
Boggess 17H
Stage 3
Producers Service Corp.

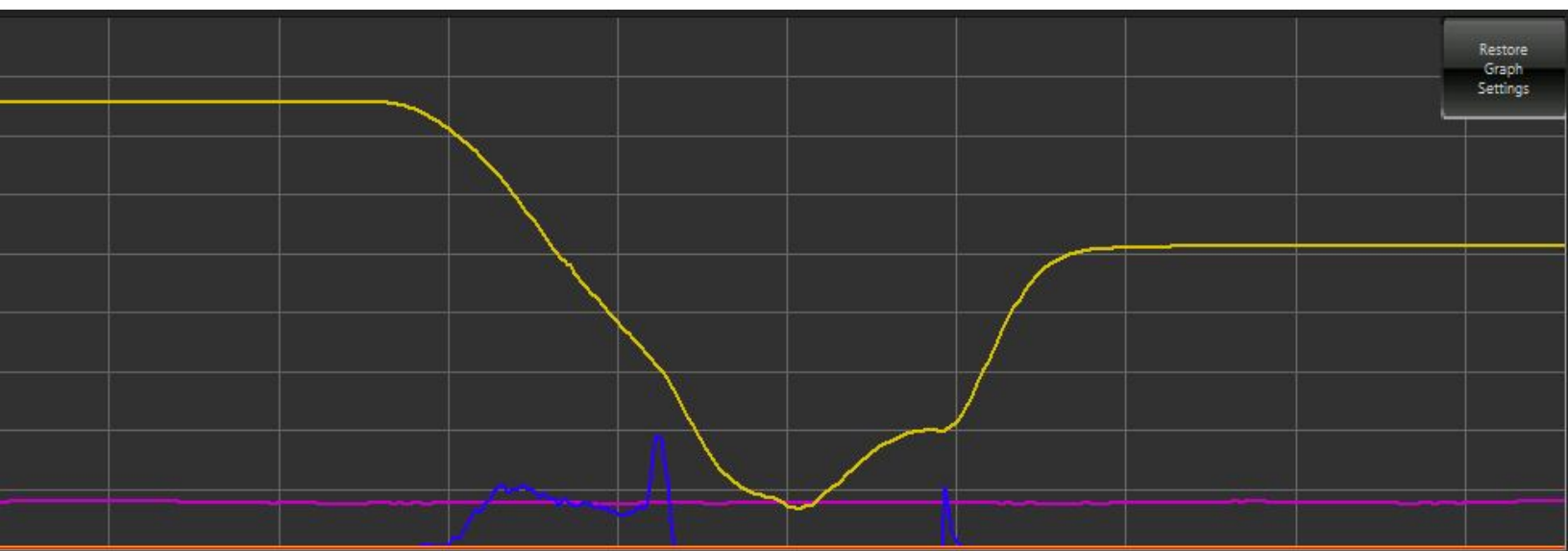
Post Stage Report
September 24, 2019

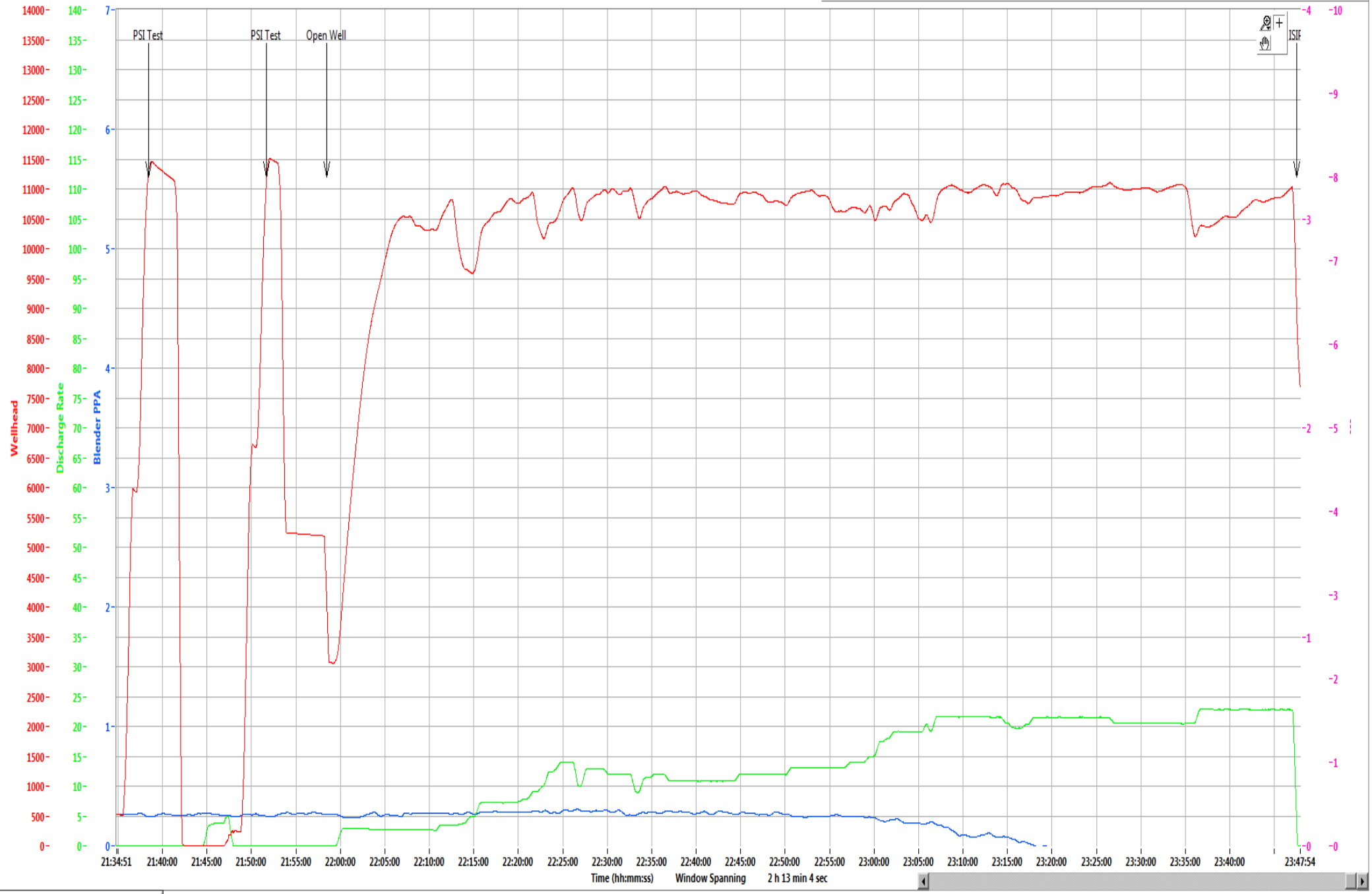


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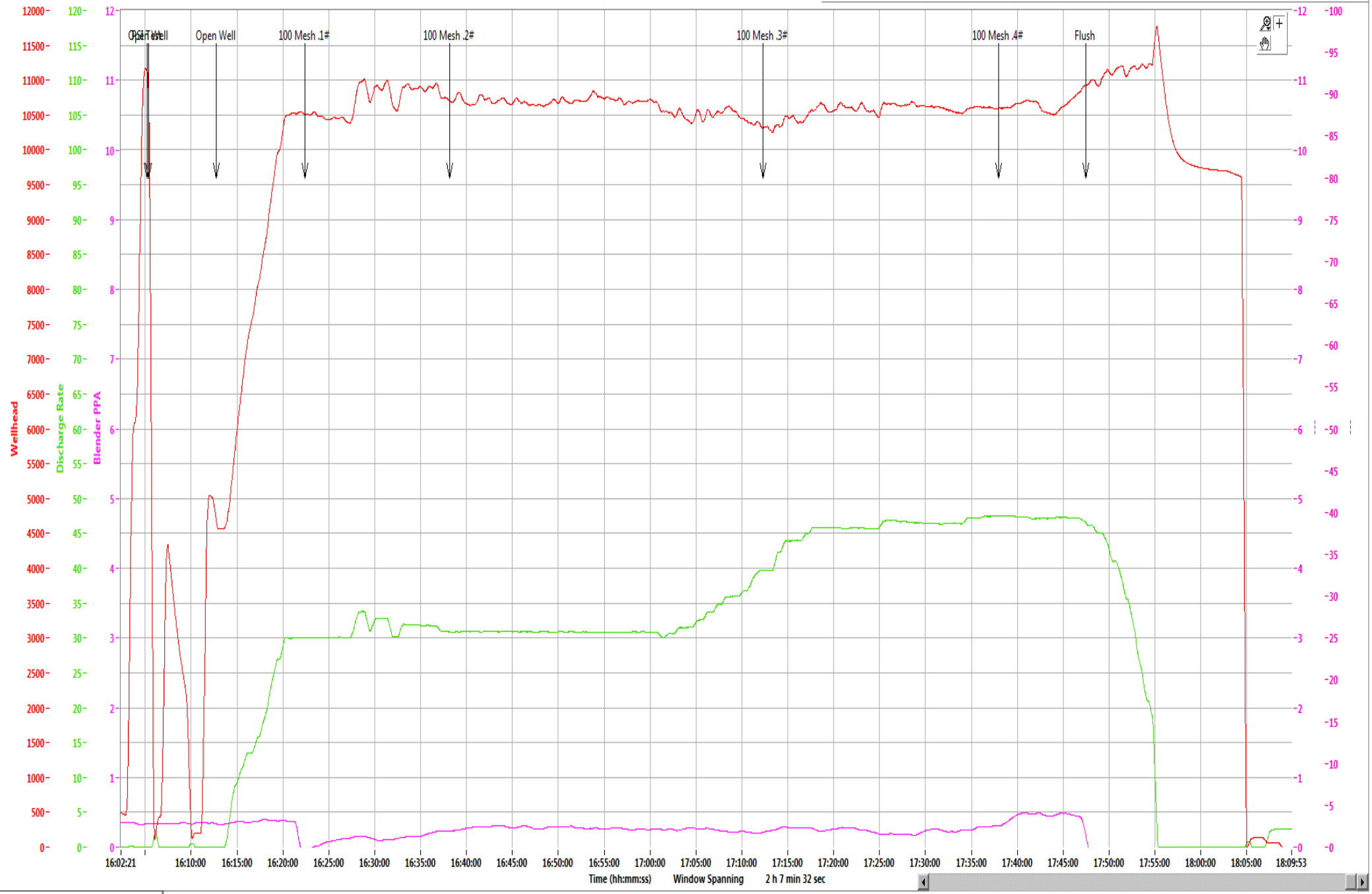
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Boguess Pad 17H

Stage	3
Date:	9/24/19
OWP (psi):	2,964
Starting Time	4:04 PM
Ending Time	5:25 PM
Pump Time (hr:min)	01:21
Swap Time (hr:min)	14:31
Starting # Pumps	15
Finishing # Pumps	14
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,708
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,960
Maximum Treating Rate (bbl/min)	87
Maximum Treating Pressure (psi)	10,376
Displacement (psi)	8,727
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,507
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)	5,645
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	514
Pad (bbls)	163
Treatment (bbls)	5,118
Displacement (bbls)	408
(Acid Included) Total (bbls)	5,693
Dirty Job Total (bbls)	6,059
100 Mesh	238,080
40/70	115,260
Total Proppant (lbs)	353,340
Total Proppant %	70.7%

CHEMICALS

FR 9800	213
Biocide	60
Scale	12

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




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

Invoice #: 23101
Date: 9/24/2019
Well Name: Bogges 17H
Stage No.: 3

State: WV
County: Monongahela
Operator: Jamie/Brad
PO/AFE: 100430

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 (522.20 CWT from trying to erode plug) 48	2,380.80	CWT	\$ 5.50	\$ 13,094.40
SAND 40/70	40/70 white	1,162.60	CWT	\$ 5.75	\$ 6,627.45
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT (80 gals from trying to erode plug) 48	213	GAL	\$ 17.75	\$ 3,780.75
BIOC11219A	Biocide @ 0.25 GPT	60	GAL	\$ 16.00	\$ 960.00
SCAL16846A	Scale Control @ 0.05 GPT	12	GAL	\$ 16.00	\$ 192.00
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		176.67	TON	\$ 55.00	\$ 9,716.85
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 56,811.45
				25% Discount Applied	\$ 14,202.86
				Net Stage Total	\$ 42,608.59

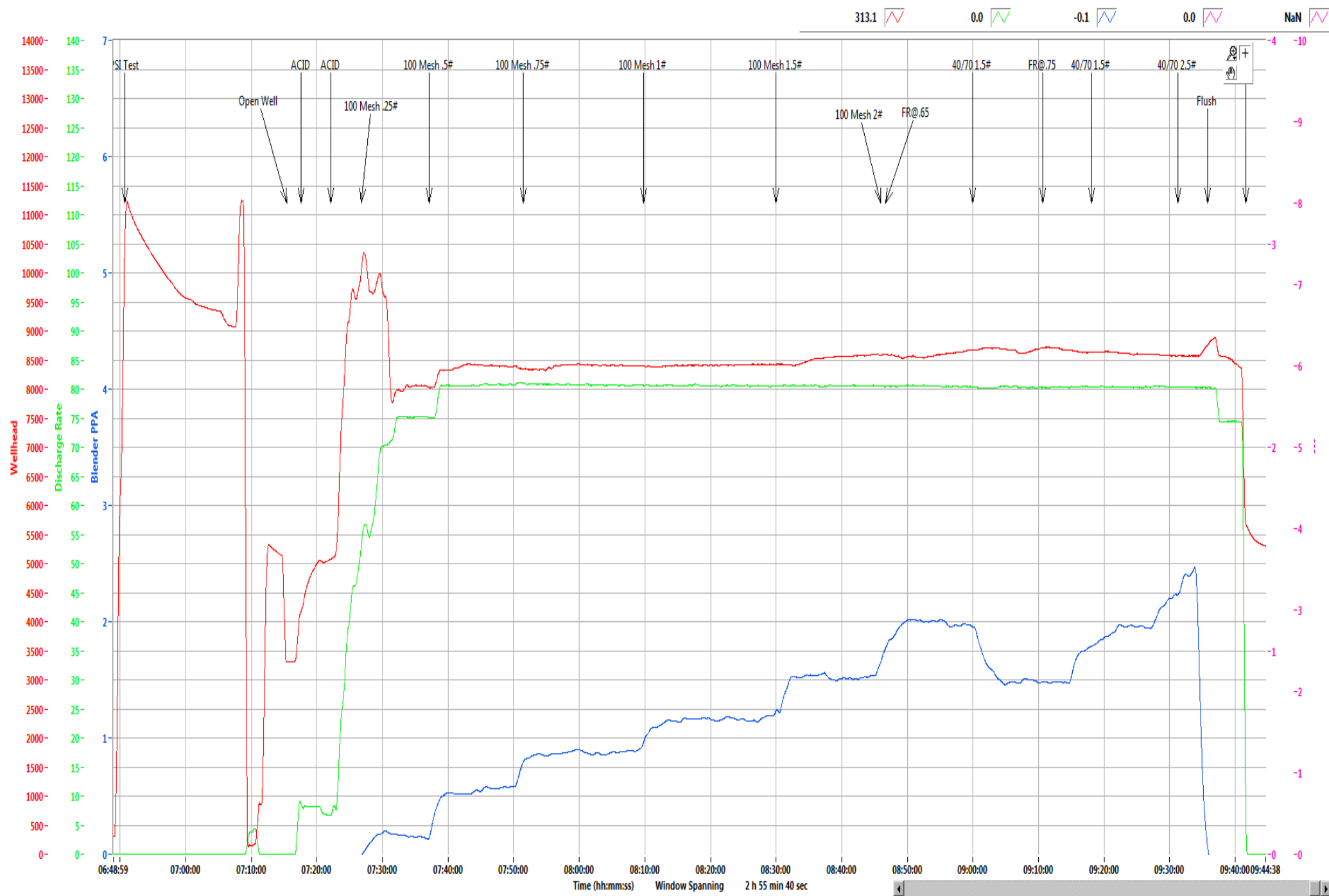
(Print Name) MIKE INMAN Customer Signature: 

** Additional SAND And FR from Pumping to Eroded Plug*

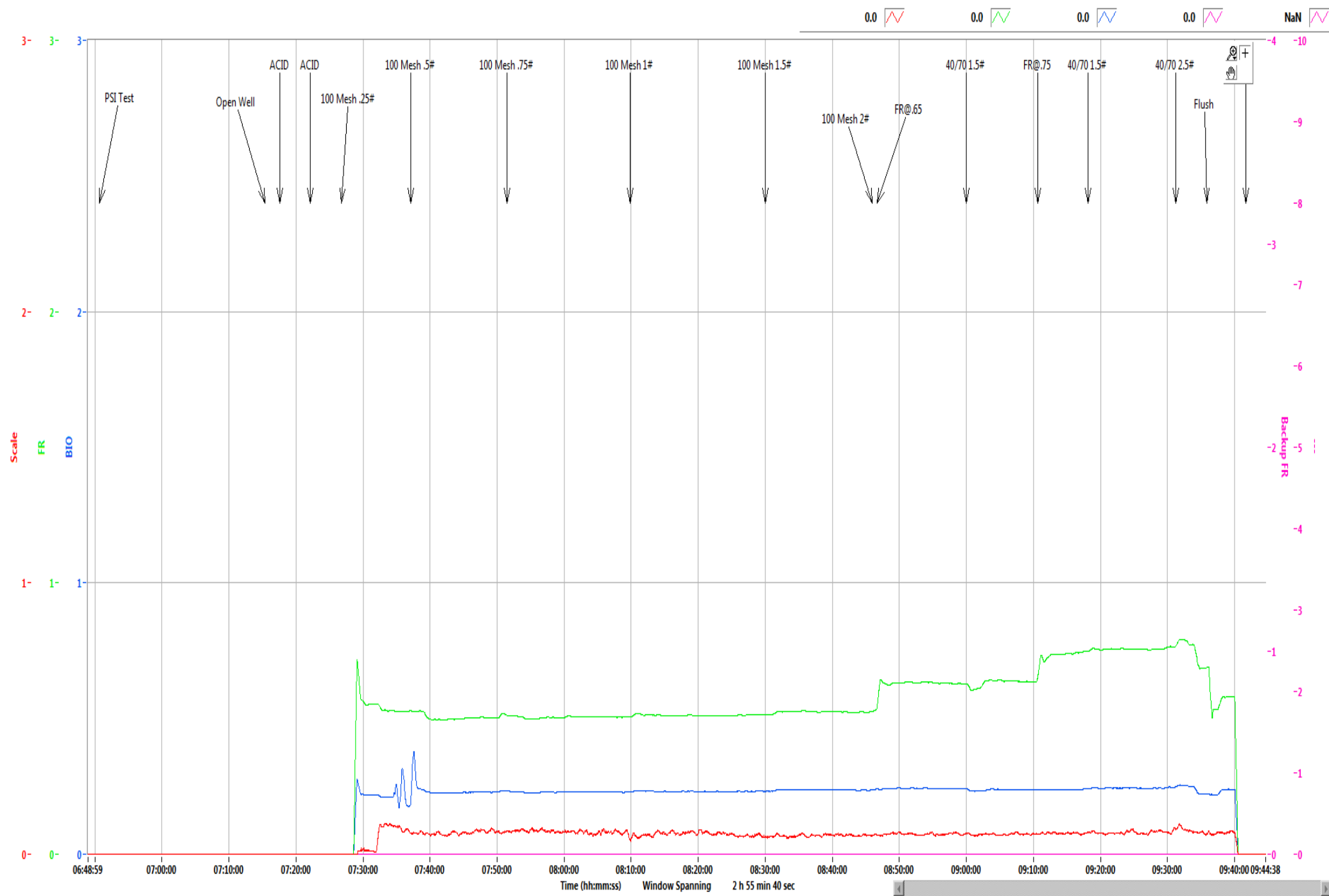


NNE
Boggess 17H
Stage 4
Producers Service Corp.

Post Stage Report
September 25, 2019



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Boguess Pad 17H

Stage	4
Date:	9/25/19
OWP (psi):	3,311
Starting Time	7:15 AM
Ending Time	9:41 AM
Pump Time (hr:min)	02:26
Swap Time (hr:min)	01:39
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	8,400
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,490
Maximum Treating Rate (bbl/min)	82
Maximum Treating Pressure (psi)	10,402
Displacement (psi)	8,794
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,555
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)	10,216
Acid 7.5% HCL (gal)	3,000
Wireline Pump Down (bbls)	475
Pad (bbls)	191
Treatment (bbls)	9,691
Displacement (bbls)	400
(Acid Included) Total (bbls)	10,287
Dirty Job Total (bbls)	10,880
100 Mesh	301,460
40/70	201,040
Total Proppant (lbs)	502,500
Total Proppant %	100.5%

CHEMICALS

FR 9800	245
Biocide	110
Scale	20

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



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

Invoice #: 23103
 Date: 9/25/2019
 Well Name: Bogges 17H
 Stage No.: 4

State: WV
 County: Monongahela
 Operator: Brad/Jamie
 PO/AFE: 100430

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	3,014.60	CWT	\$ 5.50	\$ 16,580.30
SAND 40/70	40/70 white	2,010.40	CWT	\$ 5.75	\$ 11,569.80
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	245	GAL	\$ 17.75	\$ 4,348.75
BIOC11219A	Biocide @ 0.25 GPT	110	GAL	\$ 16.00	\$ 1,760.00
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		251.25	TON	\$ 55.00	\$ 13,818.75
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

Total No Discount \$ 72,147.60
 25% Discount Applied \$ 18,036.90
 Net Stage Total \$ 54,110.70

(Print Name)
 Customer Rep:

E. Boone

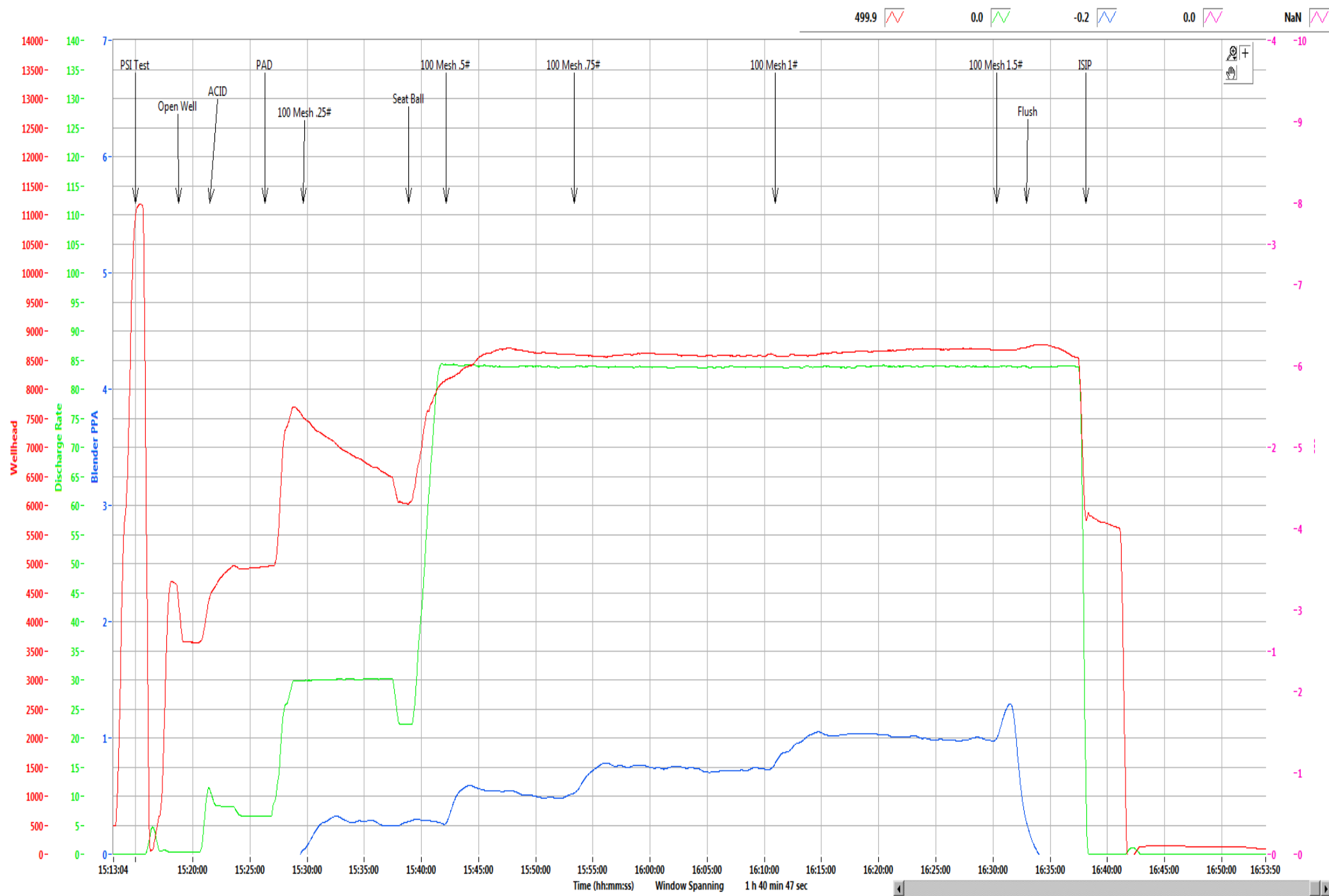
Customer Signature:

E. Boone



NNE
Boggess 17H
Stage 5
Producers Service Corp.

Post Stage Report
September 25, 2019

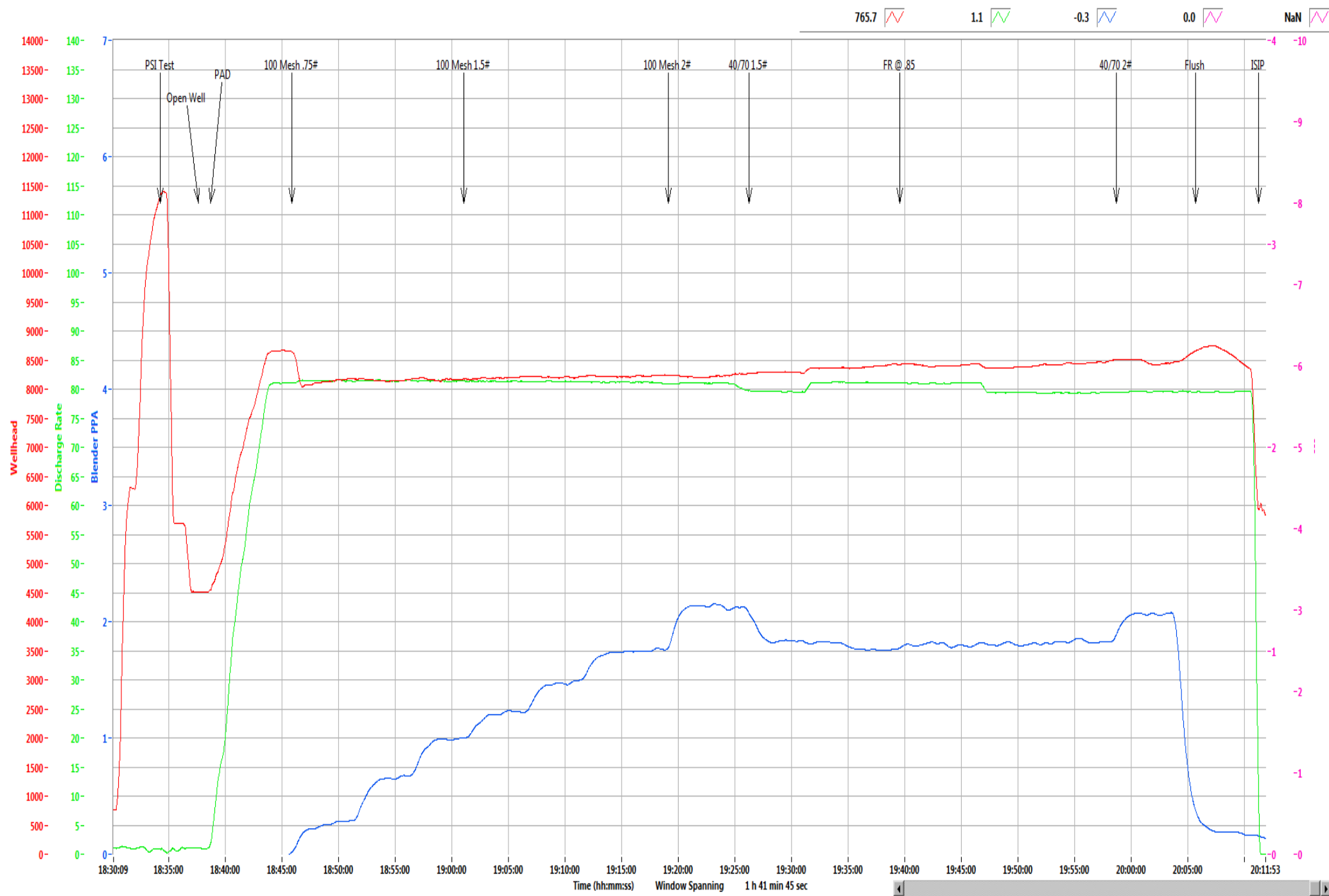


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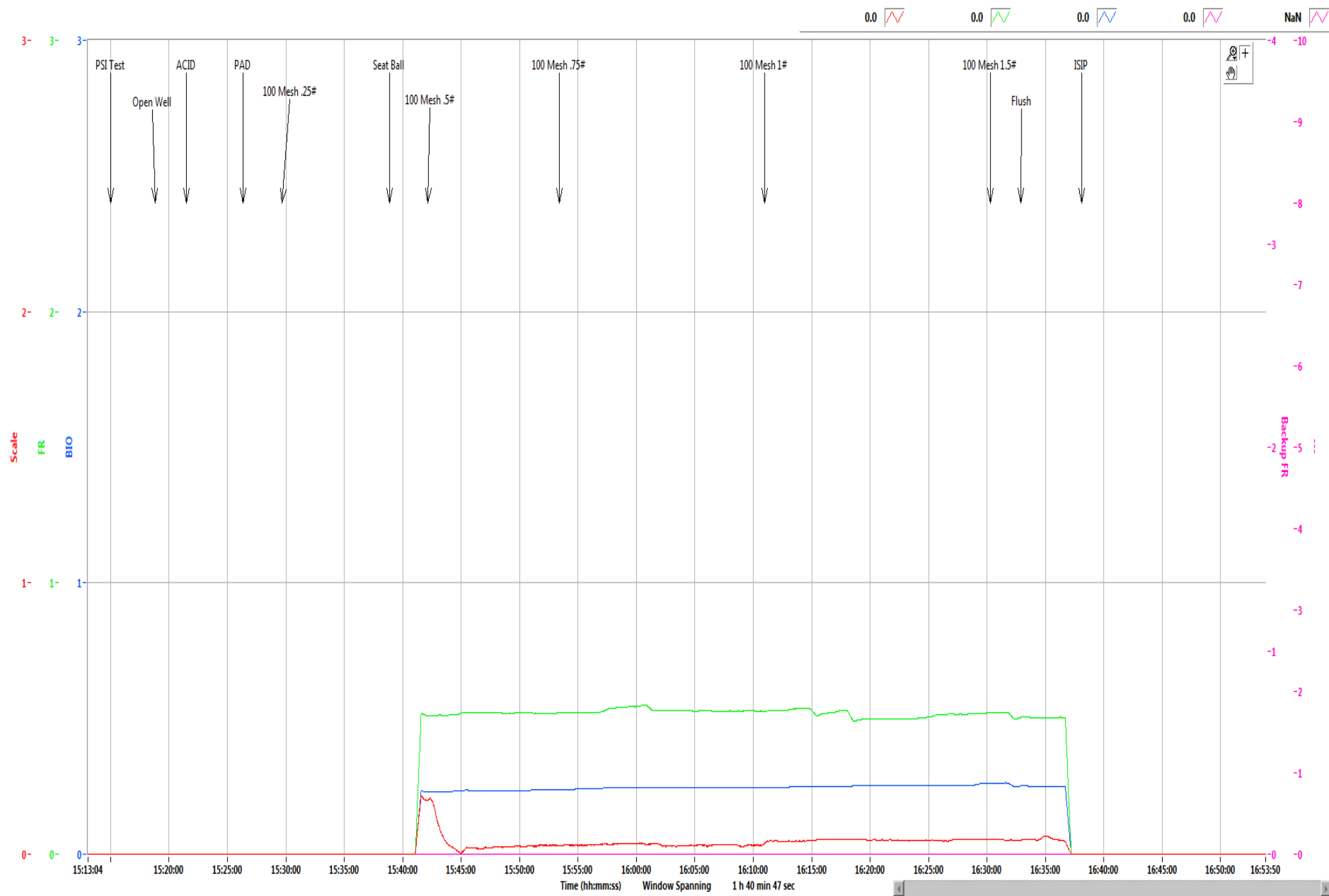


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Boggess Pad 17H

Stage	5
Date:	9/25/19
OWP (psi):	3,634
Starting Time	3:18 PM
Ending Time	8:11 PM
Pump Time (hr:min)	04:53
Swap Time (hr:min)	01:45
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,147
Average Treating Rate (bbl/min)	81
Average Treating Pressure (psi)	8,299
Maximum Treating Rate (bbl/min)	82
Maximum Treating Pressure (psi)	8,705
Displacement (psi)	8,670
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,488
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)	11,937
Acid 7.5% HCL (gal)	3,000
Wireline Pump Down (bbls)	447
Pad (bbls)	114
Treatment (bbls)	11,487
Displacement (bbls)	403
(Acid Included) Total (bbls)	12,008
Dirty Job Total (bbls)	12,856
100 Mesh	304,400
40/70	196,140
Total Proppant (lbs)	500,540
Total Proppant %	100.1%

CHEMICALS

FR 9800	380
Biocide	128
Scale	29

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



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

Invoice #: 23105
 Date: 9/25/2019
 Well Name: Bogness 17H
 Stage No.: 5

State: WV
 County: Monongahela
 Operator: Stetson/Moon
 PO/AFE: 100430

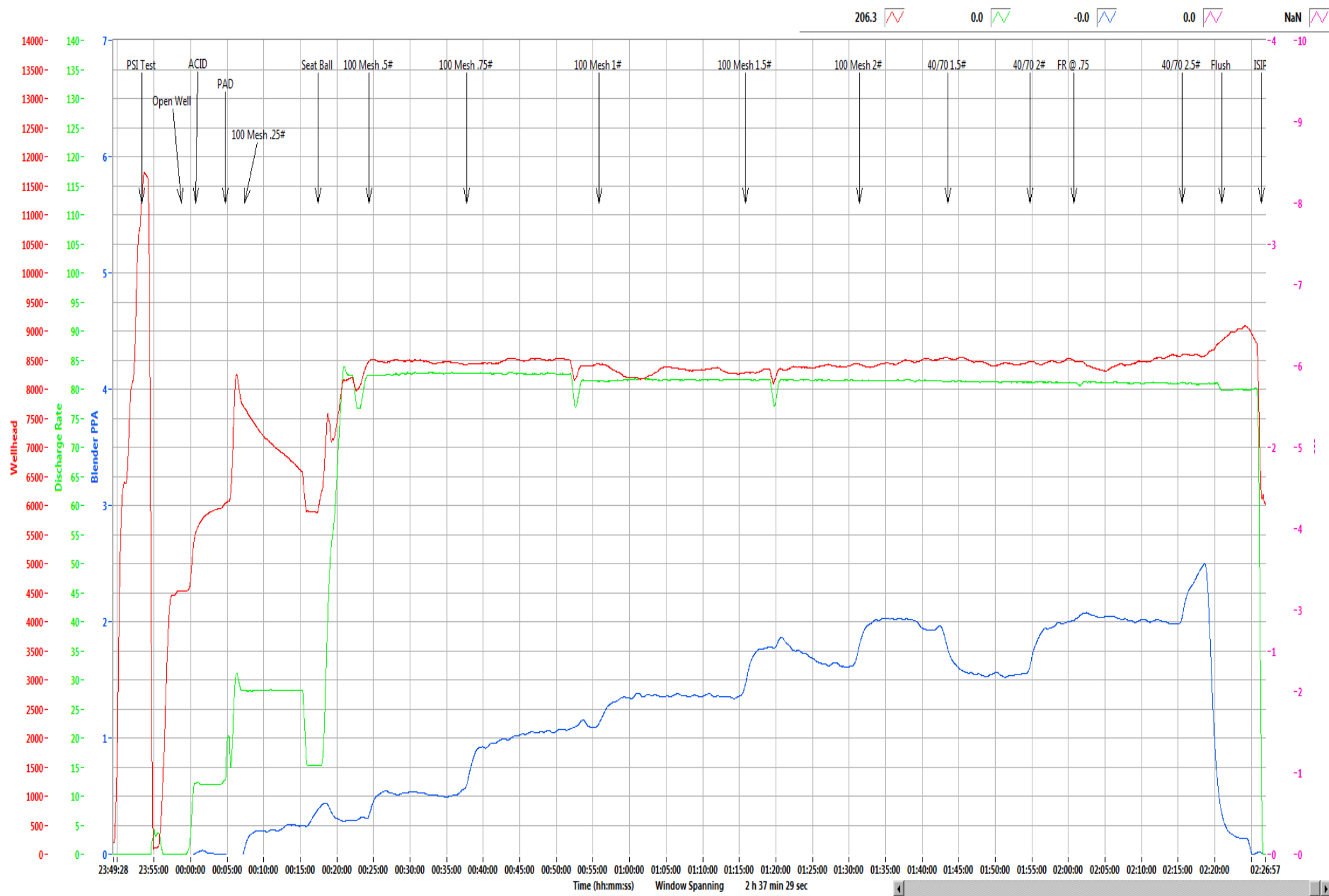
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	3000	GAL	\$ 1.25	\$ 3,750.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	6	GAL	\$ 35.00	\$ 210.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	3,044.00	CWT	\$ 5.50	\$ 16,742.00
SAND 40/70	40/70 white	1,961.40	CWT	\$ 5.75	\$ 11,278.05
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	358	GAL	\$ 17.75	\$ 6,354.50
BIOC11219A	Biocide @ 0.25 GPT	118	GAL	\$ 16.00	\$ 1,888.00
SCAL16846A	Scale Control @ 0.05 GPT	27	GAL	\$ 16.00	\$ 432.00
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		250.27	TON	\$ 55.00	\$ 13,764.85
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 74,219.40
				25% Discount Applied	\$ 18,554.85
				Net Stage Total	\$ 55,664.55

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

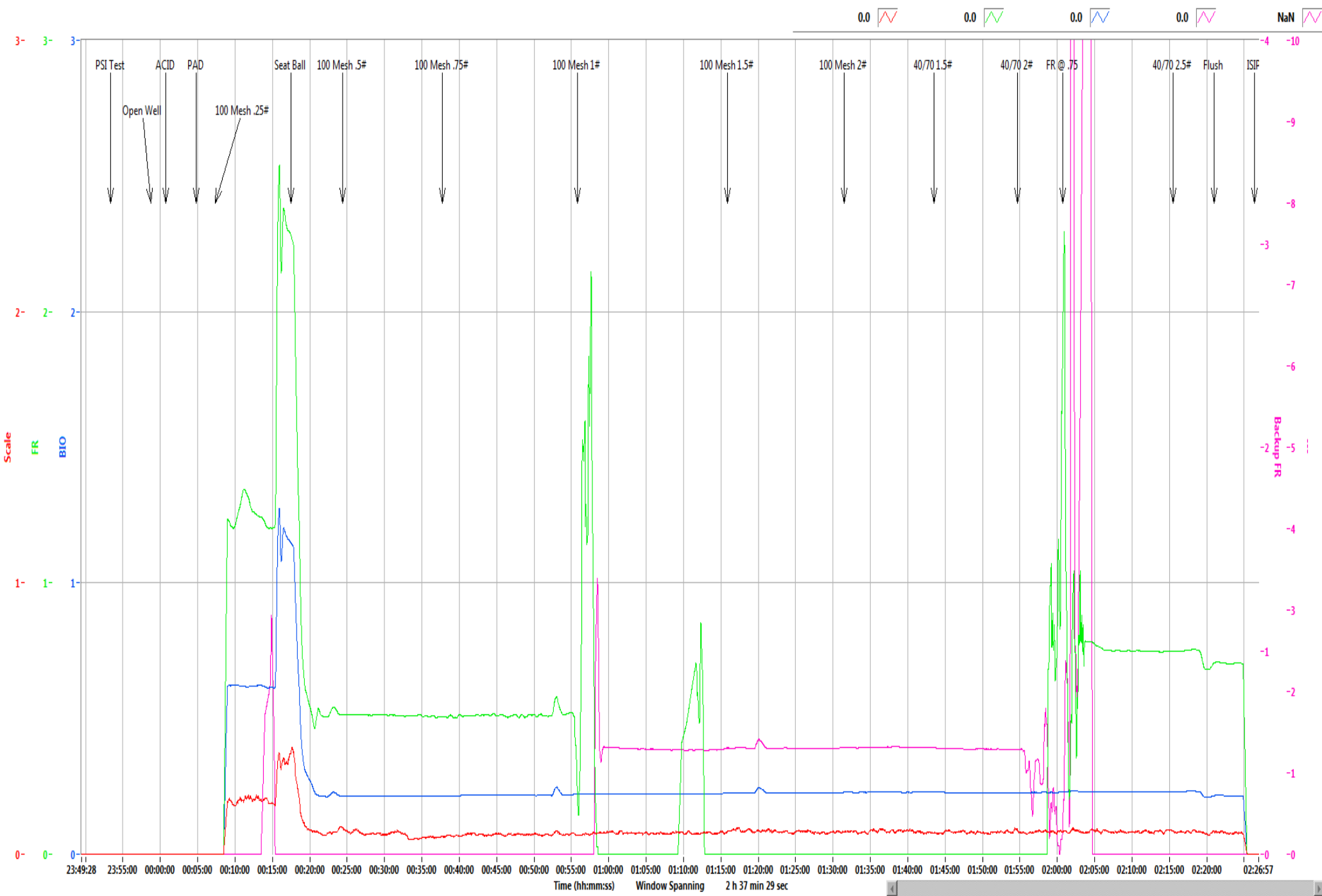


NNE
Boggess 17H
Stage 6
Producers Service Corp.

Post Stage Report
September 26, 2019



Refresh Graph



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Boggess Pad 17H

Stage	6
Date:	9/25/19
OWP (psi):	4,520
Starting Time	11:58 PM
Ending Time	2:27 AM
Pump Time (hr:min)	02:29
Swap Time (hr:min)	00:55
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,309
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,417
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,700
Displacement (psi)	8,851
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)	10,146
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	470
Pad (bbls)	68
Treatment (bbls)	9,725
Displacement (bbls)	395
(Acid Included) Total (bbls)	10,194
Dirty Job Total (bbls)	10,758
100 Mesh	300,940
40/70	197,620
Total Proppant (lbs)	498,560
Total Proppant %	99.7%

CHEMICALS

FR 9800	232
Biocide	108
Scale	22

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



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

Invoice #: 23107
Date: 9/26/2019
Well Name: Boggest 17H /
Stage No.: 6 /

State: WV
County: Monongahela
Operator: Stetson/Moon
PO/AFE: 100430

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	2000	/ GAL	\$ 1.25	\$ 2,500.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	4	GAL	\$ 35.00	\$ 140.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	3,009.40	/ CWT	\$ 5.50	\$ 16,551.70
SAND 40/70	40/70 white	1,976.20	/ CWT	\$ 5.75	\$ 11,363.15
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	232	/ GAL	\$ 17.75	\$ 4,118.00
BIOC11219A	Biocide @ 0.25 GPT	108	/ GAL	\$ 16.00	\$ 1,728.00
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		249.28	TON	\$ 55.00	\$ 13,710.40
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -

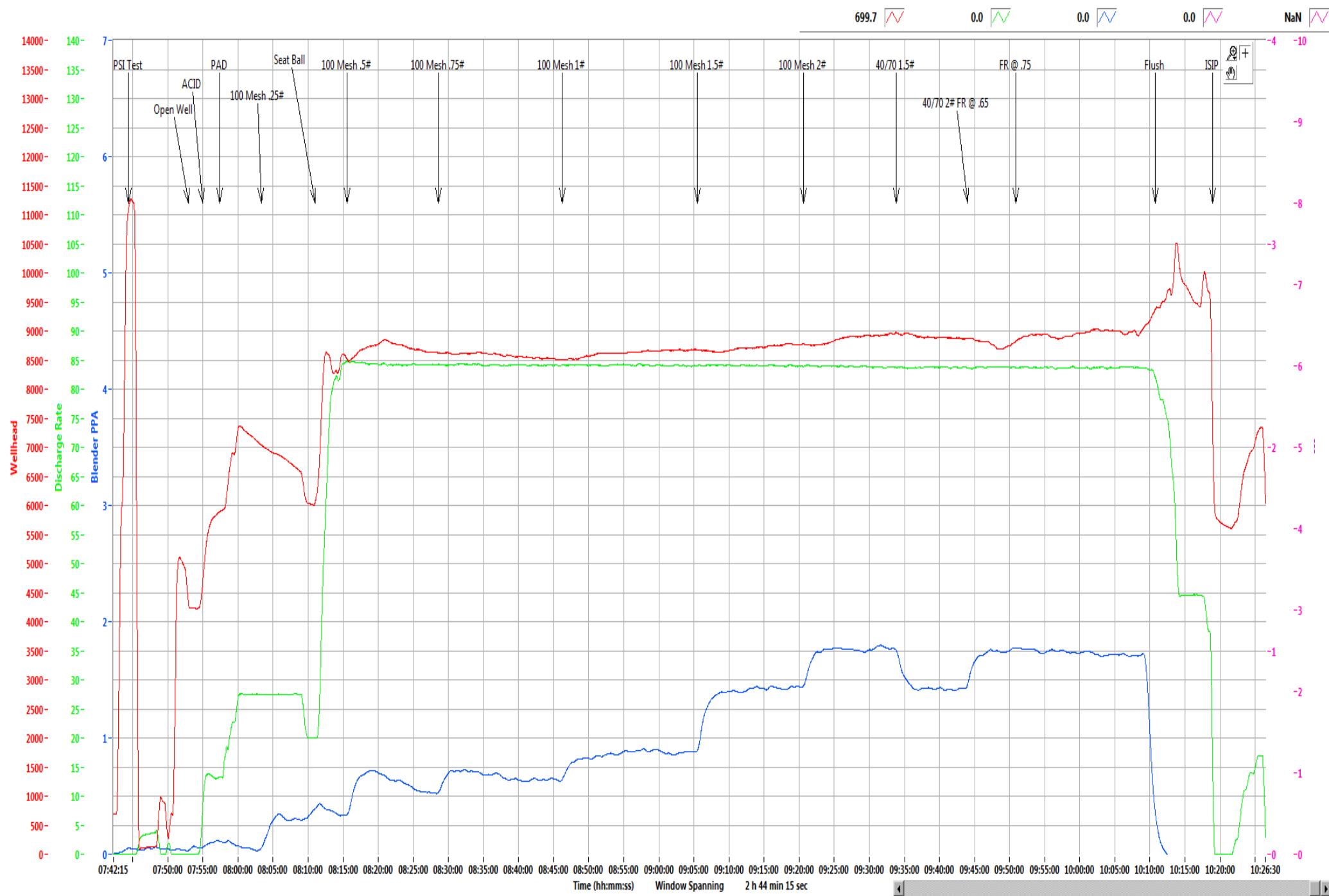
Total No Discount \$ 70,263.25
25% Discount Applied \$ 17,565.81
Net Stage Total \$ 52,697.44

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

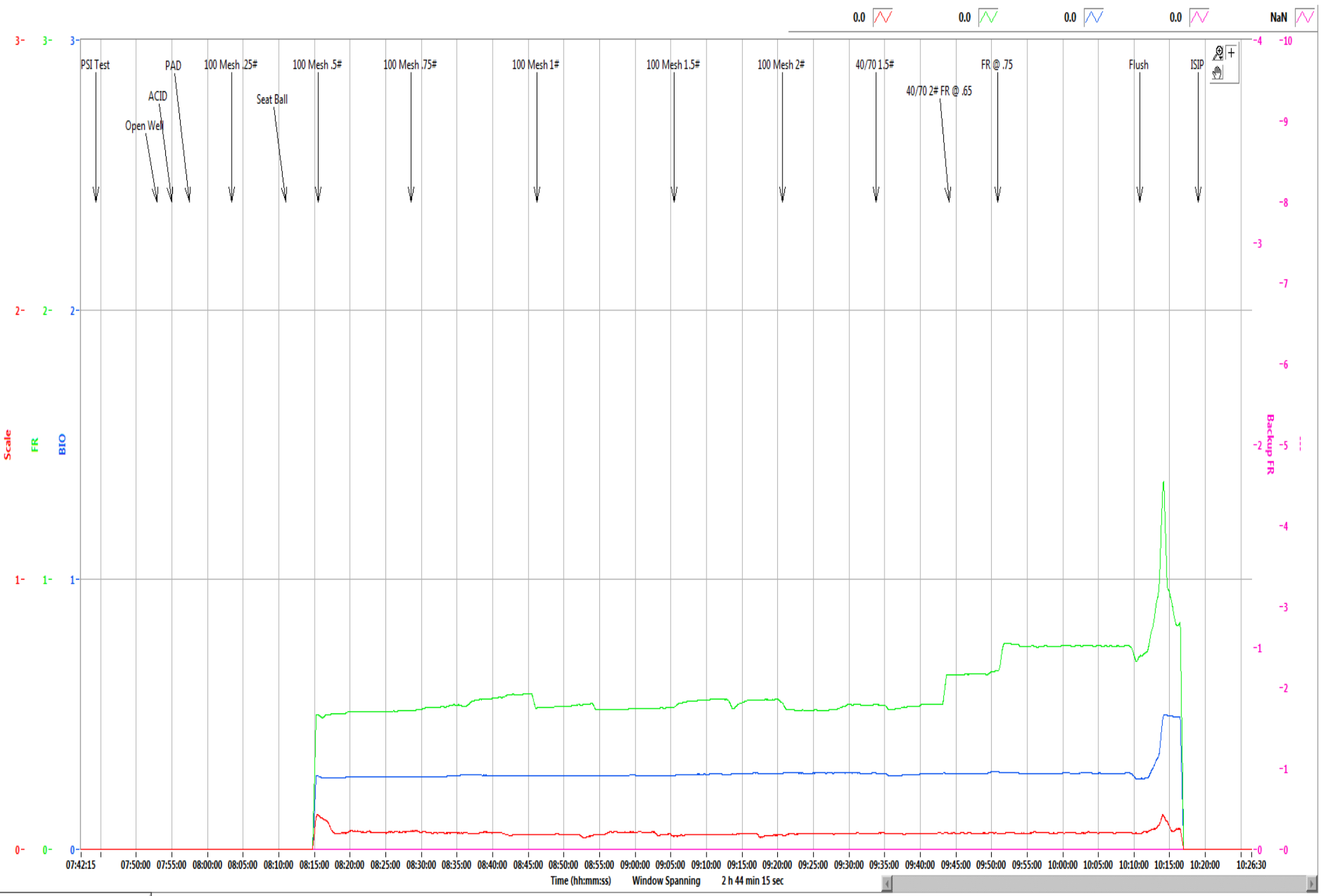


NNE
Boggess 17H
Stage 7
Producers Service Corp.

Post Stage Report
September 26, 2019



Refresh Graph



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Boggess Pad 17H

Stage	7
Date:	9/26/19
OWP (psi):	4,219
Starting Time	7:52 AM
Ending Time	10:18 AM
Pump Time (hr:min)	02:26
Swap Time (hr:min)	00:51
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,319
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,757
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	10,770
Displacement (psi)	9,457
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,856
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)	10,206
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	459
Pad (bbls)	150
Treatment (bbls)	9,674
Displacement (bbls)	425
(Acid Included) Total (bbls)	10,254
Dirty Job Total (bbls)	10,792
100 Mesh	302,460
40/70	201,940
Total Proppant (lbs)	504,400
Total Proppant %	100.9%

CHEMICALS

FR 9800	245
Biocide	110
Scale	25

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



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

Invoice #: 23109
 Date: 9/26/2019
 Well Name: Bogges 17H
 Stage No.: 7

State: WV
 County: Monongahela
 Operator: Brad/Joe
 PO/AFE: 100430

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	3,024.60	CWT	\$ 5.50	\$ 16,635.30
SAND 40/70	40/70 white	2,019.40	CWT	\$ 5.75	\$ 11,611.55
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	245	GAL	\$ 17.75	\$ 4,348.75
BIOC11219A	Biocide @ 0.25 GPT	110	GAL	\$ 16.00	\$ 1,760.00
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		252.2	TON	\$ 55.00	\$ 13,871.00
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 71,066.60
				25% Discount Applied	\$ 17,766.65
				Net Stage Total	\$ 53,299.95

(Print Name)
 Customer Rep:

E. Boone

Customer Signature:

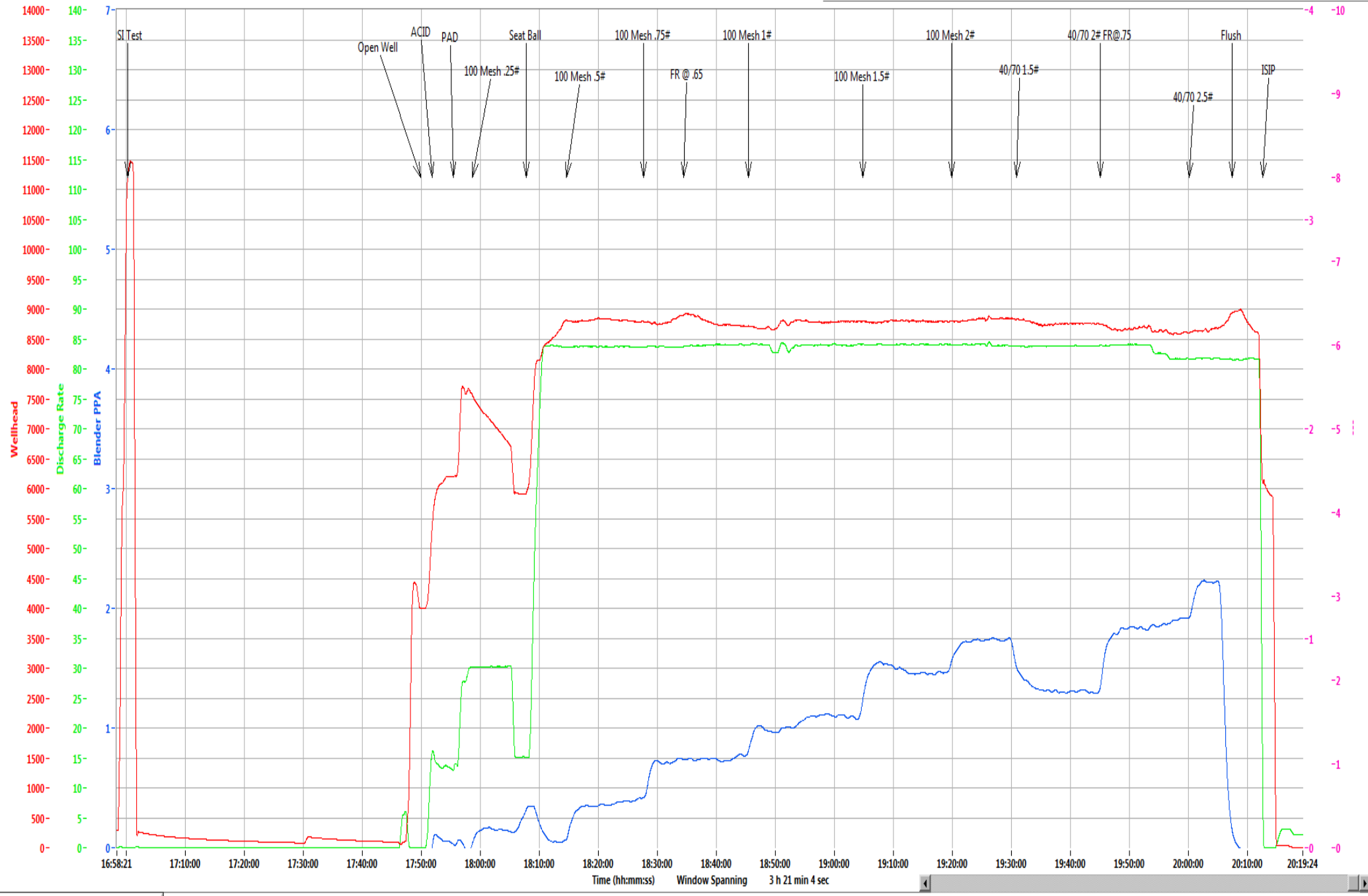
E. Boone



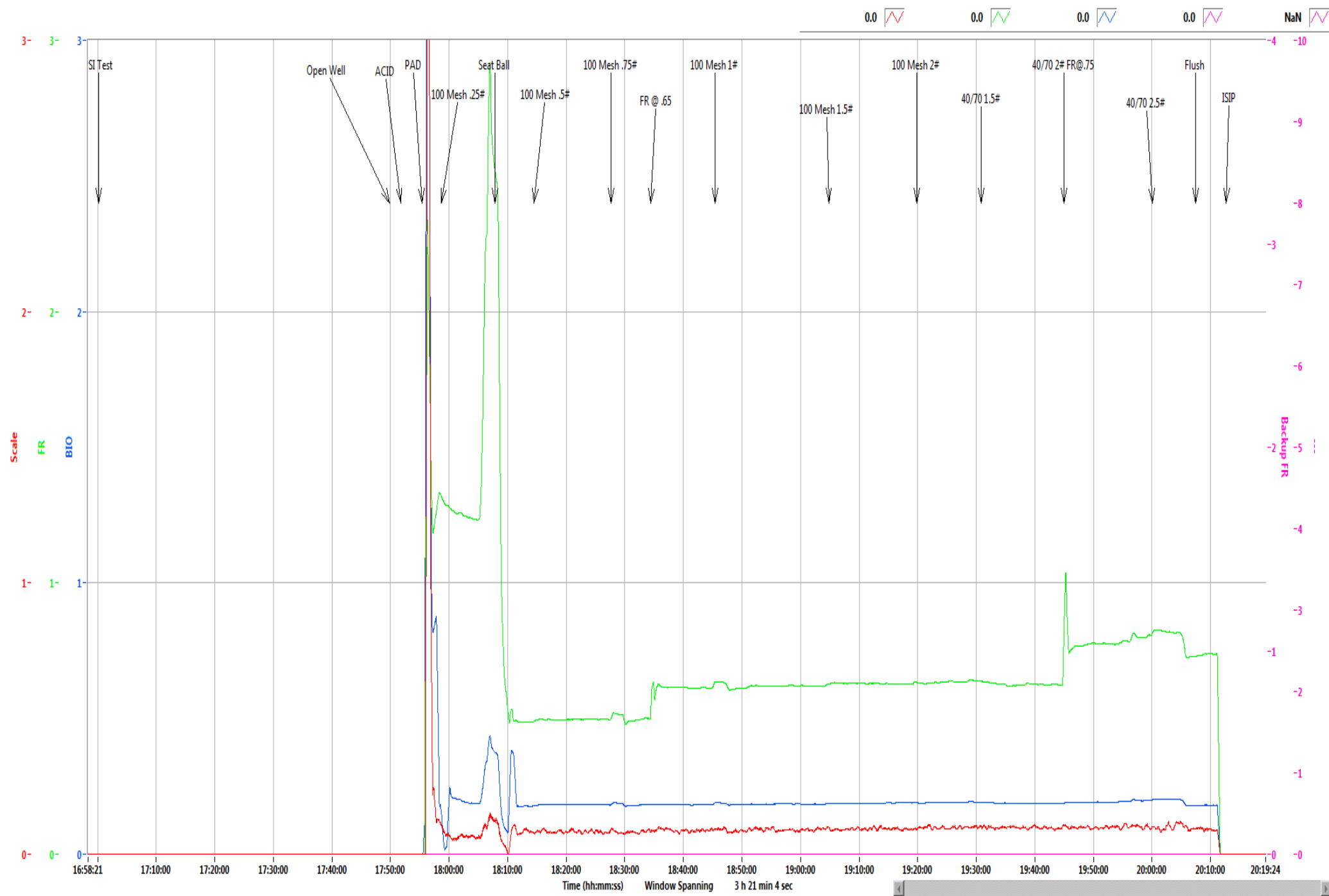
NNE
Boggess 17H
Stage 8
Producers Service Corp.

Post Stage Report
September 26, 2019

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Boggess Pad 17H

Stage	8
Date:	9/26/19
OWP (psi):	3,997
Starting Time	5:49 PM
Ending Time	8:12 PM
Pump Time (hr:min)	02:23
Swap Time (hr:min)	03:11
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	697
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,764
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,009
Displacement (psi)	8,927
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,881
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)	10,104
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	520
Pad (bbls)	79
Treatment (bbls)	9,678
Displacement (bbls)	395
(Acid Included) Total (bbls)	10,152
Dirty Job Total (bbls)	10,688
100 Mesh	294,560
40/70	204,240
Total Proppant (lbs)	498,800
Total Proppant %	99.8%

CHEMICALS

FR 9800	255
Biocide	107
Scale	21

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



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

Invoice #: 23111
Date: 9/26/2019
Well Name: Bogness 17H
Stage No.: 8

State: WV
County: Monongahela
Operator: Brad/Joe
PO/A/E: 100430

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	2,945.60	CWT	\$ 5.50	\$ 16,200.80
SAND 40/70	40/70 white	2,042.40	CWT	\$ 5.75	\$ 11,743.80
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	255	GAL	\$ 17.75	\$ 4,526.25
BIOC11219A	Biocide @ 0.25 GPT	107	GAL	\$ 16.00	\$ 1,712.00
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		249.4	TON	\$ 55.00	\$ 13,717.00
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 70,675.85
				25% Discount Applied	\$ 17,668.96
				Net Stage Total	\$ 53,006.89

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

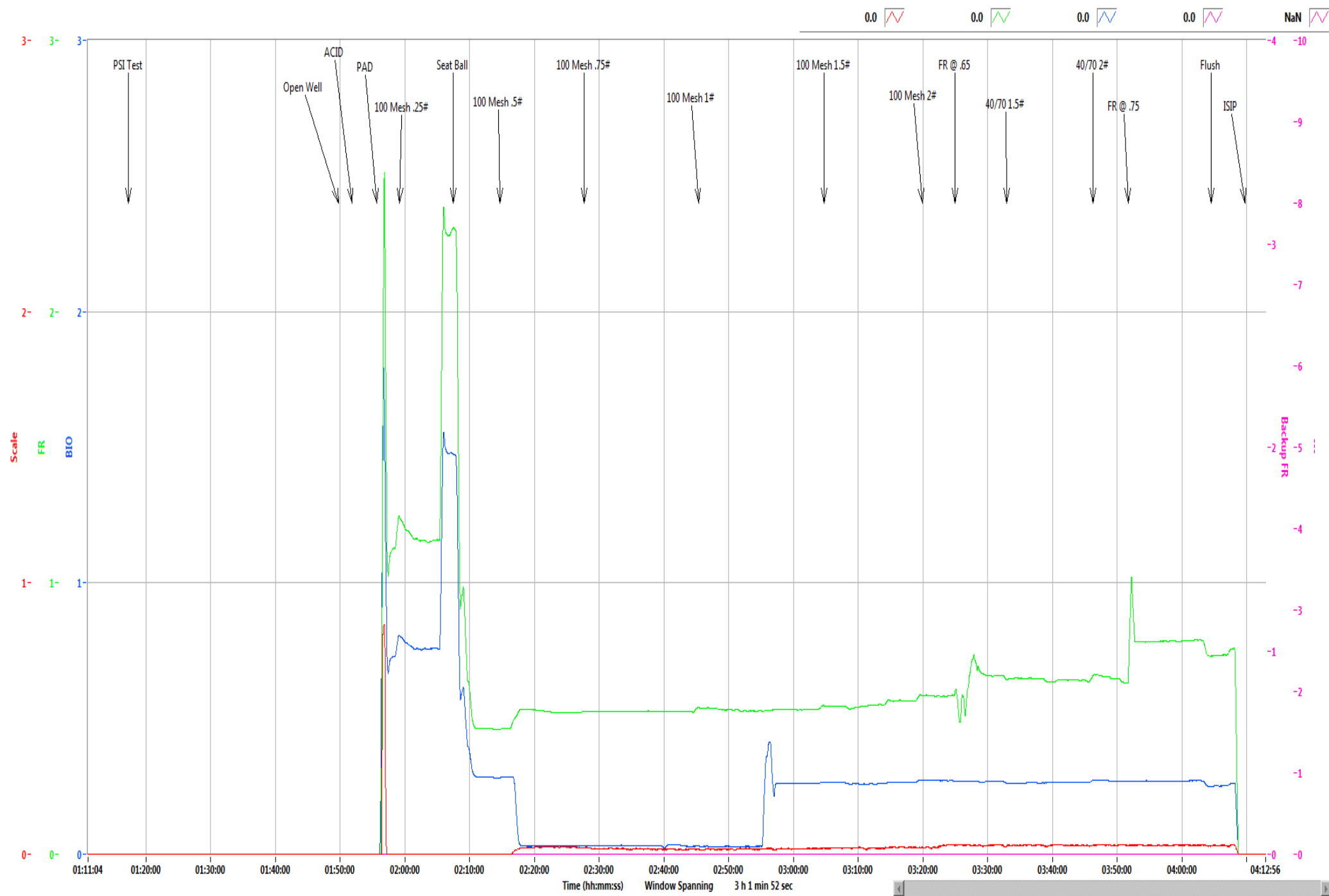


NNE
Boggess 17H
Stage 9
Producers Service Corp.

Post Stage Report
September 27, 2019



Refresh Graph



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Boggess Pad 17H

Stage	9
Date:	9/27/19
OWP (psi):	3,954
Starting Time	1:49 AM
Ending Time	4:09 AM
Pump Time (hr:min)	02:20
Swap Time (hr:min)	02:30
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,384
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	9,015
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,568
Displacement (psi)	9,567
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	5,948
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)	9,861
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	412
Pad (bbls)	89
Treatment (bbls)	9,428
Displacement (bbls)	392
(Acid Included) Total (bbls)	9,909
Dirty Job Total (bbls)	10,366
100 Mesh	300,200
40/70	161,070
Total Proppant (lbs)	461,270
Total Proppant %	92.3%

CHEMICALS

FR 9800	235
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 #: 23113
Date: 9/27/2019
Well Name: Boggress 17H
Stage No.: 9

State: WV
County: Monongahela
Operator: Moon/Tilton
PO/AFE: 100430

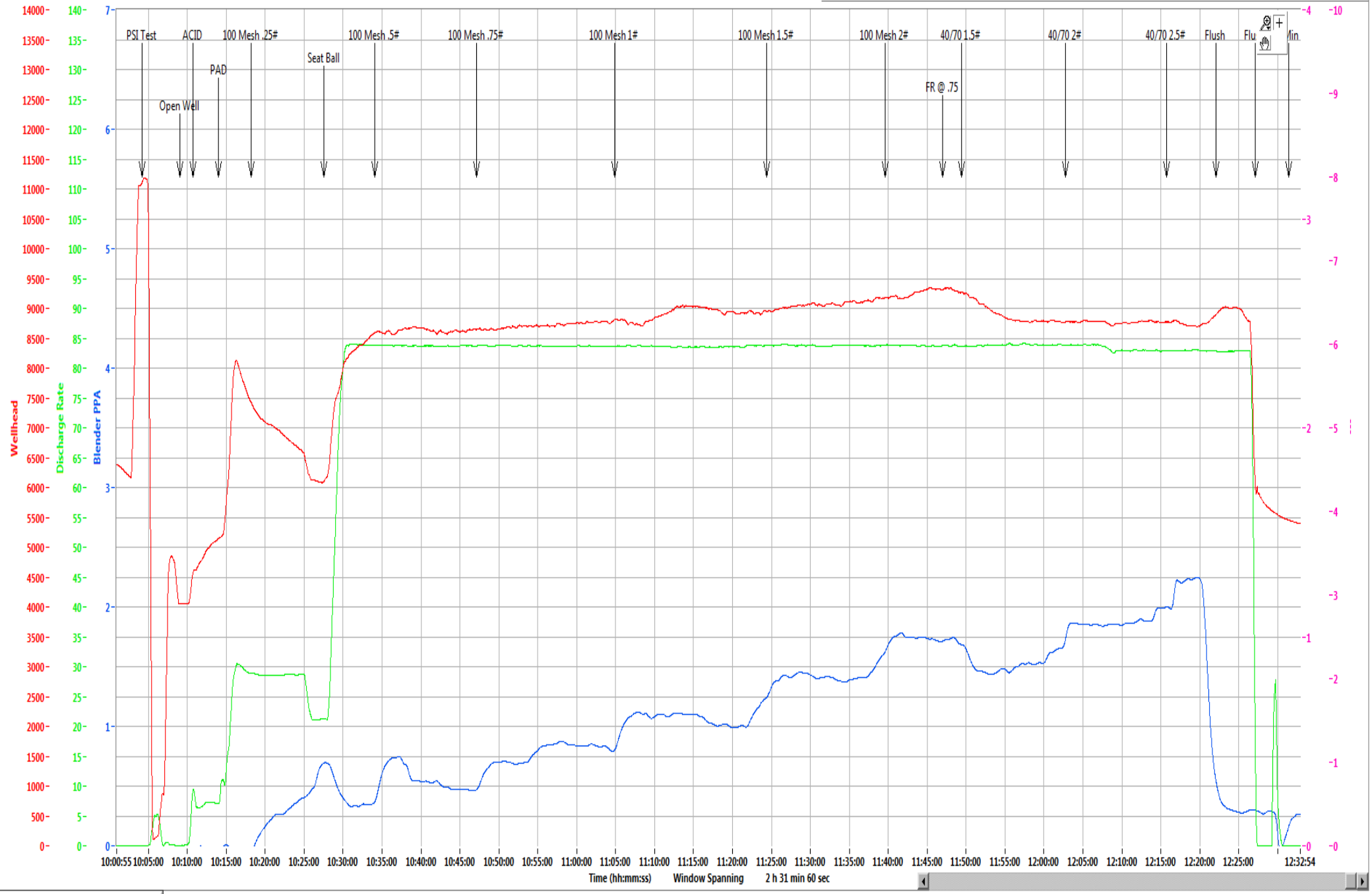
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,002.00	CWT	\$ 5.50	\$ 16,511.00
SAND 40/70	40/70 white	1,610.70	CWT	\$ 5.75	\$ 9,261.53
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	235	GAL	\$ 17.75	\$ 4,171.25
BIOC11219A	Biocide @ 0.25 GPT	100	GAL	\$ 16.00	\$ 1,600.00
SCAL16846A	Scale Control @ 0.05 GPT	20	GAL	\$ 16.00	\$ 320.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		1	STAGE	\$ 400.00	\$ 400.00
COMMAND CENTER		0	STAGE	\$ 1,500.00	\$ -
PUMP DOWN FOR PERFORATING		0	STAGE	\$ 1,500.00	\$ -
ARROWS UP SYSTEM		230.635	TON	\$ 55.00	\$ 12,684.93
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 66,988.70
				25% Discount Applied	\$ 16,747.18
				Net Stage Total	\$ 50,241.53

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

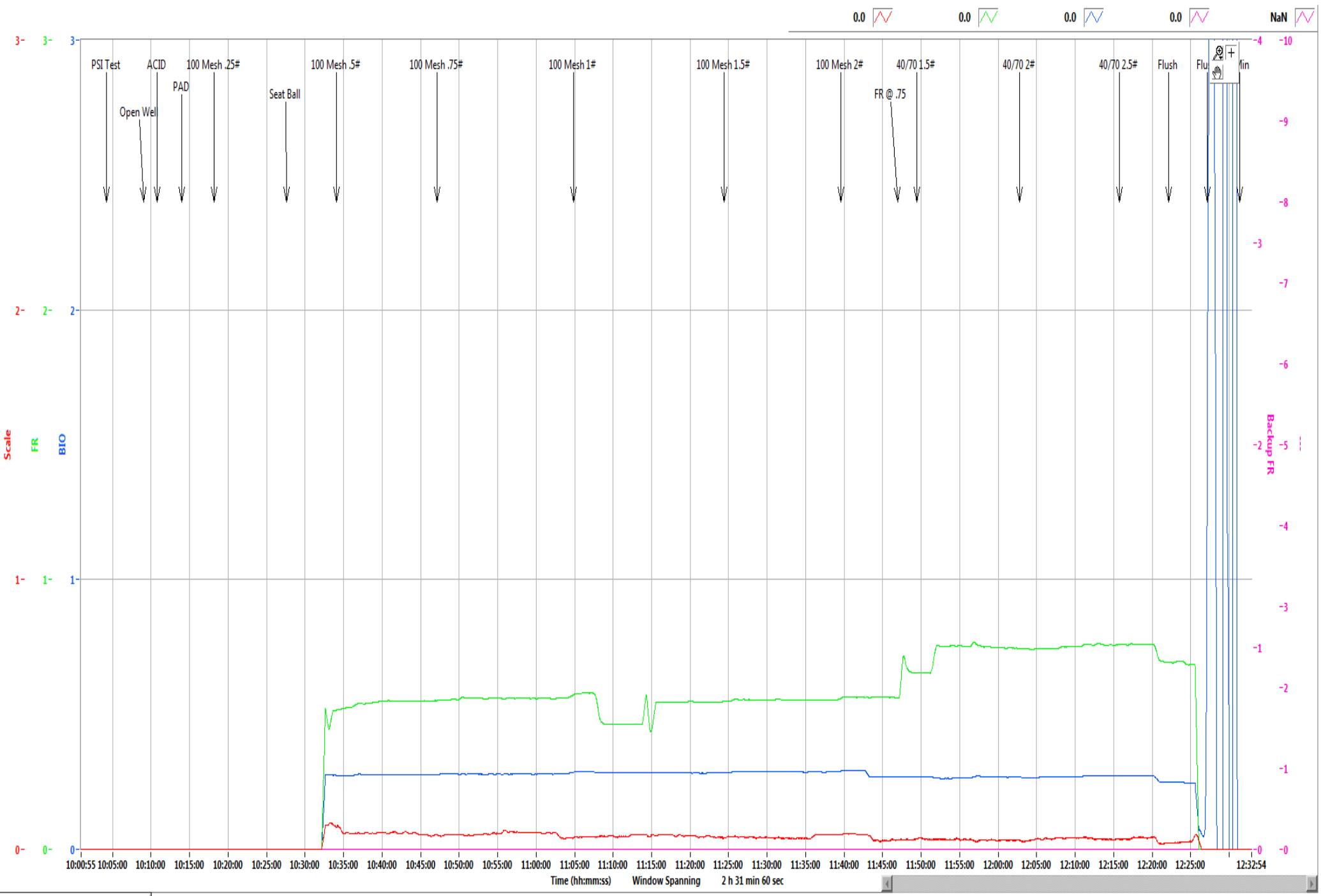


NNE
Boggess 17H
Stage 10
Producers Service Corp.

Post Stage Report
September 27, 2019



Refresh Graph



Refresh Graph

Boggess Pad 17H

Stage	10
Date:	5/27/19
OWP (psi):	4,051
Starting Time	10:09 AM
Ending Time	12:27 PM
Pump Time (hr:min)	02:18
Swap Time (hr:min)	03:30
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,233
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,854
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,393
Displacement (psi)	8,952
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,740
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)	9,718
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	441
Pad (bbls)	100
Treatment (bbls)	9,277
Displacement (bbls)	381
(Acid Included) Total (bbls)	9,766
Dirty Job Total (bbls)	10,268
100 Mesh	299,640
40/70	197,940
Total Proppant (lbs)	497,580
Total Proppant %	99.5%

CHEMICALS

FR 9800	231
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 #: 23115
Date: 9/27/2019
Well Name: Bogges 17H
Stage No.: 10

State: WV
County: Monongahela
Operator: Brad/Joe
PO/AFE: 100430

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	2000	GAL	\$ 1.25	\$ 2,500.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	4	GAL	\$ 35.00	\$ 140.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,996.40	CWT	\$ 5.50	\$ 16,480.20
SAND 40/70	40/70 white	1,979.40	CWT	\$ 5.75	\$ 11,381.55
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	231	GAL	\$ 17.75	\$ 4,100.25
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		248.79	TON	\$ 55.00	\$ 13,683.45
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 70,133.45
				25% Discount Applied	\$ 17,533.36
				Net Stage Total	\$ 52,600.09

(Print Name)
Customer Rep:

E. Boone

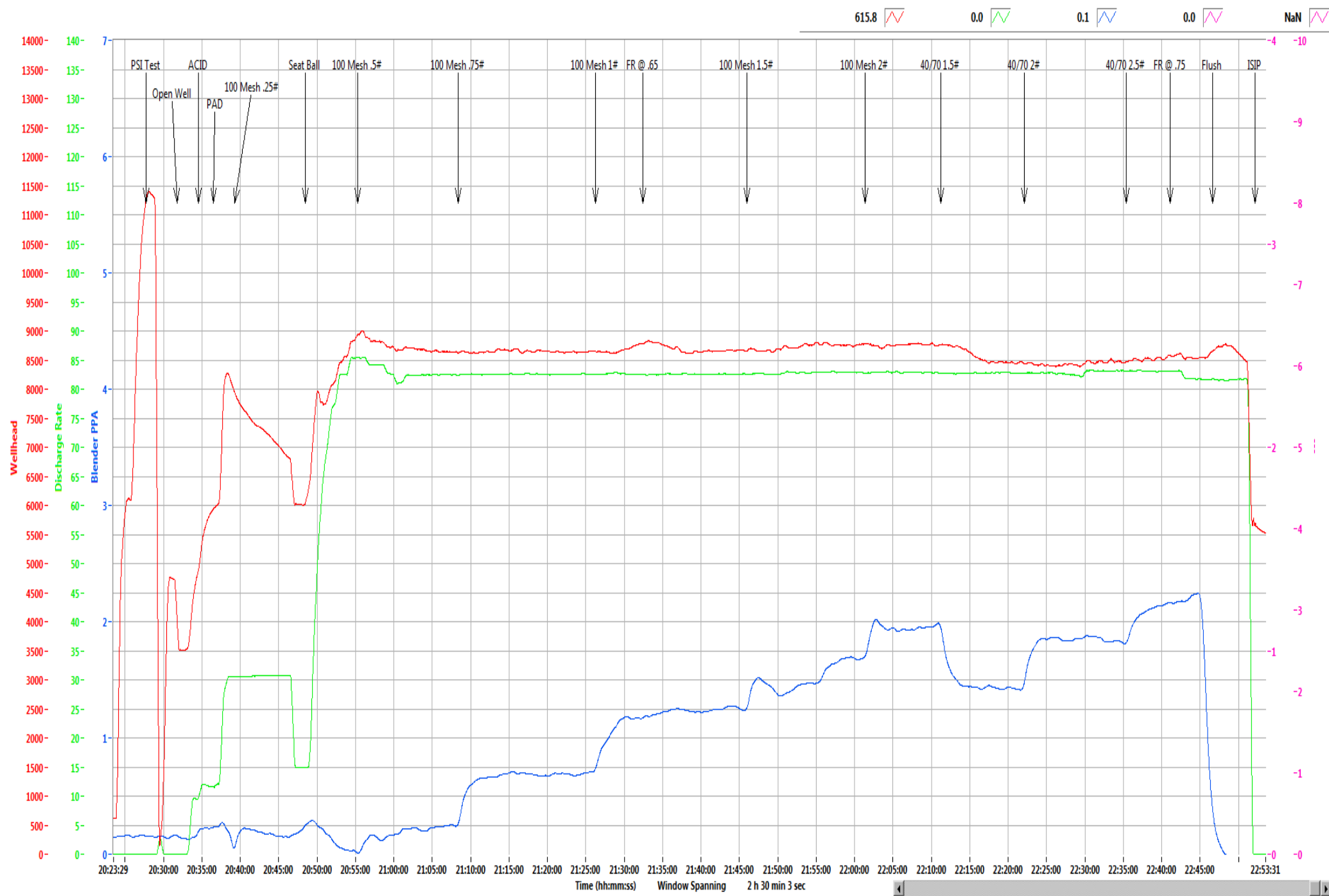
Customer Signature:

E. Boone

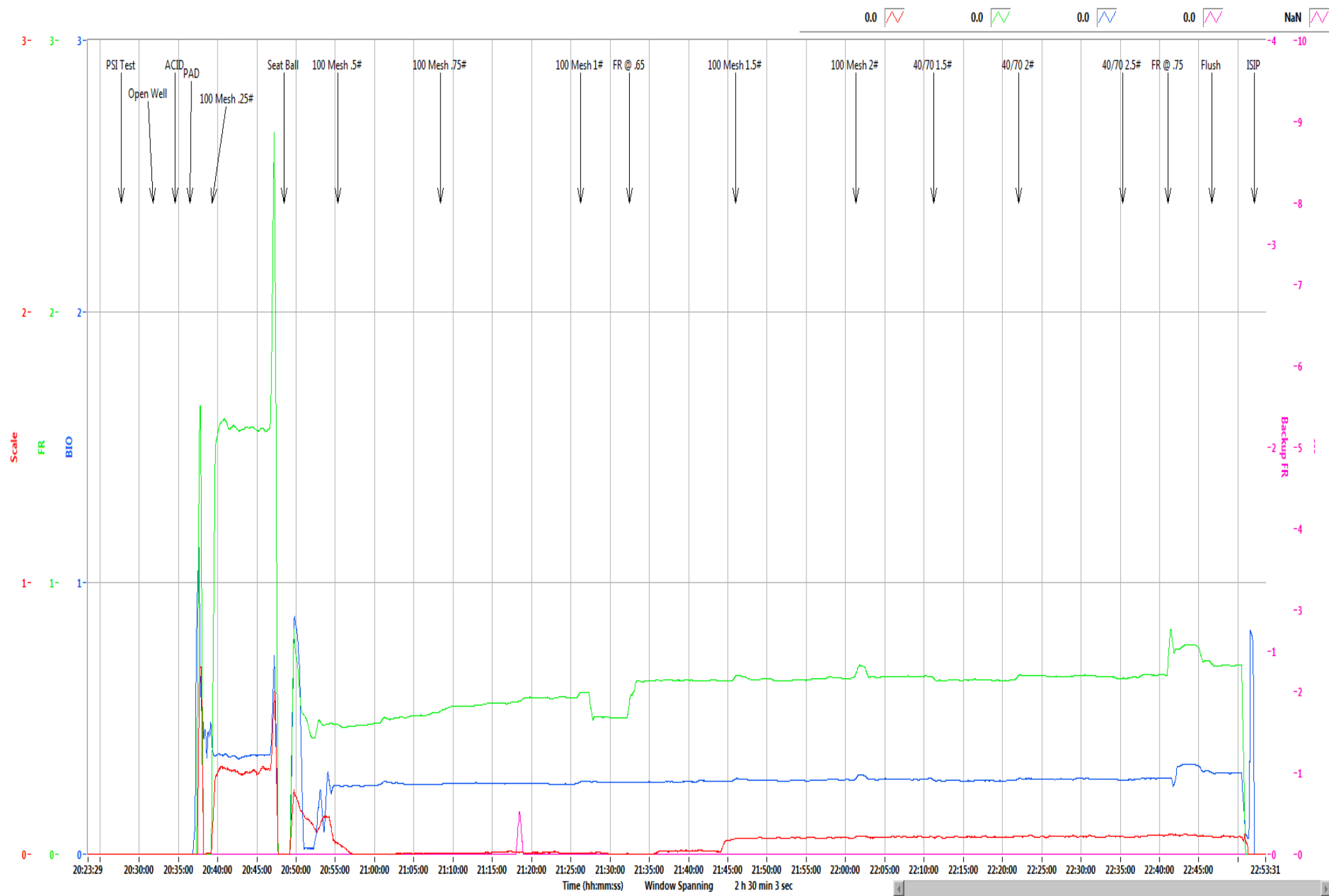


NNE
Boggess 17H
Stage 11
Producers Service Corp.

Post Stage Report
September 27, 2019



Refresh Graph



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Boggess Pad	17H
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Stage	11
Date:	5/21/19
OWP (psi):	3,499
Starting Time	8:27 PM
Ending Time	10:52 PM
Pump Time (hr:min)	02:25
Swap Time (hr:min)	02:46
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,335
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,645
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,067
Displacement (psi)	8,663
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,576
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)	9,922
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	452
Pad (bbls)	70
Treatment (bbls)	9,453
Displacement (bbls)	378
(Acid Included) Total (bbls)	9,946
Dirty Job Total (bbls)	10,421
100 Mesh	300,160
40/70	200,520
Total Proppant (lbs)	500,680
Total Proppant %	100.1%

CHEMICALS

FR 9800	247
Biocide	103
Scale	21

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




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

Invoice #: 23117
 Date: 9/27/2019
 Well Name: Bogges 17H
 Stage No.: 11

State: WV
 County: Monongahela
 Operator: Jeremy T/Jeremy M
 PO/AFE: 100430

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	3,001.60	CWT	\$ 5.50	\$ 16,508.80
SAND 40/70	40/70 white	2,005.20	CWT	\$ 5.75	\$ 11,529.90
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	247	GAL	\$ 17.75	\$ 4,384.25
BIOC11219A	Biocide @ 0.25 GPT	103	GAL	\$ 16.00	\$ 1,648.00
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		250.34	TON	\$ 55.00	\$ 13,768.70
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 69,295.65
				25% Discount Applied	\$ 17,323.91
				Net Stage Total	\$ 51,971.74

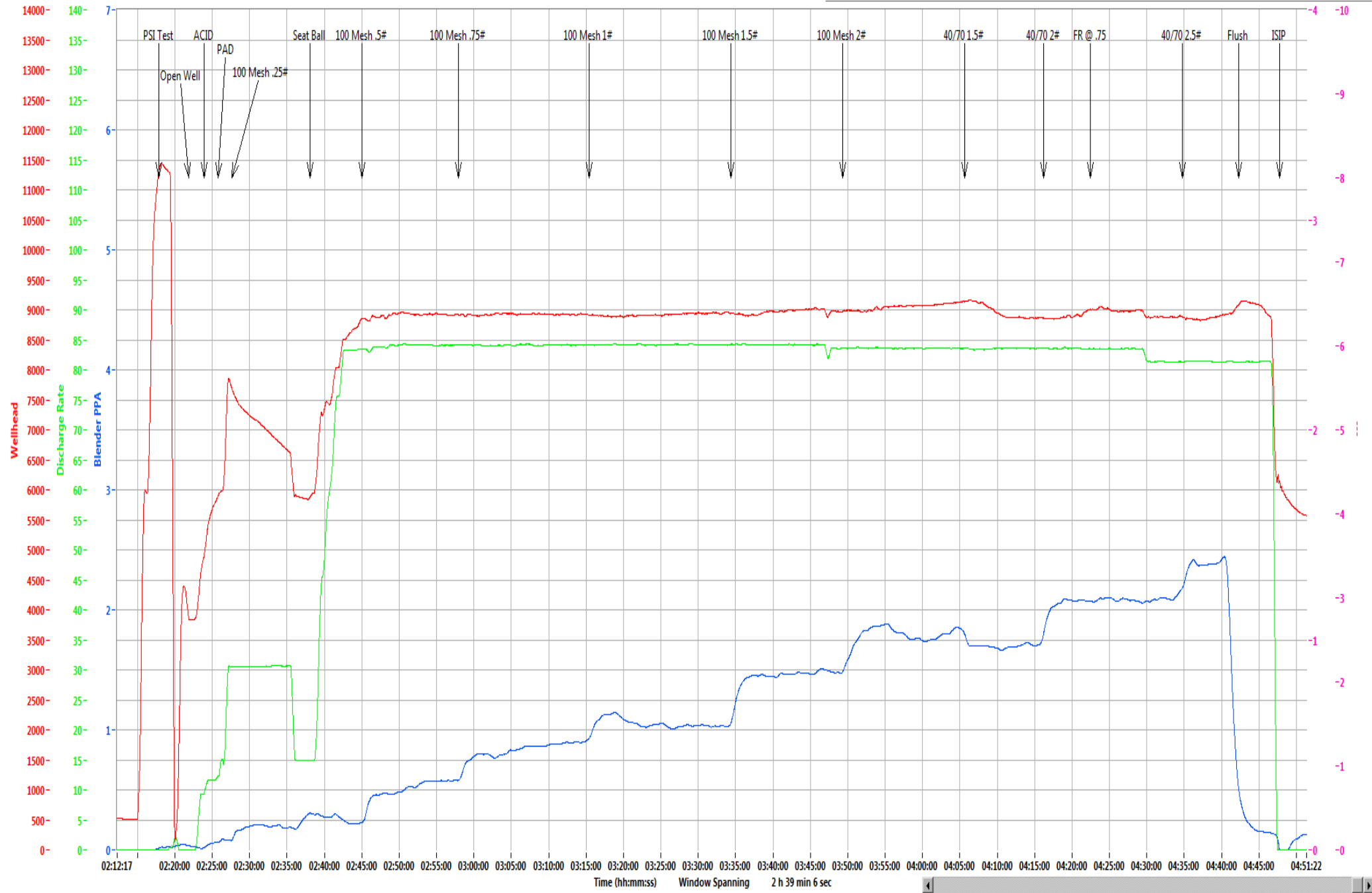
(Print Name) Customer Rep: Mike Janner Customer Signature: 



NNE
Boggess 17H
Stage 12
Producers Service Corp.

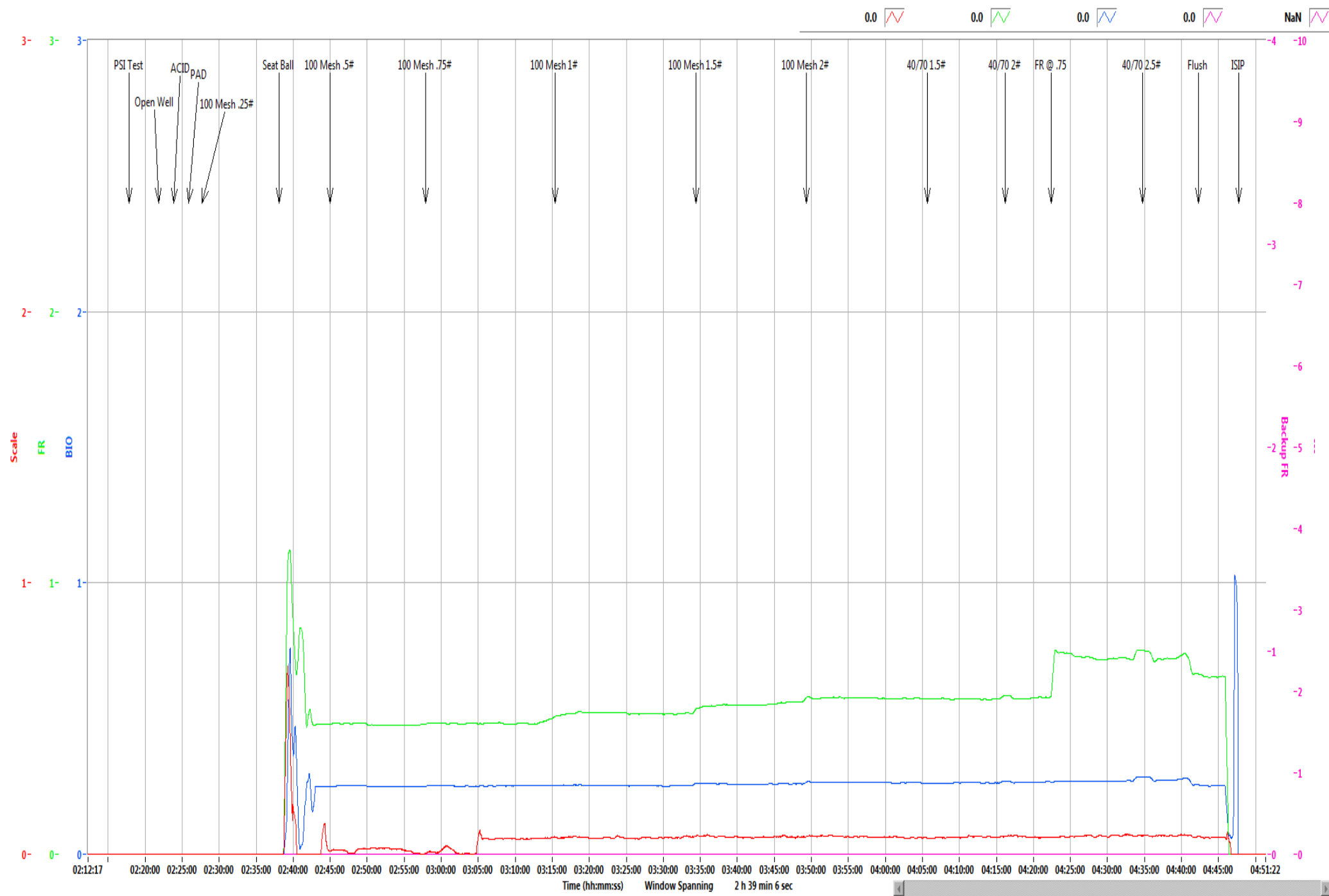
Post Stage Report
September 28, 2019

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Time (hh:mm:ss) Window Spanning 2 h 39 min 6 sec

Refresh Graph



Refresh Graph

Bogges Pad 17H

Stage	12
Date:	9/28/19
OWP (psi):	3,844
Starting Time	2:17 AM
Ending Time	4:47 AM
Pump Time (hr:min)	02:30
Swap Time (hr:min)	00:25
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,960
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,935
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,222
Displacement (psi)	9,115
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,809
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)	10,519
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	440
Pad (bbls)	46
Treatment (bbls)	10,083
Displacement (bbls)	368
(Acid Included) Total (bbls)	10,543
Dirty Job Total (bbls)	10,983
100 Mesh	299,460
40/70	200,560
Total Proppant (lbs)	500,020
Total Proppant %	100.0%

CHEMICALS

FR 9800	240
Biocide	109
Scale	23

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




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

Invoice #: 23119
 Date: 9/28/2019
 Well Name: Bogges 17H
 Stage No.: 12

State: WV
 County: Monongahela
 Operator: Jeremy T/Jeremy M
 PO/AFE: 100430

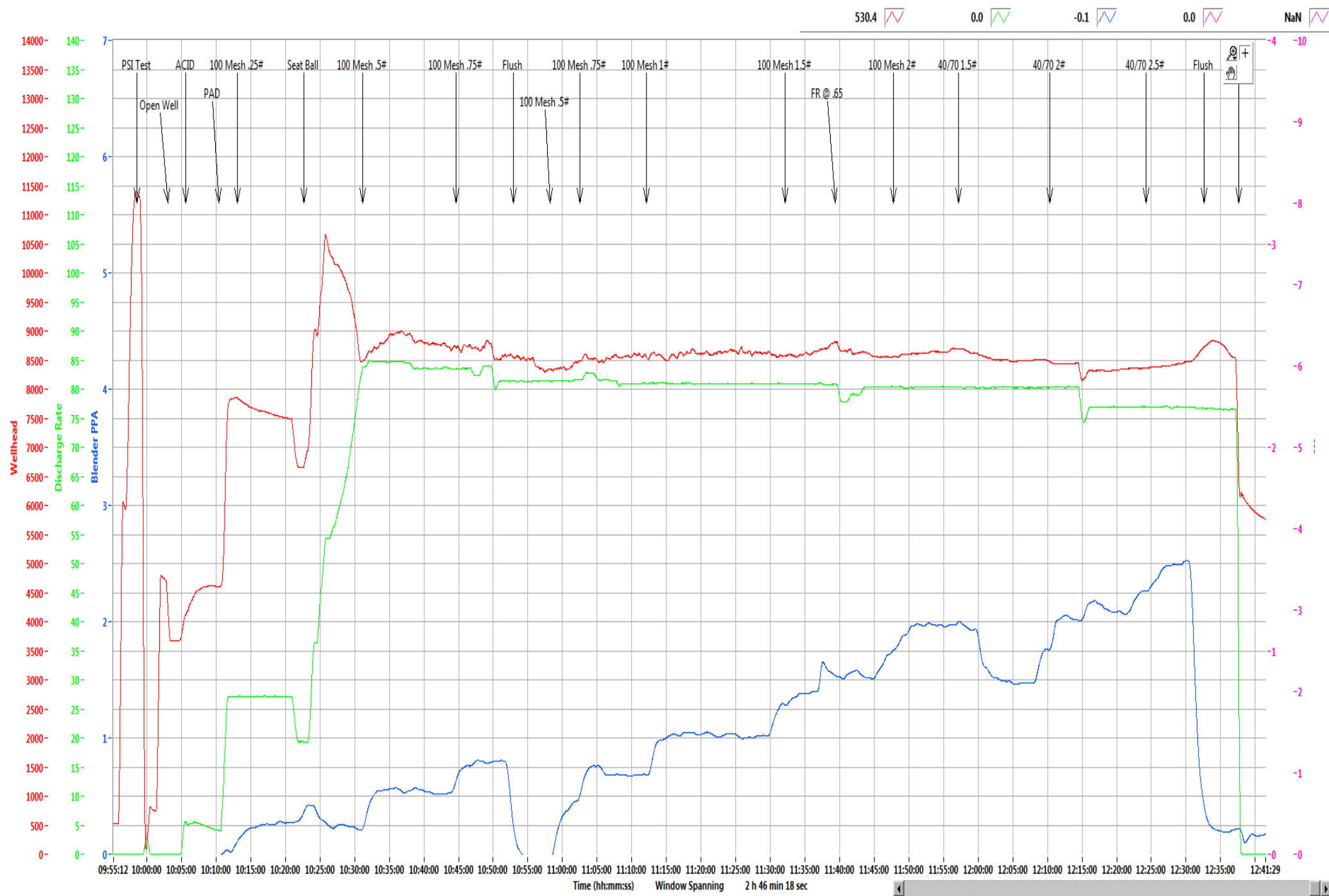
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	2,994.60	CWT	\$ 5.50	\$ 16,470.30
SAND 40/70	40/70 white	2,005.60	CWT	\$ 5.75	\$ 11,532.20
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	240	GAL	\$ 17.75	\$ 4,260.00
BIOC11219A	Biocide @ 0.25 GPT	109	GAL	\$ 16.00	\$ 1,744.00
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		250.01	TON	\$ 55.00	\$ 13,750.55
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 69,245.05
				25% Discount Applied	\$ 17,311.26
				Net Stage Total	\$ 51,933.79

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

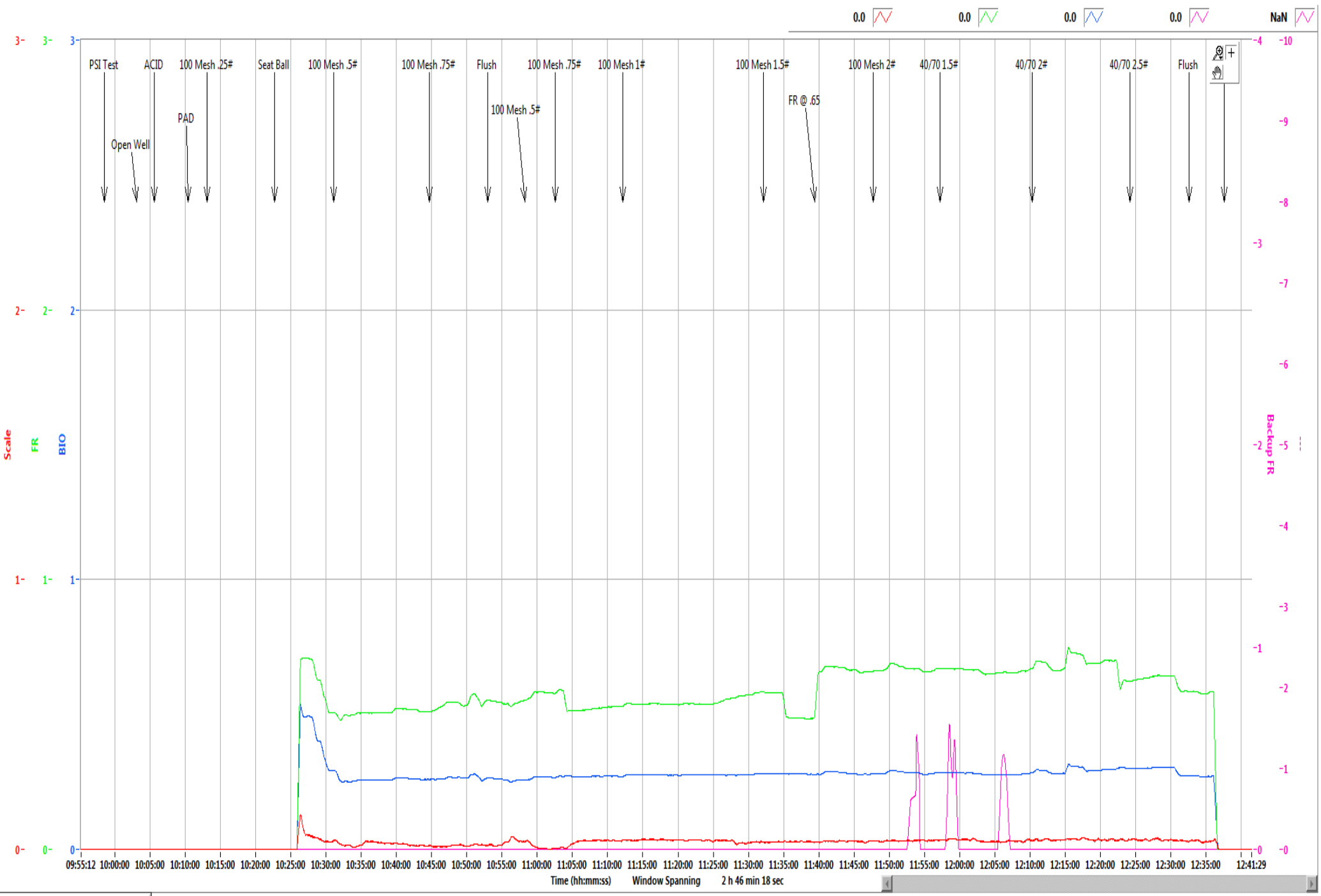


NNE
Boggess 17H
Stage 13
Producers Service Corp.

Post Stage Report
September 28, 2019



Refresh Graph



Refresh Graph

Boggess Pad 17H

Stage	13
Date:	9/28/19
OWP (psi):	3,691
Starting Time	10:03 AM
Ending Time	12:37 PM
Pump Time (hr:min)	02:34
Swap Time (hr:min)	01:03
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,953
Average Treating Rate (bbl/min)	81
Average Treating Pressure (psi)	8,570
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	10,730
Displacement (psi)	8,702
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,159
Final FG (psi/ft)	1.20
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)	-48
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	462
Pad (bbls)	59
Treatment (bbls)	10,164
Displacement (bbls)	
(Acid Included) Total (bbls)	
Dirty Job Total (bbls)	
100 Mesh	306,620
40/70	193,020
Total Proppant (lbs)	499,640
Total Proppant %	99.9%

CHEMICALS

FR 9800	224
Biocide	103
Scale	18

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



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

Invoice #: 23121
 Date: 9/28/2019
 Well Name: Boggess 17H
 Stage No.: 13

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100430

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	3,066.20	CWT	\$ 5.50	\$ 16,864.10
SAND 40/70	40/70 white	1,930.20	CWT	\$ 5.75	\$ 11,098.65
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	224	GAL	\$ 17.75	\$ 3,976.00
BIOC11219A	Biocide @ 0.25 GPT	103	GAL	\$ 16.00	\$ 1,648.00
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		249.82	TON	\$ 55.00	\$ 13,740.10
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 70,054.85
				25% Discount Applied	\$ 17,513.71
				Net Stage Total	\$ 52,541.14

(Print Name)
 Customer Rep:

E. Seone

Customer Signature:

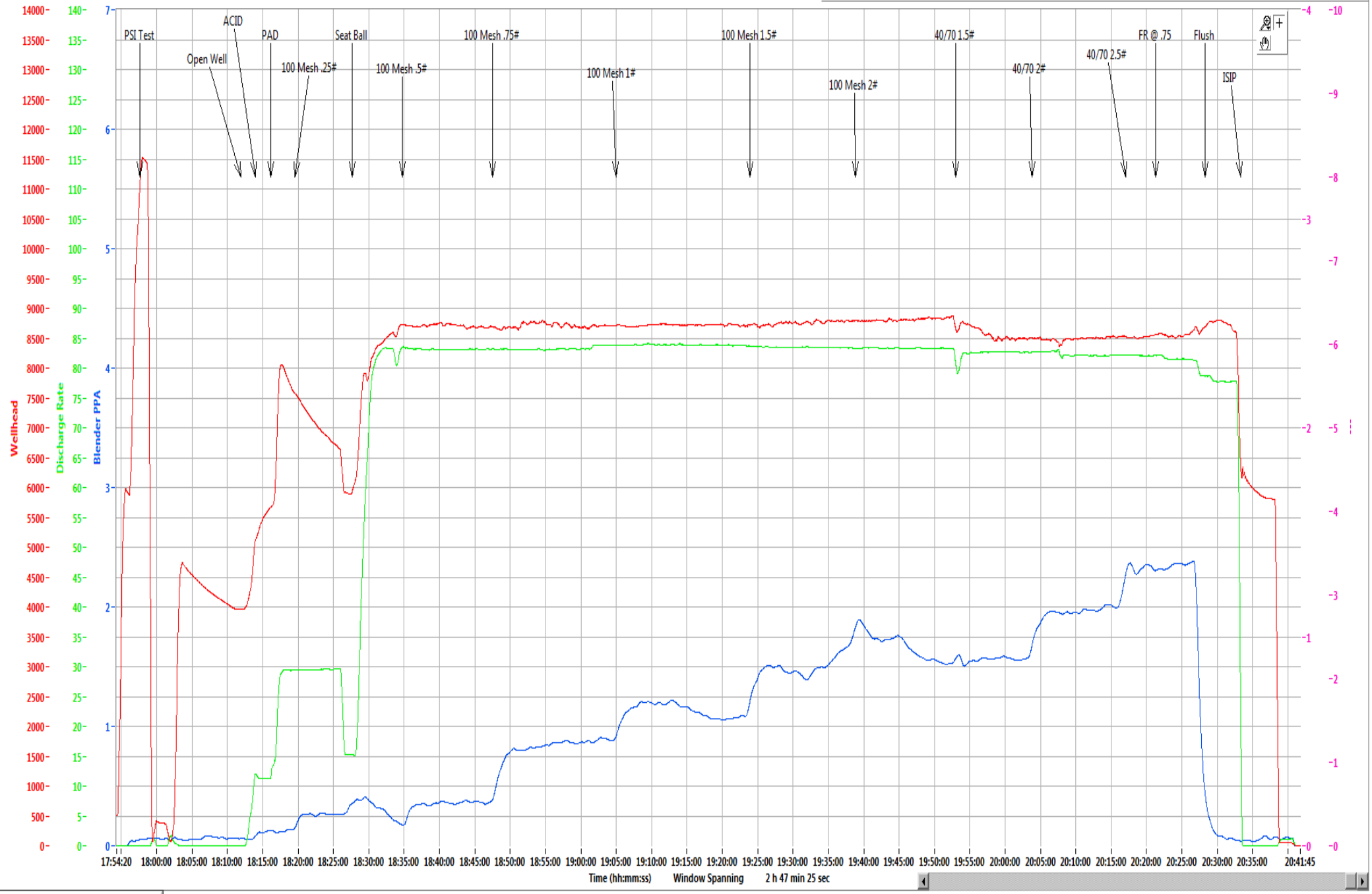
E. Seone



NNE
Boggess 17H
Stage 14
Producers Service Corp.

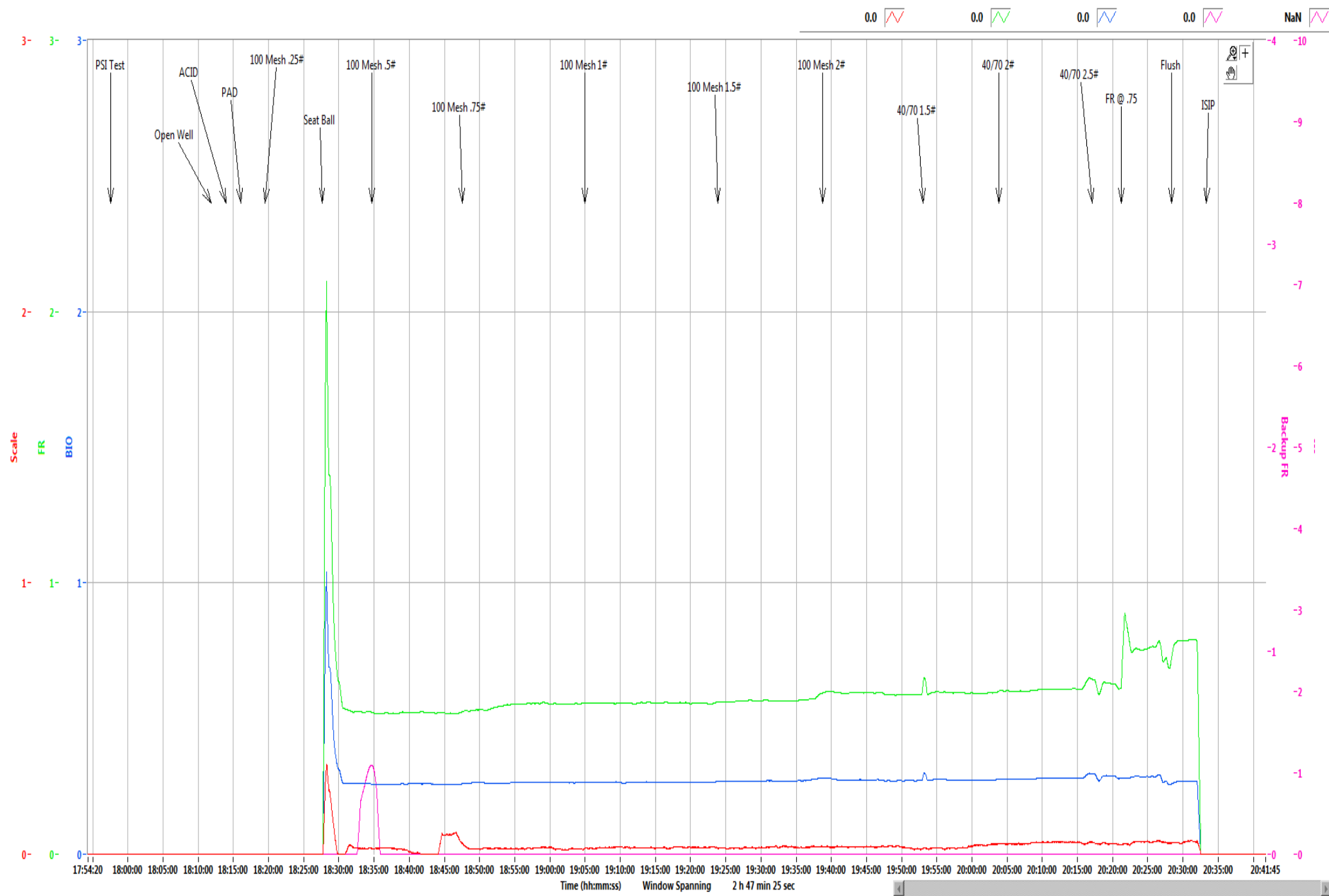
Post Stage Report
September 28, 2019

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Refresh Graph



Refresh Graph

Boggess Pad	17H
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Stage	14
Date:	9/28/19
OWP (psi):	3,966
Starting Time	6:11 PM
Ending Time	8:33 PM
Pump Time (hr:min)	02:22
Swap Time (hr:min)	00:41
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,148
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,671
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,956
Displacement (psi)	8,730
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,758
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)	10,298
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	393
Pad (bbls)	95
Treatment (bbls)	9,859
Displacement (bbls)	367
(Acid Included) Total (bbls)	10,322
Dirty Job Total (bbls)	10,730
100 Mesh	300,320
40/70	201,210
Total Proppant (lbs)	501,530
Total Proppant %	100.3%

CHEMICALS

FR 9800	228
Biocide	108
Scale	22

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




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

Invoice #: 23123
Date: 9/28/2018
Well Name: Boggett 17H
Stage No.: 14

State: WV
County: Monongahela
Operator: Tilton/Moon
PO/A/E: 100430



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	3,003.20	CWT	\$ 5.50	\$ 16,517.60
SAND 40/70	40/70 white	2,012.10	CWT	\$ 5.75	\$ 11,569.58
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	228	GAL	\$ 17.75	\$ 4,047.00
BIOC11219A	Biocide @ 0.25 GPT	108	GAL	\$ 16.00	\$ 1,728.00
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		250.765	TON	\$ 55.00	\$ 13,792.08
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 69,126.25
				25% Discount Applied	\$ 17,281.56
				Net Stage Total	\$ 51,844.69

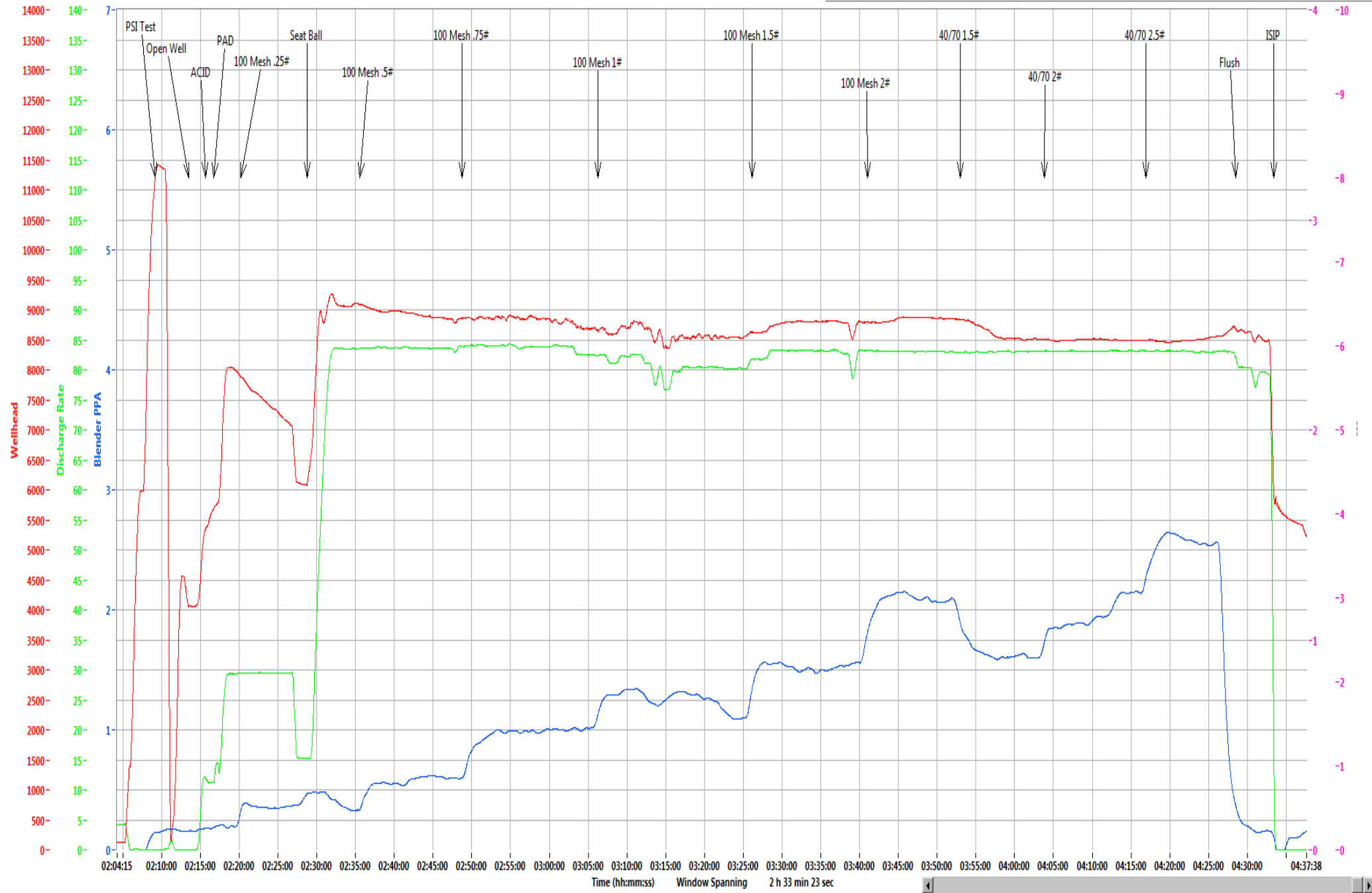
(Print Name) Customer Rep: Mike Inman Customer Signature: 



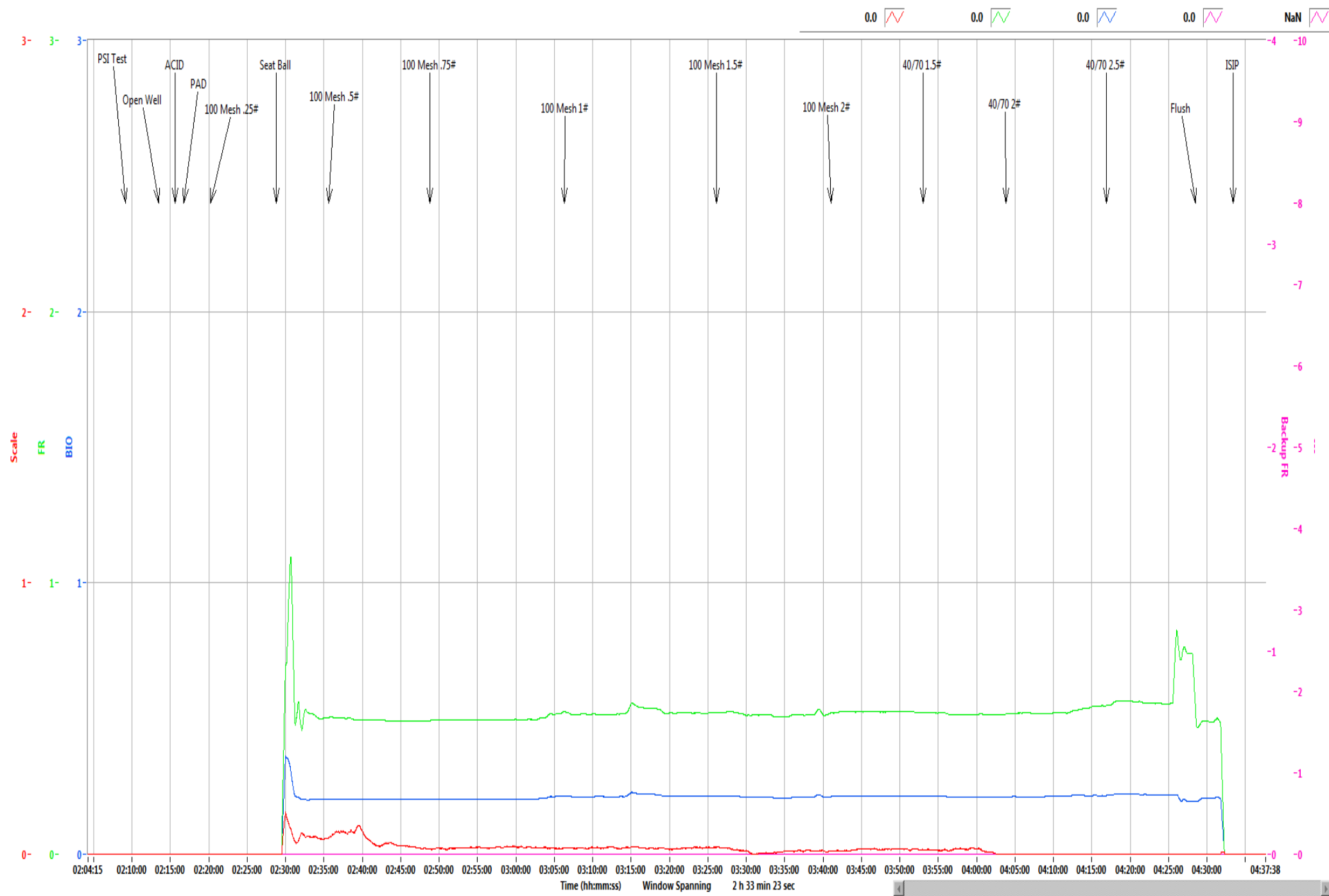
NNE
Boggess 17H
Stage 15
Producers Service Corp.

Post Stage Report
September 29, 2019

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Refresh Graph



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Boggess Pad	17H
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Stage	15
Date:	9/29/19
OWP (psi):	4,062
Starting Time	2:13 AM
Ending Time	4:33 AM
Pump Time (hr:min)	02:20
Swap Time (hr:min)	01:15
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,550
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,714
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,375
Displacement (psi)	8,641
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,527
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)	10,142
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	389
Pad (bbls)	90
Treatment (bbls)	9,697
Displacement (bbls)	367
(Acid Included) Total (bbls)	10,154
Dirty Job Total (bbls)	10,568
100 Mesh	300,080
40/70	200,240
Total Proppant (lbs)	500,320
Total Proppant %	100.1%

CHEMICALS

FR 9800	218
Biocide	107
Scale	21

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



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

Invoice #: 23125
Date: 9/29/2014
Well Name: Bogness 47H
Stage No.: 15

State: WV
County: Monongahela
Operator: Tilton/Moon
PO/AFE: 100430

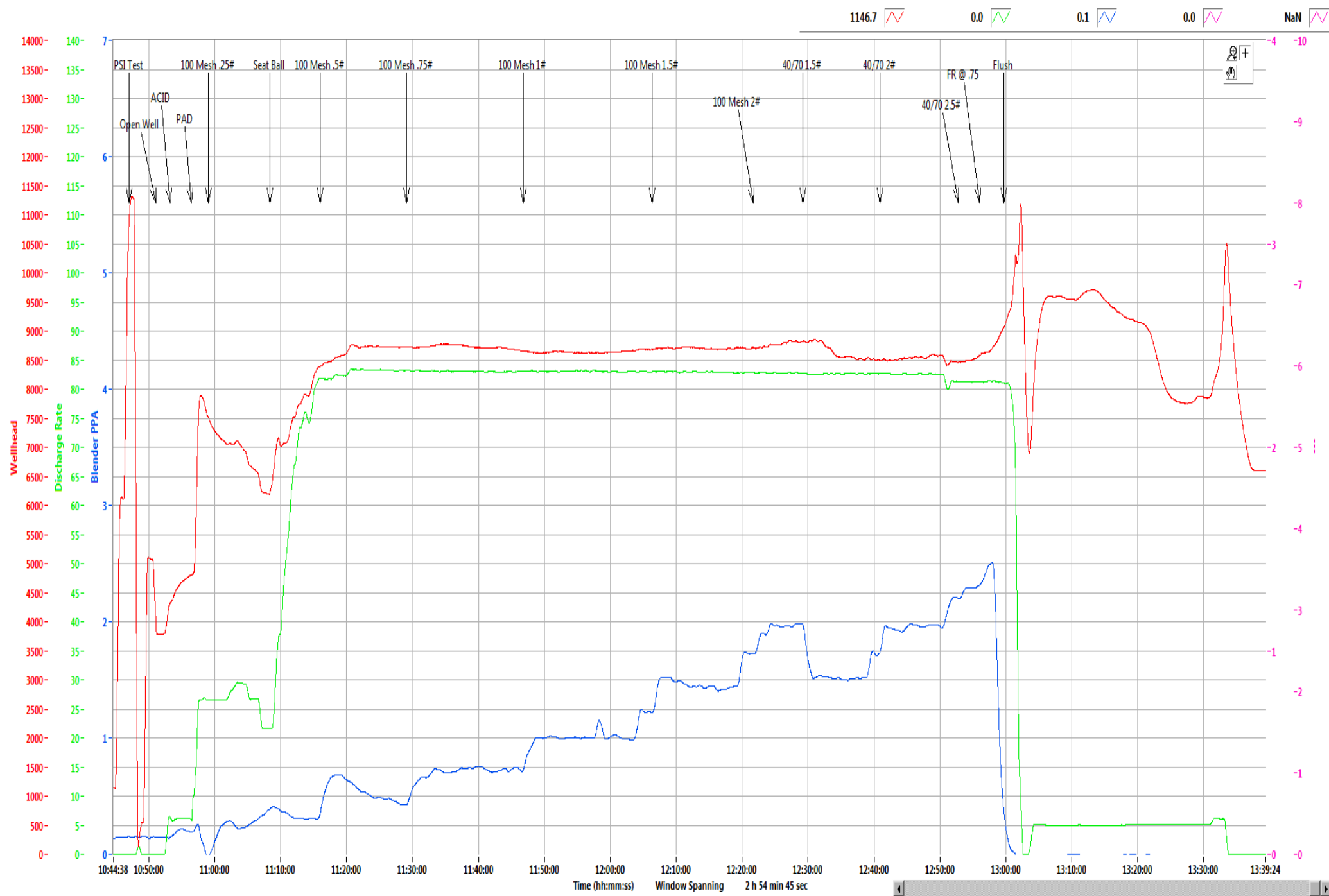
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,000.80	CWT	\$ 5.50	\$ 16,504.40
SAND 40/70	40/70 white	2,002.40	CWT	\$ 5.75	\$ 11,513.80
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	218	GAL	\$ 17.75	\$ 3,869.50
BIOC11219A	Biocide @ 0.25 GPT	107	GAL	\$ 16.00	\$ 1,712.00
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		250.16	TON	\$ 55.00	\$ 13,758.80
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,154.50
				25% Discount Applied	\$ 17,038.63
				Net Stage Total	\$ 51,115.88

(Print Name) MIKE IMMERS Customer Signature: 



**NNE
Boggess 17H
Stage 16
Producers Service Corp.**

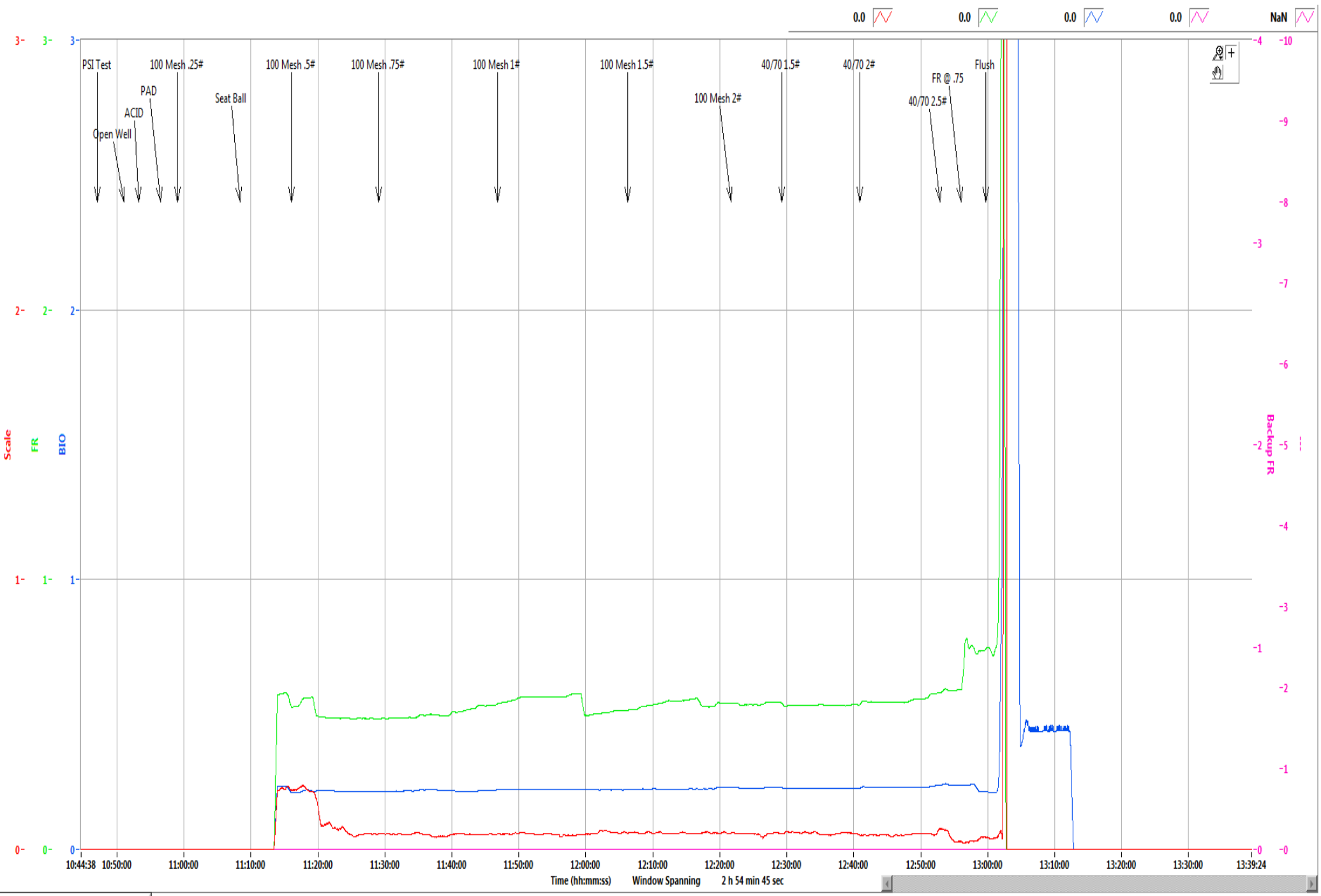
**Post Stage Report
September 29, 2019**



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Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	16
Date:	9/29/19
OWP (psi):	3,805
Starting Time	10:51 AM
Ending Time	12:59 PM
Pump Time (hr:min)	02:08
Swap Time (hr:min)	01:19
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,446
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,645
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	11,423
Displacement (psi)	9,091
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)	9,271
Acid 7.5% HCL (gal)	2,000
Wireline Pump Down (bbls)	381
Pad (bbls)	59
Treatment (bbls)	8,903
Displacement (bbls)	
(Acid Included) Total (bbls)	9,319
Dirty Job Total (bbls)	9,679
100 Mesh	300,280
40/70	199,640
Total Proppant (lbs)	499,920
Total Proppant %	100.0%

CHEMICALS

FR 9800	212
Biocide	100
Scale	23

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



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

Invoice #: 23127
 Date: 9/29/2019
 Well Name: Bogges 17H
 Stage No.: 16

State: WV
 County: Monongahela
 Operator: Brad/Joe
 PO/AFE: 100430

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	1,996.40	CWT	\$ 5.75	\$ 11,479.30
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	212	GAL	\$ 17.75	\$ 3,763.00
BIOC11219A	Biocide @ 0.25 GPT	100	GAL	\$ 16.00	\$ 1,600.00
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		249.96	TON	\$ 55.00	\$ 13,747.80
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 69,913.50
				25% Discount Applied	\$ 17,478.38
				Net Stage Total	\$ 52,435.13

(Print Name)
 Customer Rep:

E. Boone

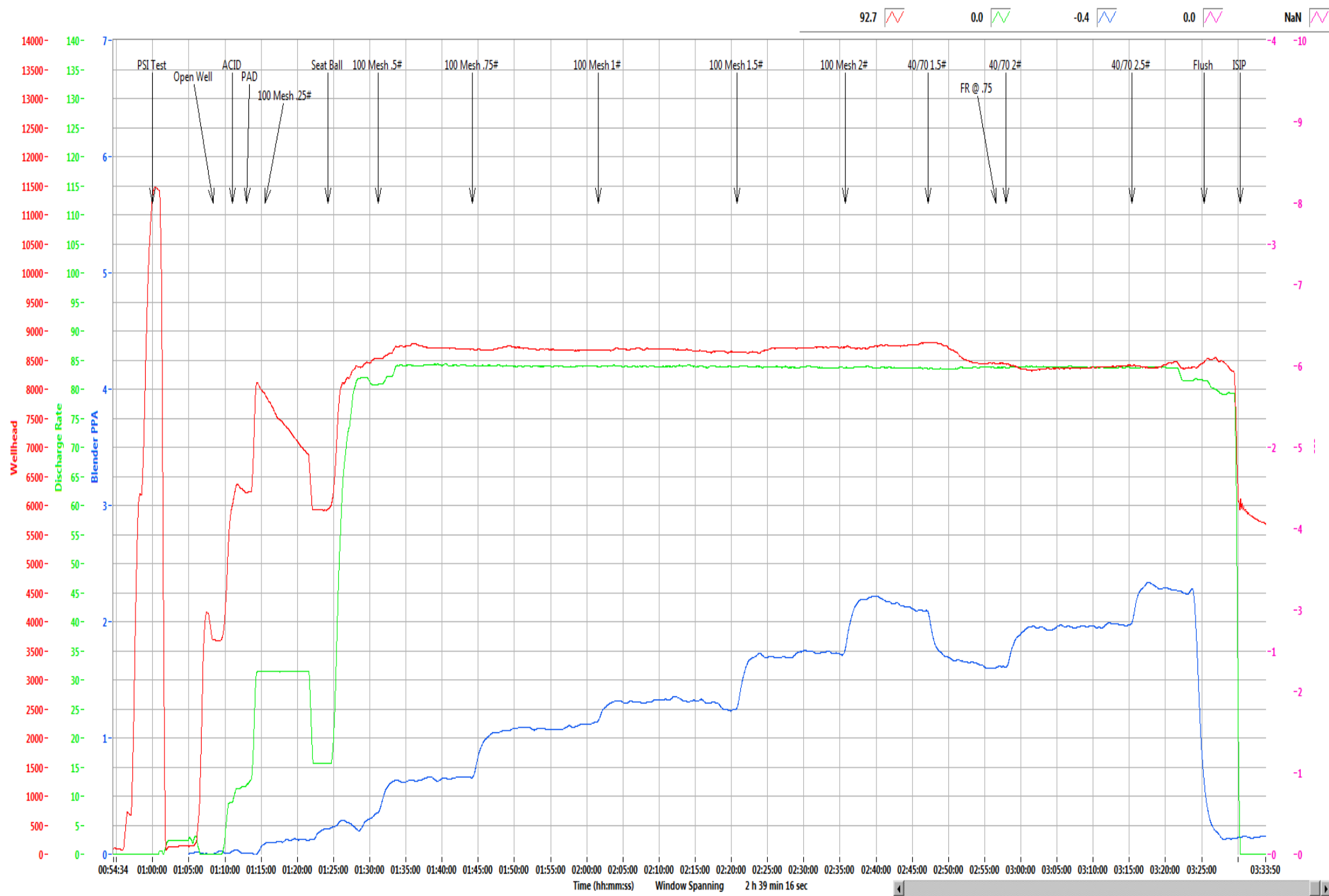
Customer Signature:

E. Boone

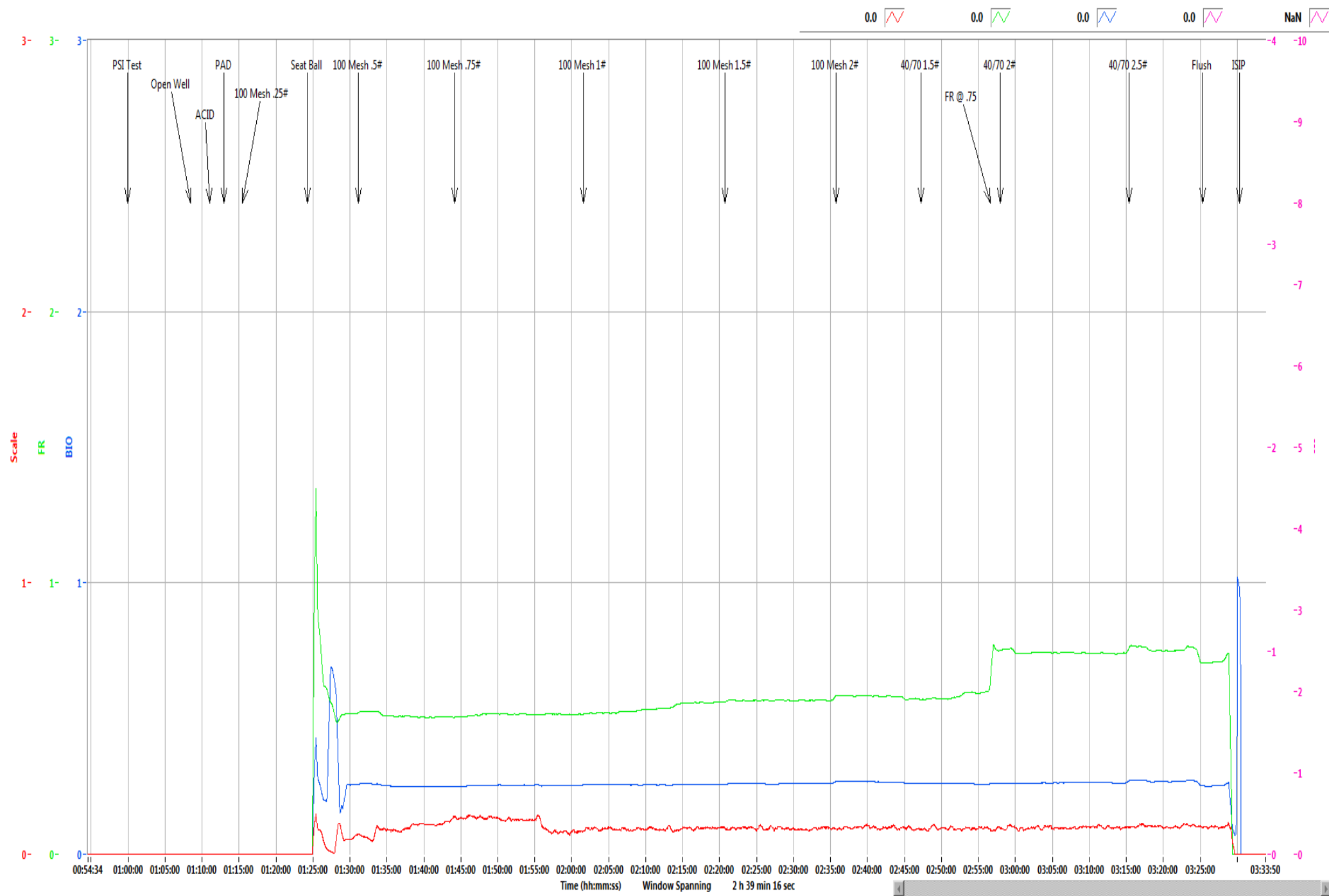


NNE
Boggess 17H
Stage 17
Producers Service Corp.

Post Stage Report
September 30, 2019



Refresh Graph



Refresh Graph

Boqgess Pad 17H

Stage	17
Date:	9/30/19
OWP (psi):	3,684
Starting Time	12:59 AM
Ending Time	3:30 AM
Pump Time (hr:min)	02:31
Swap Time (hr:min)	00:42
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,004
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,599
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,848
Displacement (psi)	8,494
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,645
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)	10,285
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	394
Pad (bbls)	65
Treatment (bbls)	9,848
Displacement (bbls)	355
(Acid Included) Total (bbls)	10,309
Dirty Job Total (bbls)	10,765
100 Mesh	300,080
40/70	199,440
Total Proppant (lbs)	499,520
Total Proppant %	99.9%

CHEMICALS

FR 9800	240
Biocide	108
Scale	23

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




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

Invoice #: 23129
 Date: 9/30/2019
 Well Name: Bogges 17H
 Stage No.: 17

State: WV
 County: Monongahela
 Operator: Jeremy T/Jeremy M
 PO/AFE: 100430

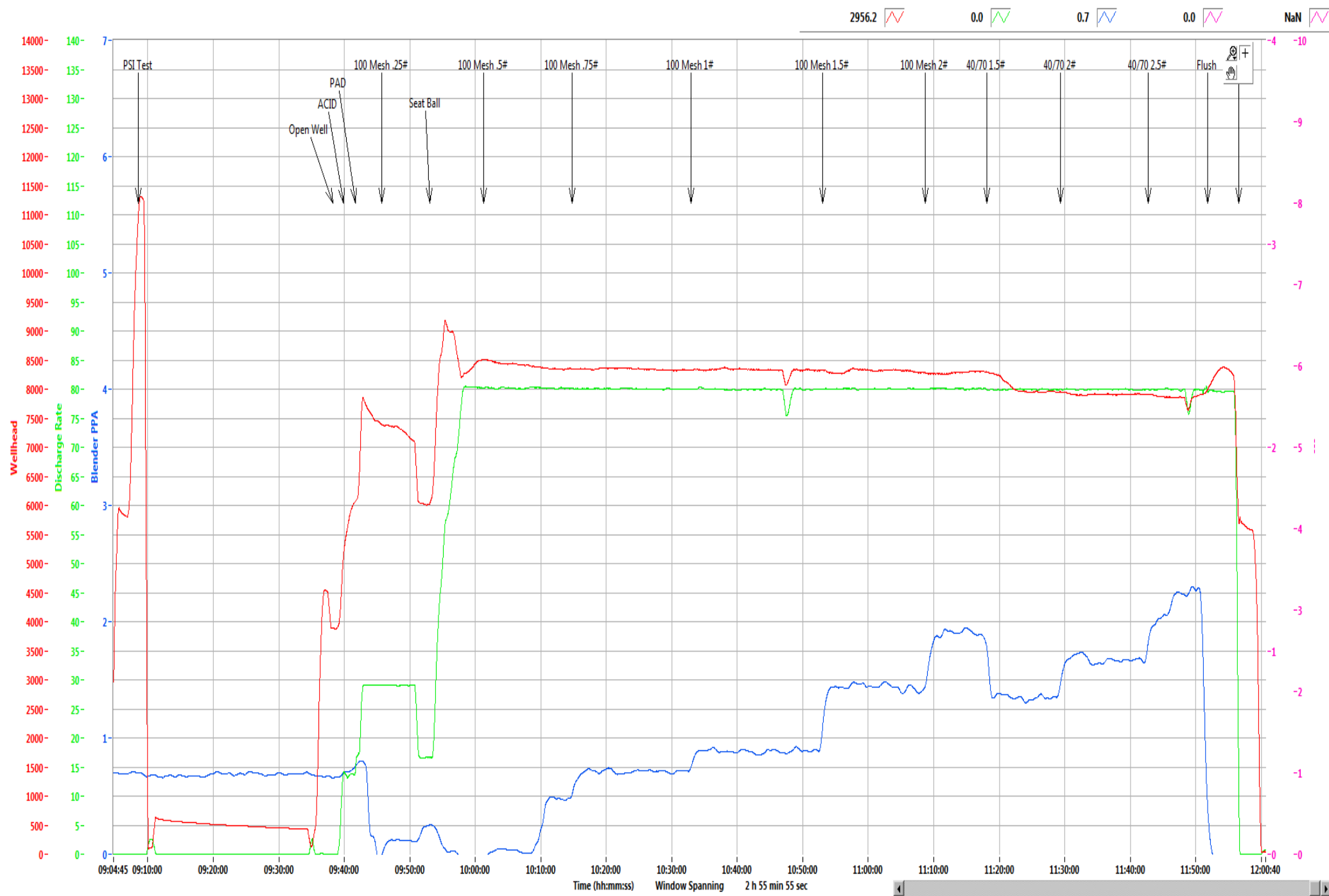
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,000.80	✓ CWT	\$ 5.50	\$ 16,504.40
SAND 40/70	40/70 white	1,994.40	✓ CWT	\$ 5.75	\$ 11,467.80
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	240	✓ GAL	\$ 17.75	\$ 4,260.00
BIOC11219A	Biocide @ 0.25 GPT	108	✓ GAL	\$ 16.00	\$ 1,728.00
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		249.76	TON	\$ 55.00	\$ 13,736.80
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 69,185.00
				25% Discount Applied	\$ 17,296.25
				Net Stage Total	\$ 51,888.75

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



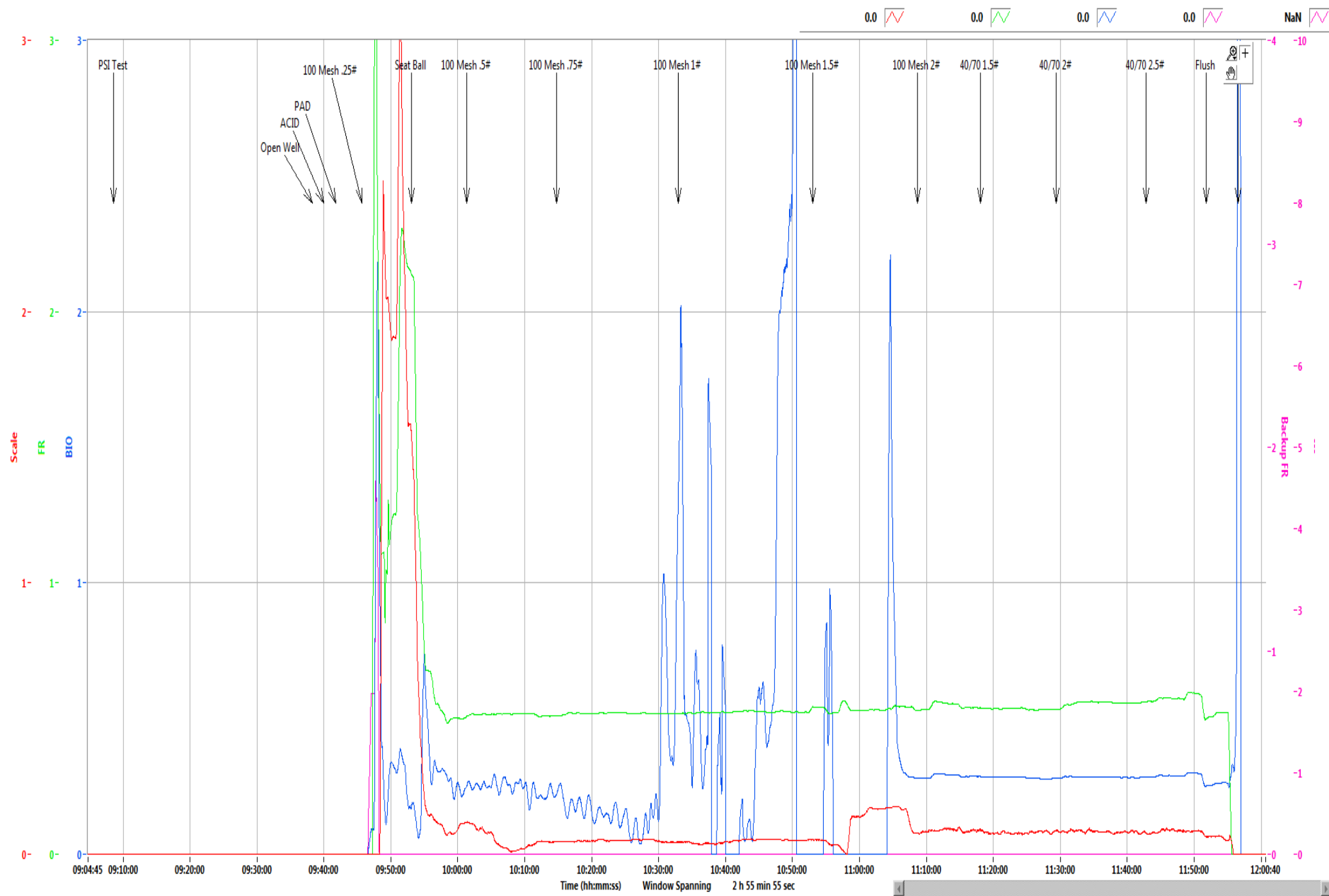
NNE
Boggess 17H
Stage 18
Producers Service Corp.

Post Stage Report
September 30, 2019



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Boggess Pad	17H
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Stage	18
Date:	9/30/19
OWP (psi):	3,882
Starting Time	9:38 AM
Ending Time	11:56 AM
Pump Time (hr:min)	02:18
Swap Time (hr:min)	02:57
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,218
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,244
Maximum Treating Rate (bbl/min)	81
Maximum Treating Pressure (psi)	9,286
Displacement (psi)	8,029
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,652
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)	9,632
Acid 7.5% HCL (gal)	1,000
Wireline Pump Down (bbls)	394
Pad (bbls)	110
Treatment (bbls)	9,194
Displacement (bbls)	346
(Acid Included) Total (bbls)	9,656
Dirty Job Total (bbls)	10,063
100 Mesh	299,780
40/70	199,220
Total Proppant (lbs)	499,000
Total Proppant %	99.8%

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 #: 23131
 Date: 9/30/2019
 Well Name: Bogges 17H
 Stage No.: 18

State: WV
 County: Monongahela
 Operator: Stetson/Joe/Austin
 PO/AFE: 100430

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	1000	GAL	\$ 1.25	\$ 1,250.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	2	GAL	\$ 35.00	\$ 70.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,997.80	CWT	\$ 5.50	\$ 16,487.90
SAND 40/70	40/70 white	1,992.20	CWT	\$ 5.75	\$ 11,455.15
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		249.5	TON	\$ 55.00	\$ 13,722.50
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
Total No Discount					\$ 68,593.05
25% Discount Applied					\$ 17,148.26
Net Stage Total					\$ 51,444.79

(Print Name) Rob Cowger
 Customer Rep: _____

Customer Signature: RA Cowger



NNE
Boggess 17H
Stage 19
Producers Service Corp.

Post Stage Report
September 30, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	19
Date:	9/30/19
OWP (psi):	3,404
Starting Time	7:09 PM
Ending Time	9:32 PM
Pump Time (hr:min)	02:23
Swap Time (hr:min)	04:09
Starting # Pumps	16
Finishing # Pumps	14
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,968
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,521
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,137
Displacement (psi)	8,812
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)	9,815
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	350
Pad (bbls)	75
Treatment (bbls)	9,409
Displacement (bbls)	343
(Acid Included) Total (bbls)	9,827
Dirty Job Total (bbls)	10,235
100 Mesh	300,180
40/70	197,540
Total Proppant (lbs)	497,720
Total Proppant %	99.5%

CHEMICALS

FR 9800	218
Biocide	103
Scale	21

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



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

Invoice #: 23133
 Date: 9/30/2019
 Well Name: Boguess 17H ✓
 Stage No.: 19 ✓

State: WV
 County: Monongahela
 Operator: Eck/Jeremy
 PO/AFE: 100430

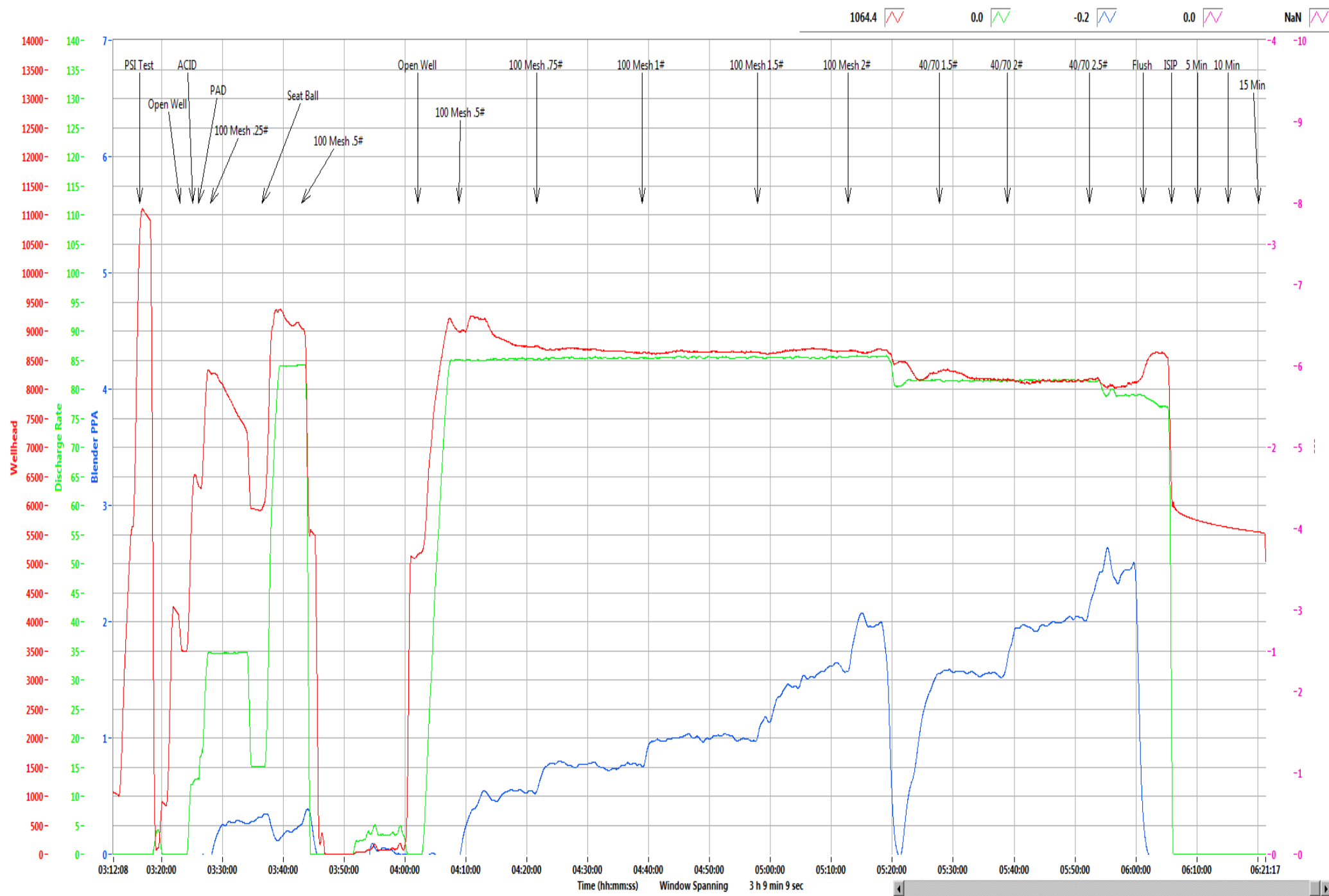
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,001.80	✓ CWT	\$ 5.50	\$ 16,509.90
SAND 40/70	40/70 white	1,975.40	✓ CWT	\$ 5.75	\$ 11,368.55
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	218	✓ GAL	\$ 17.75	\$ 3,869.50
BIOC11219A	Biocide @ 0.25 GPT	103	✓ GAL	\$ 16.00	\$ 1,648.00
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		248.86	TON	\$ 55.00	\$ 13,687.30
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,869.25
				25% Discount Applied	\$ 16,967.31
				Net Stage Total	\$ 50,901.94

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

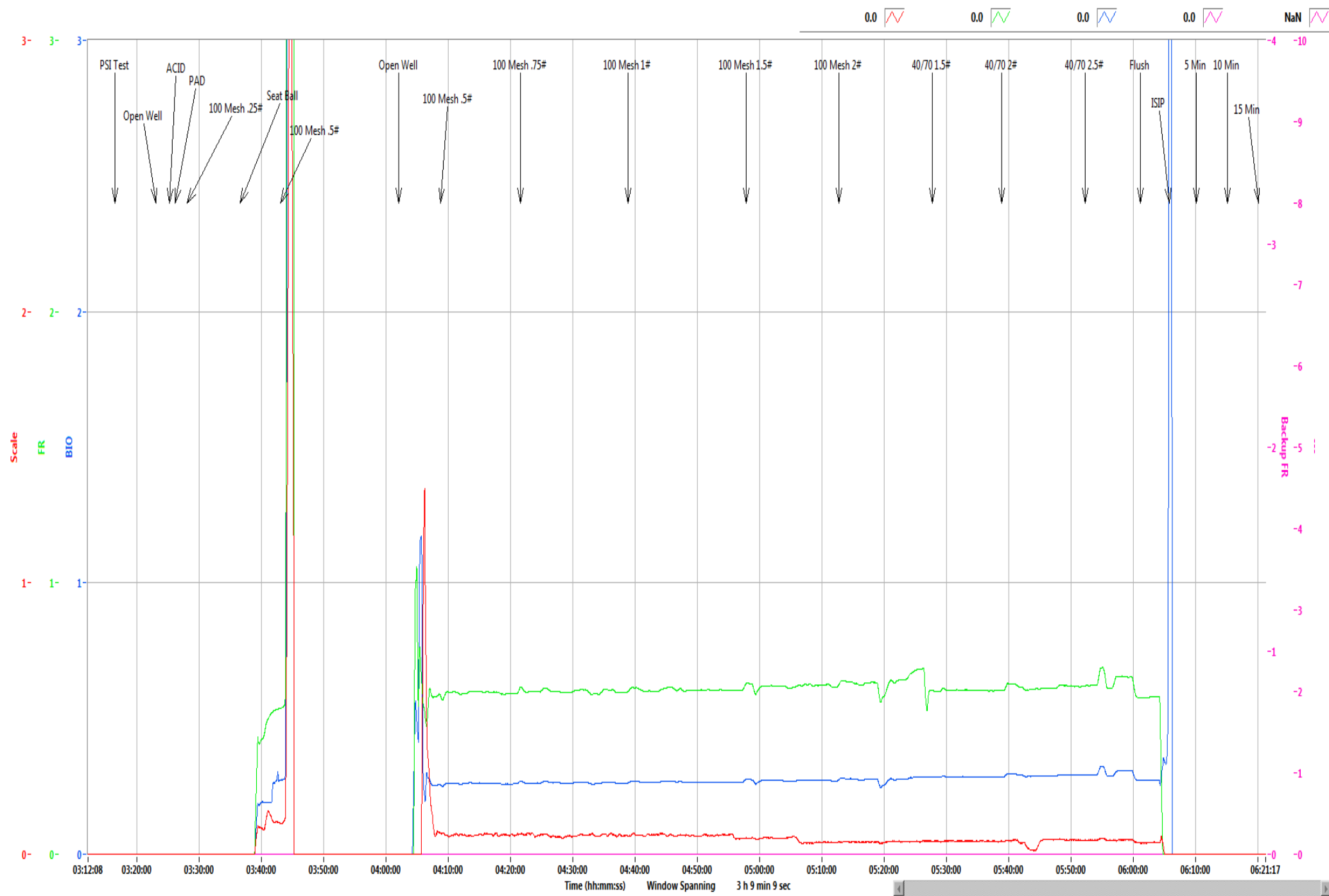


NNE
Boggess 17H
Stage 20
Producers Service Corp.

Post Stage Report
October 1, 2019



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Boggess Pad**17H**

Stage	20
Date:	10/1/19
OWP (psi):	3,507
Starting Time	3:23 AM
Ending Time	6:20 AM
Pump Time (hr:min)	02:57
Swap Time (hr:min)	01:24
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,058
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,529
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,531
Displacement (psi)	8,391
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,914
Final FG (psi/ft)	1.17
5 Minute Leakoff Pressure (psi)	5,733
5 Minute Leakoff Rate (psi/min)	36
10 Minute Leakoff Pressure (psi)	5,618
10 Minute Leakoff Rate (psi/min)	30
15 Minute Leakoff Pressure (psi)	5,540
15 Minute Leakoff Rate (psi/min)	25

Fluids & Proppant

Slickwater (bbls)	10,483
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	382
Pad (bbls)	59
Treatment (bbls)	10,070
Displacement (bbls)	338
(Acid Included) Total (bbls)	10,495
Dirty Job Total (bbls)	10,992
100 Mesh	302,700
40/70	196,340
Total Proppant (lbs)	499,040
Total Proppant %	99.8%

CHEMICALS

FR 9800	230
Biocide	123
Scale	28

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



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

Invoice #: 23135
Date: 10/1/2019
Well Name: Bogges 17H
Stage No.: 20

State: WV
County: Monongahela
Operator: Eck/Jeremy
PO/A/E: 100430

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	3,027.00	CWT	\$ 5.50	\$ 16,648.50
SAND 40/70	40/70 white	1,963.40	CWT	\$ 5.75	\$ 11,289.55
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	230	GAL	\$ 17.75	\$ 4,082.50
BIOC11219A	Biocide @ 0.25 GPT	123	GAL	\$ 16.00	\$ 1,968.00
SCAL16846A	Scale Control @ 0.05 GPT	28	GAL	\$ 16.00	\$ 448.00
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		249.52	TON	\$ 55.00	\$ 13,723.60
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,620.15
				25% Discount Applied	\$ 17,155.04
				Net Stage Total	\$ 51,465.11

(Print Name)

Customer Rep: Rob Casper

Customer Signature: [Signature]

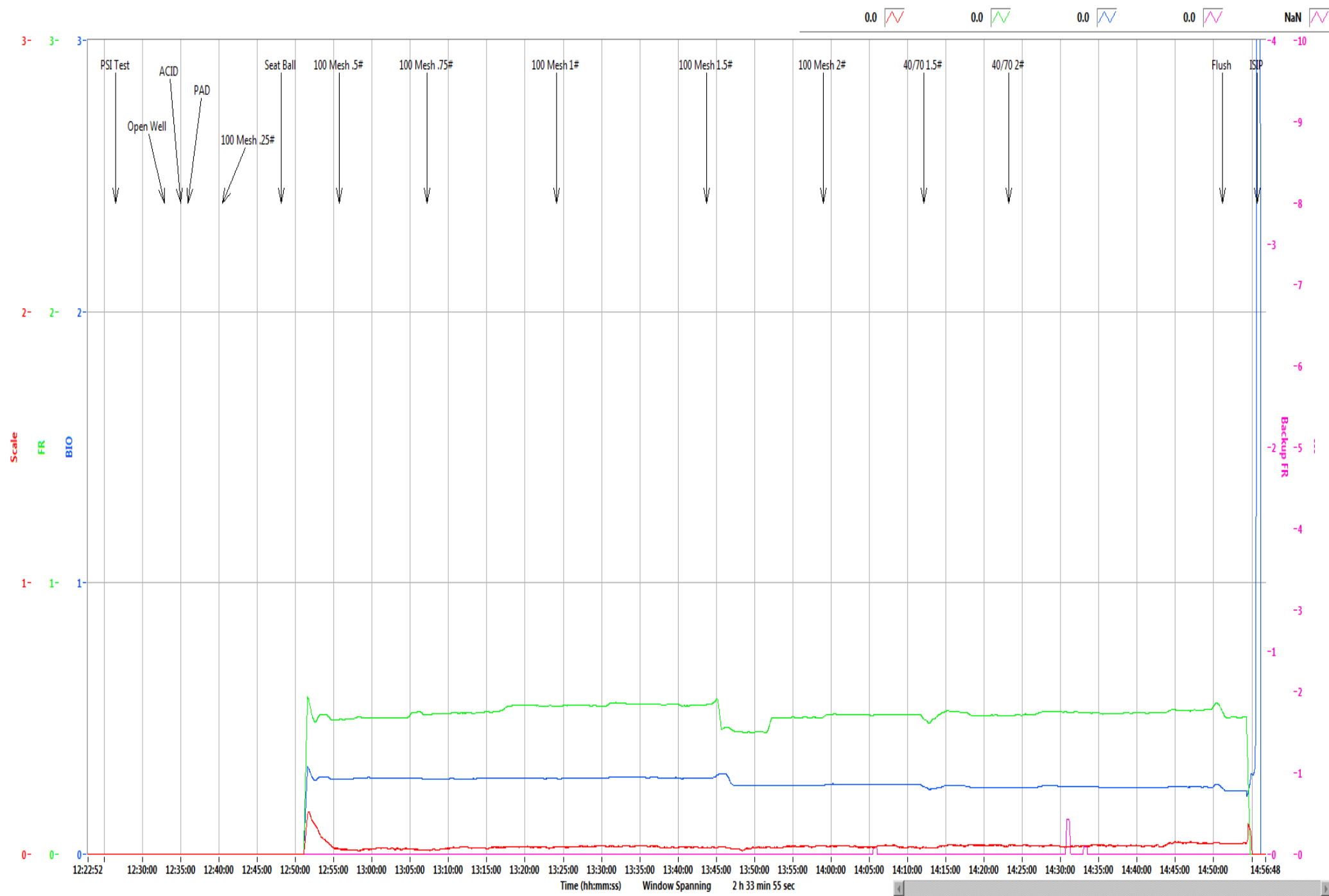


NNE
Boggess 17H
Stage 21
Producers Service Corp.

Post Stage Report
October 1, 2019



Refresh Graph



Refresh Graph

Boggess Pad	17H
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Stage	21
Date:	10/1/19
OWP (psi):	3,835
Starting Time	12:32 PM
Ending Time	2:55 PM
Pump Time (hr:min)	02:23
Swap Time (hr:min)	02:01
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,760
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,261
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,826
Displacement (psi)	8,503
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	6,514
Final FG (psi/ft)	1.25
5 Minute Leakoff Pressure (psi)	
5 Minute Leakoff Rate (psi/min)	
10 Minute Leakoff Pressure (psi)	
10 Minute Leakoff Rate (psi/min)	
15 Minute Leakoff Pressure (psi)	
15 Minute Leakoff Rate (psi/min)	

Fluids & Proppant

Slickwater (bbls)	10,188
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	341
Pad (bbls)	129
Treatment (bbls)	9,728
Displacement (bbls)	337
(Acid Included) Total (bbls)	10,200
Dirty Job Total (bbls)	10,658
100 Mesh	300,940
40/70	198,360
Total Proppant (lbs)	499,300
Total Proppant %	99.9%

CHEMICALS

FR 9800	223
Biocide	127
Scale	24

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



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

Invoice #: 23137
Date: 10/1/2019
Well Name: Boggess 17H
Stage No.: 21

State: WV
County: Monongahela
Operator: Stetson/Joe
PO/AFE: 100430

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	3,009.40	CWT	\$ 5.50	\$ 16,551.70
SAND 40/70	40/70 white	1,983.60	CWT	\$ 6.75	\$ 11,405.70
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	223	GAL	\$ 17.75	\$ 3,958.25
BIOC 11219A	Biocide @ 0.25 GPT	127	GAL	\$ 16.00	\$ 2,032.00
SCAL 16846A	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 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		249.65	TON	\$ 55.00	\$ 13,730.75
DIESEL FUEL	Not eligible for discount	0	GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,522.40
				25% Discount Applied	\$ 17,130.60
				Net Stage Total	\$ 51,391.80

(Print Name)

Customer Rep:

Rob Cowger

Customer Signature:

Rob Cowger

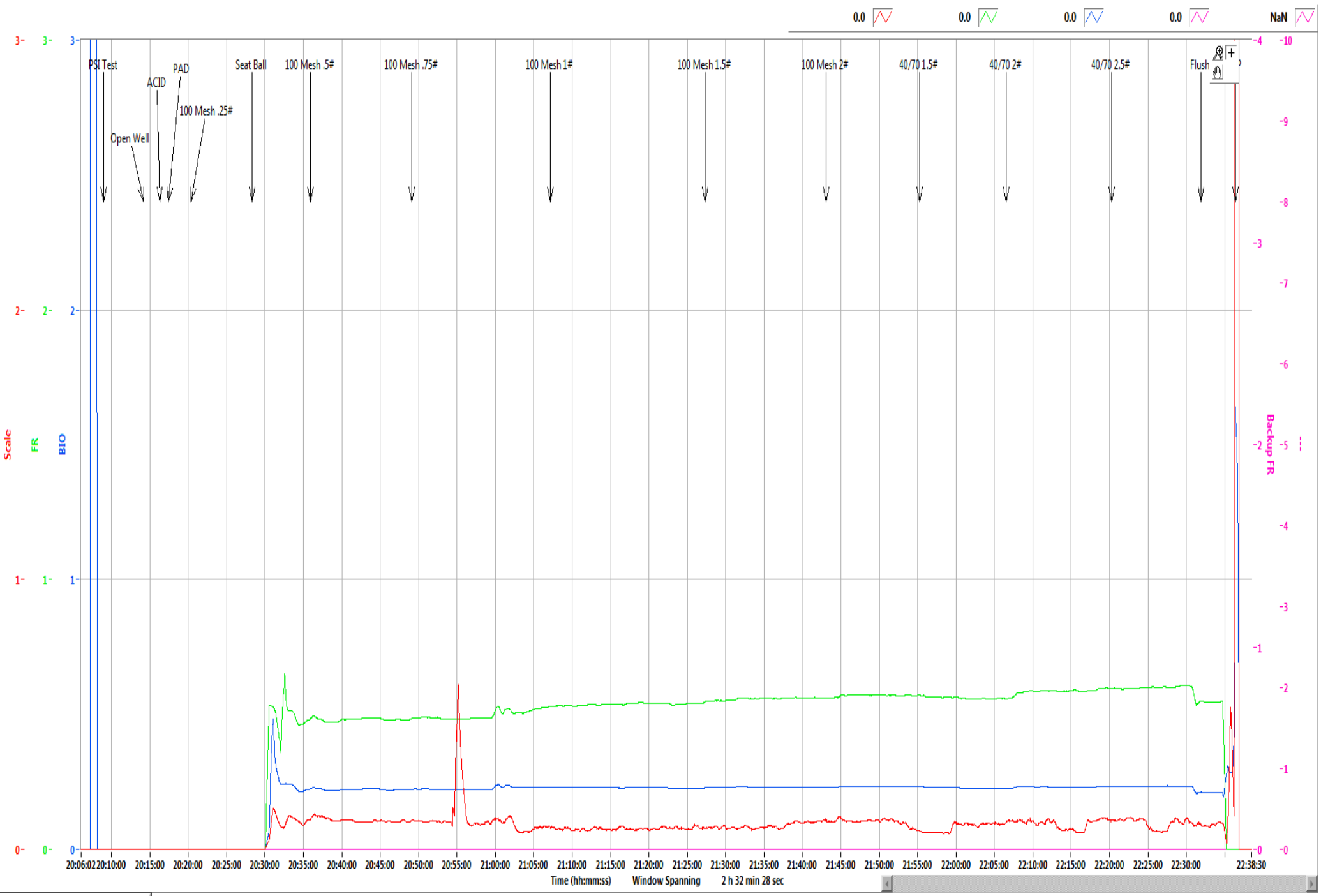


NNE
Boggess 17H
Stage 22
Producers Service Corp.

Post Stage Report
October 1, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	22
Date:	10/1/19
OWP (psi):	4,138
Starting Time	8:14 PM
Ending Time	10:36 PM
Pump Time (hr:min)	02:22
Swap Time (hr:min)	01:07
Starting # Pumps	17
Finishing # Pumps	14
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,953
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	7,977
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	8,243
Displacement (psi)	8,041
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,797
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)	10,005
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	332
Pad (bbls)	80
Treatment (bbls)	9,596
Displacement (bbls)	335
(Acid Included) Total (bbls)	10,017
Dirty Job Total (bbls)	10,492
100 Mesh	303,060
40/70	200,540
Total Proppant (lbs)	503,600
Total Proppant %	100.7%

CHEMICALS

FR 9800	209
Biocide	104
Scale	22

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



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

Invoice #: 23139
Date: 10/1/2019
Well Name: Boggess 17H ✓
Stage No.: 22 ✓

State: WV
County: Monongahela
Operator: Eck/Tilton
PO/AFE: 100430

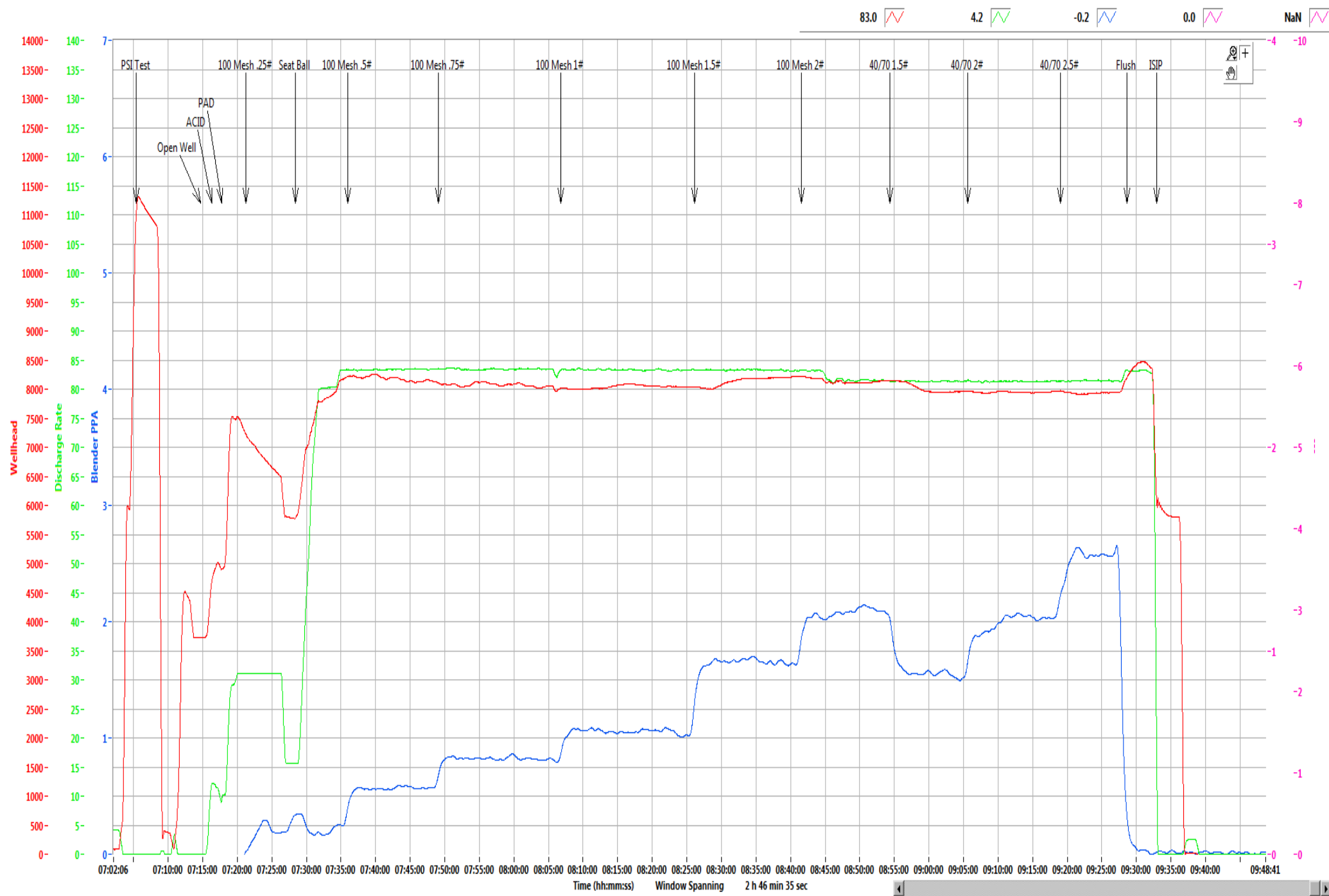
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	500	GAL	\$ 1.25	\$ 625.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	1	GAL	\$ 35.00	\$ 35.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	3,030.60	✓ CWT	\$ 5.50	\$ 16,668.30
SAND 40/70	40/70 white	2,005.40	✓ CWT	\$ 5.75	\$ 11,531.05
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	209	✓ GAL	\$ 17.75	\$ 3,709.75
BIOC11219A	Biocide @ 0.25 GPT	104	✓ GAL	\$ 16.00	\$ 1,664.00
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		251.8	TON	\$ 55.00	\$ 13,849.00
DIESEL FUEL	Not eligible for discount	130	GAL	\$ 3.04	\$ 395.20
				Total No Discount	\$ 68,234.10
				25% Discount Applied	\$ 17,058.53
				Net Stage Total	\$ 51,570.78

(Print Name) MIKE Inmay Customer Rep: _____
Customer Signature: 

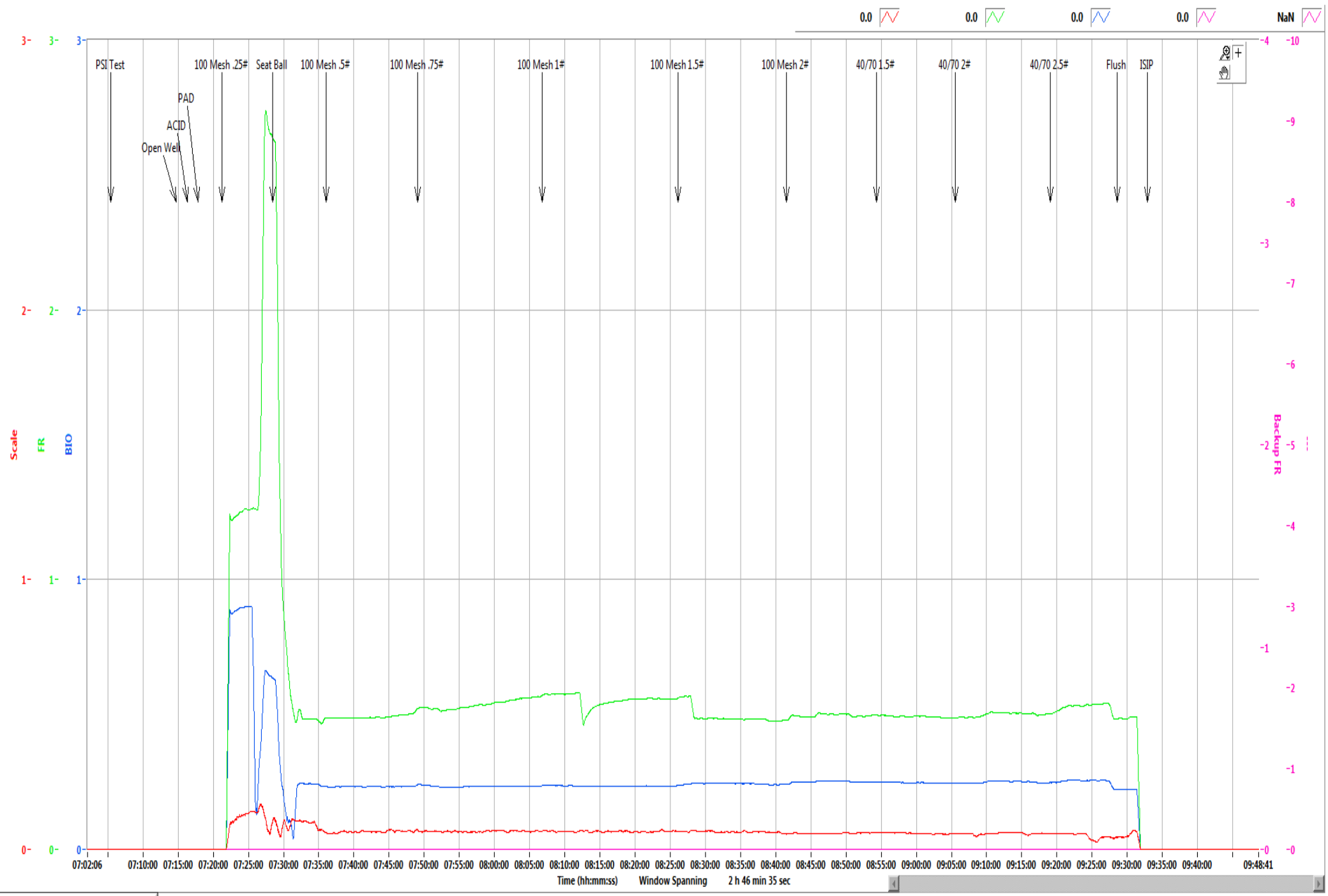


NNE
Boggess 17H
Stage 23
Producers Service Corp.

Post Stage Report
October 2, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	23
Date:	10/2/19
OWP (psi):	3,720
Starting Time	7:14 AM
Ending Time	9:32 AM
Pump Time (hr:min)	02:18
Swap Time (hr:min)	02:42
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,872
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,060
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,498
Displacement (psi)	8,189
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,915
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)	9,878
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	332
Pad (bbls)	87
Treatment (bbls)	9,469
Displacement (bbls)	327
(Acid Included) Total (bbls)	9,890
Dirty Job Total (bbls)	10,448
100 Mesh	301,760
40/70	200,300
Total Proppant (lbs)	502,060
Total Proppant %	100.4%

CHEMICALS

FR 9800	210
Biocide	102
Scale	23

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



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

Invoice #: 23141
 Date: 10/2/2019
 Well Name: Boguess 17H
 Stage No.: 23

State: WV
 County: Monongahela
 Operator: Stetson/Joe
 PO/AFE: 100430

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	3,017.60	CWT	\$ 5.50	\$ 16,596.80
SAND 40/70	40/70 white	2,003.00	CWT	\$ 5.75	\$ 11,517.25
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	210	GAL	\$ 17.75	\$ 3,727.50
BIOC11219A	Biocide @ 0.25 GPT	102	GAL	\$ 16.00	\$ 1,632.00
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		251.03	TON	\$ 55.00	\$ 13,806.65
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,108.20
				25% Discount Applied	\$ 17,027.05
				Net Stage Total	\$ 51,081.15

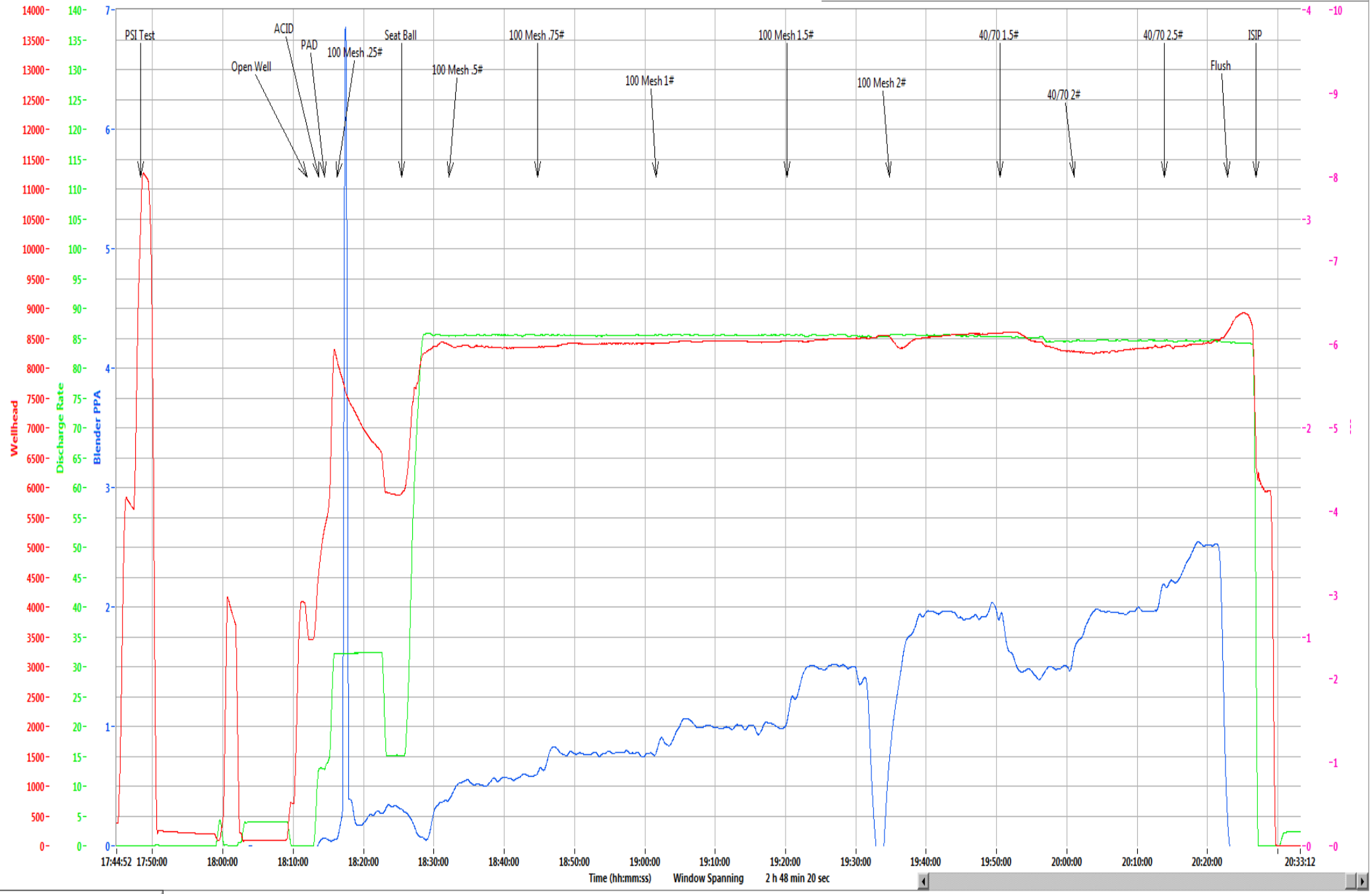
(Print Name) Rob Cowger Customer Signature: [Signature]



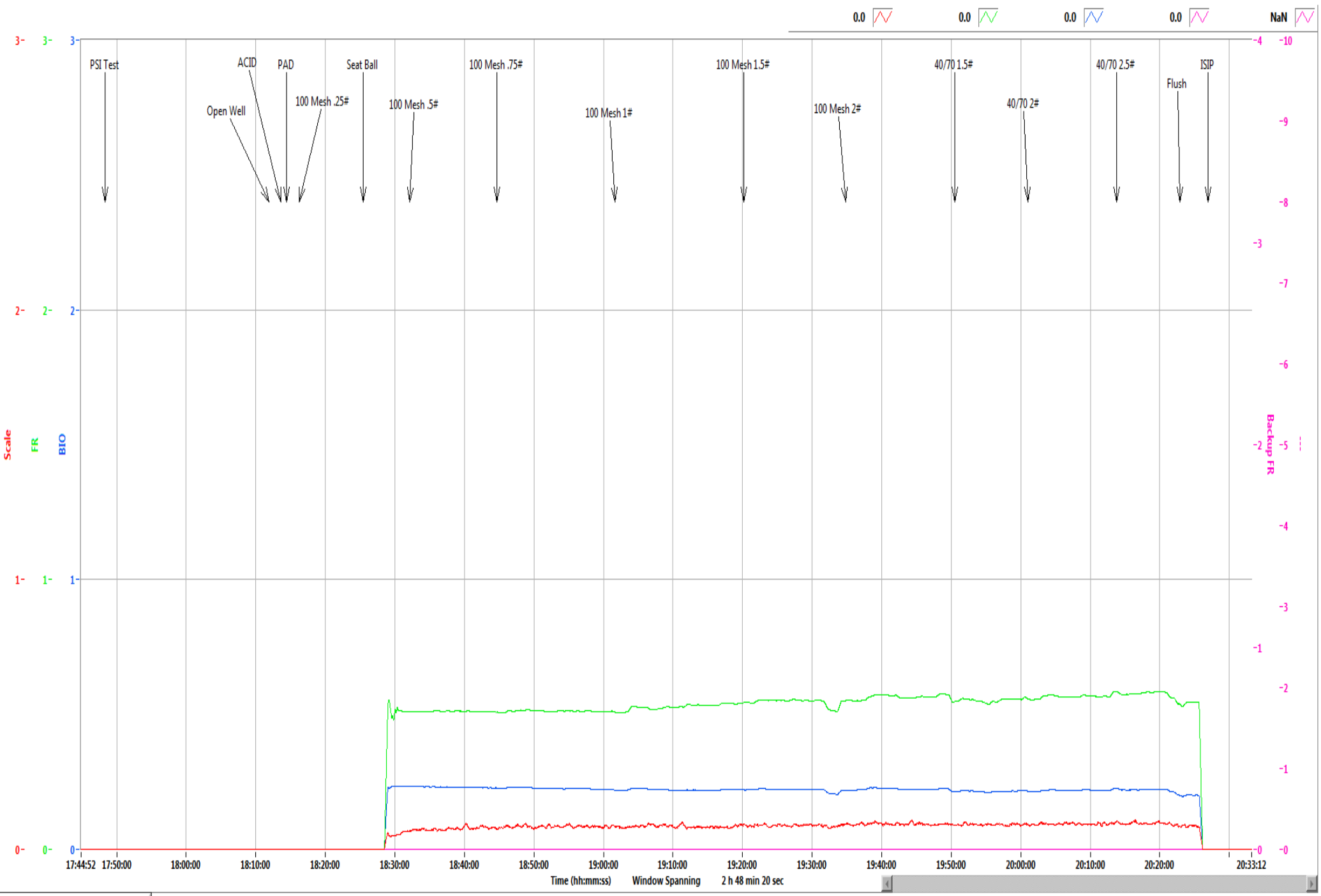
NNE
Boggess 17H
Stage 24
Producers Service Corp.

Post Stage Report
October 2, 2019

390.6 0.0 -0.0 0.0 NaN



Refresh Graph



Refresh Graph

Boggess Pad	17H
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Stage	24
Date:	10/2/19
OWP (psi):	3,470
Starting Time	6:11 PM
Ending Time	8:26 PM
Pump Time (hr:min)	02:15
Swap Time (hr:min)	04:05
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,956
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,430
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,643
Displacement (psi)	8,665
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,767
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)	10,145
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	342
Pad (bbls)	41
Treatment (bbls)	9,789
Displacement (bbls)	326
(Acid Included) Total (bbls)	10,157
Dirty Job Total (bbls)	10,608
100 Mesh	306,660
40/70	201,500
Total Proppant (lbs)	508,160
Total Proppant %	101.6%

CHEMICALS

FR 9800	213
Biocide	107
Scale	21

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



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

Invoice #: 23143
Date: 10/2/2019
Well Name: Bogges 17H
Stage No.: 24

State: WV
County: Monongahela
Operator: Stetson/Joe
PO/AFE: 100430

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	3,066.60	CWT	\$ 5.50	\$ 16,866.30
SAND 40/70	40/70 white	2,015.00	CWT	\$ 5.75	\$ 11,586.25
SlmSTREAM FR 9800	Friction Reducer @ 0.5 GPT	213	GAL	\$ 17.75	\$ 3,780.75
BIOC11219A	Biocide @ 0.25 GPT	107	GAL	\$ 16.00	\$ 1,712.00
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		254.08	TON	\$ 55.00	\$ 13,974.40
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,715.70
				25% Discount Applied	\$ 17,178.93
				Net Stage Total	\$ 51,536.78

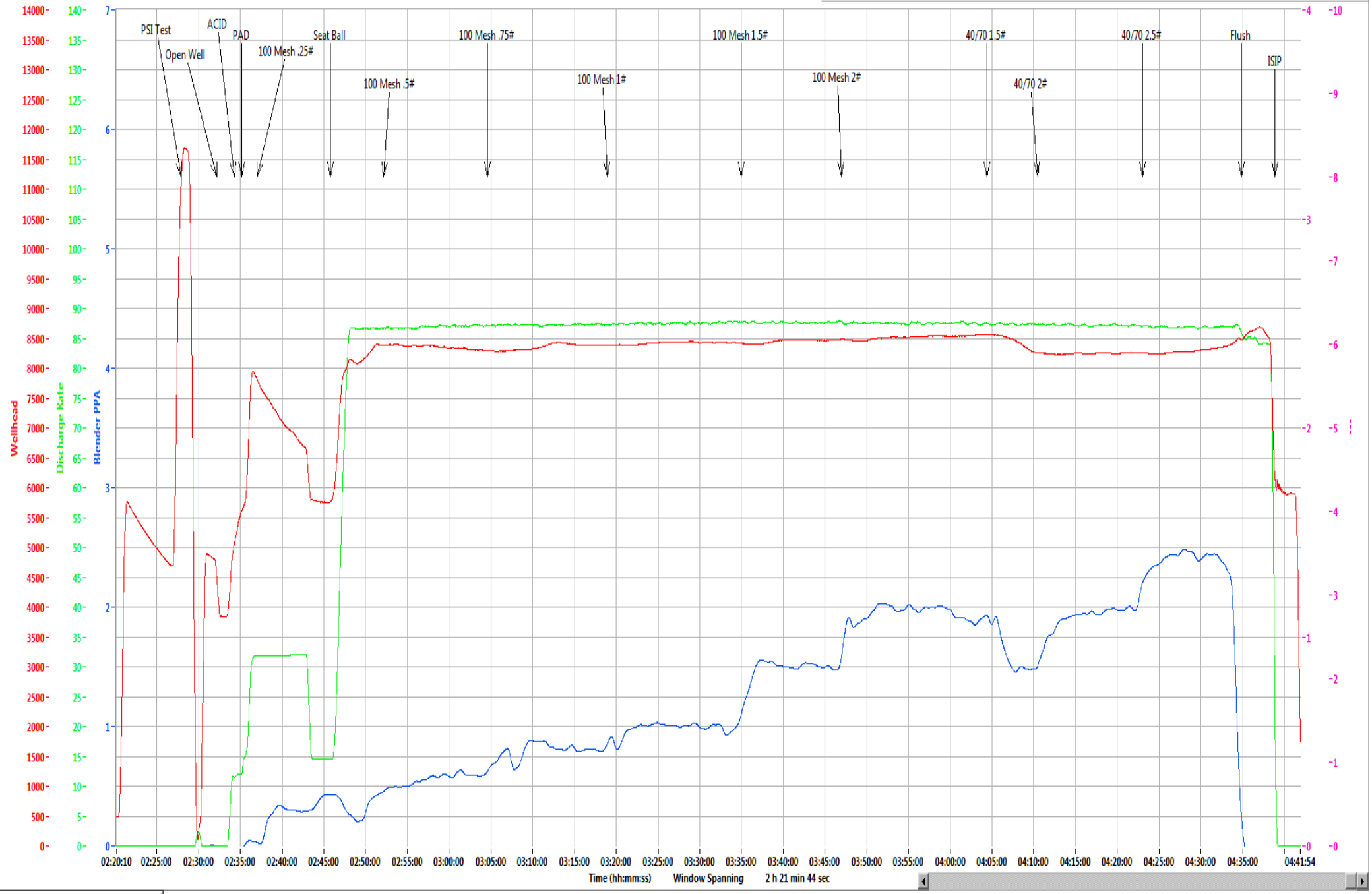
(Print Name) Customer Rep: Mike Inman Customer Signature: 



NNE
Boggess 17H
Stage 25
Producers Service Corp.

Post Stage Report
October 3, 2019

490.7 0.0 -0.0 0.0 NaN



Time (hh:mm:ss) Window Spanning 2 h 21 min 44 sec

Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	25
Date:	10/3/19
OWP (psi):	3,866
Starting Time	2:32 AM
Ending Time	4:38 AM
Pump Time (hr:min)	02:06
Swap Time (hr:min)	03:10
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,893
Average Treating Rate (bbl/min)	87
Average Treating Pressure (psi)	8,383
Maximum Treating Rate (bbl/min)	88
Maximum Treating Pressure (psi)	8,614
Displacement (psi)	8,457
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,600
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)	9,581
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	341
Pad (bbls)	50
Treatment (bbls)	9,221
Displacement (bbls)	321
(Acid Included) Total (bbls)	9,593
Dirty Job Total (bbls)	10,050
100 Mesh	298,380
40/70	201,600
Total Proppant (lbs)	499,980
Total Proppant %	100.0%

CHEMICALS

FR 9800	201
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 #: 23145
 Date: 10/3/2019
 Well Name: Bogges 17H
 Stage No.: 25

State: WV
 County: Monongahela
 Operator: Eck/Tilton
 PO/AFE: 100430

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	2,983.80	CWT	\$ 5.50	\$ 16,410.90
SAND 40/70	40/70 white	2,016.00	CWT	\$ 5.75	\$ 11,592.00
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	201	GAL	\$ 17.75	\$ 3,567.75
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		249.99	TON	\$ 55.00	\$ 13,749.45
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,700.10
				25% Discount Applied	\$ 16,925.03
				Net Stage Total	\$ 50,775.08

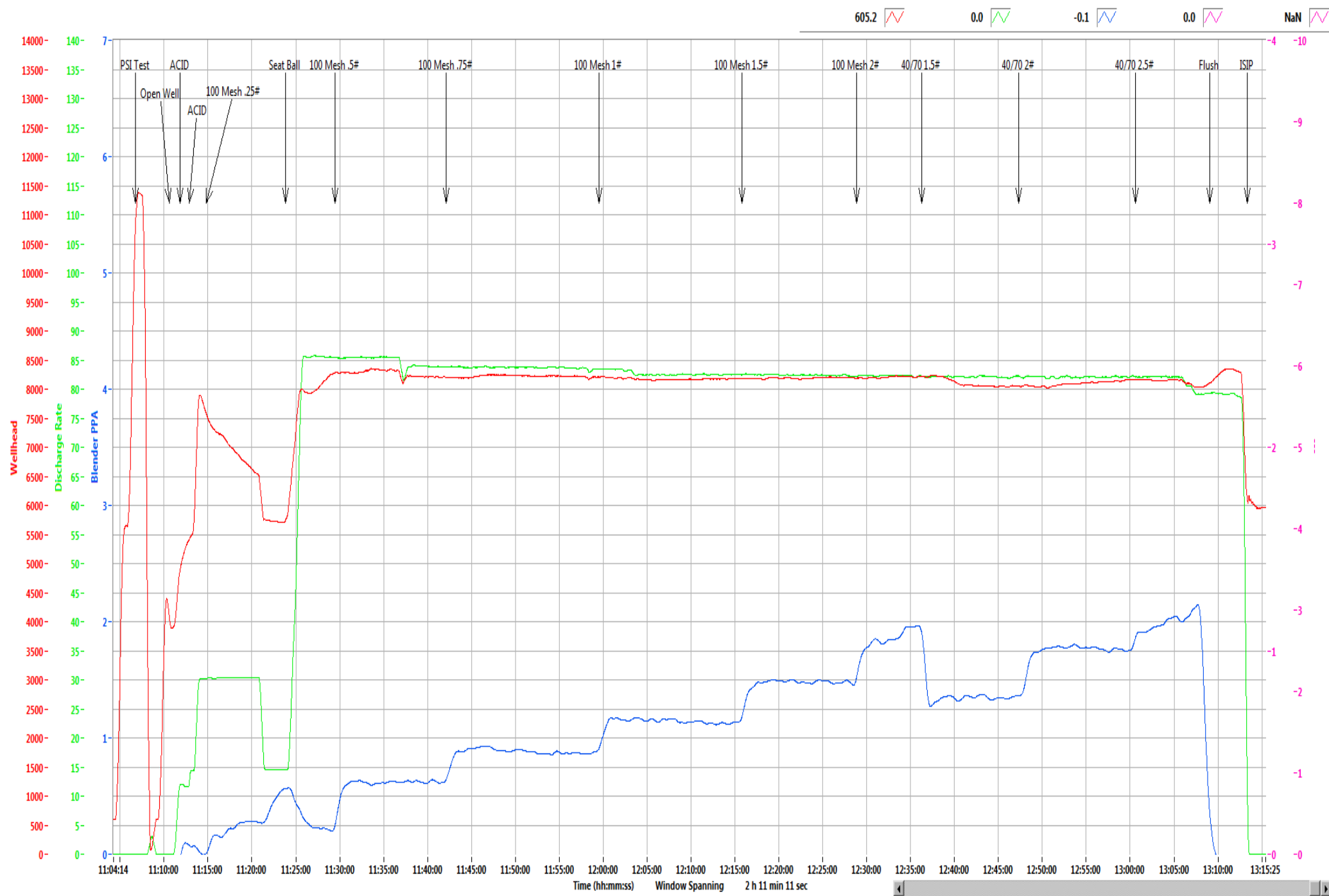
(Print Name) Customer Rep: Mike Inman

Customer Signature: _____

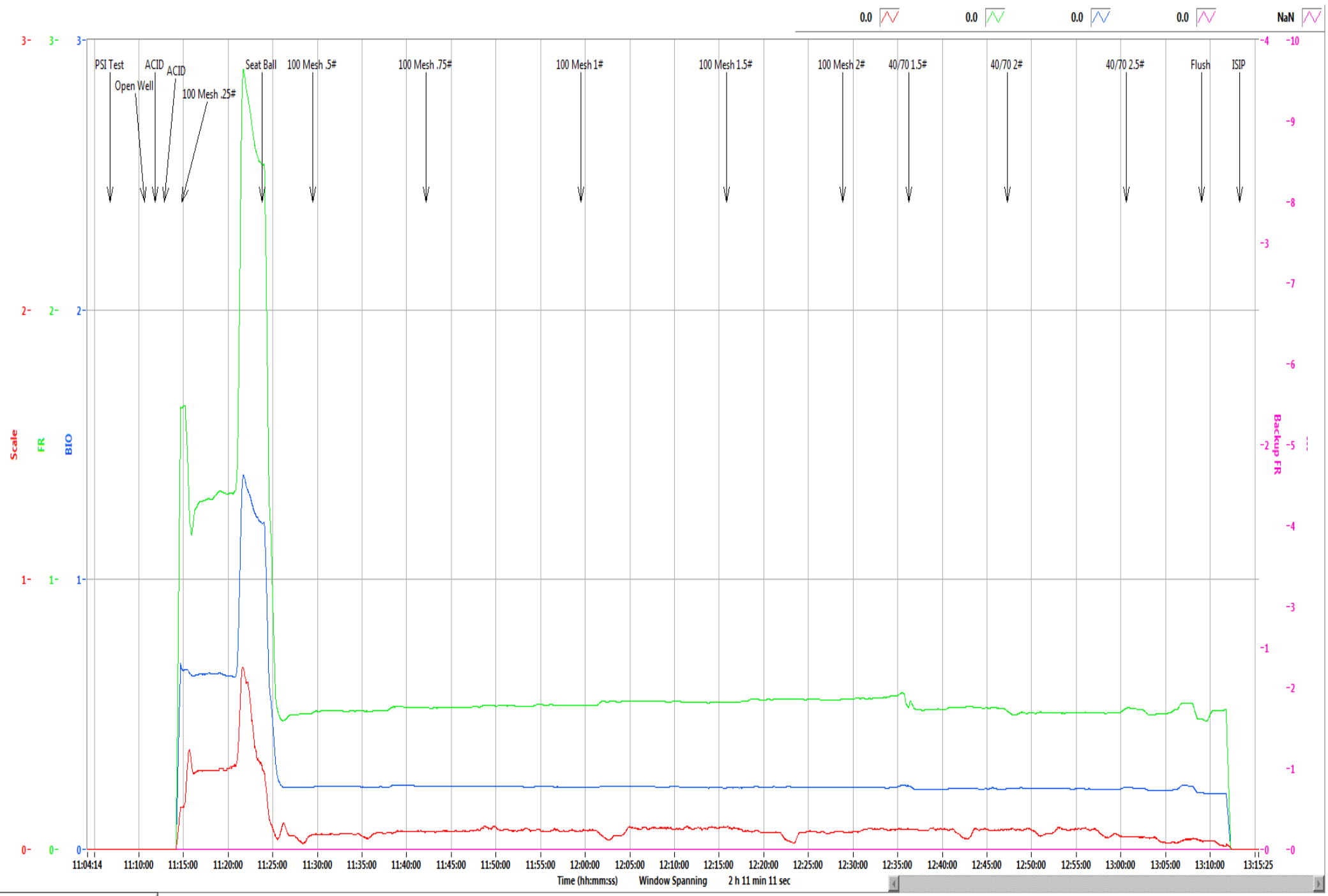


NNE
Boggess 17H
Stage 26
Producers Service Corp.

Post Stage Report
October 3, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	26
Date:	10/3/19
OWP (psi):	3,887
Starting Time	11:06 AM
Ending Time	1:13 PM
Pump Time (hr:min)	02:07
Swap Time (hr:min)	03:10
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	5,950
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,173
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,410
Displacement (psi)	8,113
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,201
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)	8,835
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	315
Pad (bbls)	50
Treatment (bbls)	8,463
Displacement (bbls)	308
(Acid Included) Total (bbls)	8,847
Dirty Job Total (bbls)	9,260
100 Mesh	300,320
40/70	200,420
Total Proppant (lbs)	500,740
Total Proppant %	100.1%

CHEMICALS

FR 9800	188
Biocide	94
Scale	20

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



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

Invoice #: 23147
Date: 10/3/2019
Well Name: Bogges 17H
Stage No.: 26

State: WV
County: Monongahela
Operator: Stetson/Jeremy M
PO/AFE: 100430

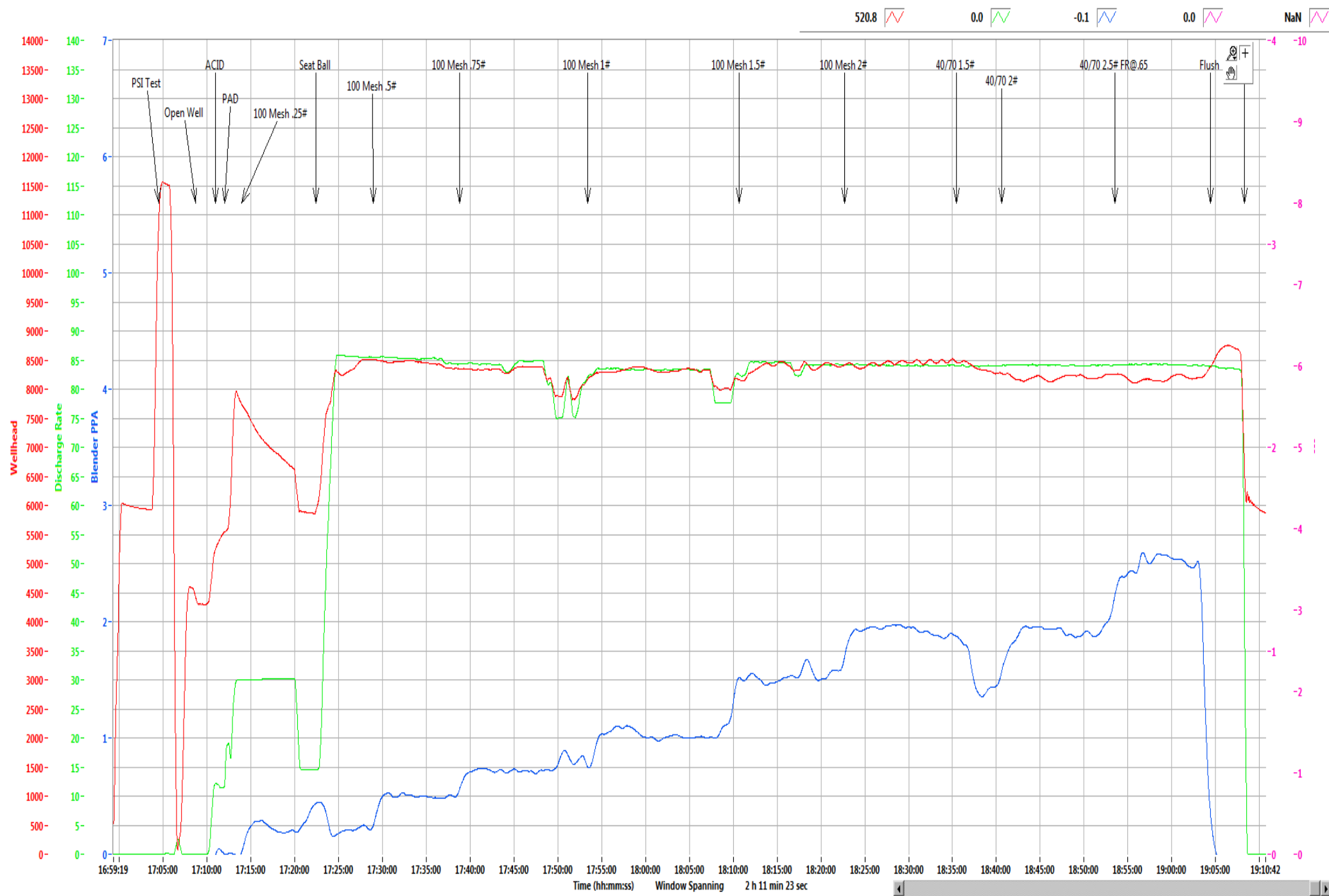
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,003.20	CWT	\$ 5.50	\$ 16,517.60
SAND 40/70	40/70 white	2,004.20	CWT	\$ 5.75	\$ 11,524.15
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	188	GAL	\$ 17.75	\$ 3,337.00
BIOC11219A	Biocide @ 0.25 GPT	94	GAL	\$ 16.00	\$ 1,504.00
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		250.37	TON	\$ 55.00	\$ 13,770.35
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
Total No Discount					\$ 67,433.10
25% Discount Applied					\$ 16,858.28
Net Stage Total					\$ 50,574.83

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



NNE
Boggess 17H
Stage 27
Producers Service Corp.

Post Stage Report
October 3, 2019



520.8 0.0 -0.1 0.0 NaN

Time (hh:mm:ss) Window Spanning 2 h 11 min 23 sec

Refresh Graph



Boggess Pad	17H
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Stage	27
Date:	10/3/19
OWP (psi):	4,305
Starting Time	5:04 PM
Ending Time	7:08 PM
Pump Time (hr:min)	02:04
Swap Time (hr:min)	00:34
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,166
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,311
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,570
Displacement (psi)	8,429
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,930
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)	8,631
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	295
Pad (bbls)	48
Treatment (bbls)	8,264
Displacement (bbls)	304
(Acid Included) Total (bbls)	8,643
Dirty Job Total (bbls)	9,089
100 Mesh	301,320
40/70	199,560
Total Proppant (lbs)	500,880
Total Proppant %	100.2%

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 #: 23149
Date: 10/3/2019
Well Name: Bogges 17H
Stage No.: 27

State: WV
County: Monongahela
Operator: Jamie/Brad
PO/AFE: 100430

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	3,013.20	CWT	\$ 5.50	\$ 16,572.60
SAND 40/70	40/70 white	1,995.60	CWT	\$ 5.75	\$ 11,474.70
StimSTREAM 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		250.44	TON	\$ 55.00	\$ 13,774.20
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,382.00
				25% Discount Applied	\$ 16,845.50
				Net Stage Total	\$ 50,536.50

(Print Name) Customer Rep: MIKE JAMES

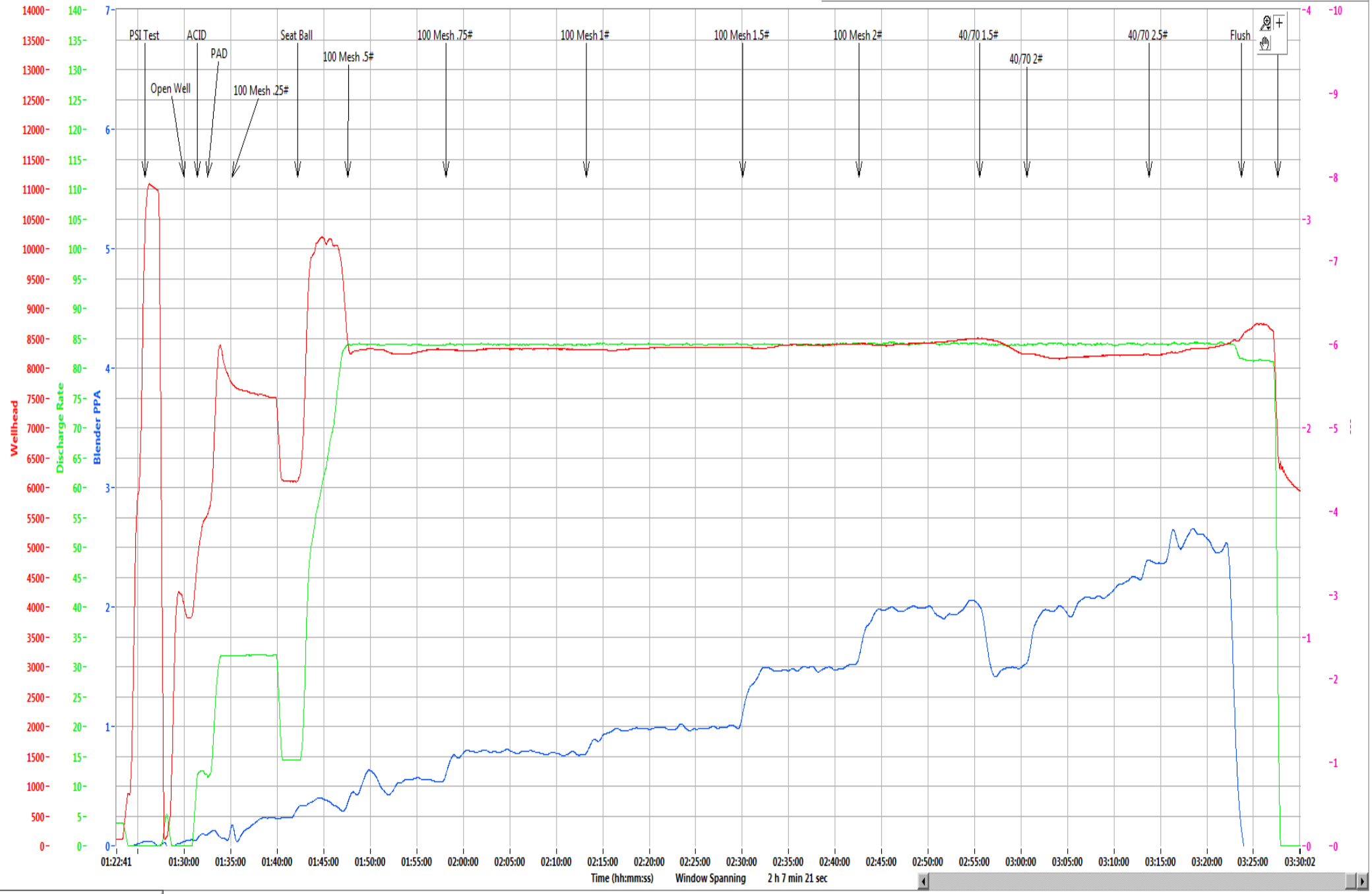
Customer Signature: 



NNE
Boggess 17H
Stage 28
Producers Service Corp.

Post Stage Report
October 4, 2019

116.1 3.8 -0.4 0.0 NaN



Refresh Graph



Refresh Graph

Bogges Pad	17H
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Stage	28
Date:	10/4/19
OWP (psi):	3,823
Starting Time	1:29 AM
Ending Time	3:27 AM
Pump Time (hr:min)	01:58
Swap Time (hr:min)	01:13
Starting # Pumps	15
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,350
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,323
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	10,302
Displacement (psi)	8,560
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,093
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)	8,531
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	330
Pad (bbls)	101
Treatment (bbls)	8,136
Displacement (bbls)	301
(Acid Included) Total (bbls)	8,543
Dirty Job Total (bbls)	8,973
100 Mesh	302,540
40/70	200,080
Total Proppant (lbs)	502,620
Total Proppant %	100.5%

CHEMICALS

FR 9800	177
Biocide	89
Scale	18

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



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

Invoice #: A
 Date: 10/4/2019
 Well Name: Bogges 17H
 Stage No.: 28

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100430

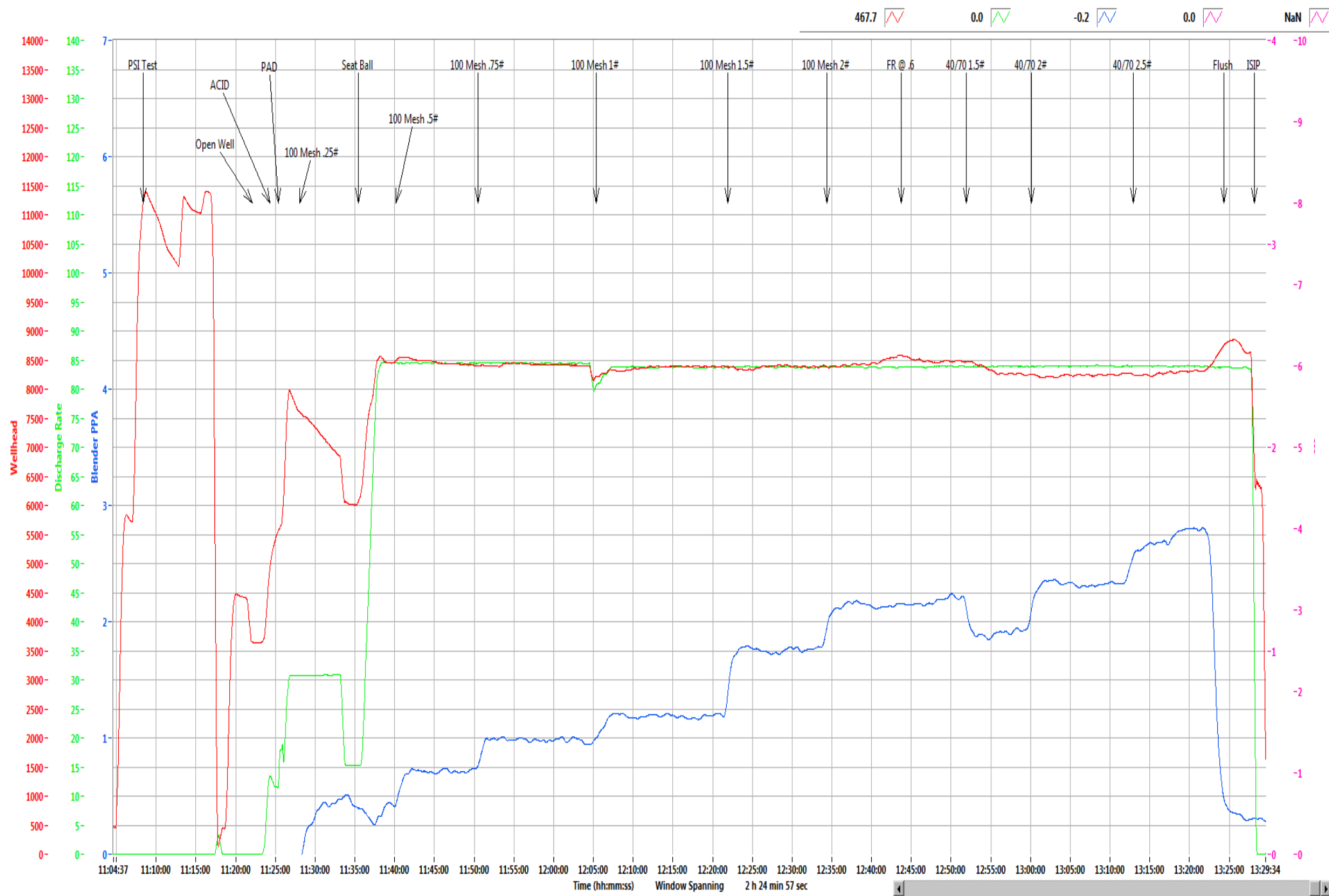
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,025.40	CWT	\$ 5.50	\$ 16,639.70
SAND 40/70	40/70 white	2,000.80	CWT	\$ 5.75	\$ 11,504.60
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	177	GAL	\$ 17.75	\$ 3,141.75
BIOC11219A	Biocide @ 0.25 GPT	89	GAL	\$ 16.00	\$ 1,424.00
SCAL16846A	Scale Control @ 0.05 GPT	18	GAL	\$ 16.00	\$ 288.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE DENSIOMETER		1	STAGE	\$ 400.00	\$ 400.00
COMMAND CENTER		0	STAGE	\$ 1,500.00	\$ -
PUMP DOWN FOR PERFORATING		0	STAGE	\$ 1,500.00	\$ -
ARROWS UP SYSTEM		251.31	TON	\$ 55.00	\$ 13,822.05
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
Total No Discount					\$ 67,280.10
25% Discount Applied					\$ 16,820.03
Net Stage Total					\$ 50,460.08

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

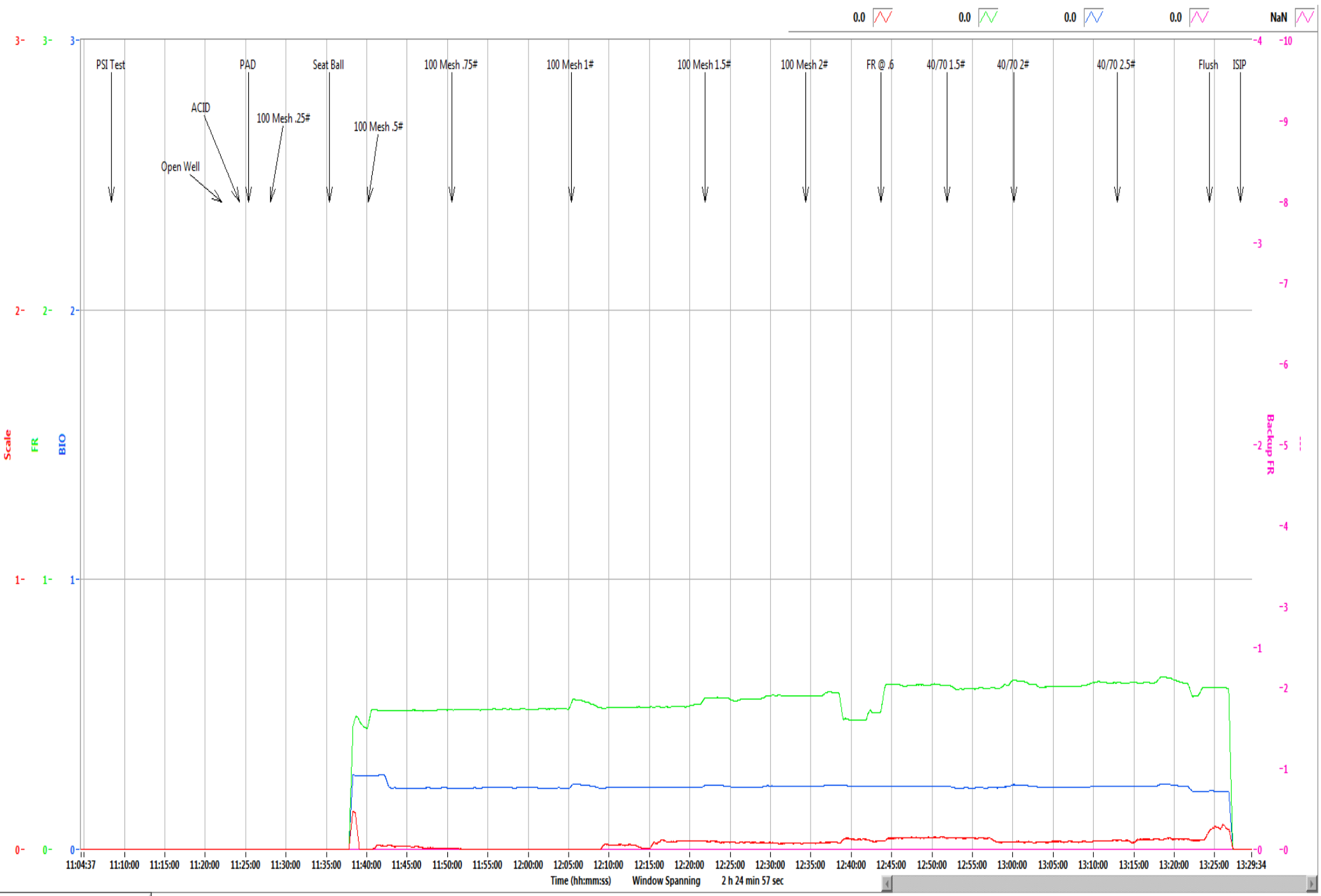


NNE
Boggess 17H
Stage 29
Producers Service Corp.

Post Stage Report
October 4, 2019



Refresh Graph



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Bogges Pad	17H
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Stage	29
Date:	10/4/19
OWP (psi):	3,651
Starting Time	11:22 AM
Ending Time	1:28 PM
Pump Time (hr:min)	02:06
Swap Time (hr:min)	03:01
Starting # Pumps	16
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,228
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,375
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,662
Displacement (psi)	8,791
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)	9,277
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	329
Pad (bbls)	75
Treatment (bbls)	8,907
Displacement (bbls)	301
(Acid Included) Total (bbls)	9,289
Dirty Job Total (bbls)	9,713
100 Mesh	300,320
40/70	200,060
Total Proppant (lbs)	500,380
Total Proppant %	100.1%

CHEMICALS

FR 9800	203
Biocide	104
Scale	22

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



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

Invoice #: 23852
 Date: 10/4/2019
 Well Name: Bogges 17H
 Stage No.: 29

State: WV
 County: Monongahela
 Operator: Stetson/Moon
 PO/AFE: 100430

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	3,003.20	CWT	\$ 5.50	\$ 16,517.60
SAND 40/70	40/70 white	2,000.60	CWT	\$ 5.75	\$ 11,503.45
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	203	GAL	\$ 17.75	\$ 3,603.25
BIOC11219A	Biocide @ 0.25 GPT	104	GAL	\$ 16.00	\$ 1,664.00
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		250.19	TON	\$ 55.00	\$ 13,760.45
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,860.75
				25% Discount Applied	\$ 16,965.19
				Net Stage Total	\$ 50,895.56

(Print Name) Customer Rep: Rob Cowger

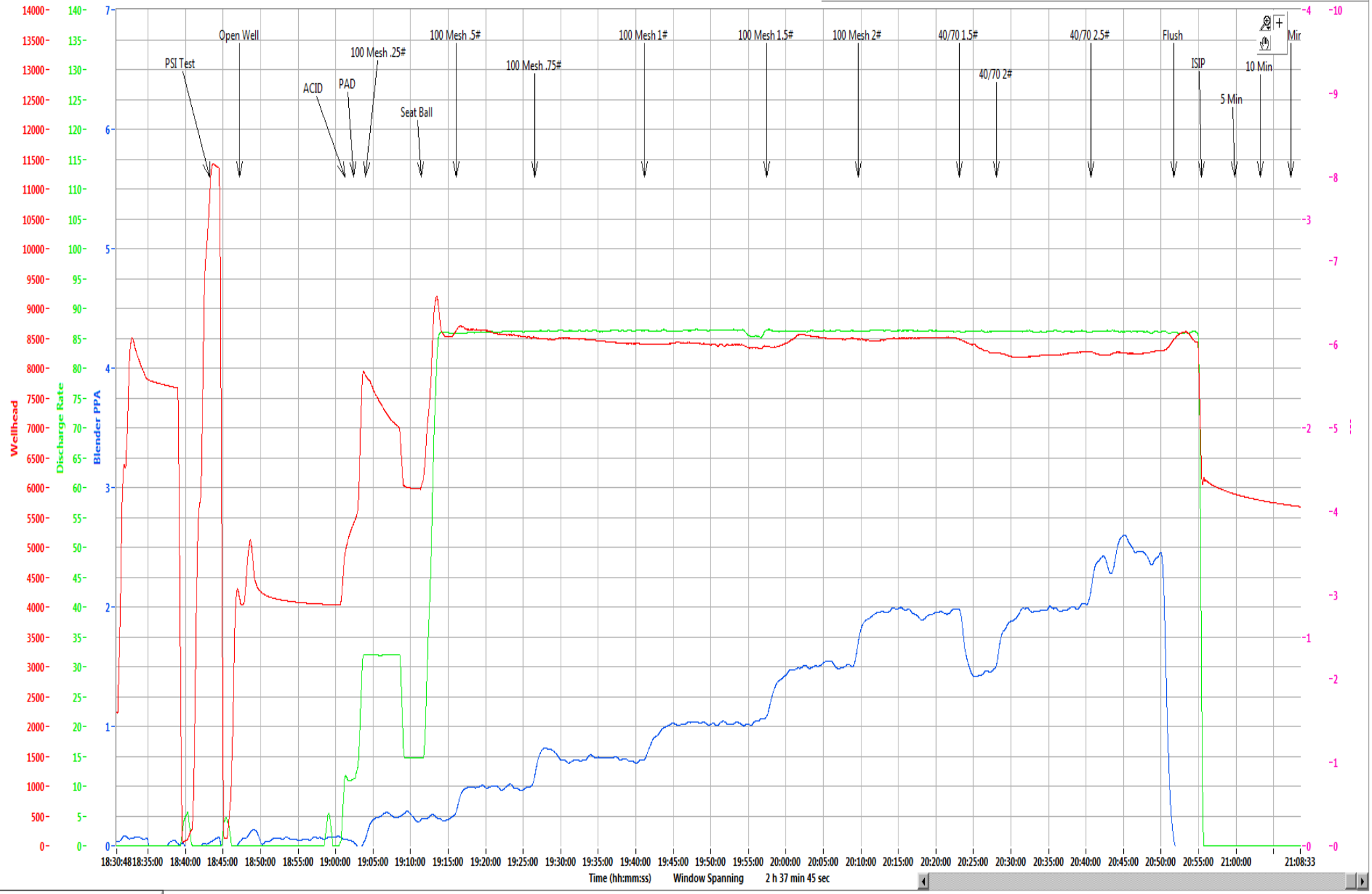
Customer Signature: *Rob Cowger*



NNE
Boggess 17H
Stage 30
Producers Service Corp.

Post Stage Report
October 4, 2019

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Boggess Pad**17H**

Stage	30
Date:	10/4/19
OWP (psi):	4,037
Starting Time	6:47 PM
Ending Time	8:55 PM
Pump Time (hr:min)	02:08
Swap Time (hr:min)	01:35
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,226
Average Treating Rate (bbl/min)	86
Average Treating Pressure (psi)	8,414
Maximum Treating Rate (bbl/min)	87
Maximum Treating Pressure (psi)	9,317
Displacement (psi)	8,517
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,000
Final FG (psi/ft)	1.18
5 Minute Leakoff Pressure (psi)	5,882
5 Minute Leakoff Rate (psi/min)	24
10 Minute Leakoff Pressure (psi)	5,778
10 Minute Leakoff Rate (psi/min)	22
15 Minute Leakoff Pressure (psi)	5,693
15 Minute Leakoff Rate (psi/min)	20

Fluids & Proppant

Slickwater (bbls)	8,699
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	283
Pad (bbls)	59
Treatment (bbls)	8,354
Displacement (bbls)	292
(Acid Included) Total (bbls)	8,711
Dirty Job Total (bbls)	9,159
100 Mesh	299,700
40/70	200,400
Total Proppant (lbs)	500,100
Total Proppant %	100.0%

CHEMICALS

FR 9800	181
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 #: 23854
 Date: 10/4/2019
 Well Name: Bogges 17H
 Stage No.: 30

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100430

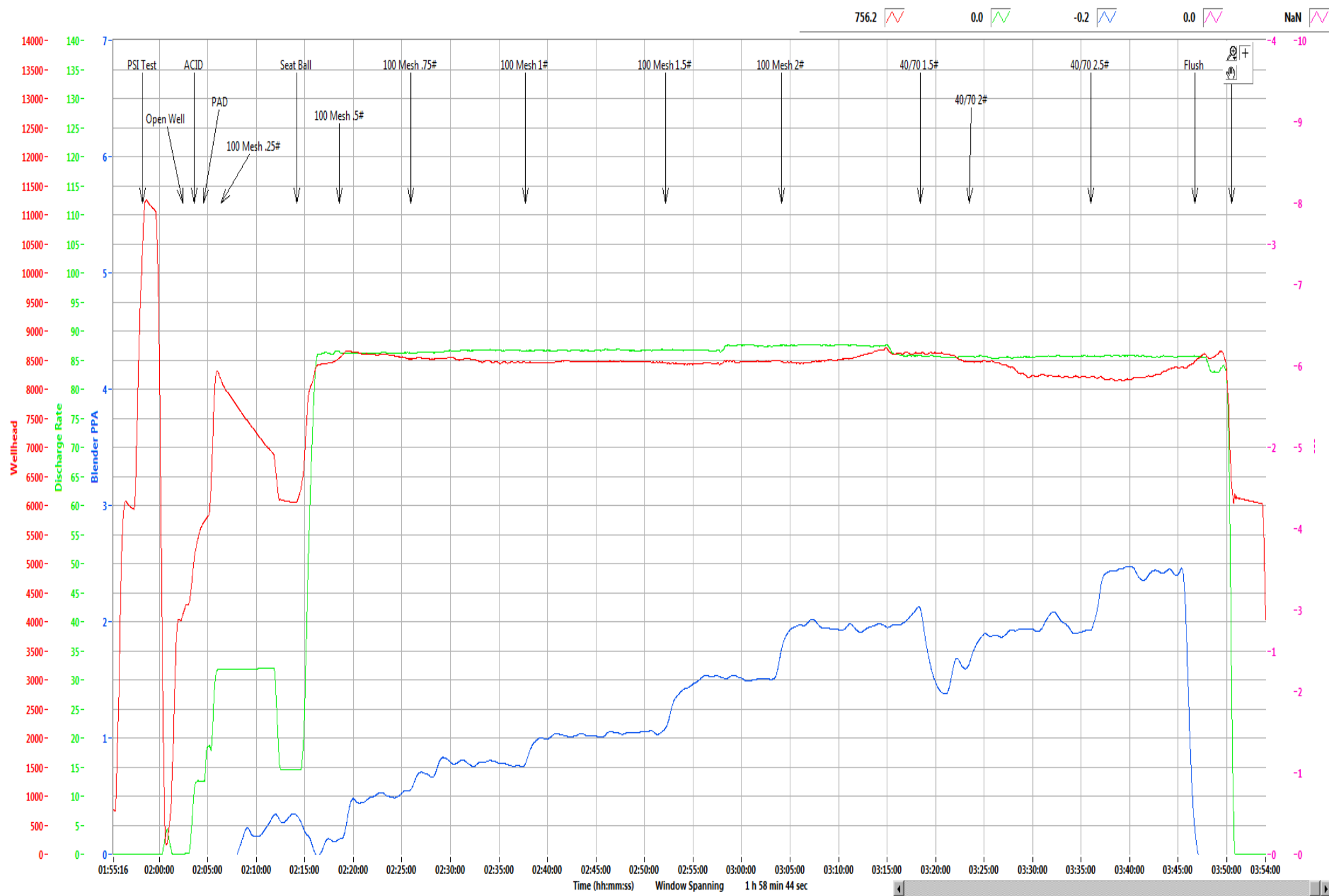
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	2,997.00	CWT	\$ 5.50	\$ 16,483.50
SAND 40/70	40/70 white	2,004.00	CWT	\$ 5.75	\$ 11,523.00
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	181	GAL	\$ 17.75	\$ 3,212.75
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		250.05	TON	\$ 55.00	\$ 13,752.75
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,176.00
				25% Discount Applied	\$ 16,794.00
				Net Stage Total	\$ 50,382.00

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



NNE
Boggess 17H
Stage 31
Producers Service Corp.

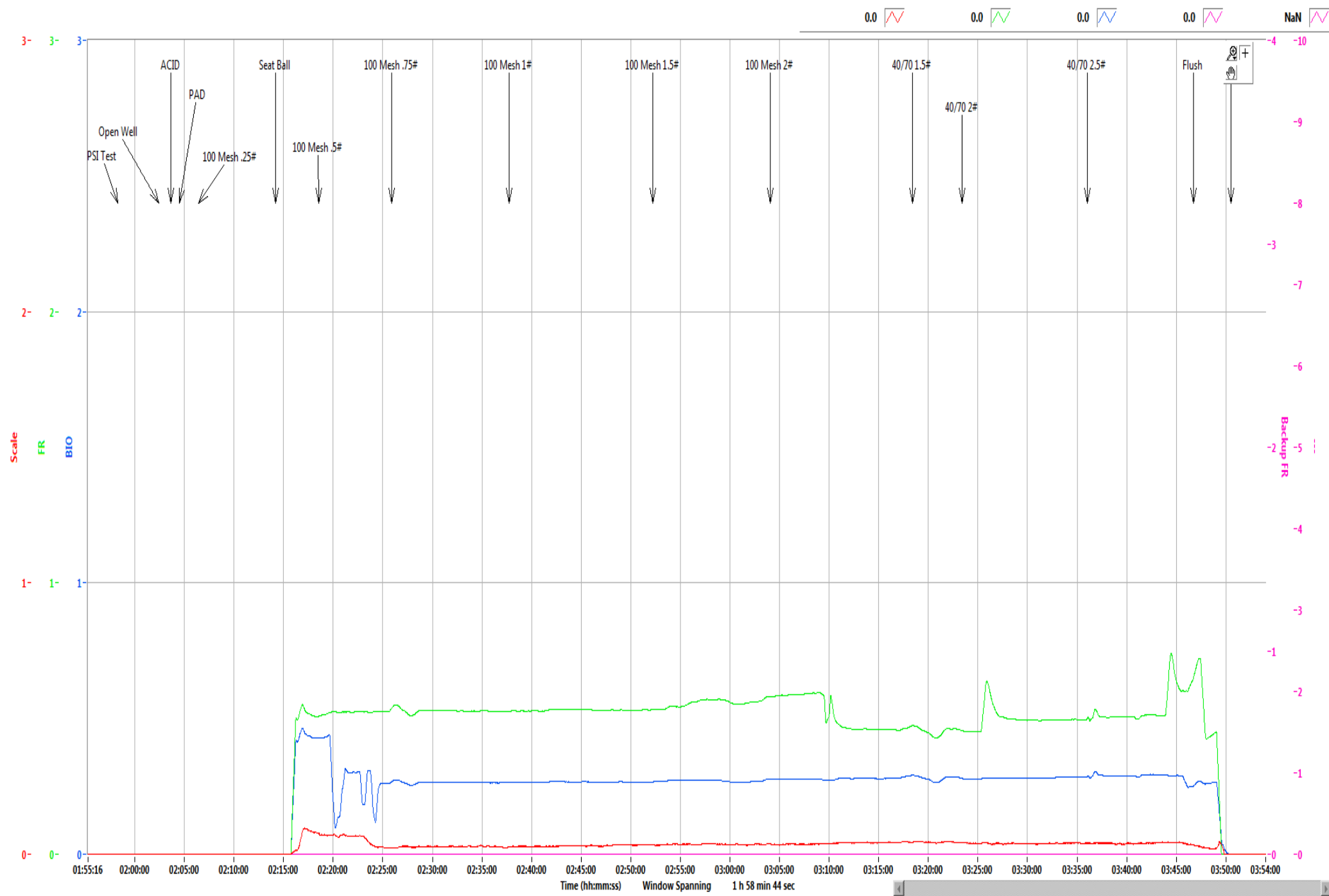
Post Stage Report
October 5, 2019



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Time (hh:mm:ss) Window Spanning 1 h 58 min 44 sec



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Boggess Pad**17H**

Stage	31
Date:	10/5/19
OWP (psi):	4,282
Starting Time	2:02 AM
Ending Time	3:50 AM
Pump Time (hr:min)	01:48
Swap Time (hr:min)	01:15
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,381
Average Treating Rate (bbl/min)	86
Average Treating Pressure (psi)	8,452
Maximum Treating Rate (bbl/min)	89
Maximum Treating Pressure (psi)	8,761
Displacement (psi)	8,555
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,886
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)	8,096
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	307
Pad (bbls)	68
Treatment (bbls)	7,740
Displacement (bbls)	294
(Acid Included) Total (bbls)	8,108
Dirty Job Total (bbls)	8,566
100 Mesh	322,140
40/70	177,940
Total Proppant (lbs)	500,080
Total Proppant %	100.0%

CHEMICALS

FR 9800	168
Biocide	84
Scale	17

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



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

Invoice #: 23855
 Date: 10/5/2019
 Well Name: Boggress 17H
 Stage No.: 31

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100430

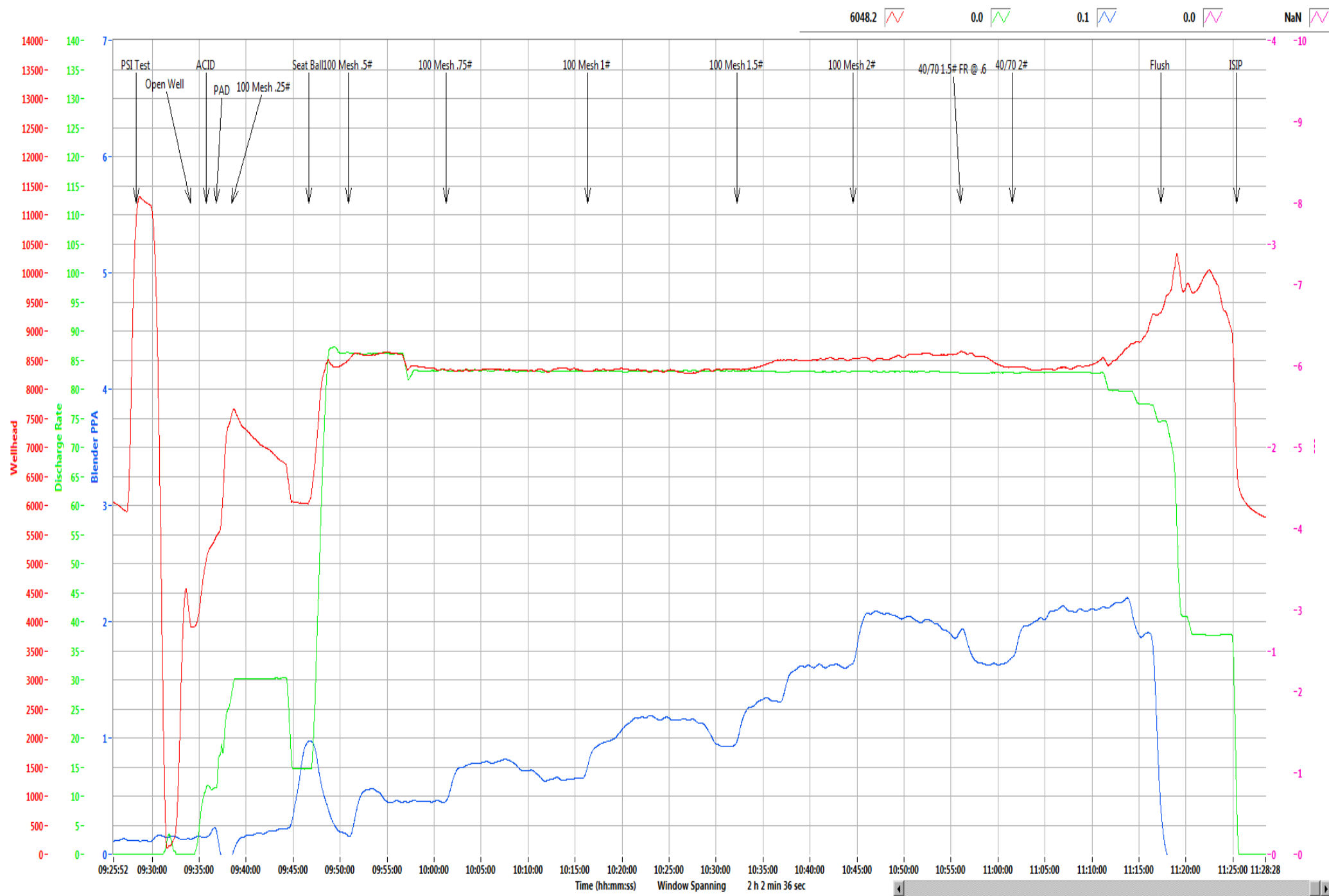
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	3,221.40	CWT	\$ 5.50	\$ 17,717.70
SAND 40/70	40/70 white	1,779.40	CWT	\$ 5.75	\$ 10,231.55
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	168	GAL	\$ 17.75	\$ 2,982.00
BIOC11219A	Biocide @ 0.25 GPT	84	GAL	\$ 16.00	\$ 1,344.00
SCAL16846A	Scale Control @ 0.05 GPT	17	GAL	\$ 16.00	\$ 272.00
HIGH PRESSURE MANIFOLD		1	STAGE	\$ 1,500.00	\$ 1,500.00
N2 PRESSURE RELIEF VALVE		1	STAGE	\$ 200.00	\$ 200.00
HIGH PRESSURE 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		250.04	TON	\$ 55.00	\$ 13,752.20
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 66,759.45
				25% Discount Applied	\$ 16,689.86
				Net Stage Total	\$ 50,069.59

(Print Name) Mike Inman Customer Signature: 

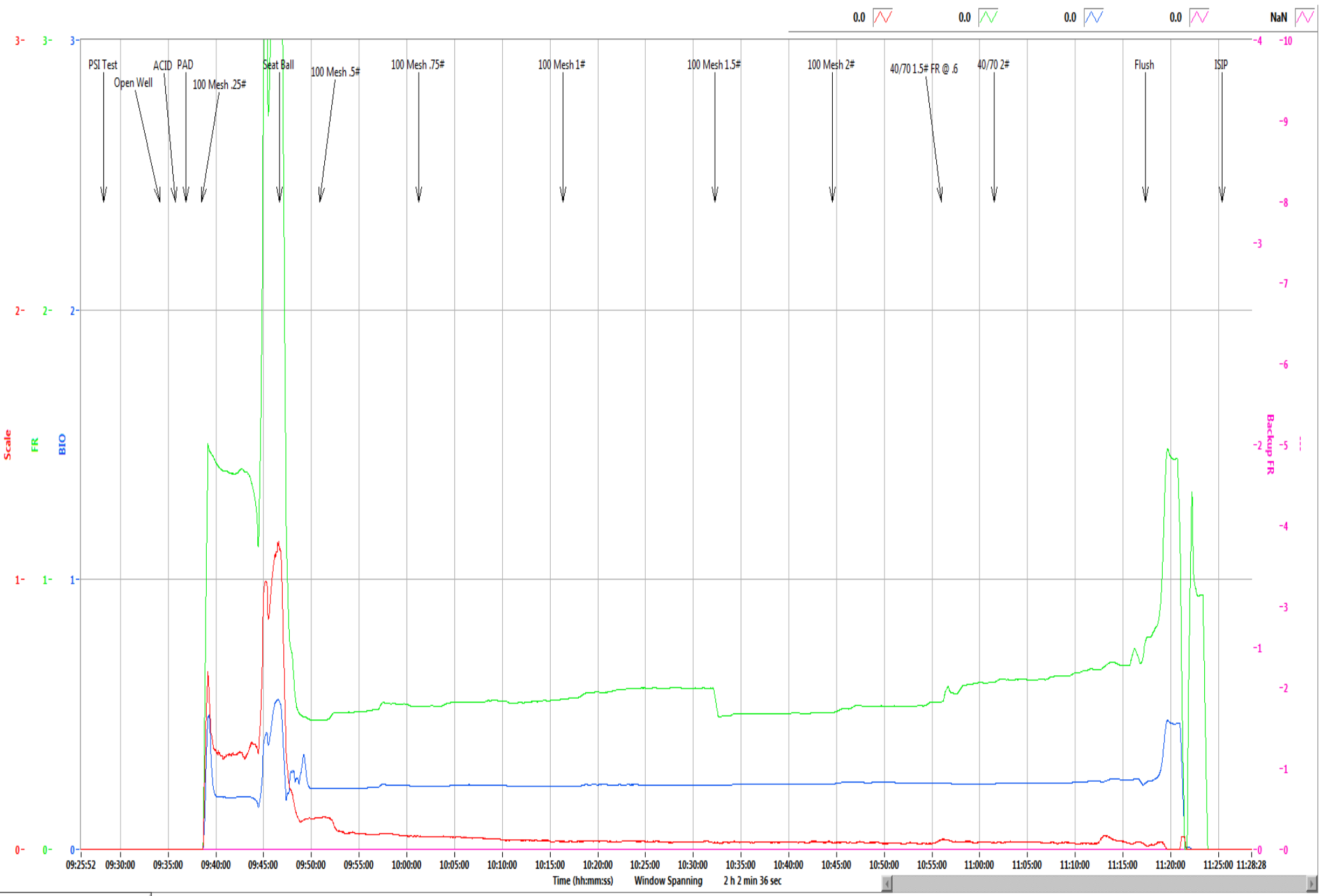


NNE
Boggess 17H
Stage 32
Producers Service Corp.

Post Stage Report
October 5, 2019



Refresh Graph



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Boggess Pad**17H**

Stage	32
Date:	10/5/19
OWP (psi):	3,899
Starting Time	9:28 AM
Ending Time	11:26 AM
Pump Time (hr:min)	01:58
Swap Time (hr:min)	01:40
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,277
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,444
Maximum Treating Rate (bbl/min)	88
Maximum Treating Pressure (psi)	10,520
Displacement (psi)	9,368
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	6,285
Final FG (psi/ft)	1.22
5 Minute Leakoff Pressure (psi)	
5 Minute Leakoff Rate (psi/min)	
10 Minute Leakoff Pressure (psi)	
10 Minute Leakoff Rate (psi/min)	
15 Minute Leakoff Pressure (psi)	
15 Minute Leakoff Rate (psi/min)	

Fluids & Proppant

Slickwater (bbls)	7,861
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	293
Pad (bbls)	41
Treatment (bbls)	7,456
Displacement (bbls)	348
(Acid Included) Total (bbls)	7,873
Dirty Job Total (bbls)	8,251
100 Mesh	299,880
40/70	149,600
Total Proppant (lbs)	449,480
Total Proppant %	89.9%

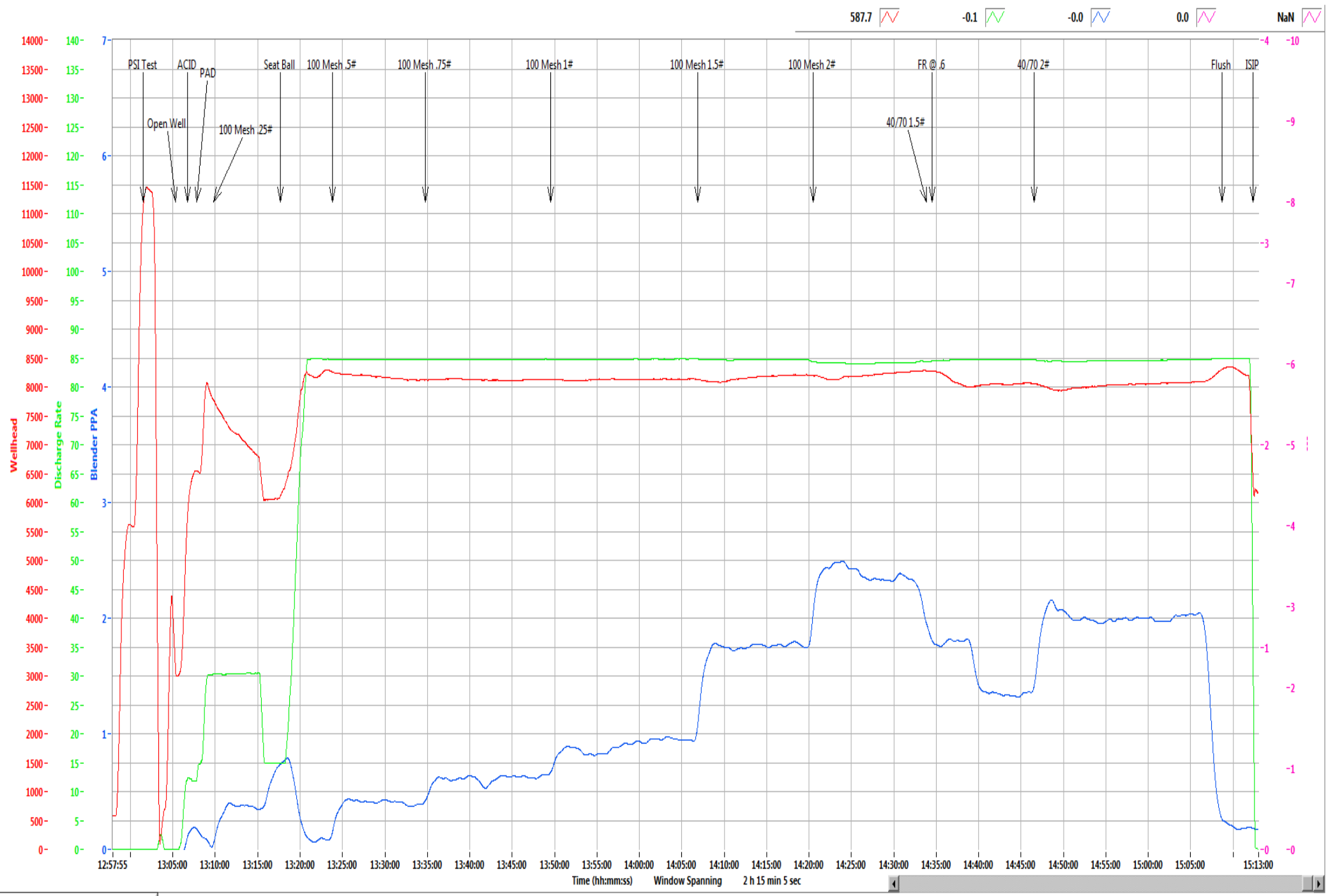
CHEMICALS

FR 9800	176
Biocide	82
Scale	18

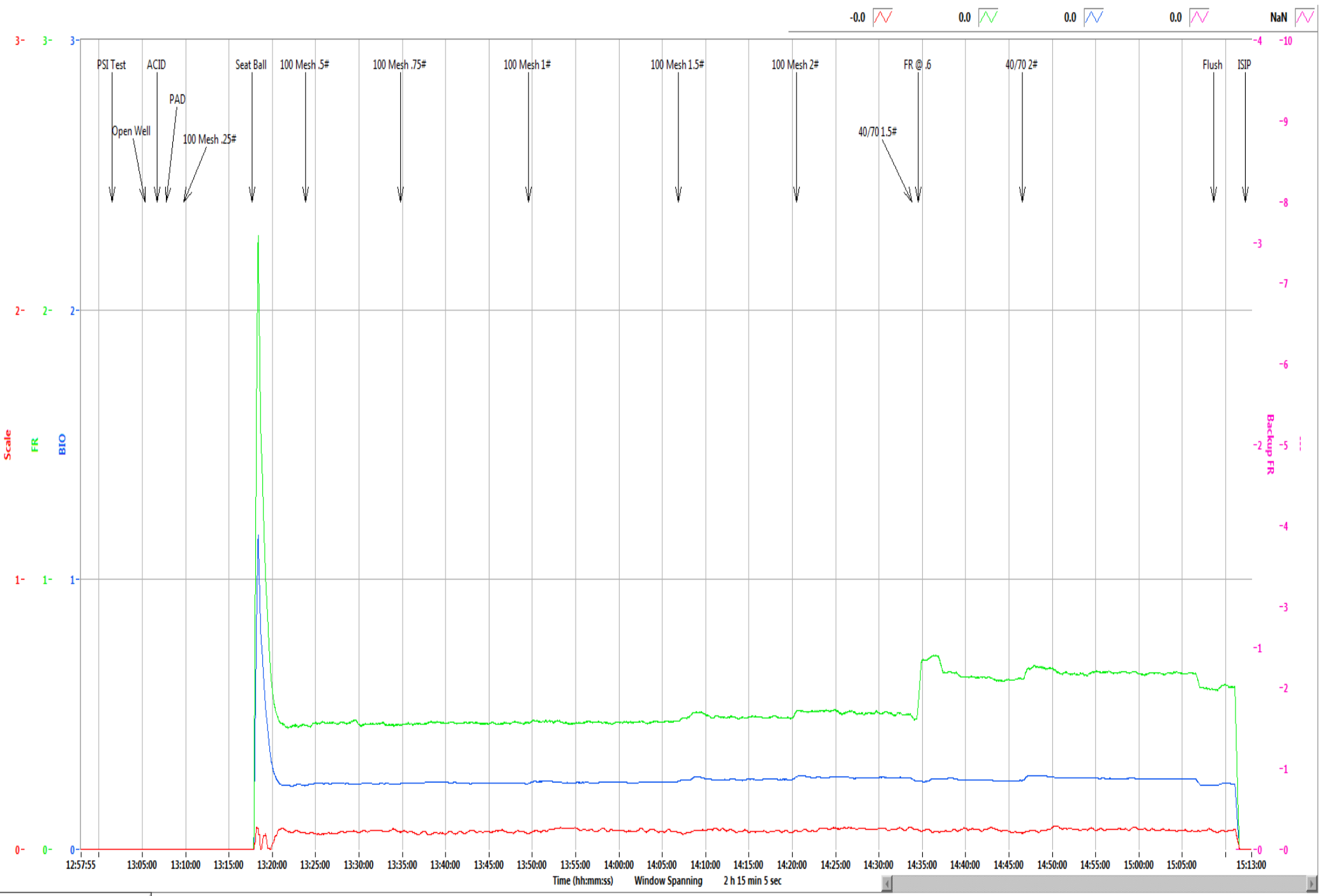


NNE
Boggess 17H
Stage 33
Producers Service Corp.

Post Stage Report
October 6, 2019



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Boggess Pad	17H
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Stage	33
Date:	10/6/19
OWP (psi):	2,988
Starting Time	1:05 PM
Ending Time	3:12 PM
Pump Time (hr:min)	02:07
Swap Time (hr:min)	04:08
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,262
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,125
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,458
Displacement (psi)	8,285
Max Prop Con (lb/gal)	2.00
ShutDown ISIP (psi)	6,112
Final FG (psi/ft)	1.20
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)	9,230
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	234
Pad (bbls)	49
Treatment (bbls)	8,904
Displacement (bbls)	283
(Acid Included) Total (bbls)	9,242
Dirty Job Total (bbls)	9,910
100 Mesh	300,160
40/70	199,940
Total Proppant (lbs)	500,100
Total Proppant %	100.0%

CHEMICALS

FR 9800	214
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 #: 23862
Date: 10/6/2019
Well Name: Bogges 17H
Stage No.: 33

State: WV
County: Monongahela
Operator: Stetson/Moon
PO/AFE: 100430

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	1,999.40	CWT	\$ 6.75	\$ 11,496.55
SlimSTREAM 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	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		250.05	TON	\$ 55.00	\$ 13,752.75
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,048.60
				25% Discount Applied	\$ 17,012.15
				Net Stage Total	\$ 51,036.45

(Print Name)

Customer Rep: Rob Cowser

Customer Signature: RA Cowser

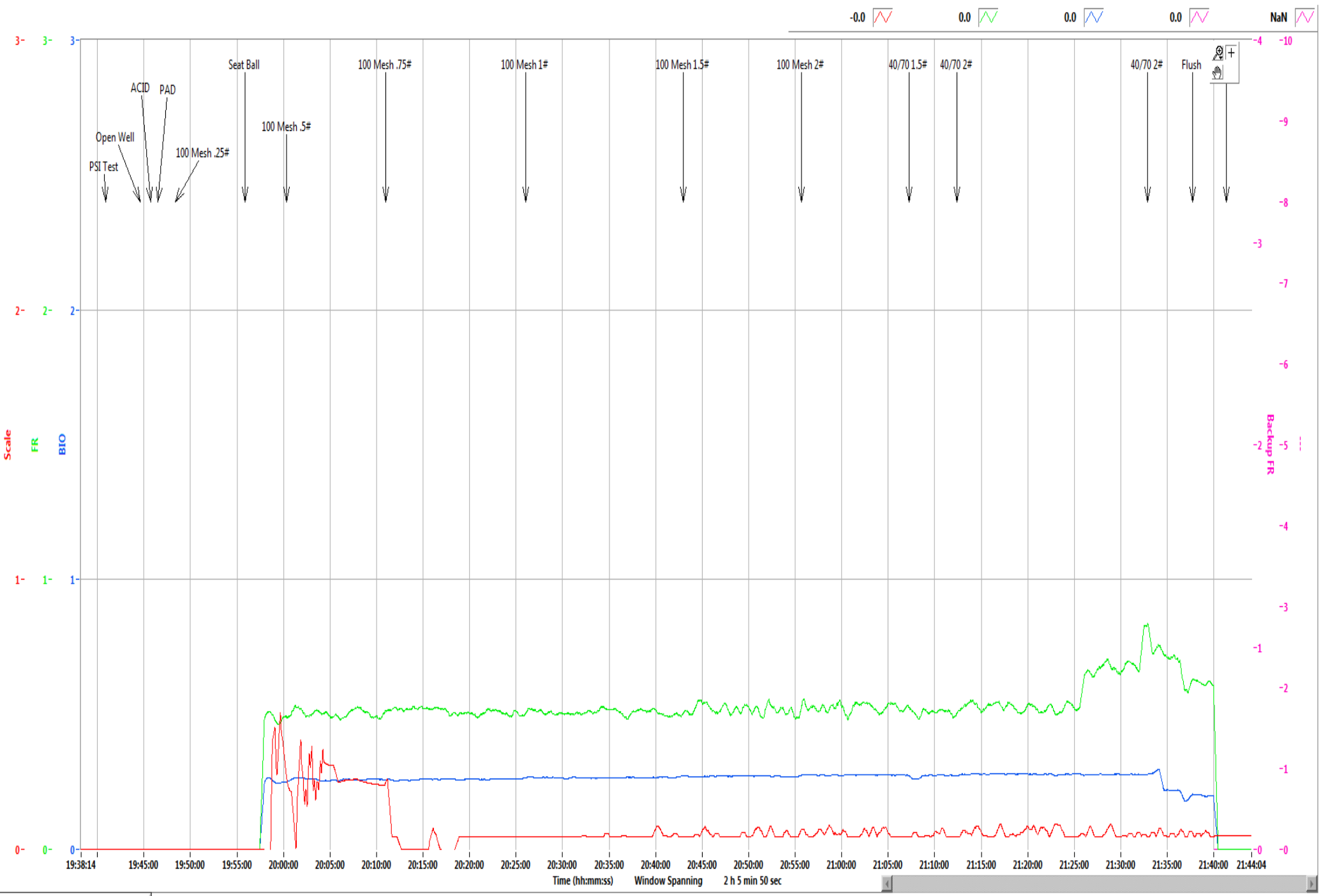


NNE
Boggess 17H
Stage 34
Producers Service Corp.

Post Stage Report
October 6, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	34
Date:	10/6/19
OWP (psi):	4,126
Starting Time	7:44 PM
Ending Time	9:41 PM
Pump Time (hr:min)	01:57
Swap Time (hr:min)	01:47
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,482
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,220
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,498
Displacement (psi)	8,399
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,155
Final FG (psi/ft)	1.20
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)	8,544
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	230
Pad (bbls)	68
Treatment (bbls)	8,207
Displacement (bbls)	275
(Acid Included) Total (bbls)	8,556
Dirty Job Total (bbls)	9,031
100 Mesh	297,240
40/70	203,420
Total Proppant (lbs)	500,660
Total Proppant %	100.1%

CHEMICALS

FR 9800	191
Biocide	92
Scale	19

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



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

Invoice #: 23864
 Date: 10/6/2019
 Well Name: Bogges 17H
 Stage No.: 34

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100430

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	2,972.40	CWT	\$ 5.50	\$ 16,348.20
SAND 40/70	40/70 white	2,034.20	CWT	\$ 5.75	\$ 11,696.65
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	191	GAL	\$ 17.75	\$ 3,390.25
BIOC11219A	Biocide @ 0.25 GPT	92	GAL	\$ 16.00	\$ 1,472.00
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		250.33	TON	\$ 55.00	\$ 13,768.15
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 67,439.25
 25% Discount Applied \$ 16,859.81
 Net Stage Total \$ 50,579.44

(Print Name) MIKE INMA Customer Rep: _____ Customer Signature: _____

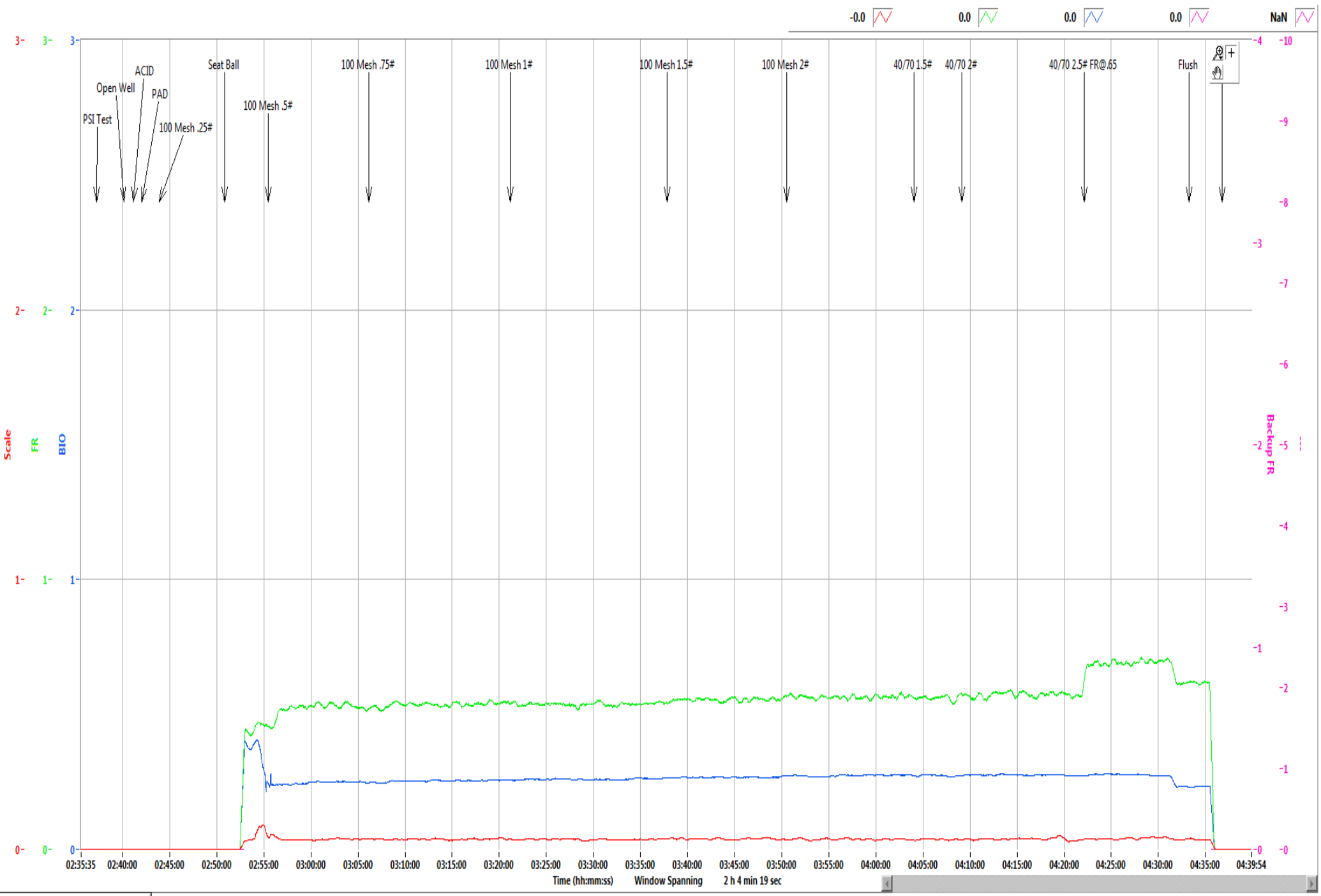


NNE
Boggess 17H
Stage 35
Producers Service Corp.

Post Stage Report
October 7, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	35
Date:	10/7/19
OWP (psi):	4,430
Starting Time	2:40 AM
Ending Time	4:36 AM
Pump Time (hr:min)	01:56
Swap Time (hr:min)	01:01
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,232
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,060
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	9,454
Displacement (psi)	8,209
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,027
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)	8,625
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	257
Pad (bbls)	70
Treatment (bbls)	8,291
Displacement (bbls)	270
(Acid Included) Total (bbls)	8,637
Dirty Job Total (bbls)	9,091
100 Mesh	300,240
40/70	199,020
Total Proppant (lbs)	499,260
Total Proppant %	99.9%

CHEMICALS

FR 9800	195
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 #: 23866
 Date: 10/7/2019
 Well Name: Boggess 17H ✓
 Stage No.: 35 ✓

State: WV
 County: Monongahela
 Operator: Jamie/Brad
 PO/AFE: 100430

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	3,002.40	CWT	\$ 5.50	\$ 16,513.20
SAND 40/70	40/70 white	1,990.20	CWT	\$ 5.75	\$ 11,443.65
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	195	GAL	\$ 17.75	\$ 3,461.25
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		249.63	TON	\$ 55.00	\$ 13,729.65
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,431.75
				25% Discount Applied	\$ 16,857.94
				Net Stage Total	\$ 50,573.81

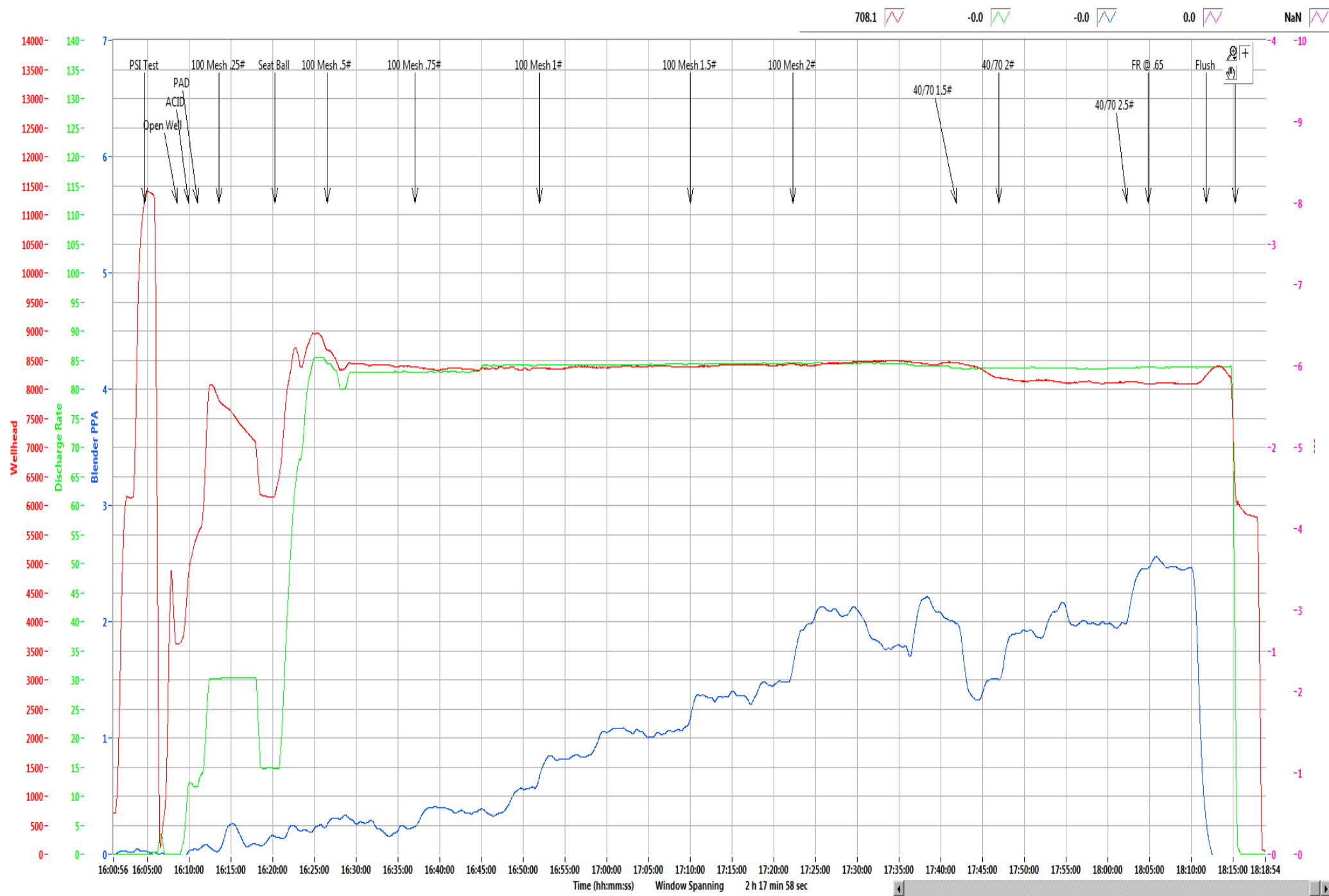
(Print Name) Mike Inman

Customer Signature: _____



NNE
Boggess 17H
Stage 36
Producers Service Corp.

Post Stage Report
October 7, 2019



Refresh Graph

Time (hh:mm:ss) Window Spanning 2 h 17 min 58 sec



Refresh Graph

Boggess Pad	17H
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Stage	36
Date:	10/7/19
OWP (psi):	3,631
Starting Time	4:08 PM
Ending Time	6:15 PM
Pump Time (hr:min)	02:07
Swap Time (hr:min)	00:47
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,510
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,346
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	9,016
Displacement (psi)	8,283
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,850
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)	9,393
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	212
Pad (bbls)	64
Treatment (bbls)	9,070
Displacement (bbls)	266
(Acid Included) Total (bbls)	9,405
Dirty Job Total (bbls)	9,791
100 Mesh	302,540
40/70	200,020
Total Proppant (lbs)	502,560
Total Proppant %	100.5%

CHEMICALS

FR 9800	208
Biocide	98
Scale	22

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



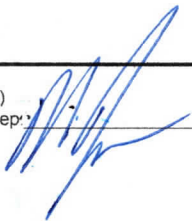
Producers Service Corp
 109 S. Graham St.
 Zanesville, OH 43701

Invoice #: 23869
 Date: 10/7/2019
 Well Name: Bogges 17H
 Stage No.: 36

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100430

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	3,025.40	CWT	\$ 5.50	\$ 16,639.70
SAND 40/70	40/70 white	2,000.20	CWT	\$ 5.75	\$ 11,501.15
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	208	GAL	\$ 17.75	\$ 3,692.00
BIOC11219A	Biocide @ 0.25 GPT	98	GAL	\$ 16.00	\$ 1,568.00
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		251.28	TON	\$ 55.00	\$ 13,820.40
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,033.25
				25% Discount Applied	\$ 17,008.31
				Net Stage Total	\$ 51,024.94

(Print Name)

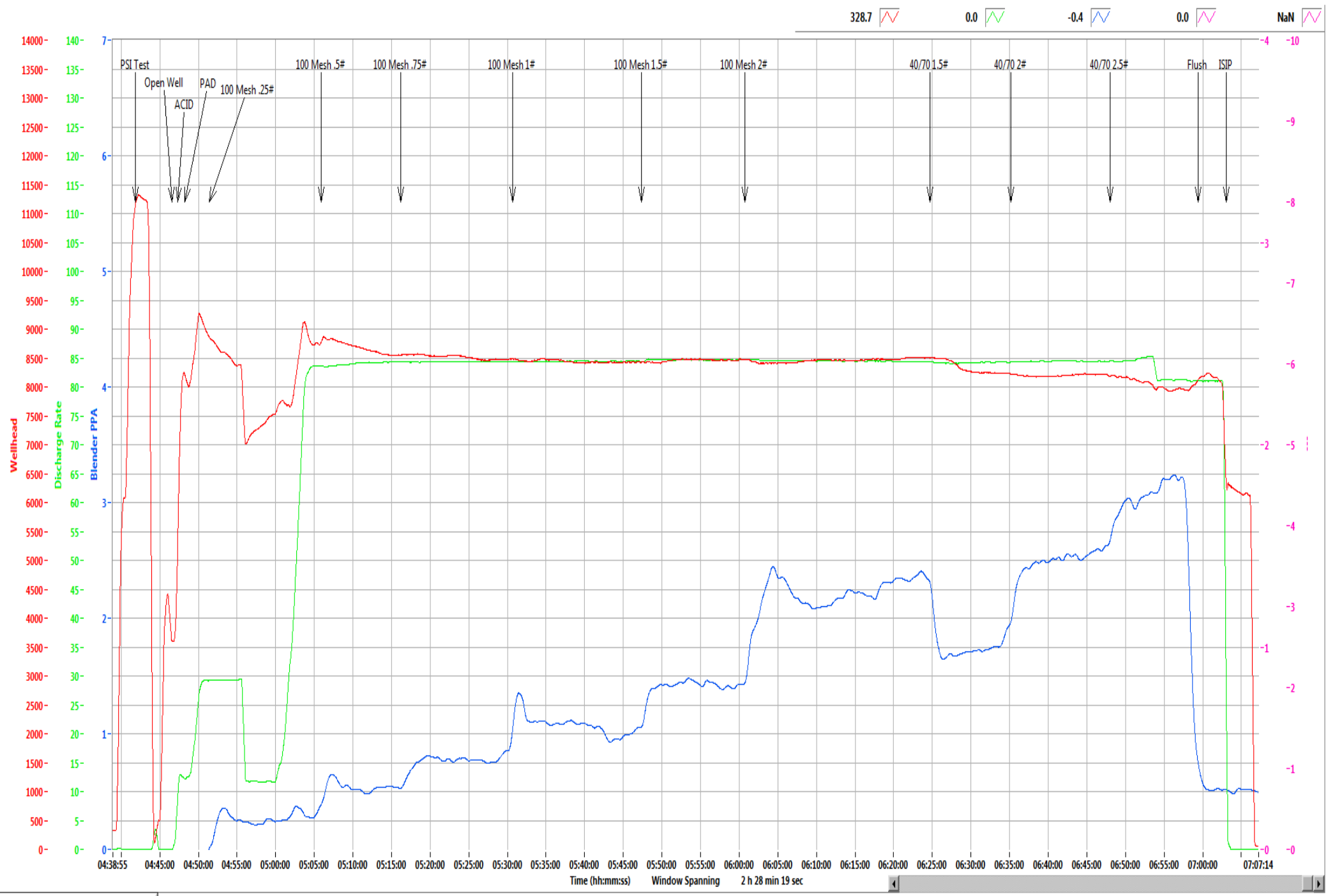
Customer Rep: 

Customer Signature: Mike James



NNE
Boggess 17H
Stage 37
Producers Service Corp.

Post Stage Report
October 8, 2019



Refresh Graph



Refresh Graph

Boggess Pad	17H
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Stage	37
Date:	10/8/19
OWP (psi):	3,958
Starting Time	4:46 AM
Ending Time	7:03 AM
Pump Time (hr:min)	02:17
Swap Time (hr:min)	06:33
Starting # Pumps	17
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	7,725
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,416
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,210
Displacement (psi)	8,166
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,608
Final FG (psi/ft)	1.26
5 Minute Leakoff Pressure (psi)	
5 Minute Leakoff Rate (psi/min)	
10 Minute Leakoff Pressure (psi)	
10 Minute Leakoff Rate (psi/min)	
15 Minute Leakoff Pressure (psi)	
15 Minute Leakoff Rate (psi/min)	

Fluids & Proppant

Slickwater (bbls)	10,126
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	1,655
Pad (bbls)	76
Treatment (bbls)	9,770
Displacement (bbls)	268
(Acid Included) Total (bbls)	10,138
Dirty Job Total (bbls)	10,536
100 Mesh	299,360
40/70	200,580
Total Proppant (lbs)	499,940
Total Proppant %	100.0%

CHEMICALS

FR 9800	215
Biocide	106
Scale	23

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



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

Invoice #: 23871
Date: 10/8/2019
Well Name: Boggess 17H
Stage No.: 37

State: WV
County: Monongahela
Operator: Tilton/Moon
PO/AFE: 100430

Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	500	GAL	\$ 1.25	\$ 625.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	1	GAL	\$ 35.00	\$ 35.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	2,993.60	CWT	\$ 5.50	\$ 16,464.80
SAND 40/70	40/70 white	2,005.80	CWT	\$ 5.75	\$ 11,533.35
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	215	GAL	\$ 17.75	\$ 3,816.25
BIOC11219A	Biocide @ 0.25 GPT	106	GAL	\$ 16.00	\$ 1,696.00
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		249.97	TON	\$ 55.00	\$ 13,748.35
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 68,086.75
				25% Discount Applied	\$ 17,021.69
				Net Stage Total	\$ 51,065.06

(Print Name)

Customer Rep:

Rob Cowger

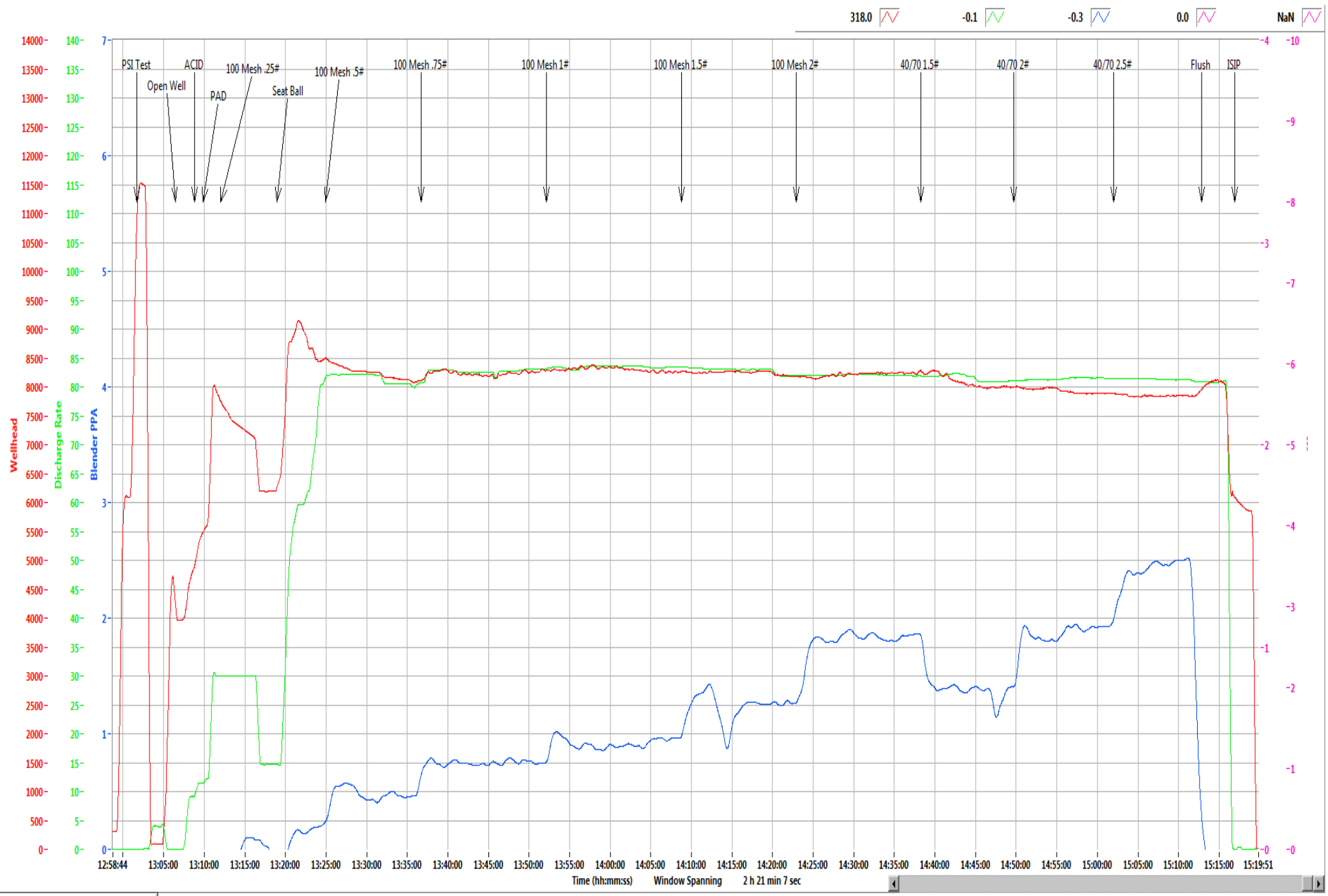
Customer Signature:

Rob Cowger

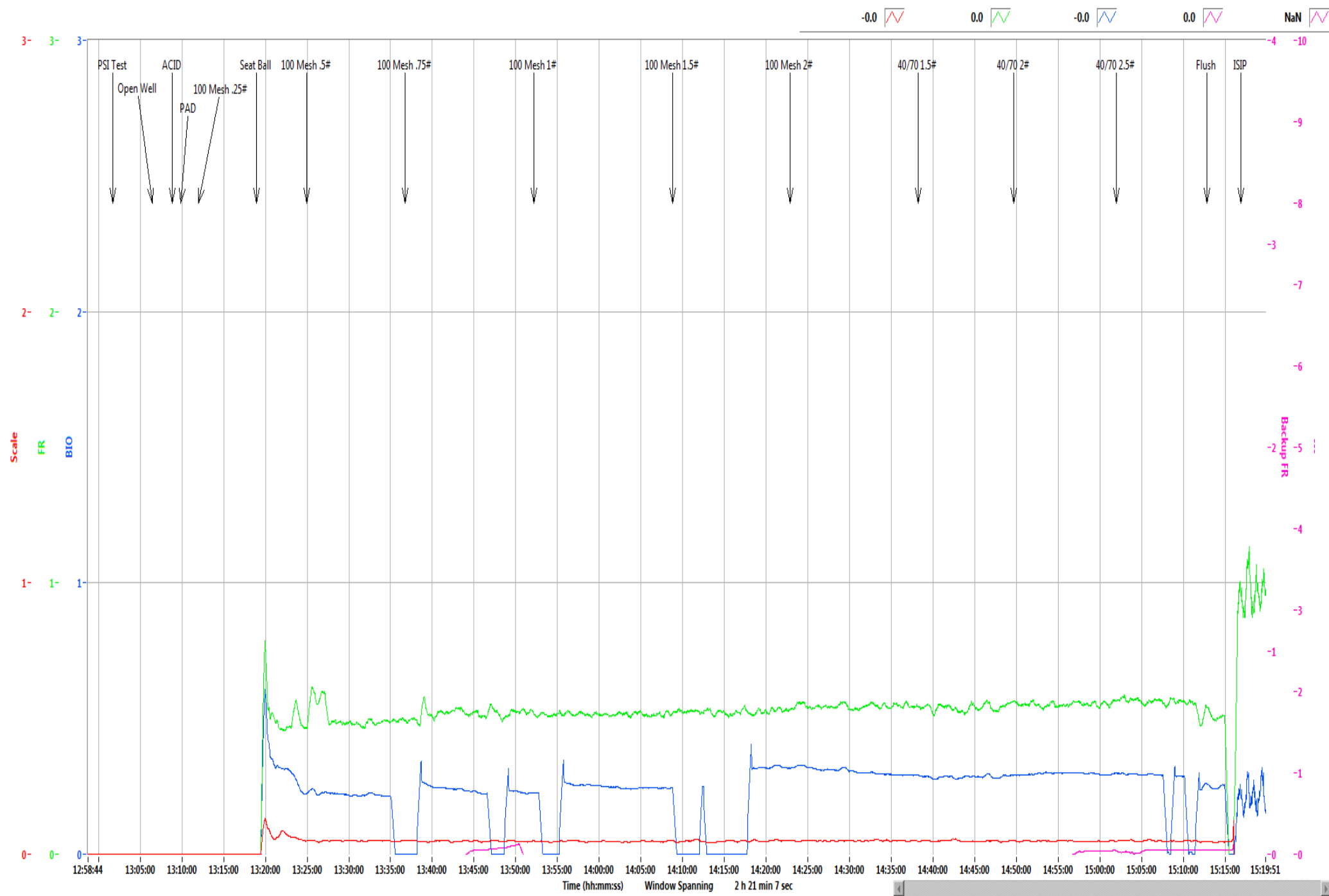


NNE
Boggess 17H
Stage 38
Producers Service Corp.

Post Stage Report
October 8, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	38
Date:	10/8/19
OWP (psi):	3,953
Starting Time	1:01 PM
Ending Time	3:16 PM
Pump Time (hr:min)	02:15
Swap Time (hr:min)	01:25
Starting # Pumps	17
Finishing # Pumps	15
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,462
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,163
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	9,188
Displacement (psi)	7,980
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,207
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)	9,380
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	207
Pad (bbls)	52
Treatment (bbls)	9,057
Displacement (bbls)	254
(Acid Included) Total (bbls)	9,392
Dirty Job Total (bbls)	9,794
100 Mesh	300,180
40/70	200,680
Total Proppant (lbs)	500,860
Total Proppant %	100.2%

CHEMICALS

FR 9800	202
Biocide	100
Scale	22

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



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

Invoice #: 23873
Date: 10/8/2019
Well Name: Boggess 17H
Stage No.: 38

State: WV
County: Monongahela
Operator: Tilton/Moon
PO/AFE: 100430

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	3,001.80	CWT	\$ 5.50	\$ 16,509.90
SAND 40/70	40/70 white	2,006.80	CWT	\$ 5.75	\$ 11,539.10
SlmSTREAM FR 9800	Friction Reducer @ 0.5 GPT	202	GAL	\$ 17.75	\$ 3,585.50
BIOC11219A	Biocide @ 0.25 GPT	100	GAL	\$ 16.00	\$ 1,600.00
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 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		250.43	TON	\$ 55.00	\$ 13,773.65
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -

Total No Discount \$ 67,820.15
25% Discount Applied \$ 16,955.04
Net Stage Total \$ 50,865.11

(Print Name)
Customer Rep:

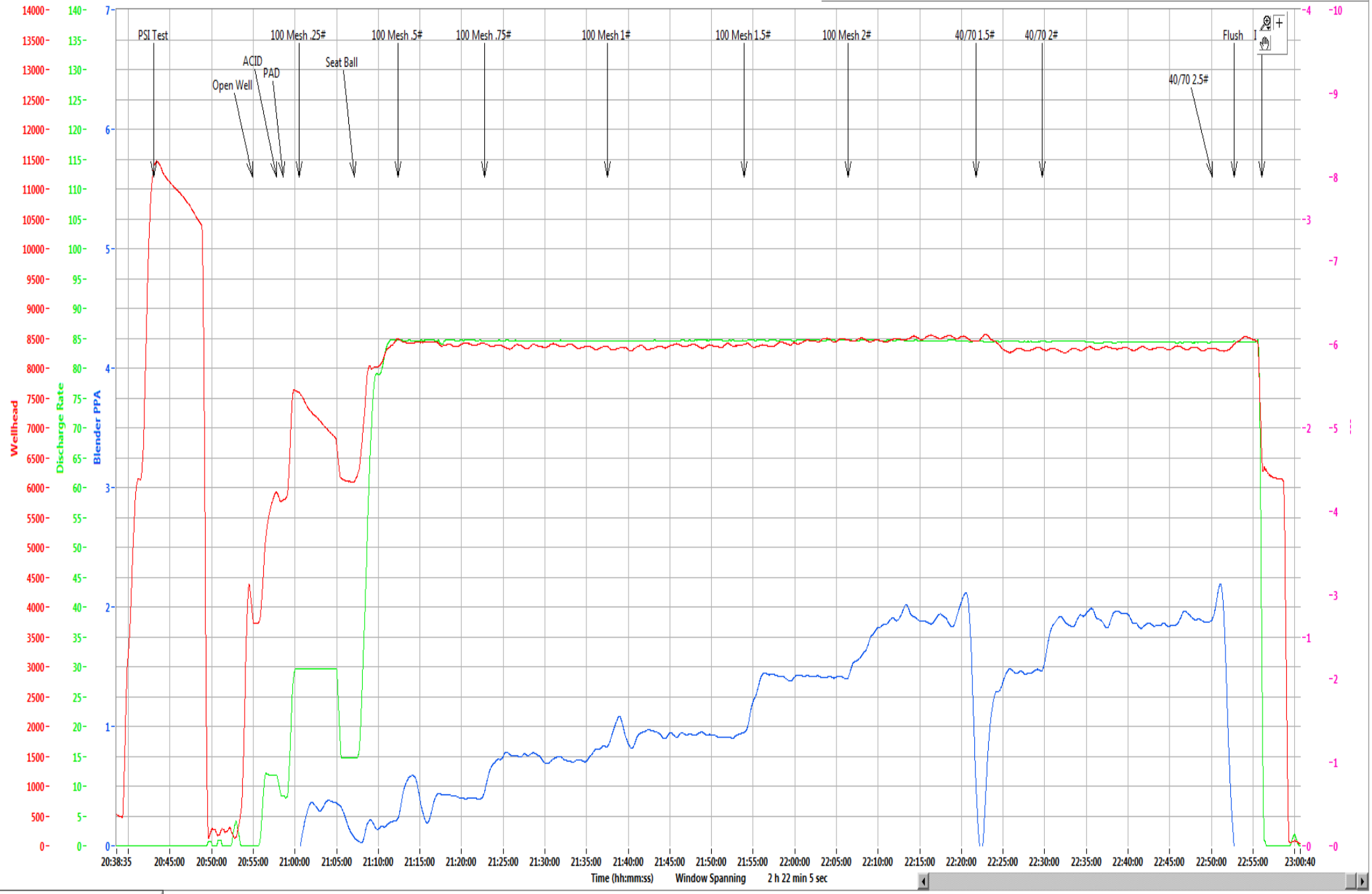
Rob Cowgo

Customer Signature:



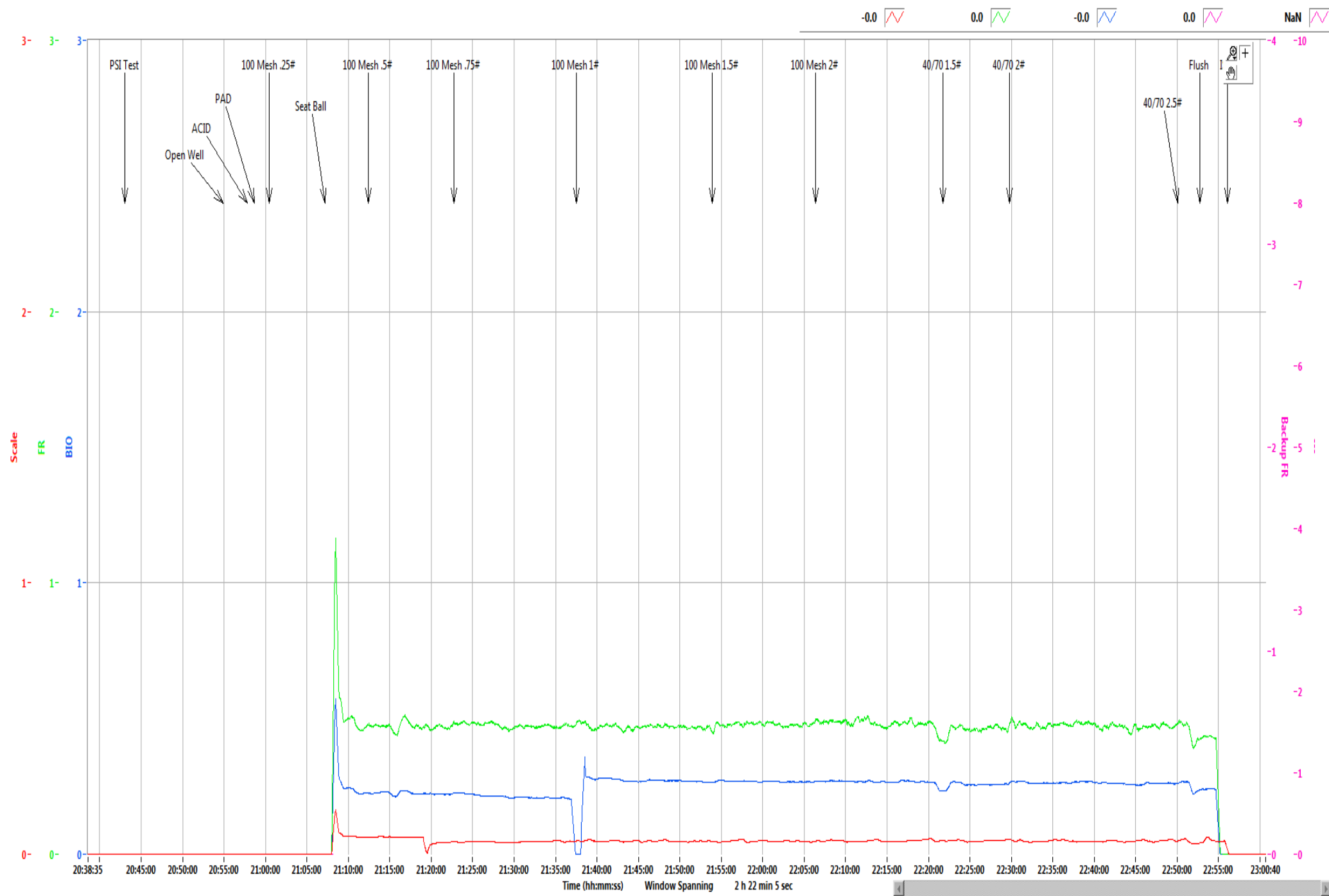
NNE
Boggess 17H
Stage 39
Producers Service Corp.

Post Stage Report
October 8, 2019



Time (hh:mm:ss) Window Spanning 2 h 22 min 5 sec

Refresh Graph



Boggess Pad**17H**

Stage	39
Date:	10/8/19
OWP (psi):	3,731
Starting Time	8:54 PM
Ending Time	10:56 PM
Pump Time (hr:min)	02:02
Swap Time (hr:min)	02:30
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,244
Average Treating Rate (bbl/min)	85
Average Treating Pressure (psi)	8,383
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,596
Displacement (psi)	8,442
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,118
Final FG (psi/ft)	1.20
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)	9,027
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	120
Pad (bbls)	41
Treatment (bbls)	8,735
Displacement (bbls)	258
(Acid Included) Total (bbls)	9,039
Dirty Job Total (bbls)	9,407
100 Mesh	299,160
40/70	200,940
Total Proppant (lbs)	500,100
Total Proppant %	100.0%

CHEMICALS

FR 9800	190
Biocide	93
Scale	23

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



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

Invoice #: 23875
 Date: 10/8/2019
 Well Name: Bogges 17H
 Stage No.: 39

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100430

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	2,991.60	CWT	\$ 5.50	\$ 16,453.80
SAND 40/70	40/70 white	2,009.40	CWT	\$ 5.75	\$ 11,554.05
SlimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	190	GAL	\$ 17.75	\$ 3,372.50
BIOC11219A	Biocide @ 0.25 GPT	93	GAL	\$ 16.00	\$ 1,488.00
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		250.05	TON	\$ 55.00	\$ 13,752.75
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
Total No Discount					\$ 67,449.10
25% Discount Applied					\$ 16,862.28
Net Stage Total					\$ 50,586.83

(Print Name)

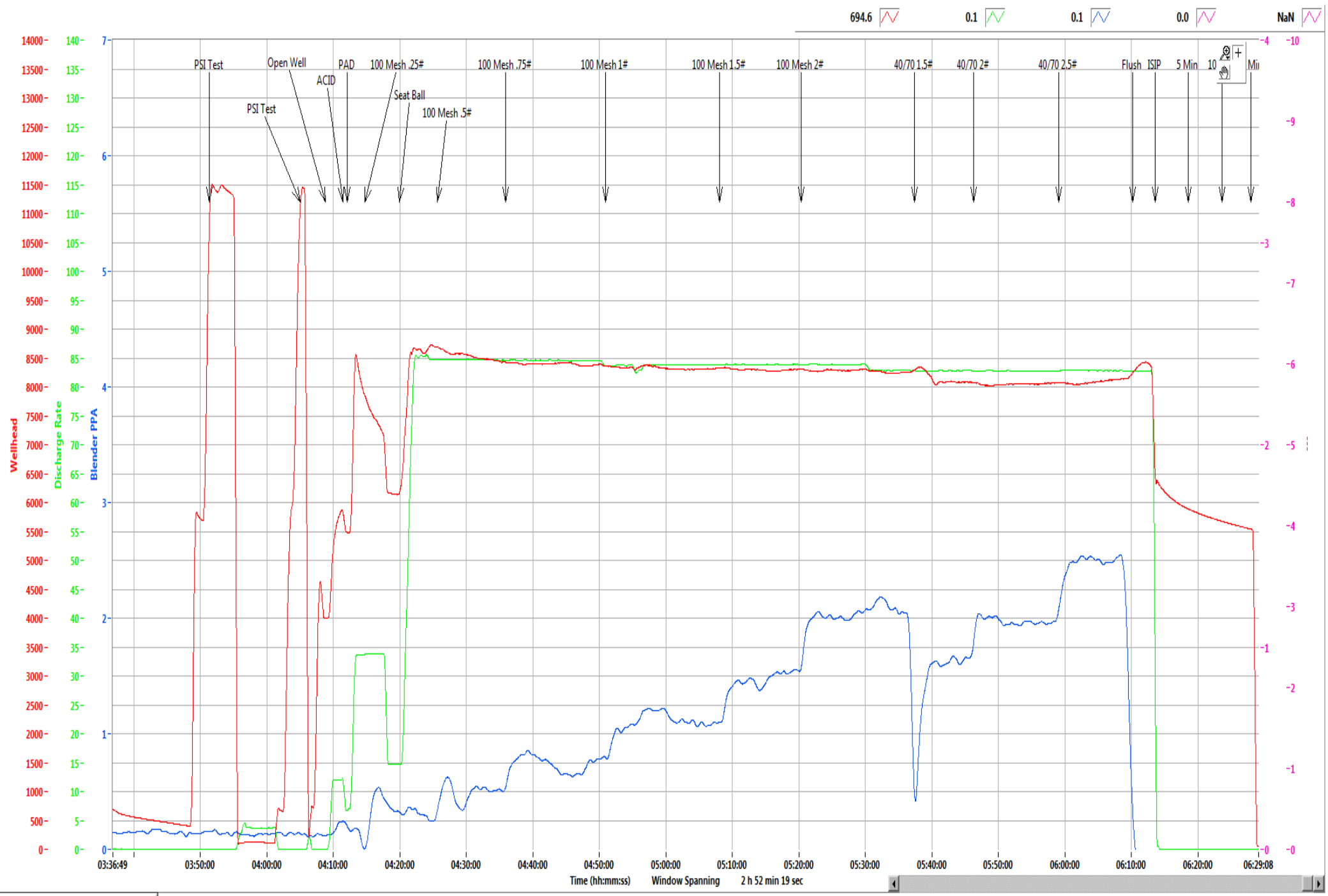
Customer Rep: Brad

Customer Signature: [Signature]

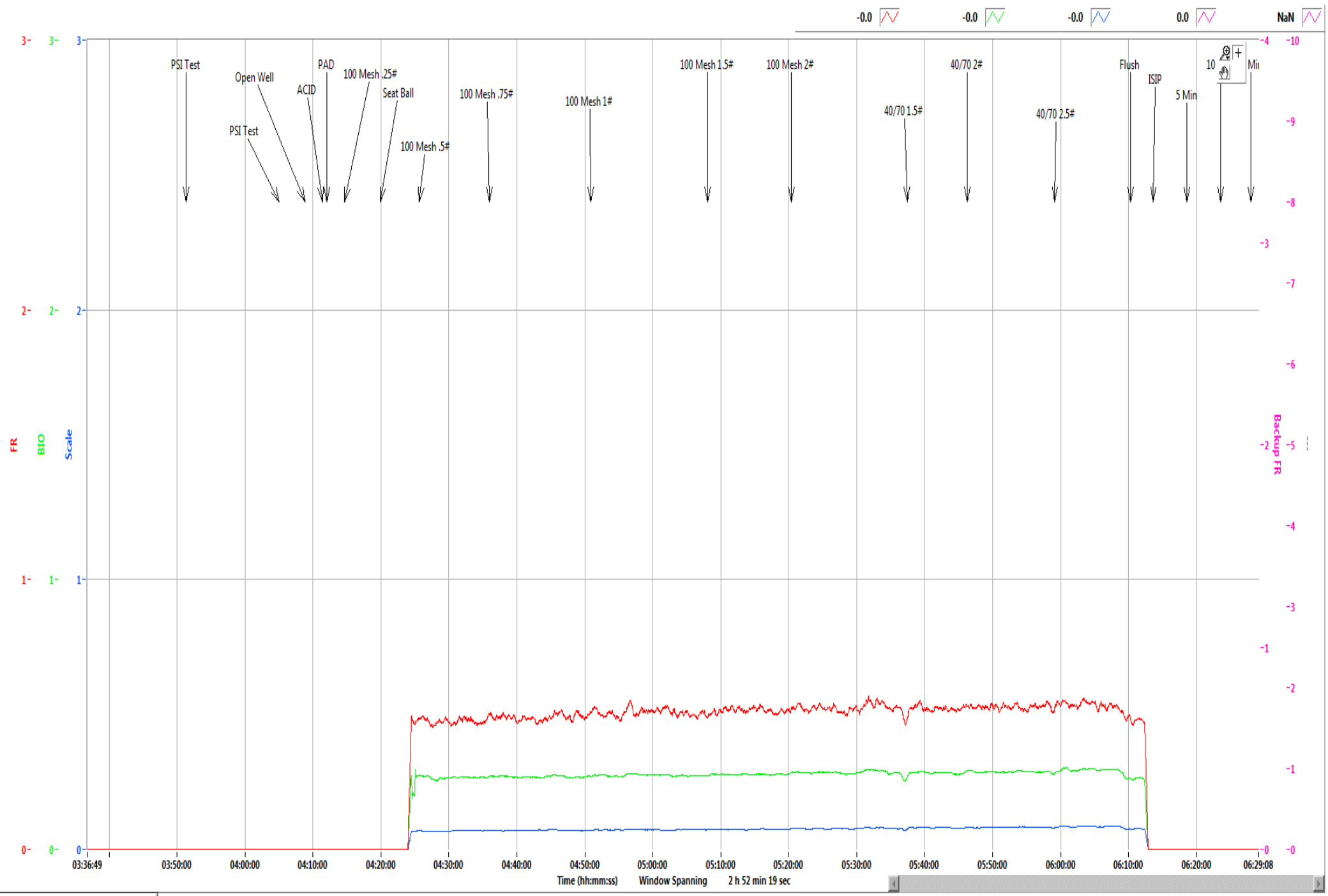


NNE
Boggess 17H
Stage 40
Producers Service Corp.

Post Stage Report
October 9, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	40
Date:	10/9/19
OWP (psi):	4,003
Starting Time	4:08 AM
Ending Time	6:13 AM
Pump Time (hr:min)	02:05
Swap Time (hr:min)	02:18
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,405
Average Treating Rate (bbl/min)	82
Average Treating Pressure (psi)	8,227
Maximum Treating Rate (bbl/min)	86
Maximum Treating Pressure (psi)	8,774
Displacement (psi)	8,297
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,467
Final FG (psi/ft)	1.24
5 Minute Leakoff Pressure (psi)	5,876
5 Minute Leakoff Rate (psi/min)	118
10 Minute Leakoff Pressure (psi)	5,669
10 Minute Leakoff Rate (psi/min)	80
15 Minute Leakoff Pressure (psi)	5,532
15 Minute Leakoff Rate (psi/min)	62

Fluids & Proppant

Slickwater (bbls)	9,353
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	120
Pad (bbls)	75
Treatment (bbls)	9,032
Displacement (bbls)	254
(Acid Included) Total (bbls)	9,365
Dirty Job Total (bbls)	9,727
100 Mesh	300,680
40/70	199,920
Total Proppant (lbs)	500,600
Total Proppant %	100.1%

CHEMICALS

FR 9800	197
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 #: 23877
 Date: 10/9/2019
 Well Name: Boggess-17H
 Stage No.: 40

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100430

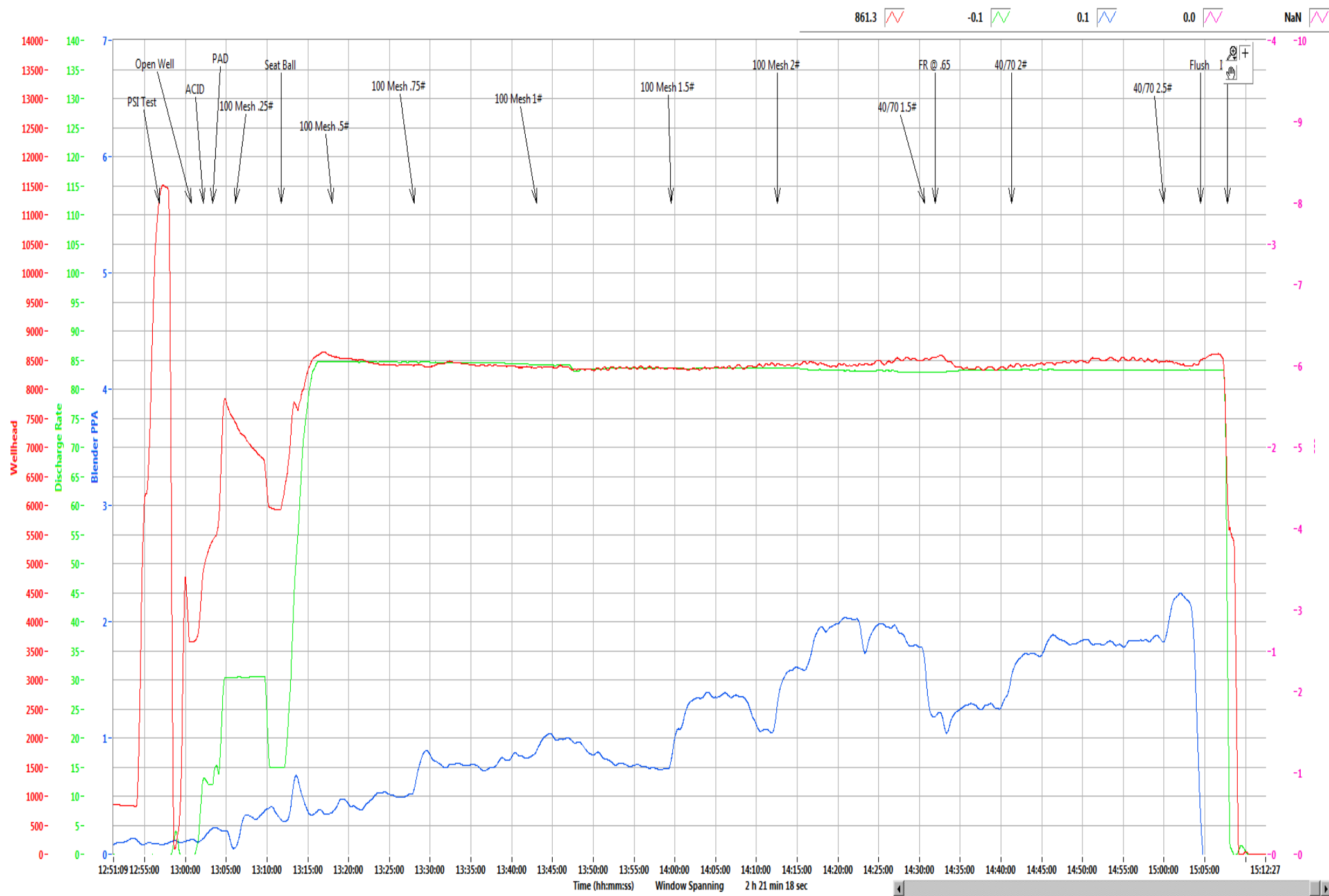
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron Control Acid	500	GAL	\$ 1.25	\$ 625.00
4N1 INHIBITOR	Inhibitor @ 2 gal/1000	1	GAL	\$ 35.00	\$ 35.00
ACID DELIVERY	Includes Chemicals	2	HR	\$ 100.00	\$ 200.00
SAND 80/100	80/100 white	3,006.80	CWT	\$ 5.50	\$ 16,537.40
SAND 40/70	40/70 white	1,999.20	CWT	\$ 5.75	\$ 11,495.40
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	197	GAL	\$ 17.75	\$ 3,496.75
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		250.3	TON	\$ 55.00	\$ 13,766.50
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,676.05
				25% Discount Applied	\$ 16,919.01
				Net Stage Total	\$ 50,757.04

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

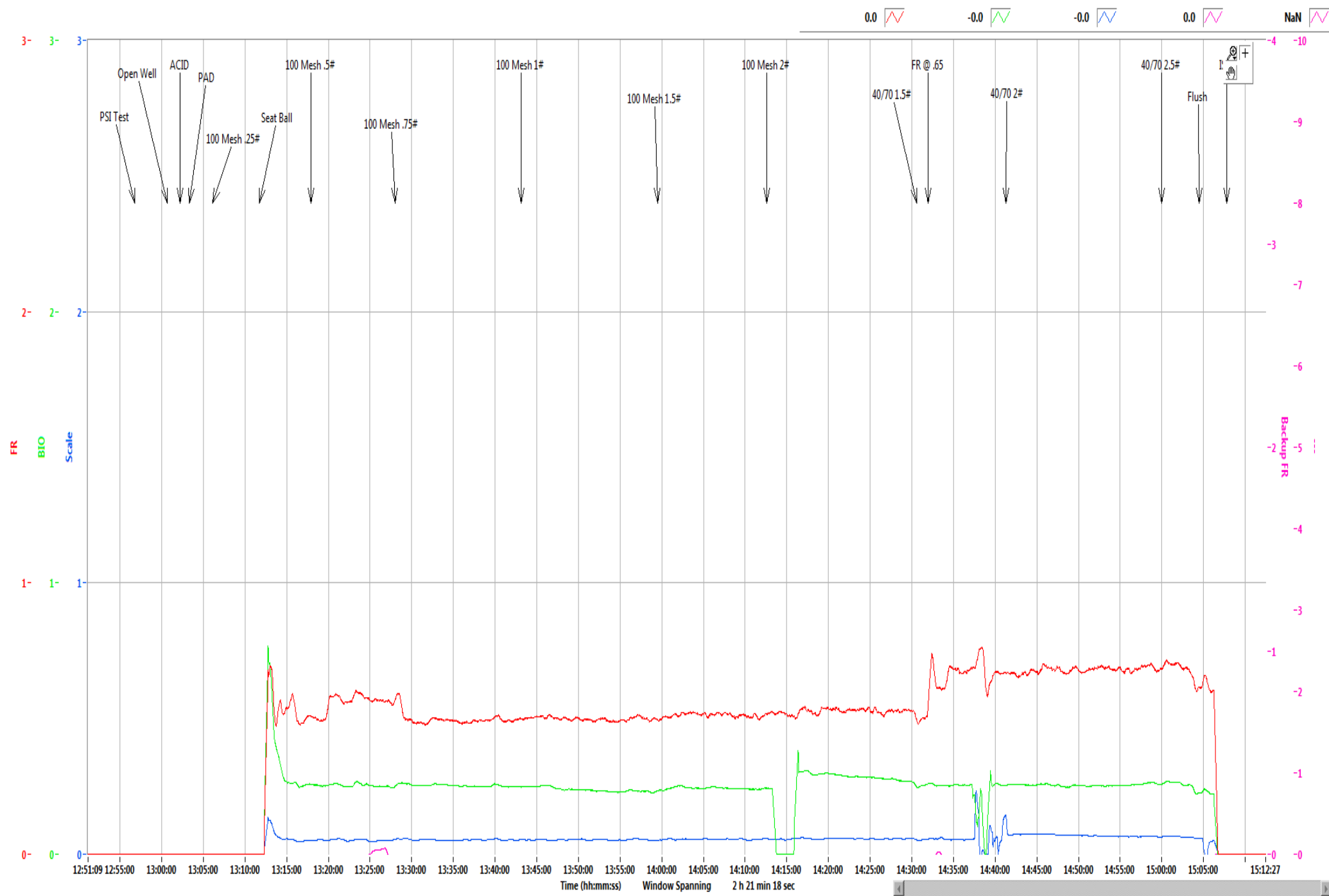


NNE
Boggess 17H
Stage 41
Producers Service Corp.

Post Stage Report
October 9, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	41
Date:	10/9/19
OWP (psi):	3,654
Starting Time	1:00 PM
Ending Time	3:07 PM
Pump Time (hr:min)	02:07
Swap Time (hr:min)	01:36
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,330
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,316
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,712
Displacement (psi)	8,518
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,604
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)	9,484
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	118
Pad (bbls)	70
Treatment (bbls)	9,164
Displacement (bbls)	262
(Acid Included) Total (bbls)	9,496
Dirty Job Total (bbls)	9,867
100 Mesh	299,760
40/70	199,060
Total Proppant (lbs)	498,820
Total Proppant %	99.8%

CHEMICALS

FR 9800	217
Biocide	101
Scale	20

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



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

Invoice #: 23879
 Date: 10/9/2019
 Well Name: Bogges '17H
 Stage No.: 41

State: WV
 County: Monongahela
 Operator: Jeremy/Jeremy/Mark
 PO/AFE: 100430

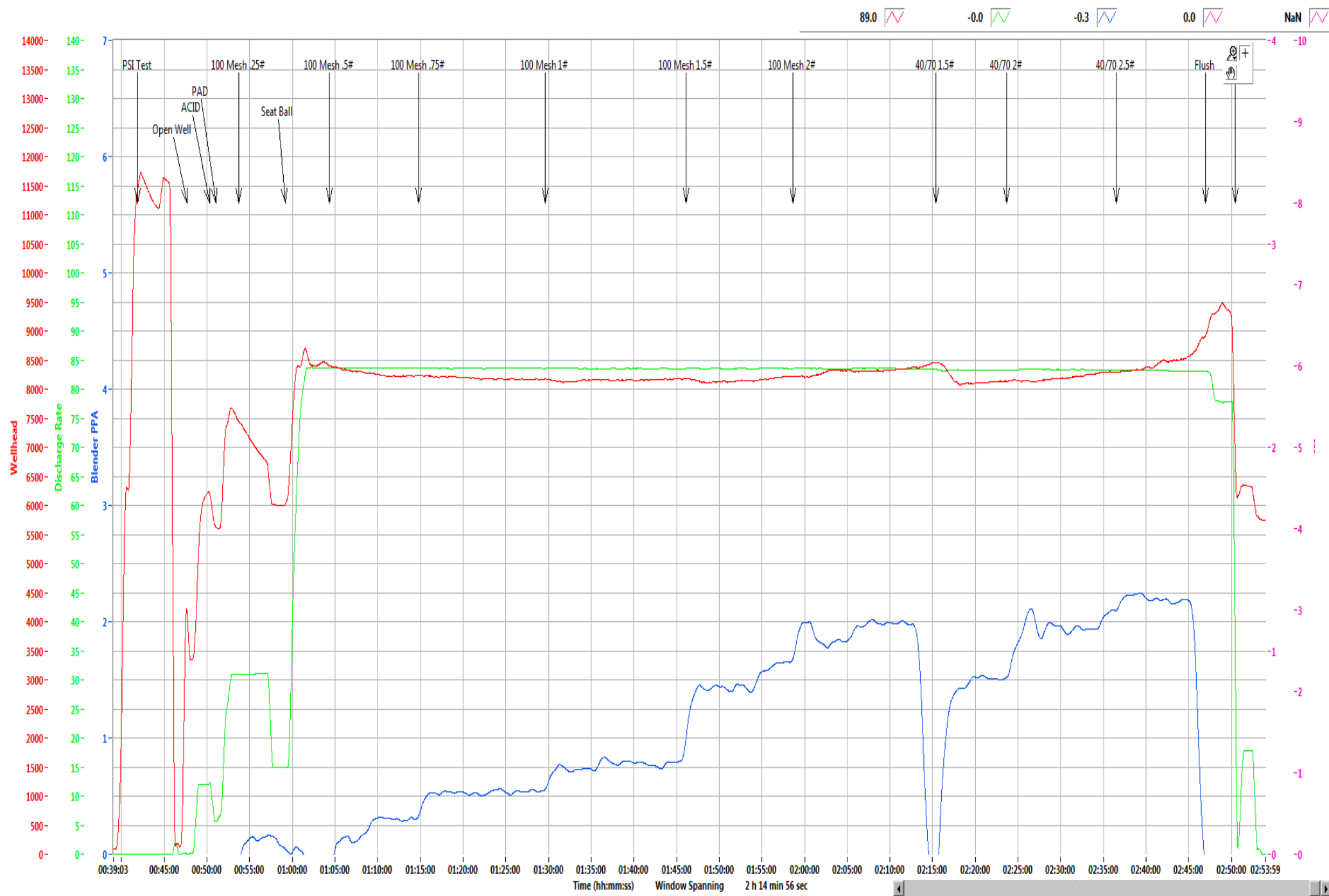
Description	Notes	Amount	Units of Sale	Unit Cost	Total Cost
FLUID PUMP CHARGE OVER 3000 PSI PER HHP PER HR	Fixed each stage @ 80 BPM max	1	EA	\$ 15,000.00	\$ 15,000.00
BLENDER CHARGE 80 BPM		1	EA	\$ 2,500.00	\$ 2,500.00
BLENDER CHARGE STAND BY BLENDER	NO CHARGE	0	EA	\$ 1,000.00	\$ -
HC ACID 7.5%	Iron 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	2,997.60	CWT	\$ 5.50	\$ 16,486.80
SAND 40/70	40/70 white	1,990.60	CWT	\$ 5.75	\$ 11,446.95
StimSTREAM FR 9800	Friction Reducer @ 0.5 GPT	217	GAL	\$ 17.75	\$ 3,851.75
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		249.41	TON	\$ 55.00	\$ 13,717.55
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,898.05
				25% Discount Applied	\$ 16,974.51
				Net Stage Total	\$ 50,923.54

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



NNE
Boggess 17H
Stage 42
Producers Service Corp.

Post Stage Report
October 10, 2019



89.0 -0.0 -0.3 0.0 NaN

Refresh Graph

Time (hh:mm:ss) Window Spanning 2 h 14 min 56 sec



Refresh Graph

Boggess Pad**17H**

Stage	42
Date:	10/10/19
OWP (psi):	3,358
Starting Time	12:47 AM
Ending Time	2:50 AM
Pump Time (hr:min)	02:03
Swap Time (hr:min)	00:40
Starting # Pumps	16
Finishing # Pumps	16
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,232
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,230
Maximum Treating Rate (bbl/min)	84
Maximum Treating Pressure (psi)	9,597
Displacement (psi)	8,995
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,106
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)	9,114
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	158
Pad (bbls)	59
Treatment (bbls)	8,807
Displacement (bbls)	254
(Acid Included) Total (bbls)	9,126
Dirty Job Total (bbls)	9,496
100 Mesh	300,280
40/70	202,860
Total Proppant (lbs)	503,140
Total Proppant %	100.6%

CHEMICALS

FR 9800	190
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 #: 23882
 Date: 10/10/2019
 Well Name: Boggess 17H
 Stage No.: 42

State: WV
 County: Monongahela
 Operator: Joe/Brad
 PO/AFE: 100430

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	3,002.80	CWT	\$ 5.50	\$ 16,515.40
SAND 40/70	40/70 white	2,028.60	CWT	\$ 5.75	\$ 11,664.45
StimSTREAM 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	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		251.57	TON	\$ 55.00	\$ 13,836.35
DIESEL FUEL	Not eligible for discount		GAL	\$ 3.04	\$ -
				Total No Discount	\$ 67,736.70
				25% Discount Applied	\$ 16,934.18
				Net Stage Total	\$ 50,802.53

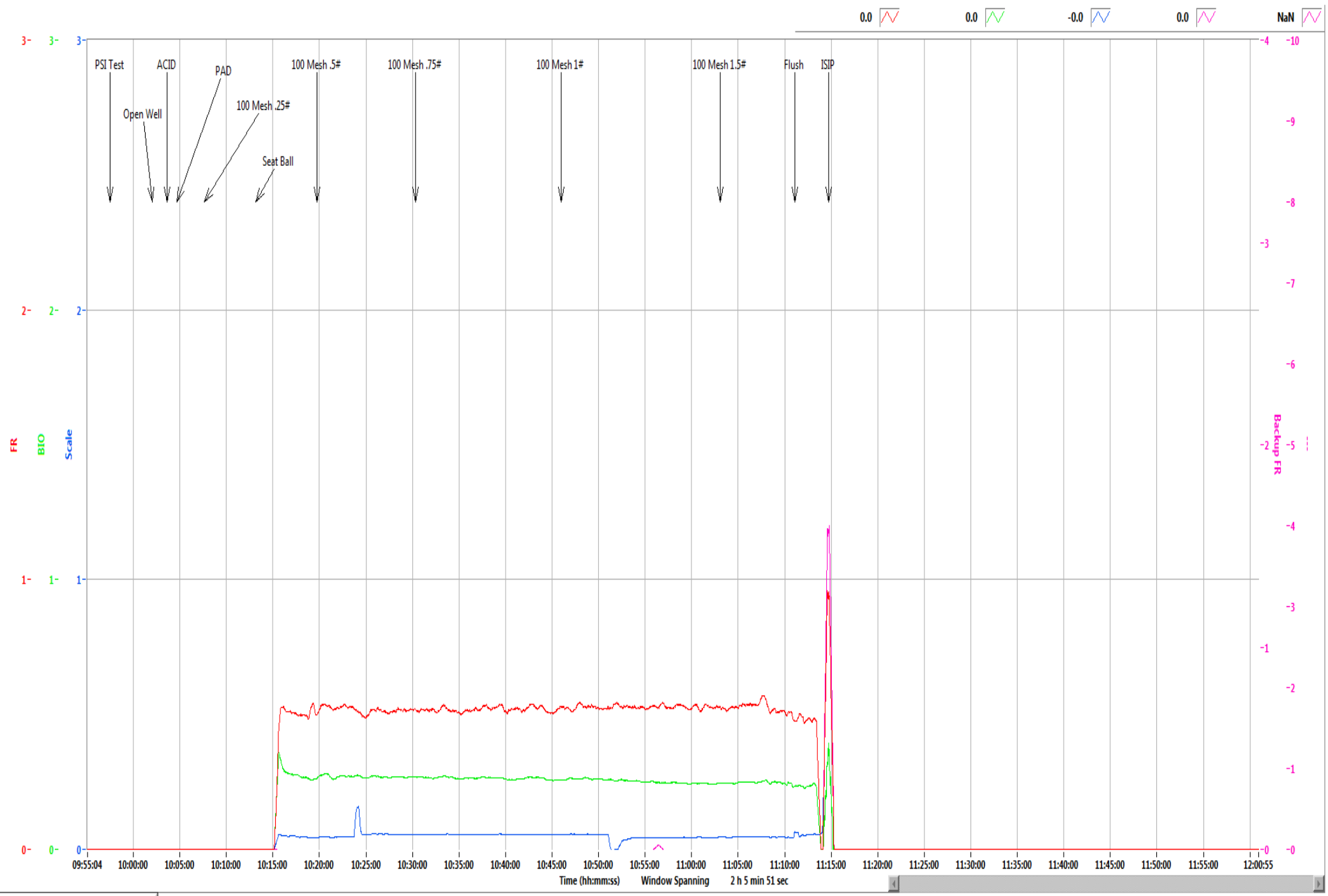
(Print Name) Boyd
 Customer Rep: _____

Customer Signature: [Signature]

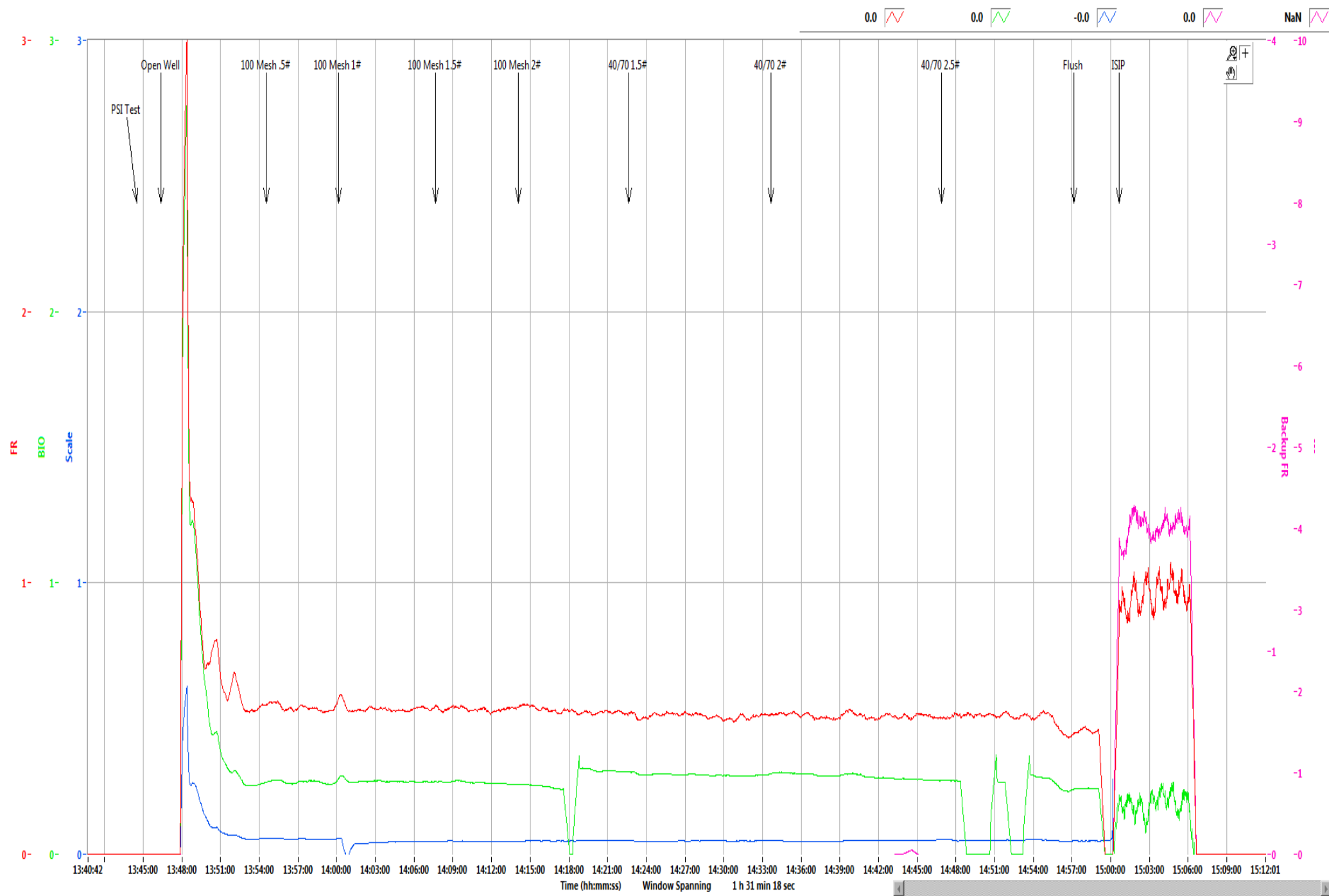


NNE
Boggess 17H
Stage 43
Producers Service Corp.

Post Stage Report
October 10, 2019



Refresh Graph



Refresh Graph

Boggess Pad**17H**

Stage	43
Date:	10/10/19
OWP (psi):	3,460
Starting Time	10:02 AM
Ending Time	3:00 PM
Pump Time (hr:min)	04:58
Swap Time (hr:min)	01:17
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

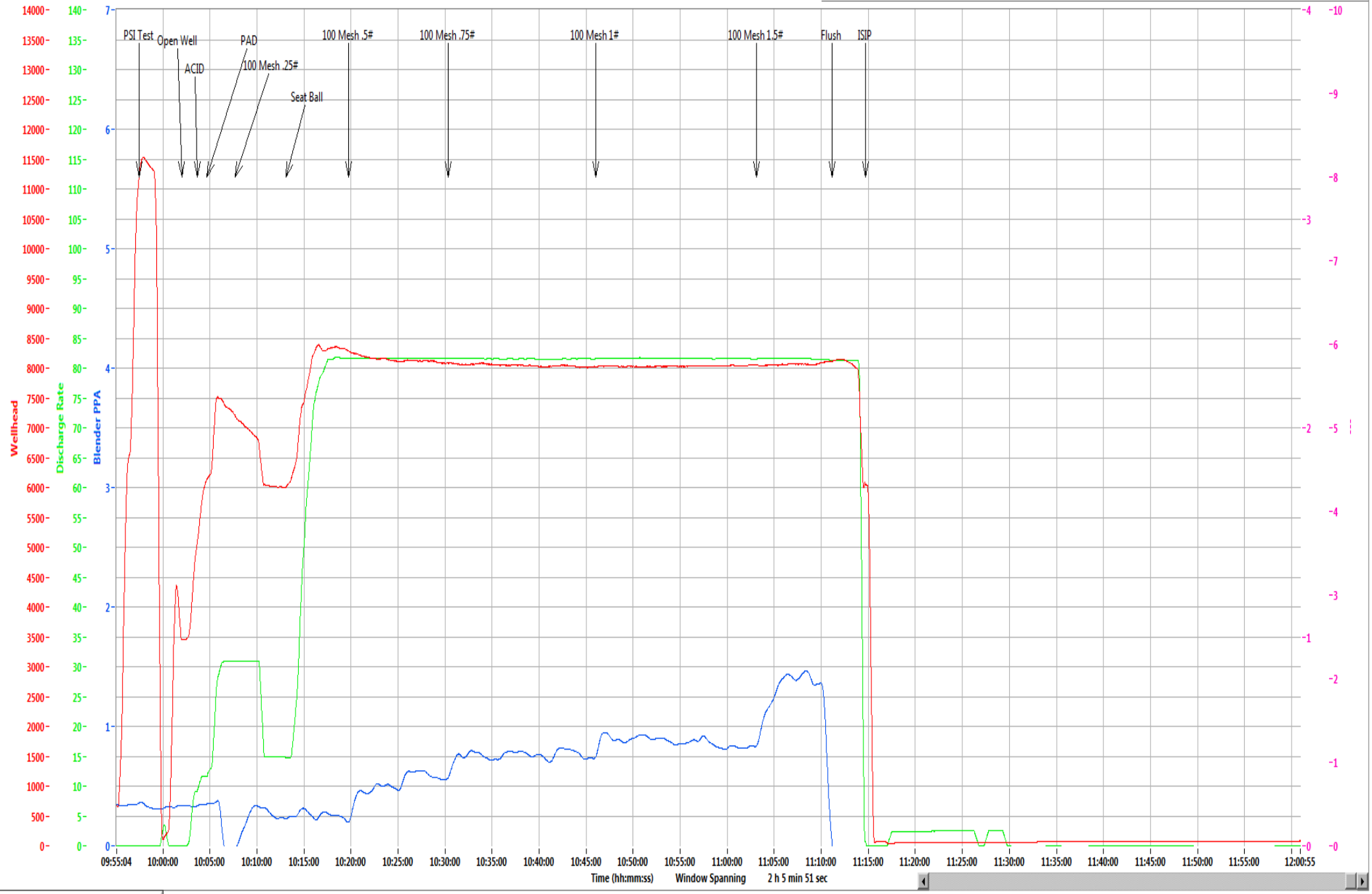
Breakdown Pressure (psi)	6,152
Average Treating Rate (bbl/min)	80
Average Treating Pressure (psi)	8,051
Maximum Treating Rate (bbl/min)	83
Maximum Treating Pressure (psi)	8,538
Displacement (psi)	8,306
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,387
Final FG (psi/ft)	1.23
5 Minute Leakoff Pressure (psi)	
5 Minute Leakoff Rate (psi/min)	
10 Minute Leakoff Pressure (psi)	
10 Minute Leakoff Rate (psi/min)	
15 Minute Leakoff Pressure (psi)	
15 Minute Leakoff Rate (psi/min)	

Fluids & Proppant

Slickwater (bbls)	10,483
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	168
Pad (bbls)	80
Treatment (bbls)	10,171
Displacement (bbls)	244
(Acid Included) Total (bbls)	10,495
Dirty Job Total (bbls)	10,878
100 Mesh	300,060
40/70	200,020
Total Proppant (lbs)	500,080
Total Proppant %	100.0%

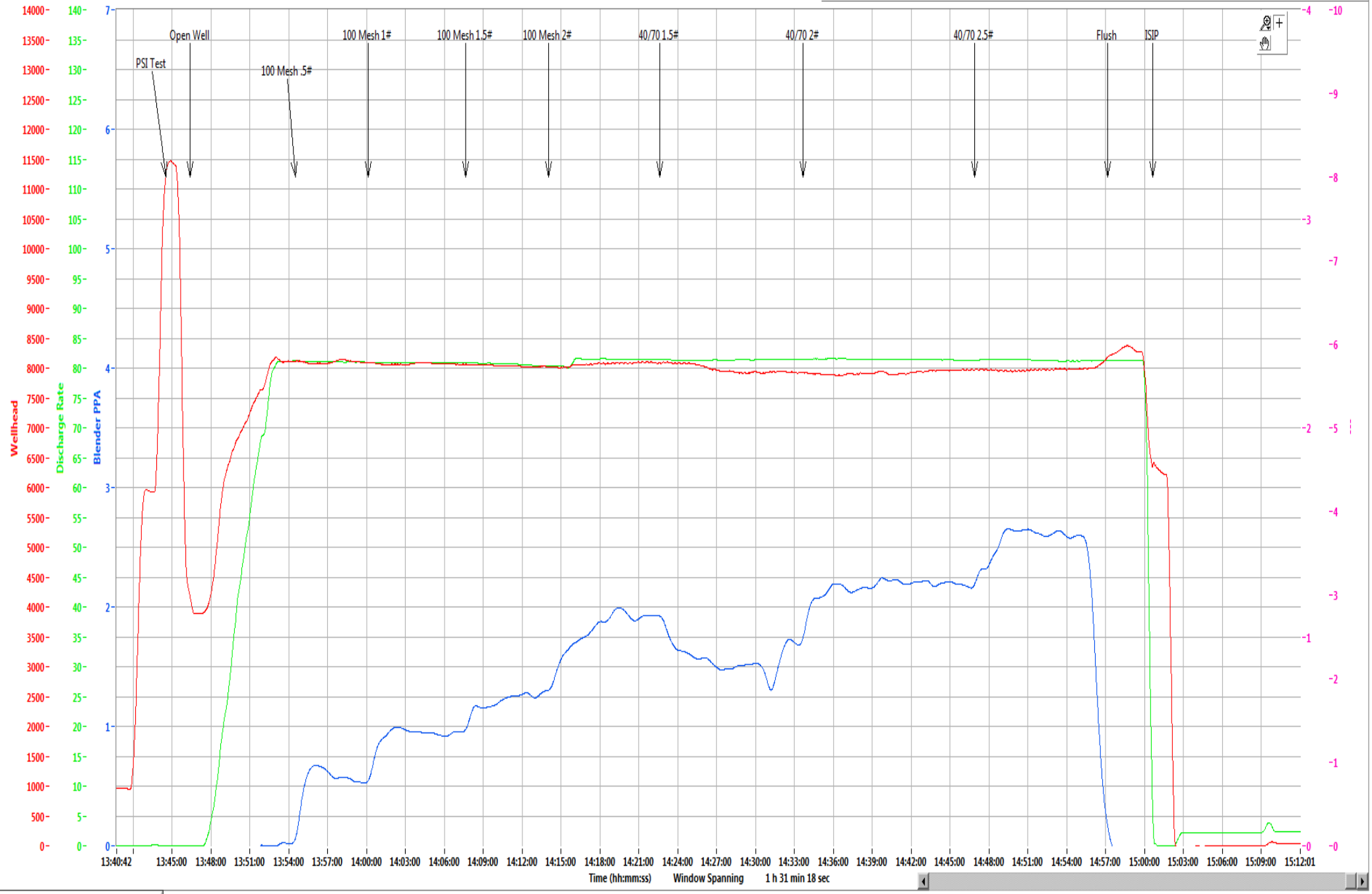
CHEMICALS

FR 9800	220
Biocide	110
Scale	22



Refresh Graph

970.9 -0.0 -0.4 0.0 NaN



Refresh Graph

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



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

Invoice #: 23884
 Date: 10/10/2019
 Well Name: Boggess 17H
 Stage No.: 43

State: WV
 County: Monongahela
 Operator: Jeremy/Mark/Stetson
 PO/AFE: 100430

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	3,000.60	CWT	\$ 5.50	\$ 16,503.30
SAND 40/70	40/70 white	2,000.20	CWT	\$ 5.75	\$ 11,501.15
SlimSTREAM 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		250.04	TON	\$ 55.00	\$ 13,752.20
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	\$ 67,139.65
				25% Discount Applied	\$ 16,784.91
				Net Stage Total	\$ 50,354.74

(Print Name)

Customer Rep: Rob Cowg

Customer Signature: [Signature]



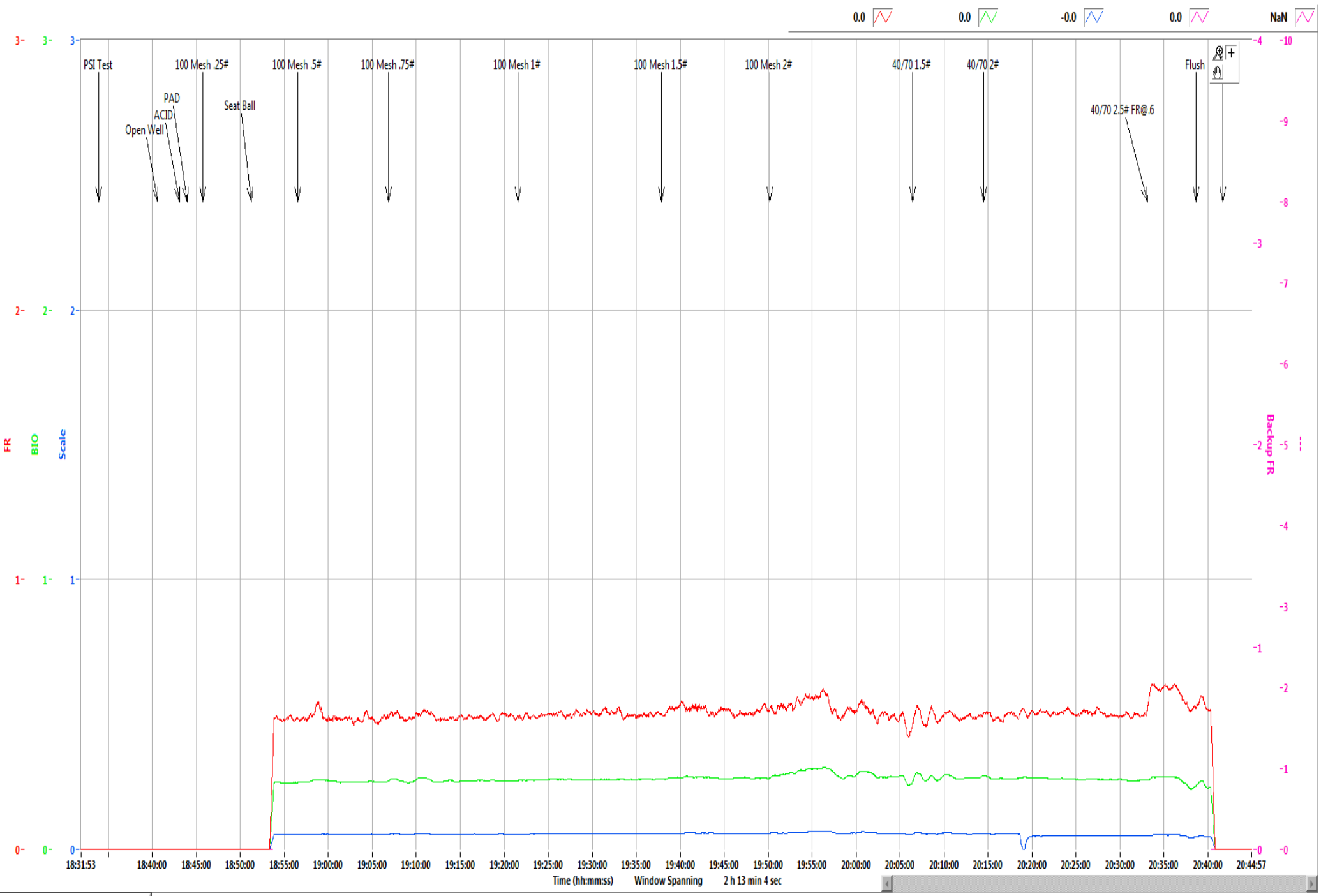
NNE
Boggess 17H
Stage 44
Producers Service Corp.

Post Stage Report
October 10, 2019

853.8 -0.1 -0.2 0.0 NaN



Refresh Graph



0.0 0.0 -0.0 0.0 NaN

Refresh Graph

Boggess Pad	17H
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Stage	44
Date:	10/10/19
OWP (psi):	3,734
Starting Time	6:40 PM
Ending Time	8:41 PM
Pump Time (hr:min)	02:01
Swap Time (hr:min)	01:00
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,489
Average Treating Rate (bbl/min)	84
Average Treating Pressure (psi)	8,264
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	8,883
Displacement (psi)	8,437
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	6,276
Final FG (psi/ft)	1.22
5 Minute Leakoff Pressure (psi)	
5 Minute Leakoff Rate (psi/min)	
10 Minute Leakoff Pressure (psi)	
10 Minute Leakoff Rate (psi/min)	
15 Minute Leakoff Pressure (psi)	
15 Minute Leakoff Rate (psi/min)	

Fluids & Proppant

Slickwater (bbls)	9,122
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	147
Pad (bbls)	44
Treatment (bbls)	8,855
Displacement (bbls)	230
(Acid Included) Total (bbls)	9,134
Dirty Job Total (bbls)	9,393
100 Mesh	300,020
40/70	199,320
Total Proppant (lbs)	499,340
Total Proppant %	99.9%

CHEMICALS

FR 9800	199
Biocide	94
Scale	23

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



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

Invoice #: 23886
Date: 10/10/2019
Well Name: Bogges's 17H
Stage No.: 44

State: WV
County: Monongahela
Operator: Joe/Eck
PO/AFE: 100430

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	1,993.20	CWT	\$ 5.75	\$ 11,460.90
SlimSTREAM 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		249.67	TON	\$ 55.00	\$ 13,731.85
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	\$ 67,076.85
				25% Discount Applied	\$ 16,769.21
				Net Stage Total	\$ 50,307.64

(Print Name)
Customer Rep:

Boyd

Customer Signature:

[Signature]



NNE
Boggess 17H
Stage 45
Producers Service Corp.

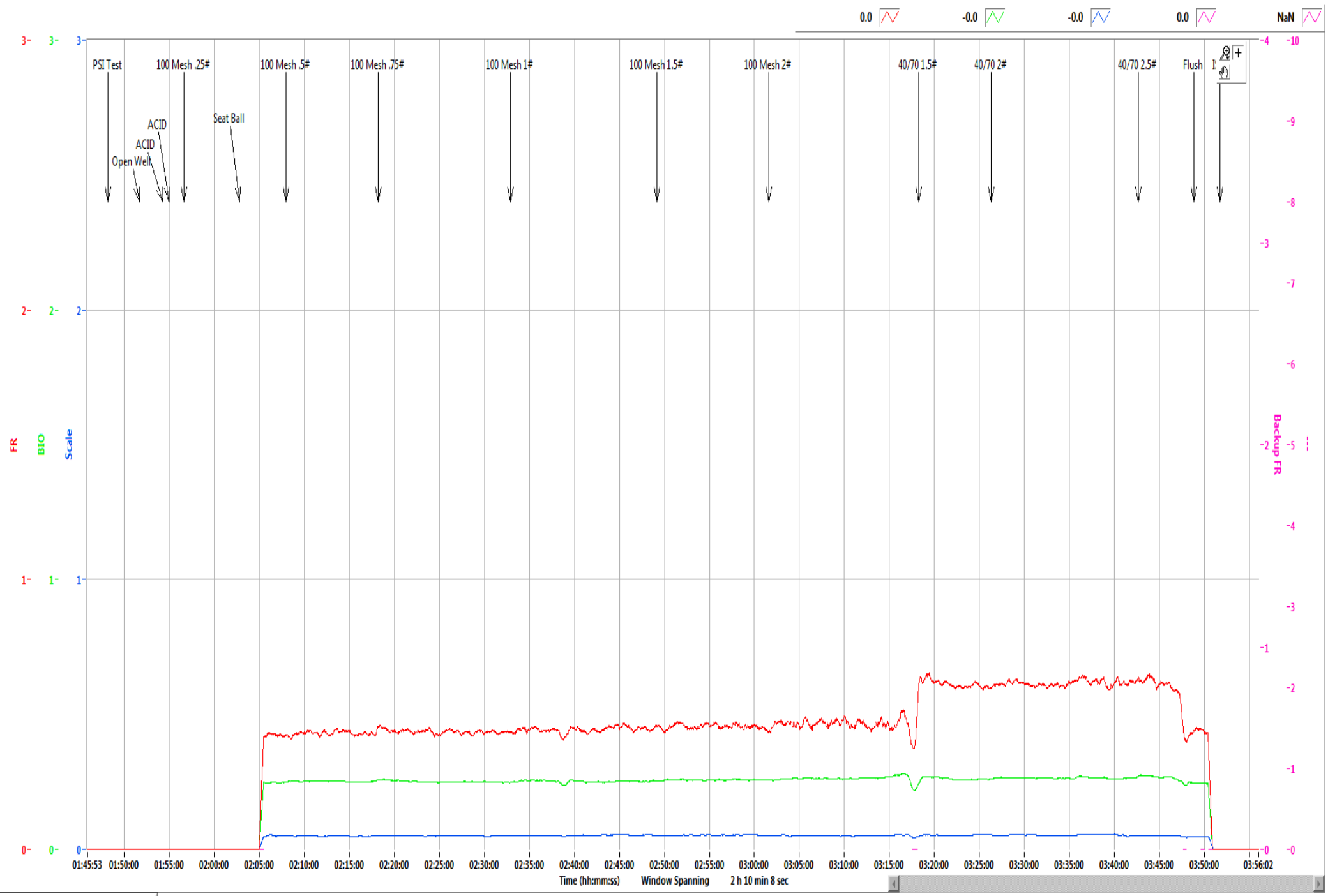
Post Stage Report
October 11, 2019



179.4 -0.0 -0.0 0.0 NaN

Refresh Graph

Time (hh:mm:ss) Window Spanning 2 h 10 min 8 sec



Refresh Graph

Boggess Pad**17H**

Stage	45
Date:	10/11/19
OWP (psi):	3,768
Starting Time	1:51 AM
Ending Time	3:51 AM
Pump Time (hr:min)	02:00
Swap Time (hr:min)	00:42
Starting # Pumps	17
Finishing # Pumps	17
TVD (ft)	8,020

Pressures & Rates

Breakdown Pressure (psi)	6,403
Average Treating Rate (bbl/min)	83
Average Treating Pressure (psi)	8,198
Maximum Treating Rate (bbl/min)	85
Maximum Treating Pressure (psi)	9,009
Displacement (psi)	8,119
Max Prop Con (lb/gal)	2.50
ShutDown ISIP (psi)	5,646
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)	9,051
Acid 7.5% HCL (gal)	500
Wireline Pump Down (bbls)	165
Pad (bbls)	37
Treatment (bbls)	8,793
Displacement (bbls)	226
(Acid Included) Total (bbls)	9,063
Dirty Job Total (bbls)	9,202
100 Mesh	300,140
40/70	200,200
Total Proppant (lbs)	500,340
Total Proppant %	100.1%

CHEMICALS

FR 9800	192
Biocide	92
Scale	23

