



March 20, 2015

Petroleum Branch  
360 -1395 Ellice Avenue  
Winnipeg, Manitoba  
R3G 3P2

Attn: Leo Leonen

**Re: South Pierson Unit No. 1 2015 Waterflood Progress Report**

Please find the attached 2015 Waterflood Progress Report for South Pierson Unit No.1.

If you have any questions or concerns, please contact the undersigned at (403) 514-7807.

Yours truly,

Eric Tang, P.Eng.  
Exploitation Engineer  
Canadian Natural Resources Ltd.

**Canadian Natural Resources**

Suite 2500, 855 – 2 Street SW Calgary, Alberta, Canada T2P 4J8 T 403.517.6700 F 403.517.7350 [www.cnrl.com](http://www.cnrl.com)

## **South Pierson Unit No. 1 2015 Waterflood Progress Report**

### Section 1

a) Refer to attachments for production rate, injection rate, GOR and WORs for pool and patterns.

b) Refer to attachments for cumulative volumes of oil, gas, and water produced and injected fluids for the patterns and injected fluids.

c) Refer to attachments for wellhead injection pressures for each injection well.

d) There was no reservoir pressure surveys conducted to report for the 2015 calendar year within SPU #1.

e) Refer to attachments for South Pierson Unit # 1 well servicing summaries.

f) Refer to attachments for VRRs and Cum VRRs for the patterns and pool.

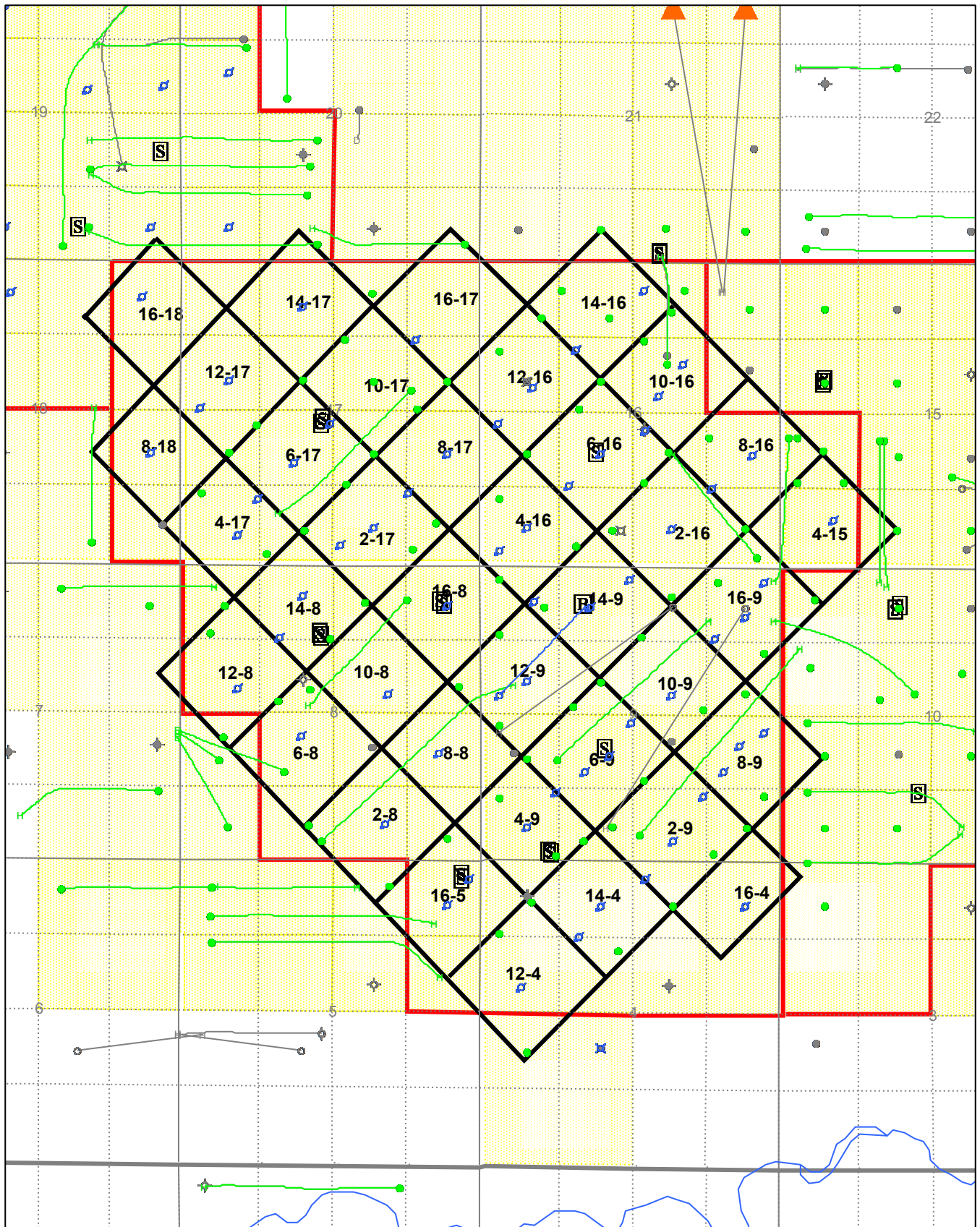
g) Produced water and source water is currently being filtered utilizing a bag-type filtration system prior to injection into Unit 1.

h) In April 2013, CNRL finished the installation of a water filtration system and put the new system online and began injecting filtered water into Unit 1 and Unit 2. After some operation issues with the water filtration system, the produced water was deemed unfeasible to treat with the filtration system, CNRL decided it would be best to shut in Unit 2 injection and filter the produced water with a bag type filtration system until a solution to the water filtration requirements had been implemented. CNRL began utilizing a conventional bag-type system, which is working well. Injection rates have increased in the Unit since a number of clean outs and workovers on injection wells had been completed.

i) There have been no other changes to the expected recovery for the Unit since the last report. CNRL is trying to improve the injectivity into the Spearfish formation, and conducted a number of workovers on injection wells and converted some wells to injectors in order to improve the injection rates in the Unit and to improve the effectiveness of the waterflood. CNRL drilled 2 horizontal infill producers within the unit in 2014. Four vertical wells were converted to injection wells in Unit 1 offsetting the 104/05-09-002-29W1 horizontal well to improve pressure maintenance. CNRL will continue to evaluate infill drilling opportunities within SPU 1 as there could be potential for more infill drilling within the unit.

## **List of Appendices**

1. Map of Unit 1 Patterns
2. Group Plot of Unit Production, Injection, Ratios and VRRs
3. Group Plot of Unit Cumulative Production, Injection
4. Tabular Data of Unit Production, Injection, Ratios and VRRs
5. List of Well Servicing Activity
6. Pattern Production, Injection, Ratios and VRRs
7. Pattern Cumulative Production, Injection
8. Tabular Data of Pattern Production, Injection, Ratios and VRRs
9. Injection Well Plots of Daily Rates and Pressures
10. Tabular Data of Injection Well Rates and Pressures

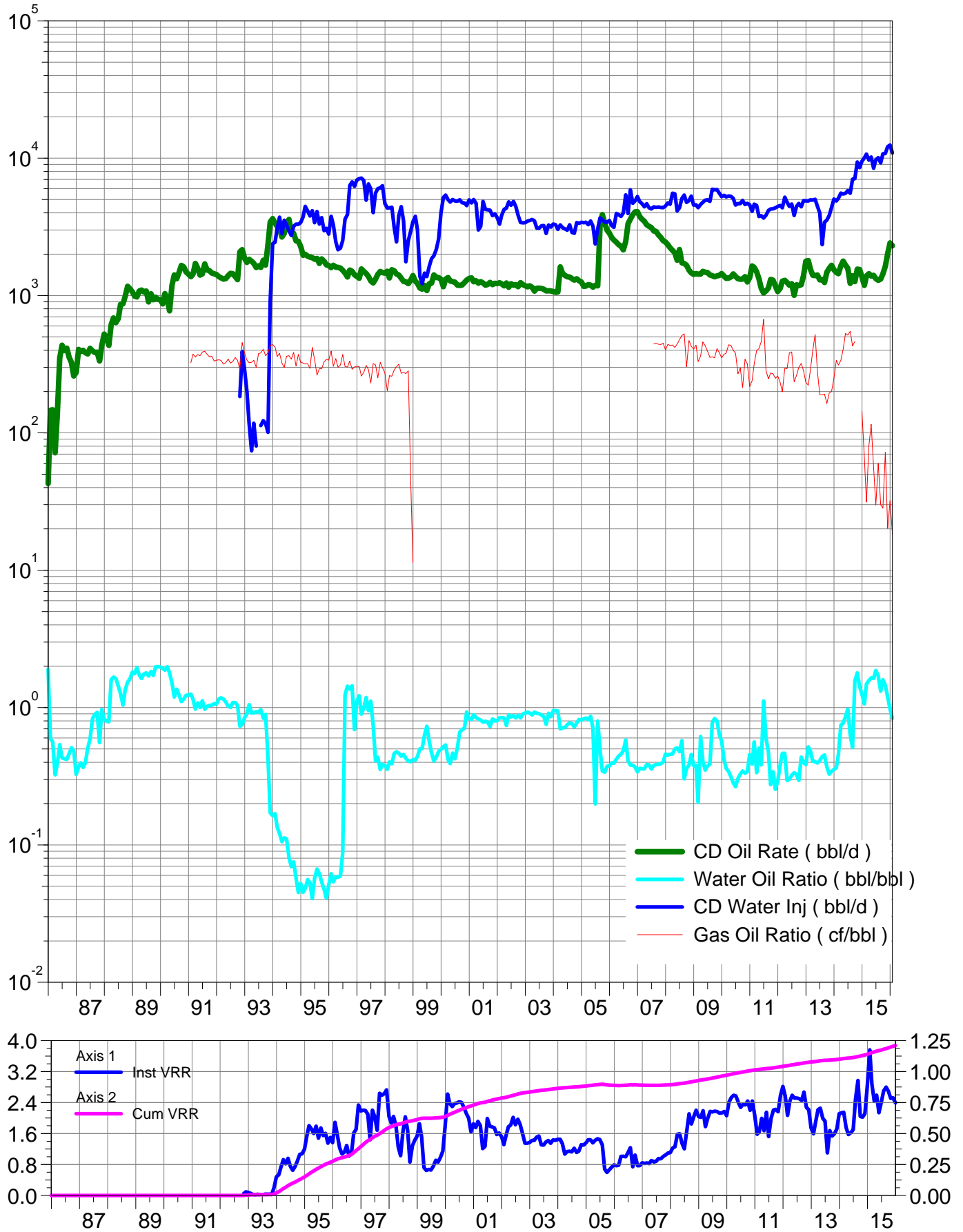


Datum: NAD27 Projection: Stereographic DLS Version AB: ATS 2.6, BC: PRB 2.0, SK: STS 2.5, MB: MLI07



# South Pierson Unit No. 1 Overall Calendar Day Production

Cumulative Oil Prod : 16510.69 Mbbbl



# Pattern: (41) Set: PIERSON UNIT

Axis 1 Pattern: (41) Set: PIERSON UNIT

Cumulative Oil Prod ( Mbbl )

Cumulative Liquid Prod ( Mbbl )

Cumulative Water Prod ( Mbbl )

Cumulative Water Inj ( Mbbl )

Axis 2

Cumulative Gas Prod ( MMcf )

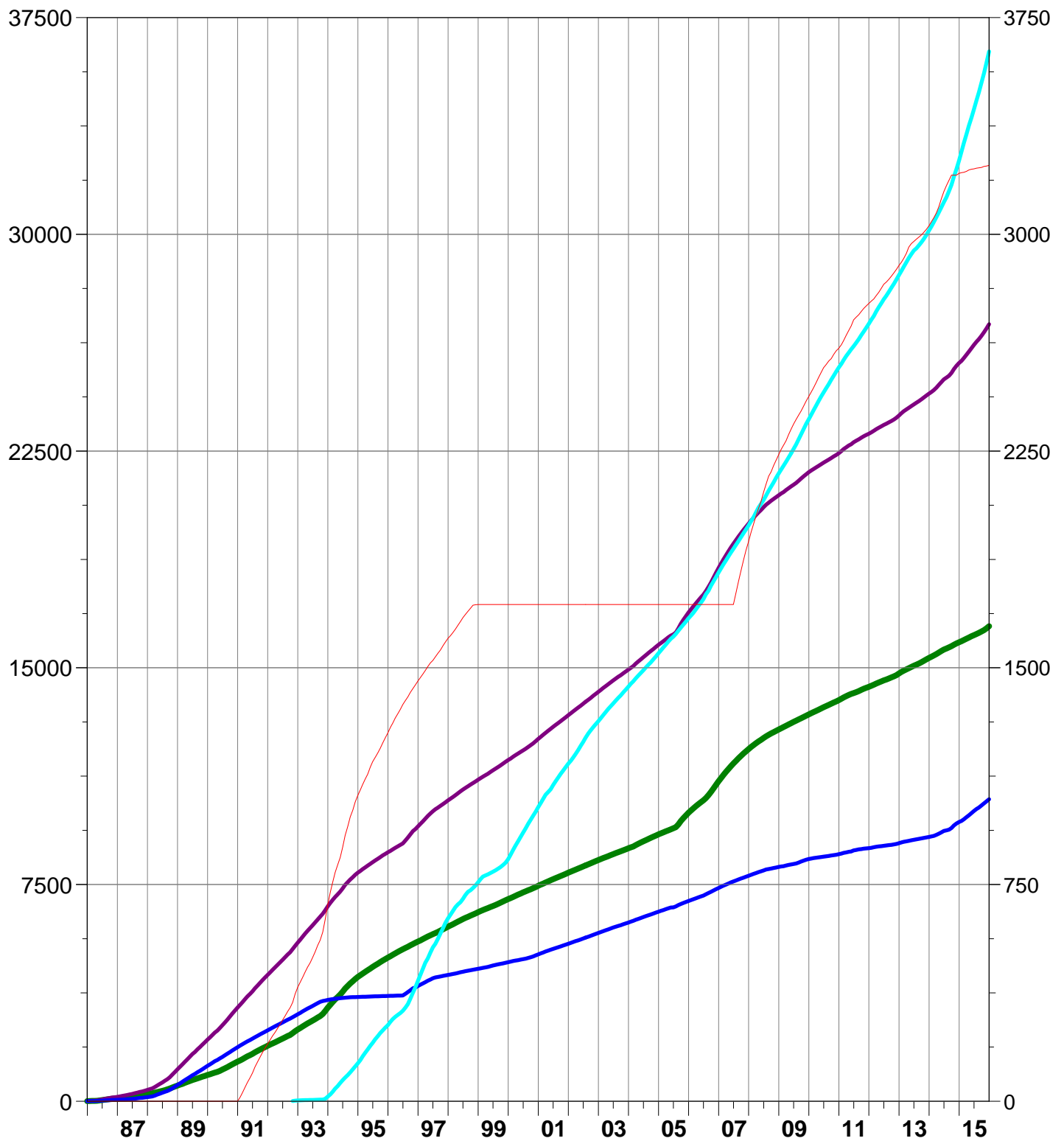
Cumulative Oil Prod : 14801.59 Mbbl

Cumulative Liquid Prod : 23728.97 Mbbl

Cumulative Water Prod : 8927.38 Mbbl

Cumulative Water Inj : 28587.65 Mbbl

Cumulative Gas Prod : 2891.78 MMcf



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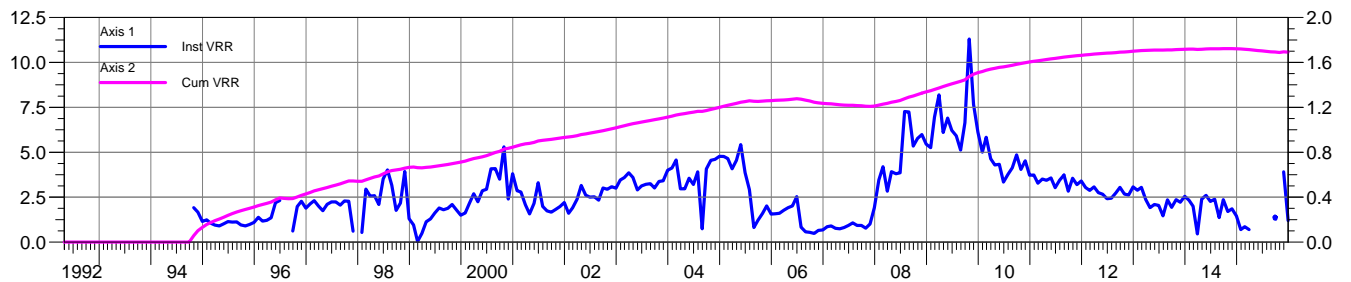
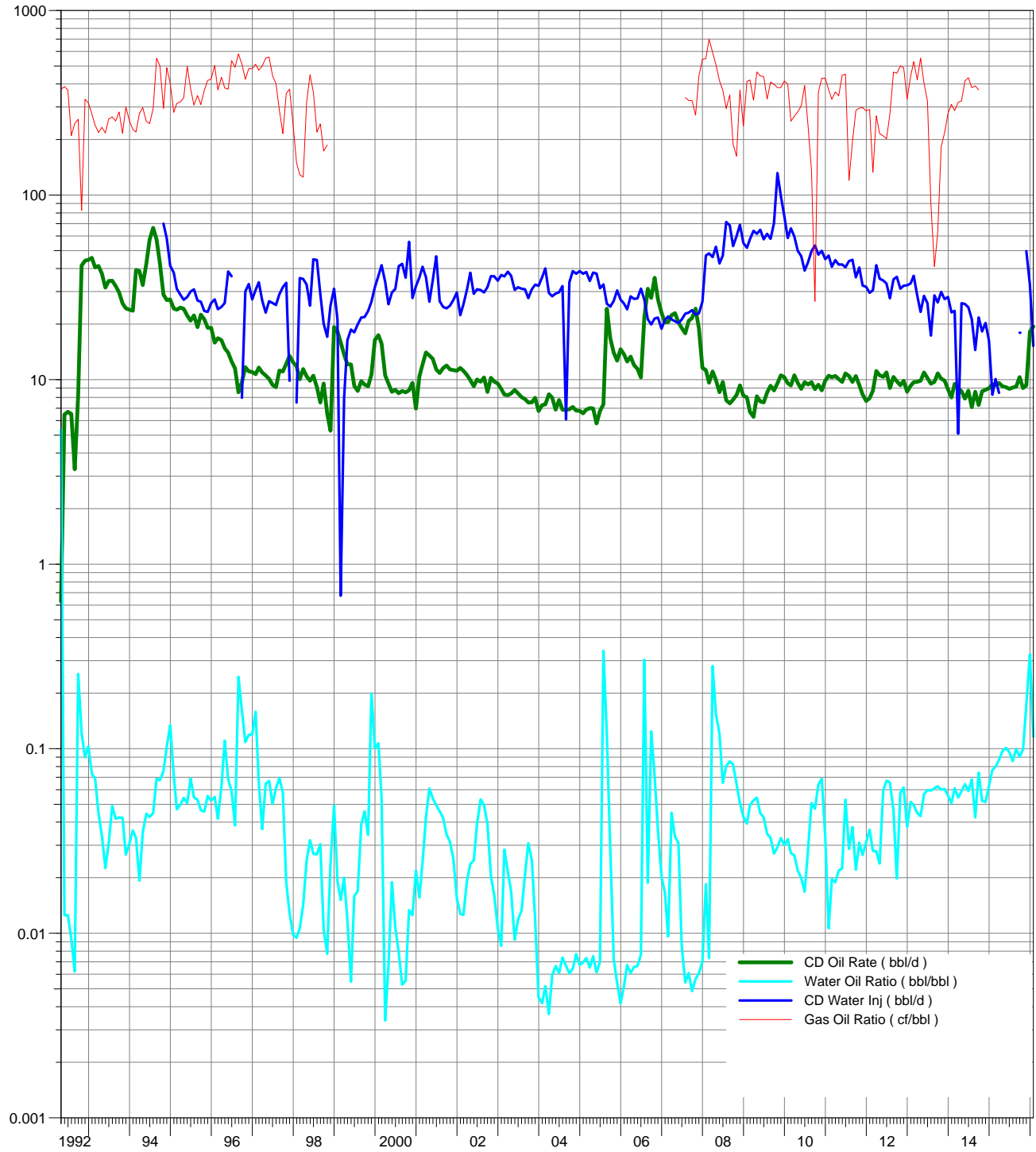
Well Name	Unit	Job Typ	Job Start Date	Total Fld Est (Cost)
S. PIERSON UNIT NO. 1 PROV. 1-8-2-29	SPU1	Stimulation	11/18/2015	14,122.34
SOUTH PIERSON UNIT NO.1 1-9-2-29	SPU1	Stimulation	10/6/2015	13,542.50
CNRL PIERSON UNIT 1-16-2-29	SPU1	Stimulation	12/1/2015	13,759.50
SOUTH PIERSON UNIT NO.1 1-17-2-29	SPU1	Stimulation	10/26/2015	13,769.00
SOUTH PIERSON UNIT NO 1 PROV 1-18-2-29	SPU1	Stimulation	10/23/2015	13,756.25
HOME S. PIERSON UNIT NO1 2-9-2-29	SPU1	Pressure Build-up/Survey	8/14/2015	2,866.50
S. PIERSON UNIT NO.1 PROV 3-8-2-29	SPU1	Stimulation	12/19/2015	13,719.00
HOME S PIERSON UNIT NO 1 3-9-2-29	SPU1	Stimulation	10/6/2015	10,152.72
CNRL PIERSON UNIT 3-17-2-29	SPU1	Stimulation	8/10/2015	14,268.91
CNRL PIERSON UNIT 5-15-2-29	SPU1	Stimulation	10/24/2015	15,889.46
HOME S. PIERSON UNIT NO. 1 5-16-2-29	SPU1	Stimulation	11/27/2015	13,377.58
CNRL S. PIERSON UNIT NO.1 5-17-2-29	SPU1	Stimulation	12/14/2015	12,298.96
HOME PIERSON UNIT NO.1 PROV 7-8-2-29	SPU1	Stimulation	12/19/2015	12,328.00
HOME S. PIERSON UNIT NO. 1 7-16-2-29	SPU1	Stimulation	11/23/2015	13,558.00
CNRL PIERSON 7-30-2-29 (WPM)	SPU1	Pressure Build-up/Survey	8/10/2015	2,828.10
HOME PIERSON UNIT NO. 1 1-9-8-2-29	SPU1	Stimulation	11/20/2015	12,279.96
CNRL S. PIERSON UNIT NO. 1 9-9-2-29	SPU1	Stimulation	12/17/2015	12,298.96
CNRL S. PIERSON UNIT 1 WIW 10-8-2-29	SPU1	Pressure Build-up/Survey	8/12/2015	2,866.50
HOME S. PIERSON UNIT NO1 10-9-2-29	SPU1	Wellhead Repair	8/8/2015	16,385.90
CNRL PIERSON UNIT 10-17-2-29	SPU1	Suspension	6/16/2015	15,024.25
HOME S. PIERSON NO.1 PROV 11-16-2-29	SPU1	Stimulation	11/20/2015	12,449.84
CNRL S. PIERSON UNIT NO. 1 11-17-2-29	SPU1	Stimulation	12/15/2015	12,219.46
CNRL PIERSON 11-19-2-29	SPU1	Pressure Build-up/Survey	8/10/2015	2,866.50
HOME S. PIERSON UNIT NO1 12-4-2-29	SPU1	Wellhead Repair	8/9/2015	13,788.80
HOME S. PIERSON UNIT NO1 12-9-2-29	SPU1	Pressure Build-up/Survey	8/14/2015	3,017.50
HOME S. PIERSON UNIT NO1 12-9-2-29	SPU1	Conversion	10/1/2015	#####
CNRL S PIERSON UNIT 1 13-8-2-29	SPU1	Stimulation	12/23/2015	10,419.46
CNRL PIERSON UNIT NO.1 13-16-2-29	SPU1	Stimulation	11/27/2015	13,358.50
CNRL PIERSON 13-30-2-29 (WPM)	SPU1	Stimulation	12/17/2015	16,993.50
CNRL PIERSON PROV 14-18-2-29	SPU1	Pressure Build-up/Survey	8/11/2015	2,866.50
CNRL SOUTH PIERSON UNIT NO 1 PROV 100/15-4-2-29	SPU1	Stimulation	11/19/2015	13,470.00
CNRL S. PIERSON UNIT NO.1 15-8-2-29	SPU1	Stimulation	11/20/2015	11,907.50
HOME S. PIERSON UNIT 1 15-16-2-29	SPU1	Stimulation	11/21/2015	14,048.00
SOUTH PIERSON UNIT NO. 1 15-17-2-29	SPU1	Stimulation	12/9/2015	8,161.00
SOUTH PIERSON UNIT NO 1 A1-9-2-29	SPU1	Stimulation	11/13/2015	13,409.50
CNRL SOUTH PIERSON UNIT NO 1 A5-9-2-29	SPU1	Stimulation	11/16/2015	14,516.50
CNRL SOUTH PIERSON UNIT NO 1 A5-9-2-29	SPU1	Pump Repair	11/20/2015	12,301.19
SOUTH PIERSON UNIT 1 A5-15-2-29	SPU1	Stimulation	10/27/2015	13,760.50
SOUTH PIERSON UNIT NO.1 PROV DIR A6-8-2-29 (WPM)	SPU1	Stimulation	11/16/2015	18,134.30
CNRL SOUTH PIERSON UNIT NO 1 PROV. A8-16-2-29	SPU1	Stimulation	11/23/2015	13,023.94
SOUTH PIERSON UNIT NO. 1 A9-9-2-29	SPU1	Stimulation	11/19/2015	12,150.34
CNRL S PIERSON UNIT NO.1 A11-8-2-29	SPU1	Stimulation	12/21/2015	13,655.25
SOUTH PIERSON UNIT NO 1 PROV A13-4-2-29	SPU1	Stimulation	12/18/2015	13,649.00
SOUTH PIERSON UNIT NO 1 A13-8-2-29	SPU1	Stimulation	12/23/2015	13,553.75
CNRL SOUTH PIERSON UNIT NO 1 A13-9-2-29	SPU1	Stimulation	11/12/2015	11,956.00
SOUTH PIERSON UNIT NO 1 PROV A13-16-2-29	SPU1	Stimulation	11/24/2015	12,507.20
SOUTH PIERSON UNIT NO 1 PROV A13-16-2-29	SPU1	Pump Repair	12/10/2015	30,183.67
SOUTH PIERSON UNIT NO 1 PROV A15-16-2-29	SPU1	Wax Removal	5/25/2015	7,558.30
SOUTH PIERSON UNIT NO 1 PROV A15-16-2-29	SPU1	Pump Repair	11/1/2015	31,366.36
SOUTH PIERSON UNIT NO. 1 HZNTL 2-9-2-29	SPU1	Clean-out	1/5/2015	#####
SOUTH PIERSON UNIT NO. 1 PROV. B3-16-2-29	SPU1	Stimulation	11/12/2015	13,656.72
SOUTH PIERSON UNIT NO 1 B5-15-2-29	SPU1	Stimulation	10/6/2015	12,121.25
SOUTH PIERSON UNIT NO 1 B5-15-2-29	SPU1	Pump Repair	10/16/2015	12,555.28
SOUTH PIERSON UNIT NO 1 B11-8-2-29	SPU1	Stimulation	10/21/2015	13,951.00
SOUTH PIERSON UNIT NO. 1 HZNTL 5-9-2-29	SPU1	Pump Repair	11/24/2015	13,859.94
CNRL SOUTH PIERSON UNIT NO. 1 4A-9-2-29W1	SPU1	Pump Repair	12/8/2015	33,097.81
CNRL SOUTH PIERSON UNIT NO 1 10A-9-2-29	SPU1	Stimulation	11/10/2015	12,588.46
CNRL SOUTH PIERSON UNIT NO 1 1B-9-2-29W1	SPU1	Stimulation	8/11/2015	13,919.47
CNRL SOUTH PIERSON UNIT NO 1 1B-17-2-29	SPU1	Stimulation	10/29/2015	13,699.00
CNRL SOUTH PIERSON UNIT NO 1 2B-17-2-29	SPU1	Packer Repair	7/31/2015	56,197.81



SOUTH PIERSON UNIT NO 1 3B-9-2-29	SPU1	Stimulation	11/13/2015	14,050.18
SOUTH PIERSON UNIT NO 1 5B-15-2-29	SPU1	Stimulation	8/10/2015	11,735.16
CNRL SOUTH PIERSON UNIT NO 1 PROV 6B-16-2-29	SPU1	Pressure Build-up/Survey	8/13/2015	2,866.50
CNRL SOUTH PIERSON UNIT NO 1 7B-9-2-29	SPU1	Stimulation	11/10/2015	13,461.50
SOUTH PIERSON UNIT NO 1 7B-17-2-29	SPU1	Stimulation	10/7/2015	12,104.96
CNRL SOUTH PIERSON UNIT NO. 1 PROV. 8B-16-2-29	SPU1	Pressure Build-up/Survey	8/13/2015	2,866.50
SOUTH PIERSON UNIT NO 1 PROV 11B-16-2-29	SPU1	Stimulation	10/27/2015	12,518.46
SOUTH PIERSON UNIT NO 1 13B-4-2-29	SPU1	Stimulation	12/18/2015	12,658.46
CNRL SOUTH PIERSON UNIT NO. 1 13B-9-2-29	SPU1	Stimulation	10/1/2015	14,162.87
SOUTH PIERSON UNIT NO 1 PROV 15B-16-2-29	SPU1	Pump Repair	8/26/2015	15,709.07
SOUTH PIERSON UNIT NO 1 PROV 15B-16-2-29	SPU1	Stimulation	11/22/2015	13,882.84
SOUTH PIERSON UNIT NO 1 15B-17-2-29	SPU1	Stimulation	12/10/2015	13,409.50
CNRL SOUTH PIERSON UNIT NO. 1 4C-9-2-29	SPU1	Stimulation	11/14/2015	13,400.00
CNRL SOUTH PIERSON UNIT NO 1 PROV 4C-16-2-29	SPU1	Tubing Repair	8/31/2015	29,060.25
CNRL SOUTH PIERSON UNIT NO 1 PROV 4C-16-2-29	SPU1	Stimulation	10/23/2015	12,191.22
SOUTH PIERSON UNIT NO 1 4C-17-2-29	SPU1	Stimulation	12/14/2015	13,579.00
CNRL SOUTH PIERSON UNIT NO 1 5C-9-2-29	SPU1	Stimulation	10/7/2015	13,373.00
SOUTH PIERSON UNIT NO 1 PROV 12C-16-2-29	SPU1	Stimulation	11/24/2015	13,787.00
SOUTH PIERSON UNIT NO 1 13C-9-2-29	SPU1	Stimulation	8/12/2015	18,028.39
SOUTH PIERSON UNIT NO 1 13C-9-2-29	SPU1	Pump Repair	8/21/2015	12,482.59
SOUTH PIERSON UNIT NO 1 13C-9-2-29	SPU1	Pump Repair	9/28/2015	18,033.26
SOUTH PIERSON UNIT NO 1 13C-9-2-29	SPU1	Pump Repair	10/17/2015	26,643.99
CNRL SOUTH PIERSON UNIT NO 1 16C-9-2-29	SPU1	Stimulation	11/22/2015	12,289.46
SOUTH PIERSON UNIT NO 1 2D-17-2-29	SPU1	Pressure Build-up/Survey	8/11/2015	2,866.50
SOUTH PIERSON UNIT NO 1 5D-17-2-29	SPU1	Stimulation	12/15/2015	13,439.00
SOUTH PIERSON UNIT NO 1 PROV 11D-4-2-29 (WPM)	SPU1	Stimulation	11/14/2015	13,659.92
SOUTH PIERSON UNIT NO 1 PROV 16D-5-2-29	SPU1	Pressure Build-up/Survey	8/12/2015	2,866.50

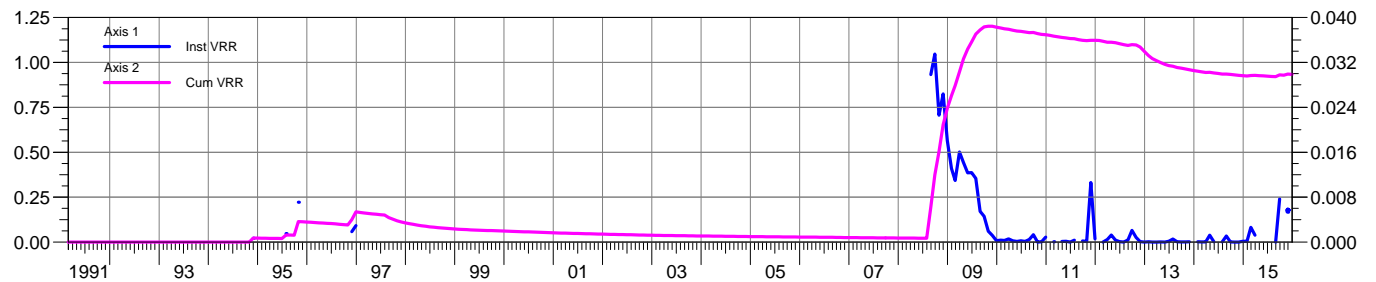
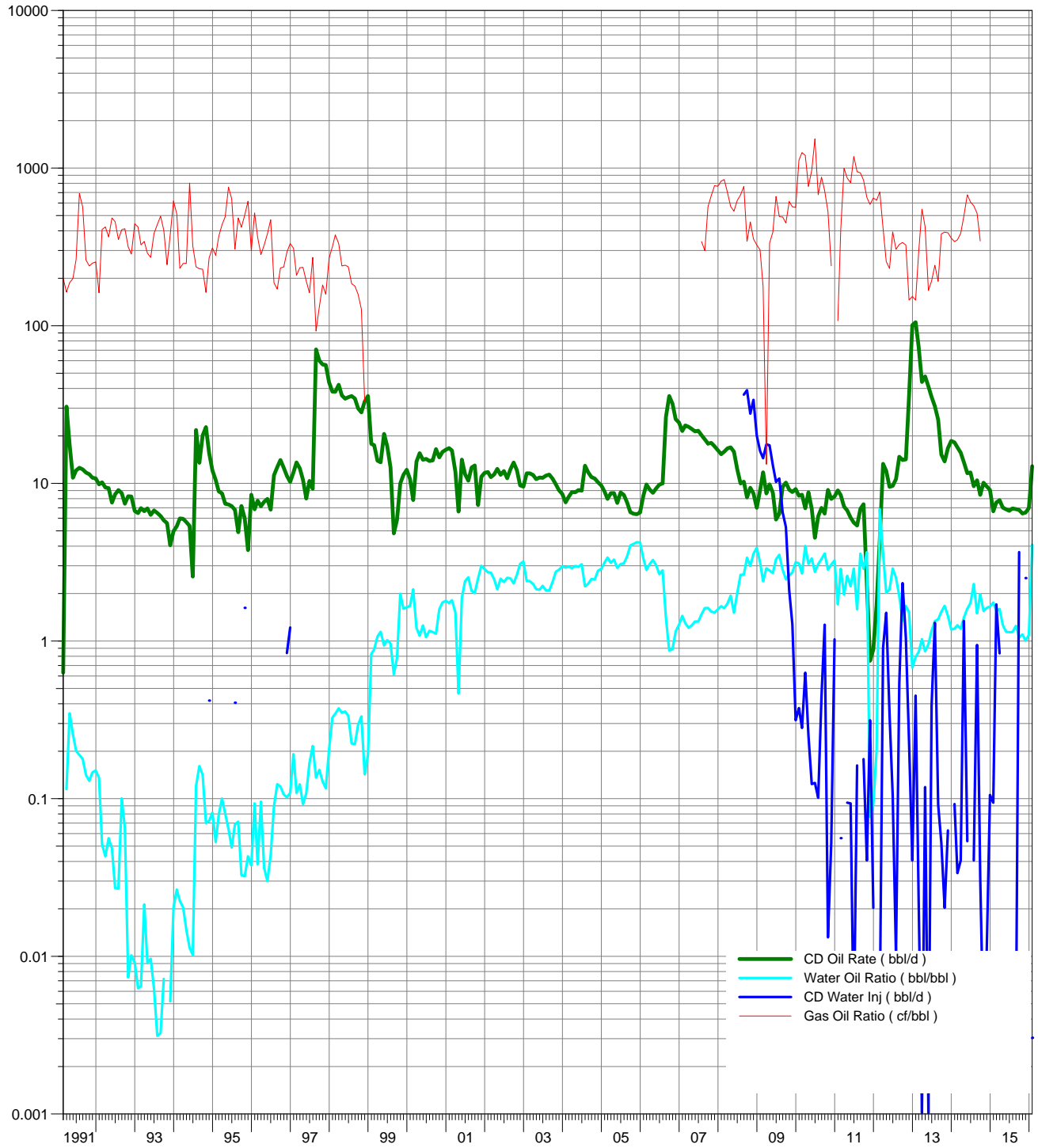
# Calendar Day Production for Pattern: 10-16 Set: PIERSON UNIT Total

Cumulative Oil Prod : 120.46 Mbbl



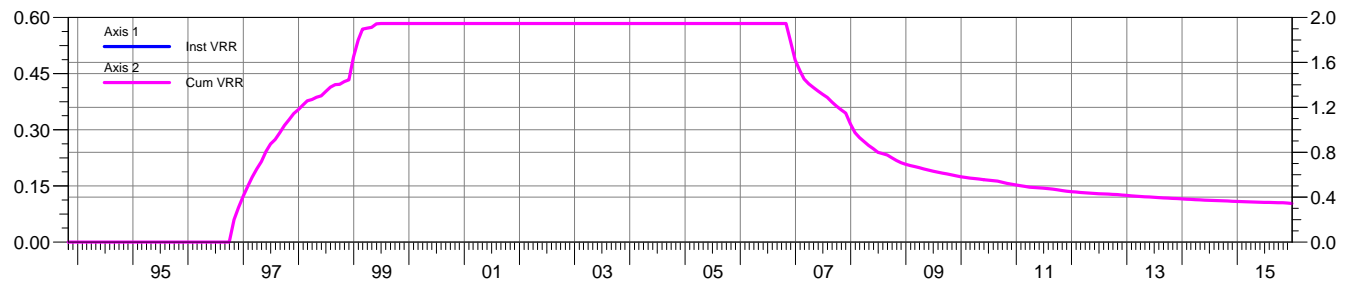
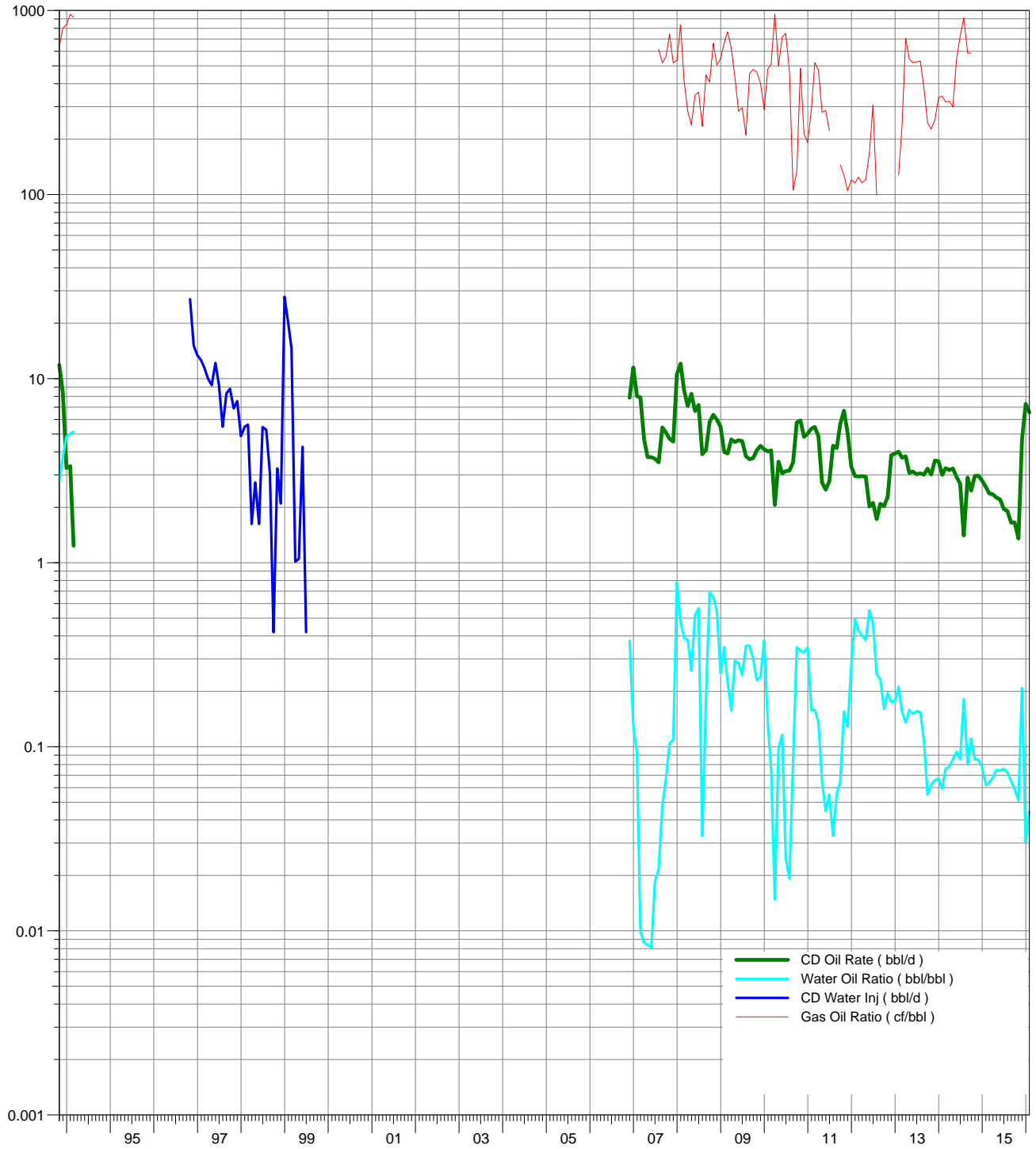
# Calendar Day Production for Pattern: 10-17 Set: PIERSON UNIT Total

Cumulative Oil Prod : 127.70 Mbbl



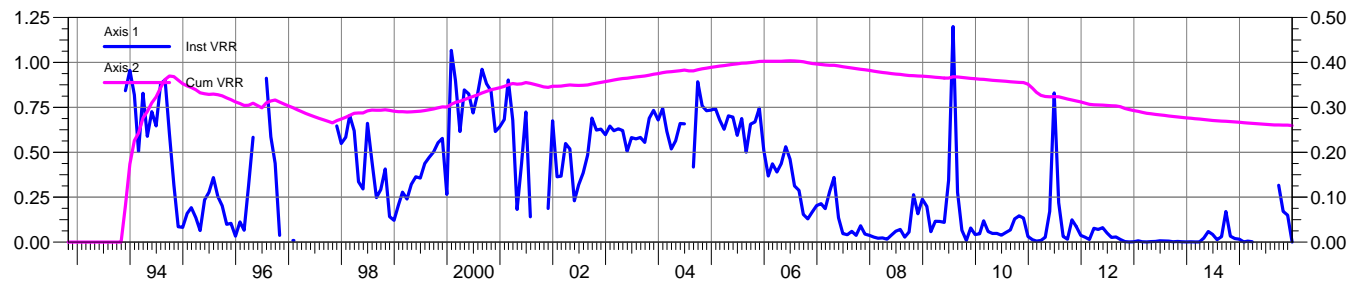
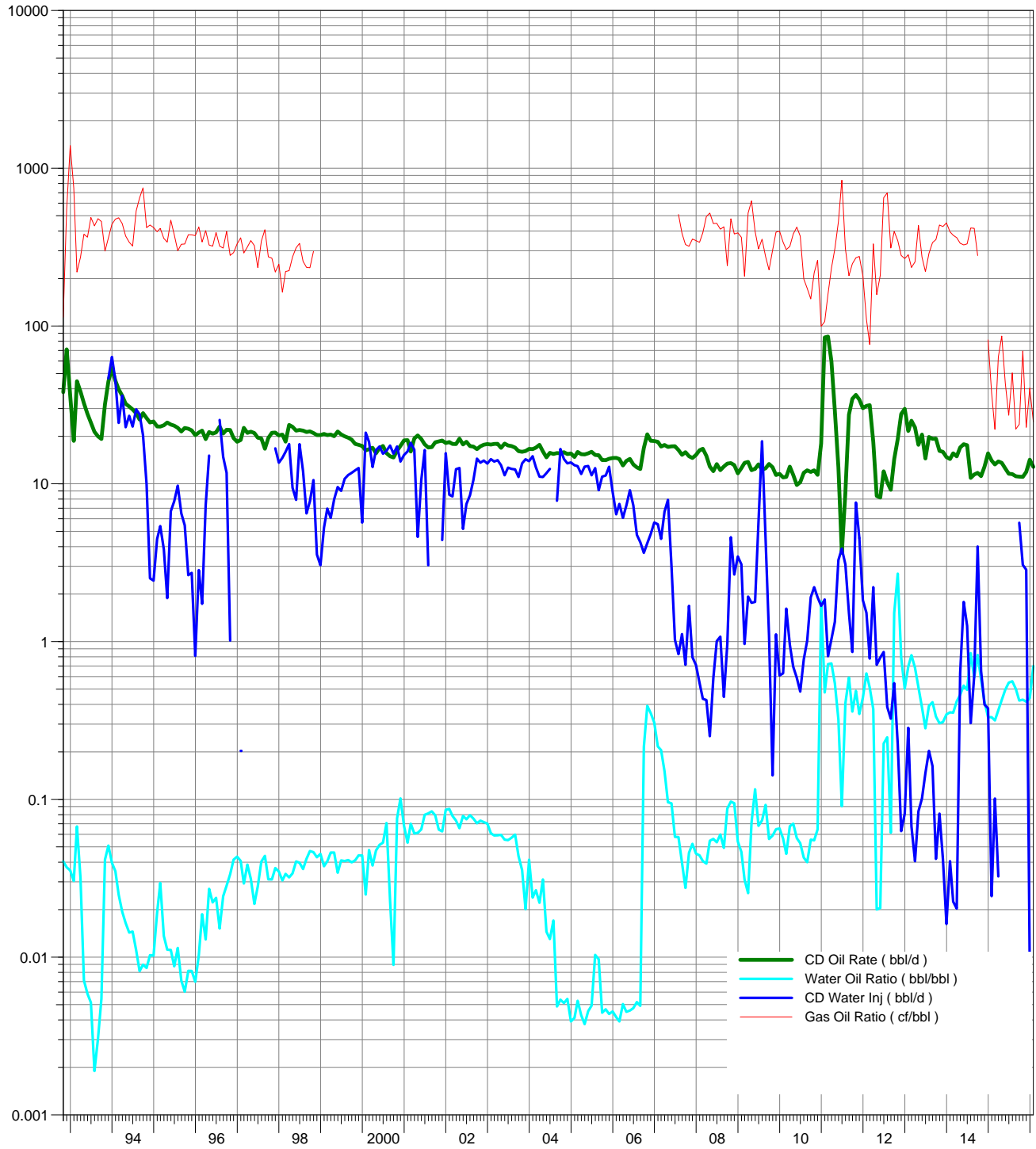
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Cumulative Oil Prod : 14.92 Mbbl



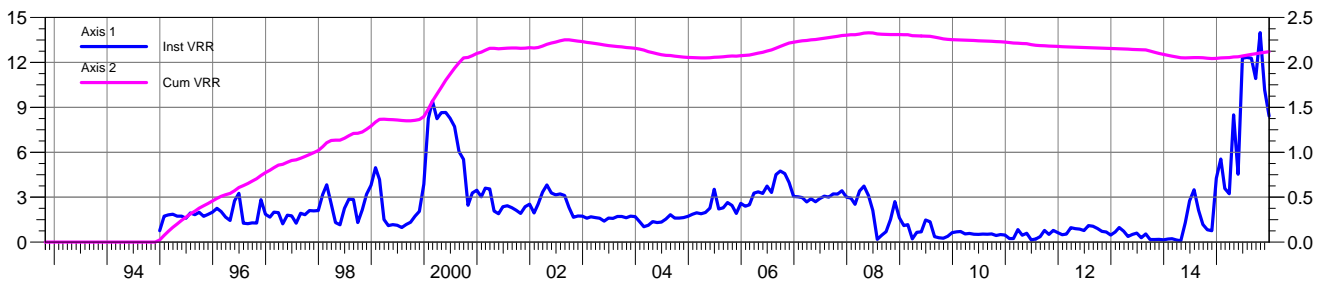
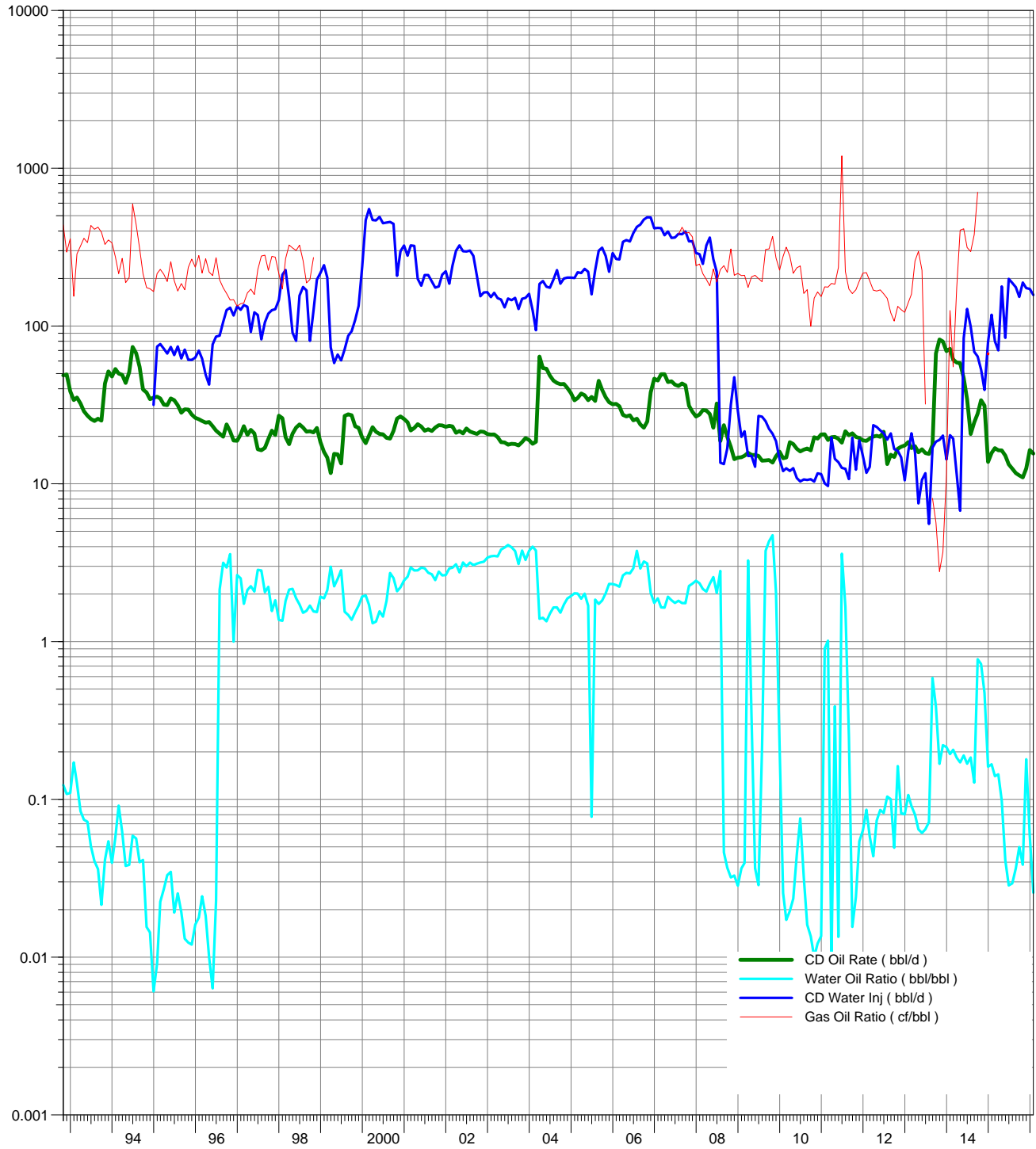
# Calendar Day Production for Pattern: 10-08 Set: PIERSON UNIT Total

Cumulative Oil Prod : 164.90 Mbbl



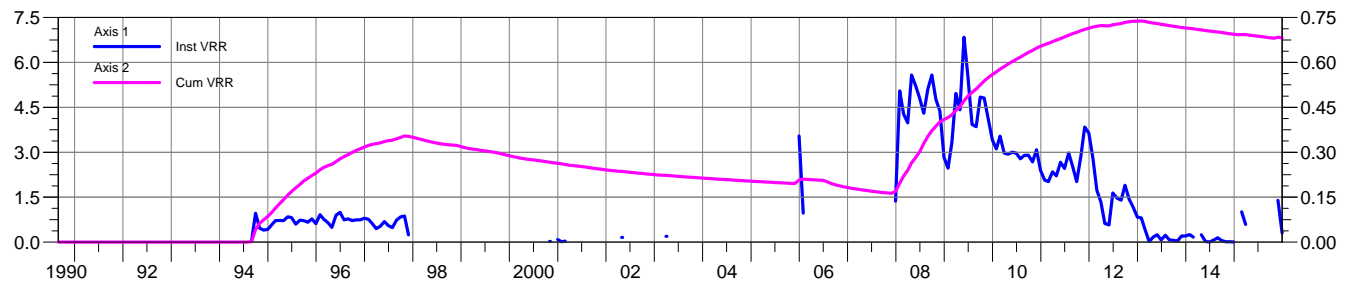
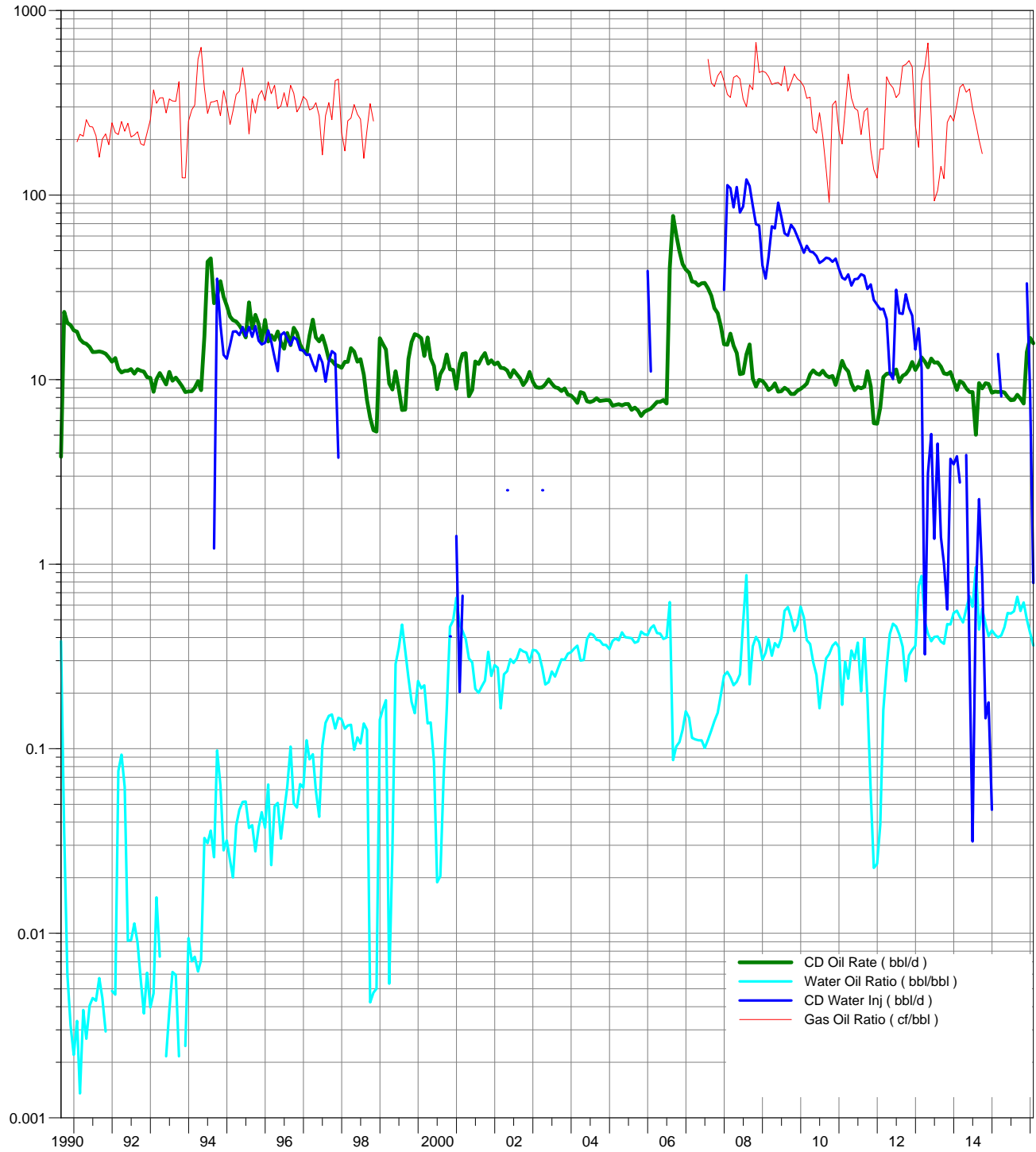
# Calendar Day Production for Pattern: 10-09 Set: PIERSON UNIT Total

Cumulative Oil Prod : 228.85 Mbbbl



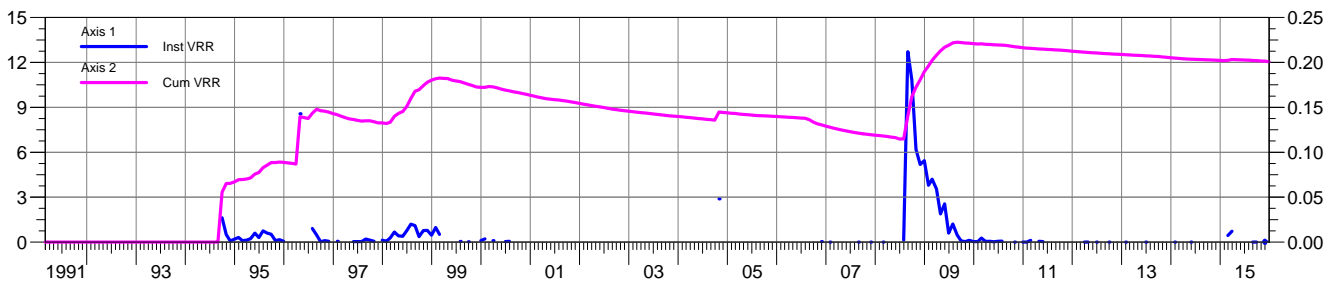
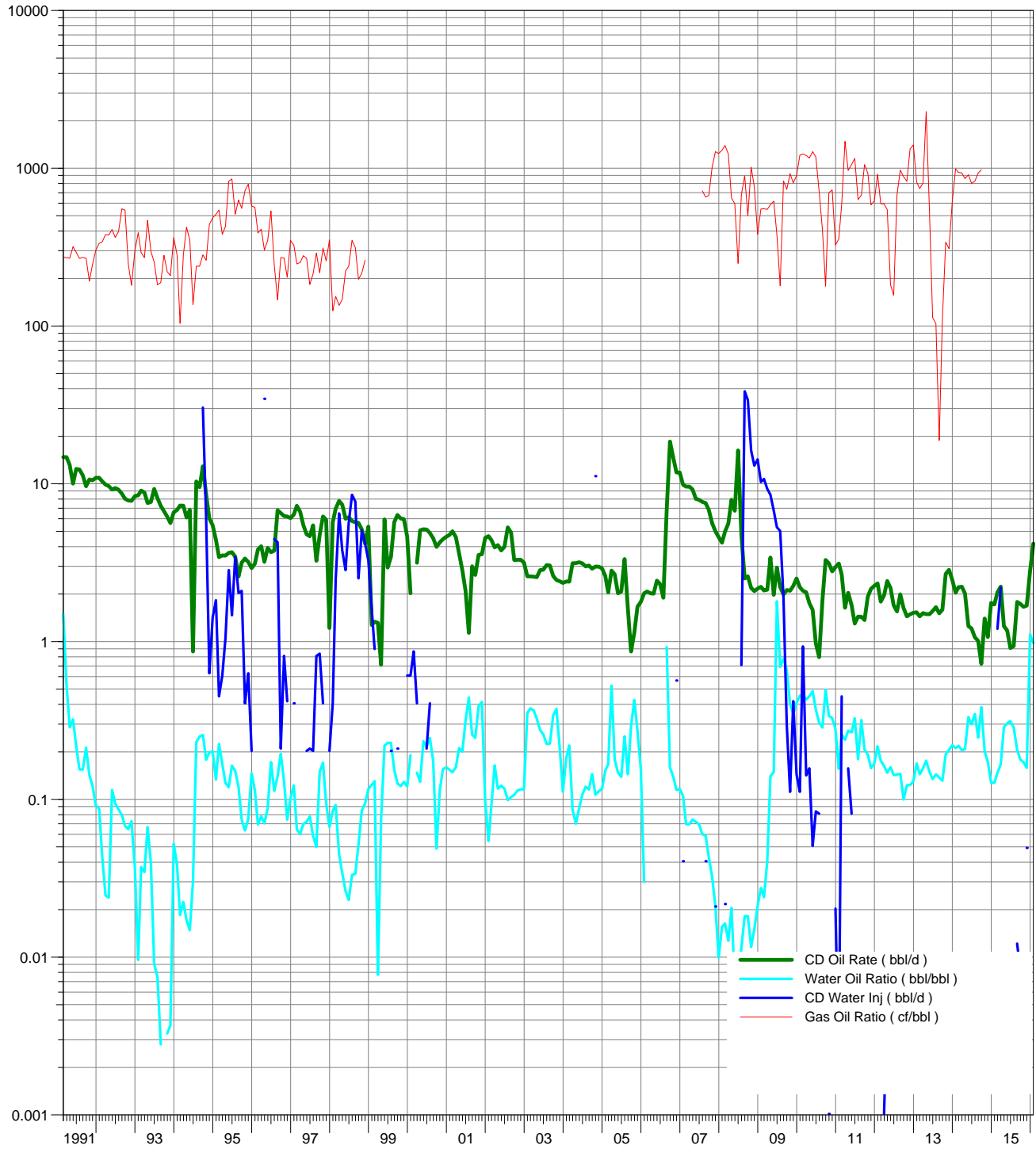
# Calendar Day Production for Pattern: 12-16 Set: PIERSON UNIT Total

Cumulative Oil Prod : 124.94 Mbbl



# Calendar Day Production for Pattern: 12-17 Set: PIERSON UNIT Total

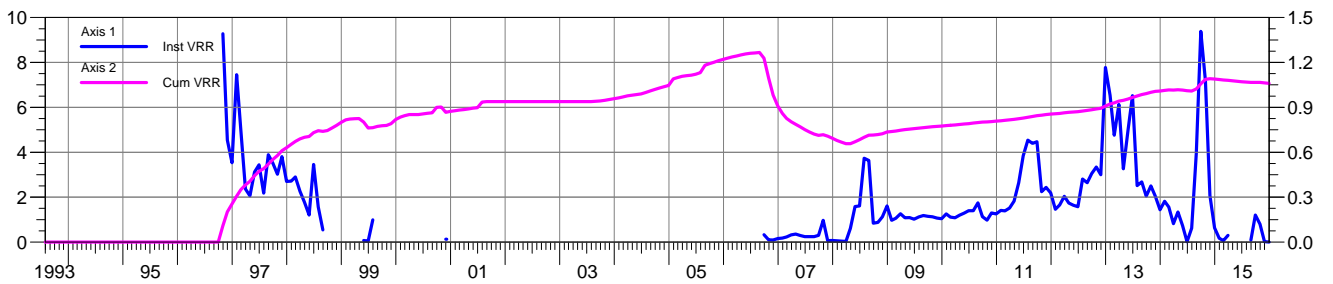
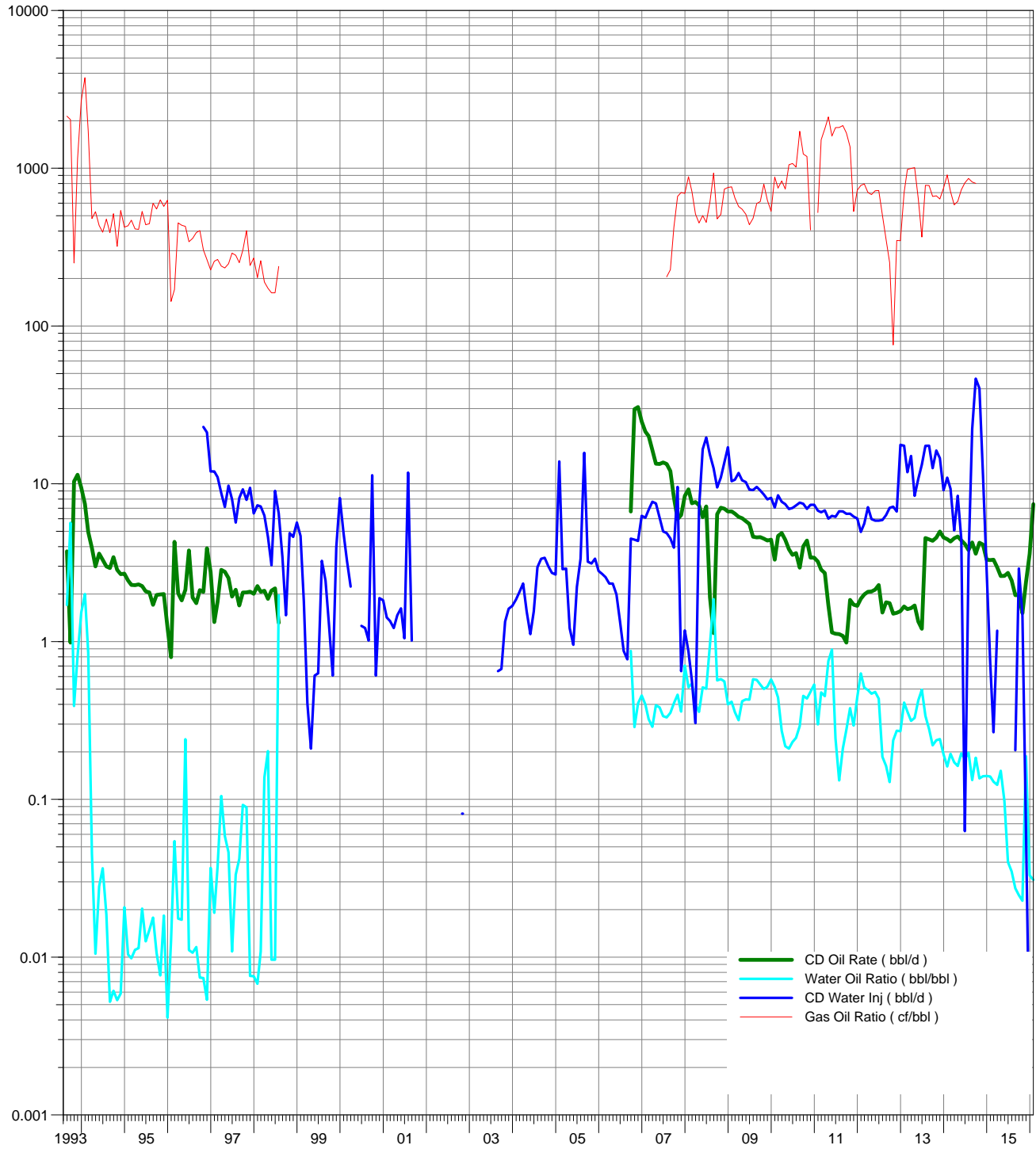
Cumulative Oil Prod : 40.14 Mbbl





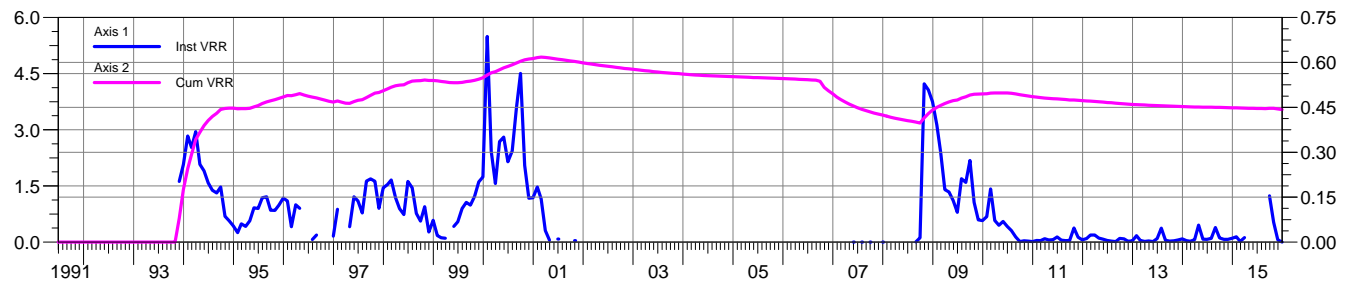
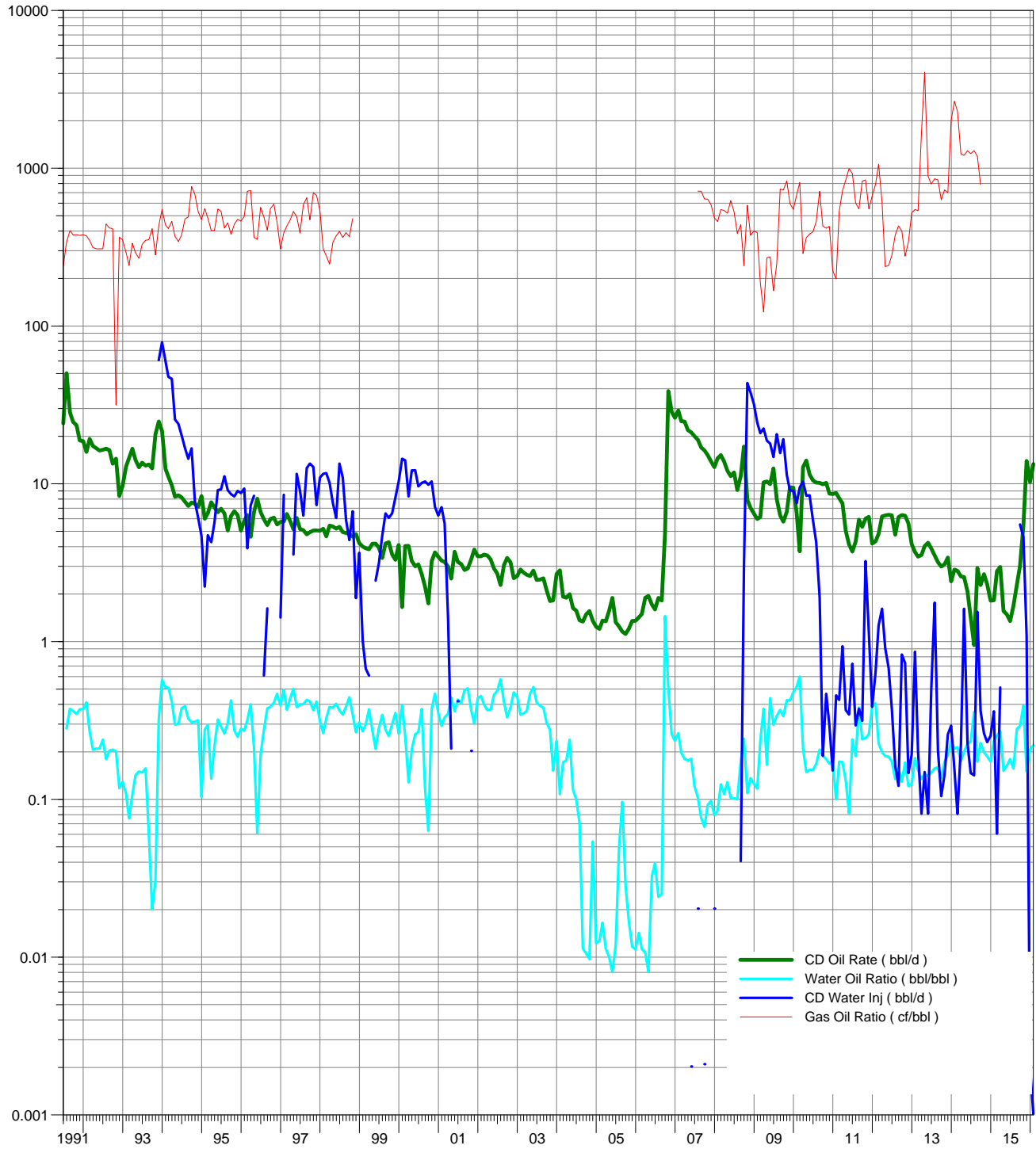
# Calendar Day Production for Pattern: 12-04 Set: PIERSON UNIT Total

Cumulative Oil Prod : 23.45 Mbbl



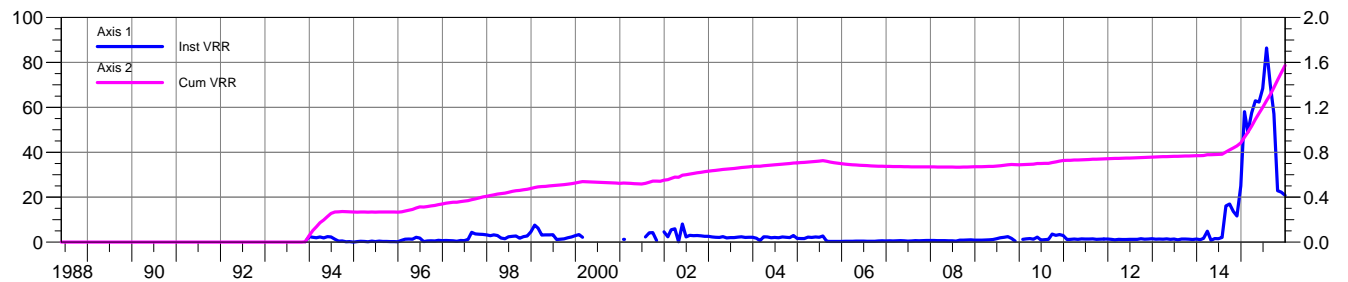
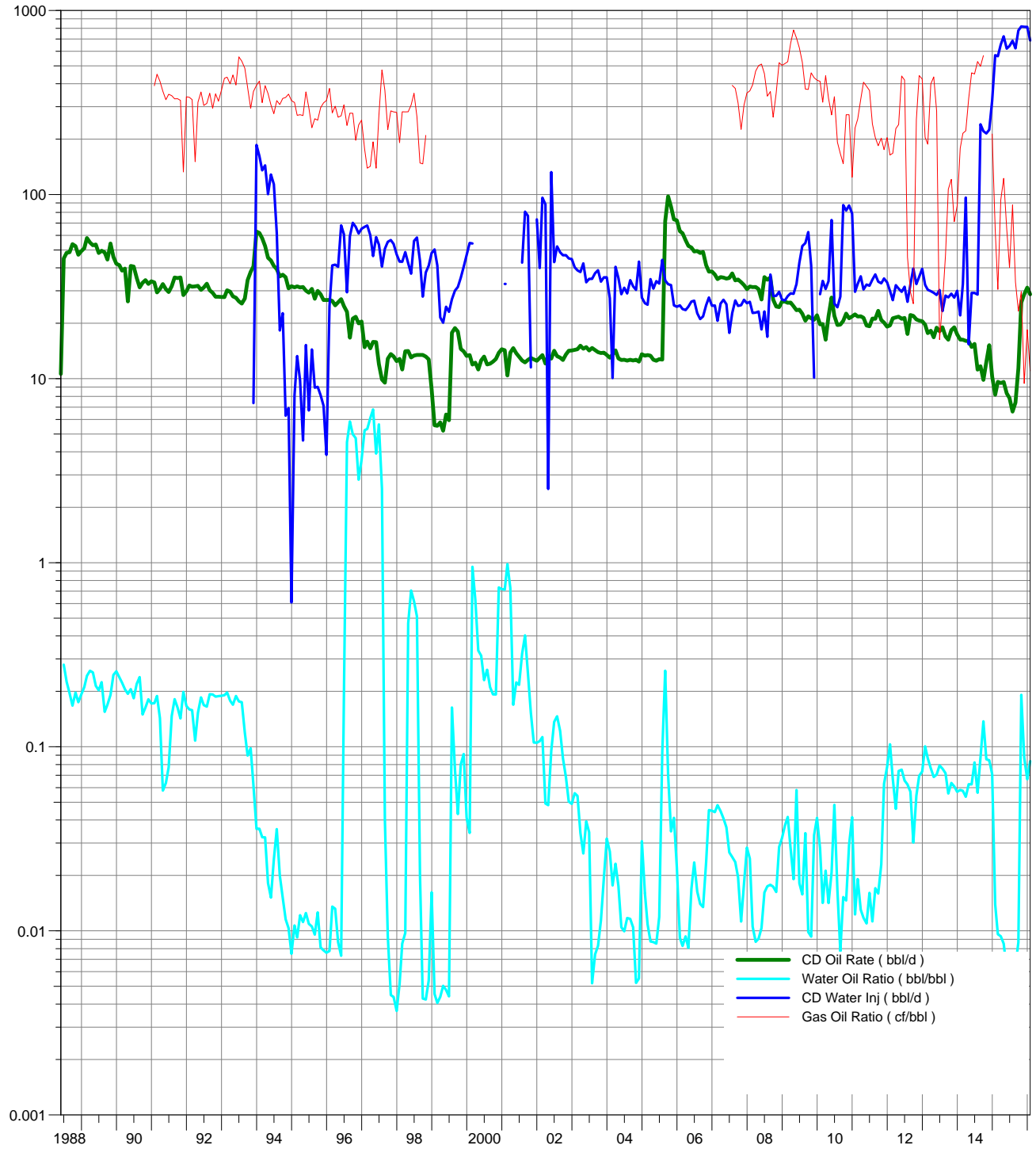
# Calendar Day Production for Pattern: 12-08 Set: PIERSON UNIT Total

Cumulative Oil Prod : 64.91 Mbbl



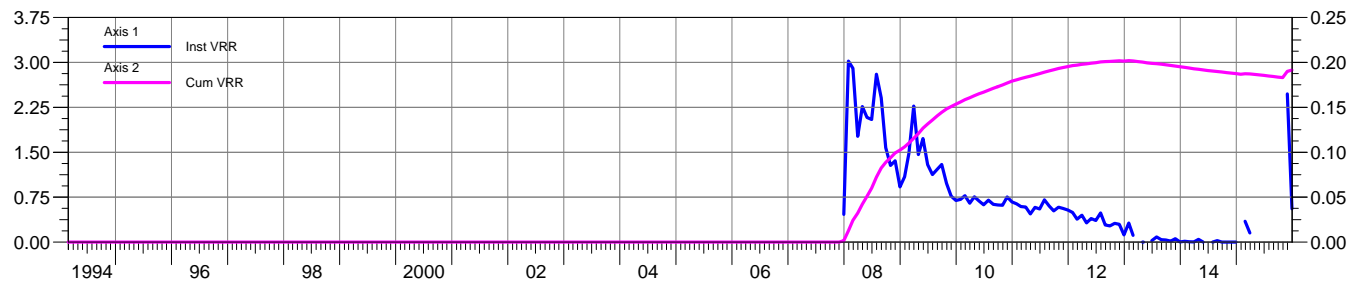
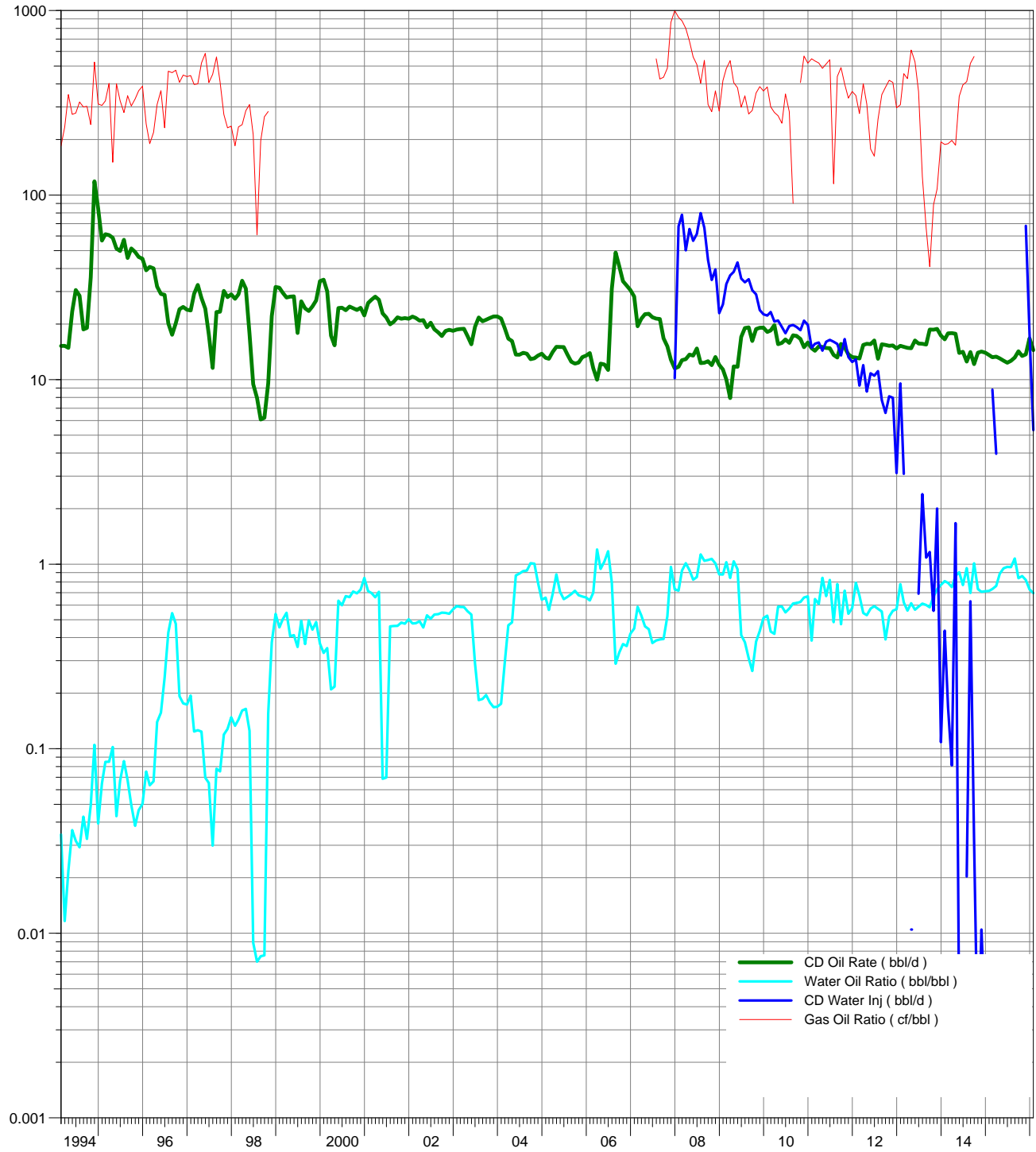
# Calendar Day Production for Pattern: 12-09 Set: PIERSON UNIT Total

Cumulative Oil Prod : 255.31 Mbbl



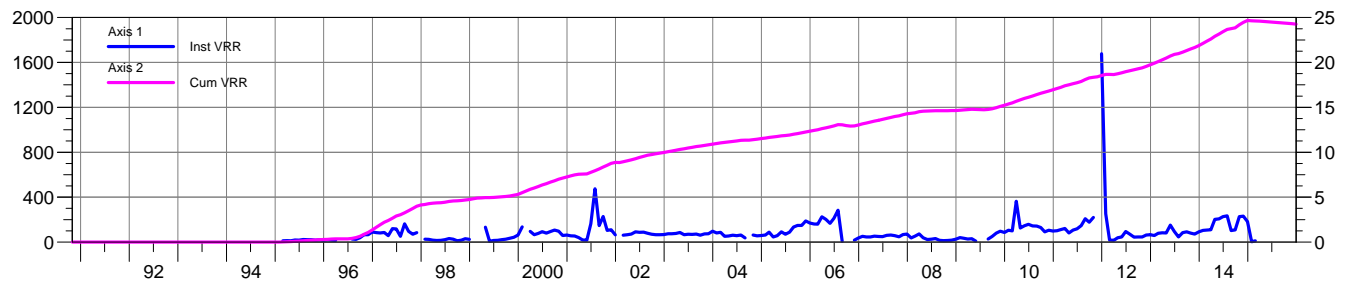
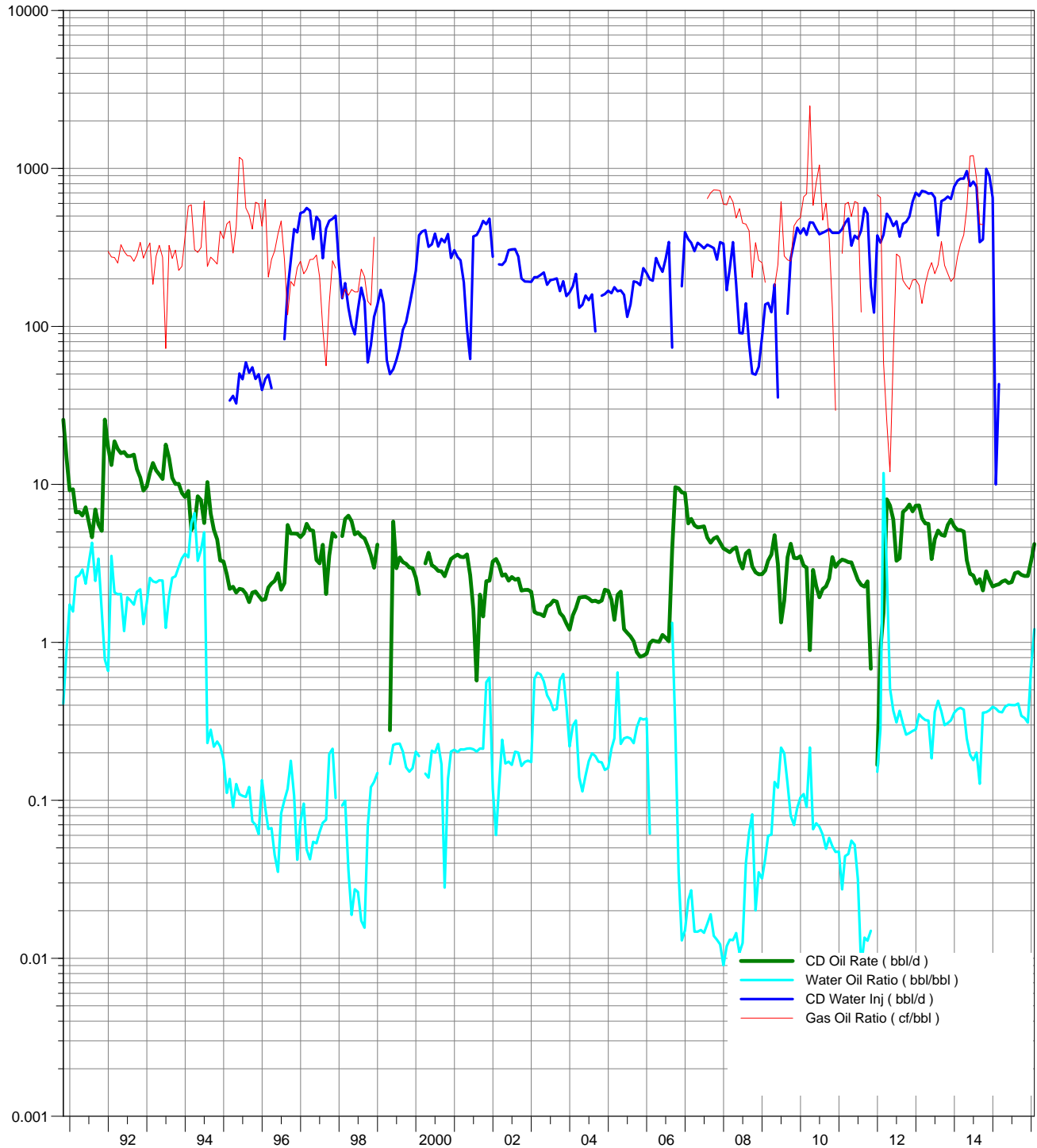
# Calendar Day Production for Pattern: 14-16 Set: PIERSON UNIT Total

Cumulative Oil Prod : 169.91 Mbbl



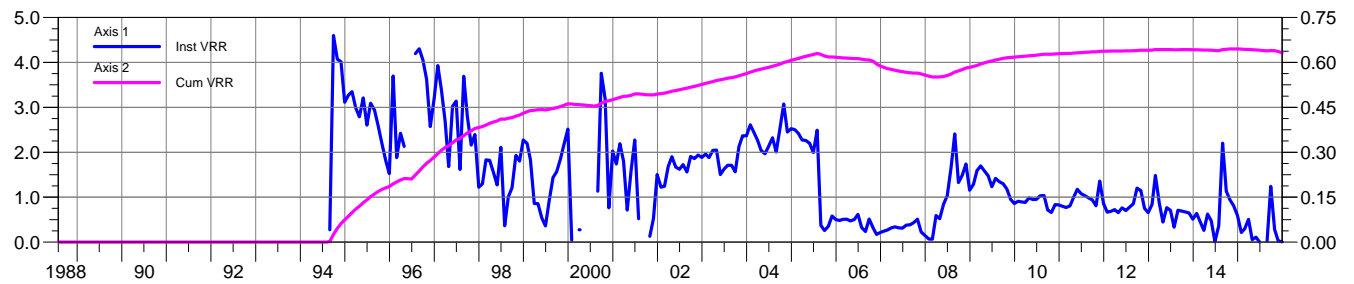
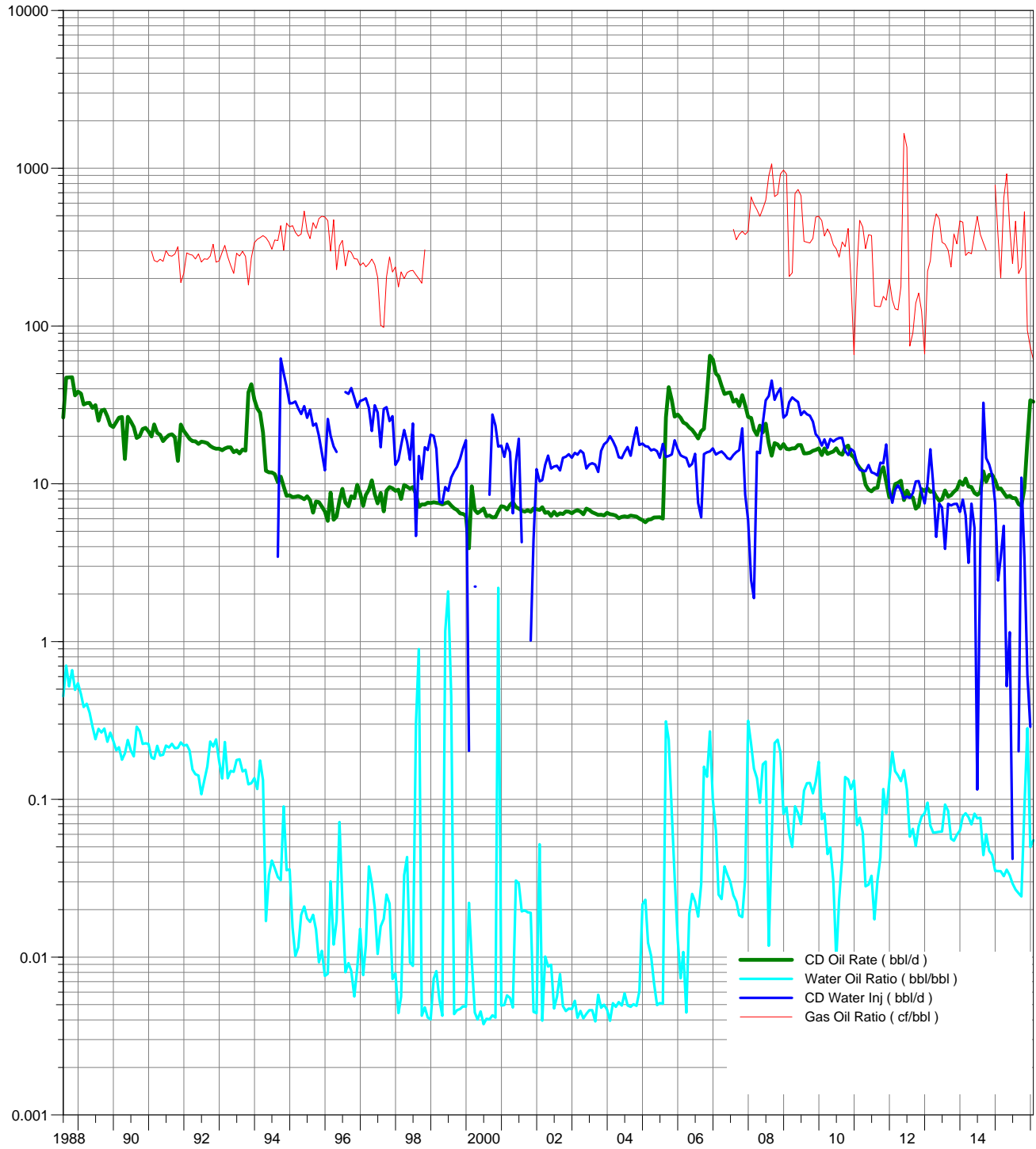
# Calendar Day Production for Pattern: 14-17 Set: PIERSON UNIT Total

Cumulative Oil Prod : 40.65 Mbbl



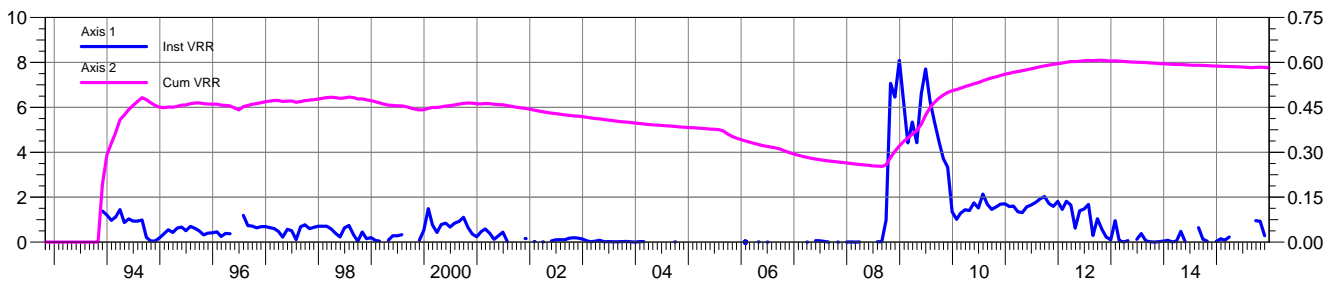
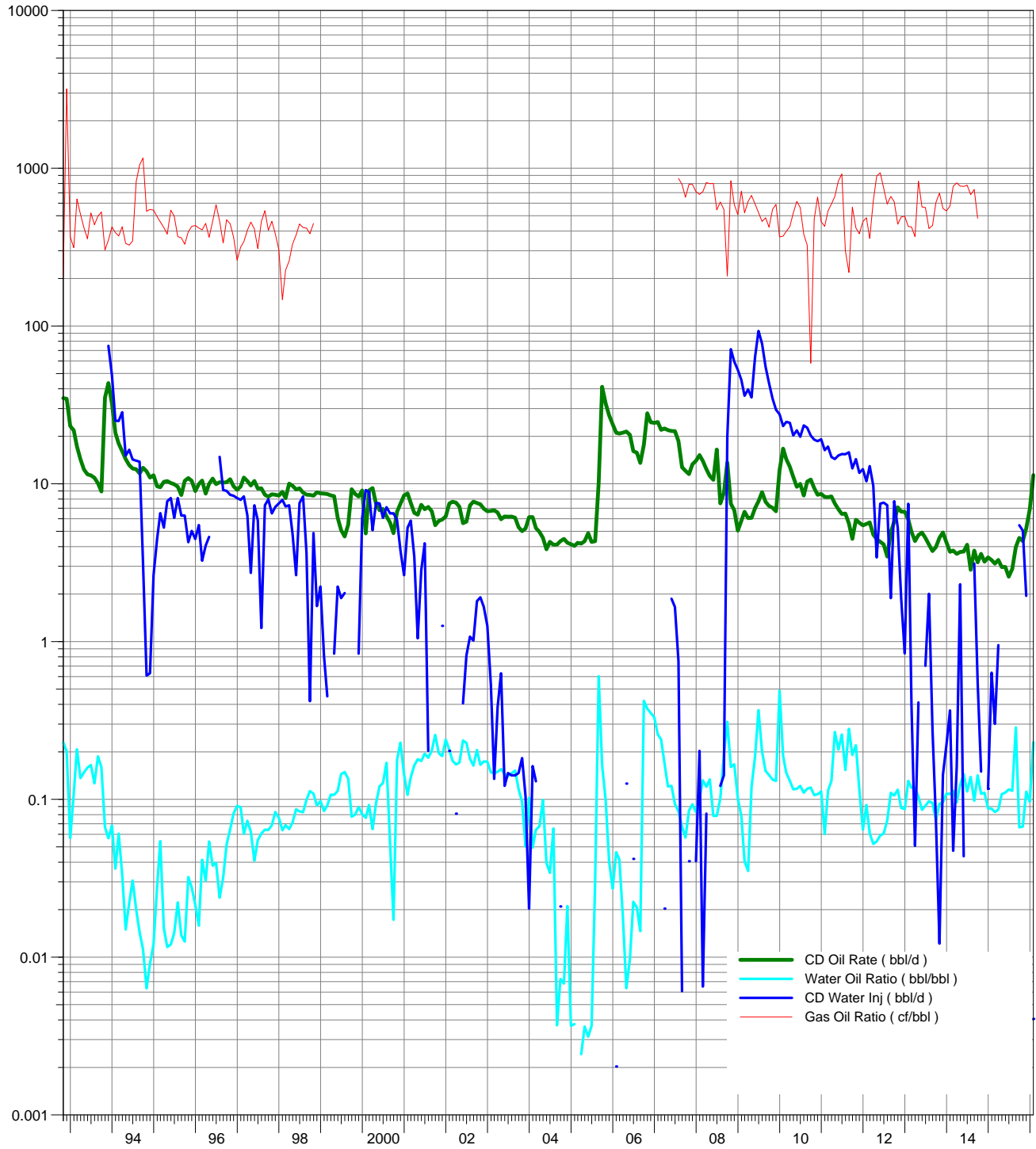
# Calendar Day Production for Pattern: 14-04 Set: PIERSON UNIT Total

Cumulative Oil Prod : 149.34 Mbbl



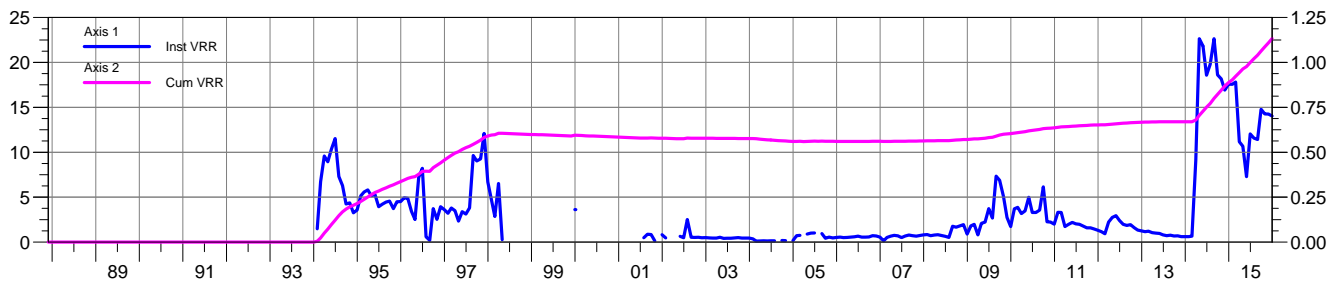
# Calendar Day Production for Pattern: 14-08 Set: PIERSON UNIT Total

Cumulative Oil Prod : 81.70 Mbbl



# Calendar Day Production for Pattern: 14-09 Set: PIERSON UNIT Total

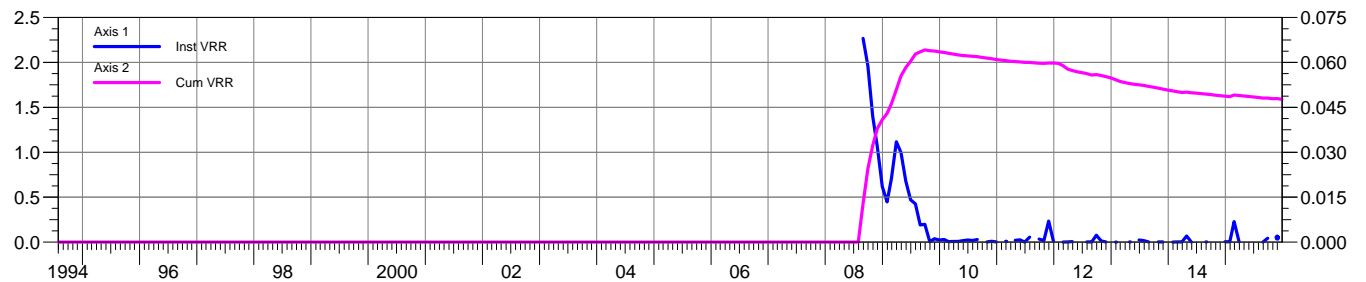
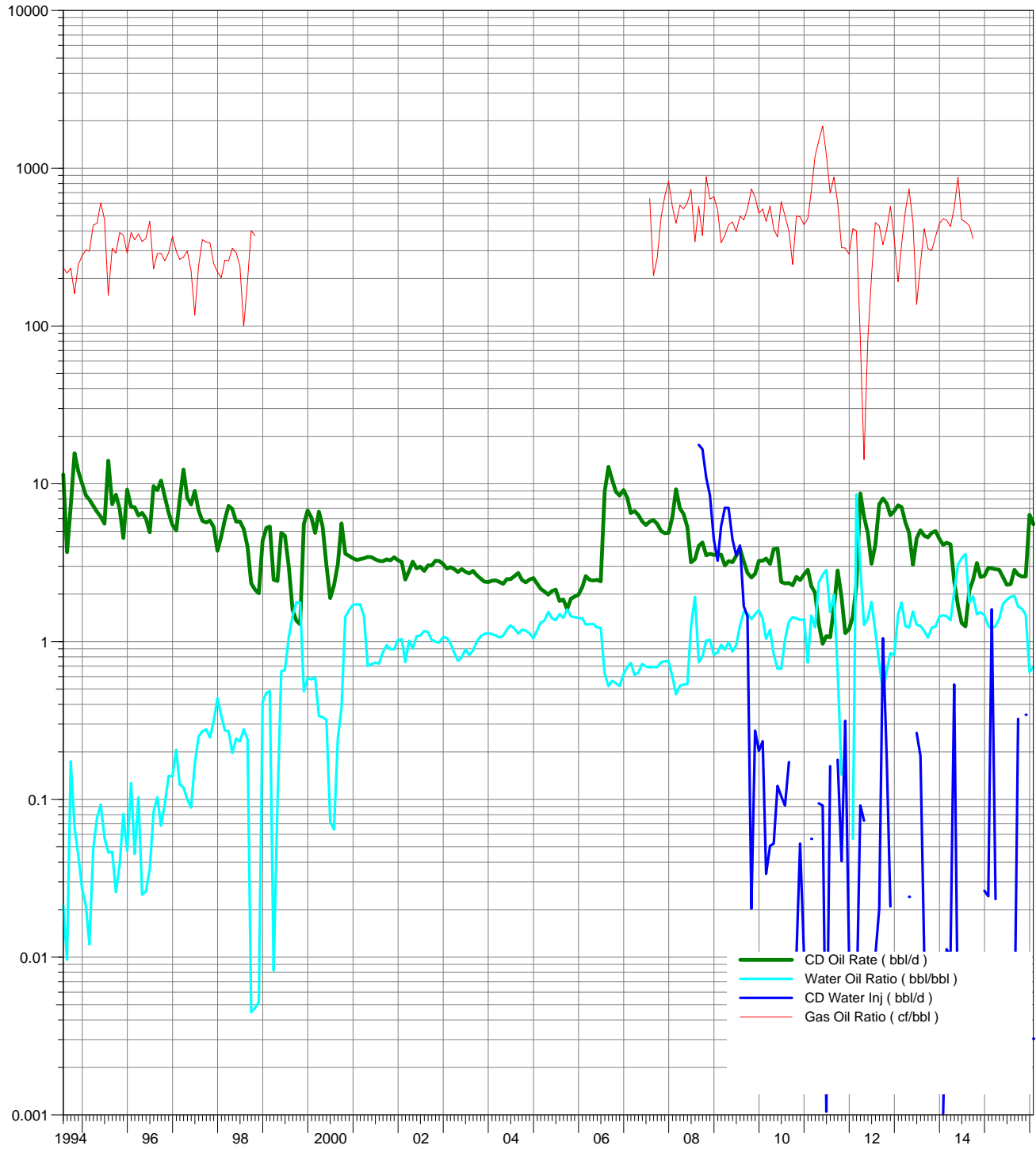
Cumulative Oil Prod : 320.03 Mbbl





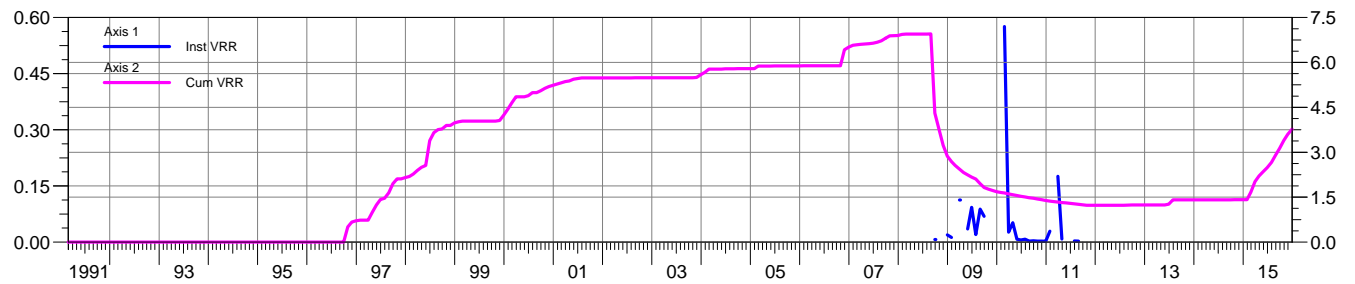
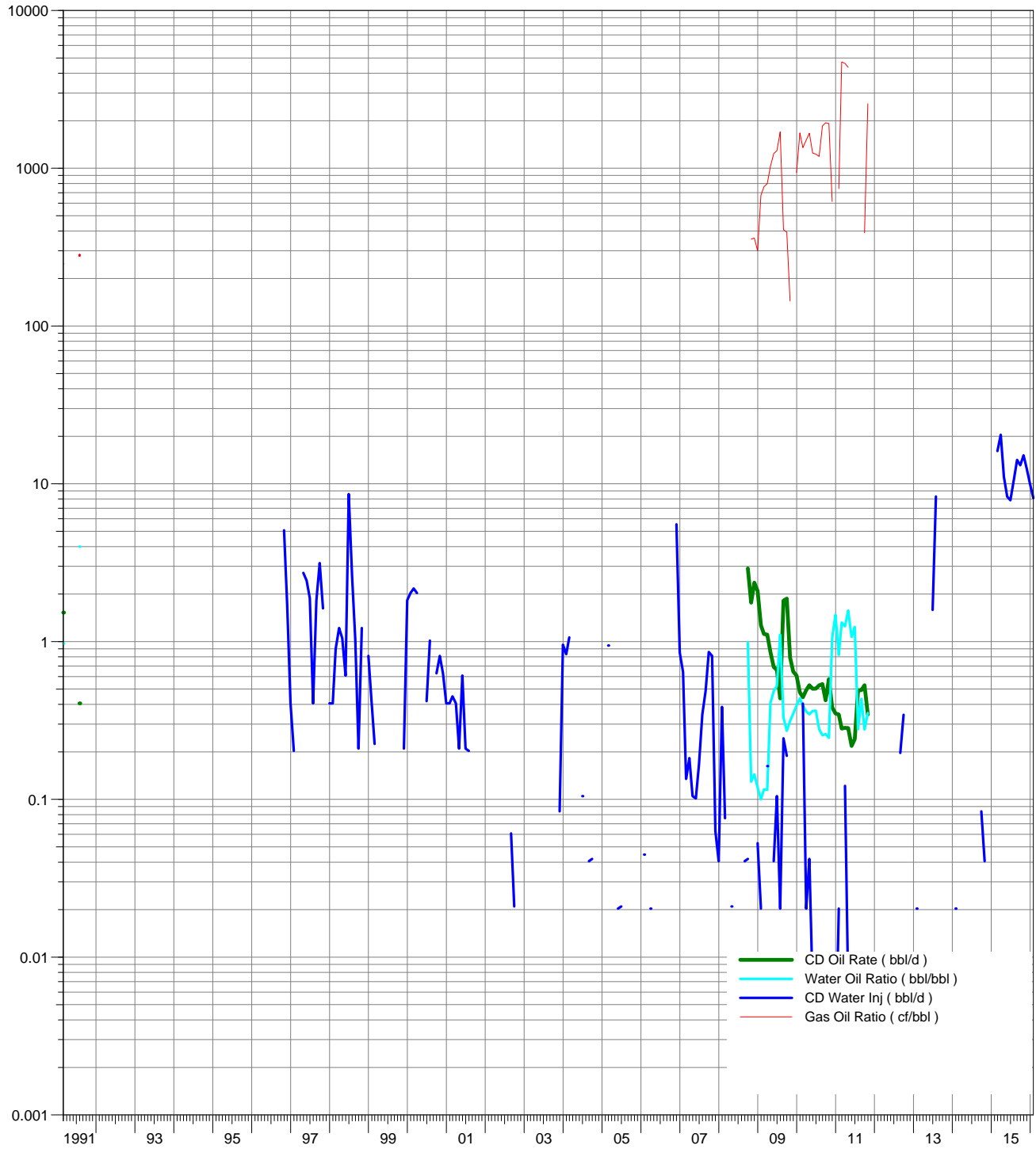
# Calendar Day Production for Pattern: 16-17 Set: PIERSON UNIT Total

Cumulative Oil Prod : 34.53 Mbbl



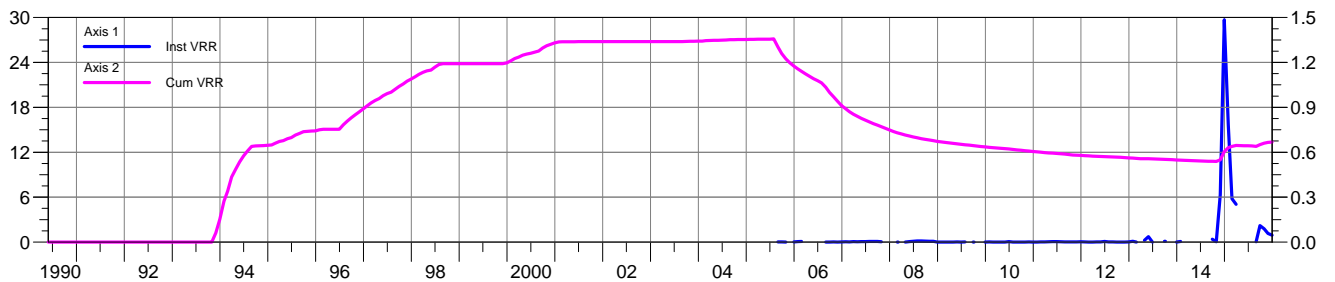
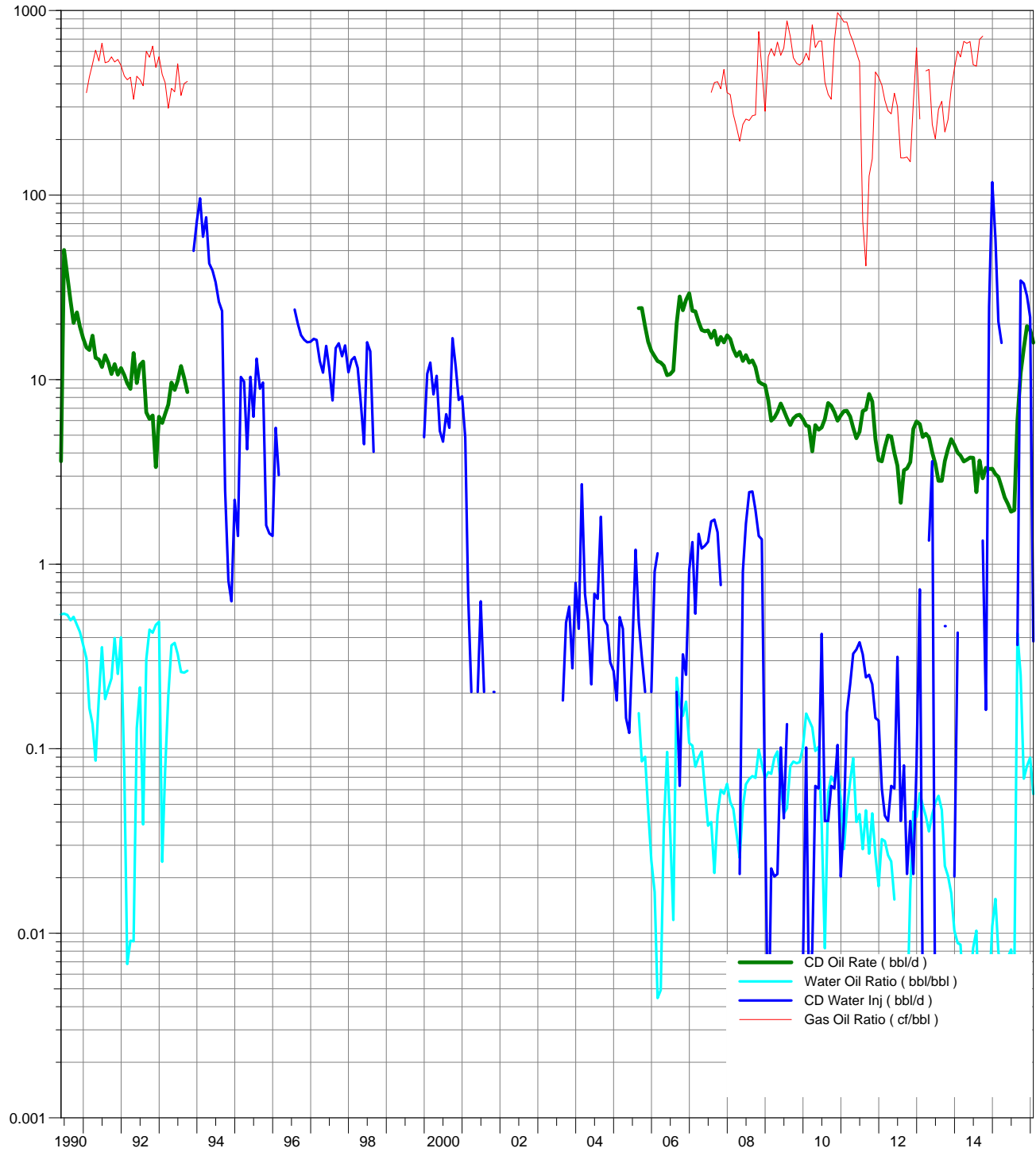
# Calendar Day Production for Pattern: 16-18 Set: PIERSON UNIT Total

Cumulative Oil Prod : 0.98 Mbbl



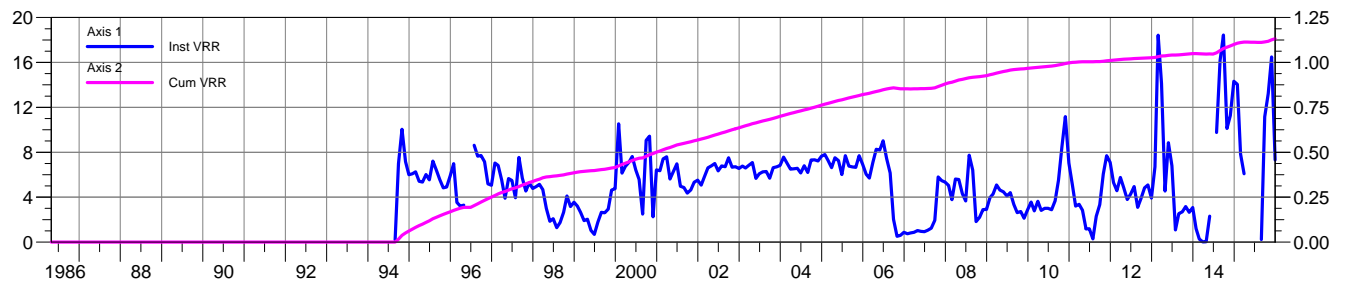
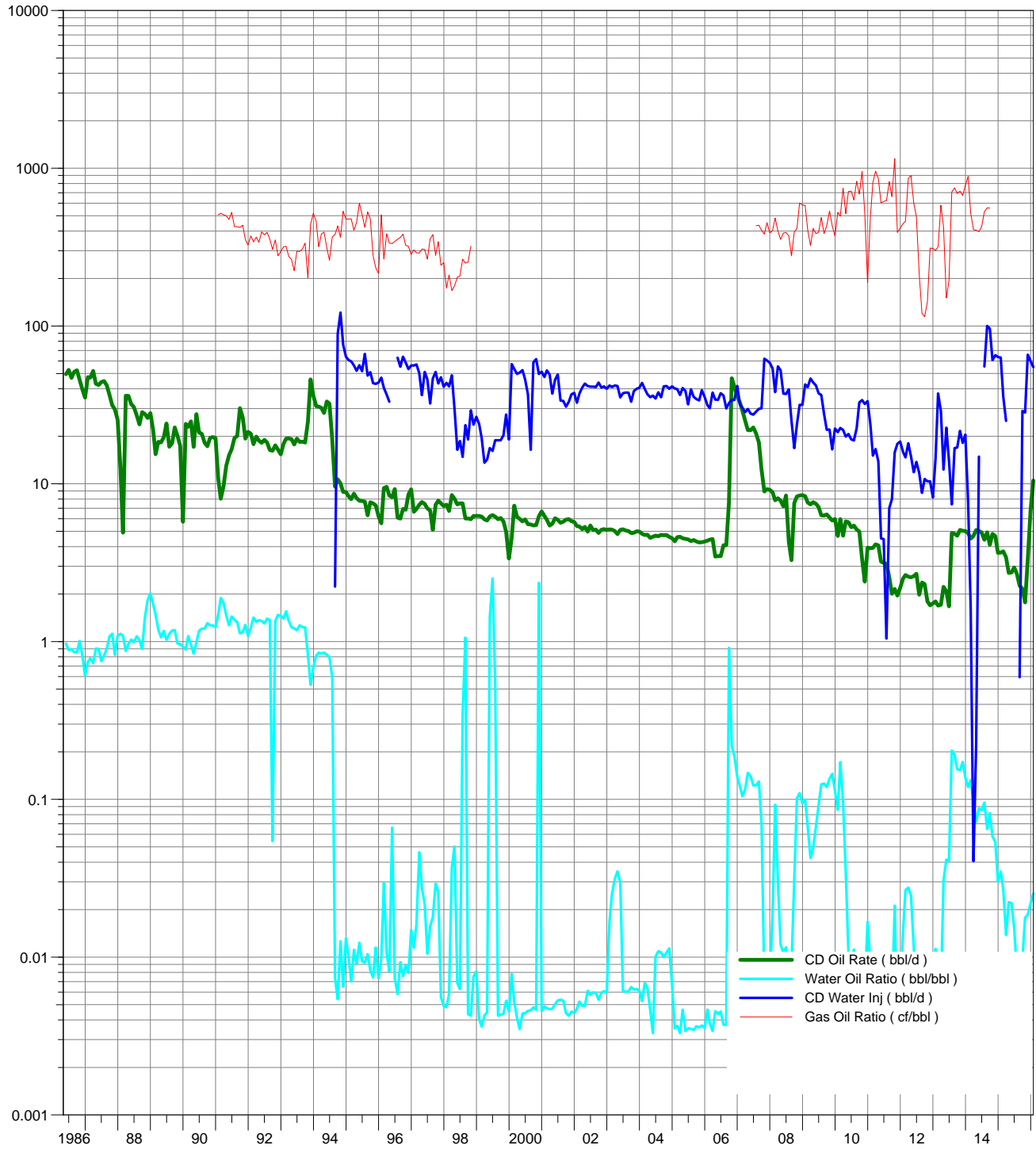
# Calendar Day Production for Pattern: 16-04 Set: PIERSON UNIT Total

Cumulative Oil Prod : 51.36 Mbbl



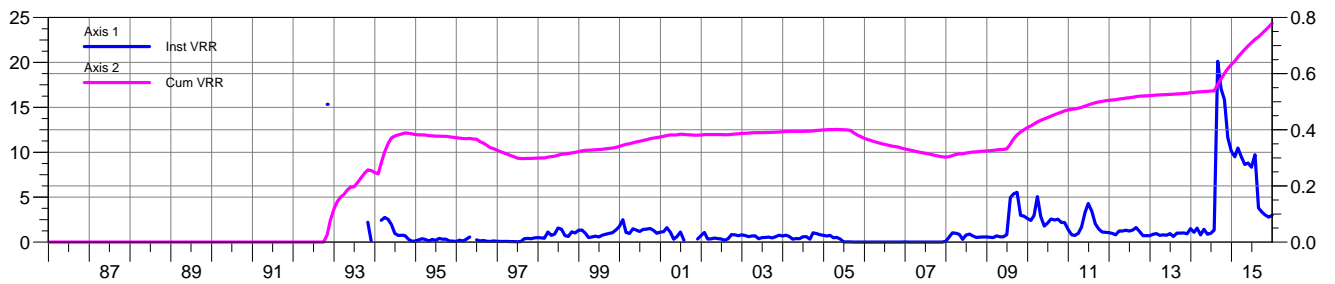
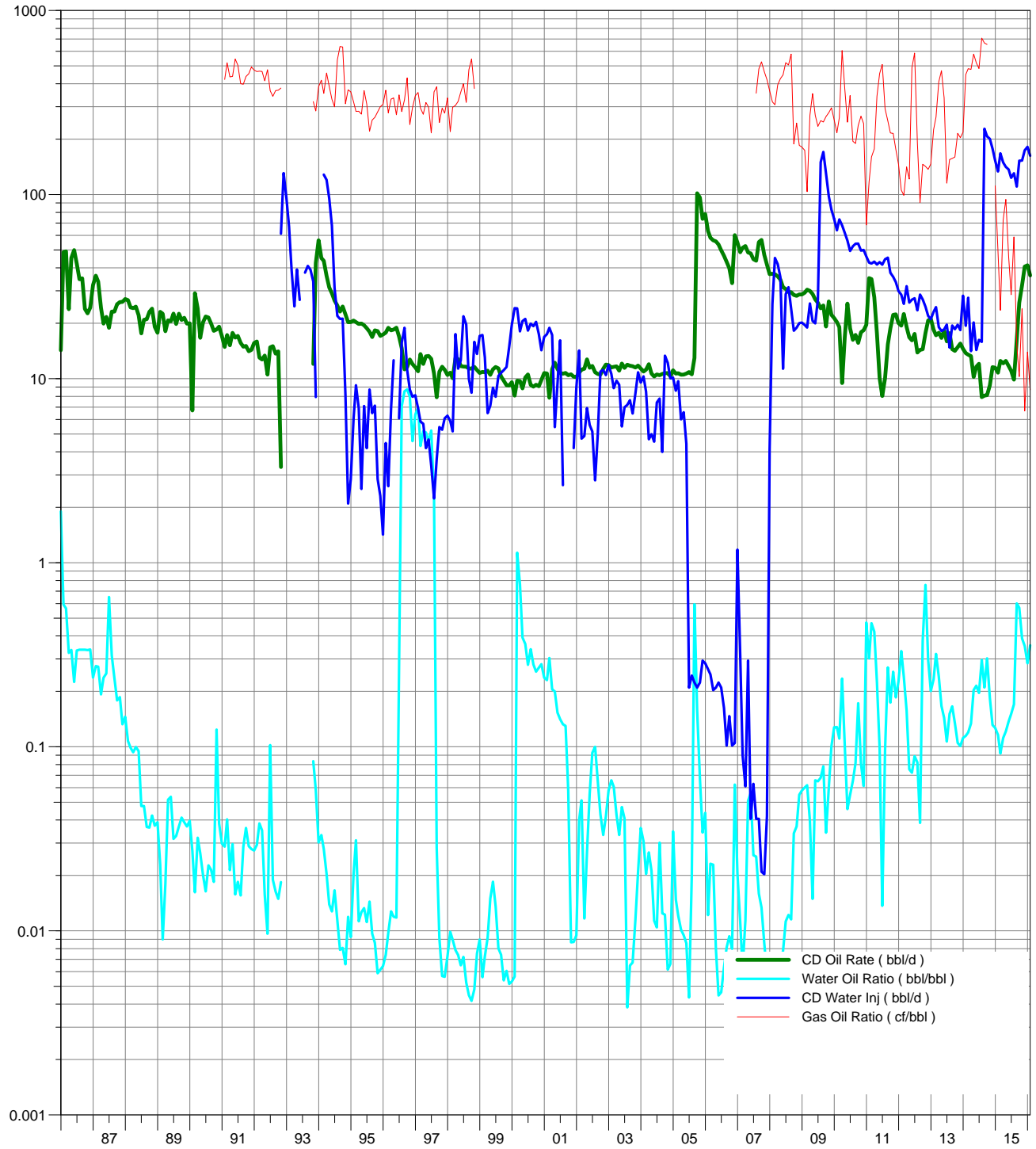
# Calendar Day Production for Pattern: 16-05 Set: PIERSON UNIT Total

Cumulative Oil Prod : 128.65 Mbbbl



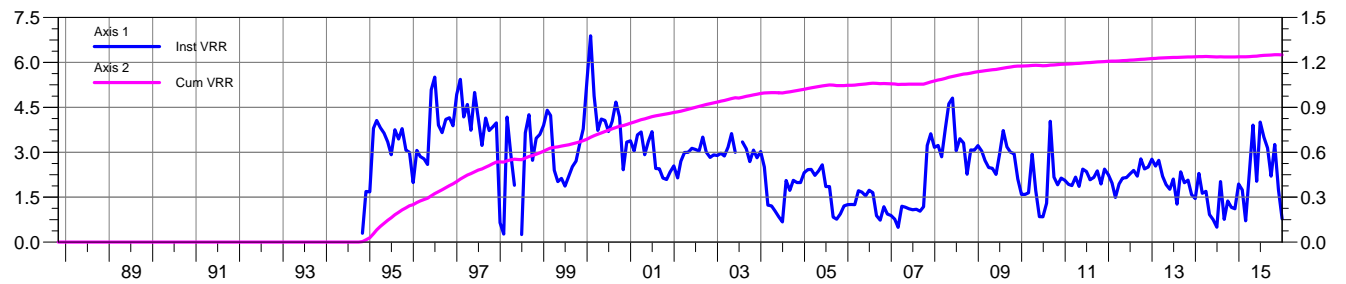
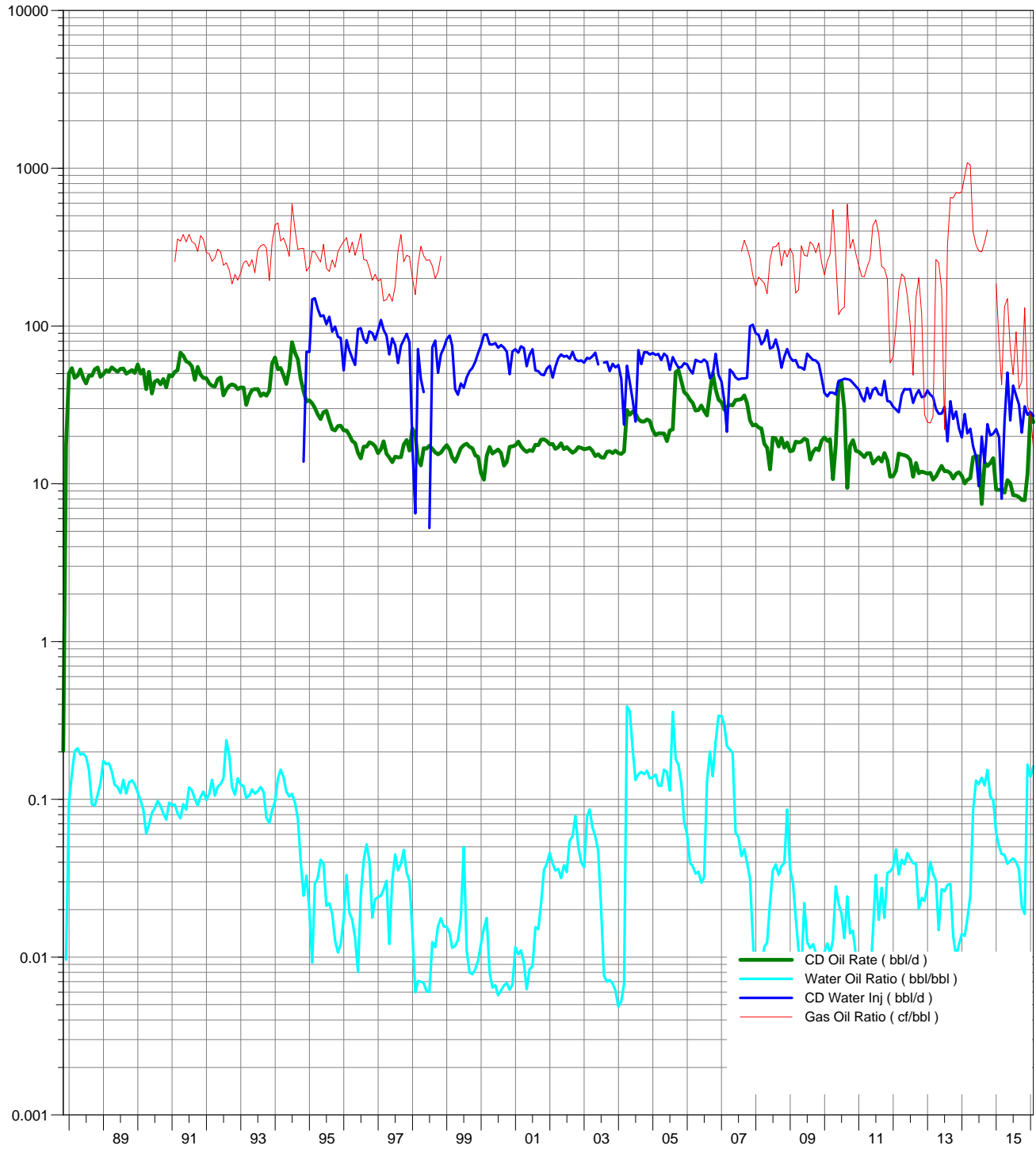
# Calendar Day Production for Pattern: 16-08 Set: PIERSON UNIT Total

Cumulative Oil Prod : 222.38 Mbbl



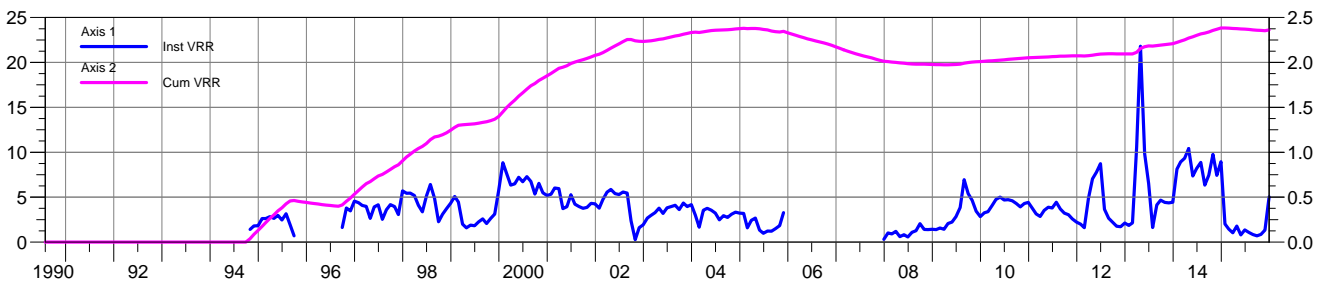
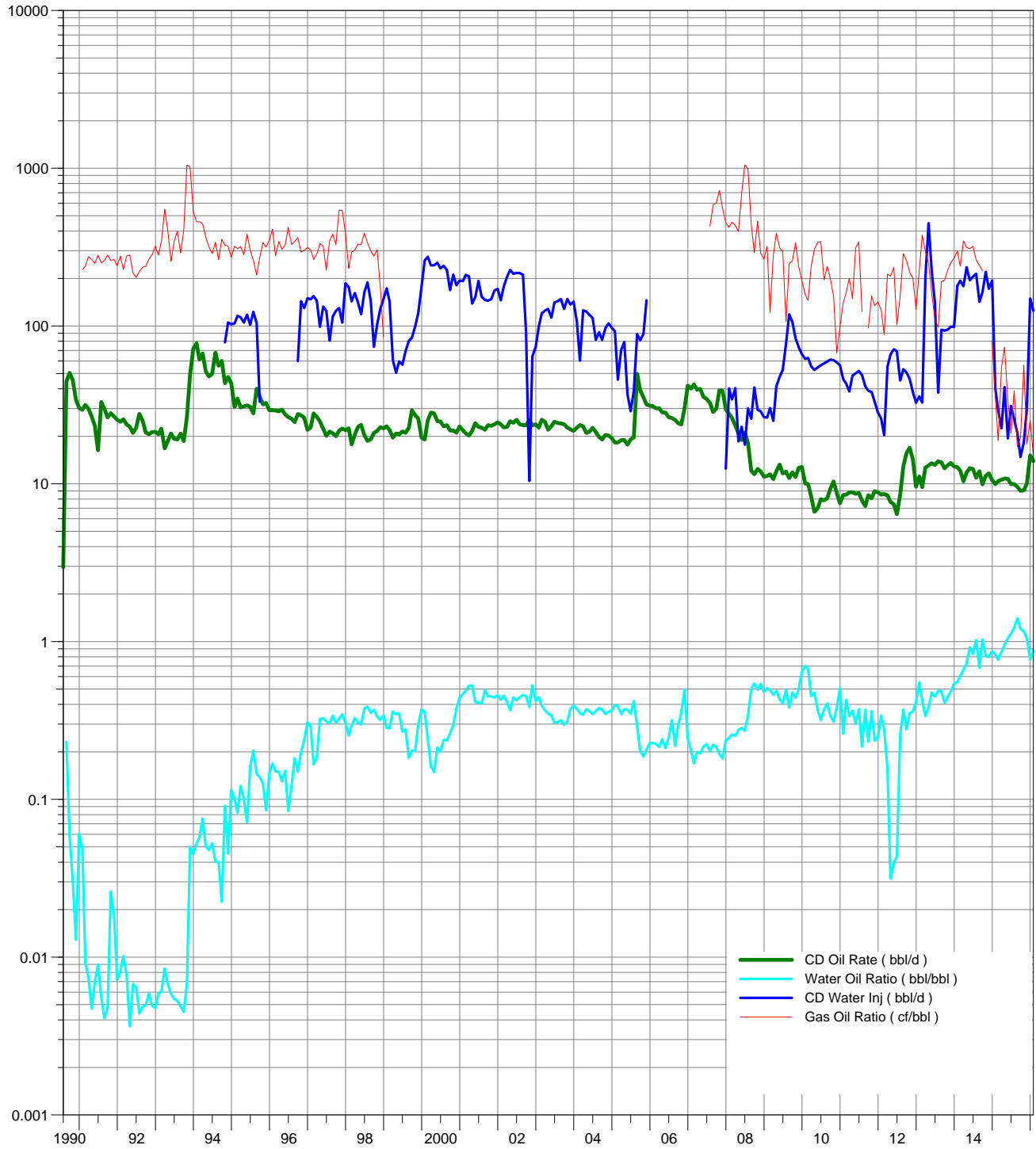
# Calendar Day Production for Pattern: 16-09 Set: PIERSON UNIT Total

Cumulative Oil Prod : 270.80 Mbbl



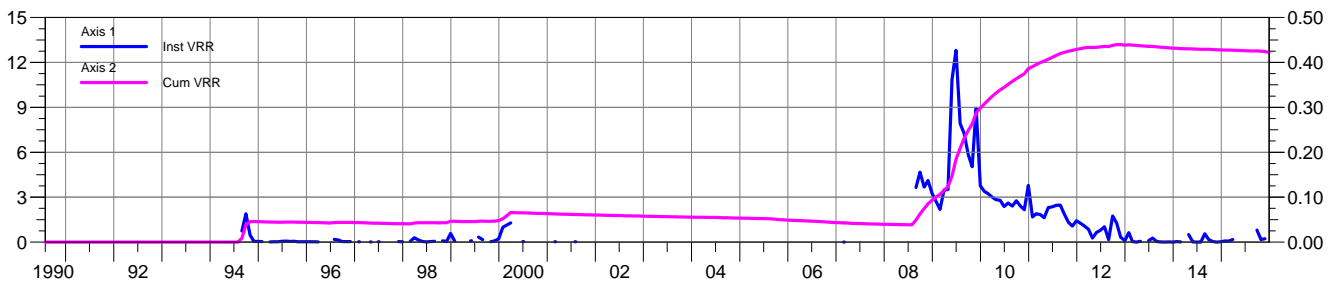
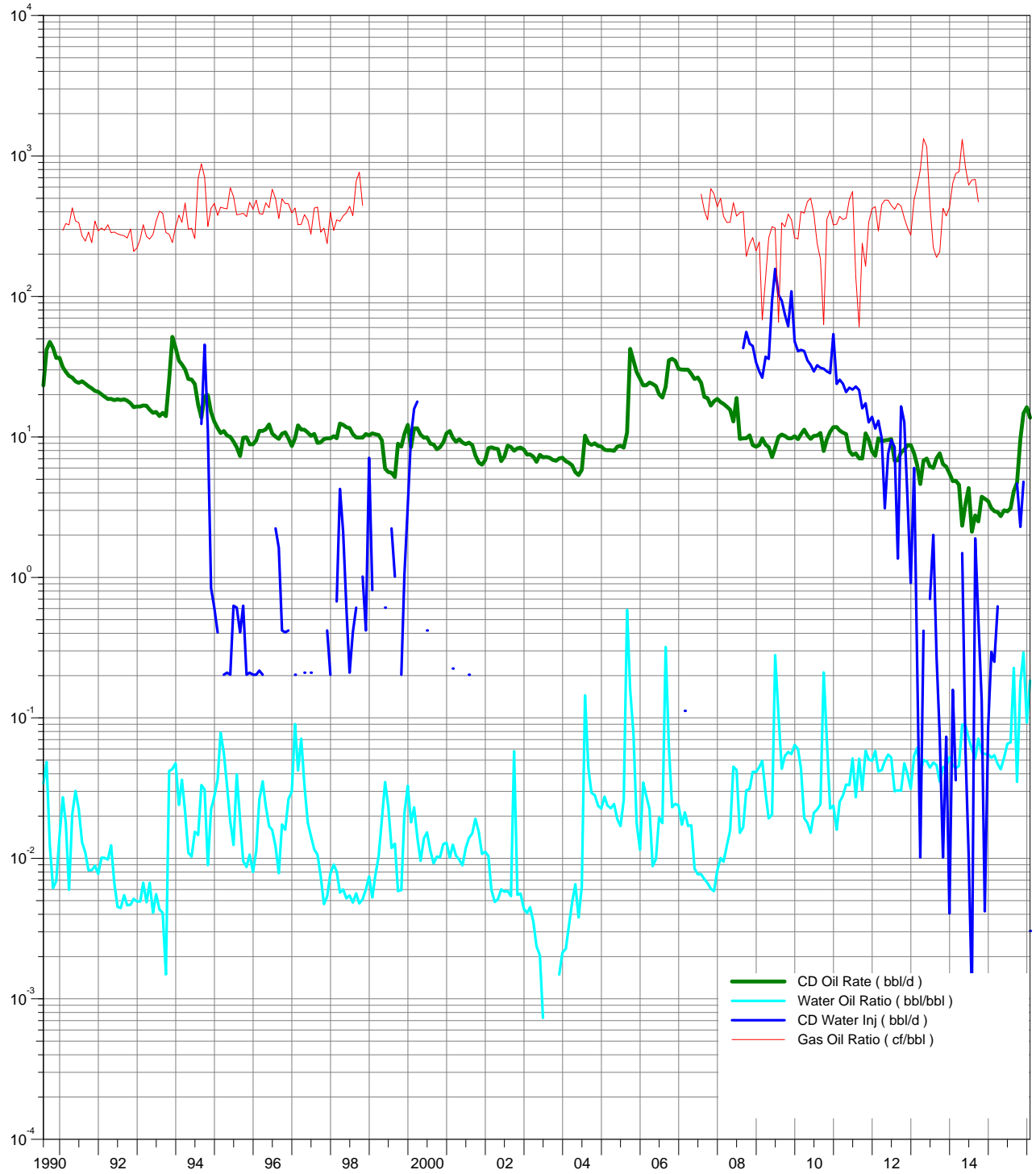
# Calendar Day Production for Pattern: 02-16 Set: PIERSON UNIT Total

Cumulative Oil Prod : 210.33 Mbbbl



# Calendar Day Production for Pattern: 02-17 Set: PIERSON UNIT Total

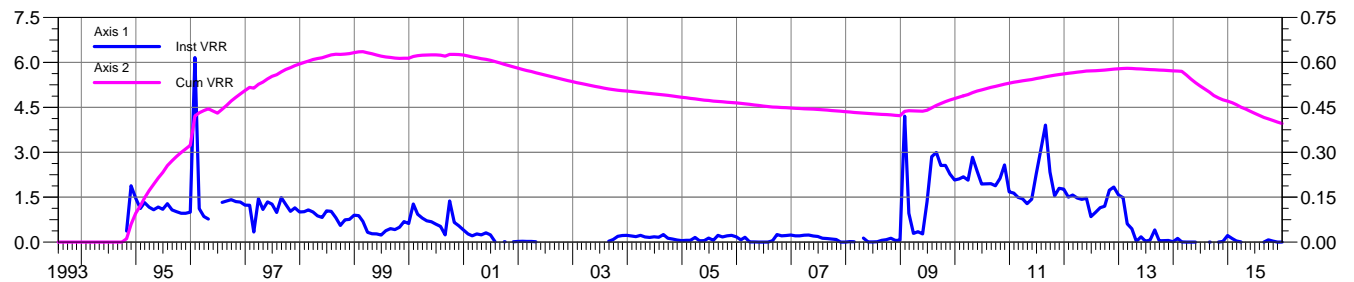
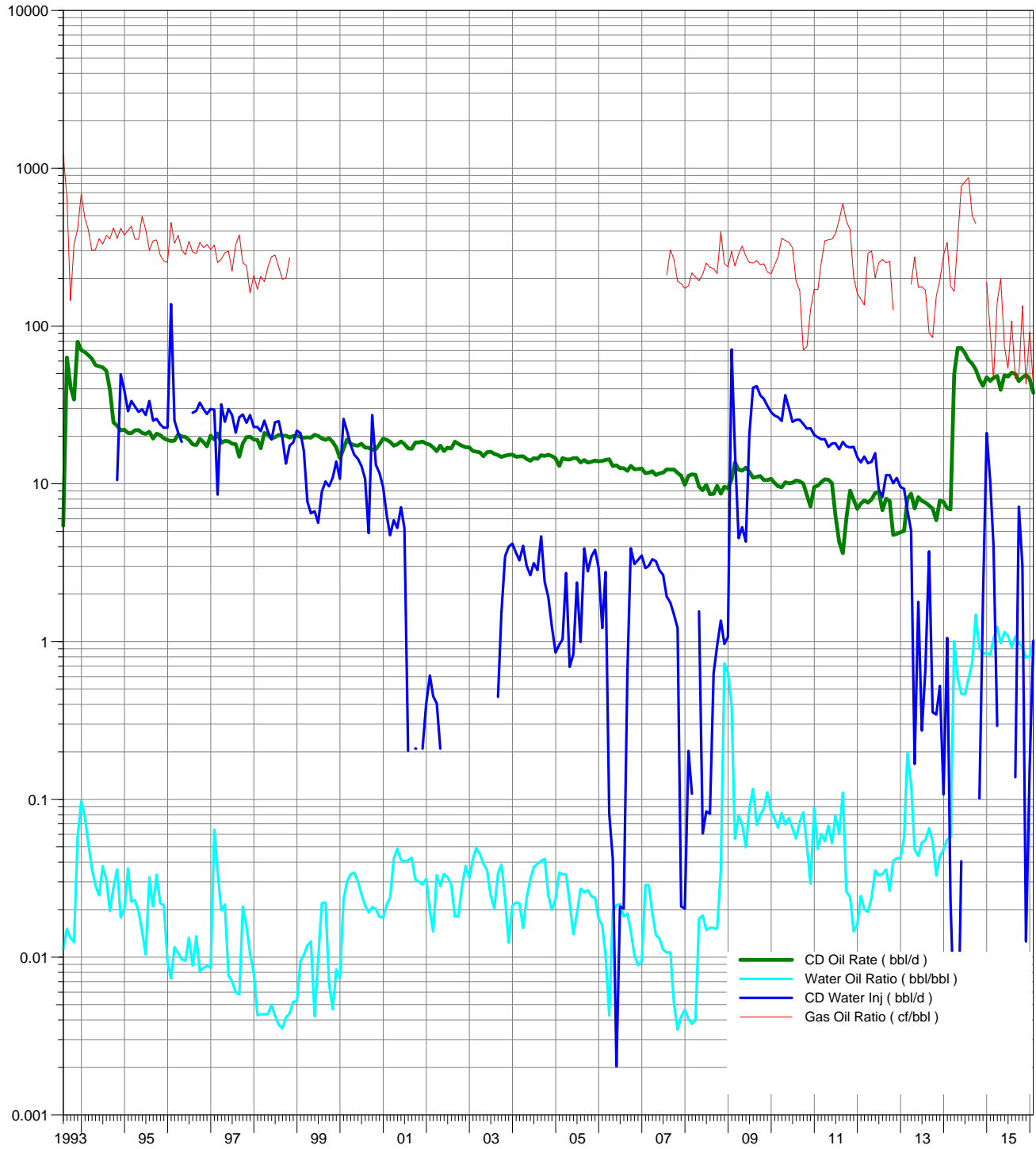
Cumulative Oil Prod : 120.85 Mbbl





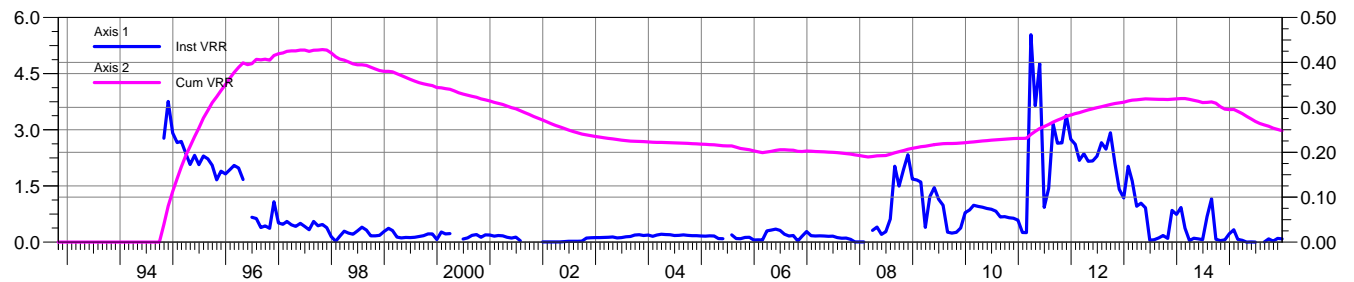
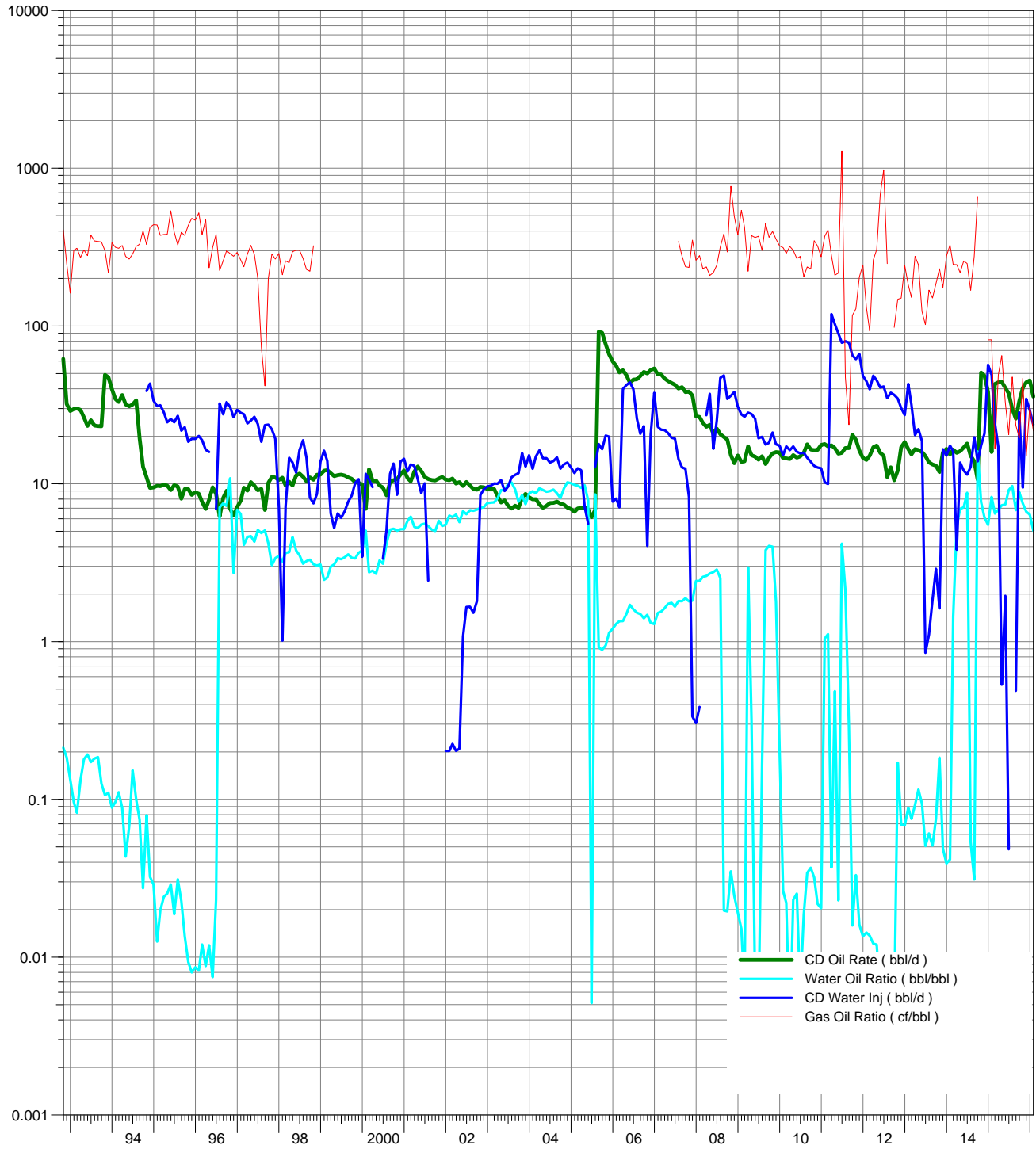
# Calendar Day Production for Pattern: 02-08 Set: PIERSON UNIT Total

Cumulative Oil Prod : 160.91 Mbbl



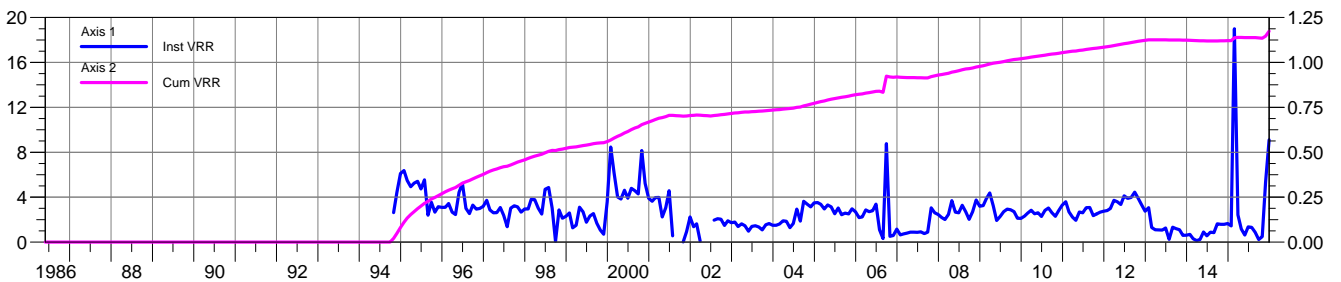
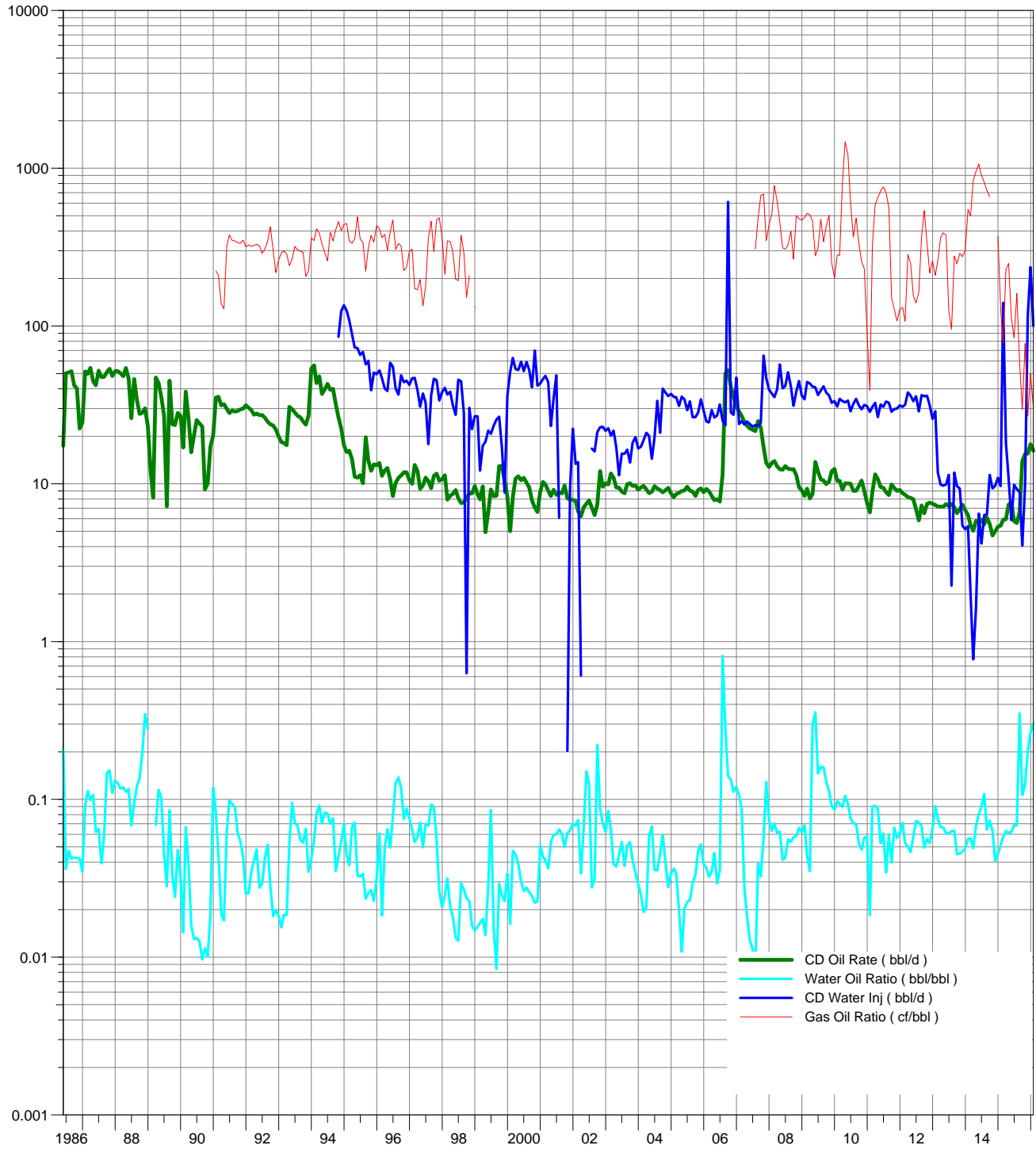
# Calendar Day Production for Pattern: 02-09 Set: PIERSON UNIT Total

Cumulative Oil Prod : 163.91 Mbbl



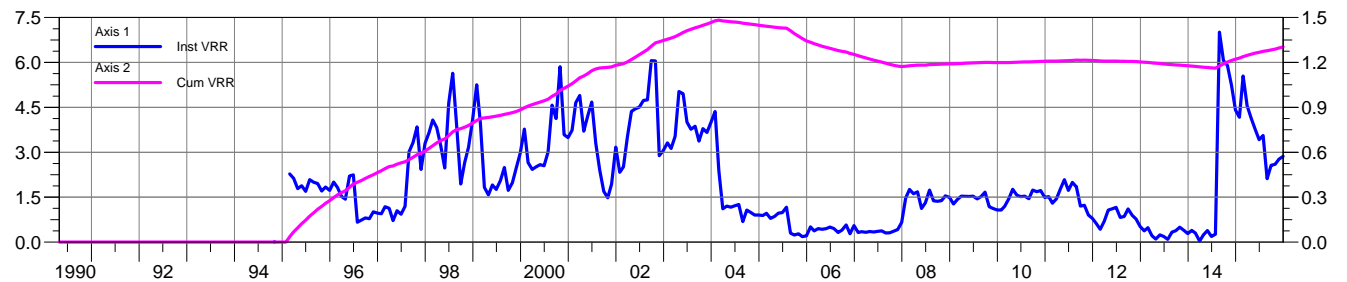
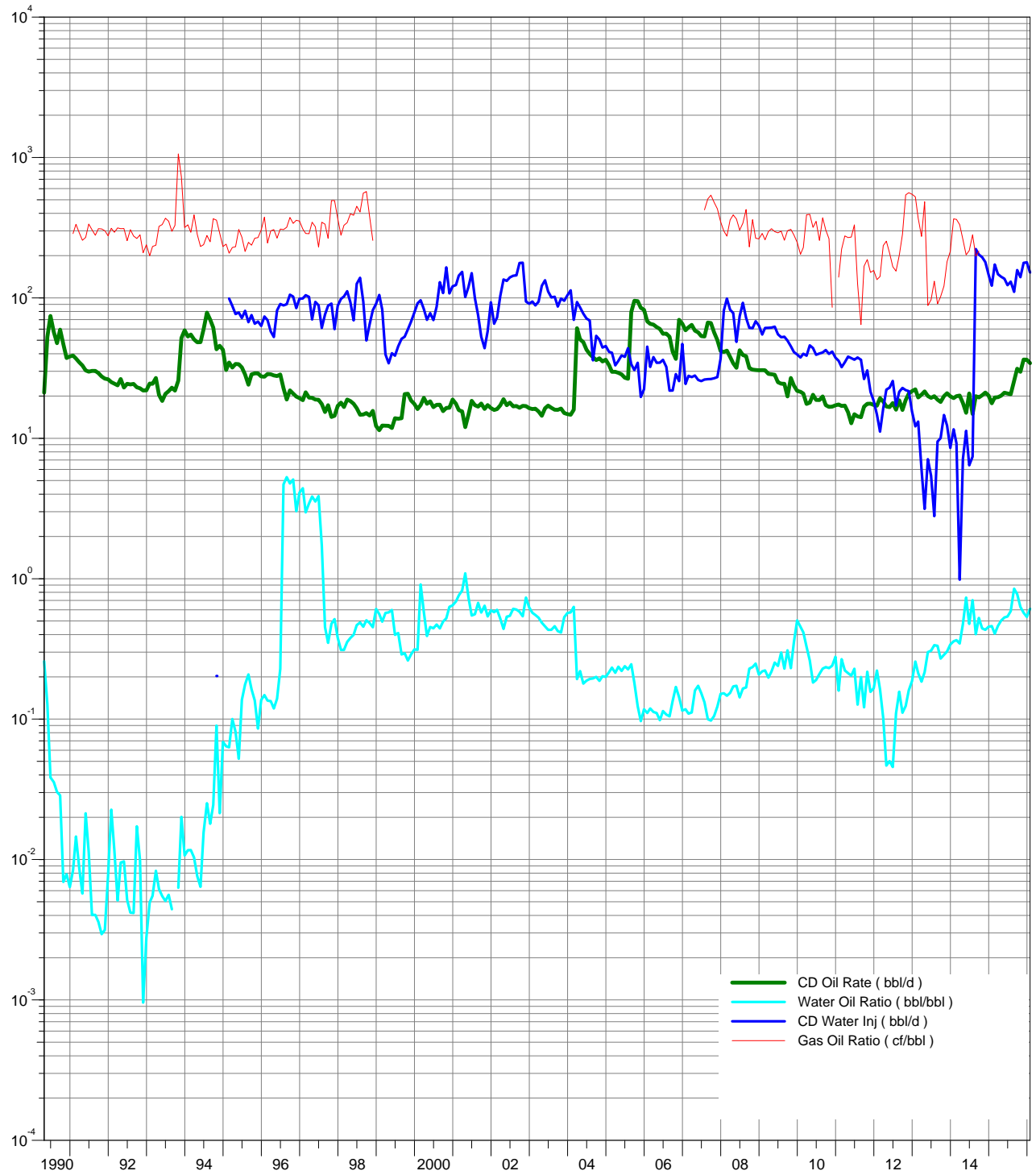
# Calendar Day Production for Pattern: 04-15 Set: PIERSON UNIT Total

Cumulative Oil Prod : 184.80 Mbbl



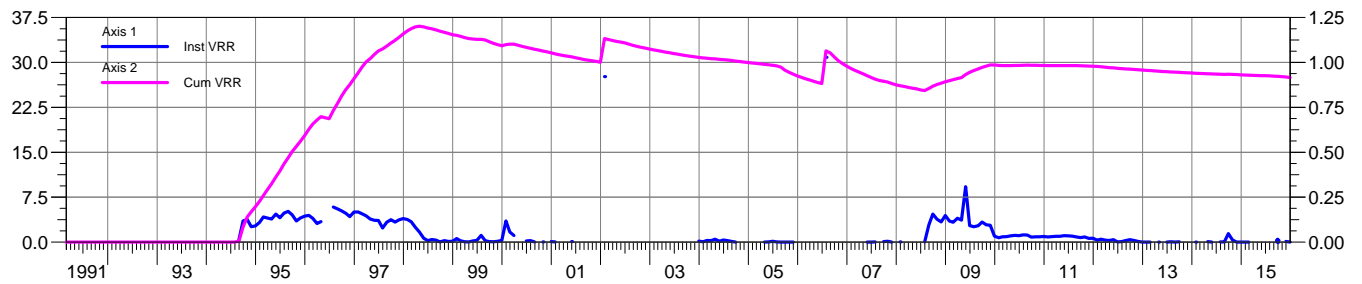
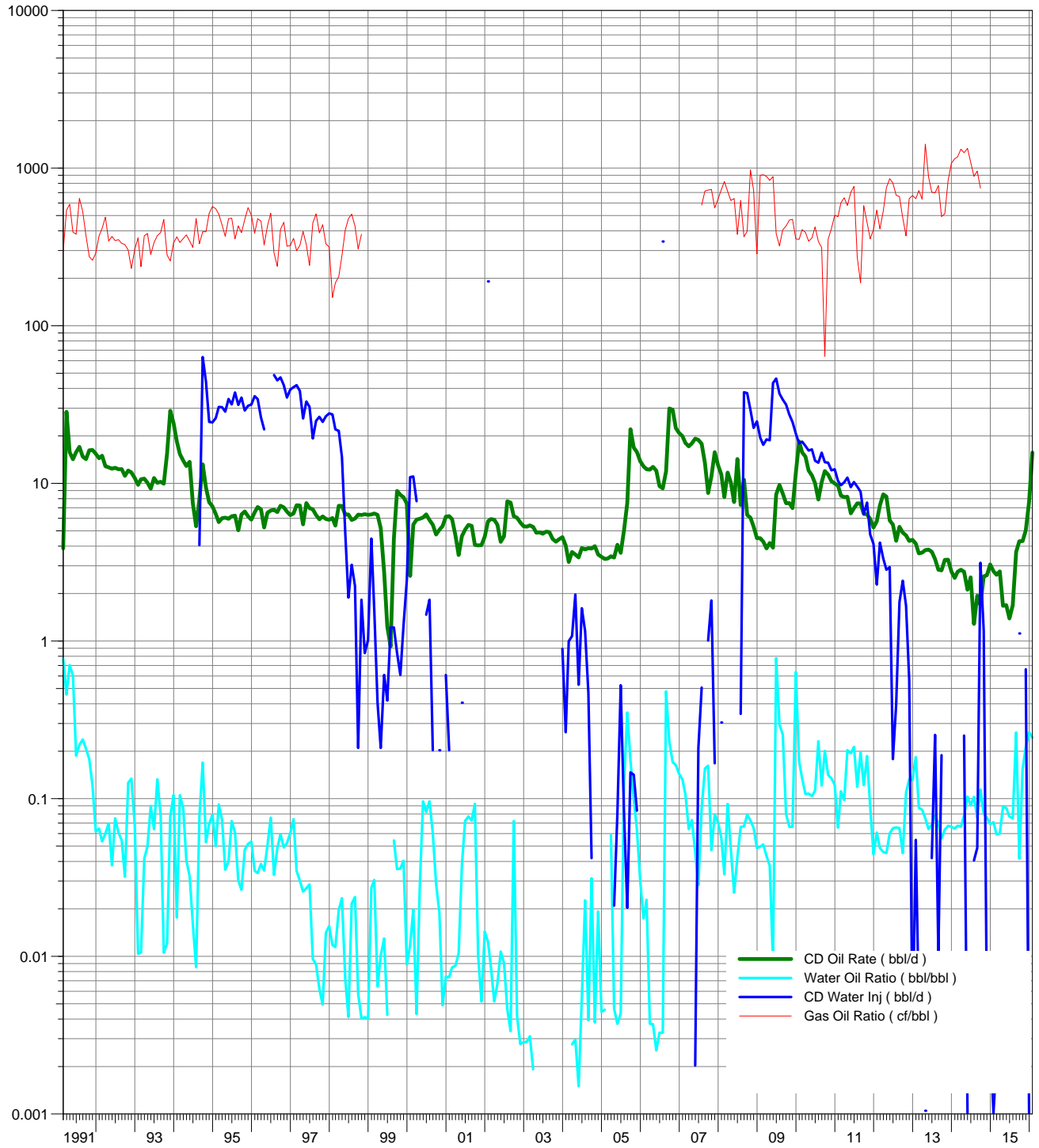
# Calendar Day Production for Pattern: 04-16 Set: PIERSON UNIT Total

Cumulative Oil Prod : 267.56 Mbbbl



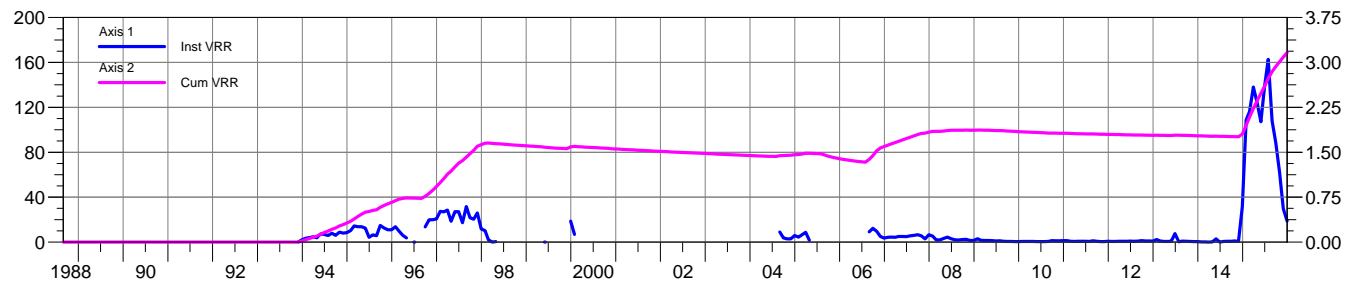
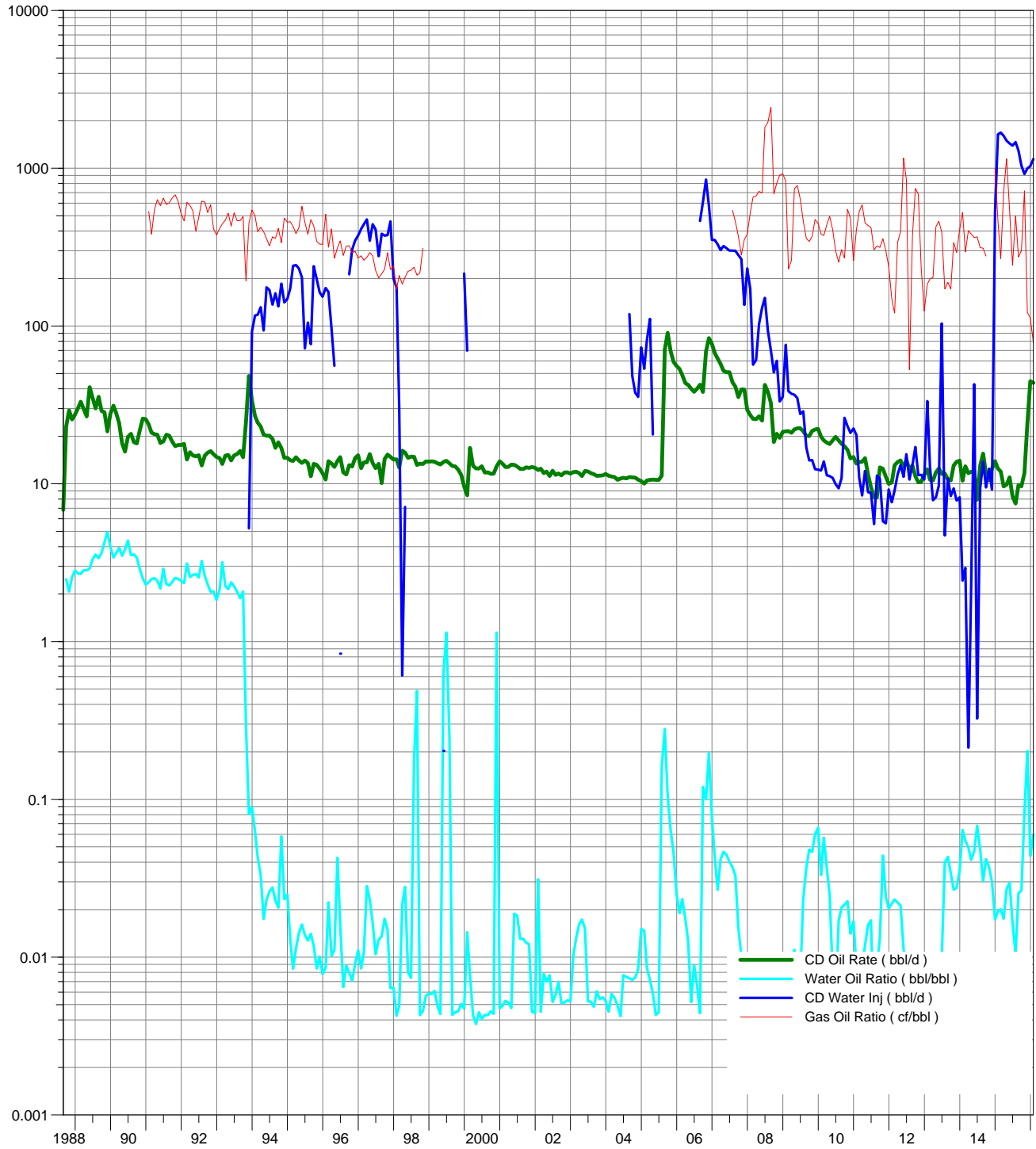
# Calendar Day Production for Pattern: 04-17 Set: PIERSON UNIT Total

Cumulative Oil Prod : 72.47 Mbbl



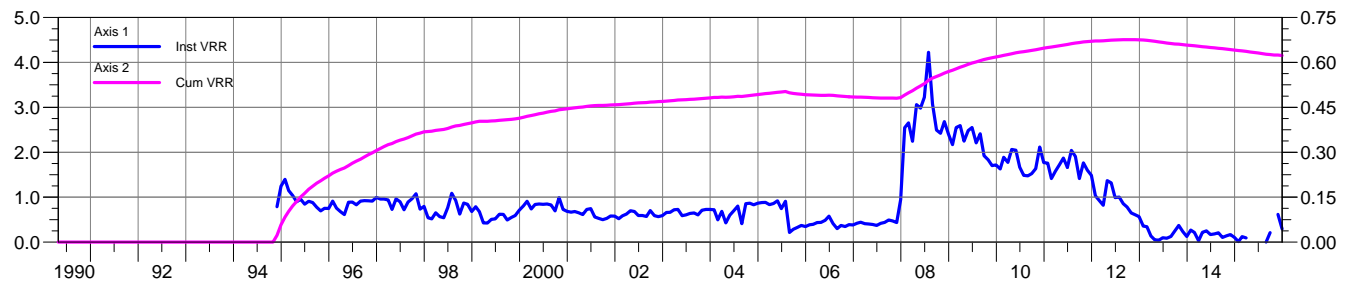
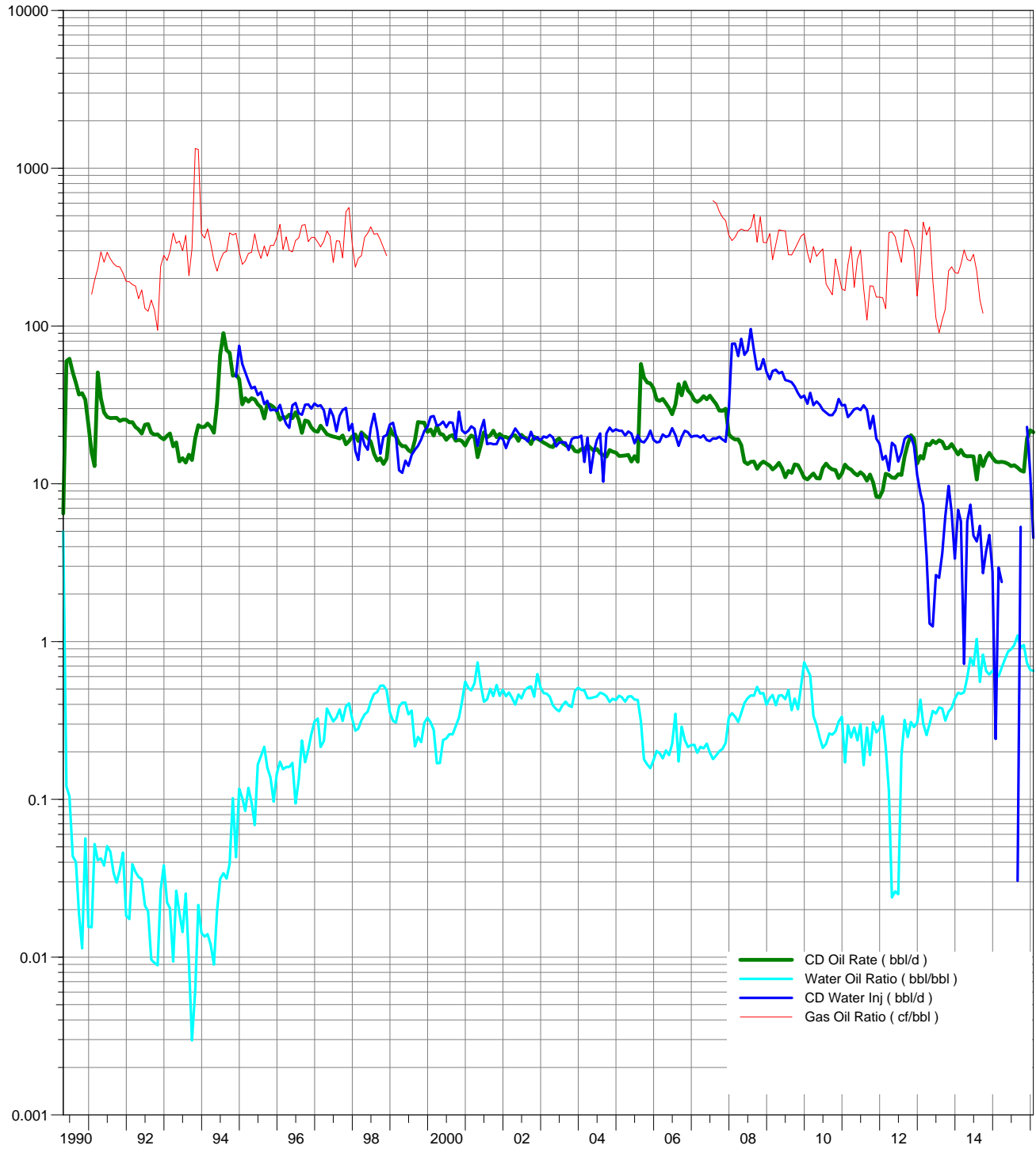
# Calendar Day Production for Pattern: 04-09 Set: PIERSON UNIT Total

Cumulative Oil Prod : 193.38 Mbbl



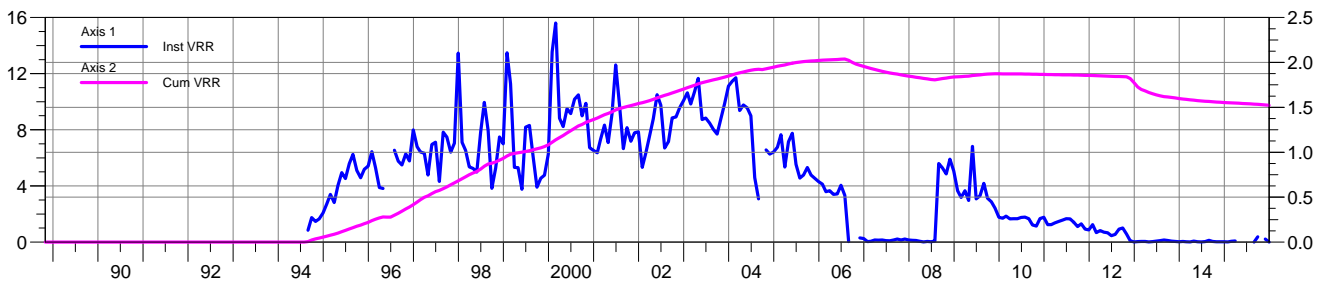
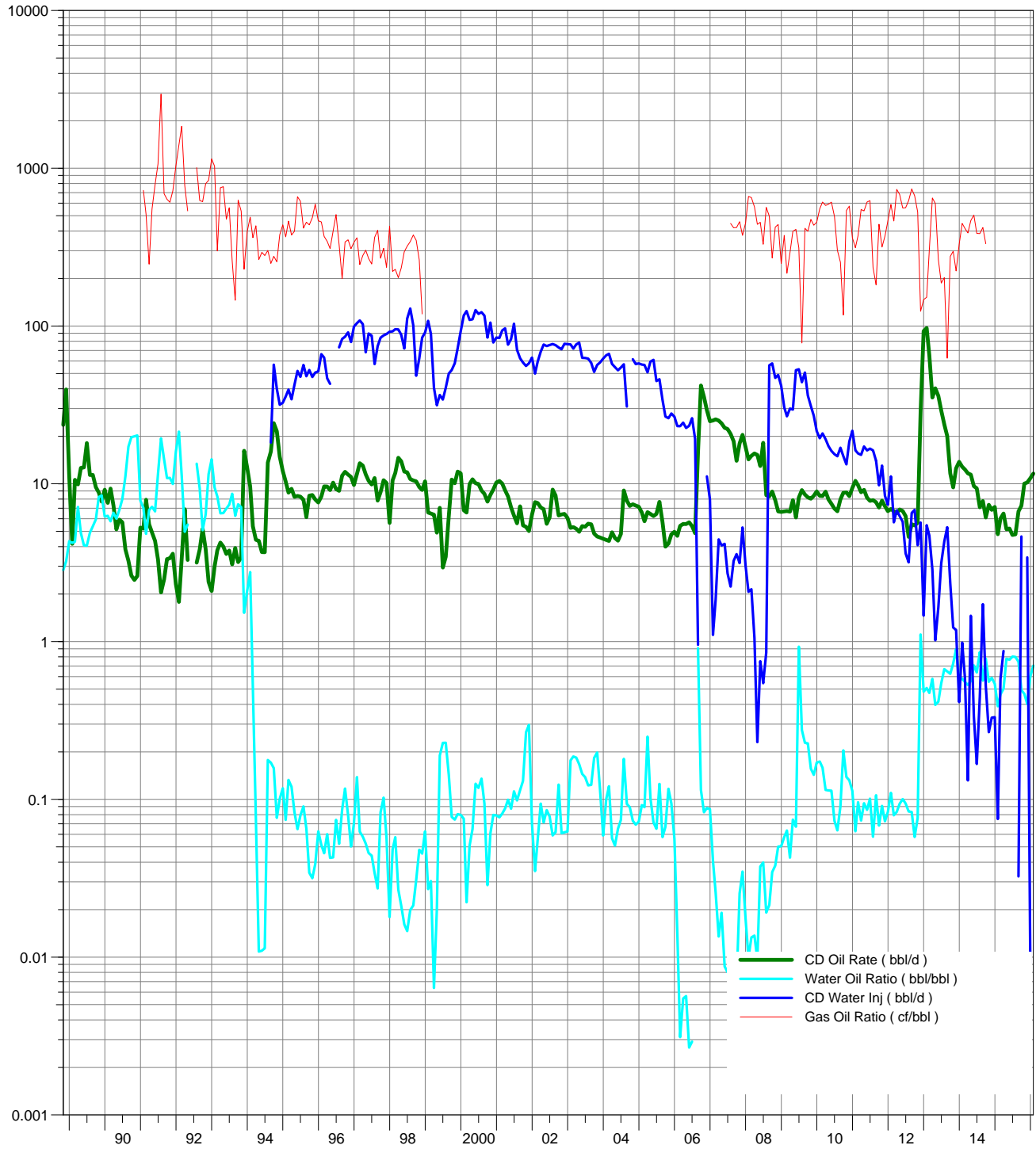
# Calendar Day Production for Pattern: 06-16 Set: PIERSON UNIT Total

Cumulative Oil Prod : 203.77 Mbbl



# Calendar Day Production for Pattern: 06-17 Set: PIERSON UNIT Total

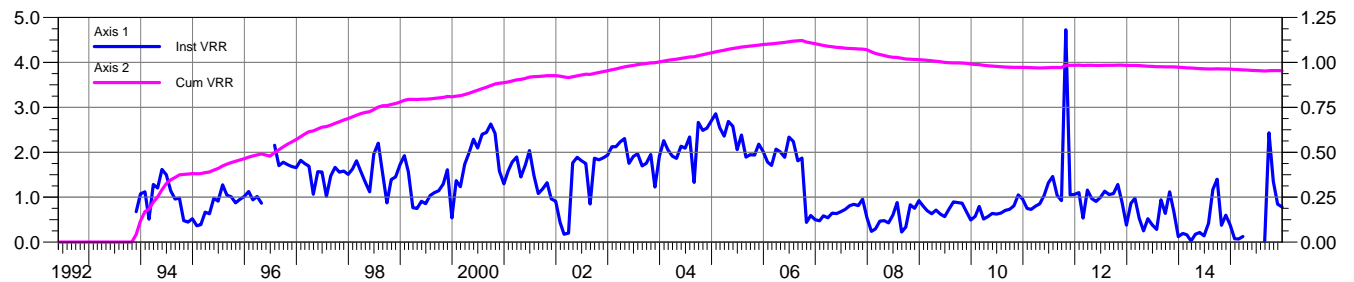
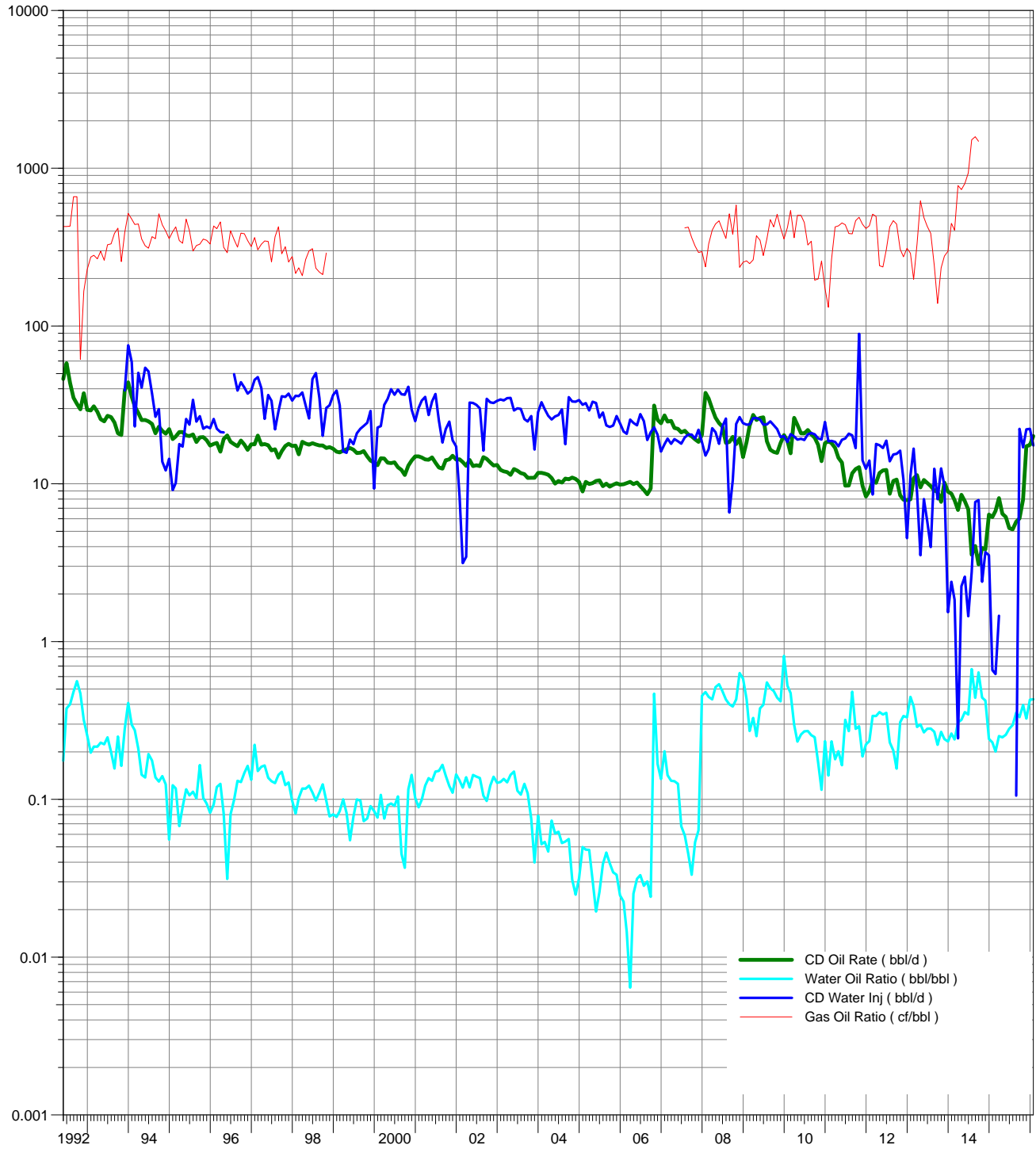
Cumulative Oil Prod : 98.53 Mbbl





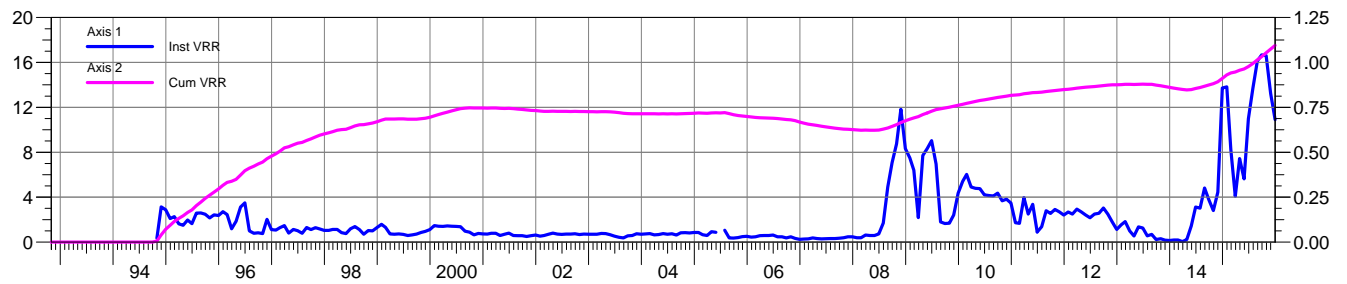
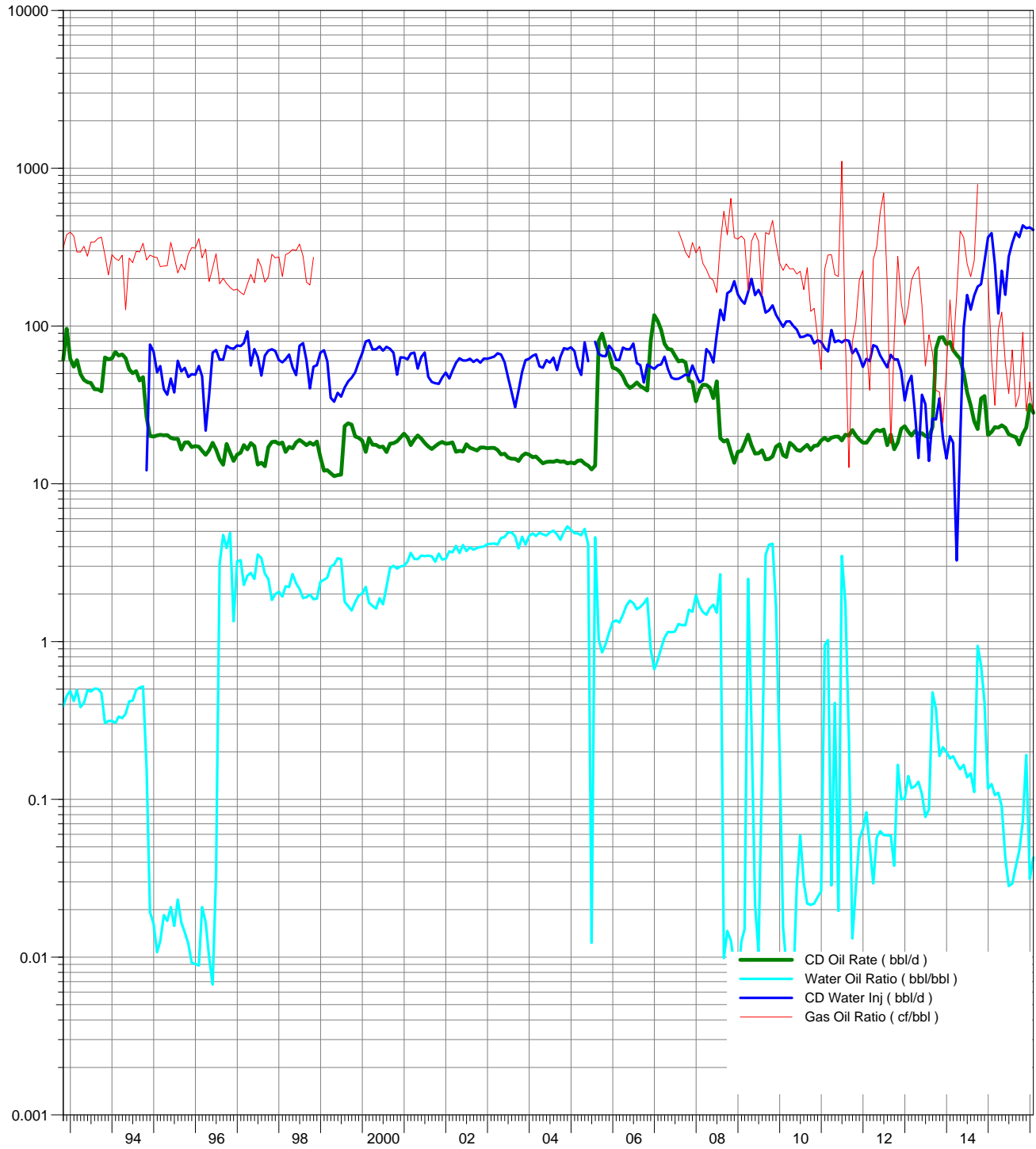
# Calendar Day Production for Pattern: 06-08 Set: PIERSON UNIT Total

Cumulative Oil Prod : 142.45 Mbbbl



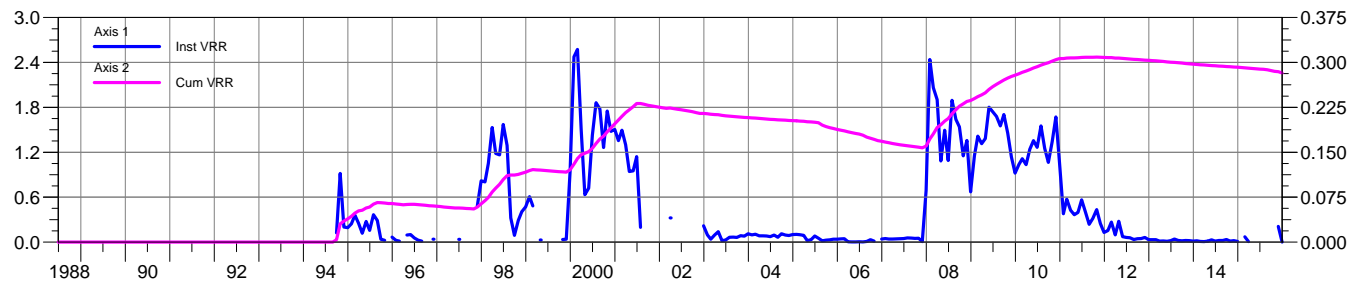
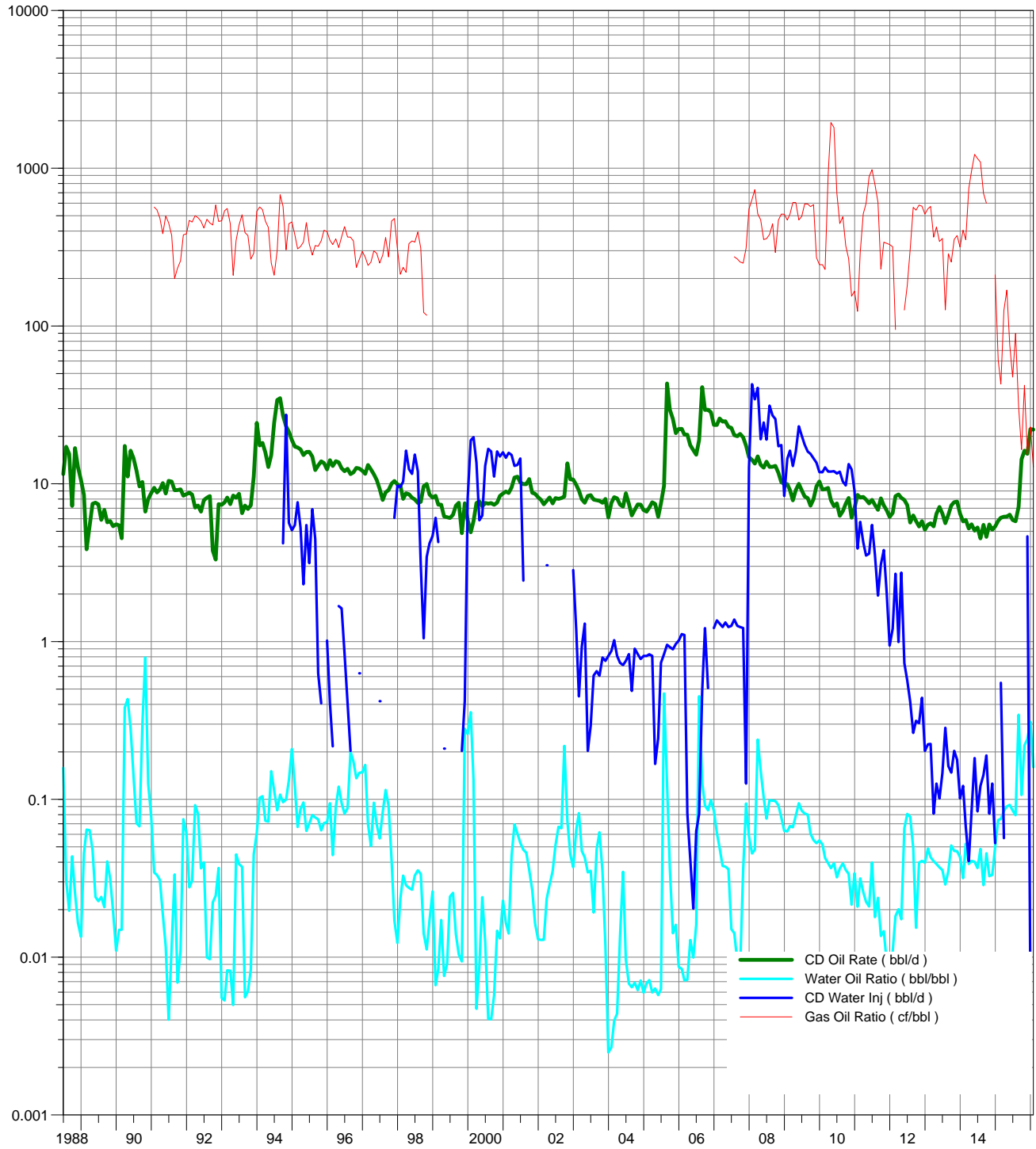
# Calendar Day Production for Pattern: 06-09 Set: PIERSON UNIT Total

Cumulative Oil Prod : 238.53 Mbbl



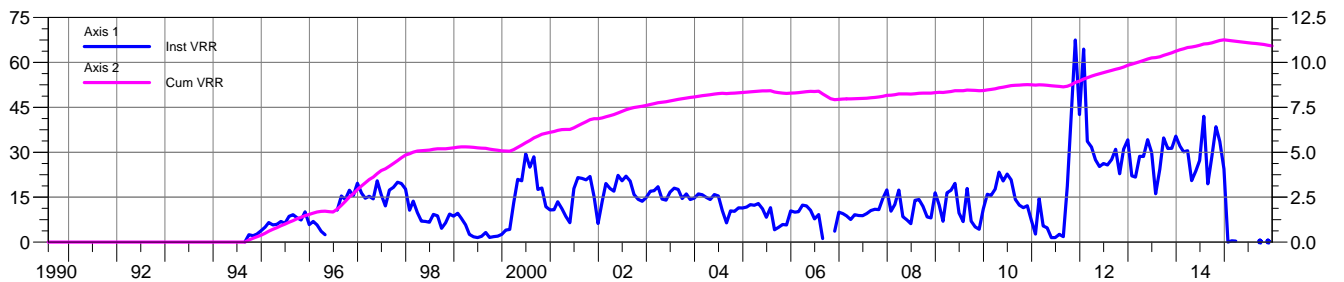
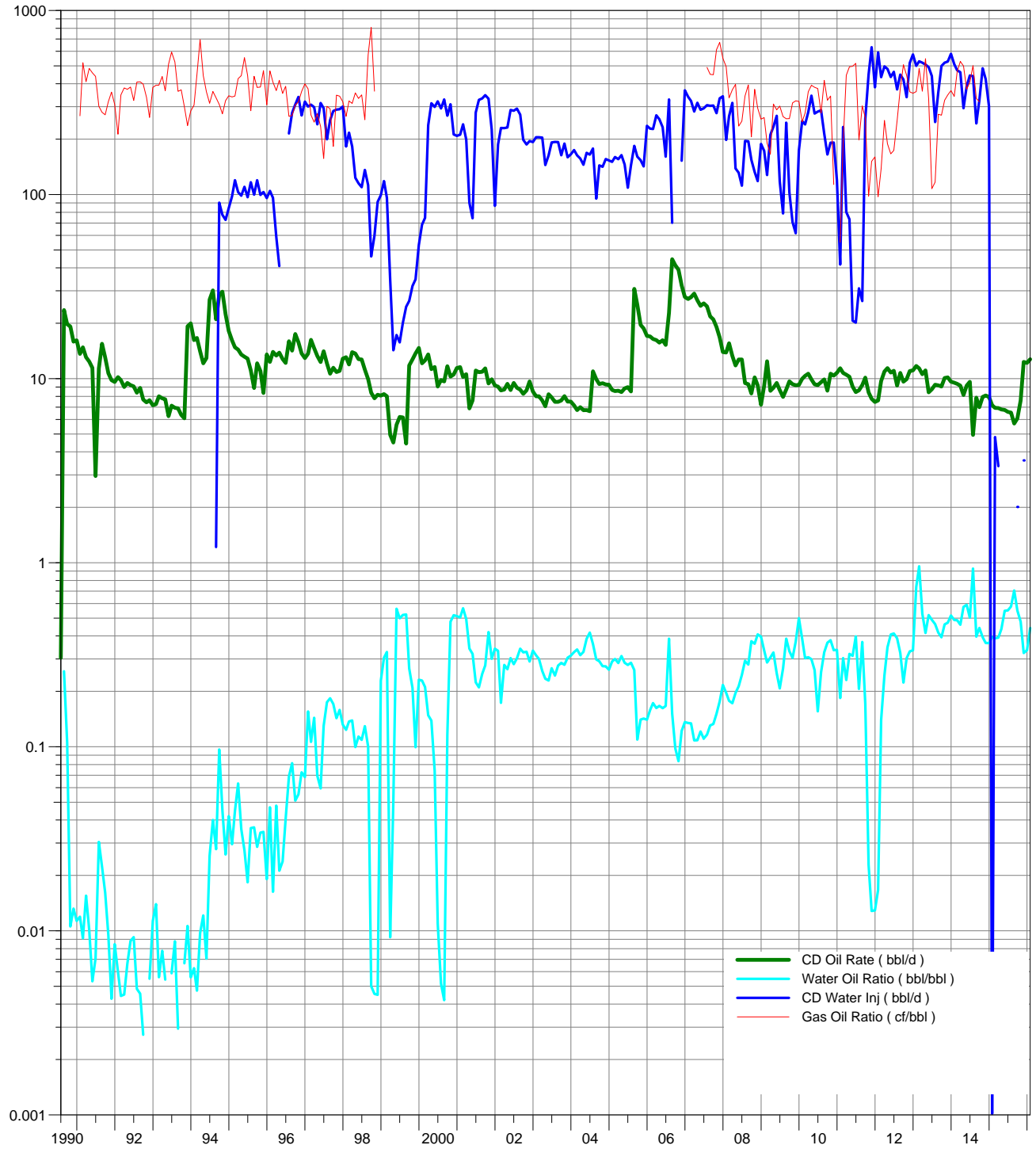
# Calendar Day Production for Pattern: 08-16 Set: PIERSON UNIT Total

Cumulative Oil Prod : 107.68 Mbbl



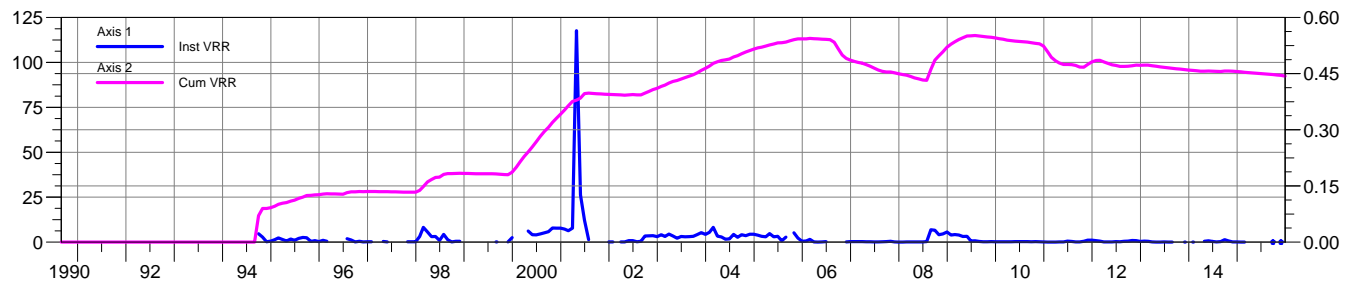
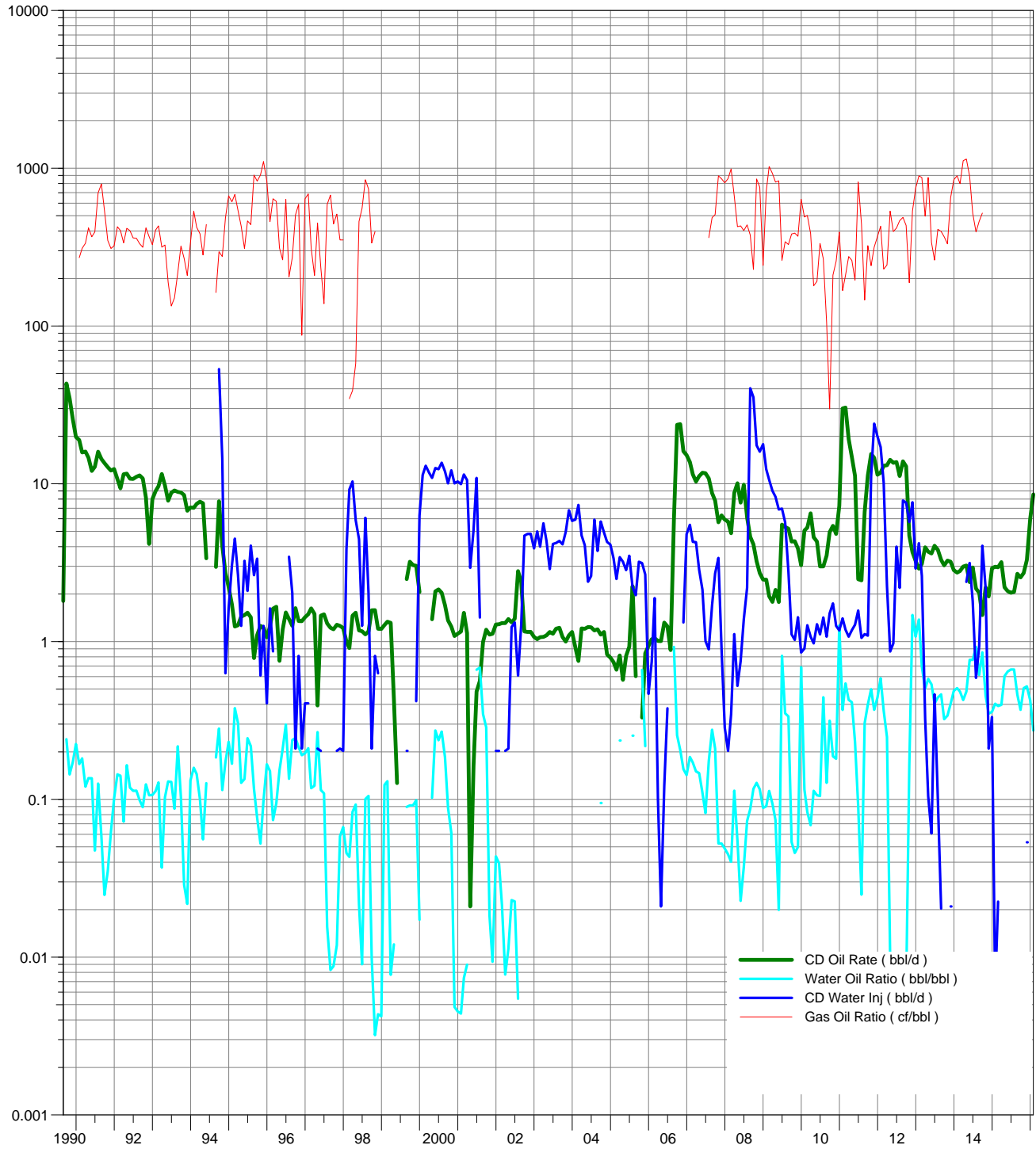
# Calendar Day Production for Pattern: 08-17 Set: PIERSON UNIT Total

Cumulative Oil Prod : 110.35 Mbbbl



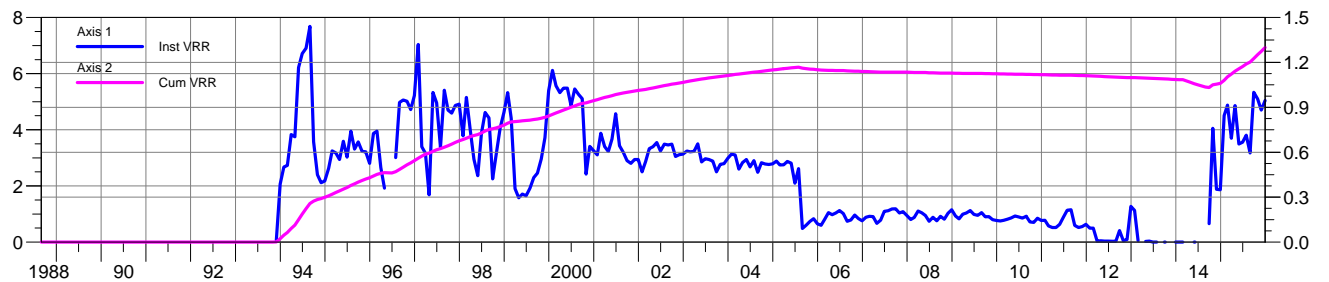
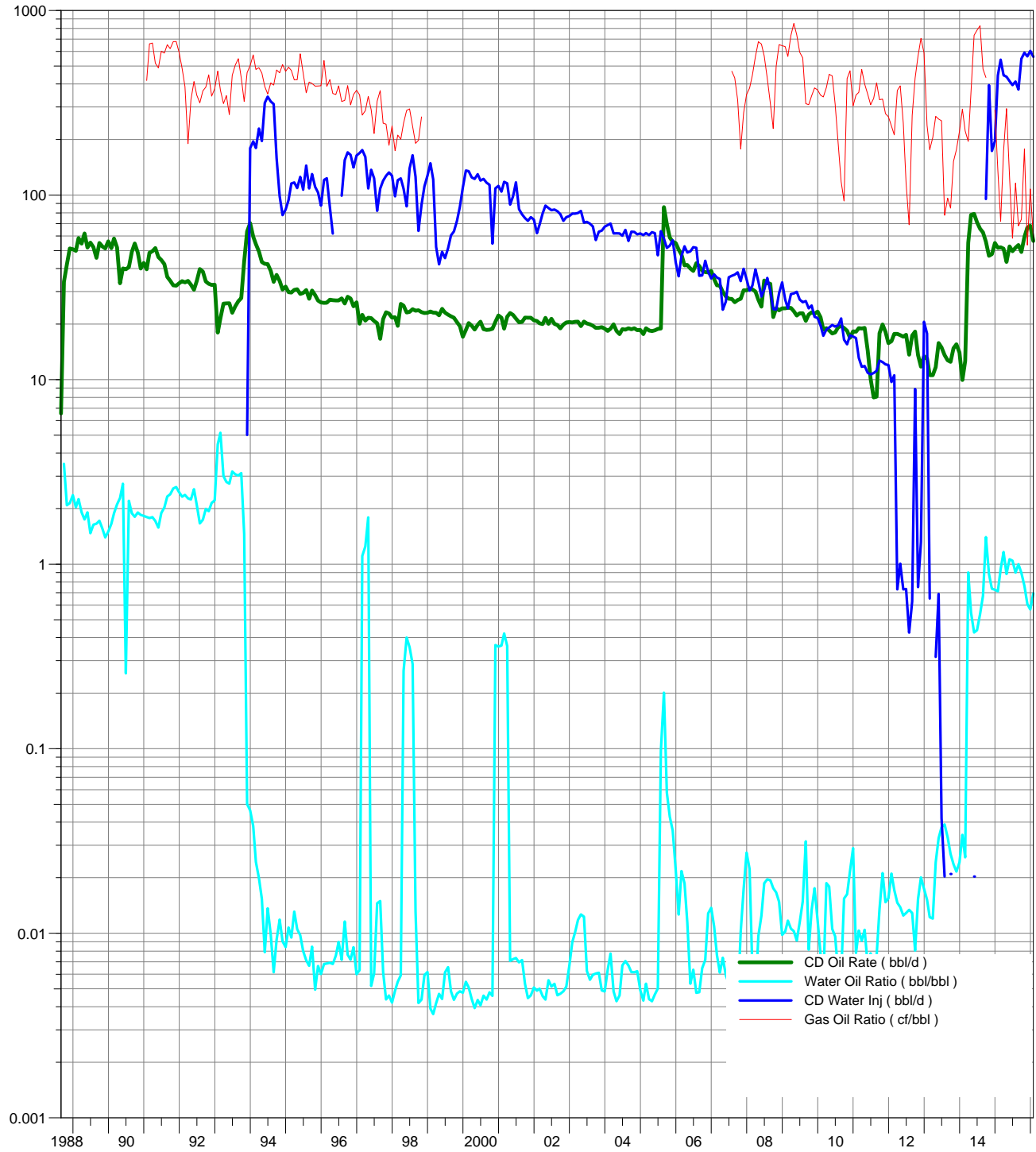
# Calendar Day Production for Pattern: 08-18 Set: PIERSON UNIT Total

Cumulative Oil Prod : 46.30 Mbbl



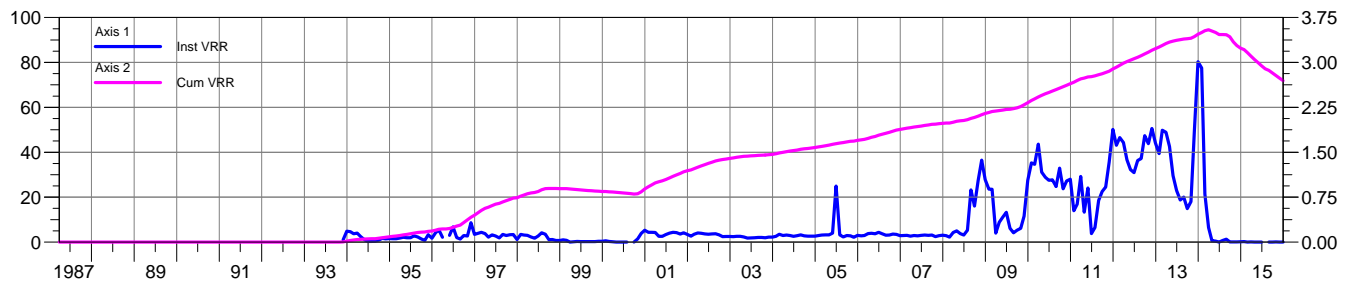
# Calendar Day Production for Pattern: 08-08 Set: PIERSON UNIT Total

Cumulative Oil Prod : 300.40 Mbbl



# Calendar Day Production for Pattern: 08-09 Set: PIERSON UNIT Total

Cumulative Oil Prod : 140.57 Mbbl



# Pattern: 02-08 Set: PIERSON UNIT Total

Axis 1 02-08

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

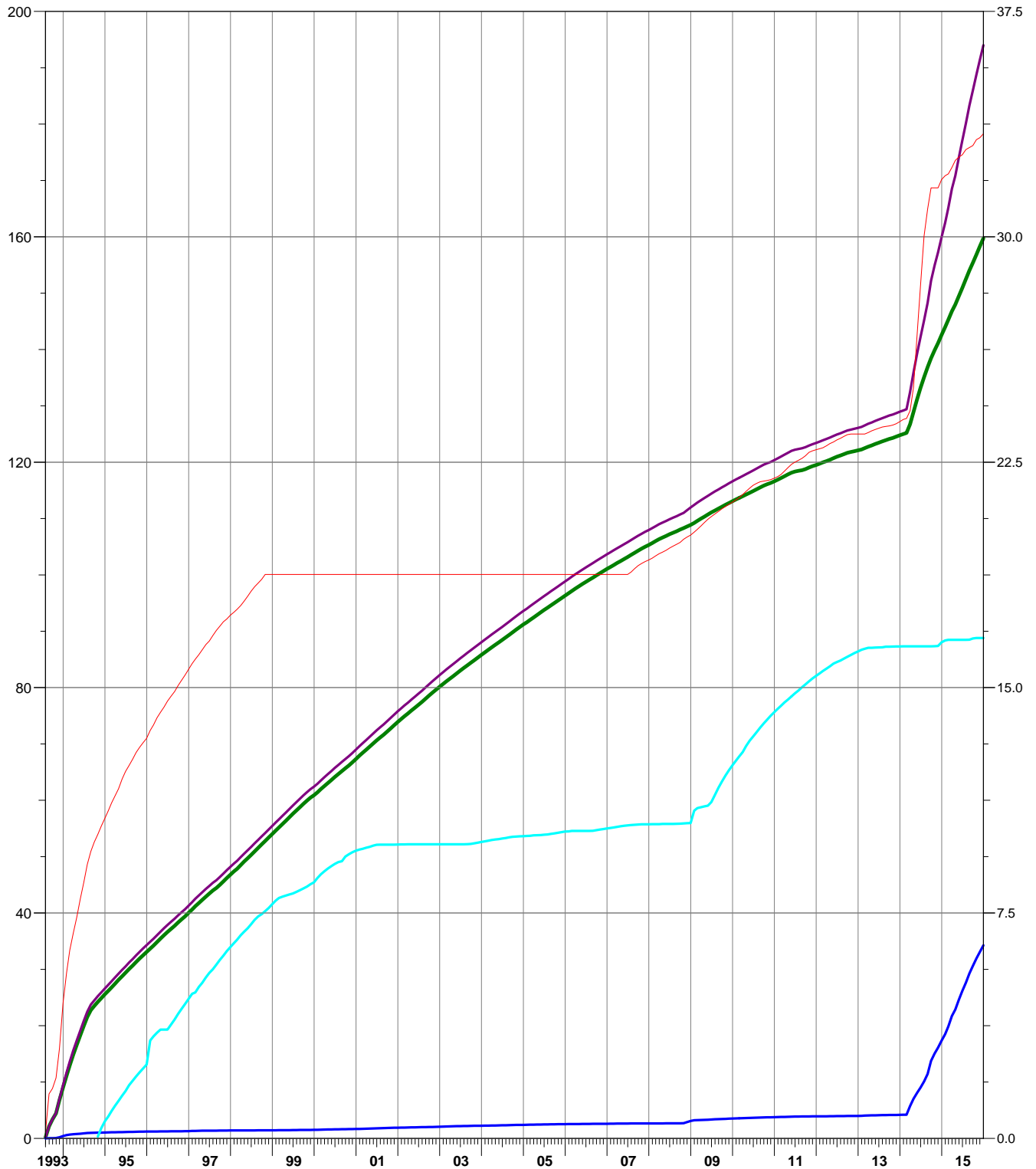
Cumulative Oil Prod : 122.11 Mbbl

Cumulative Liquid Prod : 126.10 Mbbl

Cumulative Water Prod : 3.99 Mbbl

Cumulative Water Inj : 86.42 Mbbl

Cumulative Gas Prod : 23.44 MMcf





# Pattern: 02-09 Set: PIERSON UNIT Total

Axis 1 02-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

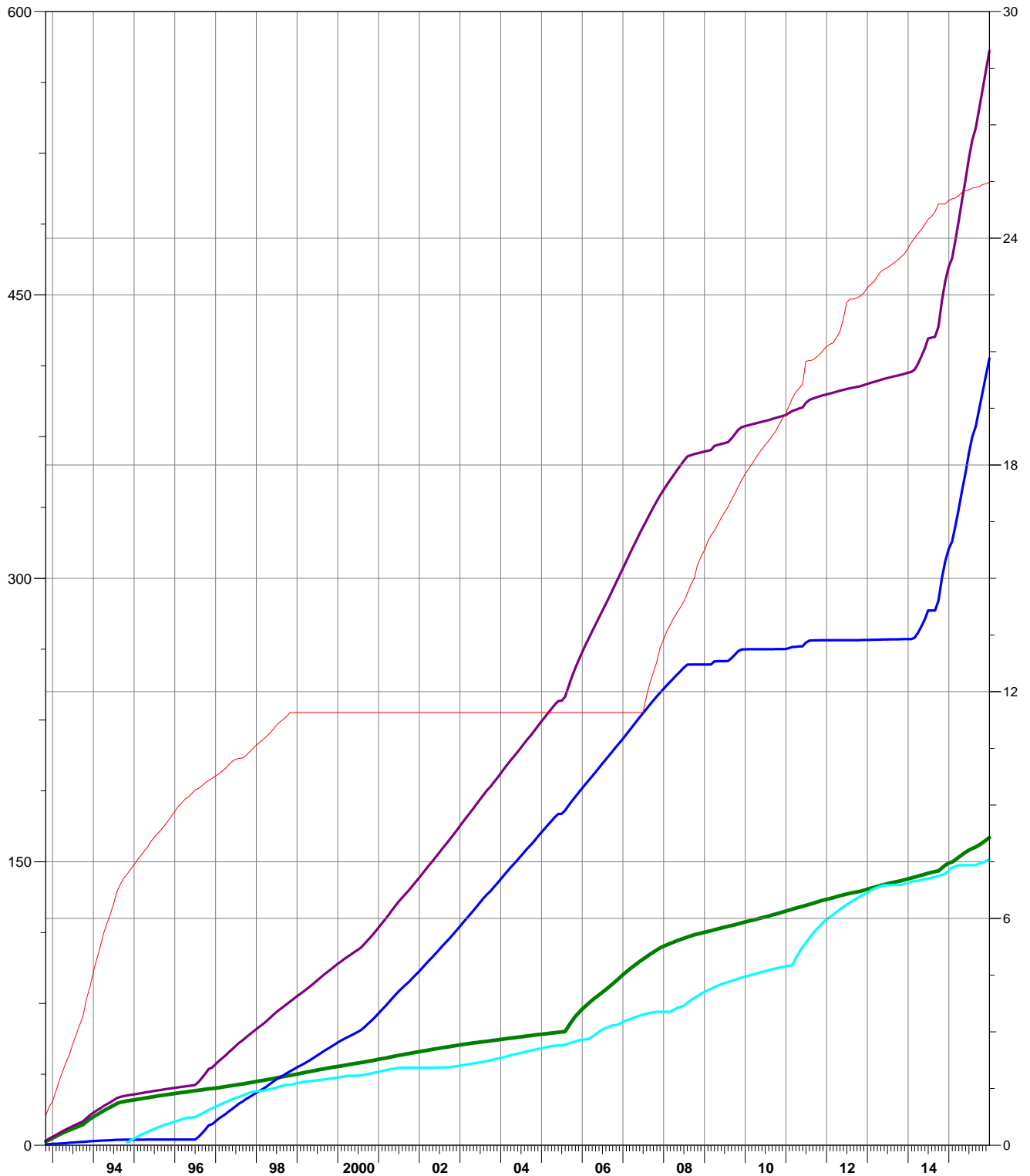
Cumulative Oil Prod : 135.47 Mbbl

Cumulative Liquid Prod : 402.88 Mbbl

Cumulative Water Prod : 267.41 Mbbl

Cumulative Water Inj : 133.51 Mbbl

Cumulative Gas Prod : 22.69 MMcf



# Pattern: 02-16 Set: PIERSON UNIT Total

Axis 1 02-16

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

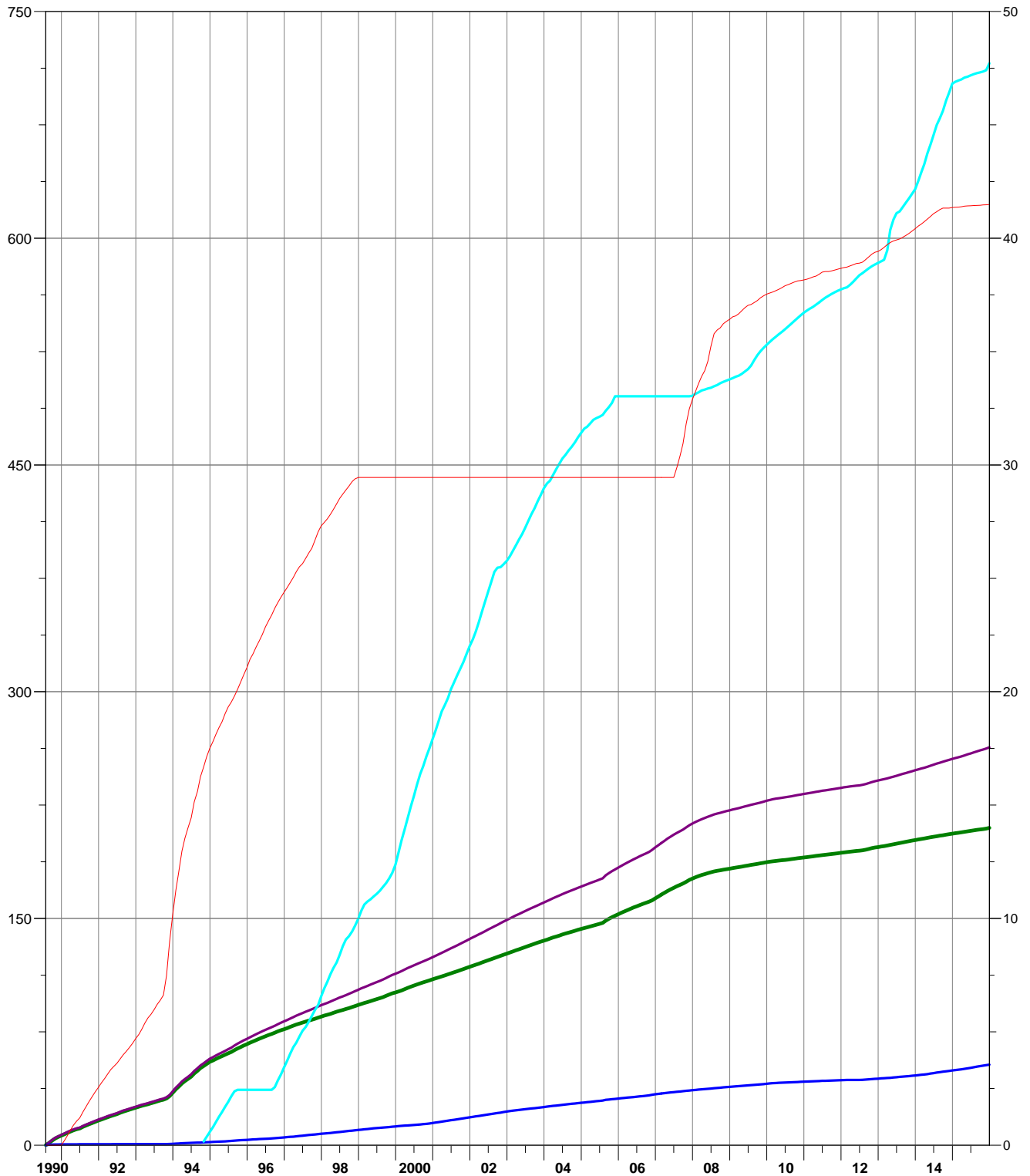
Cumulative Oil Prod : 197.22 Mbbl

Cumulative Liquid Prod : 241.23 Mbbl

Cumulative Water Prod : 44.00 Mbbl

Cumulative Water Inj : 583.66 Mbbl

Cumulative Gas Prod : 39.42 MMcf



# Pattern: 02-17 Set: PIERSON UNIT Total

Axis 1 02-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

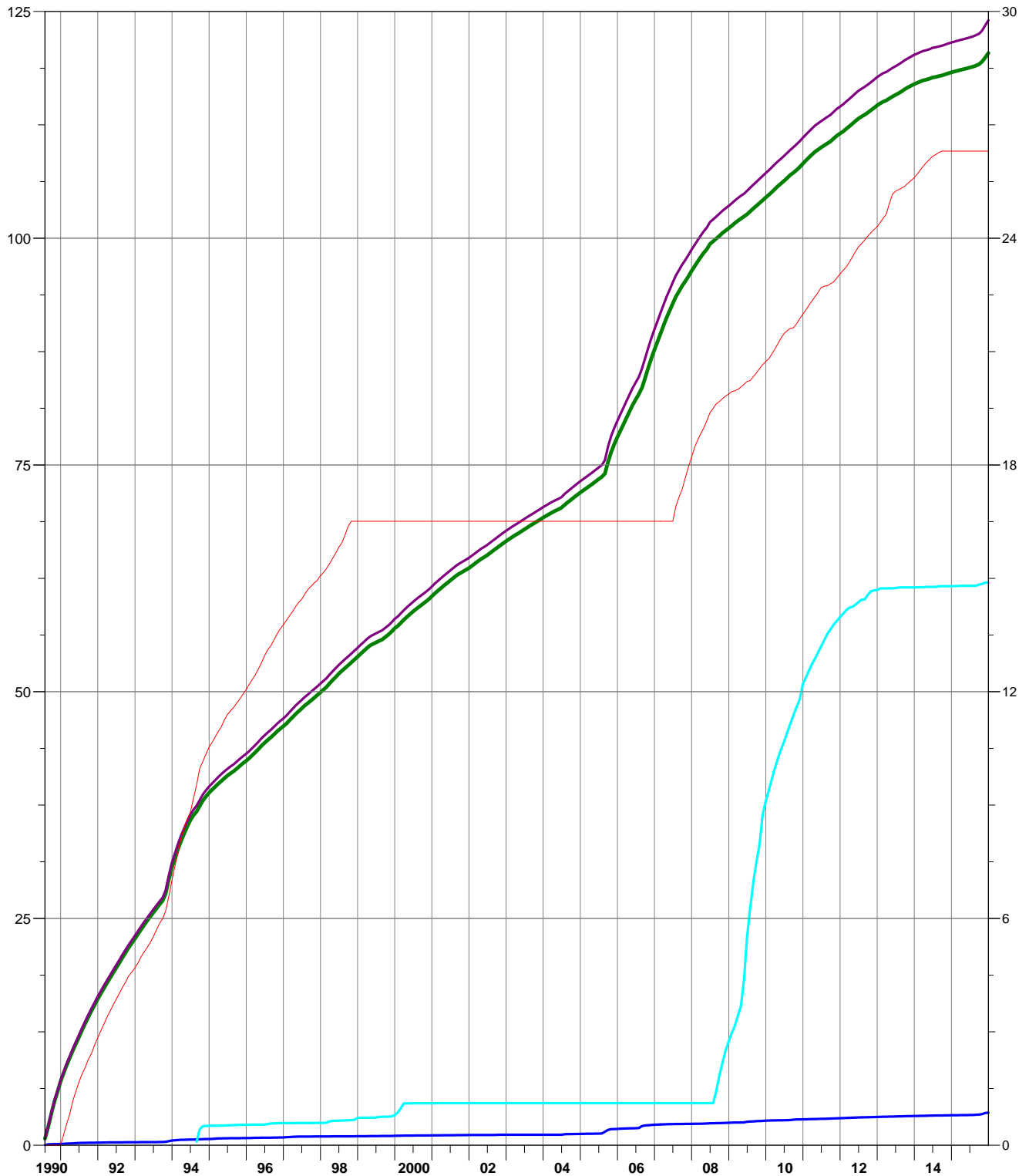
Cumulative Oil Prod : 114.64 Mbbl

Cumulative Liquid Prod : 117.75 Mbbl

Cumulative Water Prod : 3.11 Mbbl

Cumulative Water Inj : 61.20 Mbbl

Cumulative Gas Prod : 24.30 MMcf



# Pattern: 04-09 Set: PIERSON UNIT Total

Axis 1 04-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

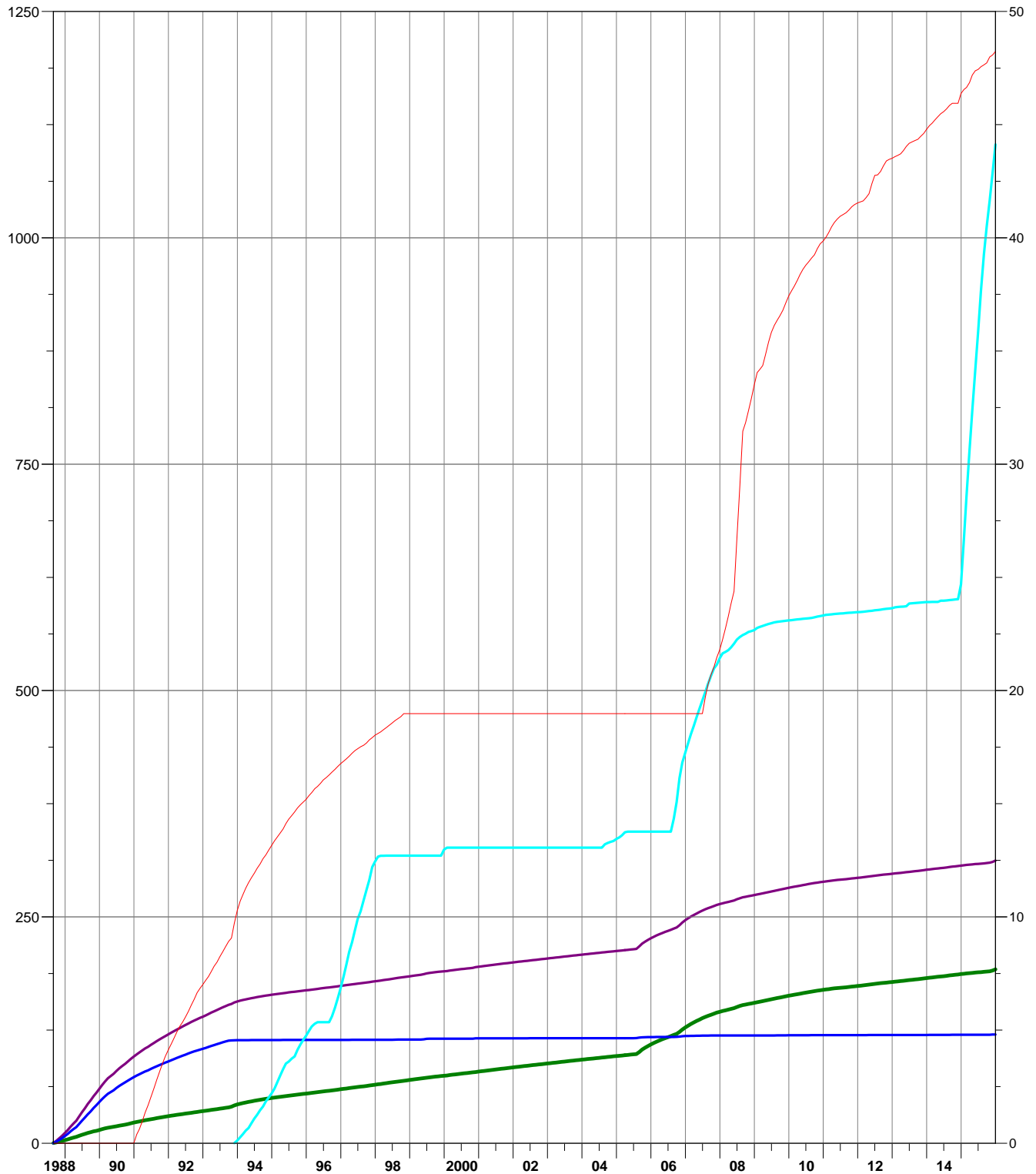
Cumulative Oil Prod : 178.09 Mbbl

Cumulative Liquid Prod : 297.60 Mbbl

Cumulative Water Prod : 119.51 Mbbl

Cumulative Water Inj : 590.86 Mbbl

Cumulative Gas Prod : 43.51 MMcf



# Pattern: 04-15 Set: PIERSON UNIT Total

Axis 1 04-15

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

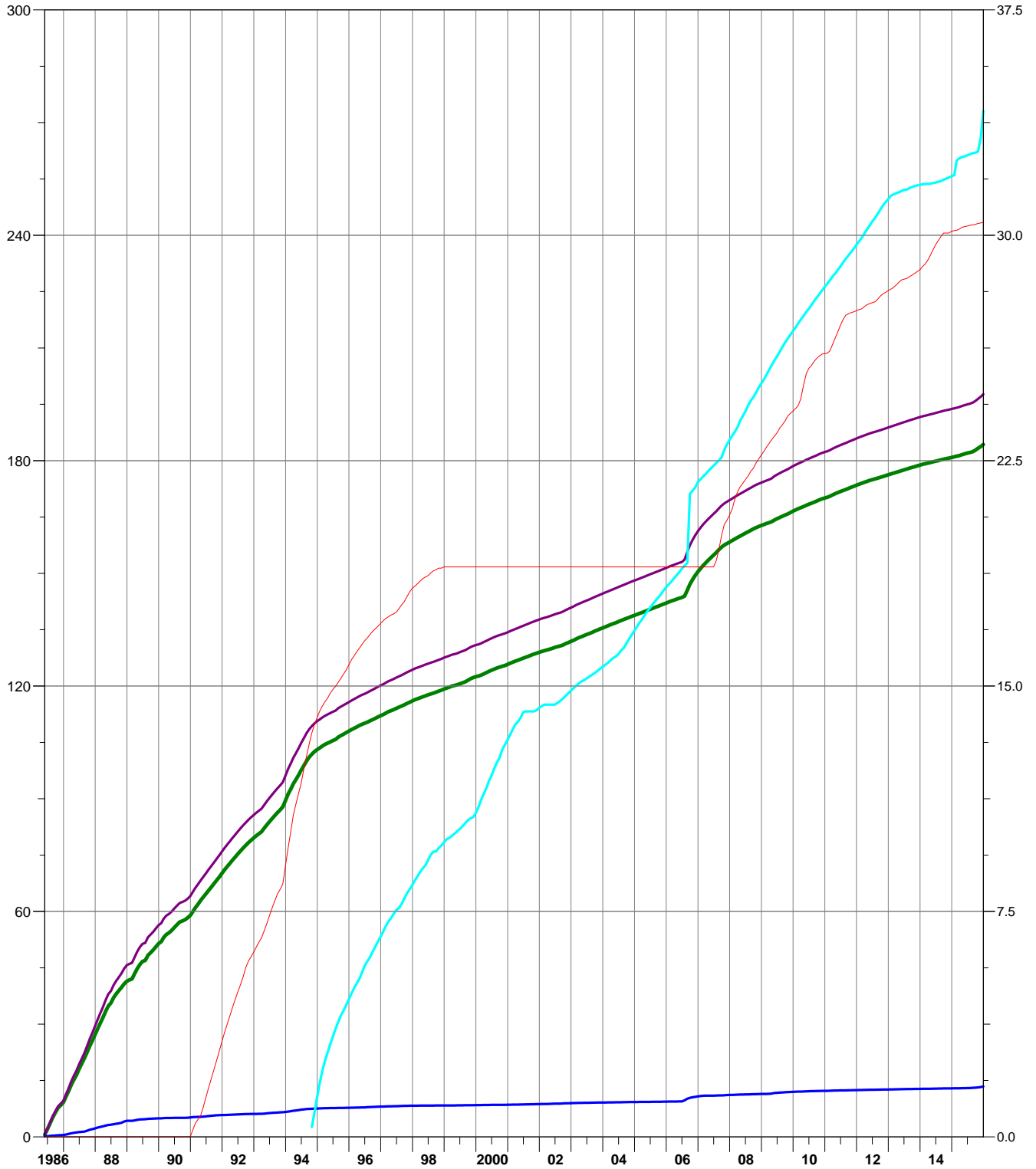
Cumulative Oil Prod : 176.22 Mbbl

Cumulative Liquid Prod : 188.83 Mbbl

Cumulative Water Prod : 12.61 Mbbl

Cumulative Water Inj : 249.62 Mbbl

Cumulative Gas Prod : 28.16 MMcf



# Pattern: 04-16 Set: PIERSON UNIT Total

Axis 1 04-16

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

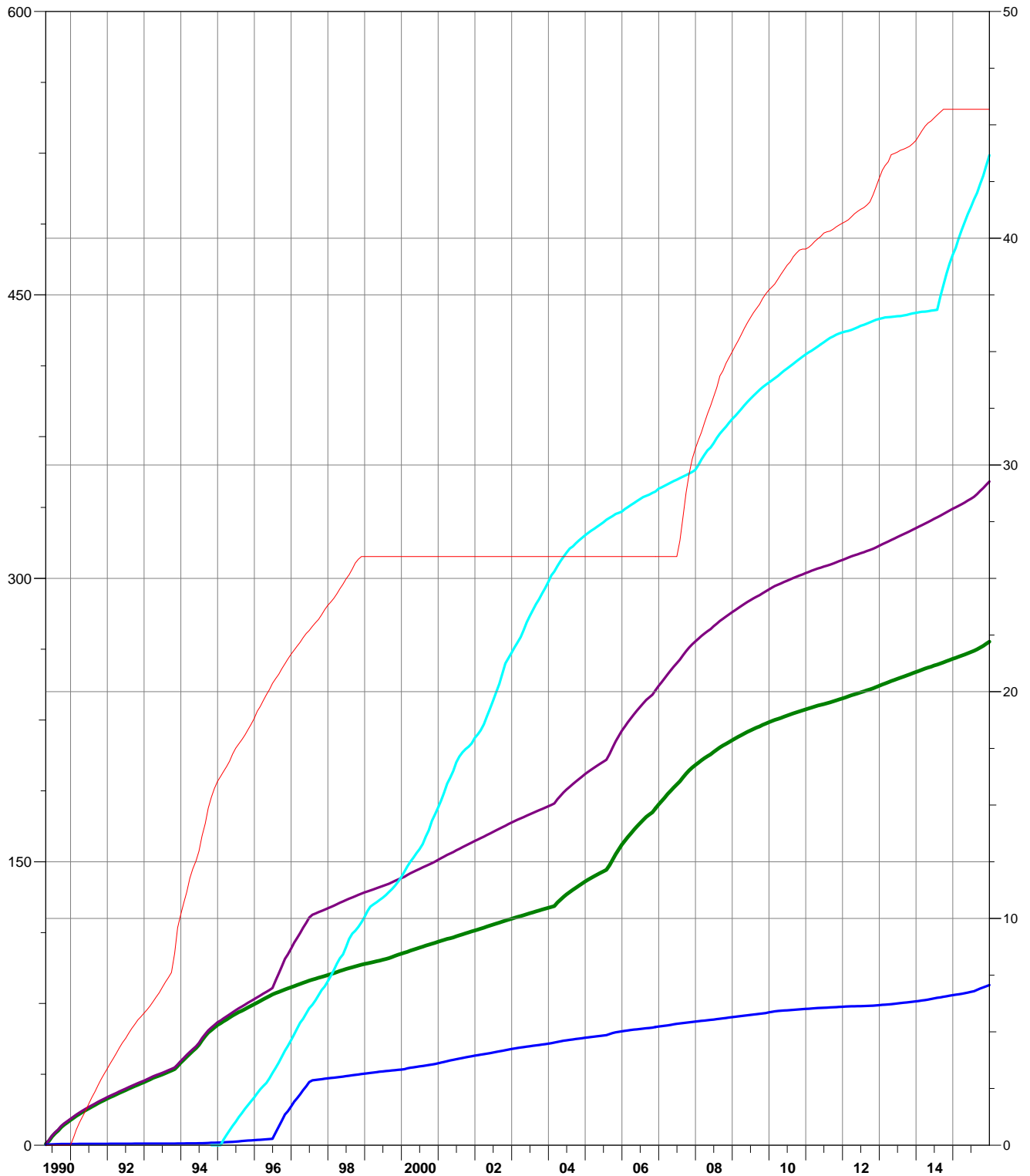
Cumulative Oil Prod : 243.09 Mbbl

Cumulative Liquid Prod : 317.18 Mbbl

Cumulative Water Prod : 74.09 Mbbl

Cumulative Water Inj : 437.30 Mbbl

Cumulative Gas Prod : 42.63 MMcf



# Pattern: 04-17 Set: PIERSON UNIT Total

Axis 1 04-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

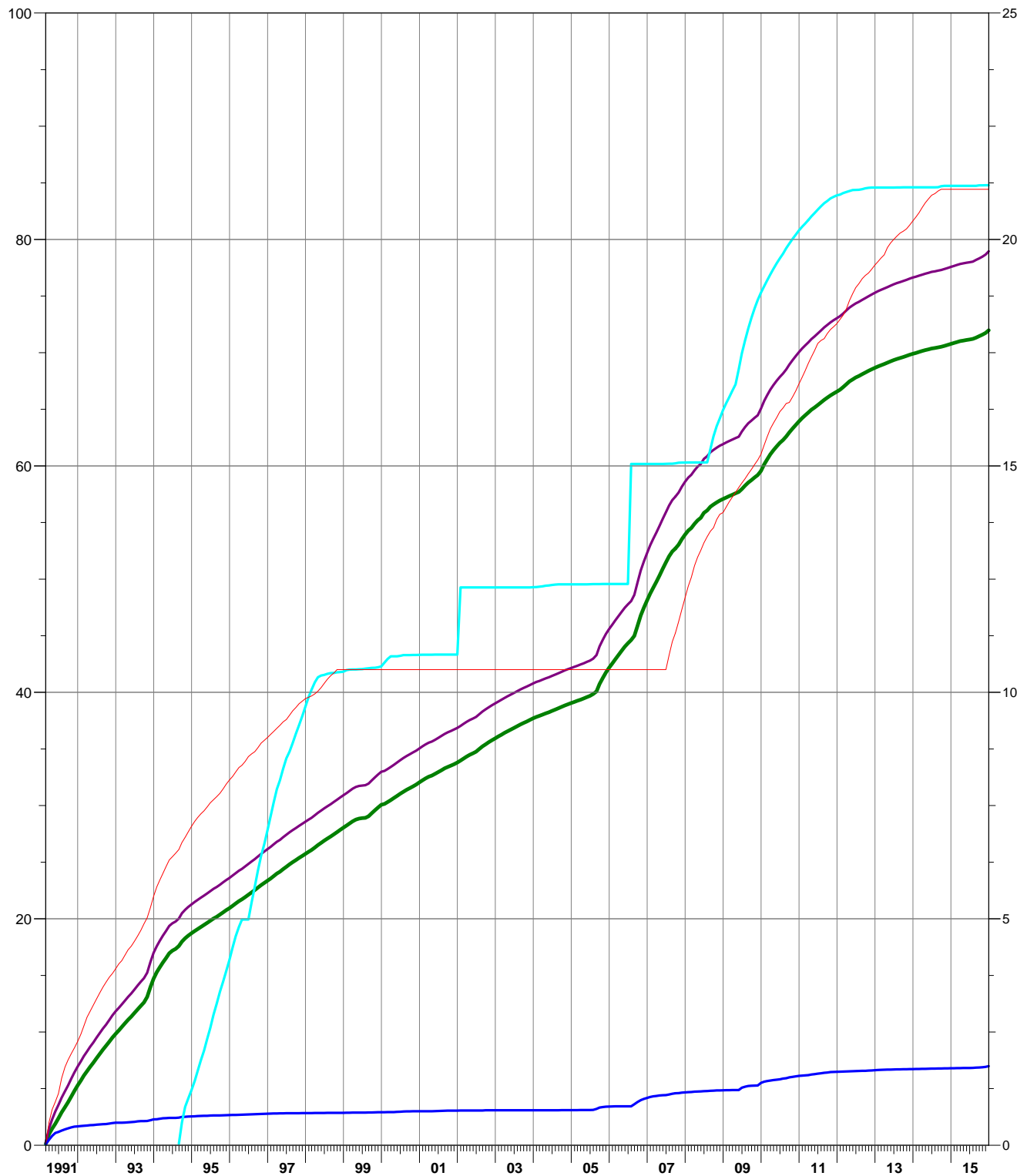
Cumulative Oil Prod : 68.66 Mbbl

Cumulative Liquid Prod : 75.29 Mbbl

Cumulative Water Prod : 6.62 Mbbl

Cumulative Water Inj : 84.58 Mbbl

Cumulative Gas Prod : 19.43 MMcf



# Pattern: 06-08 Set: PIERSON UNIT Total

Axis 1 06-08

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

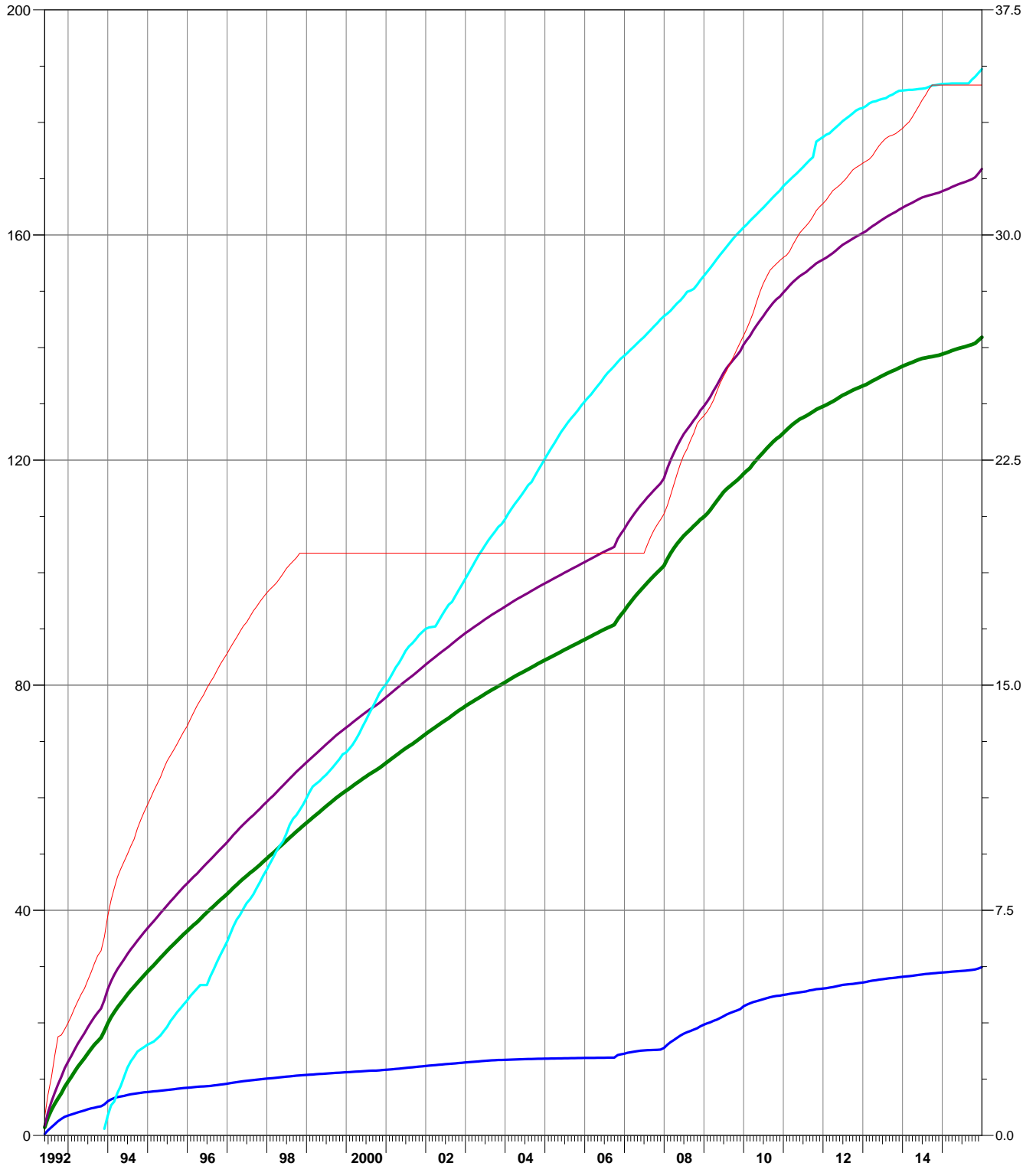
Cumulative Oil Prod : 133.17 Mbbl

Cumulative Liquid Prod : 160.34 Mbbl

Cumulative Water Prod : 27.17 Mbbl

Cumulative Water Inj : 182.57 Mbbl

Cumulative Gas Prod : 32.39 MMcf





# Pattern: 06-09 Set: PIERSON UNIT Total

Axis 1 06-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

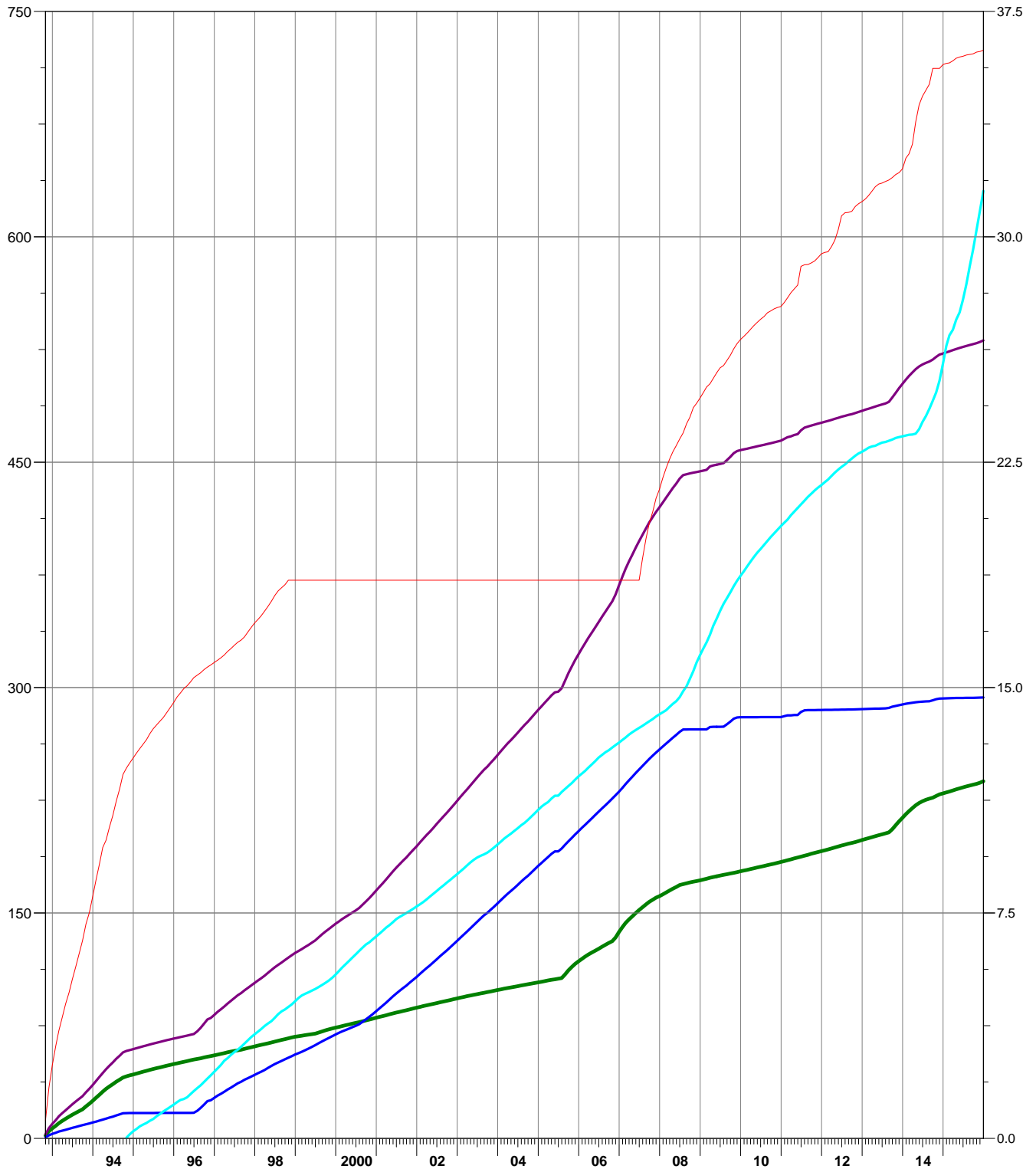
Cumulative Oil Prod : 198.56 Mbbl

Cumulative Liquid Prod : 484.20 Mbbl

Cumulative Water Prod : 285.64 Mbbl

Cumulative Water Inj : 456.93 Mbbl

Cumulative Gas Prod : 31.17 MMcf



# Pattern: 06-16 Set: PIERSON UNIT Total

Axis 1 06-16

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

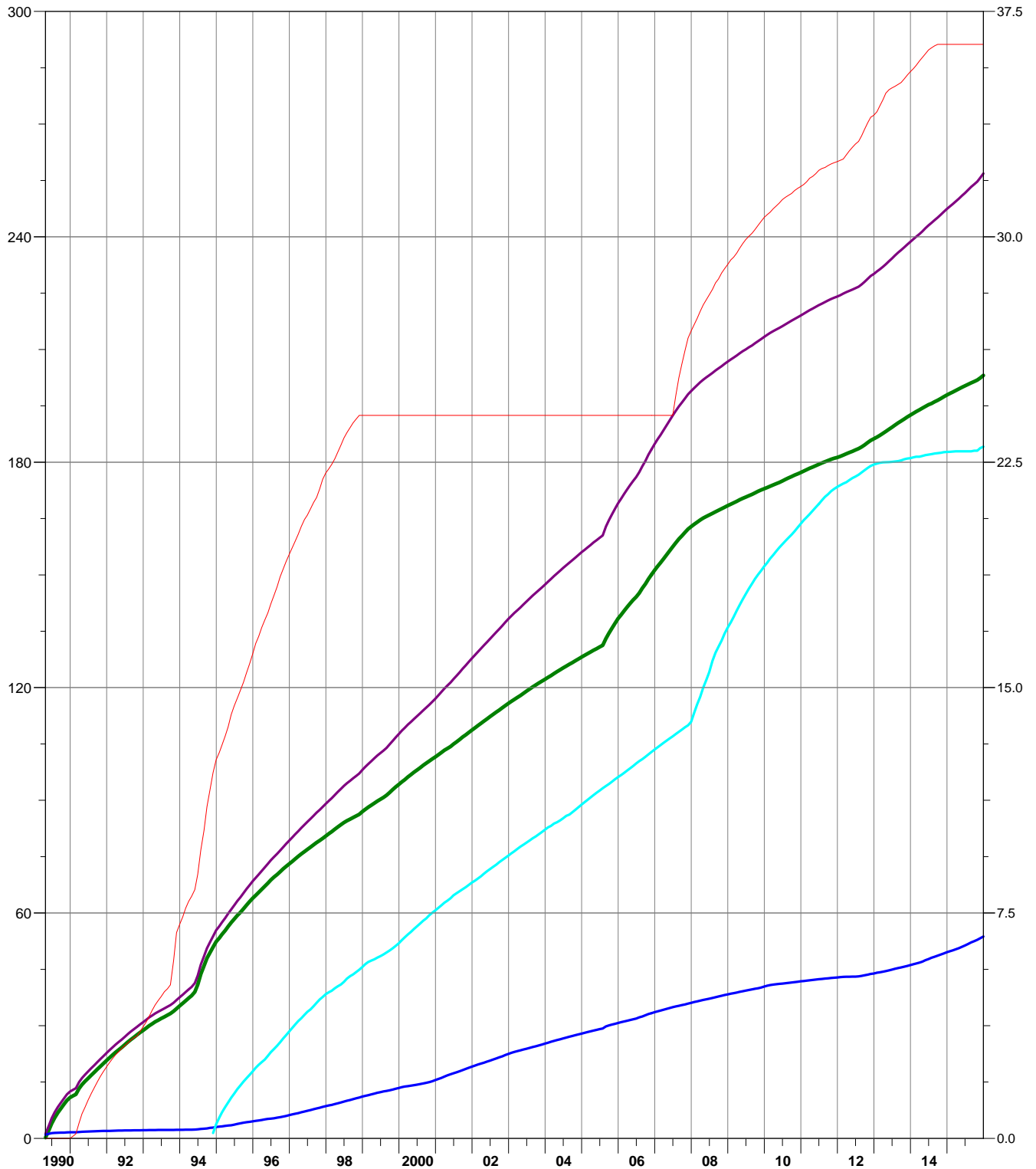
Cumulative Oil Prod : 186.23 Mbbl

Cumulative Liquid Prod : 230.12 Mbbl

Cumulative Water Prod : 43.89 Mbbl

Cumulative Water Inj : 179.36 Mbbl

Cumulative Gas Prod : 34.04 MMcf



# Pattern: 06-17 Set: PIERSON UNIT Total

Axis 1 06-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

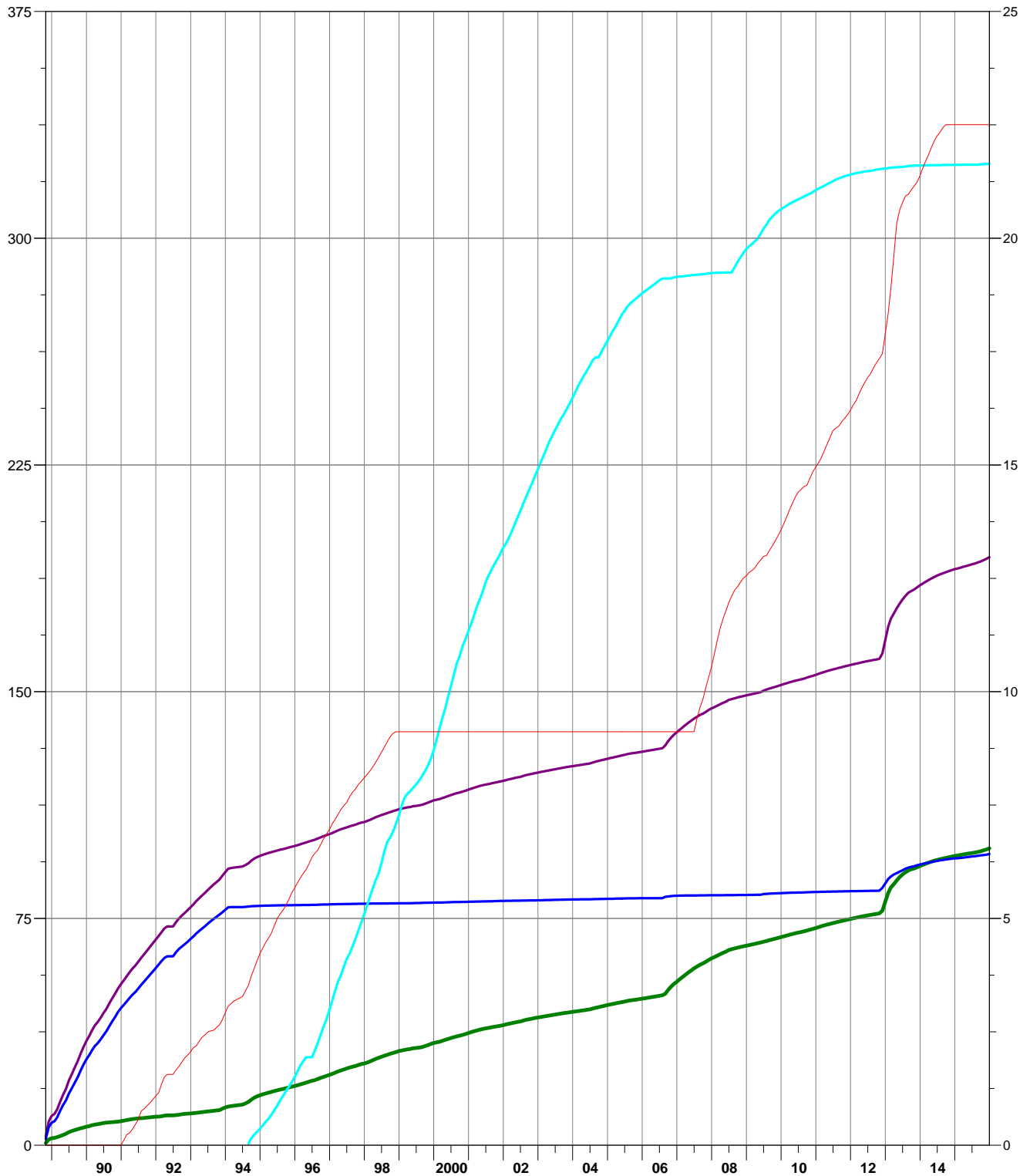
Cumulative Oil Prod : 80.41 Mbbl

Cumulative Liquid Prod : 166.91 Mbbl

Cumulative Water Prod : 86.49 Mbbl

Cumulative Water Inj : 323.03 Mbbl

Cumulative Gas Prod : 17.88 MMcf



# Pattern: 08-08 Set: PIERSON UNIT Total

Axis 1 08-08

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

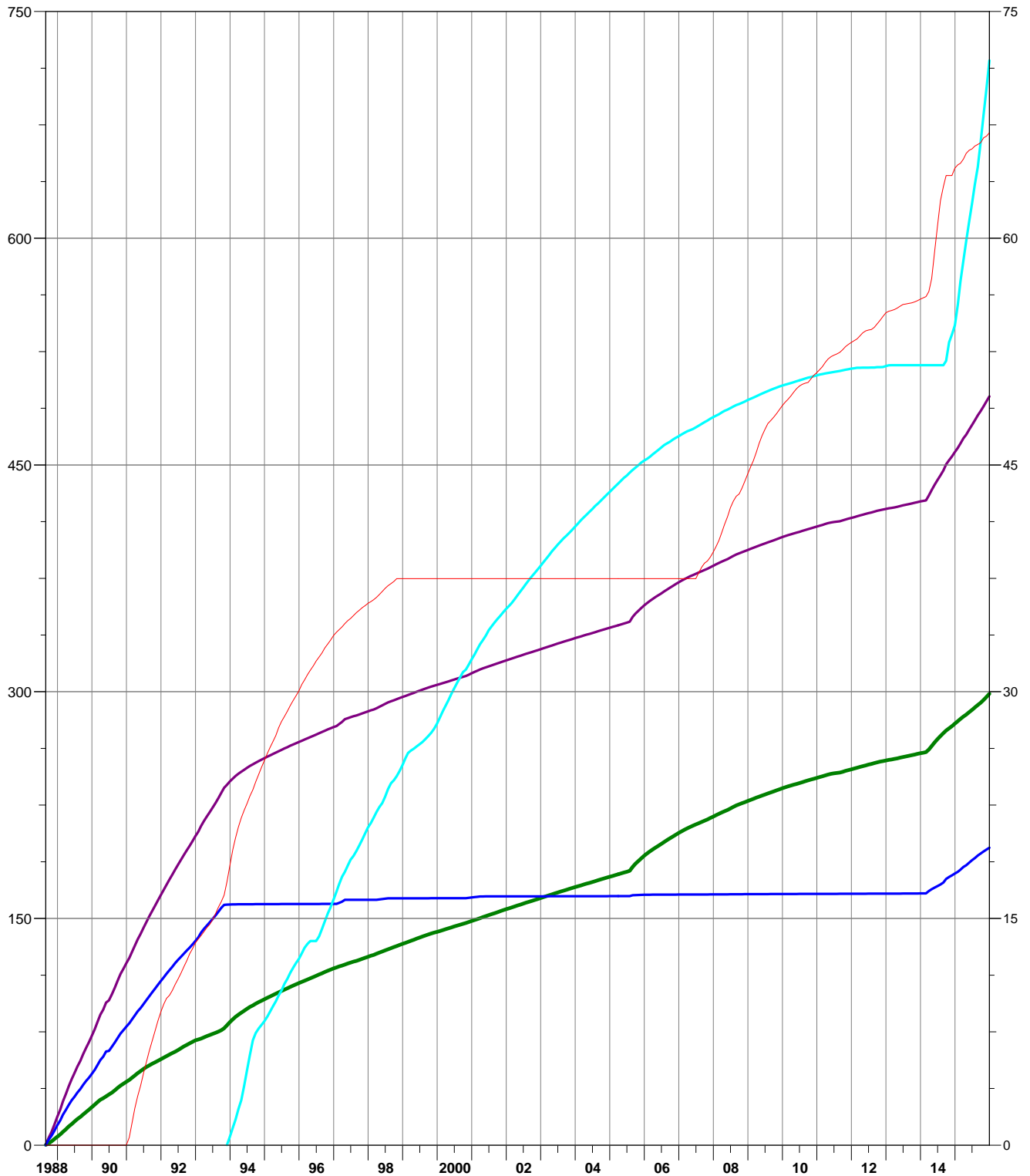
Cumulative Oil Prod : 254.48 Mbbl

Cumulative Liquid Prod : 420.89 Mbbl

Cumulative Water Prod : 166.41 Mbbl

Cumulative Water Inj : 515.41 Mbbl

Cumulative Gas Prod : 55.07 MMcf



# Pattern: 08-09 Set: PIERSON UNIT Total

Axis 1 08-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

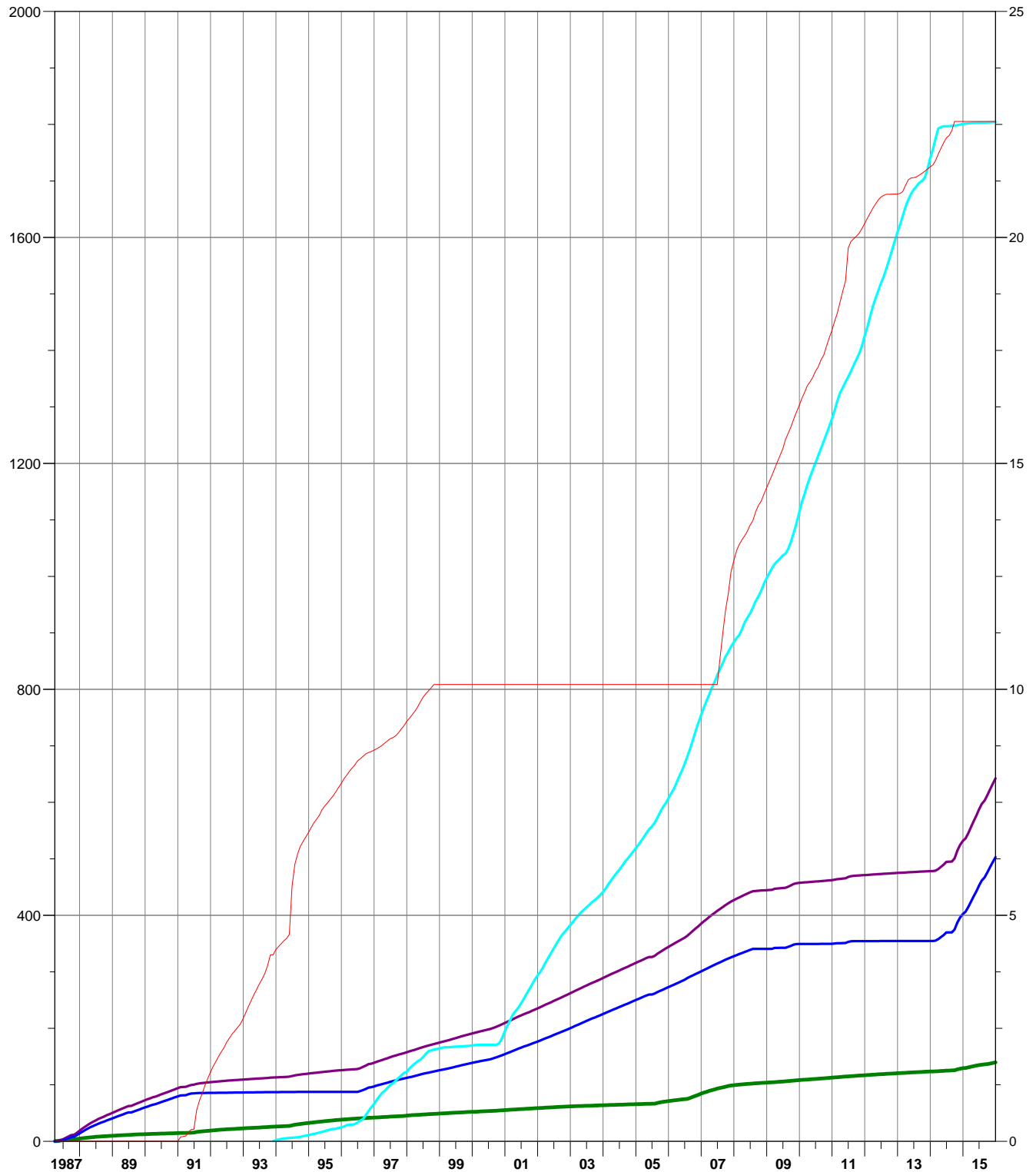
Cumulative Oil Prod : 120.48 Mbbl

Cumulative Liquid Prod : 475.02 Mbbl

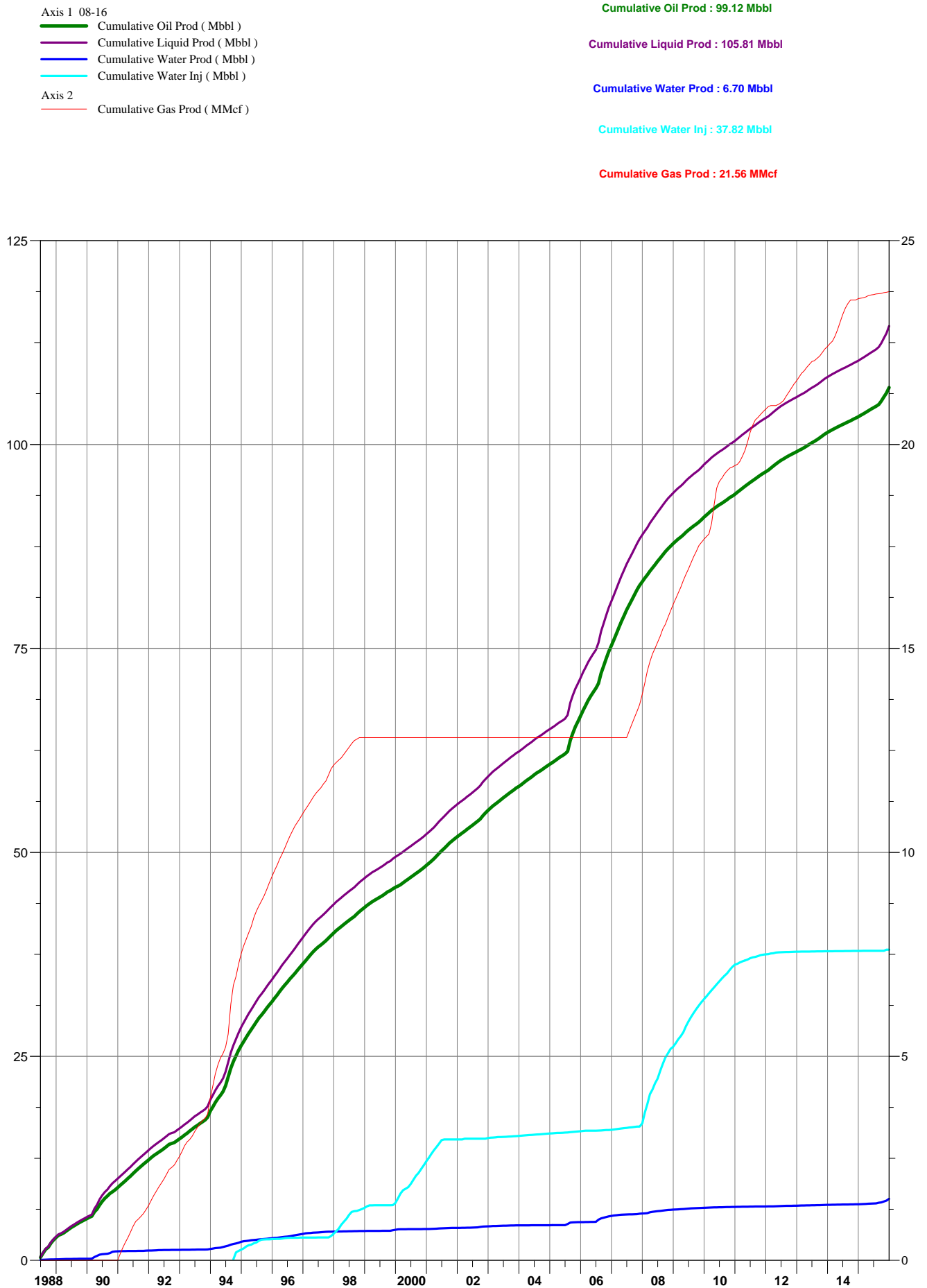
Cumulative Water Prod : 354.54 Mbbl

Cumulative Water Inj : 1608.65 Mbbl

Cumulative Gas Prod : 20.96 MMcf



# Pattern: 08-16 Set: PIERSON UNIT Total



# Pattern: 08-17 Set: PIERSON UNIT Total

Axis 1 08-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

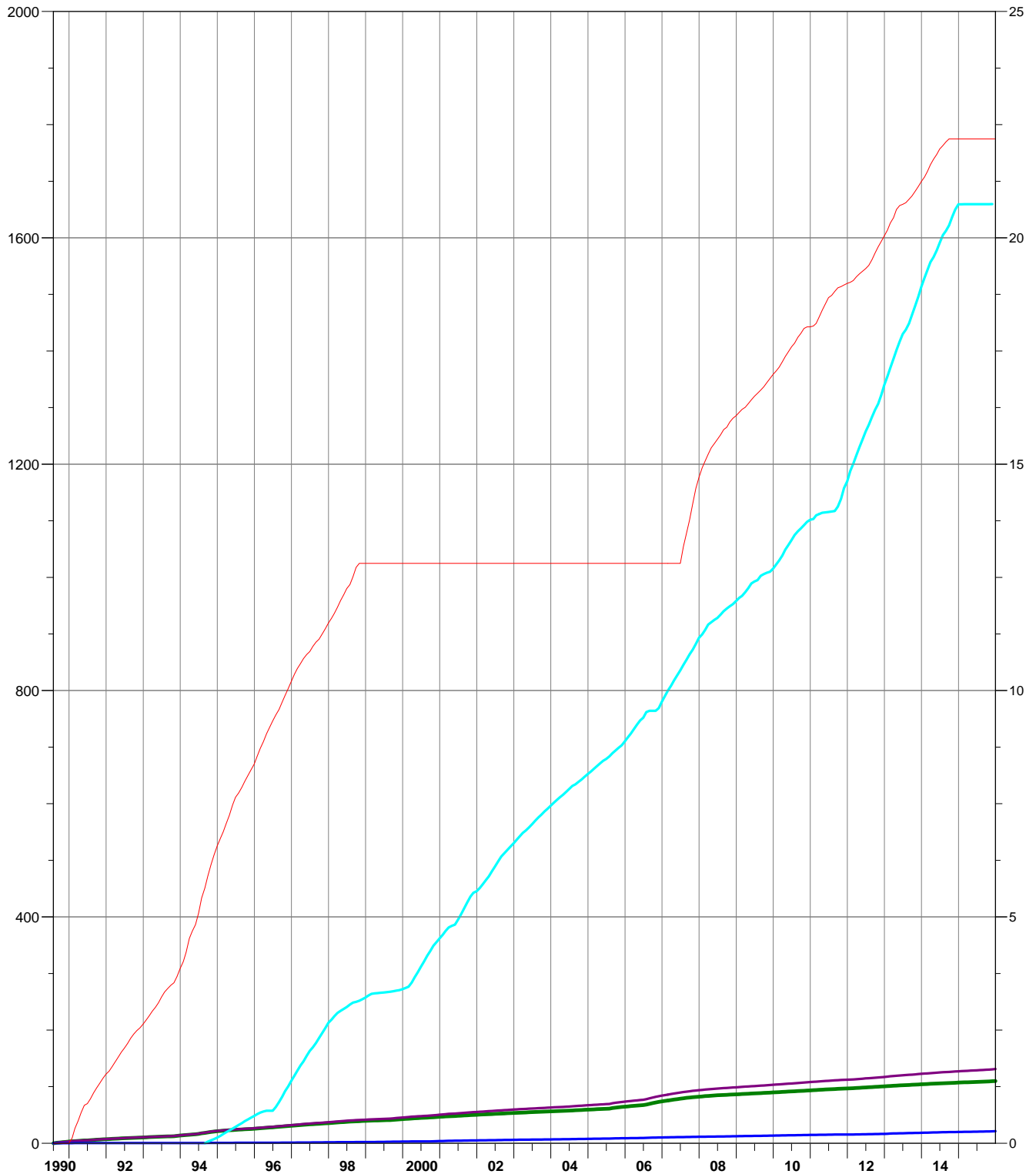
Cumulative Oil Prod : 100.55 Mbbl

Cumulative Liquid Prod : 117.06 Mbbl

Cumulative Water Prod : 16.51 Mbbl

Cumulative Water Inj : 1339.79 Mbbl

Cumulative Gas Prod : 20.04 MMcf



# Pattern: 08-18 Set: PIERSON UNIT Total

Axis 1 08-18

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

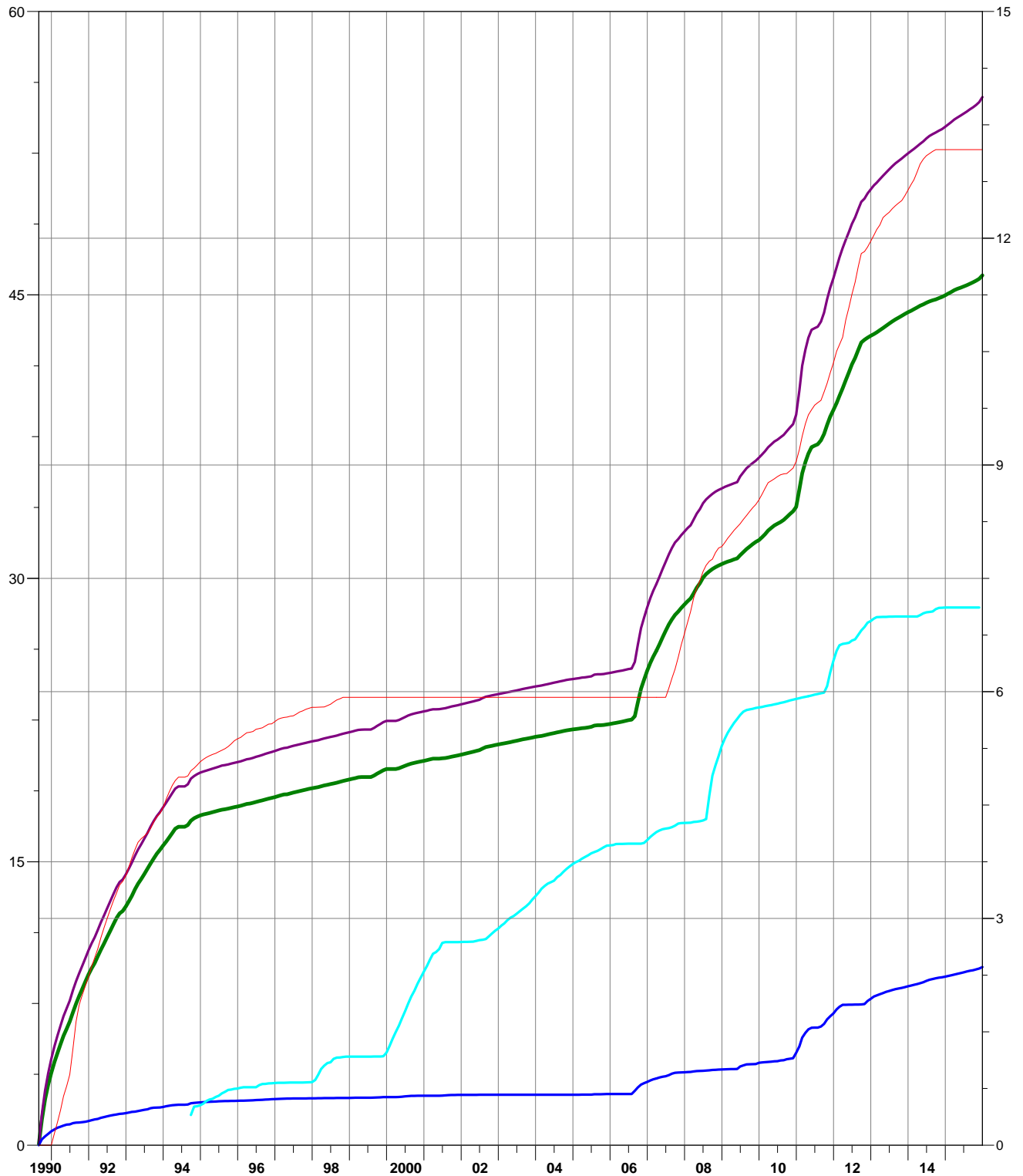
Cumulative Oil Prod : 42.84 Mbbl

Cumulative Liquid Prod : 50.58 Mbbl

Cumulative Water Prod : 7.74 Mbbl

Cumulative Water Inj : 27.74 Mbbl

Cumulative Gas Prod : 11.96 MMcf





# Pattern: 10-08 Set: PIERSON UNIT Total

Axis 1 10-08

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

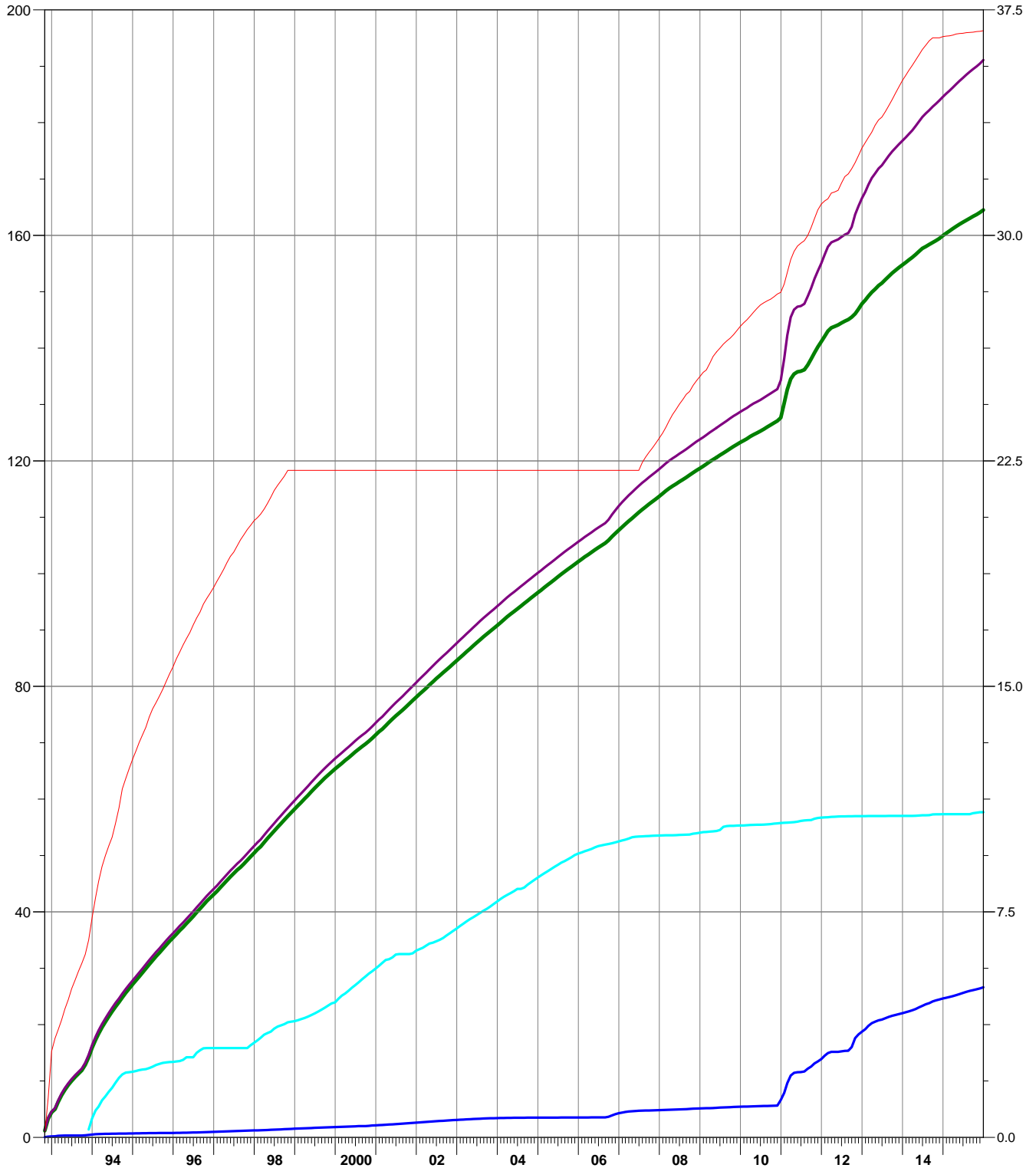
Cumulative Oil Prod : 147.85 Mbbl

Cumulative Liquid Prod : 166.58 Mbbl

Cumulative Water Prod : 18.73 Mbbl

Cumulative Water Inj : 56.98 Mbbl

Cumulative Gas Prod : 32.90 MMcf



# Pattern: 10-09 Set: PIERSON UNIT Total

Axis 1 10-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

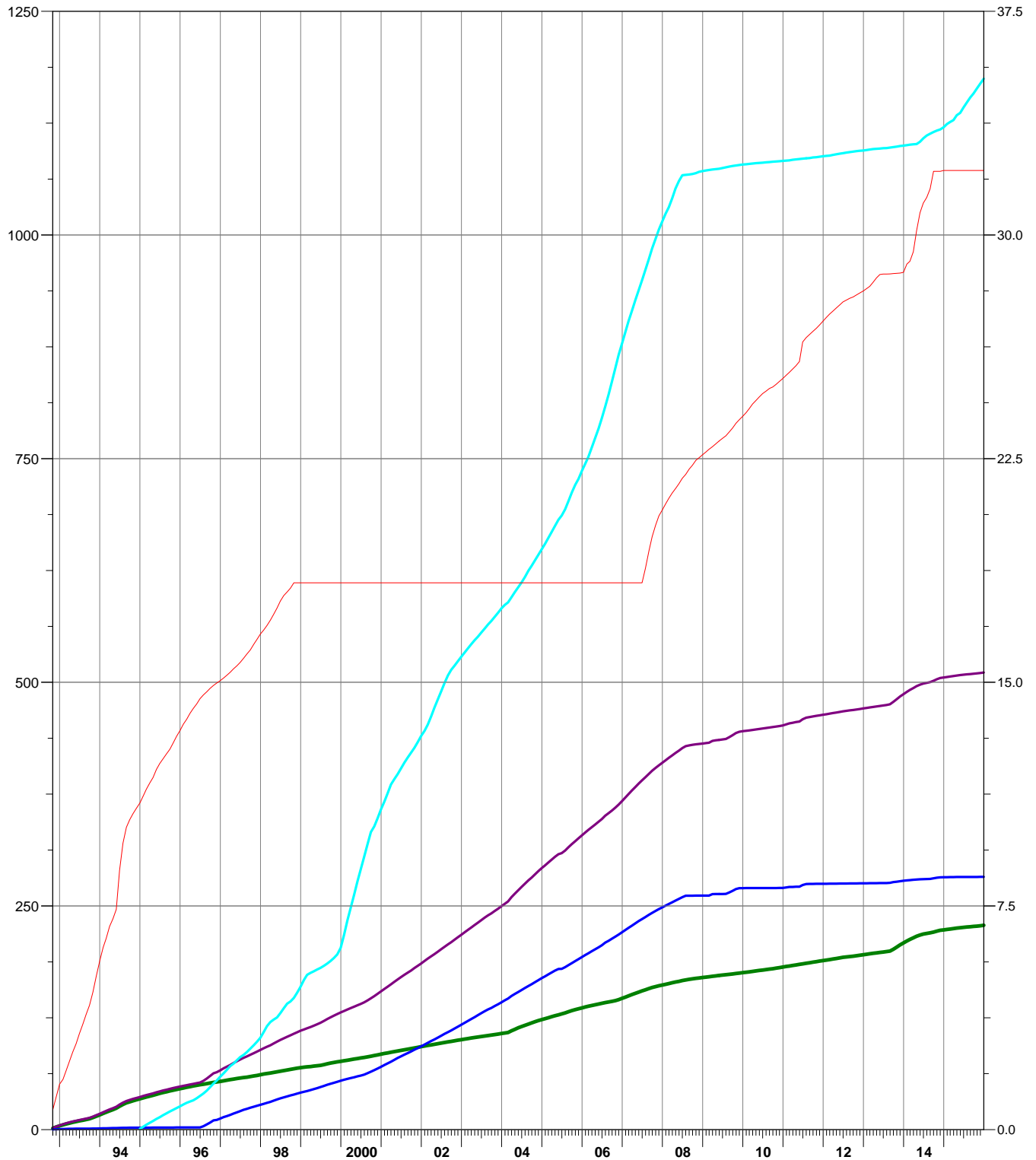
Cumulative Oil Prod : 195.45 Mbbl

Cumulative Liquid Prod : 470.77 Mbbl

Cumulative Water Prod : 275.32 Mbbl

Cumulative Water Inj : 1094.46 Mbbl

Cumulative Gas Prod : 28.12 MMcf



# Pattern: 10-16 Set: PIERSON UNIT Total

Axis 1 10-16

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

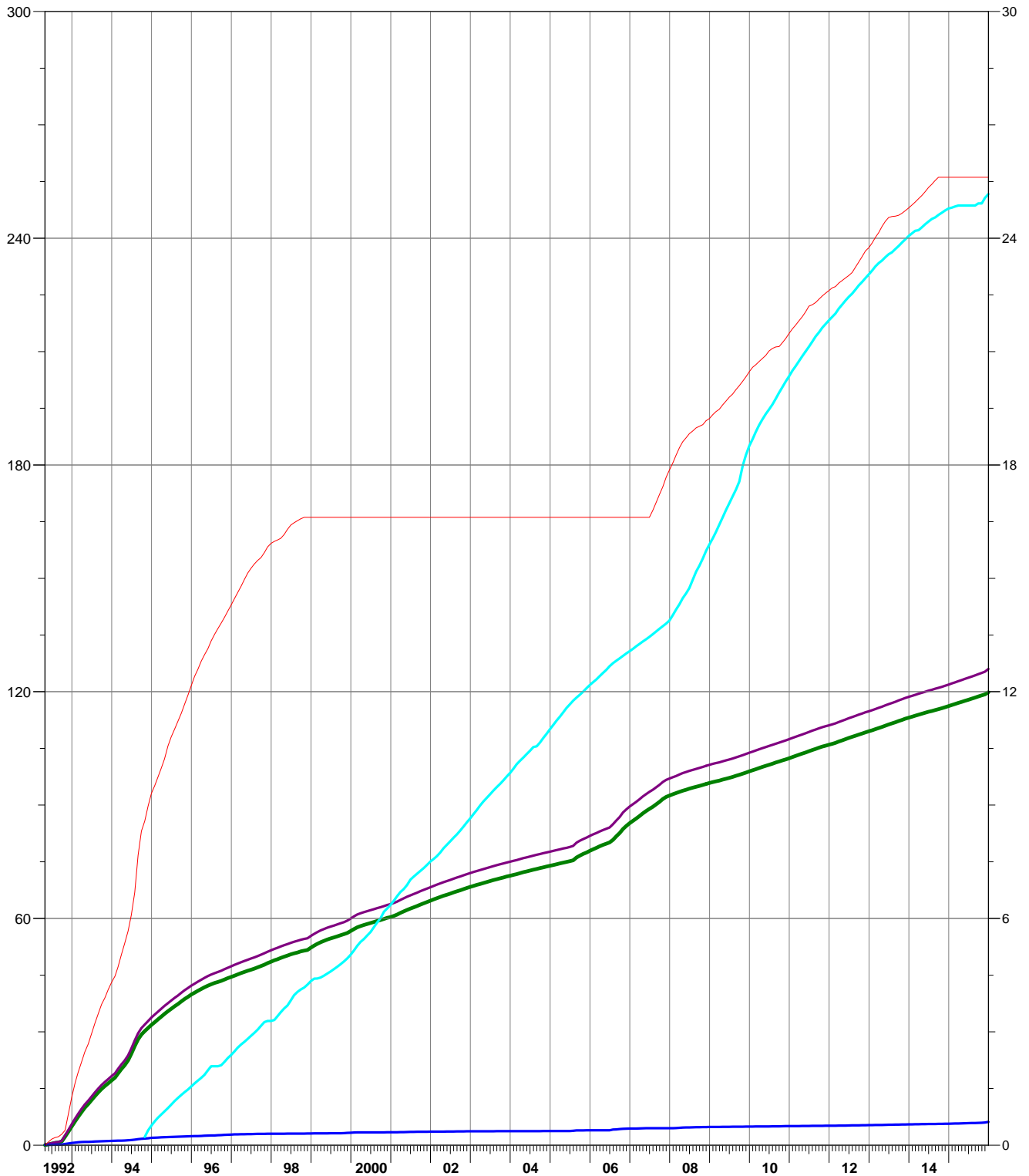
Cumulative Oil Prod : 109.52 Mbbl

Cumulative Liquid Prod : 114.82 Mbbl

Cumulative Water Prod : 5.30 Mbbl

Cumulative Water Inj : 230.46 Mbbl

Cumulative Gas Prod : 23.75 MMcf



# Pattern: 10-17 Set: PIERSON UNIT Total

Axis 1 10-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

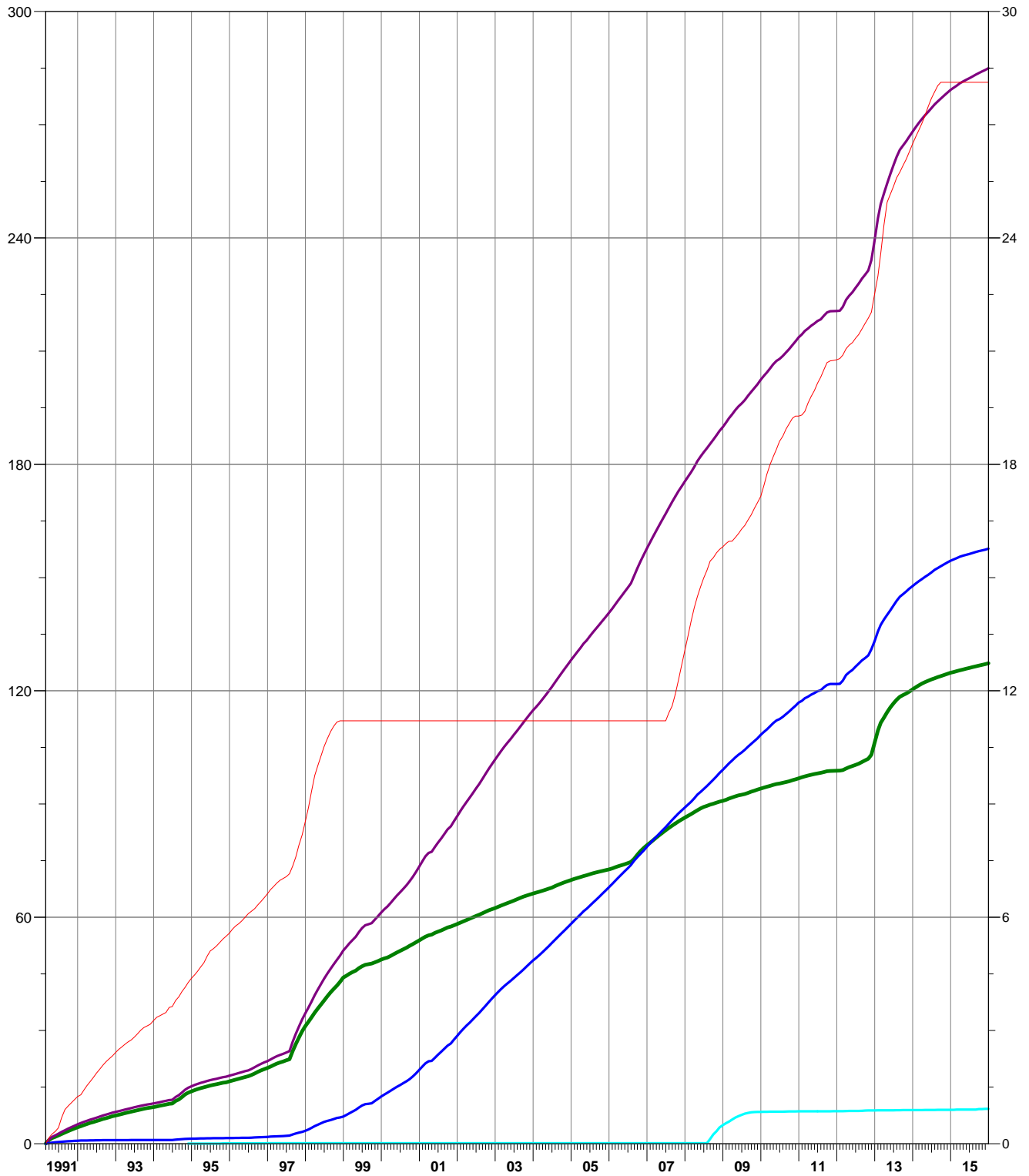
Cumulative Oil Prod : 106.21 Mbbl

Cumulative Liquid Prod : 239.35 Mbbl

Cumulative Water Prod : 133.15 Mbbl

Cumulative Water Inj : 8.82 Mbbl

Cumulative Gas Prod : 22.51 MMcf



# Pattern: 12-04 Set: PIERSON UNIT Total

Axis 1 12-04

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

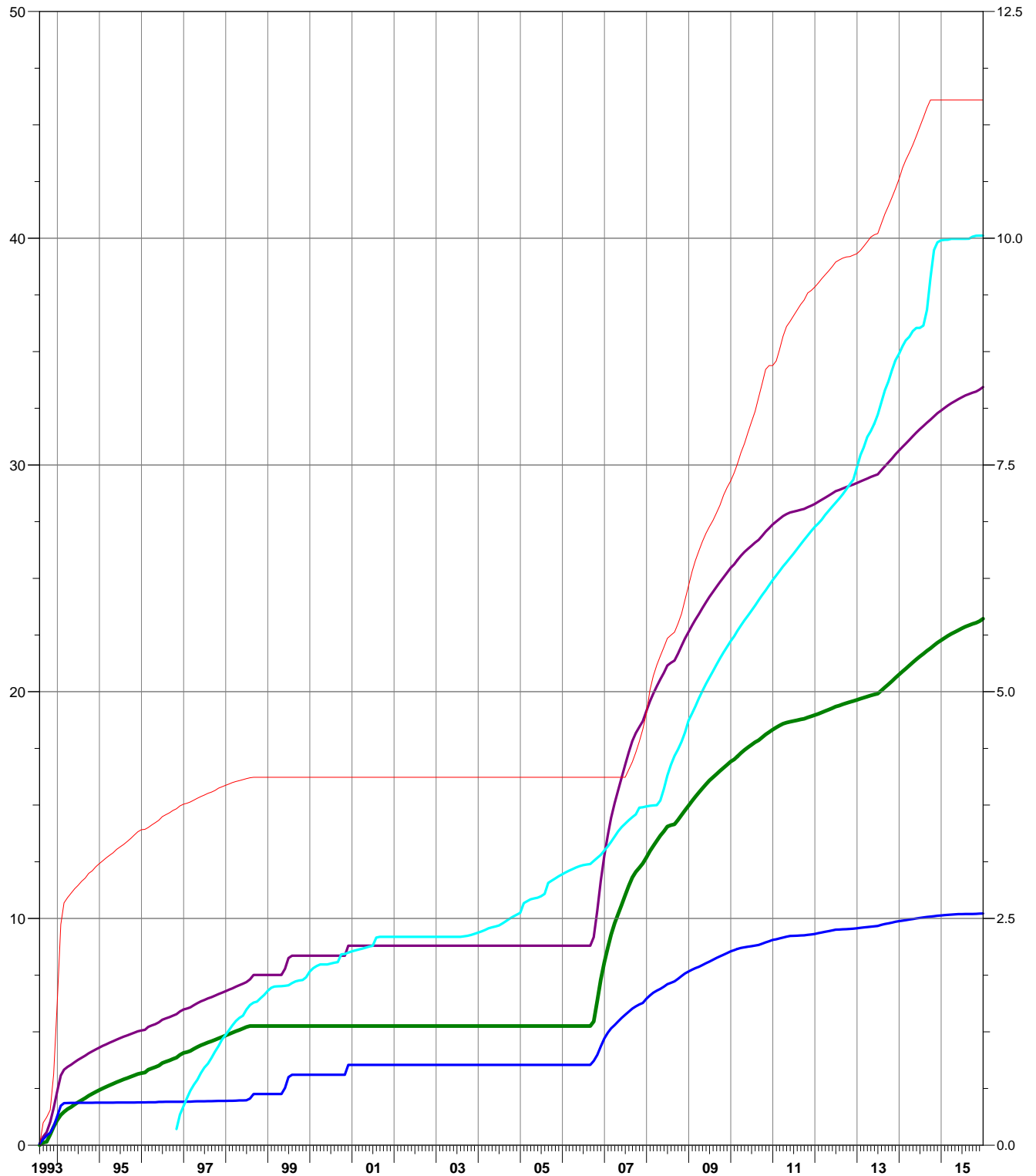
Cumulative Oil Prod : 19.64 Mbbl

Cumulative Liquid Prod : 29.20 Mbbl

Cumulative Water Prod : 9.56 Mbbl

Cumulative Water Inj : 29.90 Mbbl

Cumulative Gas Prod : 9.83 MMcf



# Pattern: 12-08 Set: PIERSON UNIT Total

Axis 1 12-08

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

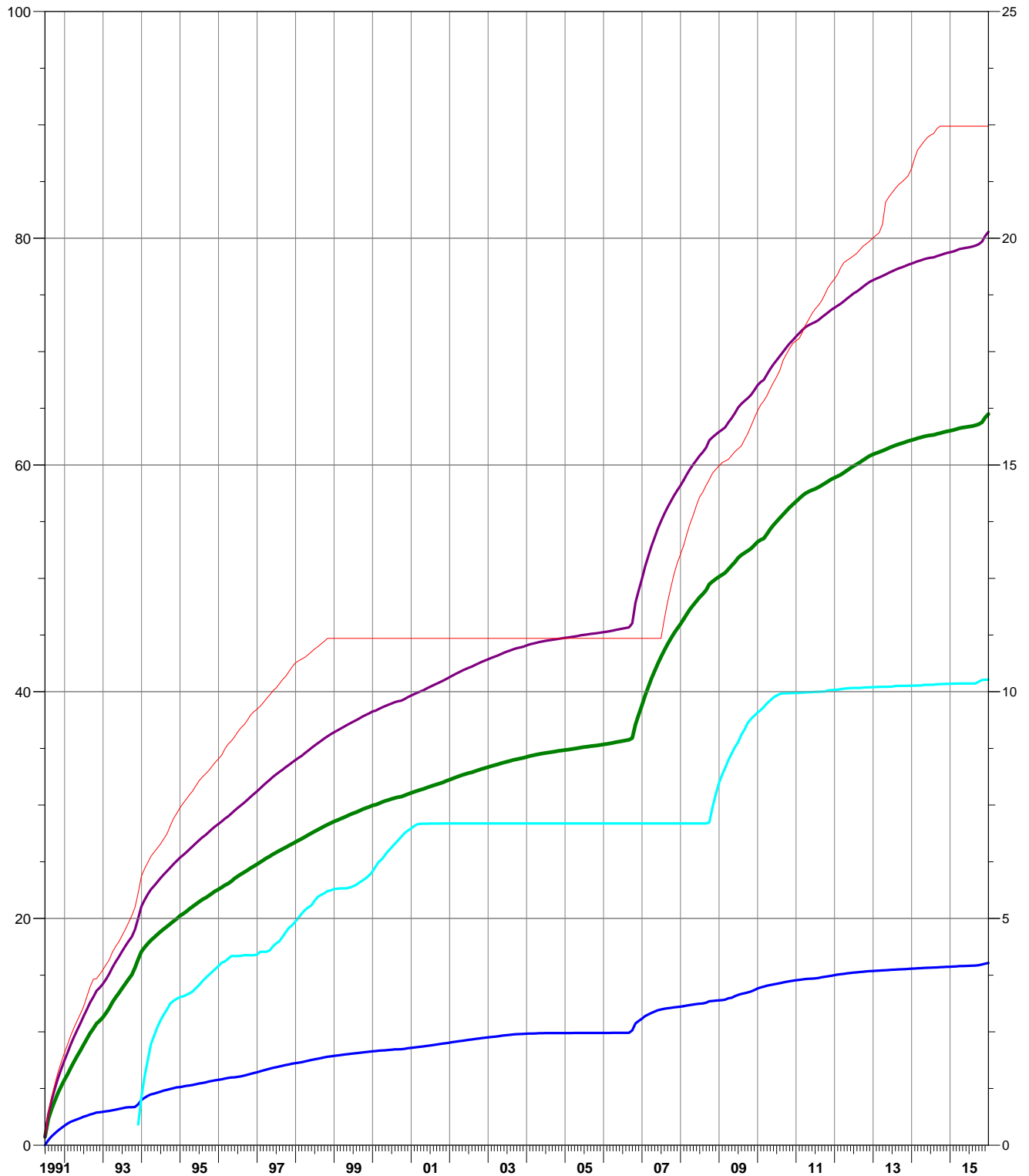
Cumulative Oil Prod : 60.93 Mbbl

Cumulative Liquid Prod : 76.30 Mbbl

Cumulative Water Prod : 15.37 Mbbl

Cumulative Water Inj : 40.39 Mbbl

Cumulative Gas Prod : 20.01 MMcf



# Pattern: 12-09 Set: PIERSON UNIT Total

Axis 1 12-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

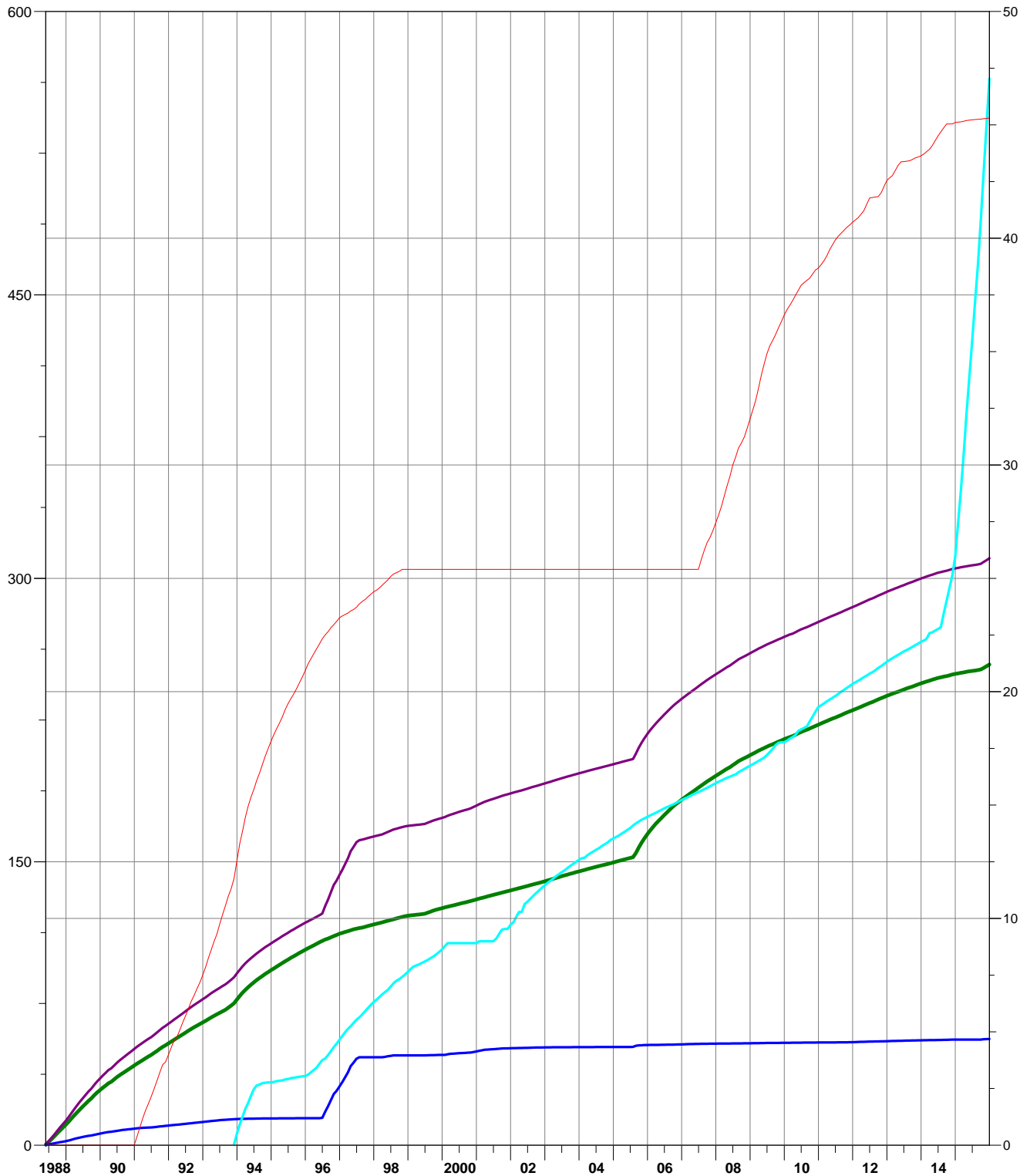
Cumulative Oil Prod : 237.82 Mbbl

Cumulative Liquid Prod : 292.85 Mbbl

Cumulative Water Prod : 55.03 Mbbl

Cumulative Water Inj : 255.85 Mbbl

Cumulative Gas Prod : 42.54 MMcf



# Pattern: 12-16 Set: PIERSON UNIT Total

Axis 1 12-16

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

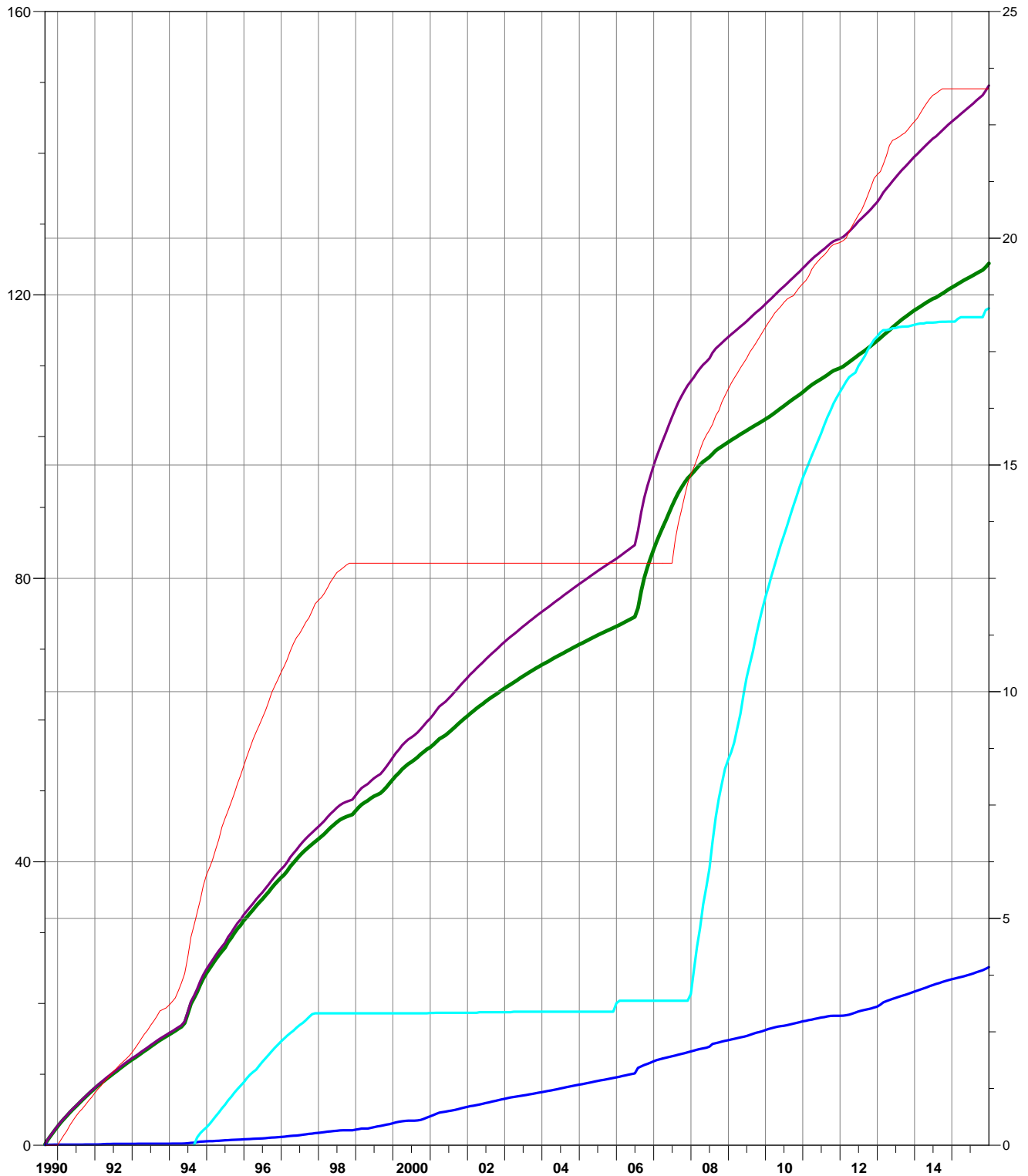
Cumulative Oil Prod : 113.54 Mbbl

Cumulative Liquid Prod : 133.08 Mbbl

Cumulative Water Prod : 19.55 Mbbl

Cumulative Water Inj : 114.11 Mbbl

Cumulative Gas Prod : 21.40 MMcf





# Pattern: 12-17 Set: PIERSON UNIT Total

Axis 1 12-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

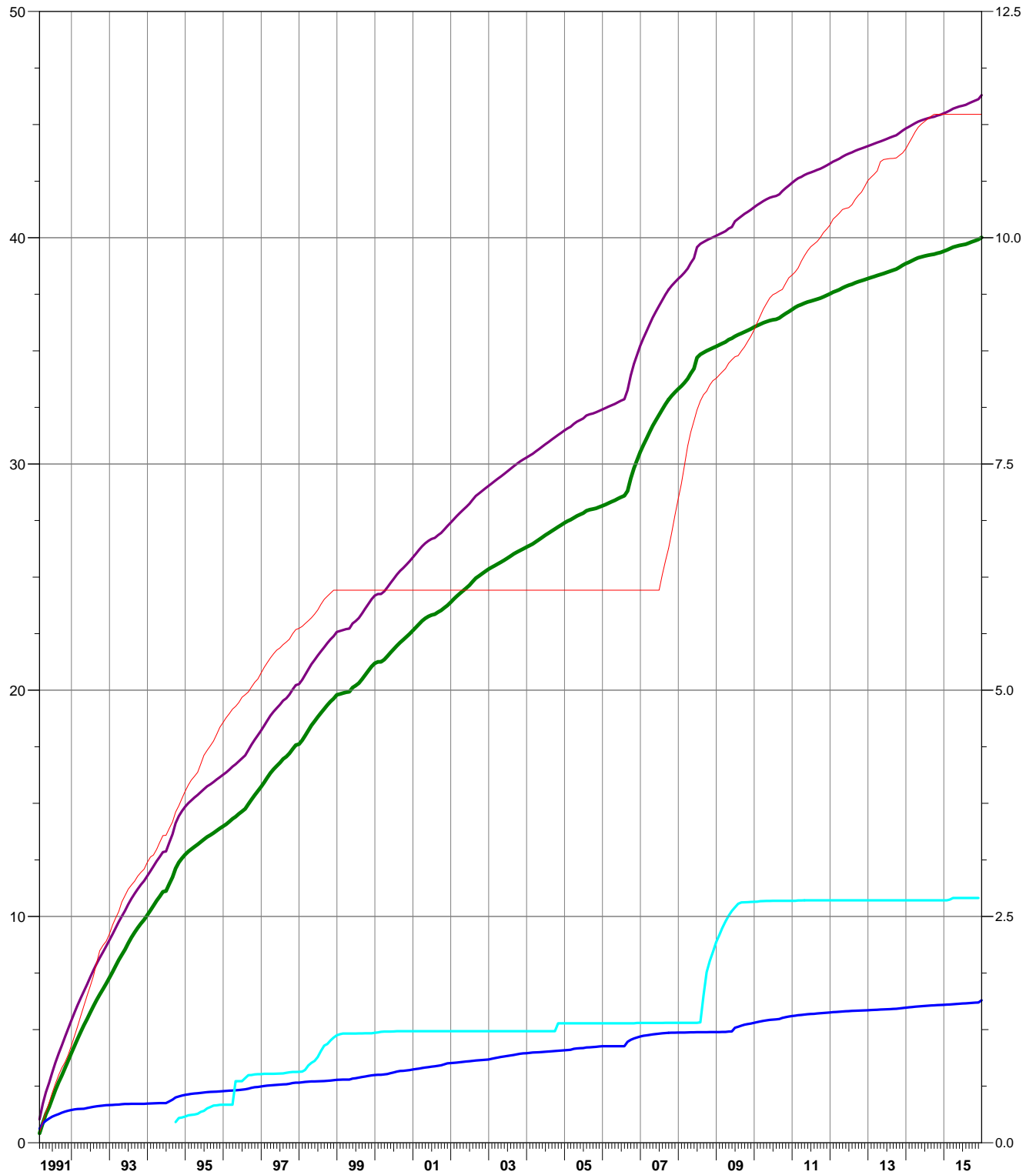
Cumulative Oil Prod : 38.19 Mbbl

Cumulative Liquid Prod : 44.05 Mbbl

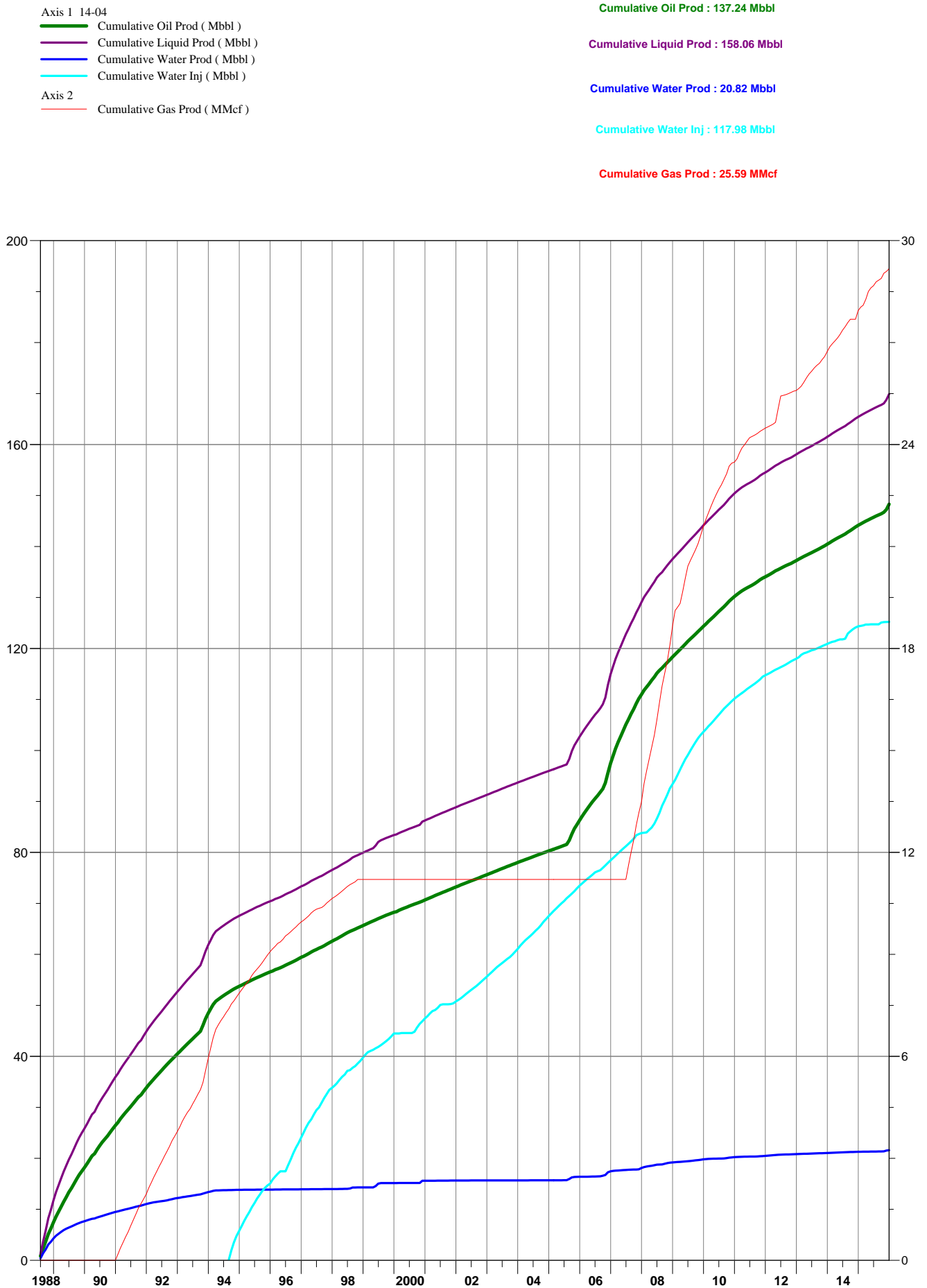
Cumulative Water Prod : 5.86 Mbbl

Cumulative Water Inj : 10.71 Mbbl

Cumulative Gas Prod : 10.63 MMcf



# Pattern: 14-04 Set: PIERSON UNIT Total



# Pattern: 14-08 Set: PIERSON UNIT Total

Axis 1 14-08

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

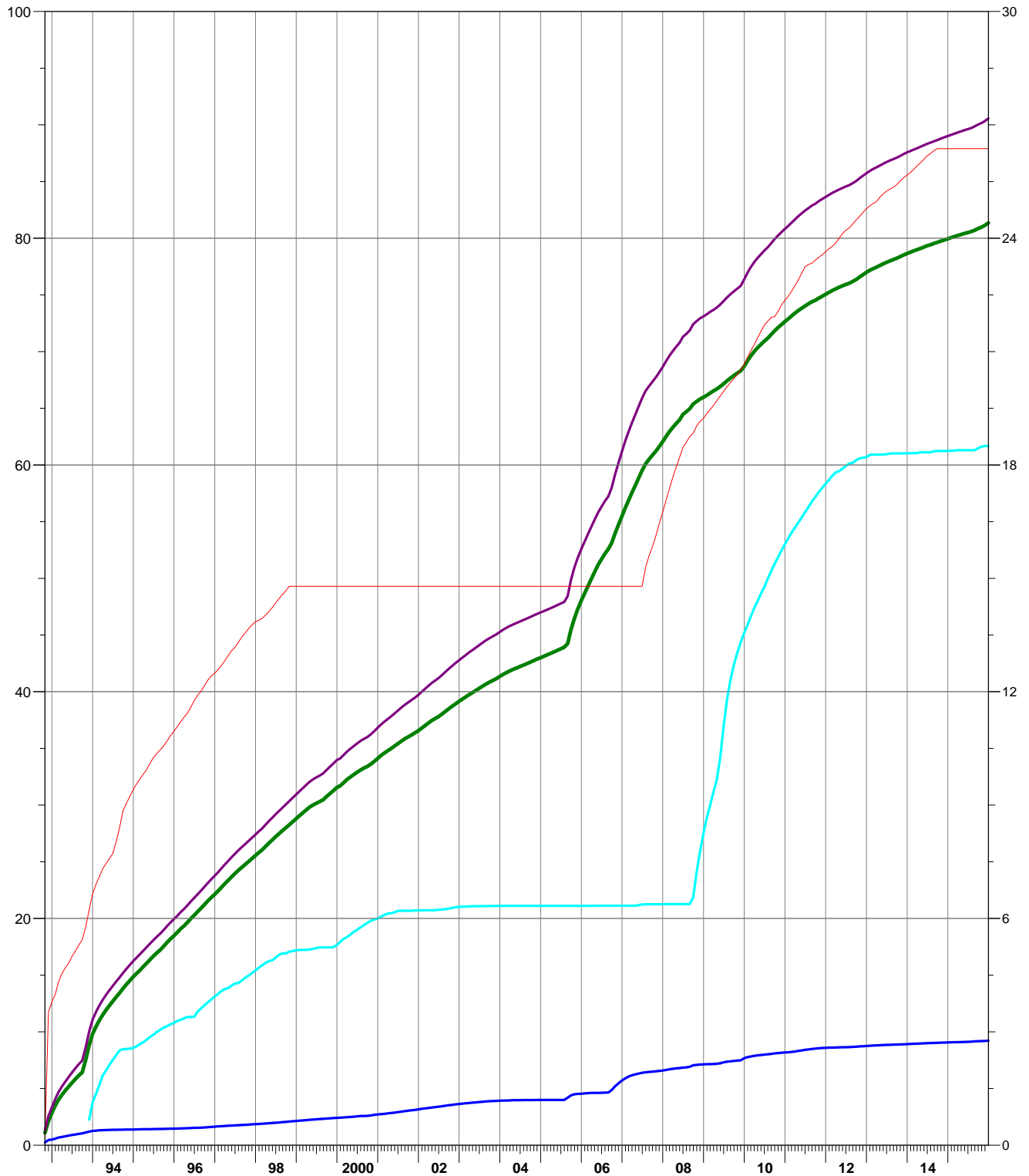
Cumulative Oil Prod : 76.98 Mbbl

Cumulative Liquid Prod : 85.73 Mbbl

Cumulative Water Prod : 8.75 Mbbl

Cumulative Water Inj : 60.67 Mbbl

Cumulative Gas Prod : 24.78 MMcf



# Pattern: 14-09 Set: PIERSON UNIT Total

Axis 1 14-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

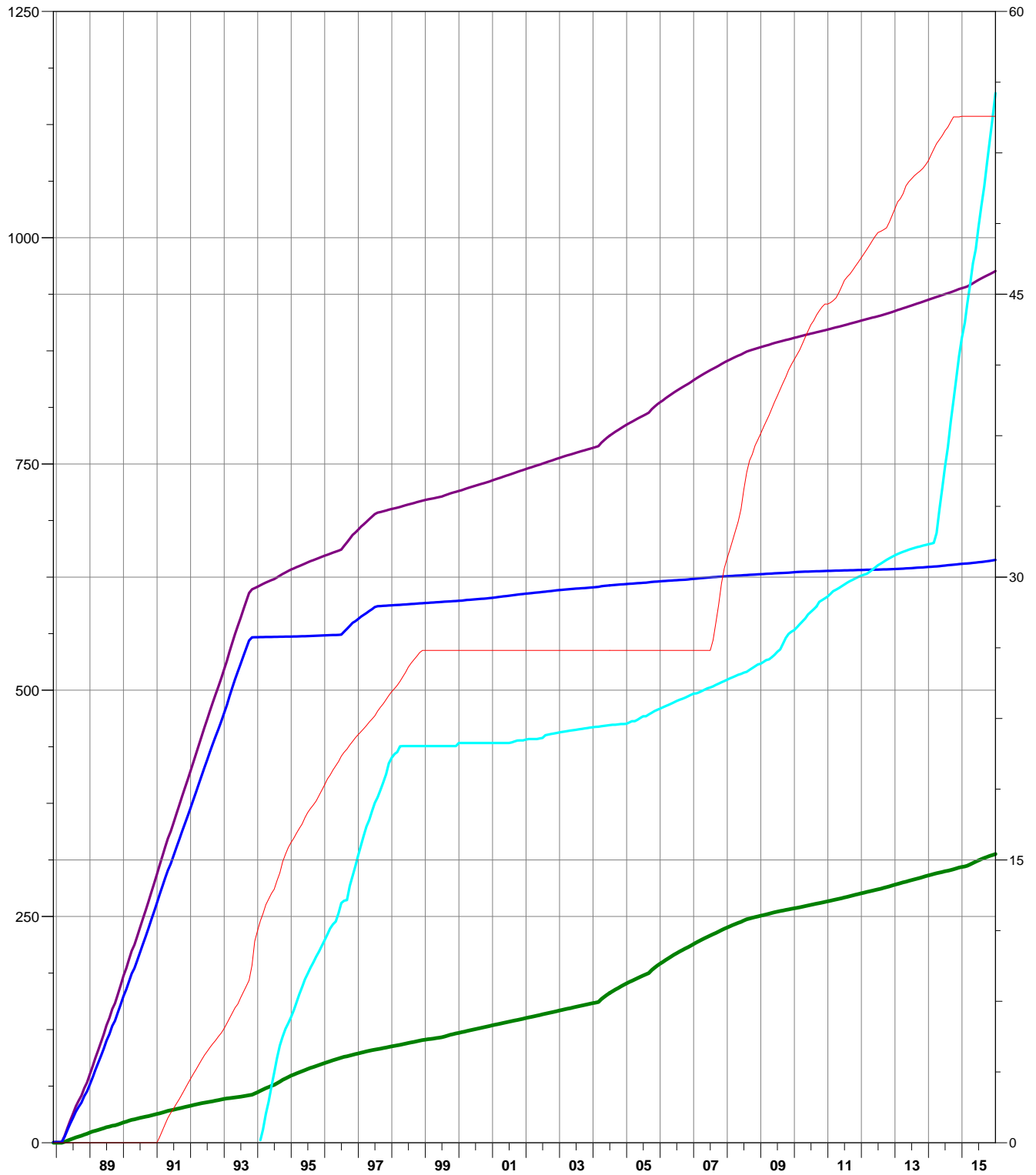
Cumulative Oil Prod : 285.06 Mbbl

Cumulative Liquid Prod : 918.95 Mbbl

Cumulative Water Prod : 633.89 Mbbl

Cumulative Water Inj : 648.95 Mbbl

Cumulative Gas Prod : 49.54 MMcf



# Pattern: 14-16 Set: PIERSON UNIT Total

Axis 1 14-16

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

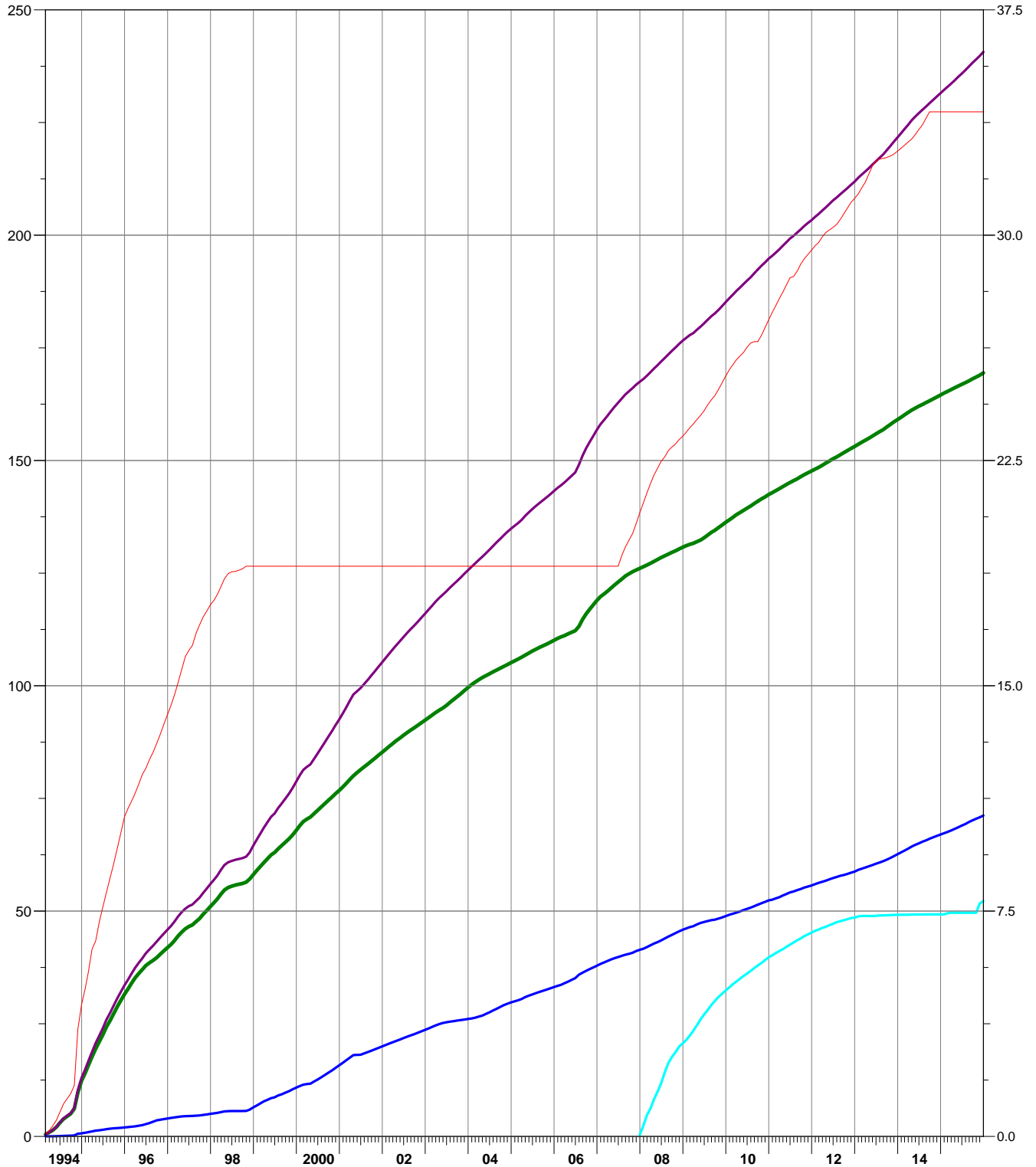
Cumulative Oil Prod : 153.12 Mbbl

Cumulative Liquid Prod : 211.89 Mbbl

Cumulative Water Prod : 58.77 Mbbl

Cumulative Water Inj : 48.54 Mbbl

Cumulative Gas Prod : 31.23 MMcf



# Pattern: 16-04 Set: PIERSON UNIT Total

Axis 1 16-04

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

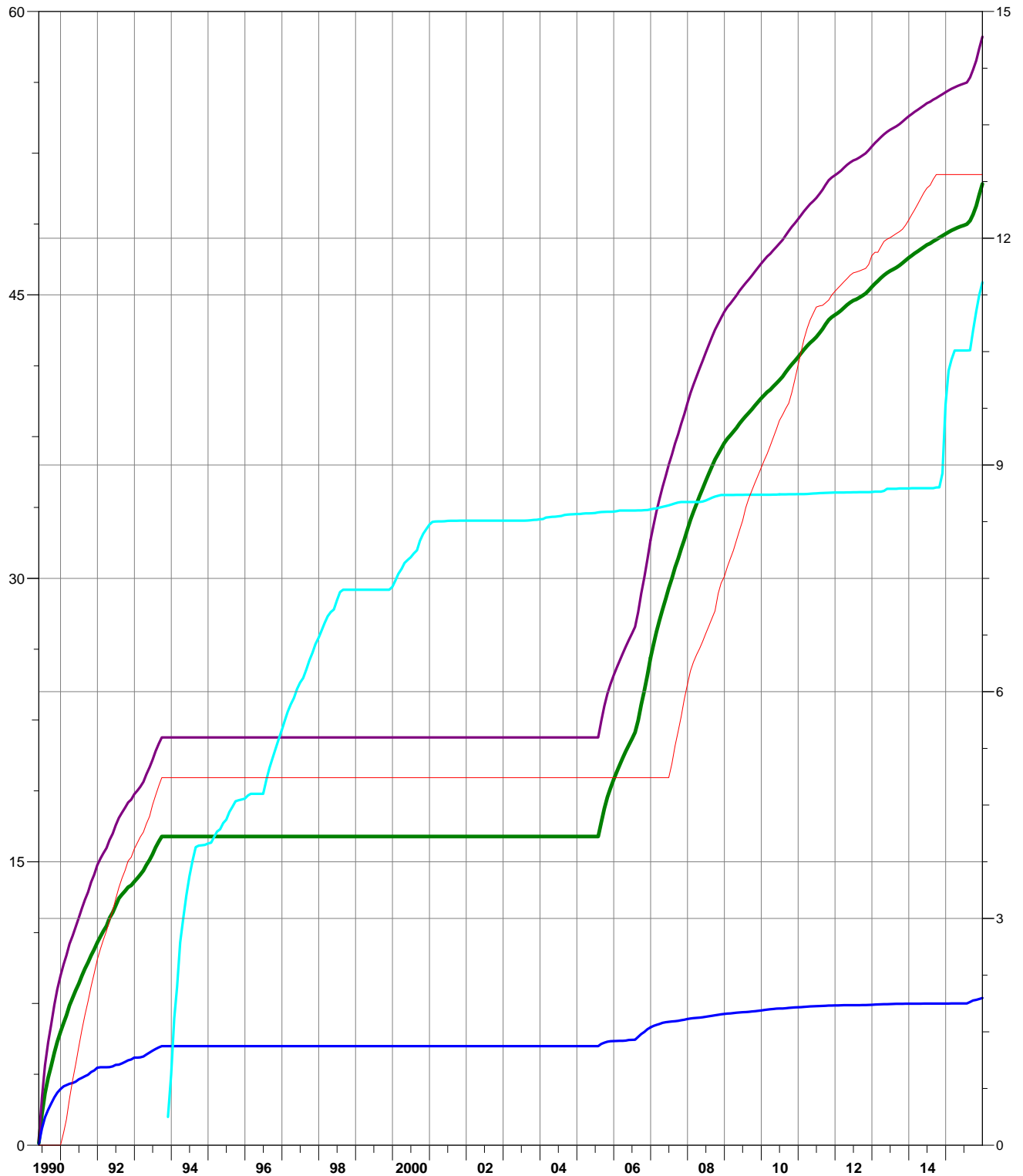
Cumulative Oil Prod : 45.42 Mbbl

Cumulative Liquid Prod : 52.85 Mbbl

Cumulative Water Prod : 7.43 Mbbl

Cumulative Water Inj : 34.57 Mbbl

Cumulative Gas Prod : 11.77 MMcf



# Pattern: 16-05 Set: PIERSON UNIT Total

Axis 1 16-05

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

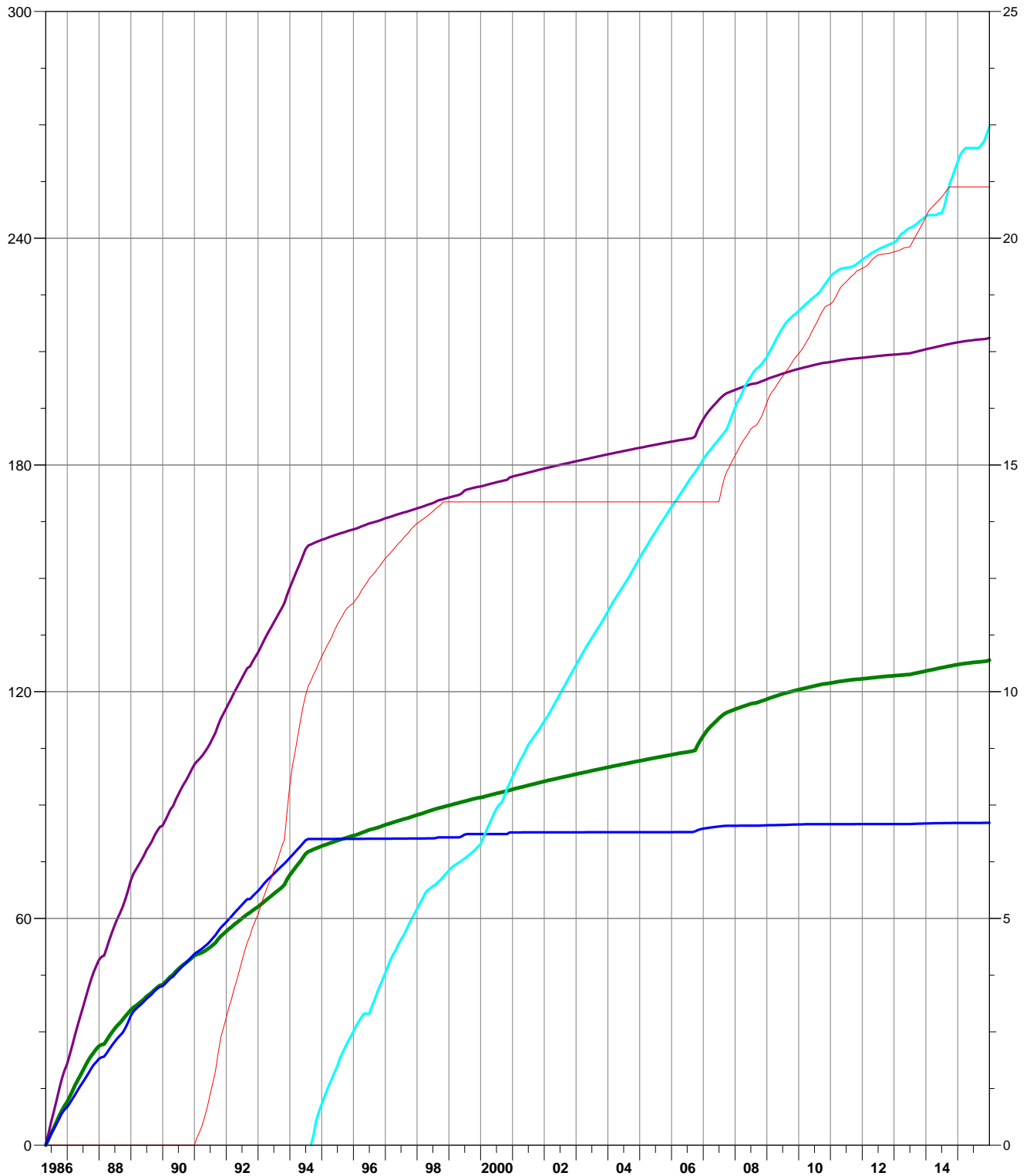
Cumulative Oil Prod : 124.23 Mbbl

Cumulative Liquid Prod : 209.20 Mbbl

Cumulative Water Prod : 84.98 Mbbl

Cumulative Water Inj : 238.86 Mbbl

Cumulative Gas Prod : 19.70 MMcf



# Pattern: 16-08 Set: PIERSON UNIT Total

Axis 1 16-08

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

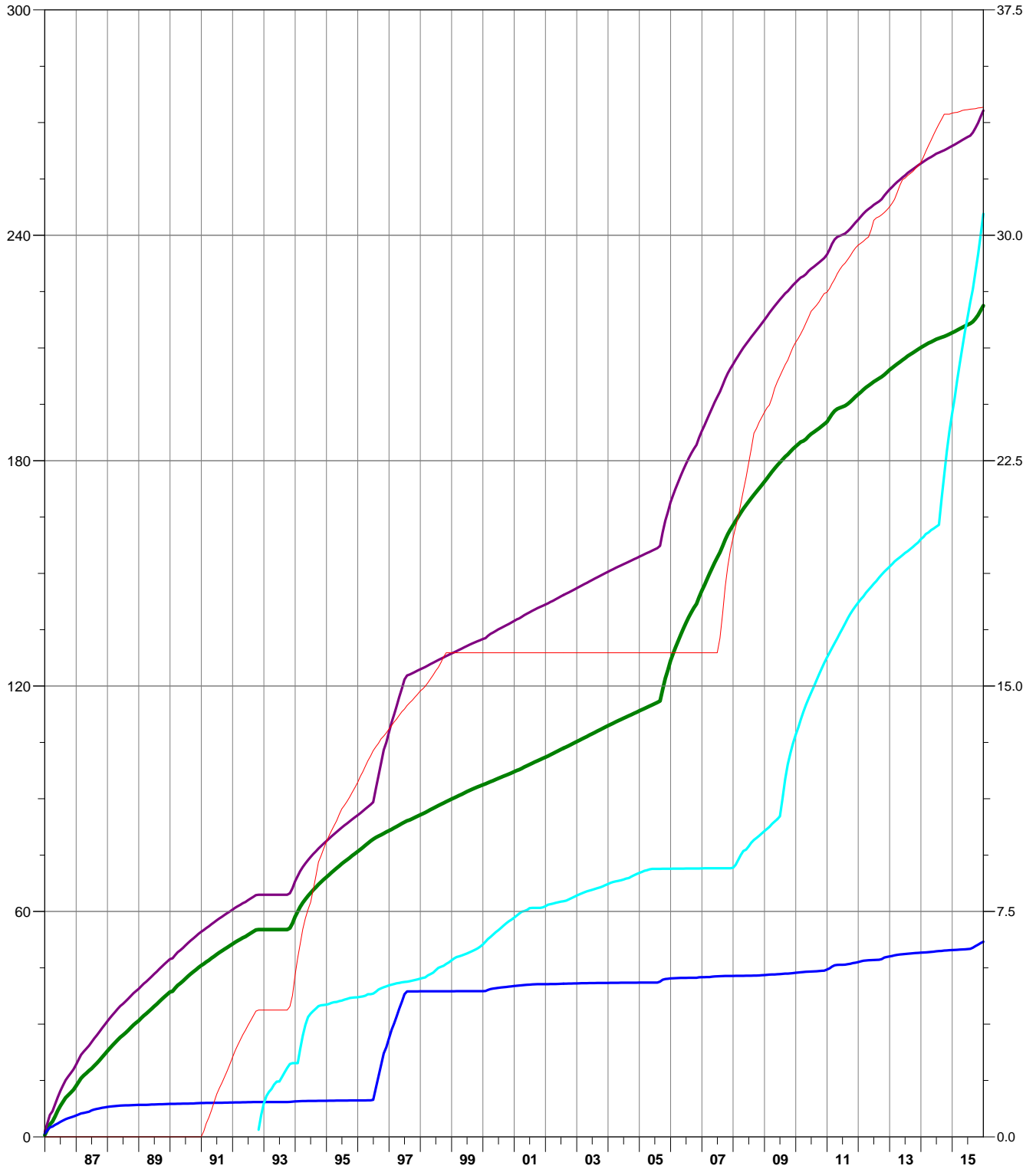
Cumulative Oil Prod : 204.14 Mbbl

Cumulative Liquid Prod : 252.17 Mbbl

Cumulative Water Prod : 48.03 Mbbl

Cumulative Water Inj : 151.74 Mbbl

Cumulative Gas Prod : 30.94 MMcf





# Pattern: 16-09 Set: PIERSON UNIT Total

Axis 1 16-09

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

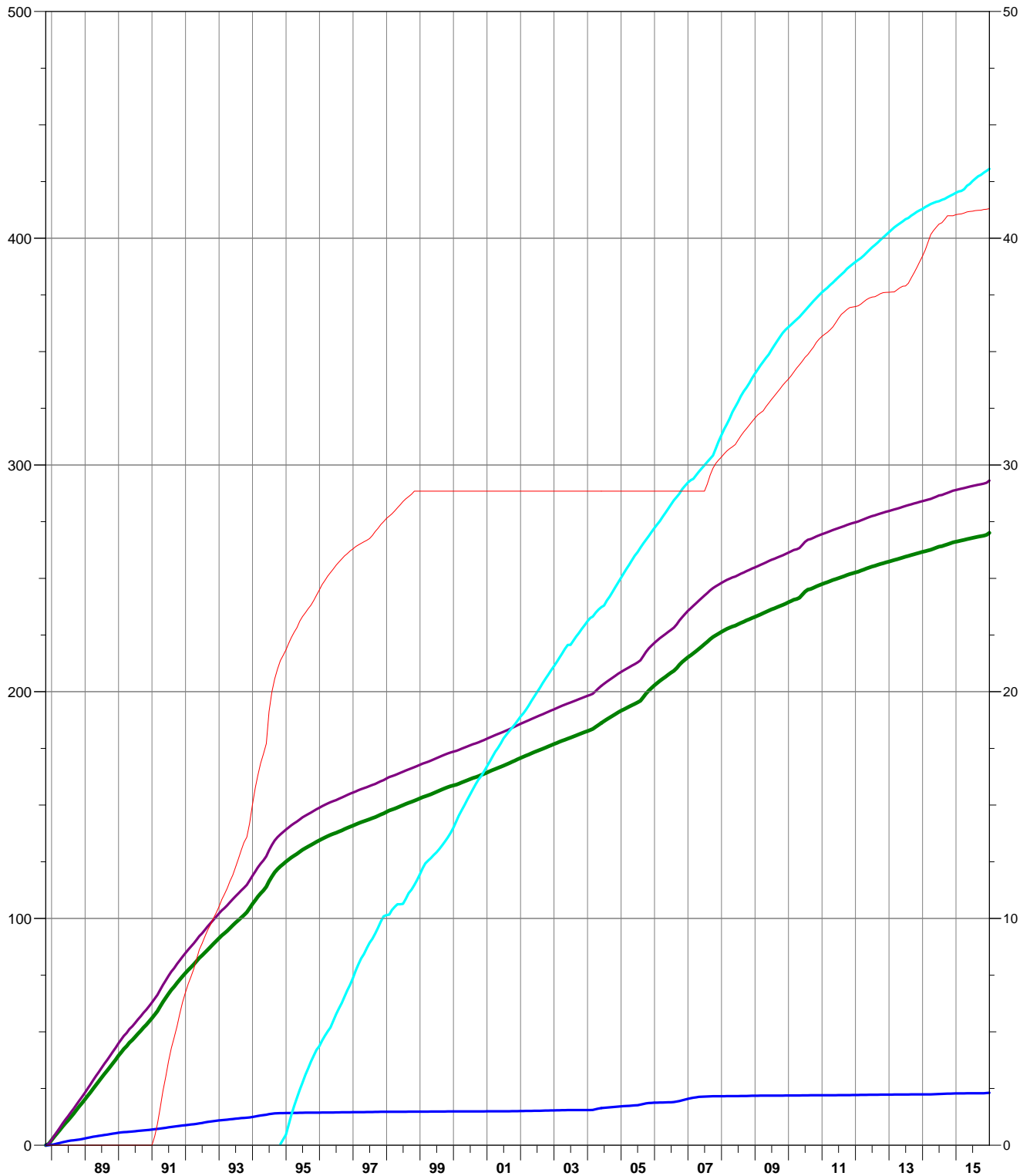
Cumulative Oil Prod : 257.40 Mbbl

Cumulative Liquid Prod : 279.71 Mbbl

Cumulative Water Prod : 22.30 Mbbl

Cumulative Water Inj : 402.68 Mbbl

Cumulative Gas Prod : 37.62 MMcf



# Pattern: 16-17 Set: PIERSON UNIT Total

Axis 1 16-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

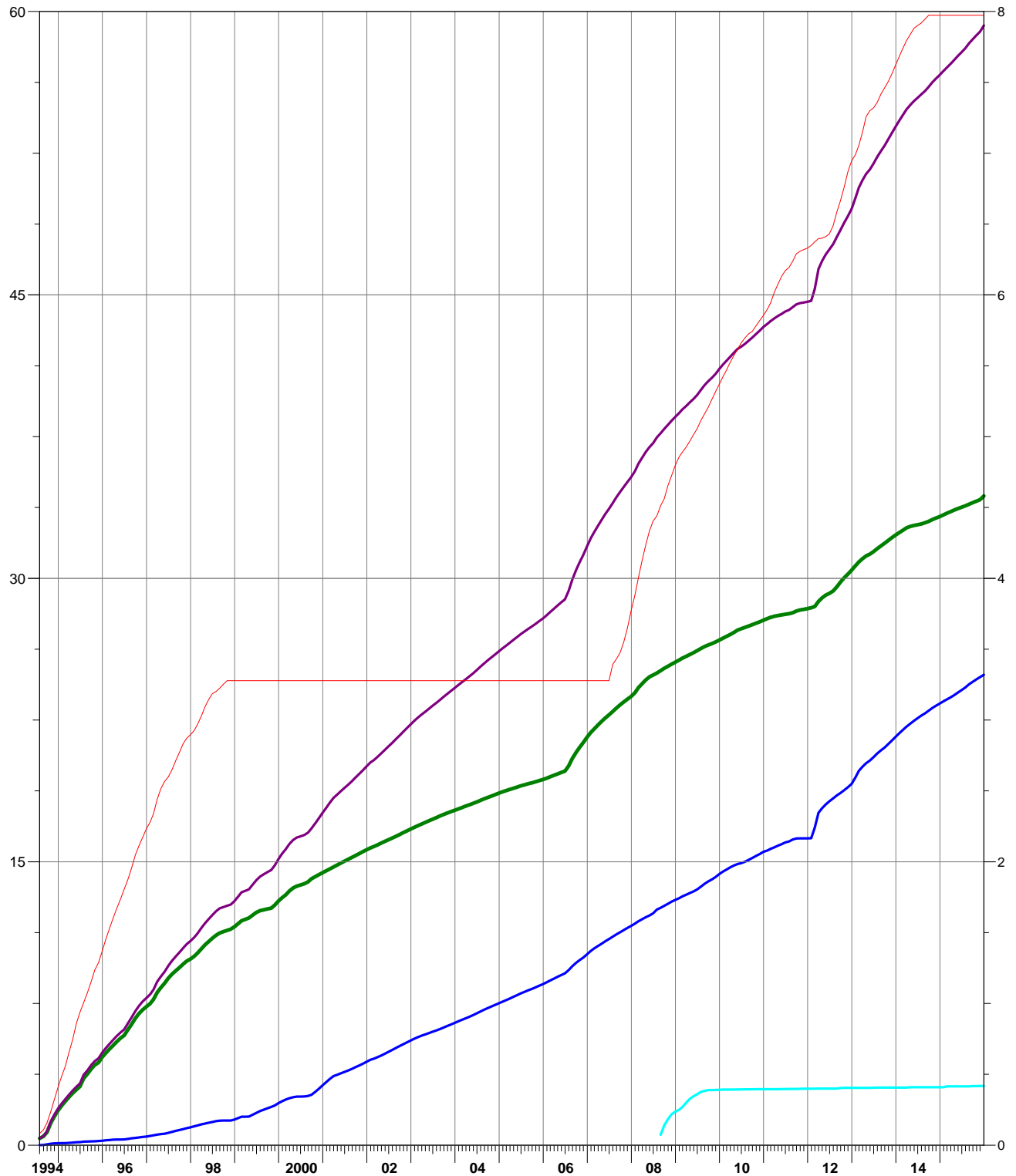
Cumulative Oil Prod : 30.44 Mbbl

Cumulative Liquid Prod : 49.56 Mbbl

Cumulative Water Prod : 19.12 Mbbl

Cumulative Water Inj : 3.03 Mbbl

Cumulative Gas Prod : 6.95 MMcf



# Pattern: 16-18 Set: PIERSON UNIT Total

Axis 1 16-18

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

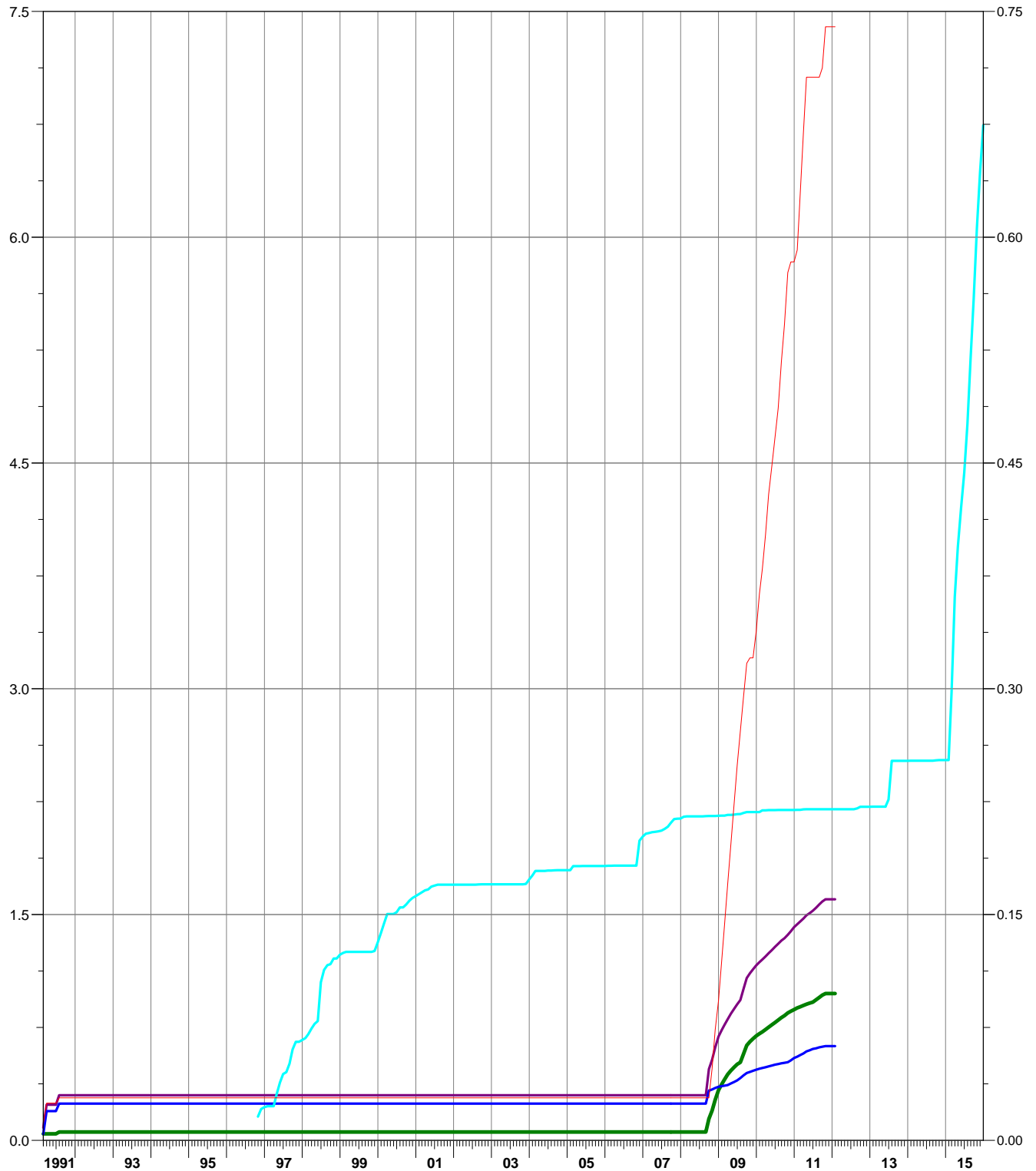
Cumulative Oil Prod : 0.98 Mbbl

Cumulative Liquid Prod : 1.60 Mbbl

Cumulative Water Prod : 0.63 Mbbl

Cumulative Water Inj : 2.22 Mbbl

Cumulative Gas Prod : 0.74 MMcf



# Pattern: 10-04 Set: PIERSON UNIT Total

Axis 1 10-04

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

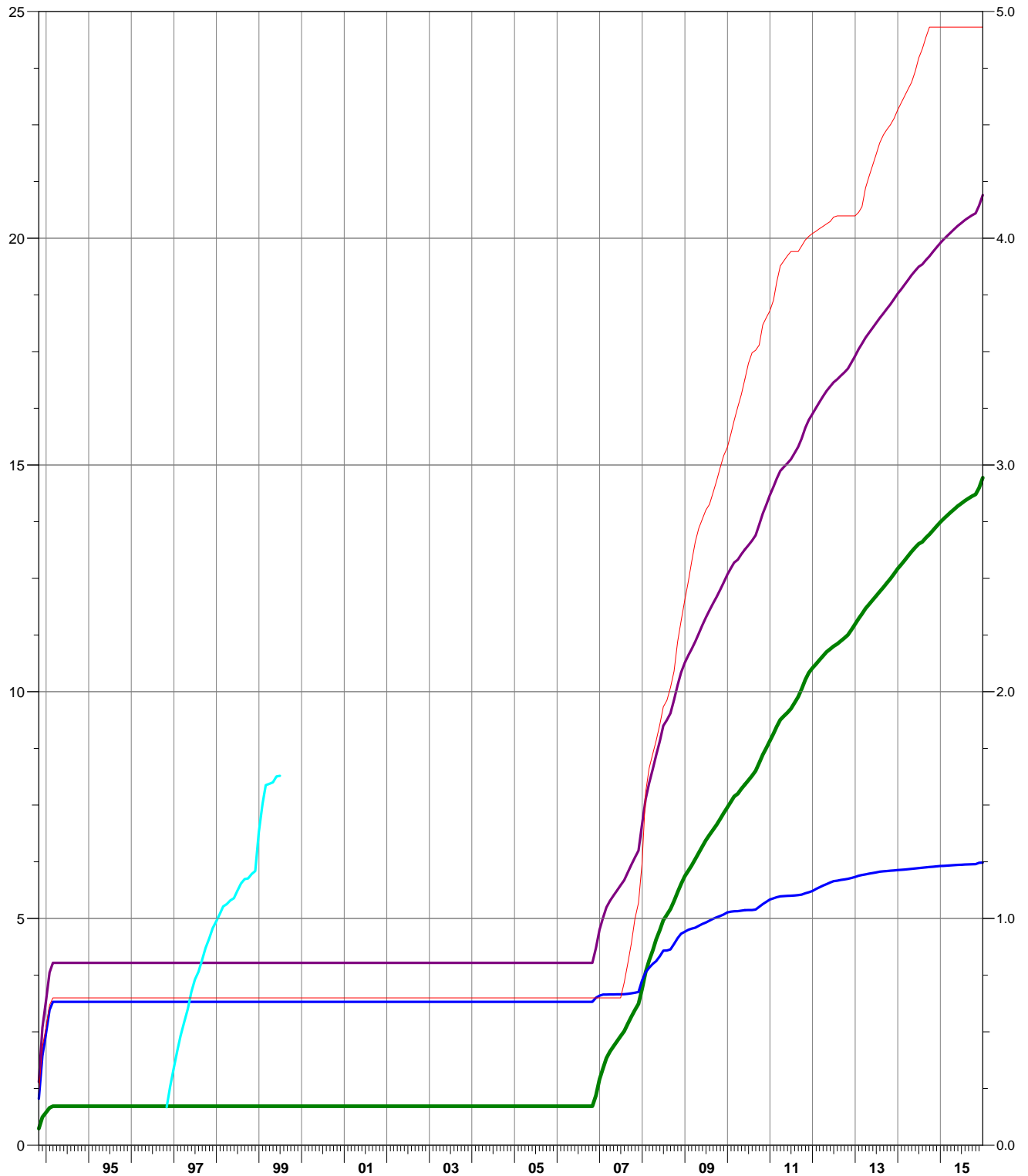
Cumulative Oil Prod : 11.49 Mbbl

Cumulative Liquid Prod : 17.40 Mbbl

Cumulative Water Prod : 5.91 Mbbl

Cumulative Water Inj : 8.15 Mbbl

Cumulative Gas Prod : 4.10 MMcf



# Pattern: 14-17 Set: PIERSON UNIT Total

Axis 1 14-17

- Cumulative Oil Prod ( Mbbl )
- Cumulative Liquid Prod ( Mbbl )
- Cumulative Water Prod ( Mbbl )
- Cumulative Water Inj ( Mbbl )

Axis 2

- Cumulative Gas Prod ( MMcf )

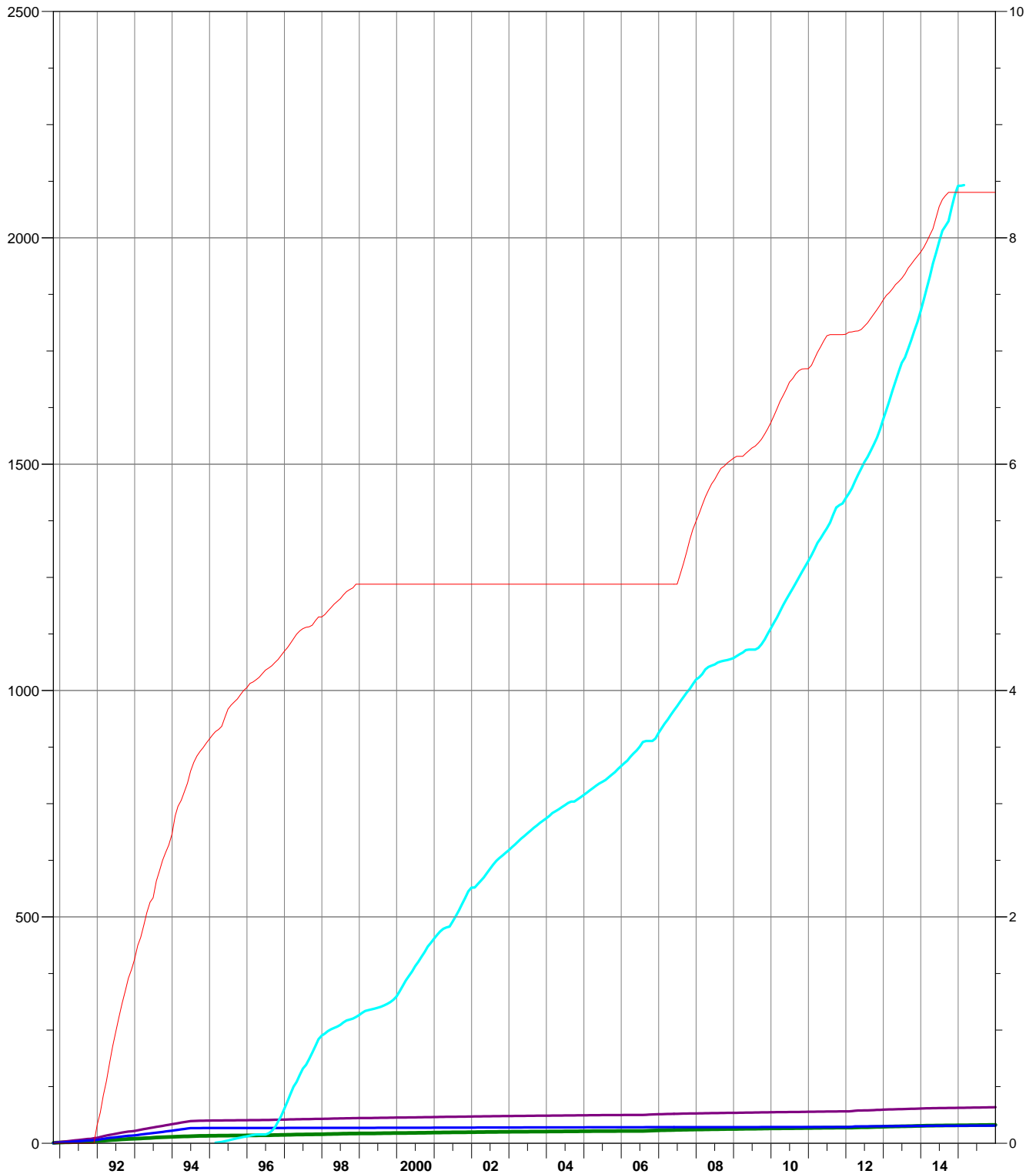
Cumulative Oil Prod : 36.46 Mbbl

Cumulative Liquid Prod : 74.09 Mbbl

Cumulative Water Prod : 37.63 Mbbl

Cumulative Water Inj : 1598.93 Mbbl

Cumulative Gas Prod : 7.45 MMcf



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Pattern Name	Date	Oil Rate (CD) bbl/d	Monthly Oil Prod bbl	Water Rate (CD) bbl/d	Monthly Water Prod bbl	Gas Rate (CD) Mcf/d	Monthly Gas Prod Mcf	Water Inj Rate (CD) bbl/d	Monthly Water Inj	Gas Oil Ratio cf/bbl	Water Oil Ratio bbl/bbl	Inst VRR	Cum VRR
Pattern: 10-09 Set: PIERs	Jan-15	15.67	486	2.61	81	0.00	0	17.82	3582	0.00	0.17	5.541	2.050
Pattern: 10-09 Set: PIERs	Feb-15	16.81	471	2.36	66	0.00	0	80.10	2435	0.00	0.14	3.581	2.051
Pattern: 10-09 Set: PIERs	Mar-15	16.30	505	2.35	73	0.00	0	70.14	2132	0.00	0.14	3.225	2.053
Pattern: 10-09 Set: PIERs	Apr-15	16.26	488	1.59	48	0.00	0	77.95	5410	0.00	0.10	8.495	2.060
Pattern: 10-09 Set: PIERs	May-15	15.08	467	0.62	19	0.00	0	84.19	2559	0.00	0.04	4.535	2.063
Pattern: 10-09 Set: PIERs	Jun-15	13.28	399	0.38	11	0.00	0	98.81	6044	0.00	0.03	2.282	2.072
Pattern: 10-09 Set: PIERs	Jul-15	12.47	387	0.37	11	0.00	0	87.54	5701	0.00	0.03	2.333	2.081
Pattern: 10-09 Set: PIERs	Aug-15	11.70	363	0.43	13	0.00	0	76.12	5354	0.00	0.04	2.278	2.089
Pattern: 10-09 Set: PIERs	Sep-15	11.31	339	0.56	17	0.00	0	53.14	4655	0.00	0.05	0.919	2.095
Pattern: 10-09 Set: PIERs	Oct-15	10.97	340	0.42	13	0.00	0	88.54	5731	0.00	0.04	3.993	2.104
Pattern: 10-09 Set: PIERs	Nov-15	12.50	375	2.24	67	0.00	0	73.91	5287	0.00	0.18	0.159	2.112
Pattern: 10-09 Set: PIERs	Dec-15	16.37	507	0.96	30	0.00	0	71.87	5225	0.00	0.06	8.411	2.119
			-----		-----		-----		-----				
			5127		450		0		4116				Sum



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Pattern: 10-17 Set: PIERSON UNIT Total  
South Pierson Unit #1 Group Production and Injection

Pattern Name	Date	Oil Rate (CD) bbl/d	Monthly Oil Prod bbl	Water Rate (CD) bbl/d	Monthly Water Prod bbl	Gas Rate (CD) Mcf/d	Monthly Gas Prod Mcf	Water Inj Rate (CD) bbl/d	Monthly Water Inj bbl	Gas Oil Ratio cf/bbl	Water Oil Ratio bbl/bbl	Inst VRR	Cum VRR	
Pattern: 10-17 Set: PIERS	Jan-15	6.65	206	11.66	362	0.00	0	0.09	3	0.00	1.75	0.005	0.030	
Pattern: 10-17 Set: PIERS	Feb-15	7.57	212	11.79	330	0.00	0	1.71	52	0.00	1.56	0.082	0.030	
Pattern: 10-17 Set: PIERS	Mar-15	7.82	243	12.50	387	0.00	0	0.84	25	0.00	1.60	0.038	0.030	
Pattern: 10-17 Set: PIERS	Apr-15	7.01	210	8.86	266	0.00	0			0.00	1.26		0.030	
Pattern: 10-17 Set: PIERS	May-15	6.85	212	7.84	243	0.00	0			0.00	1.14		0.030	
Pattern: 10-17 Set: PIERS	Jun-15	6.69	201	7.62	229	0.00	0			0.00	1.14		0.030	
Pattern: 10-17 Set: PIERS	Jul-15	6.94	215	7.91	245	0.00	0			0.00	1.14		0.030	
Pattern: 10-17 Set: PIERS	Aug-15	6.86	213	8.56	265	0.00	0	0.00	0	0.00	1.25	0.000	0.029	
Pattern: 10-17 Set: PIERS	Sep-15	6.78	203	7.15	214	0.00	0	3.66	111	0.00	1.05	0.241	0.030	
Pattern: 10-17 Set: PIERS	Oct-15	6.45	200	7.10	220	0.00	0			0.00	1.10		0.030	
Pattern: 10-17 Set: PIERS	Nov-15	6.53	196	6.57	197	0.00	0	2.51	76	0.00	1.01	0.175	0.030	
Pattern: 10-17 Set: PIERS	Dec-15	6.97	216	7.62	236	0.00	0			0.00	1.09		0.030	
			-----	-----		-----			-----					
			2527		3195		0		268					Sum

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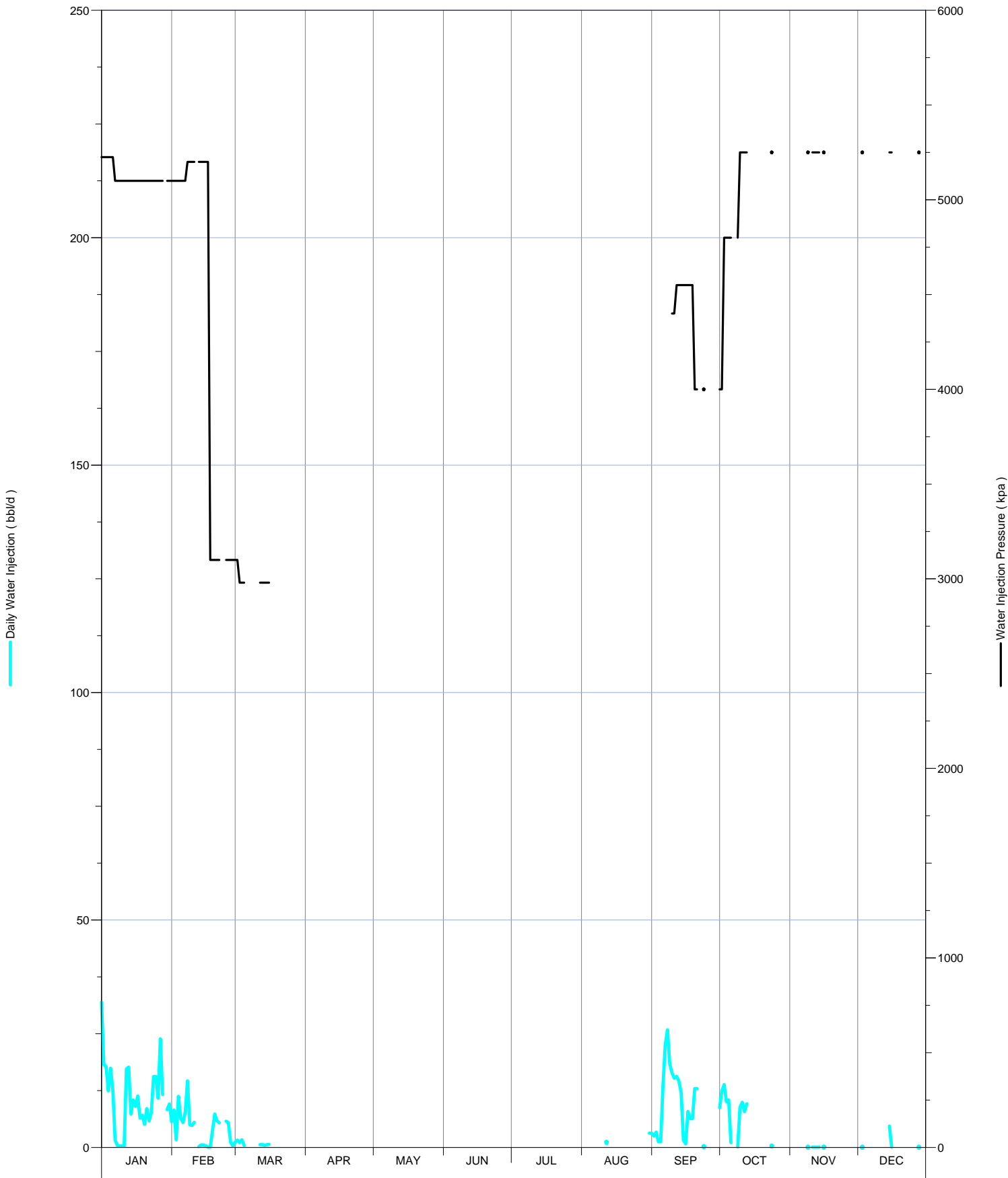




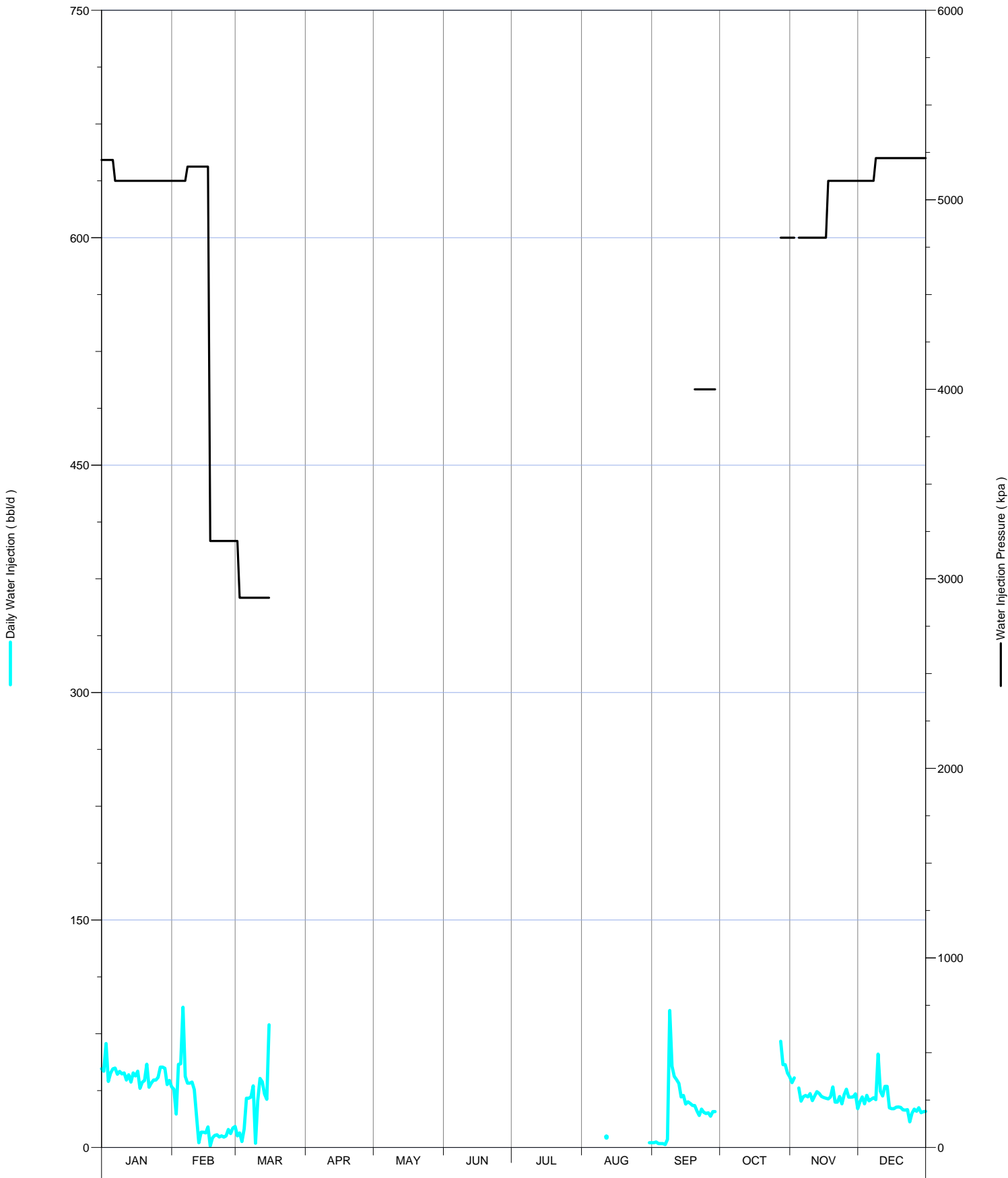
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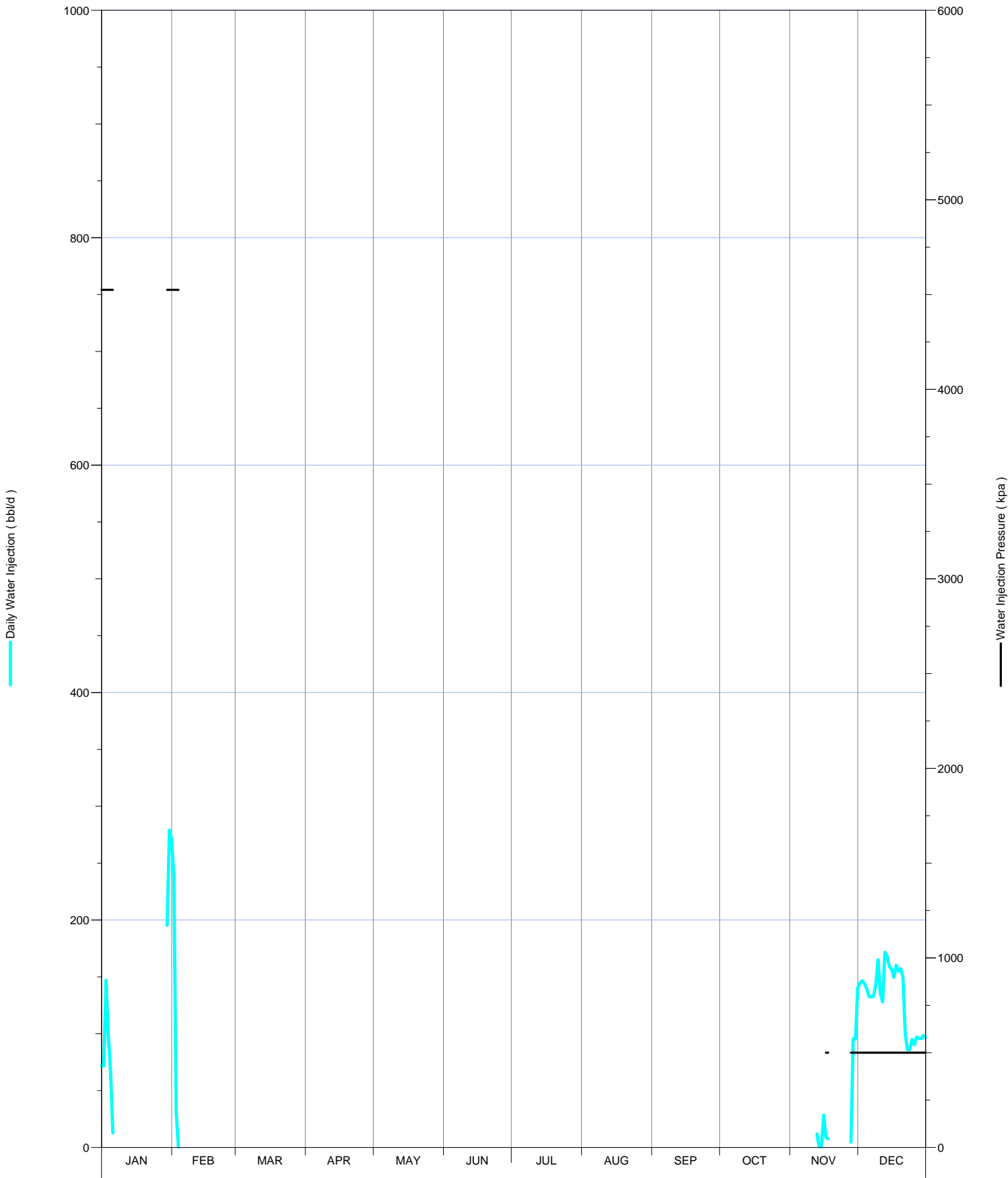
Daily Injection Rate and Pressure for: 00/02-08-002-29W1/0



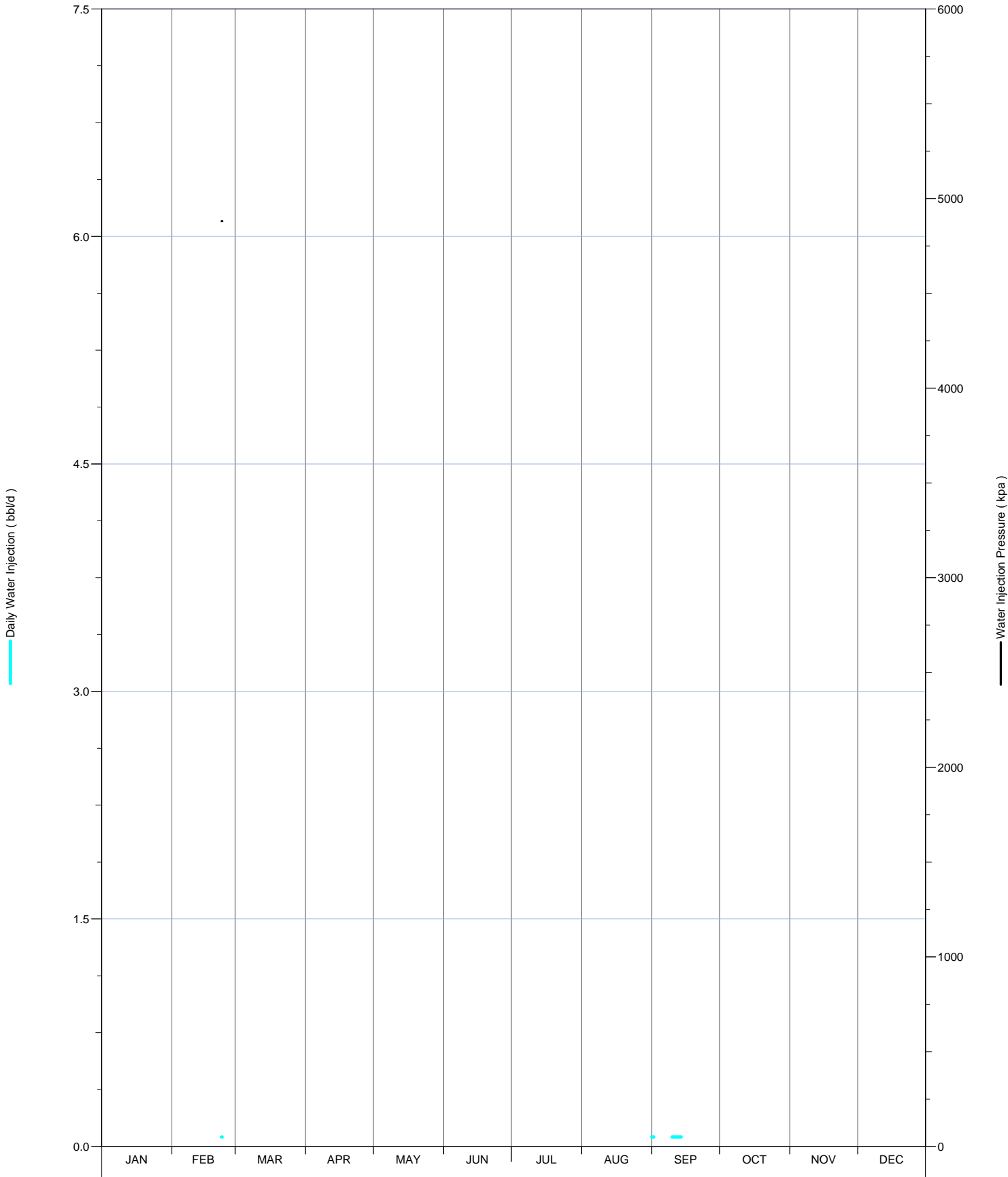
Daily Injection Rate and Pressure for: 00/02-09-002-29W1/0



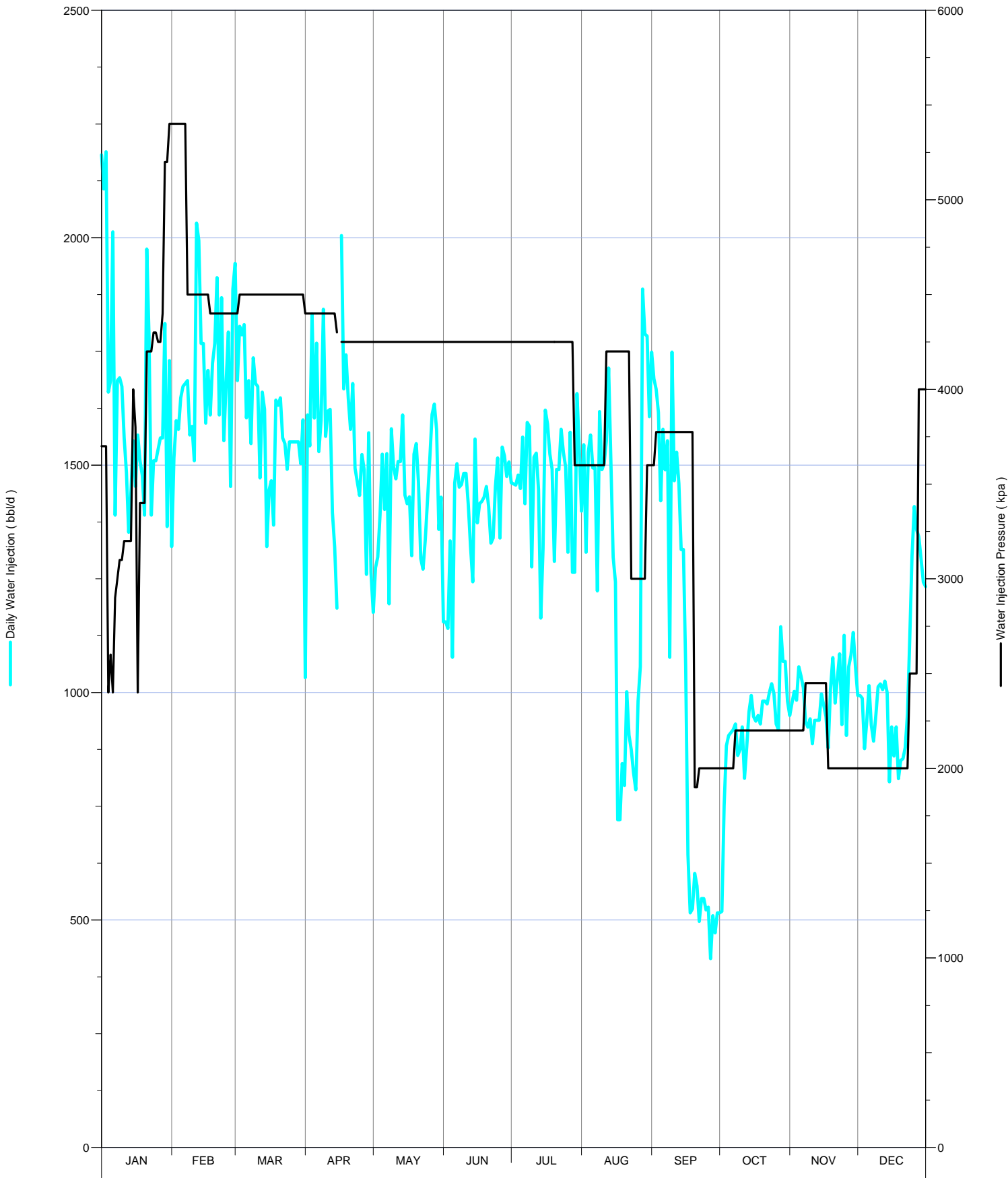
Daily Injection Rate and Pressure for: 00/02-16-002-29W1/0



Daily Injection Rate and Pressure for: 00/02-17-002-29W1/0

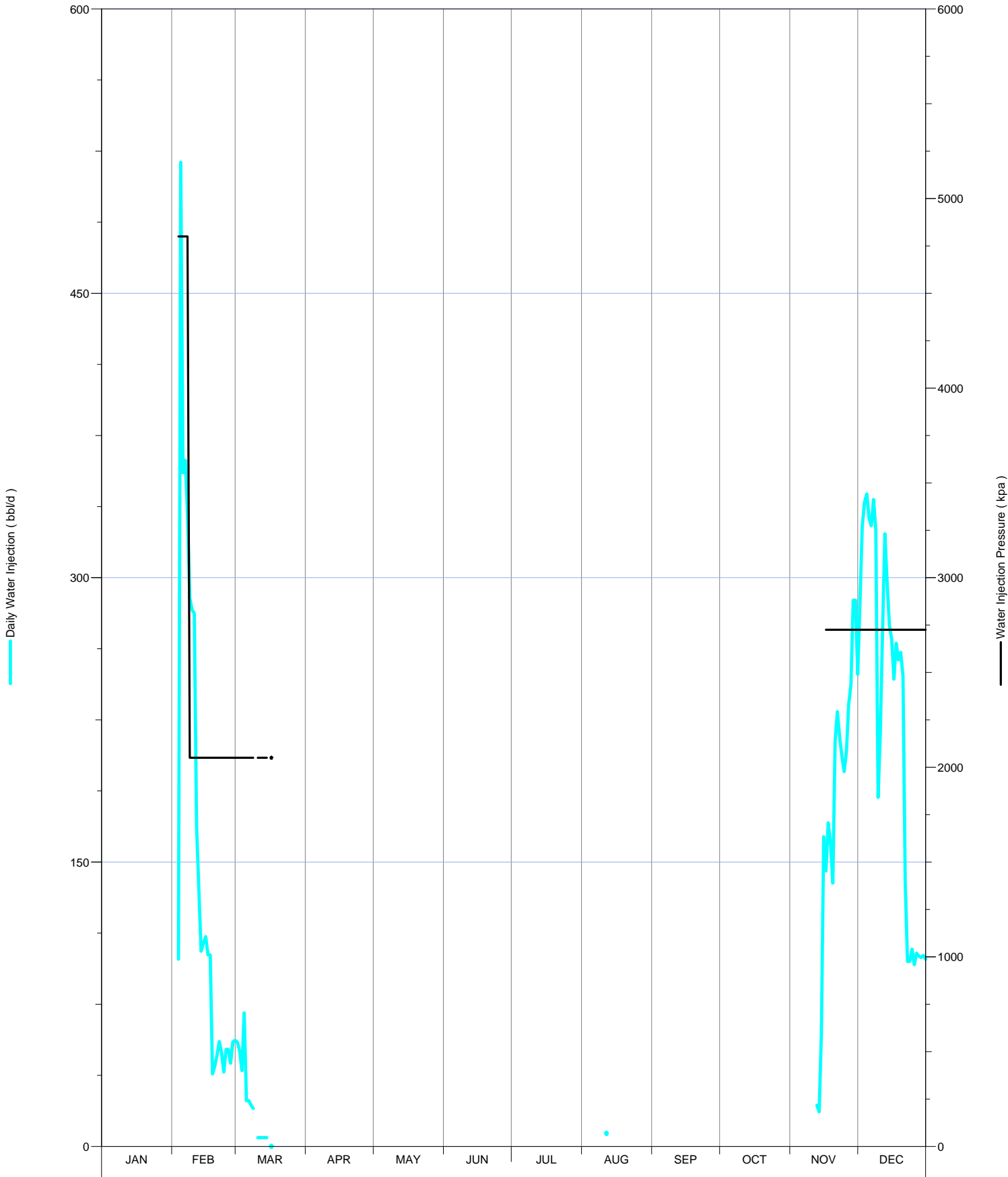


Daily Injection Rate and Pressure for: 00/04-09-002-29W1/0

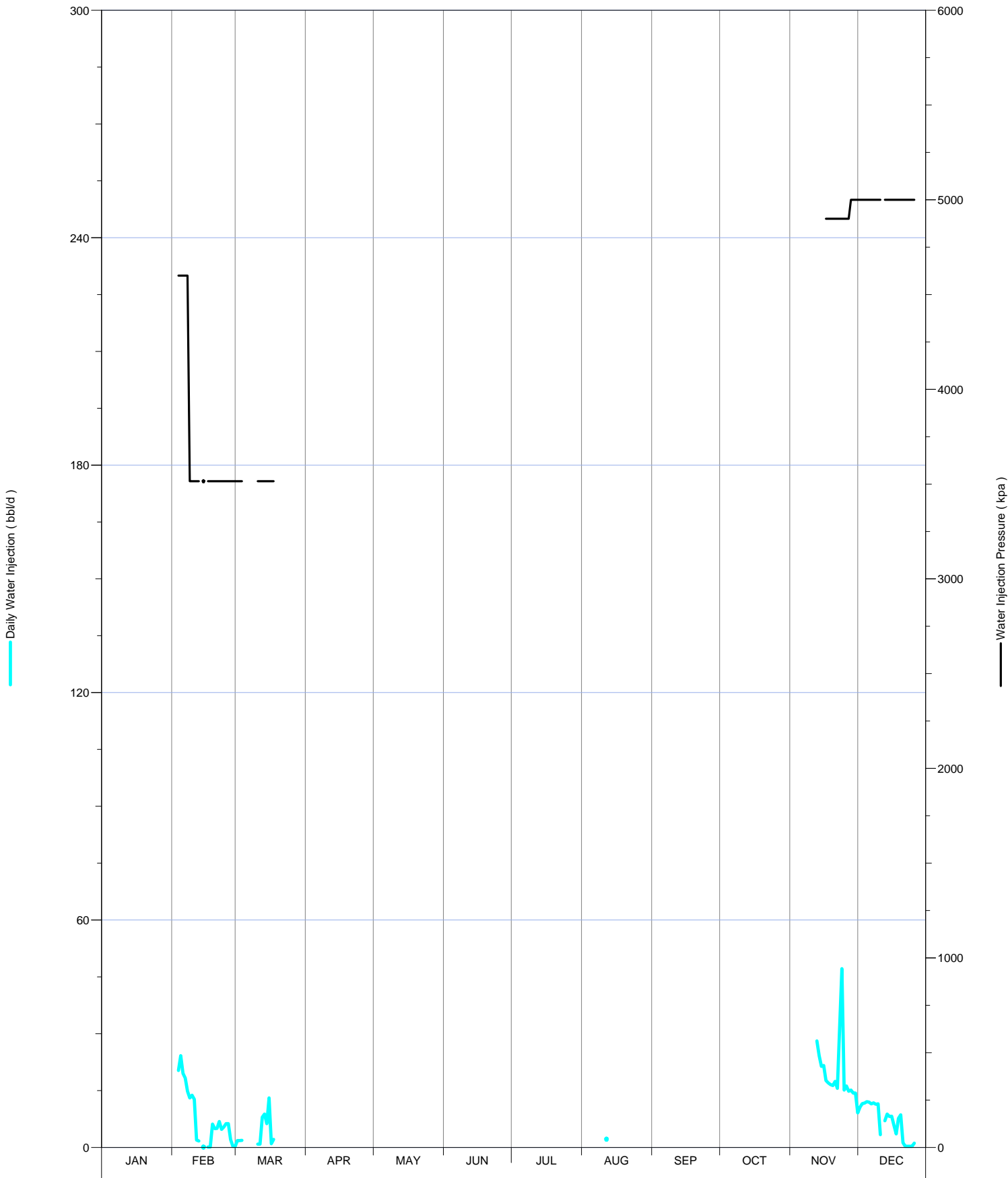




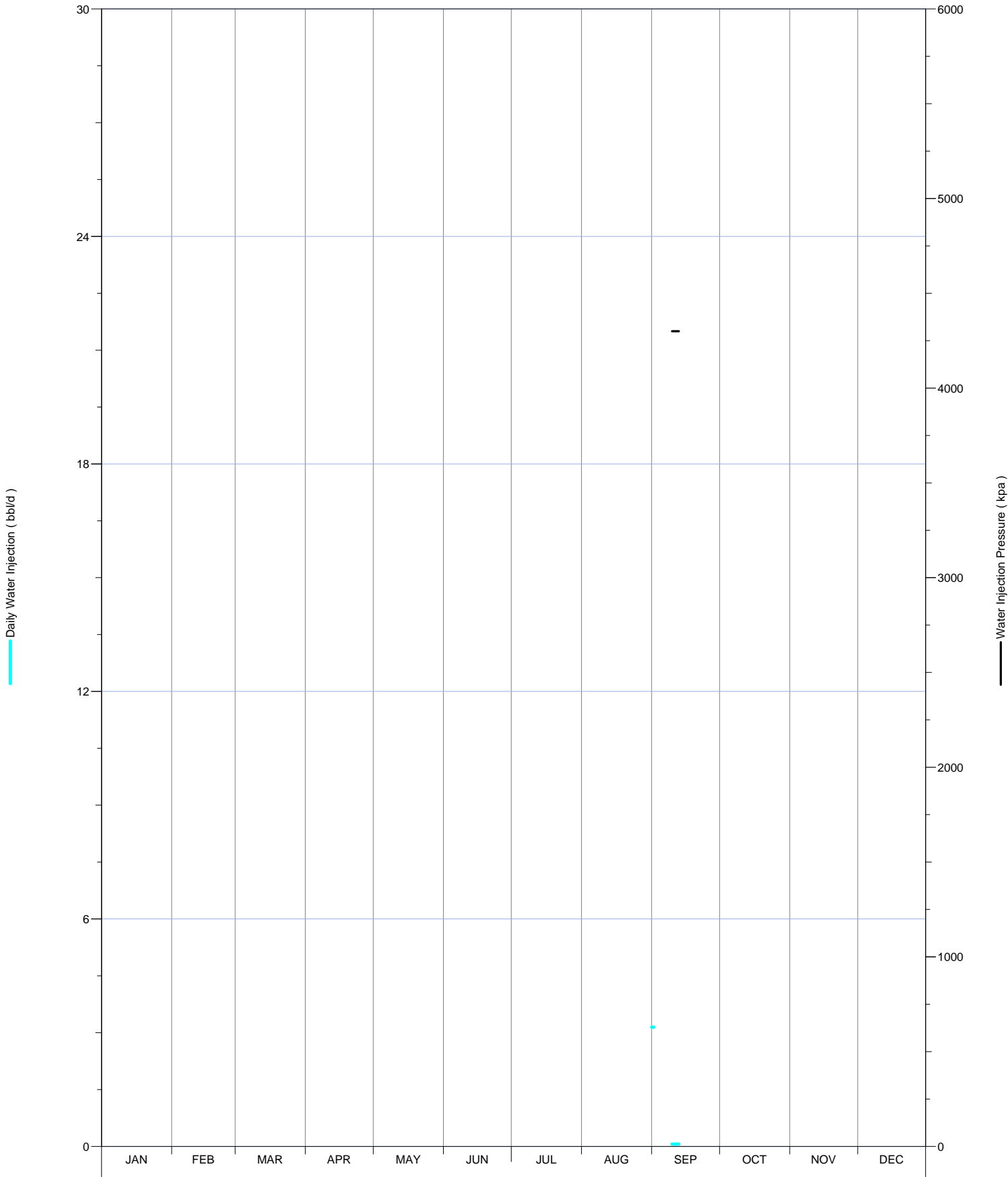
Daily Injection Rate and Pressure for: 00/04-15-002-29W1/0



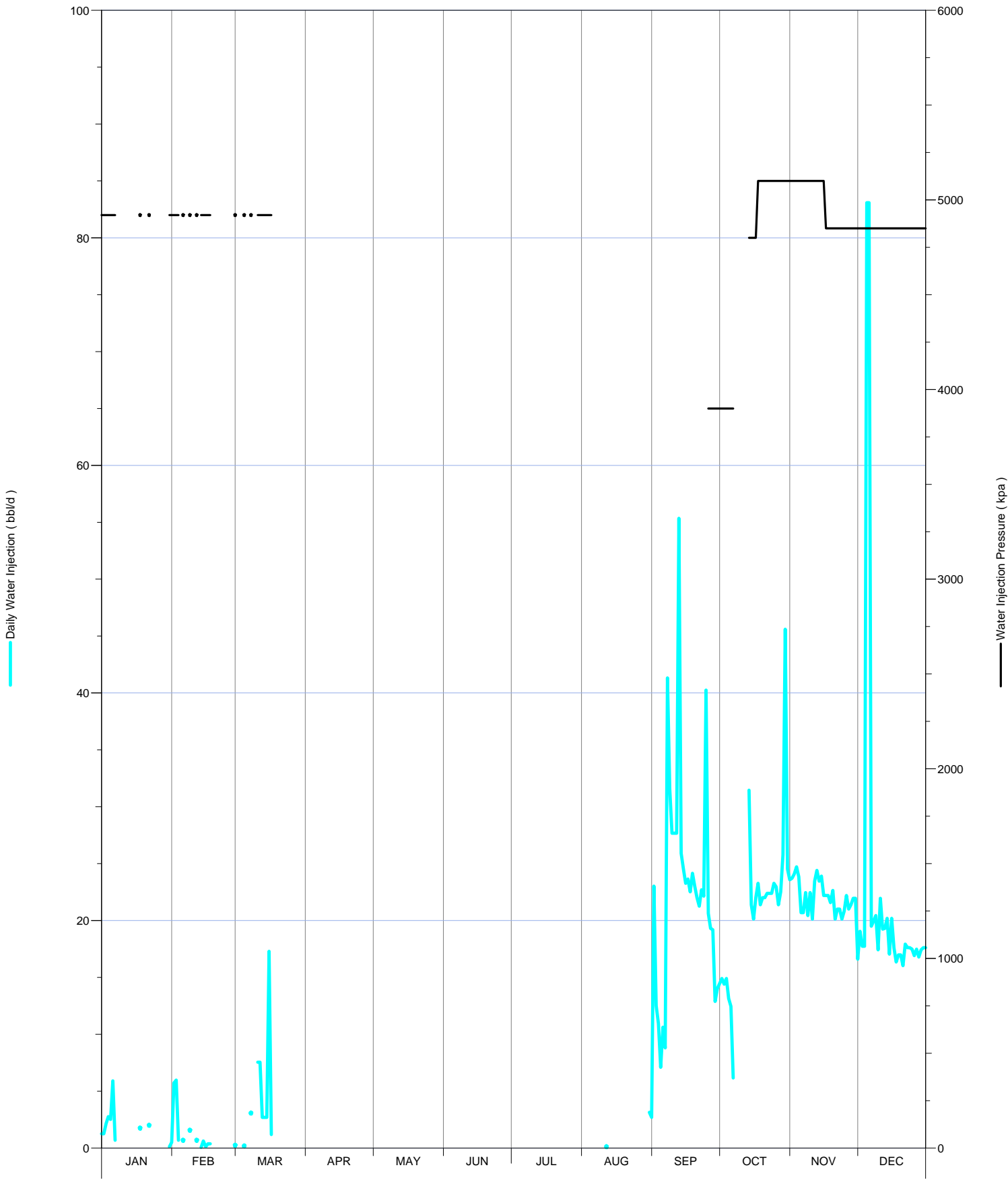
Daily Injection Rate and Pressure for: 00/04-16-002-29W1/0



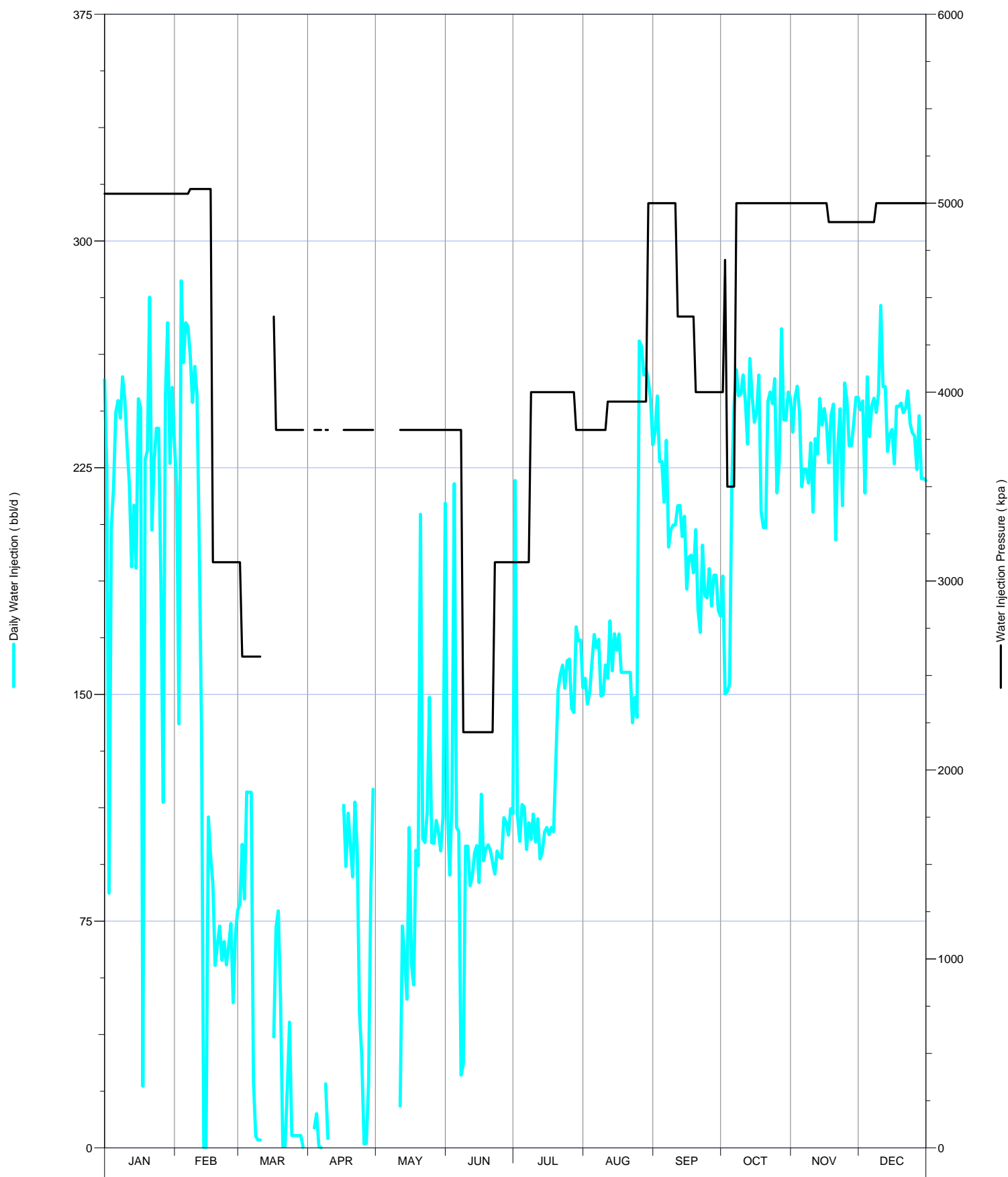
Daily Injection Rate and Pressure for: 00/04-17-002-29W1/0



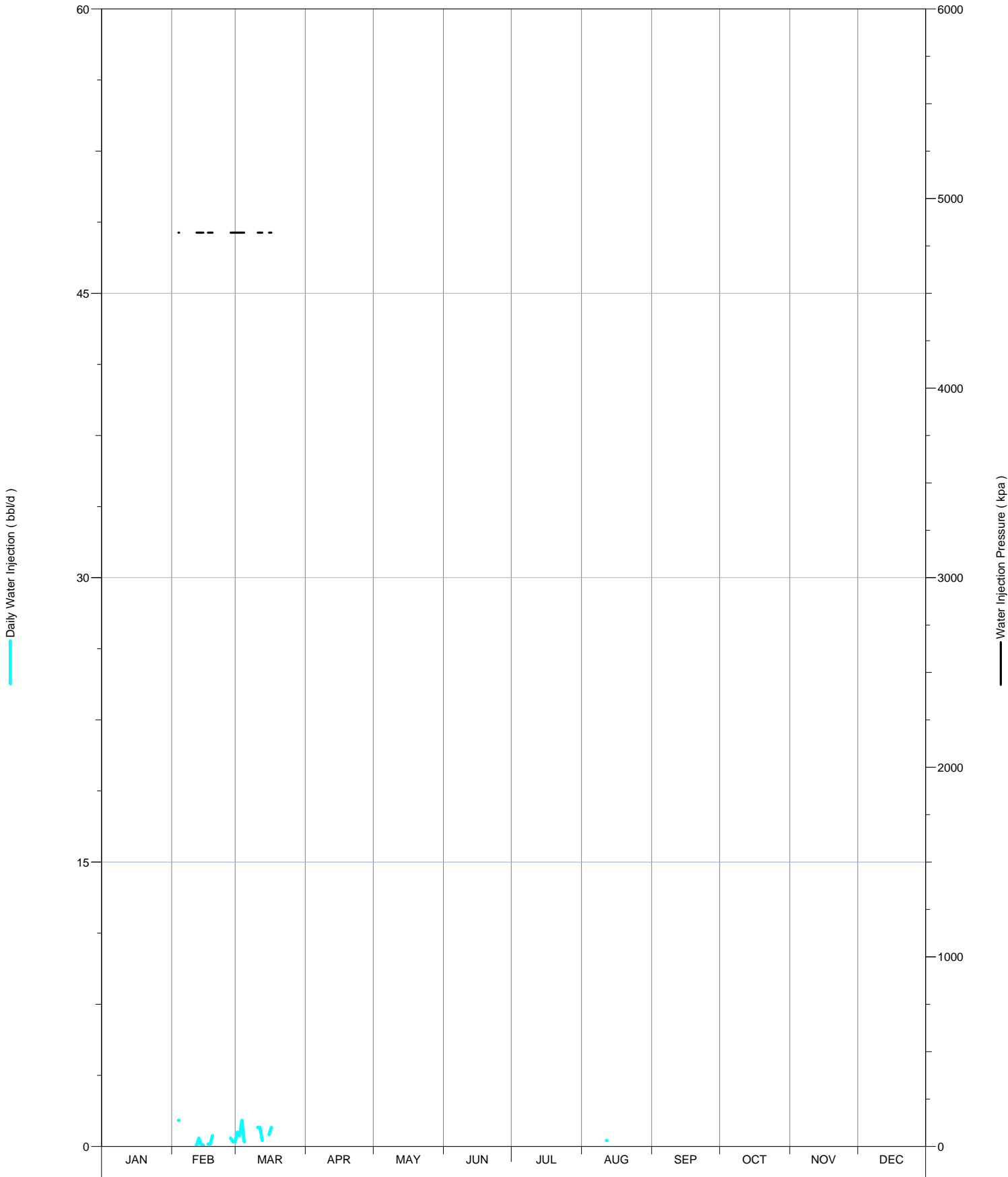
Daily Injection Rate and Pressure for: 00/06-08-002-29W1/0



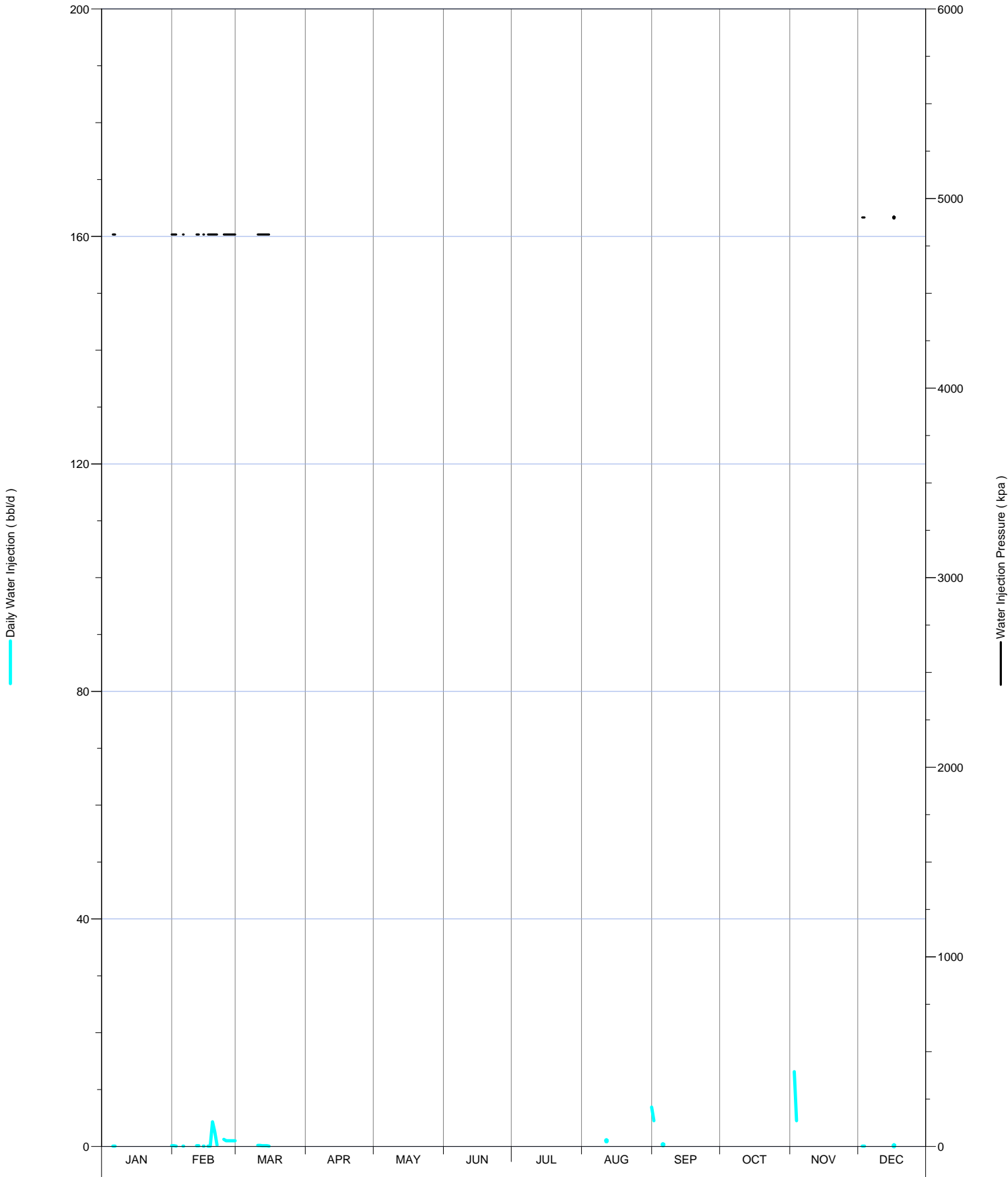
Daily Injection Rate and Pressure for: 00/06-09-002-29W1/0



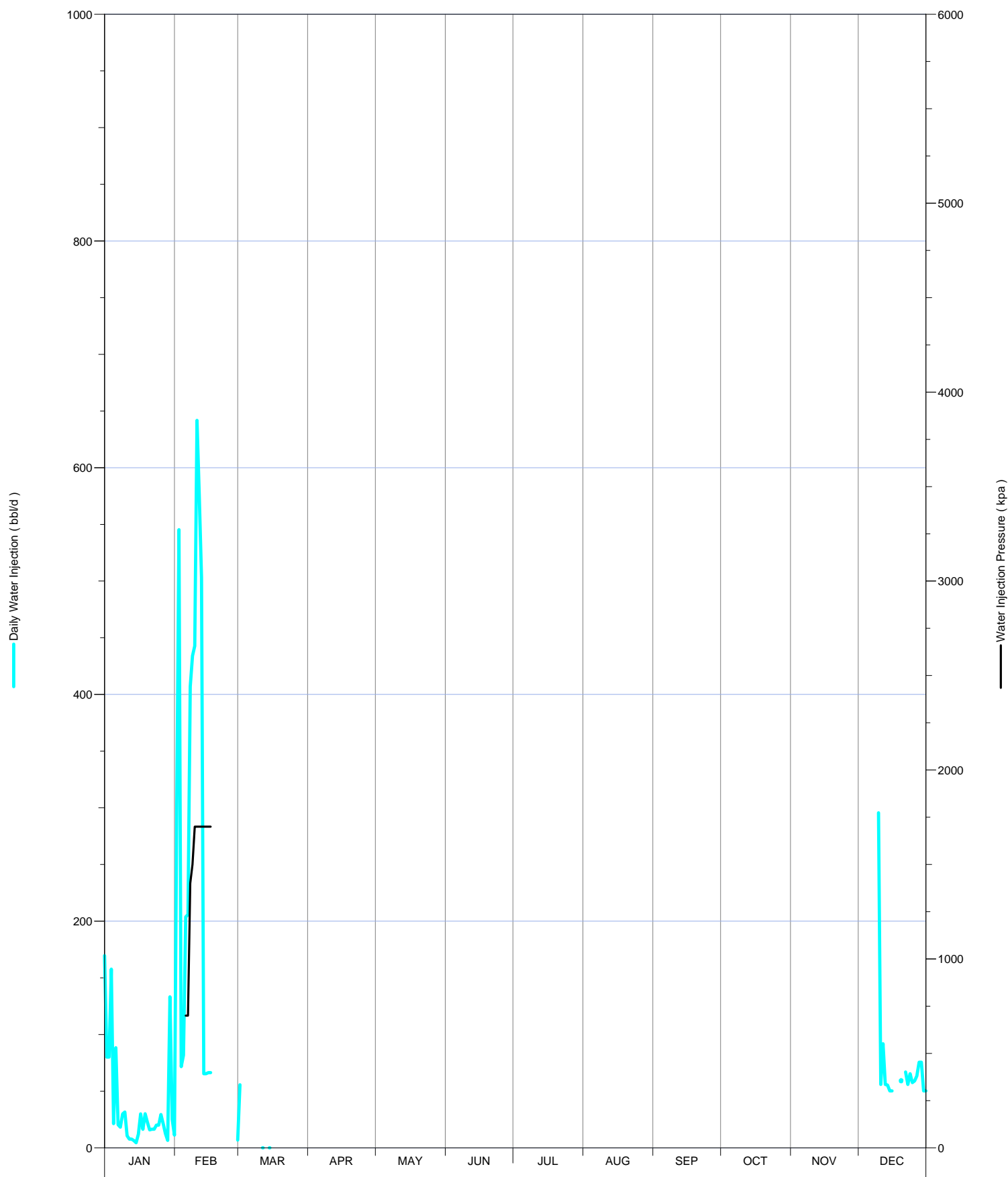
Daily Injection Rate and Pressure for: 00/06-16-002-29W1/0



Daily Injection Rate and Pressure for: 00/06-17-002-29W1/0

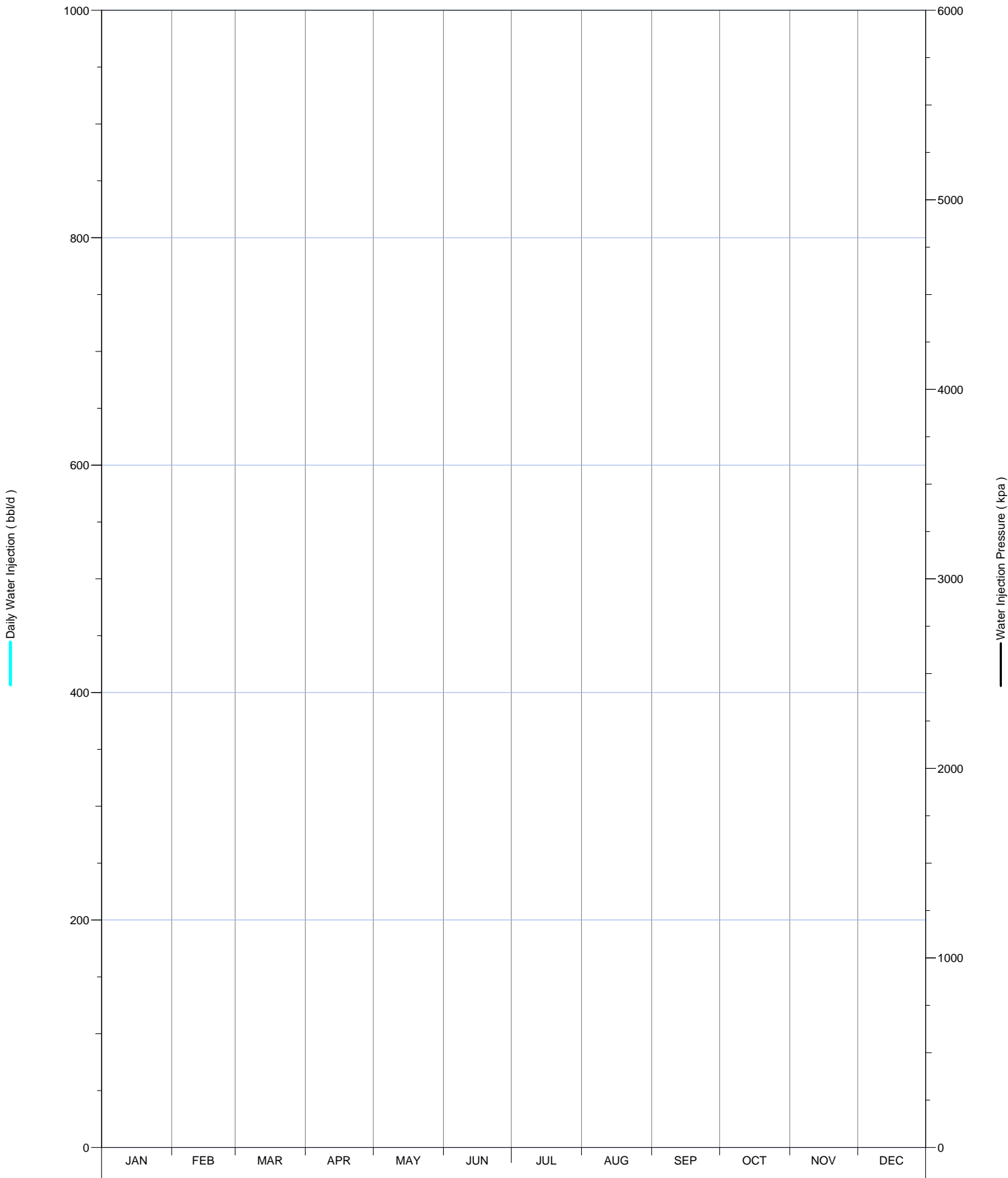


Daily Injection Rate and Pressure for: 00/08-08-002-29W1/0

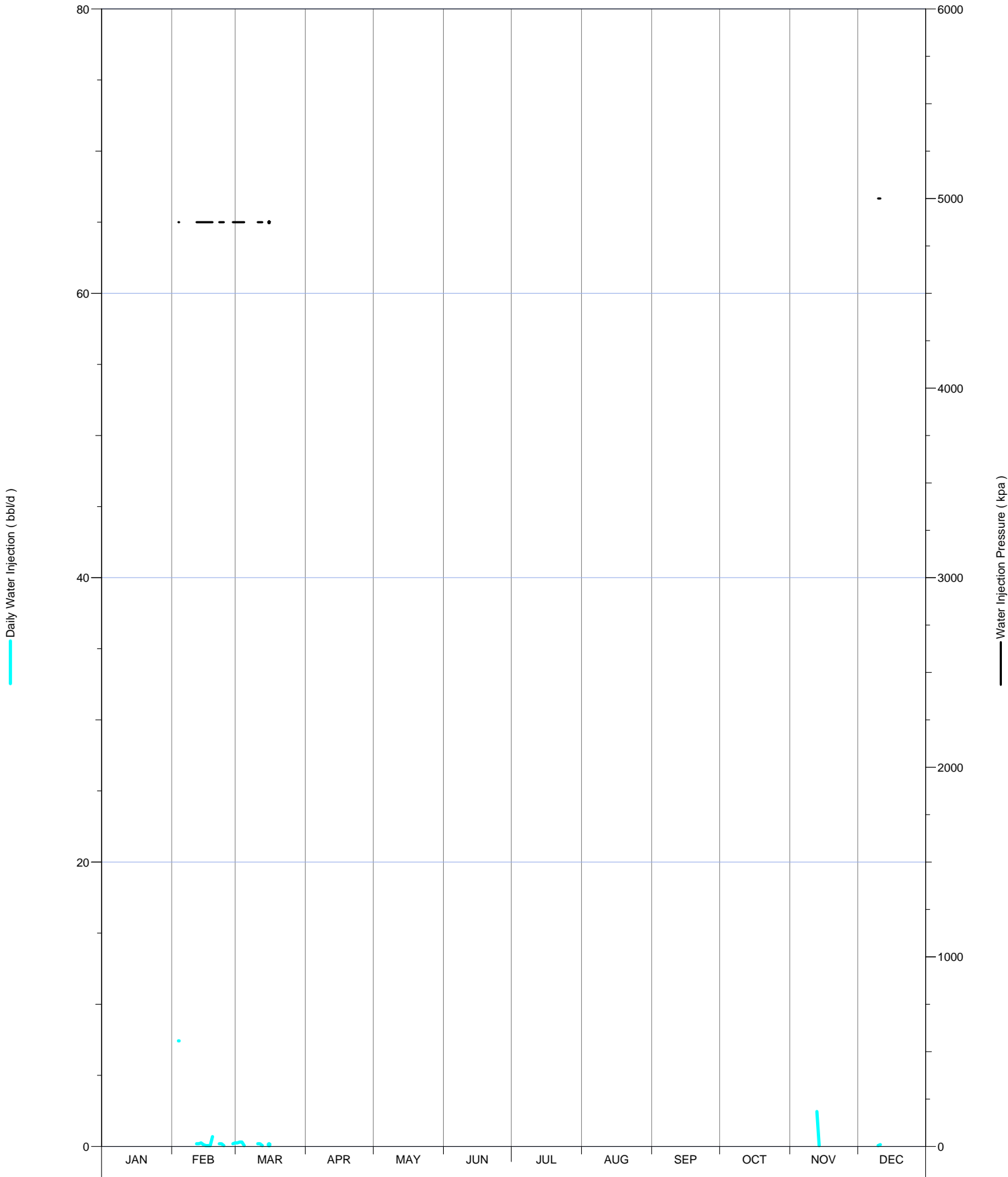




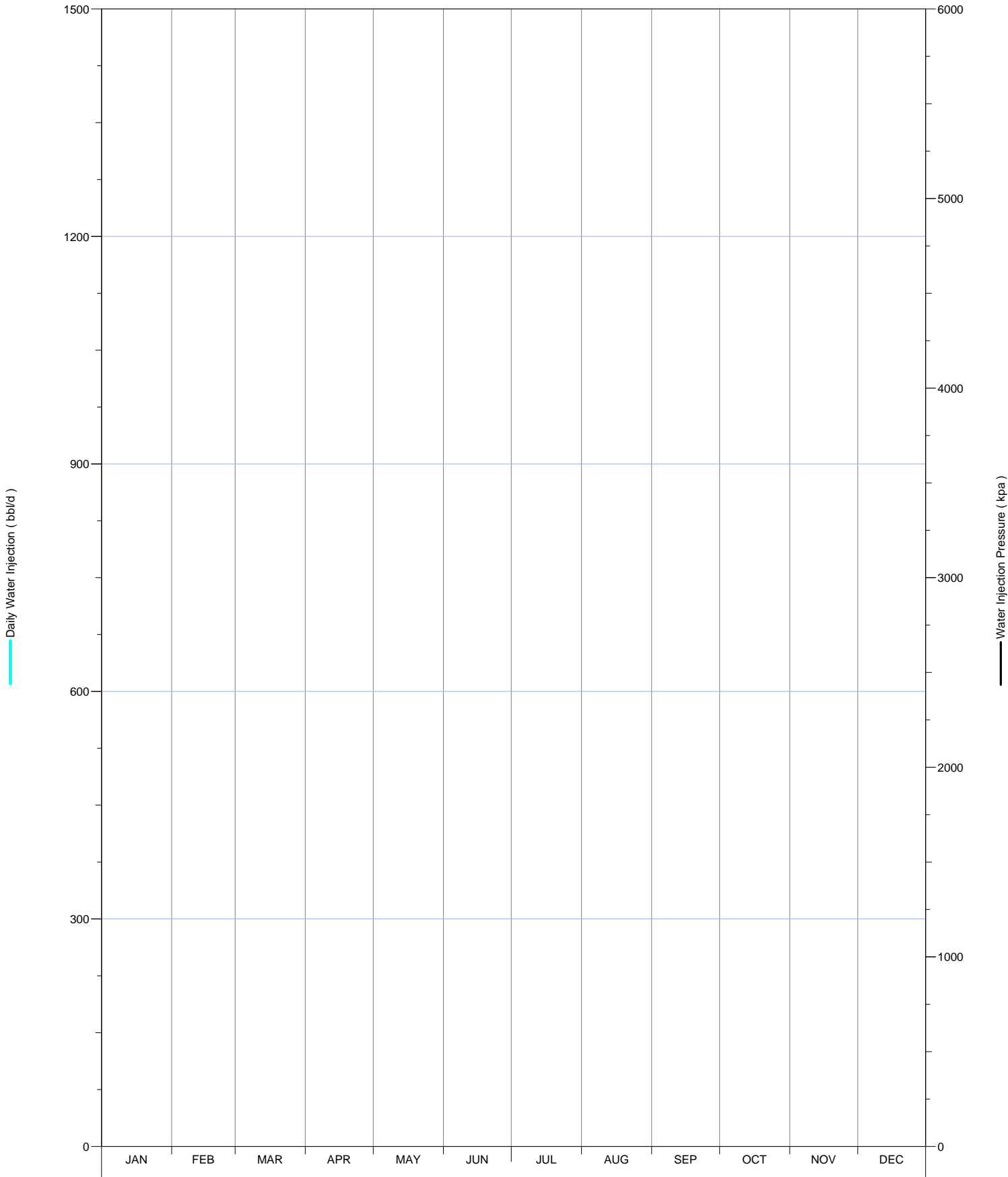
Daily Injection Rate and Pressure for: 00/08-09-002-29W1/0



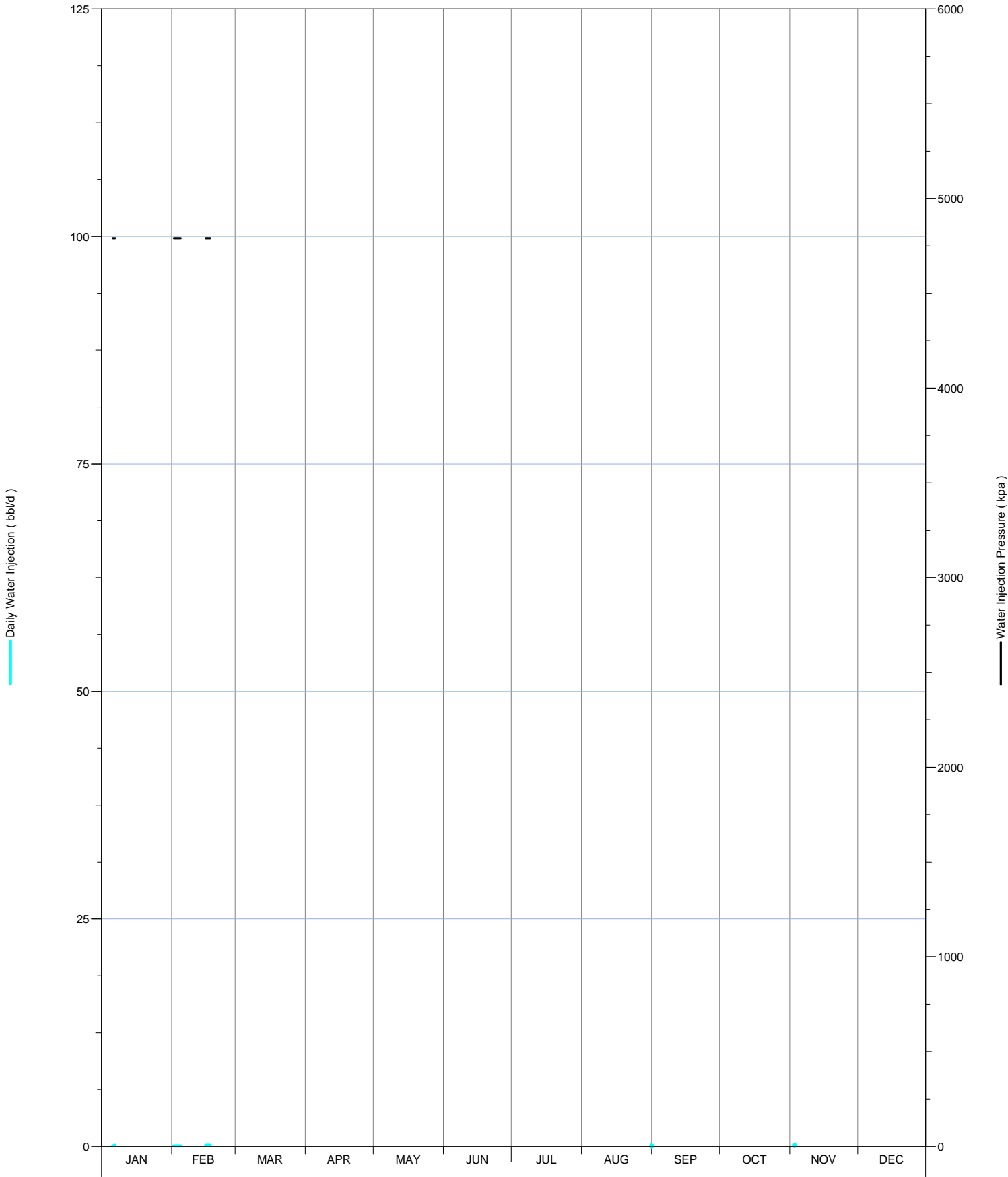
Daily Injection Rate and Pressure for: 00/08-16-002-29W1/0



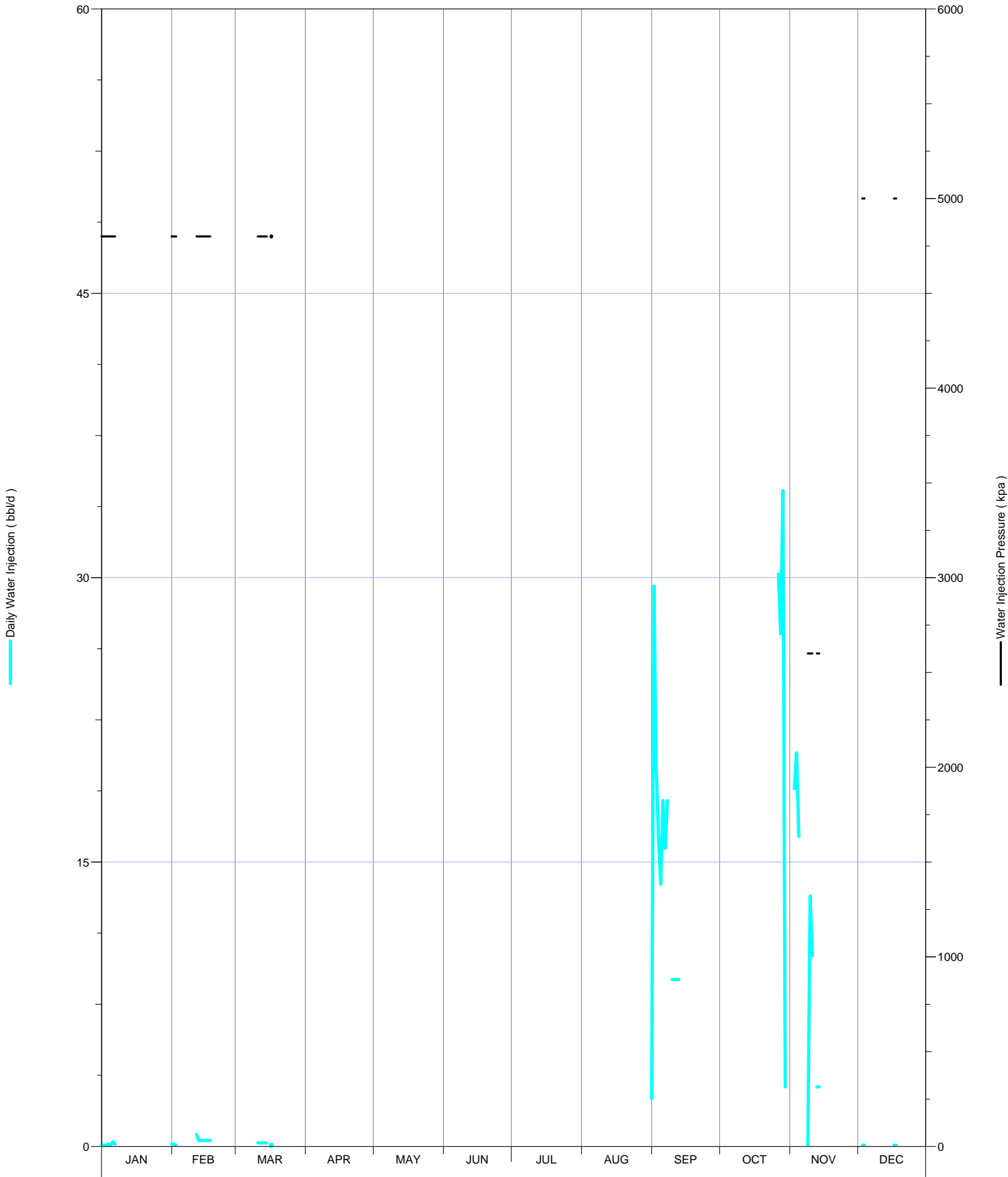
Daily Injection Rate and Pressure for: 00/08-17-002-29W1/0



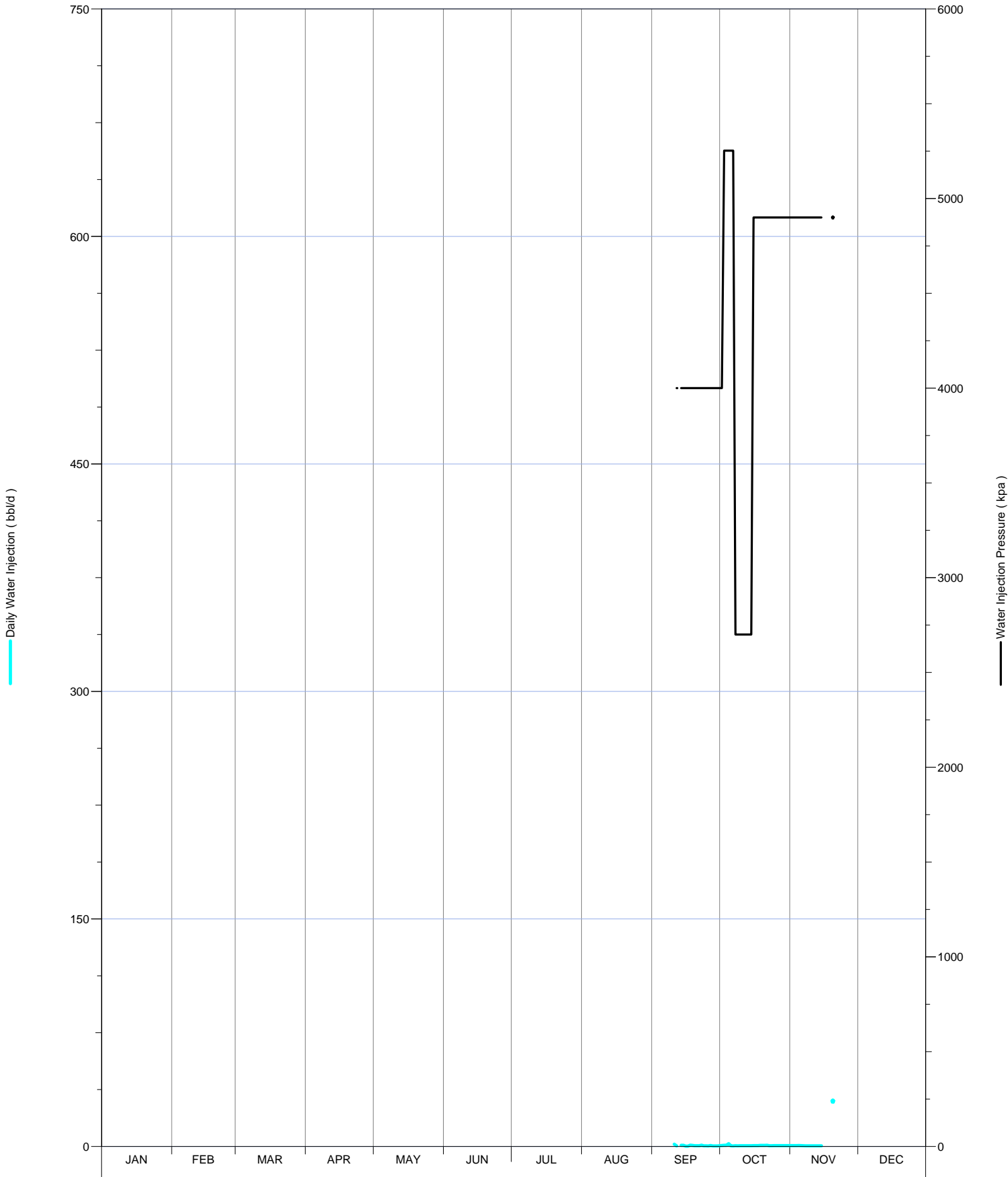
Daily Injection Rate and Pressure for: 00/08-18-002-29W1/0



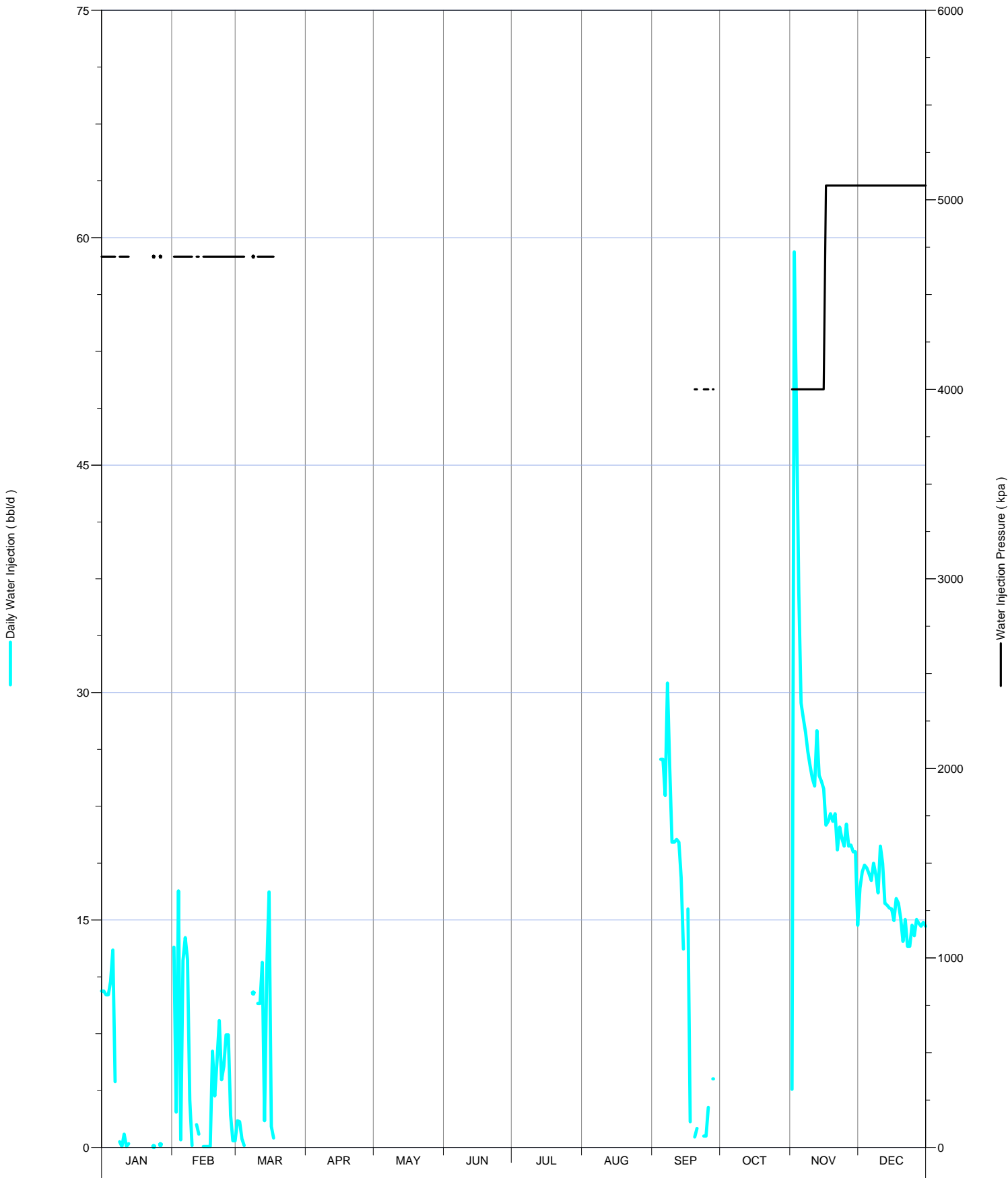
Daily Injection Rate and Pressure for: 00/10-08-002-29W1/0



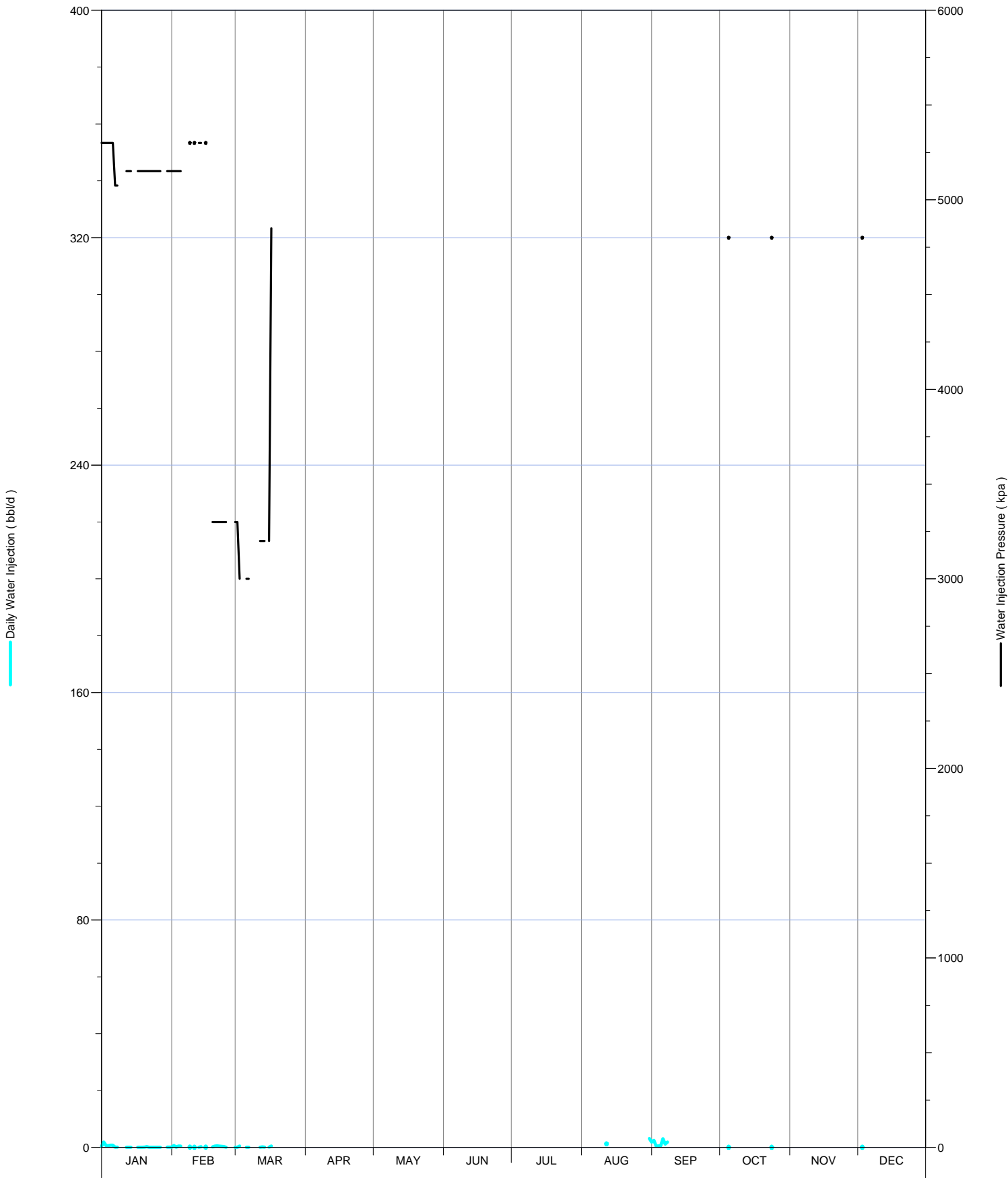
Daily Injection Rate and Pressure for: 00/10-09-002-29W1/0



Daily Injection Rate and Pressure for: 00/10-16-002-29W1/0

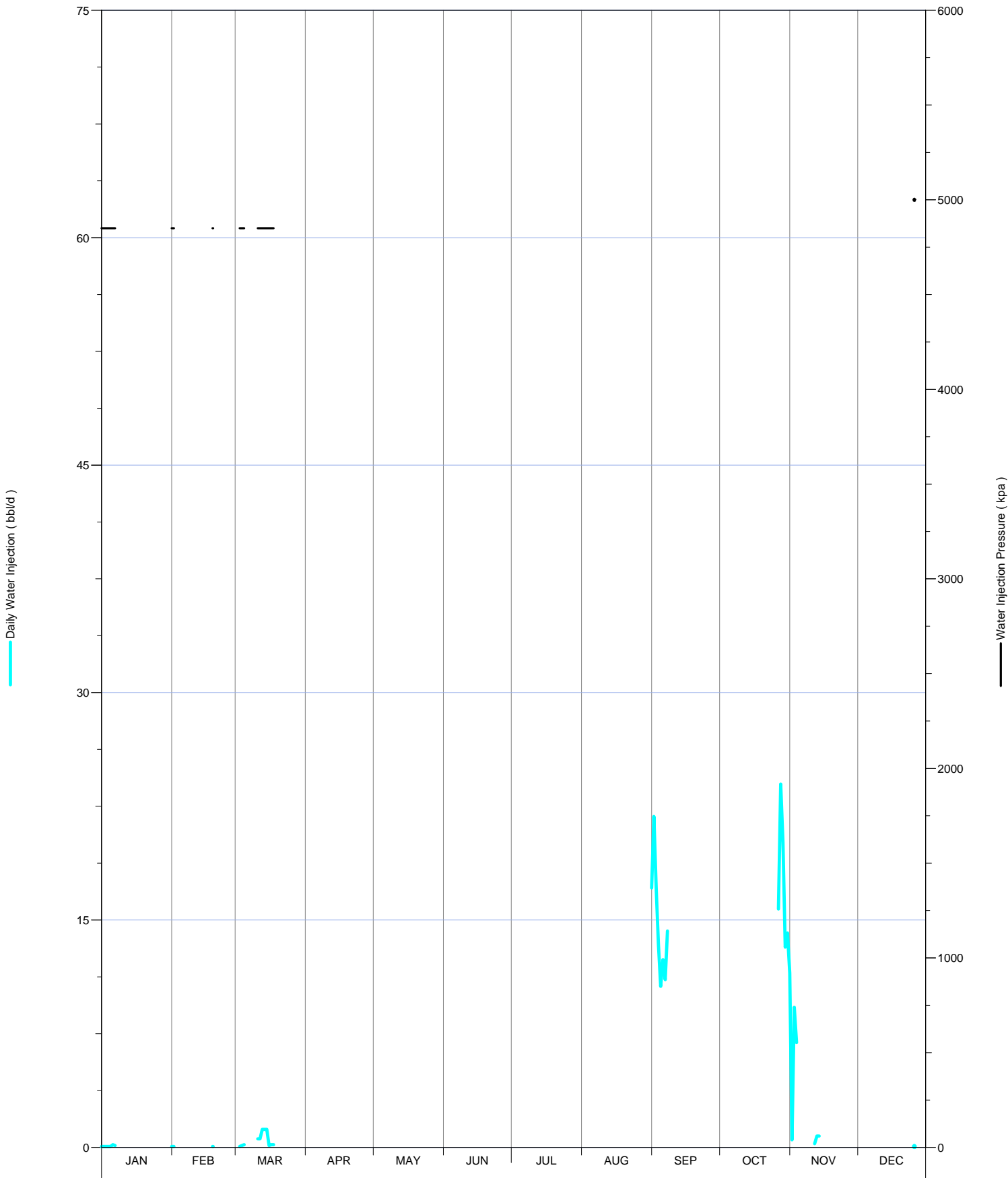


Daily Injection Rate and Pressure for: 00/12-04-002-29W1/0

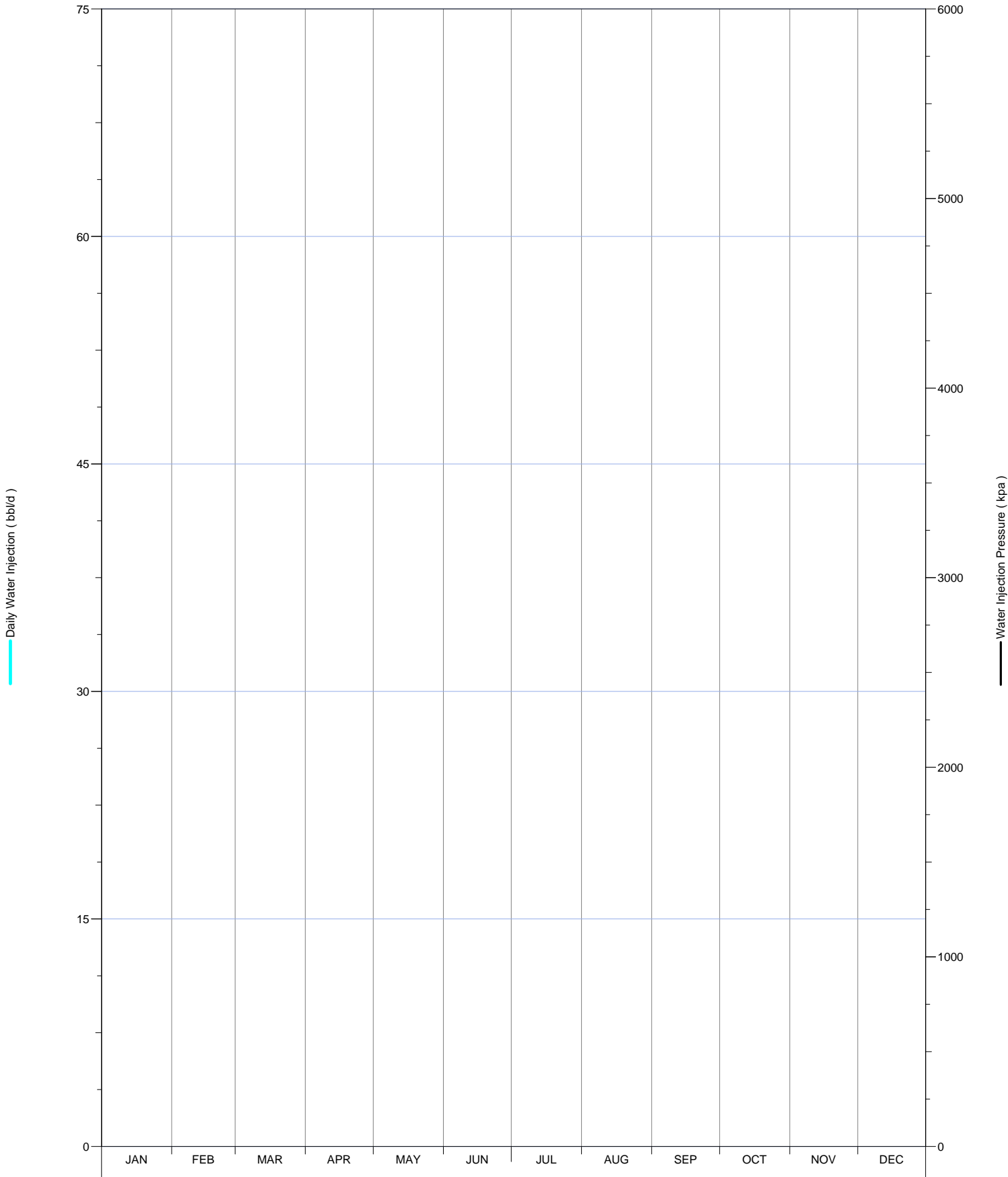




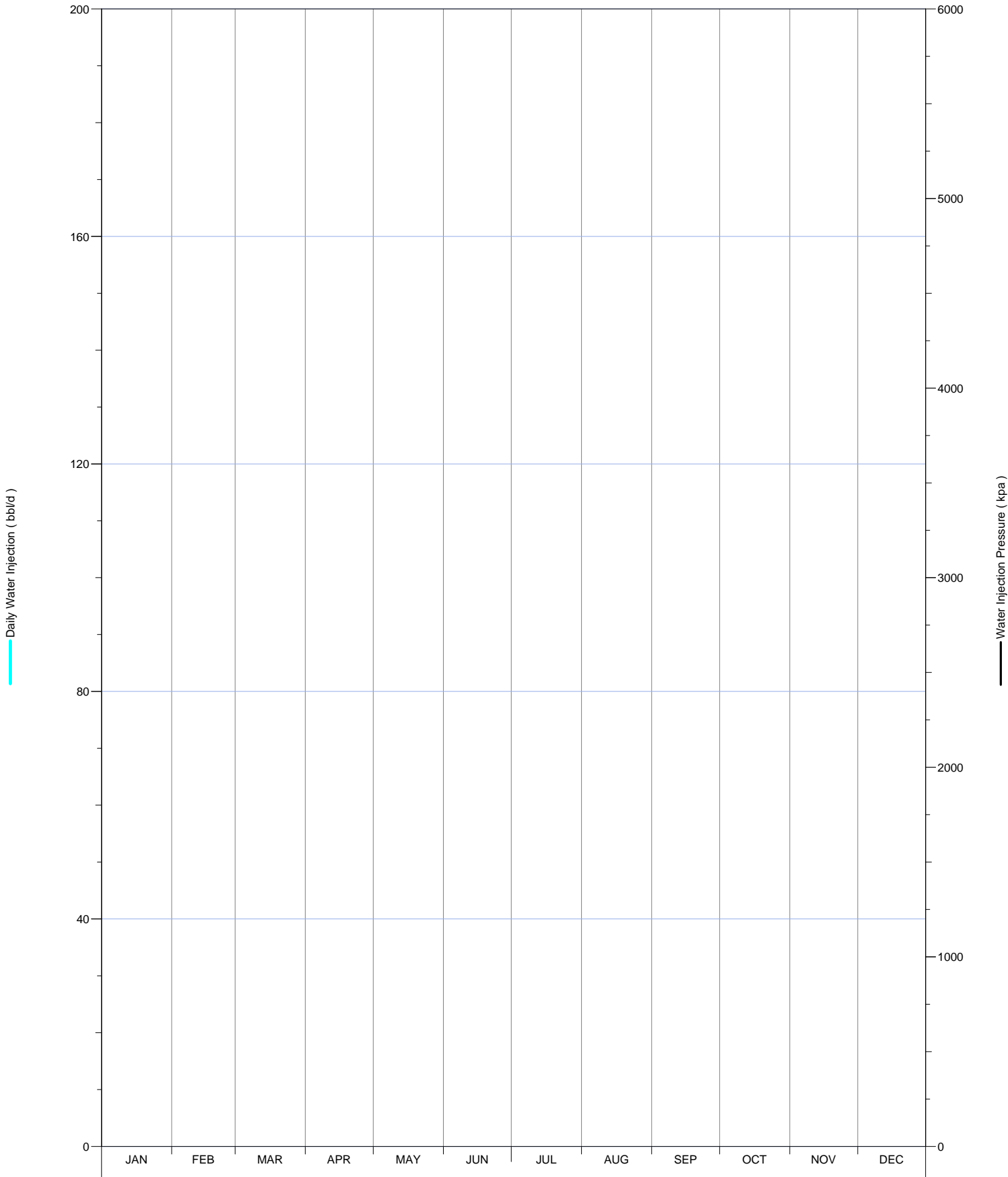
Daily Injection Rate and Pressure for: 00/12-08-002-29W1/0



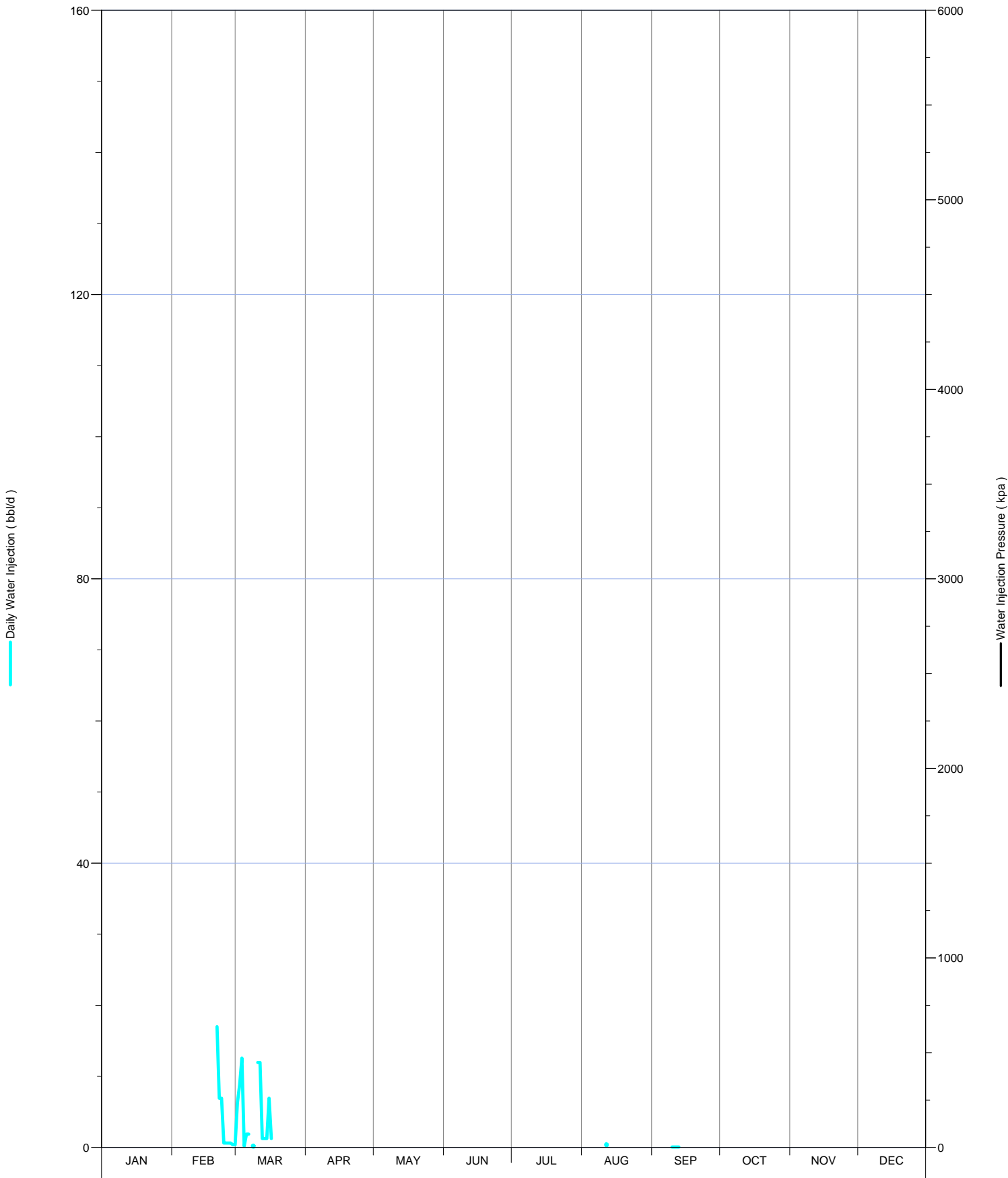
Daily Injection Rate and Pressure for: 00/12-09-002-29W1/0



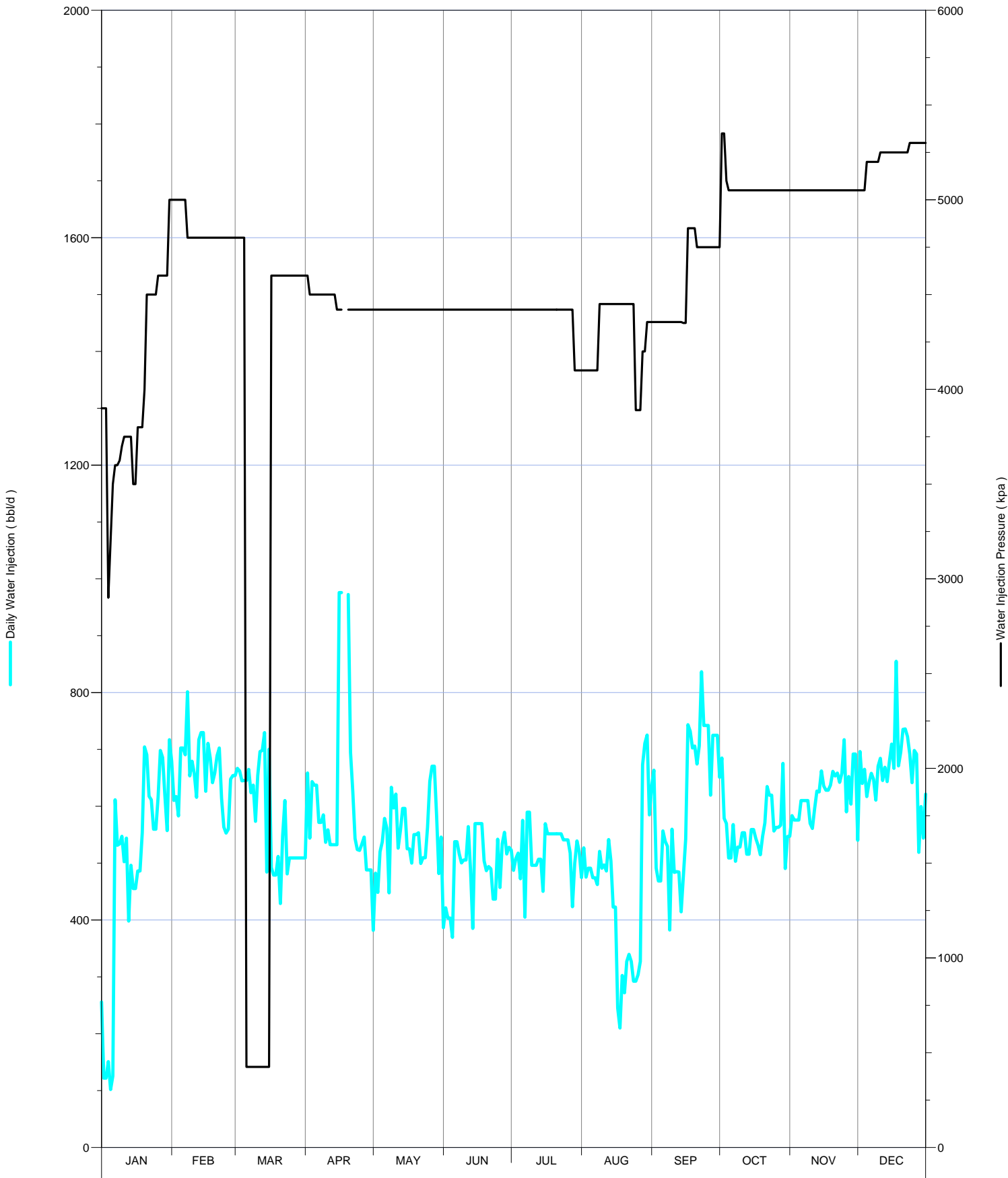
Daily Injection Rate and Pressure for: 00/12-16-002-29W1/0



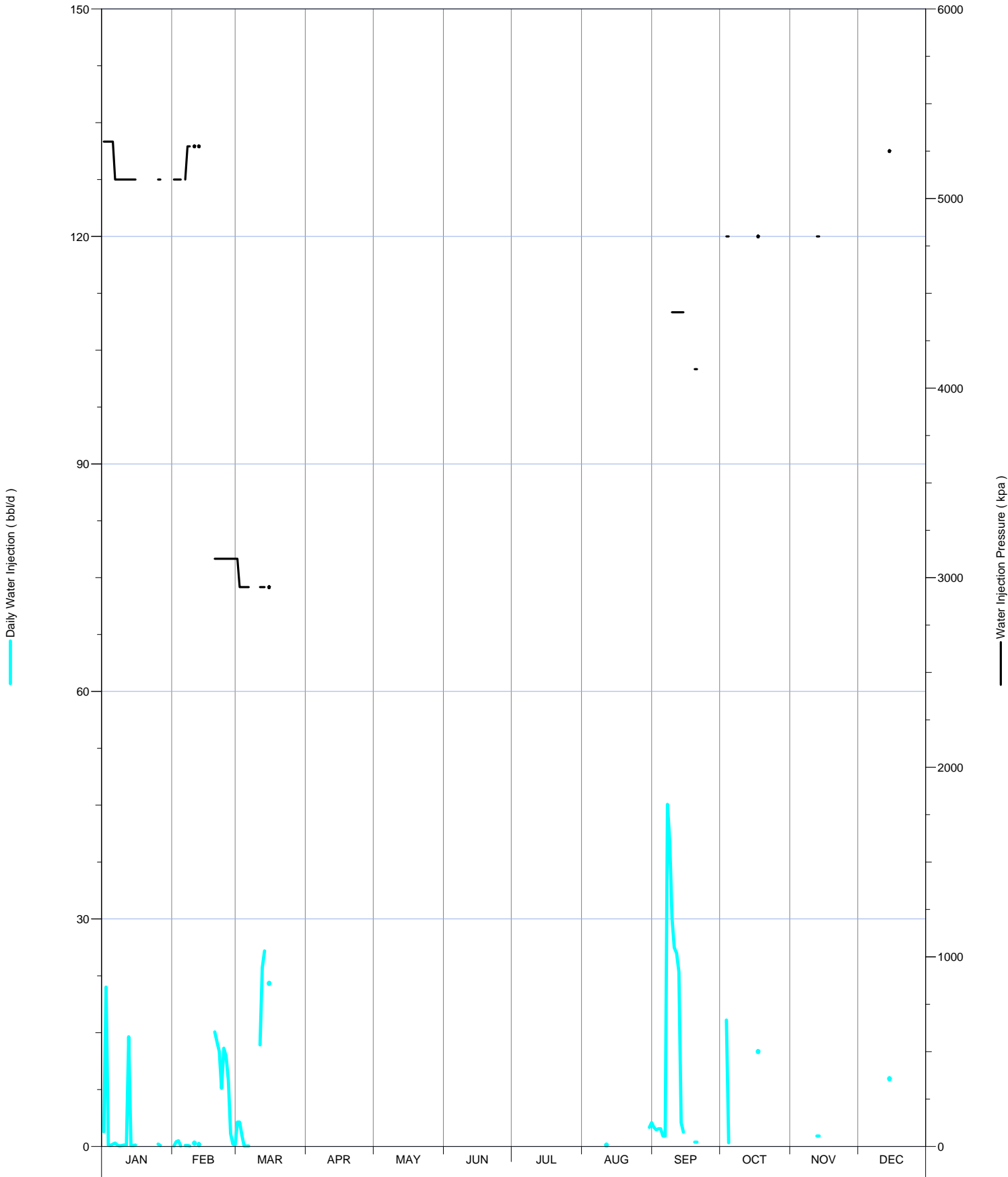
Daily Injection Rate and Pressure for: 00/12-17-002-29W1/0



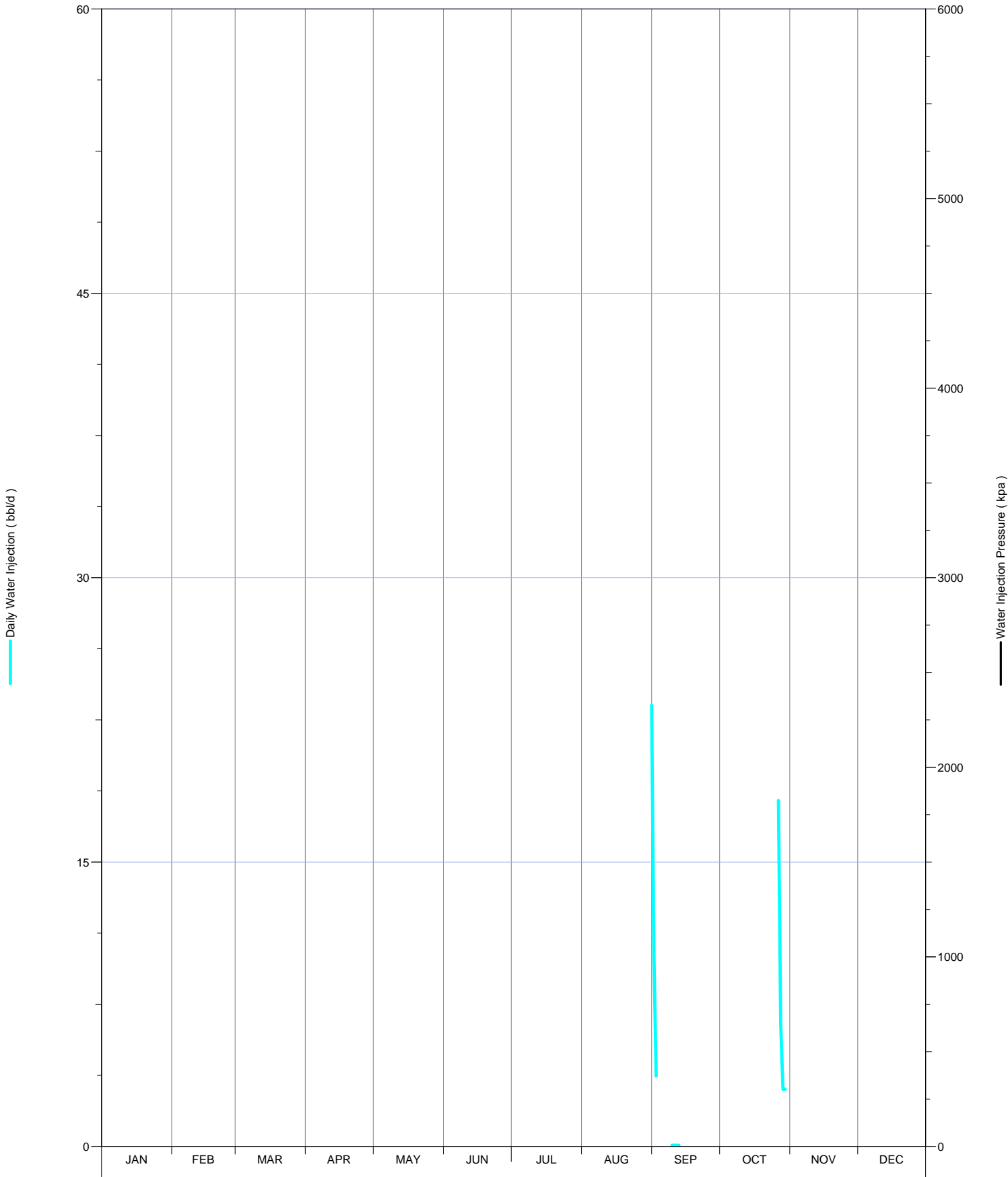
Daily Injection Rate and Pressure for: 00/13-09-002-29W1/0



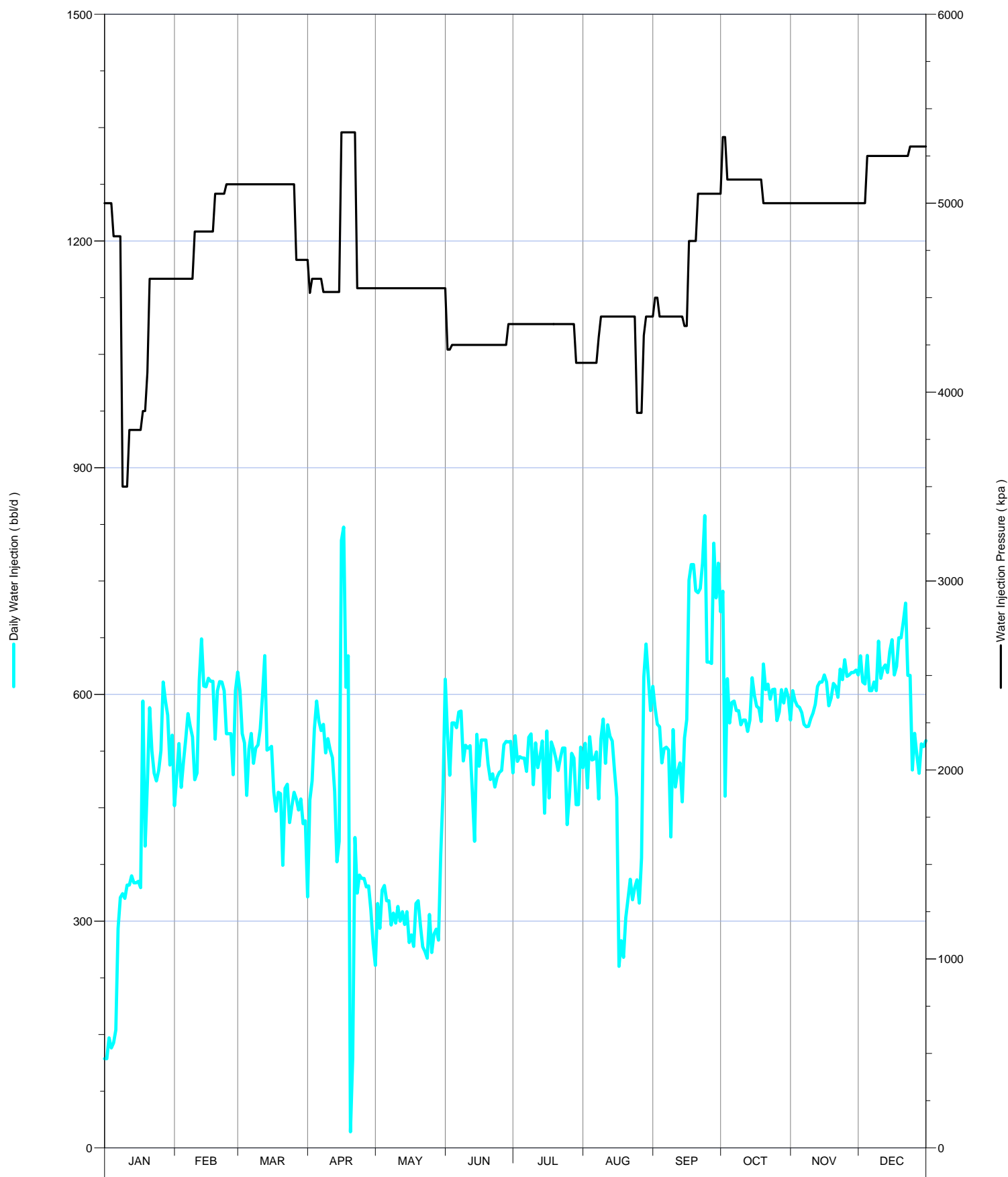
Daily Injection Rate and Pressure for: 00/14-04-002-29W1/0



Daily Injection Rate and Pressure for: 00/14-08-002-29W1/0

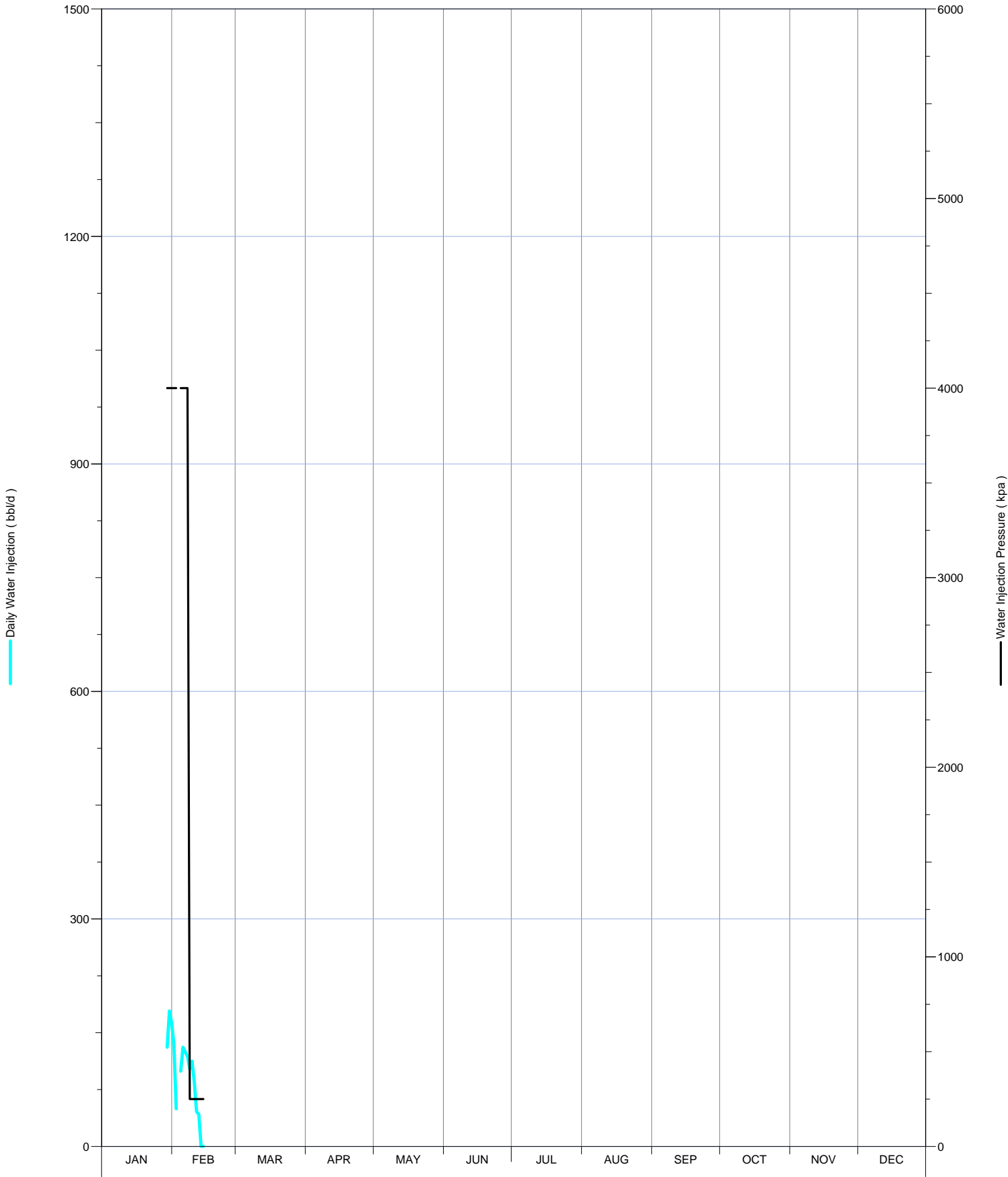


Daily Injection Rate and Pressure for: 00/14-09-002-29W1/0

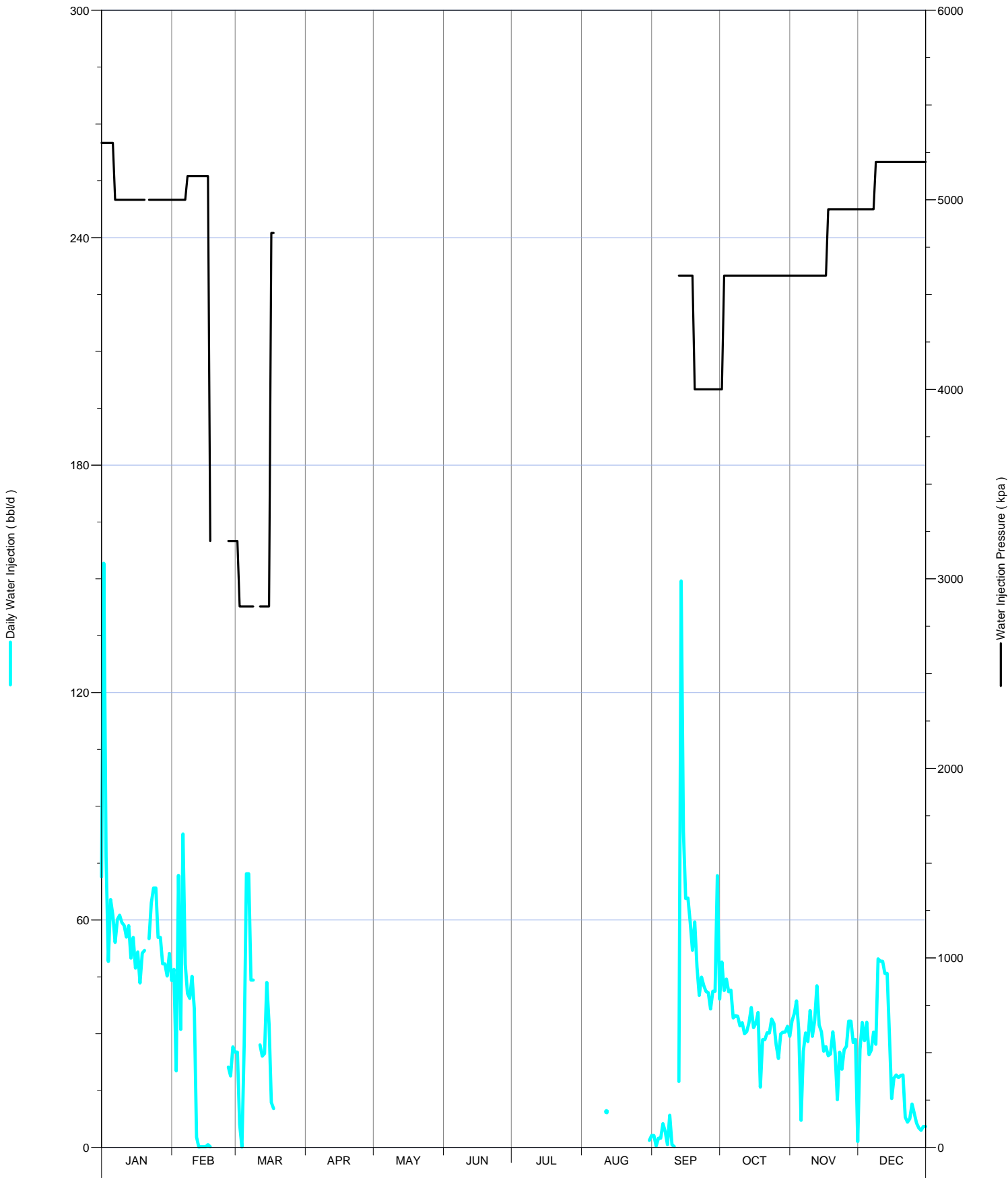




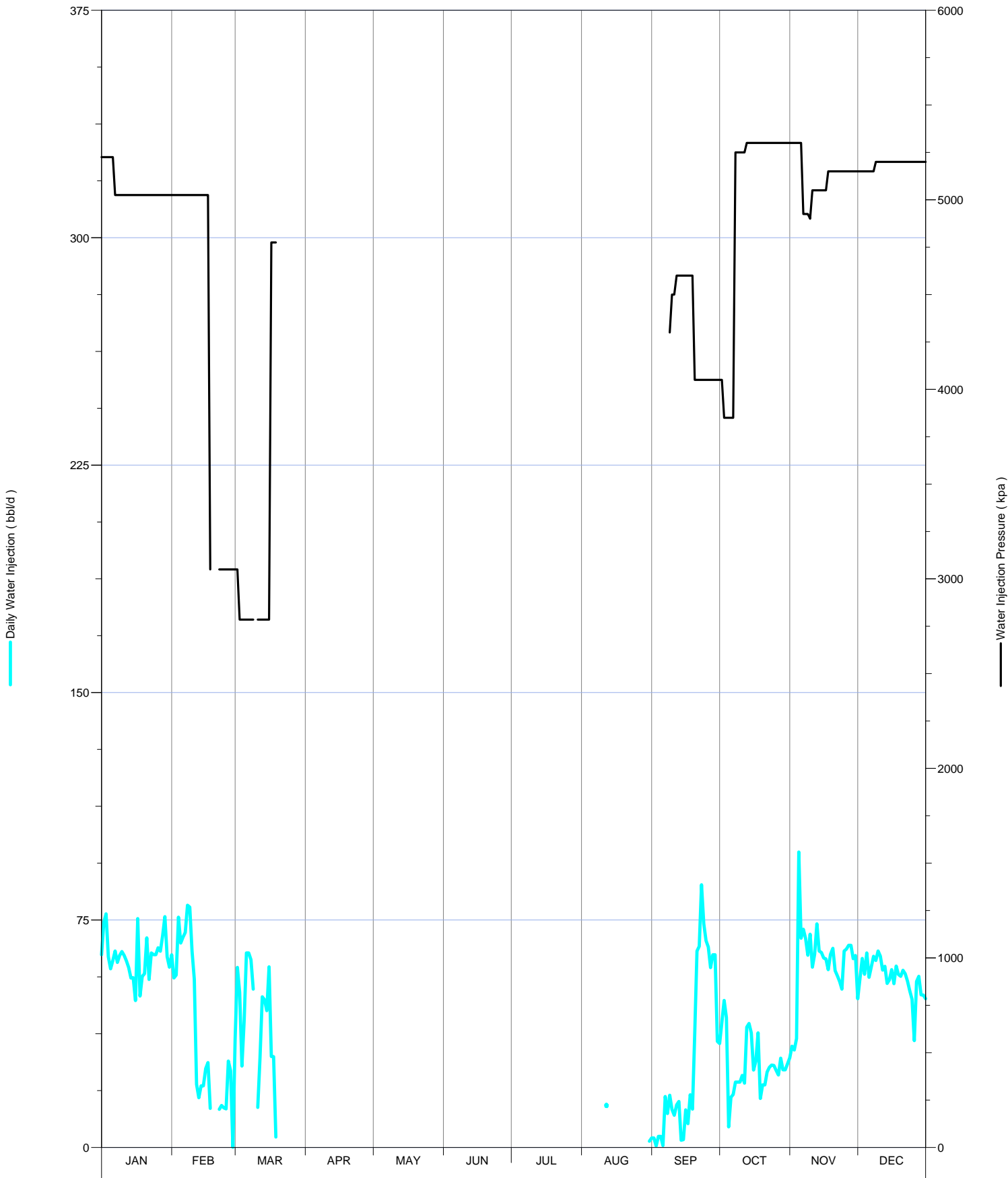
Daily Injection Rate and Pressure for: 00/14-17-002-29W1/0



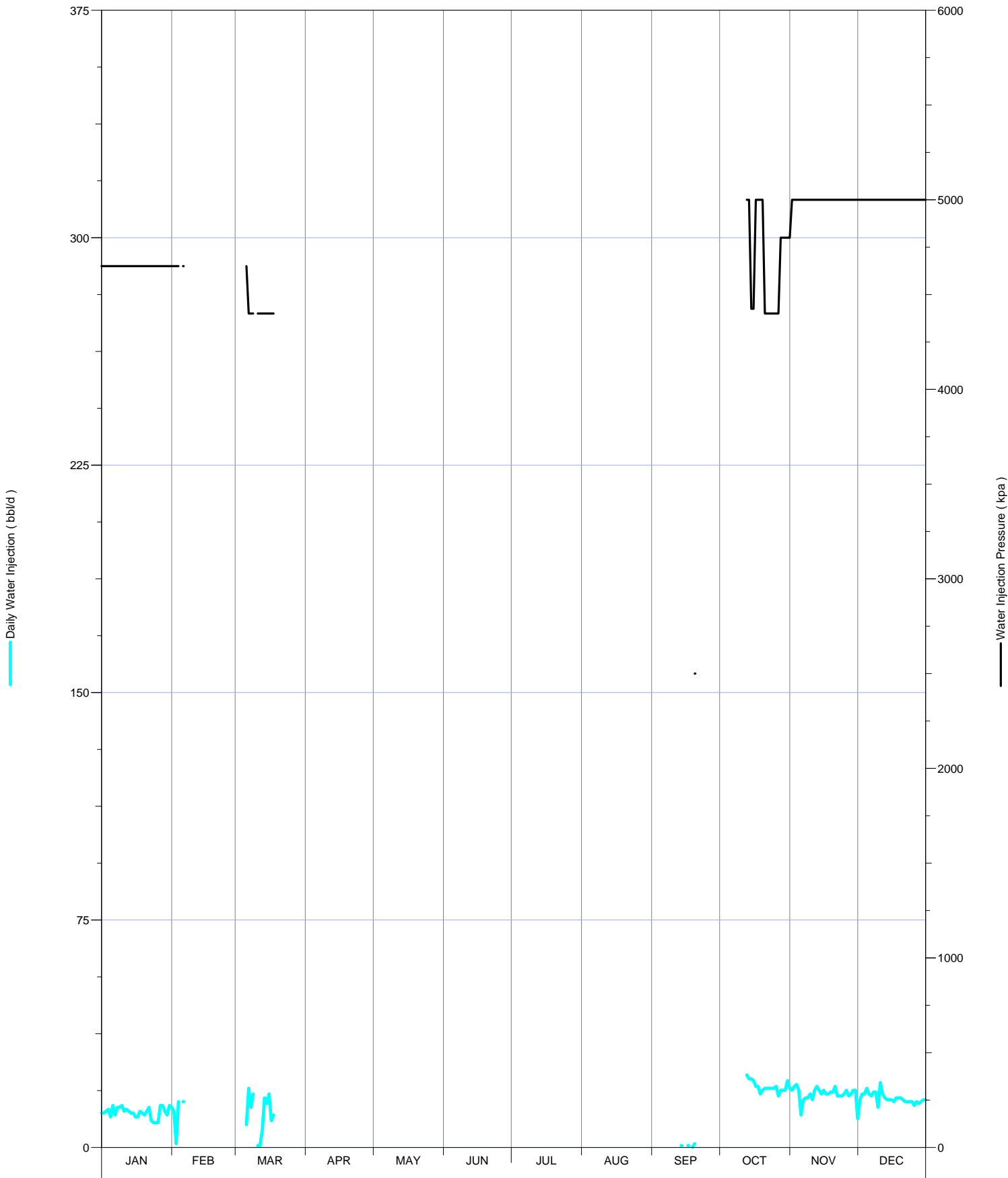
Daily Injection Rate and Pressure for: 00/16-04-002-29W1/0



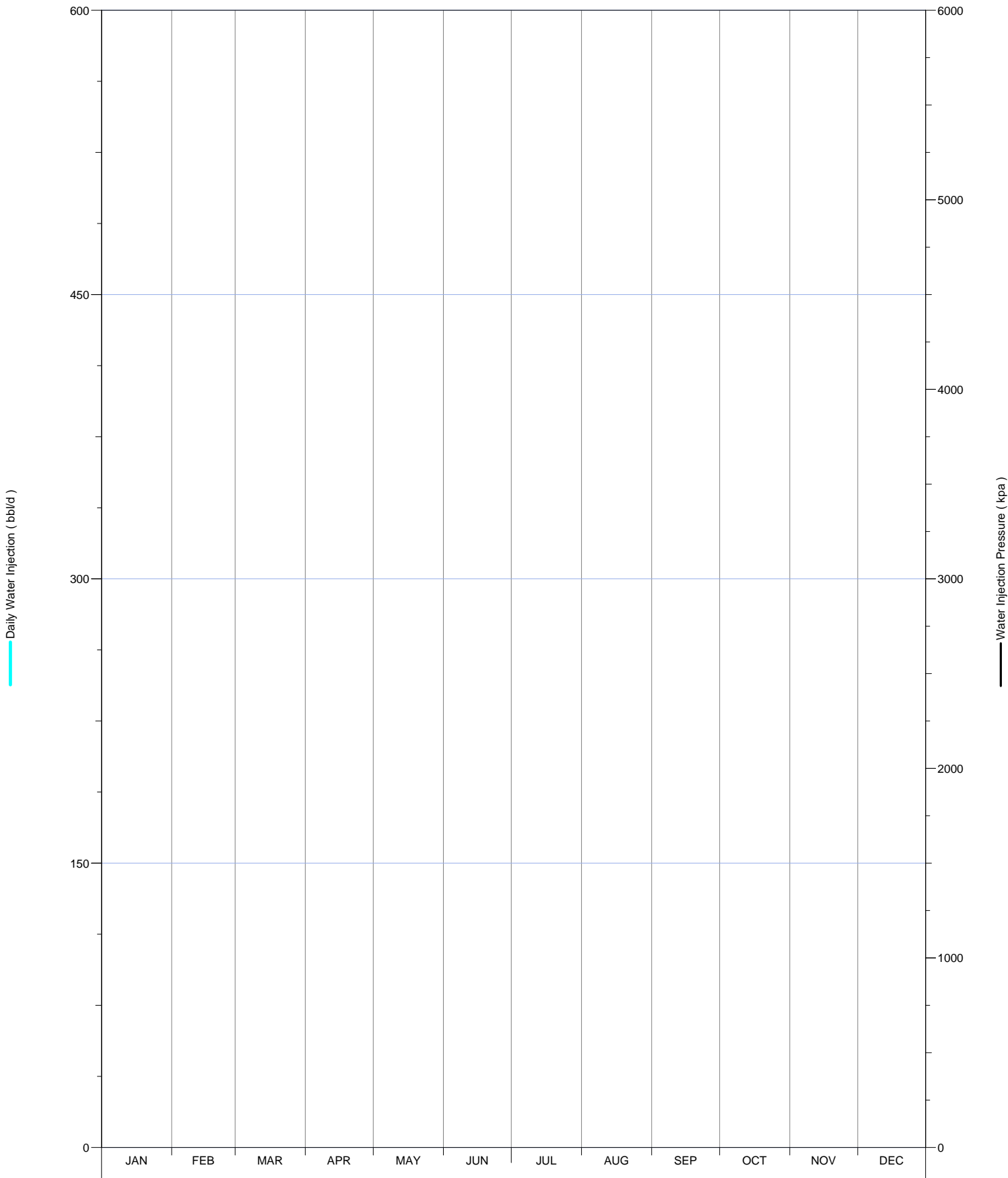
Daily Injection Rate and Pressure for: 00/16-05-002-29W1/0



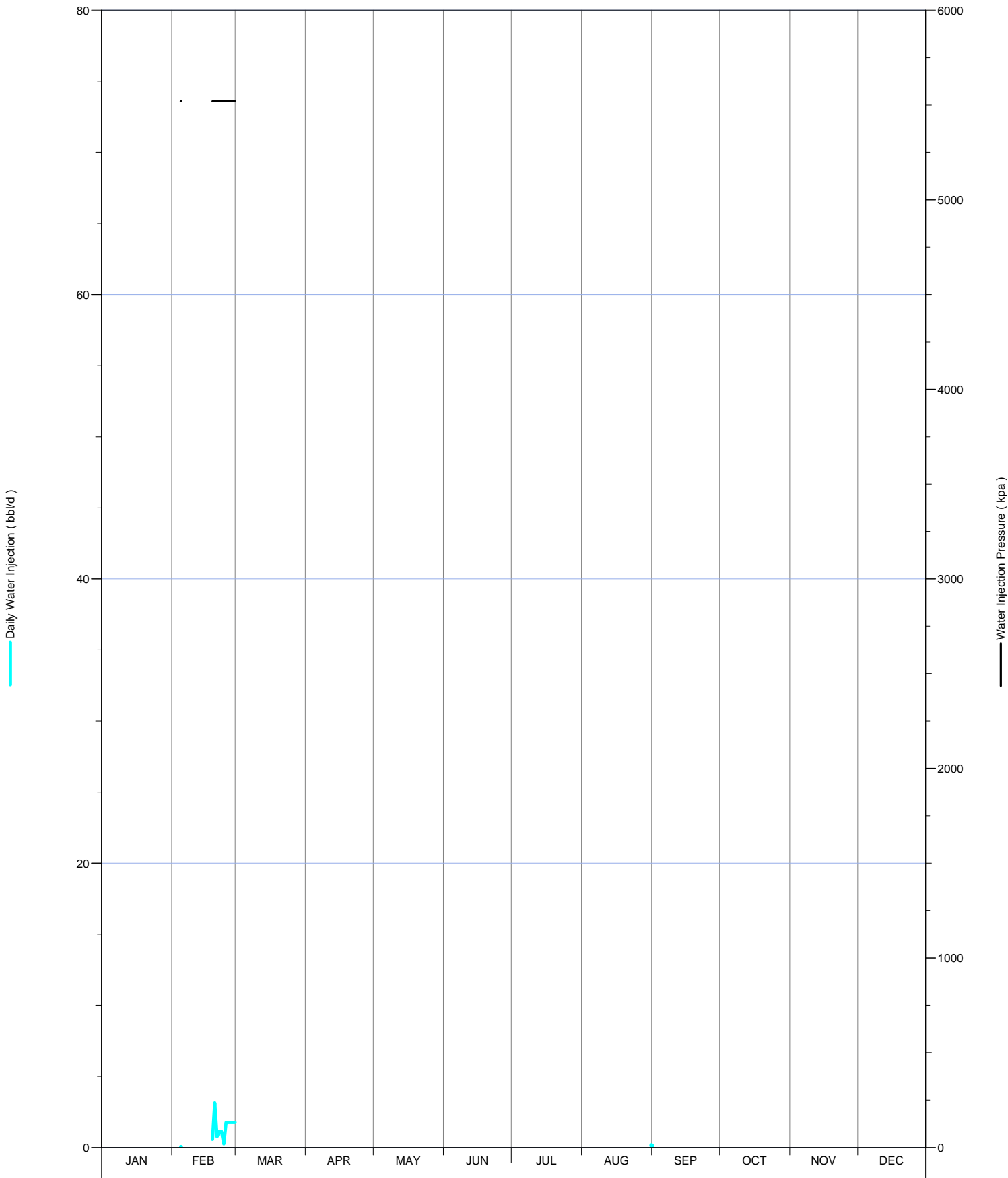
Daily Injection Rate and Pressure for: 00/16-08-002-29W1/0



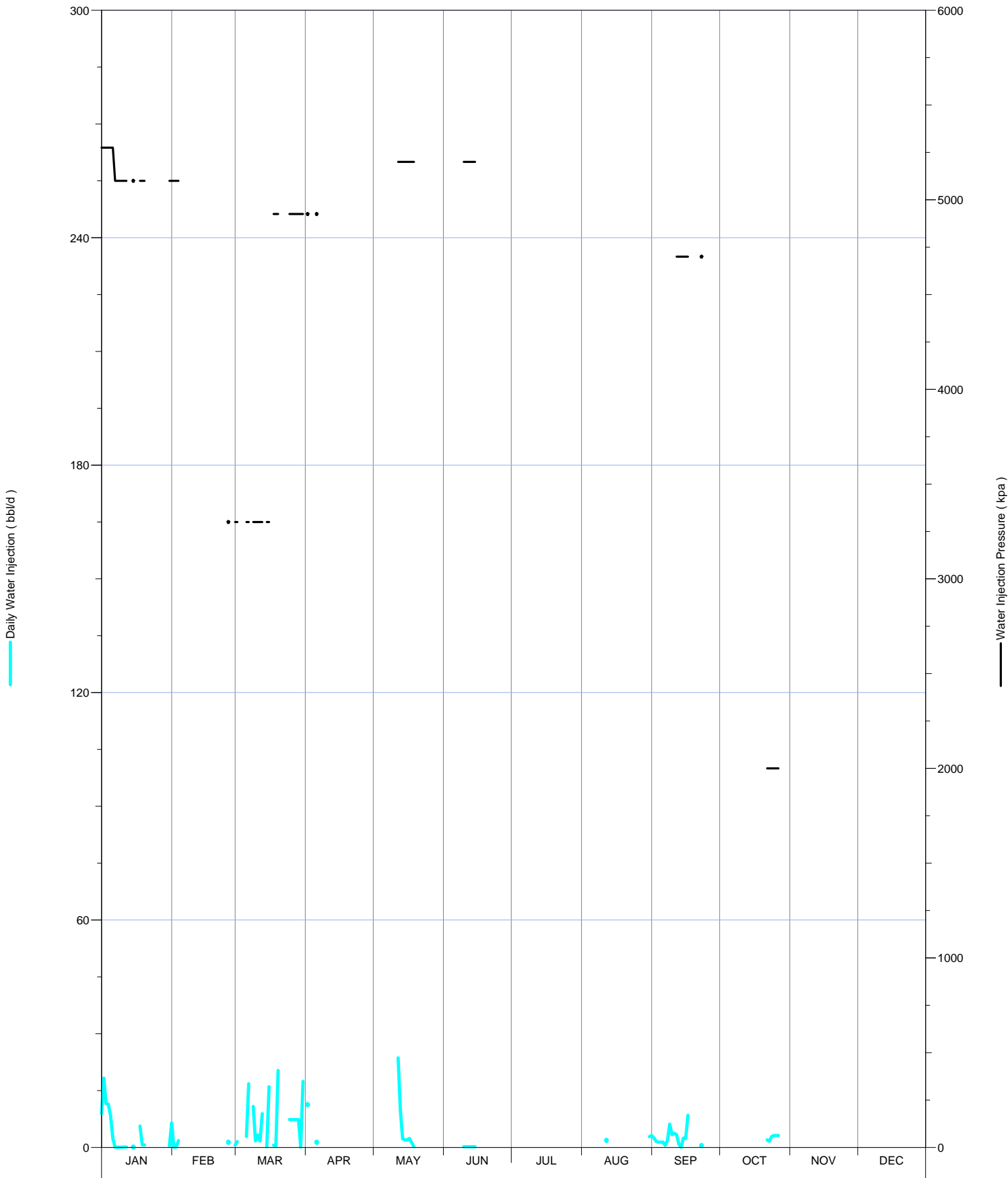
Daily Injection Rate and Pressure for: 00/16-09-002-29W1/0



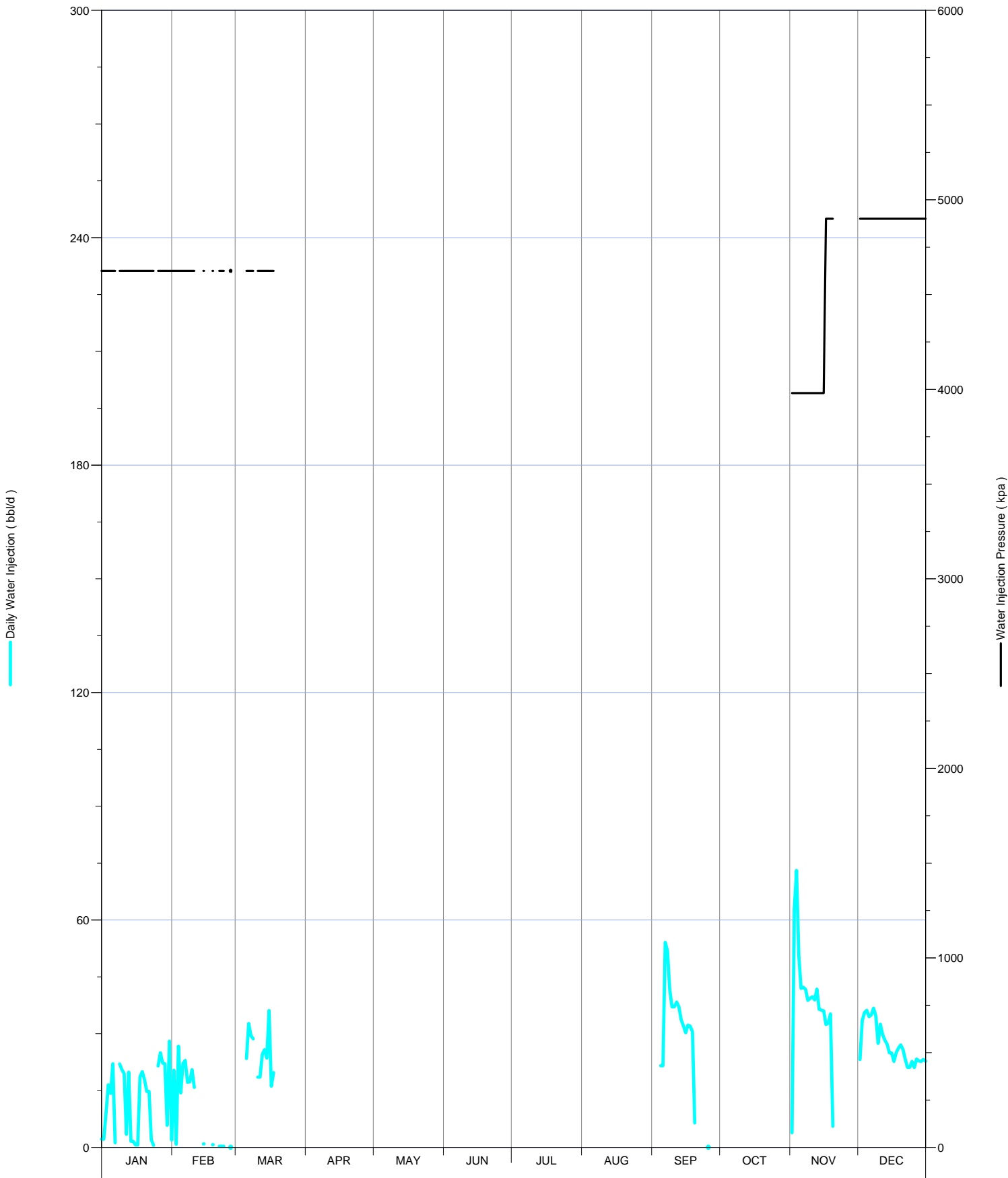
Daily Injection Rate and Pressure for: 00/16-18-002-29W1/0



Daily Injection Rate and Pressure for: 02/08-09-002-29W1/0

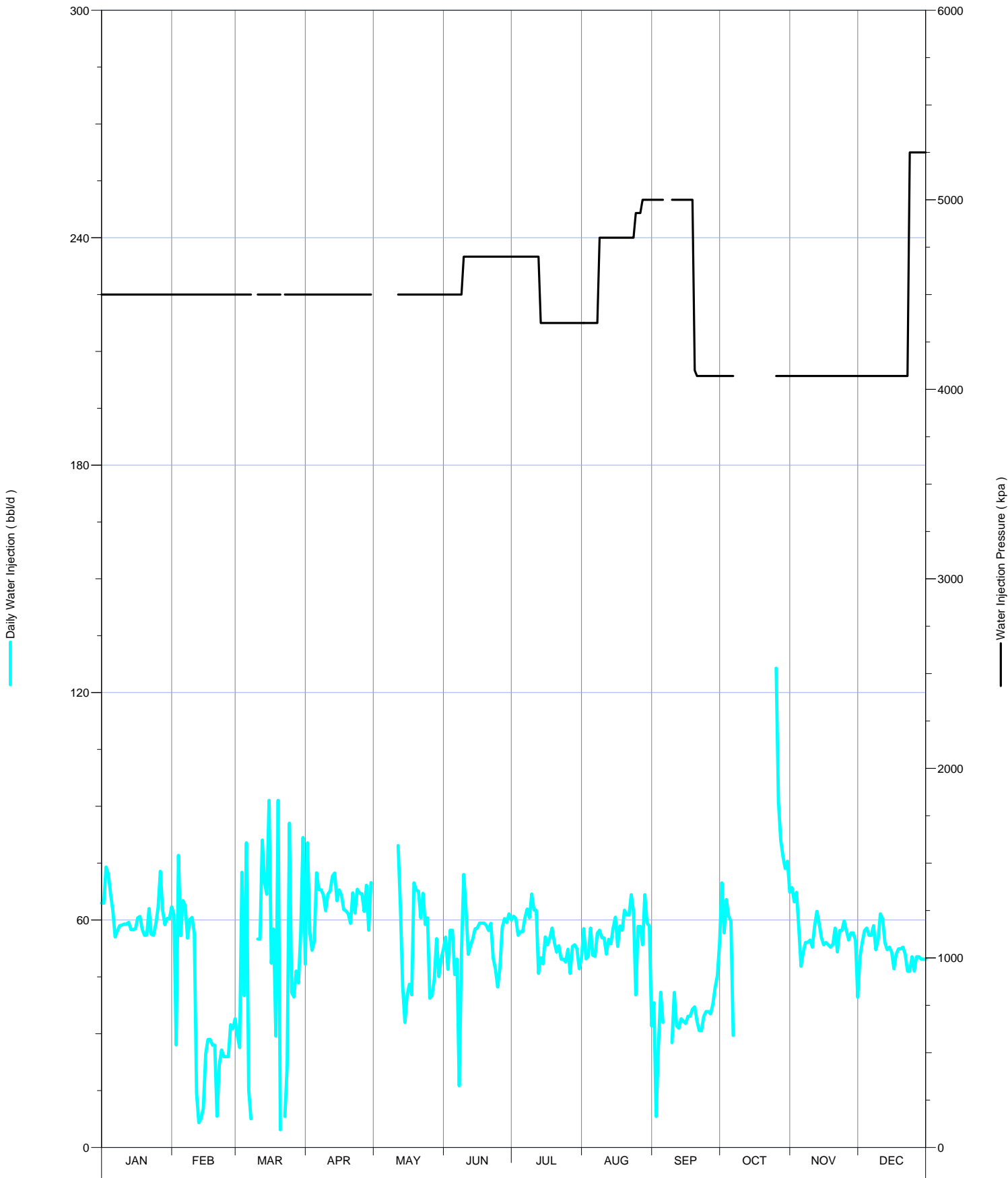


Daily Injection Rate and Pressure for: 02/10-16-002-29W1/0

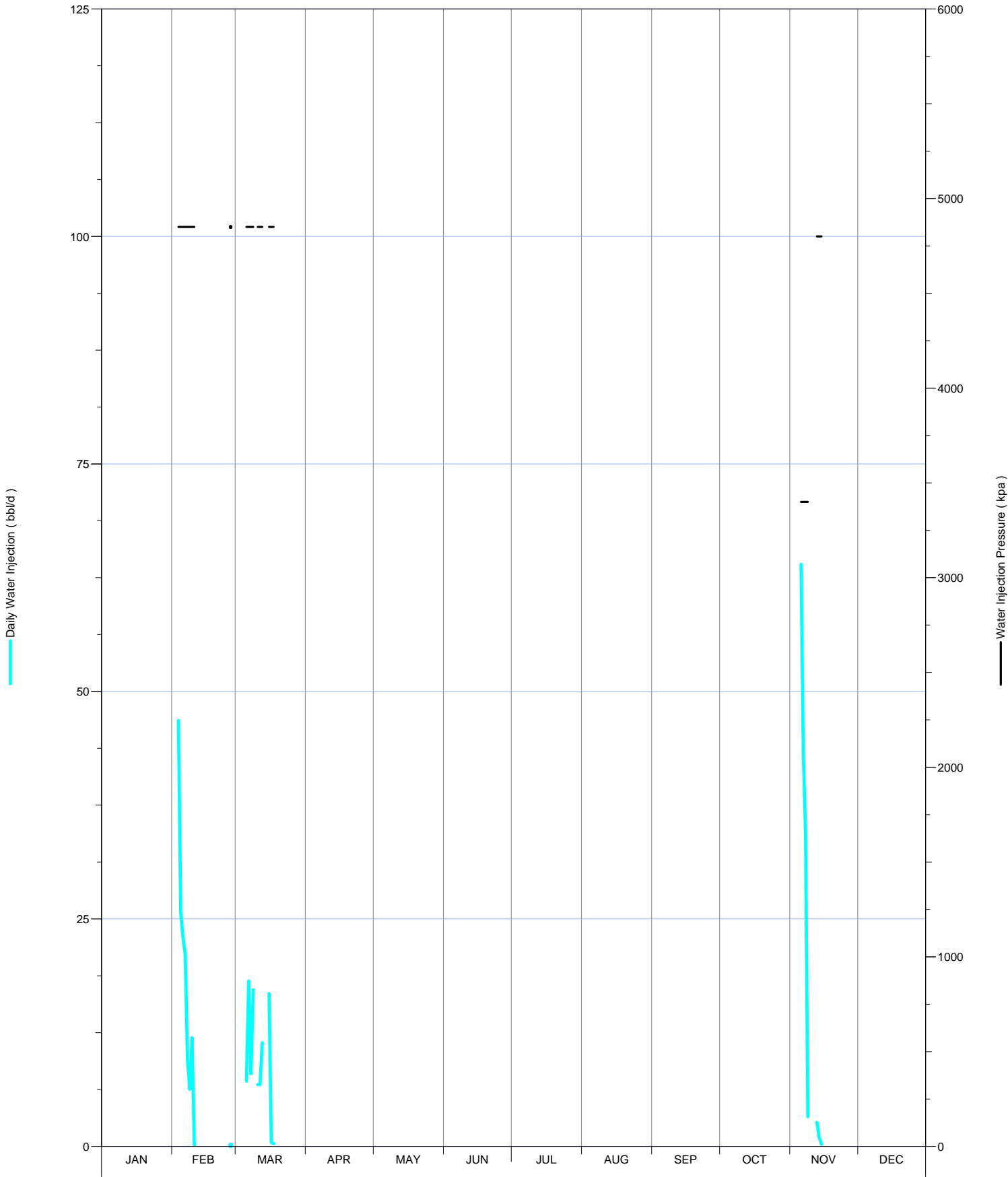




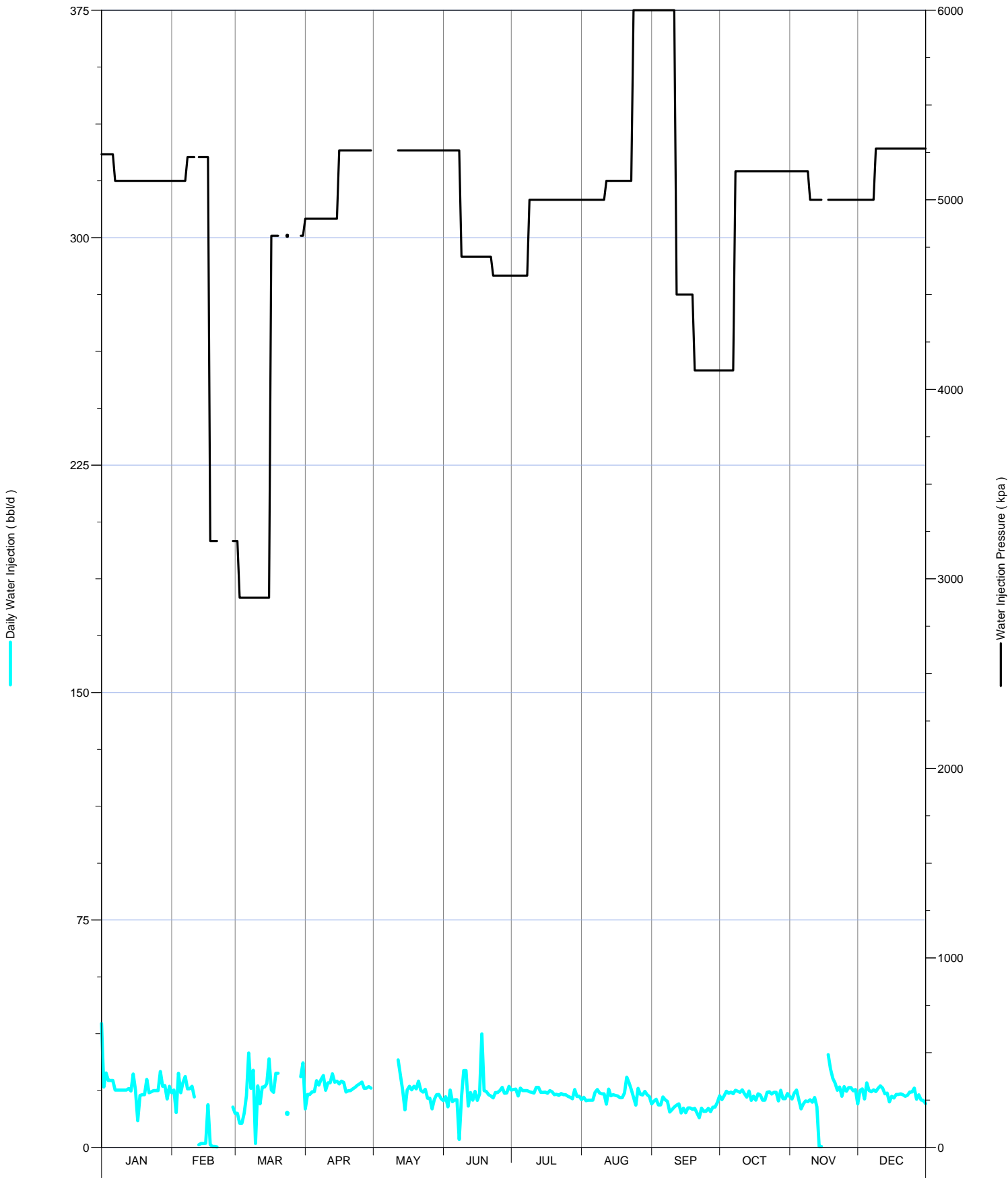
Daily Injection Rate and Pressure for: 02/12-09-002-29W1/0



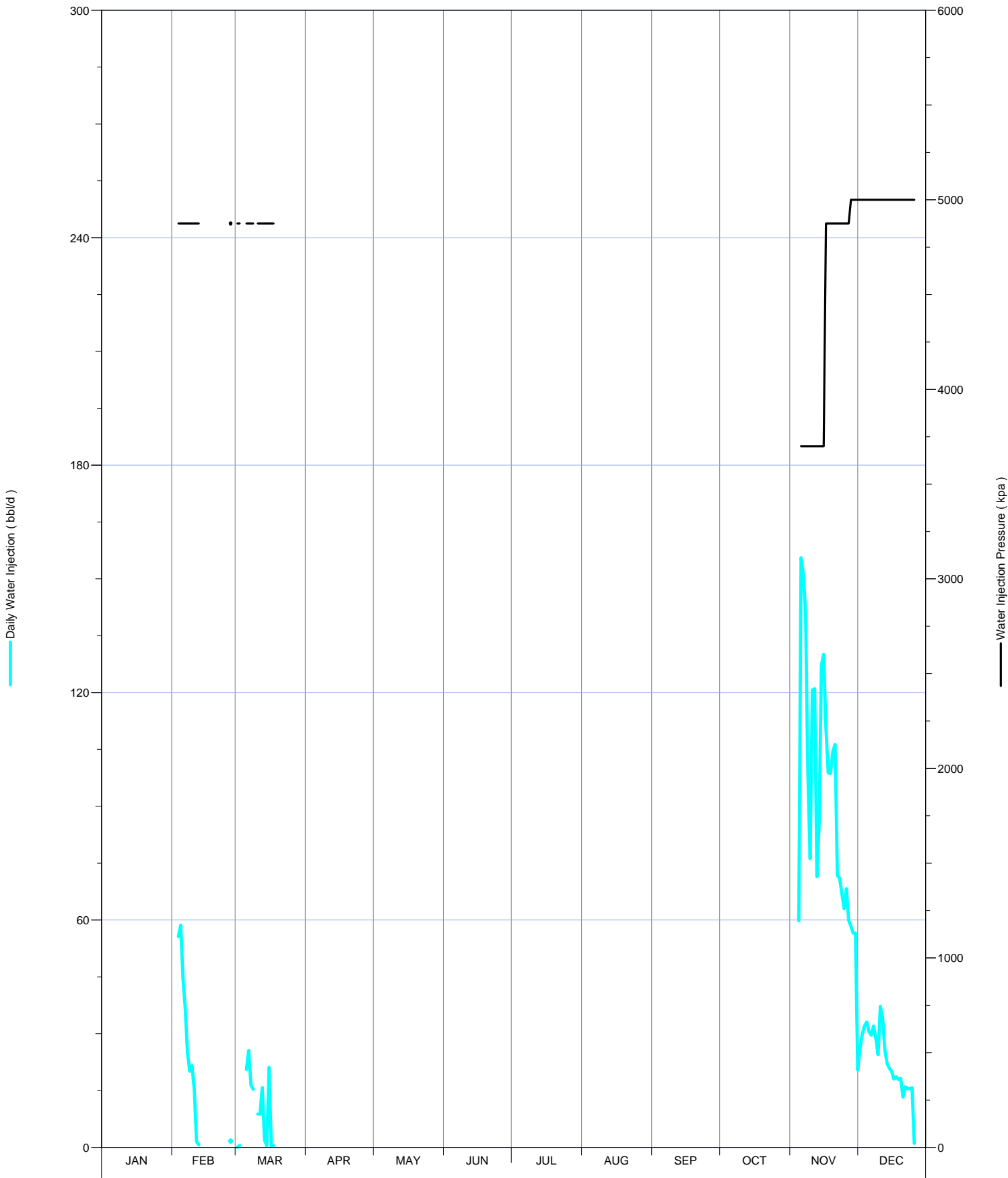
Daily Injection Rate and Pressure for: 02/12-16-002-29W1/0



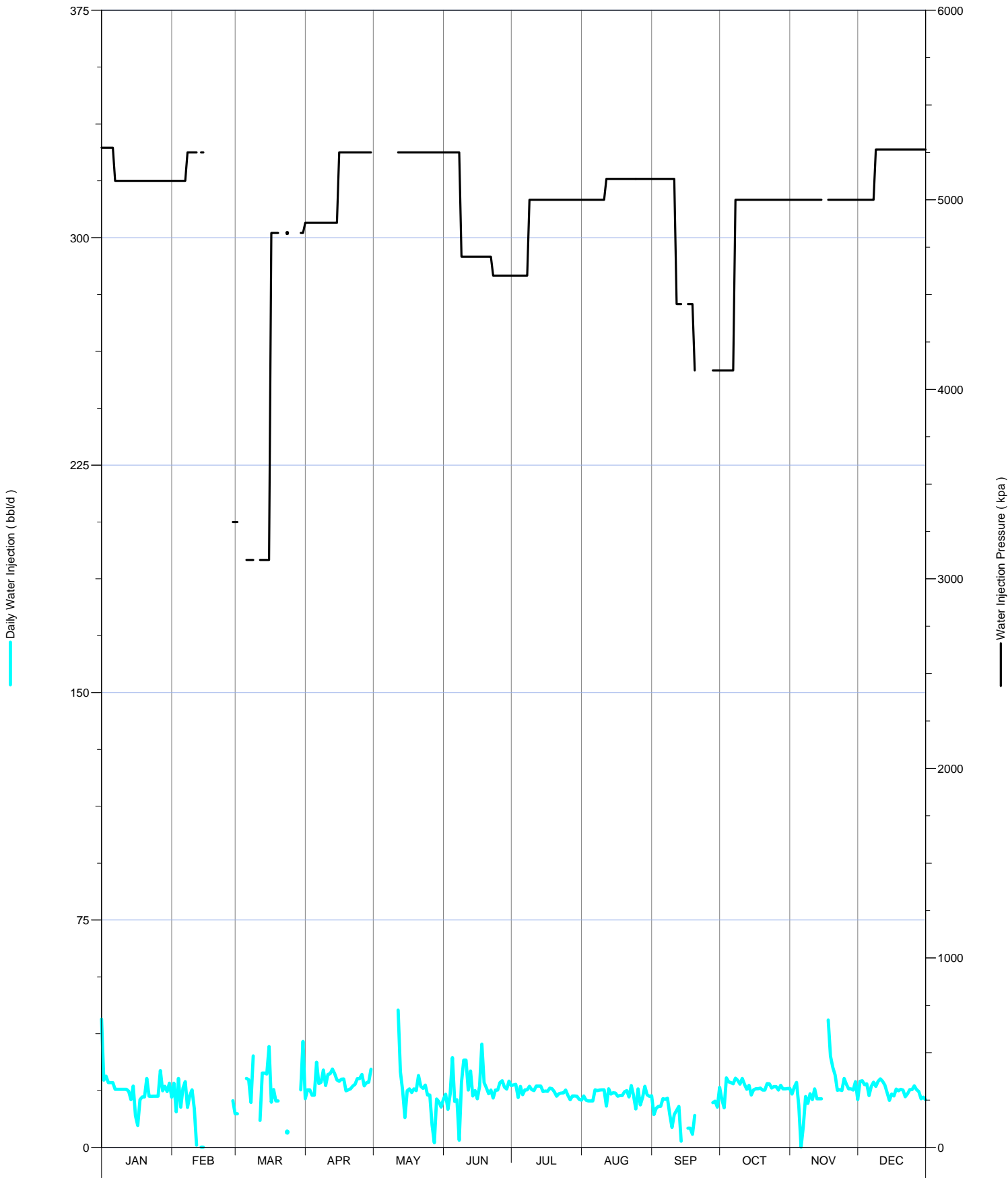
Daily Injection Rate and Pressure for: 02/16-09-002-29W1/0



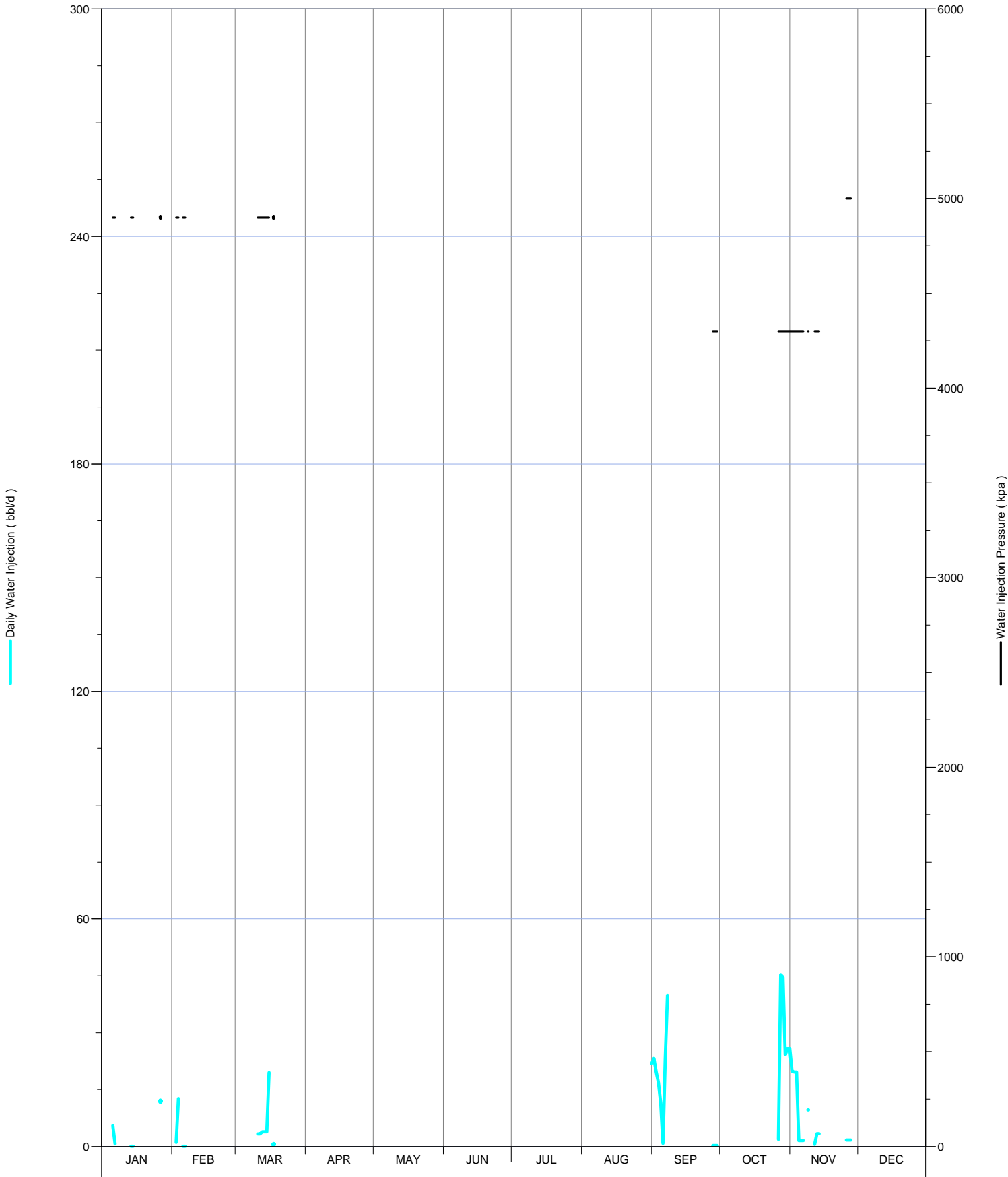
Daily Injection Rate and Pressure for: 03/15-16-002-29W1/0



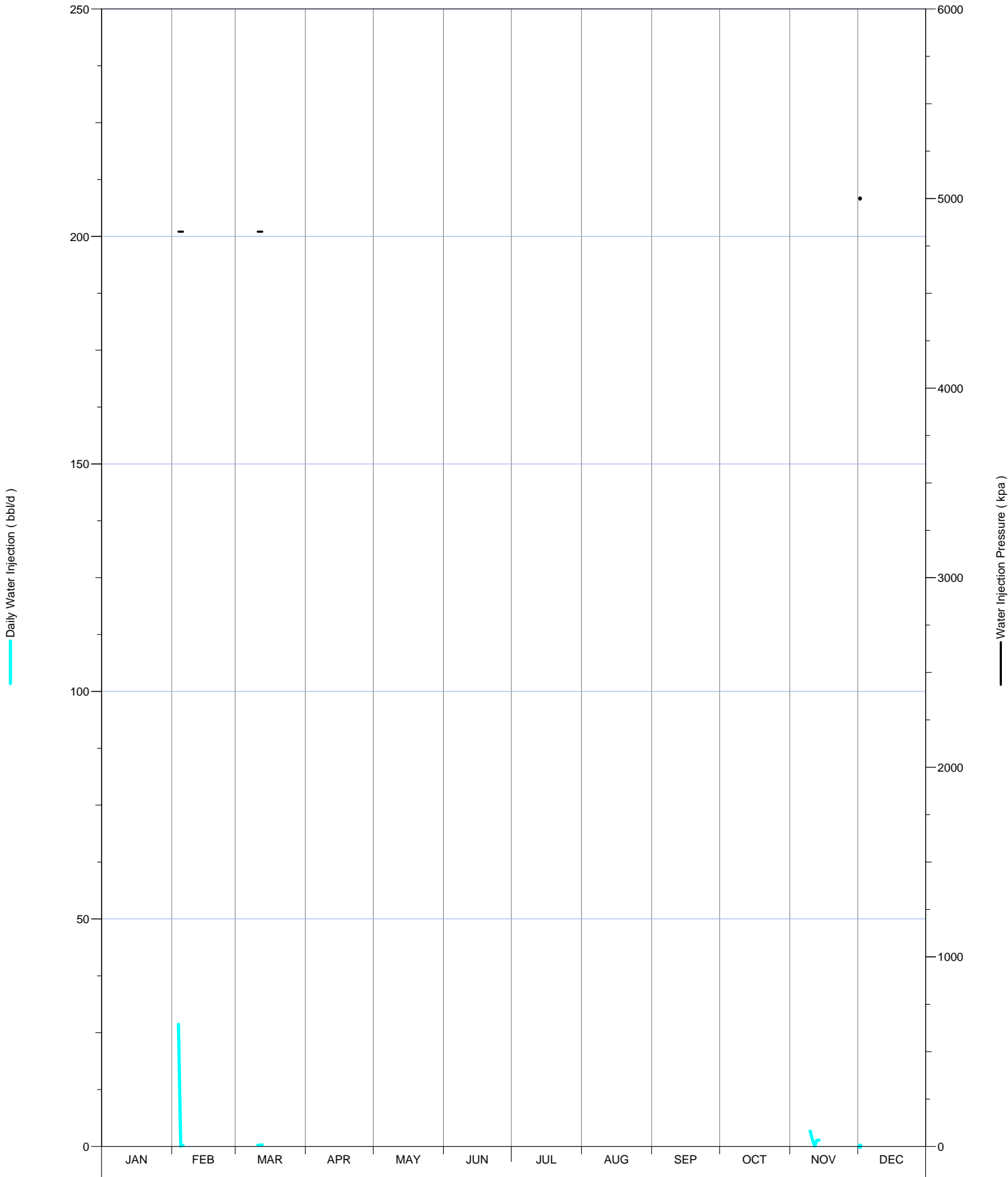
Daily Injection Rate and Pressure for: 03/16-09-002-29W1/0



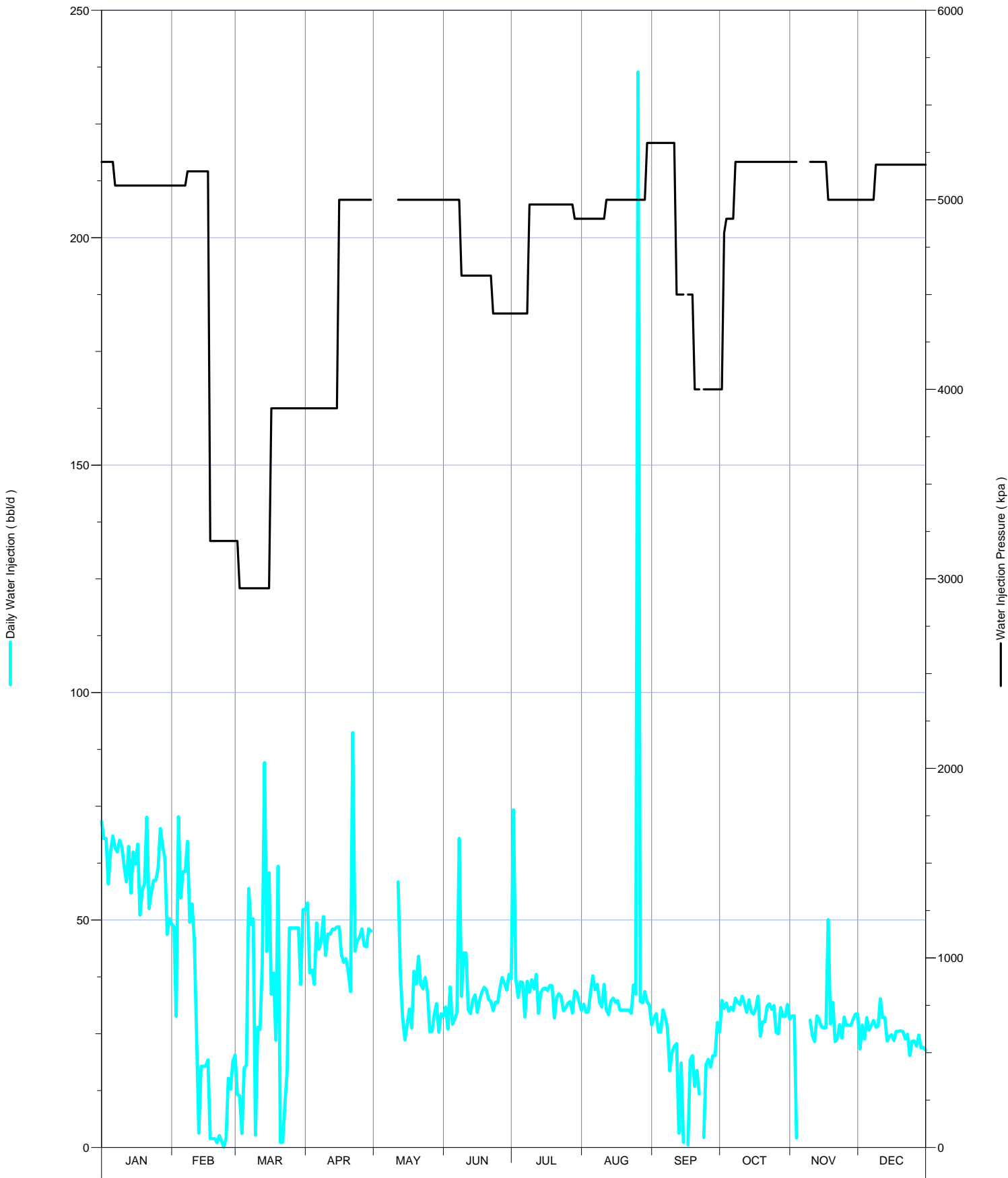
Daily Injection Rate and Pressure for: B0/02-17-002-29W1/0



Daily Injection Rate and Pressure for: B0/04-16-002-29W1/0

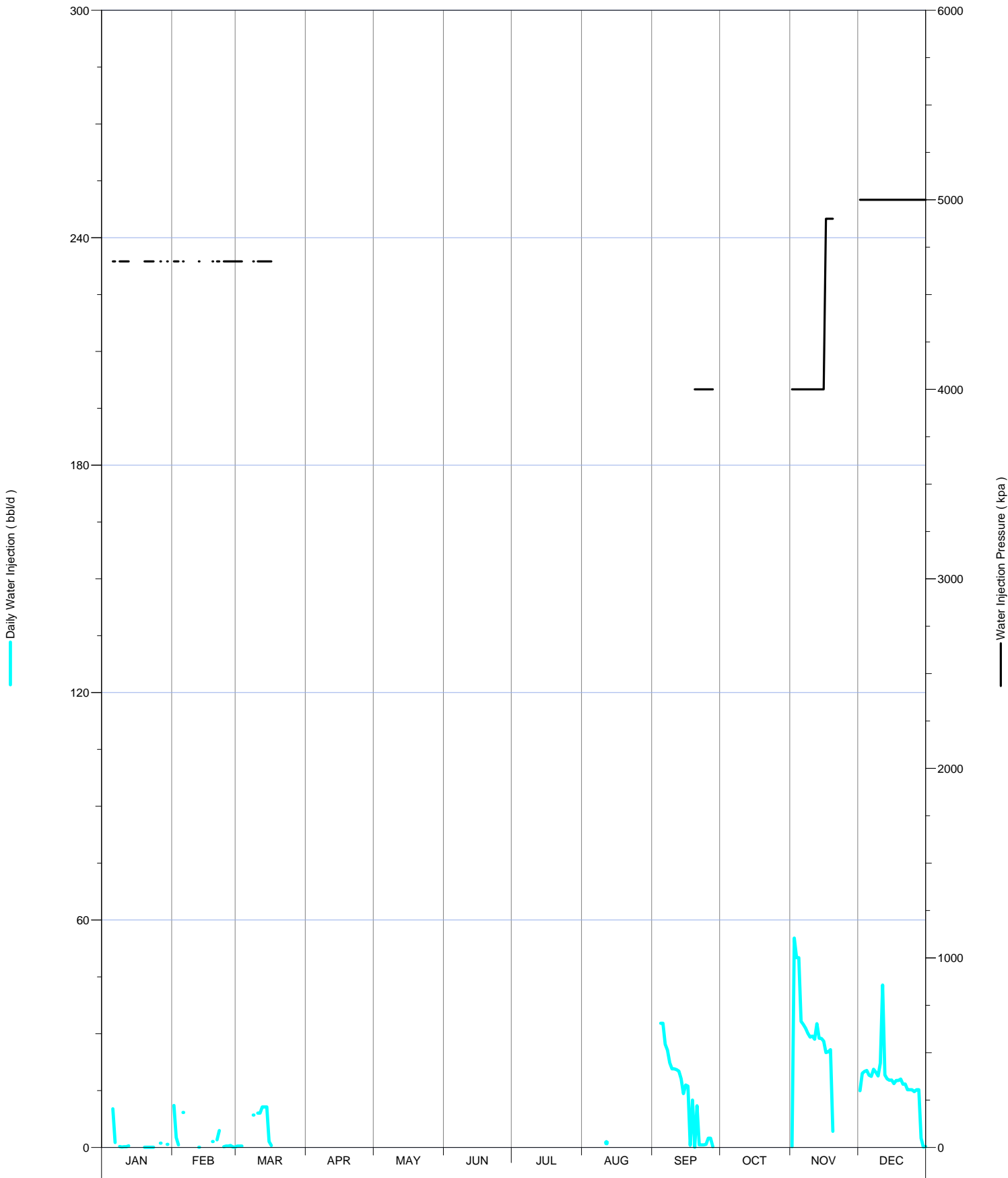


Daily Injection Rate and Pressure for: B0/06-09-002-29W1/0

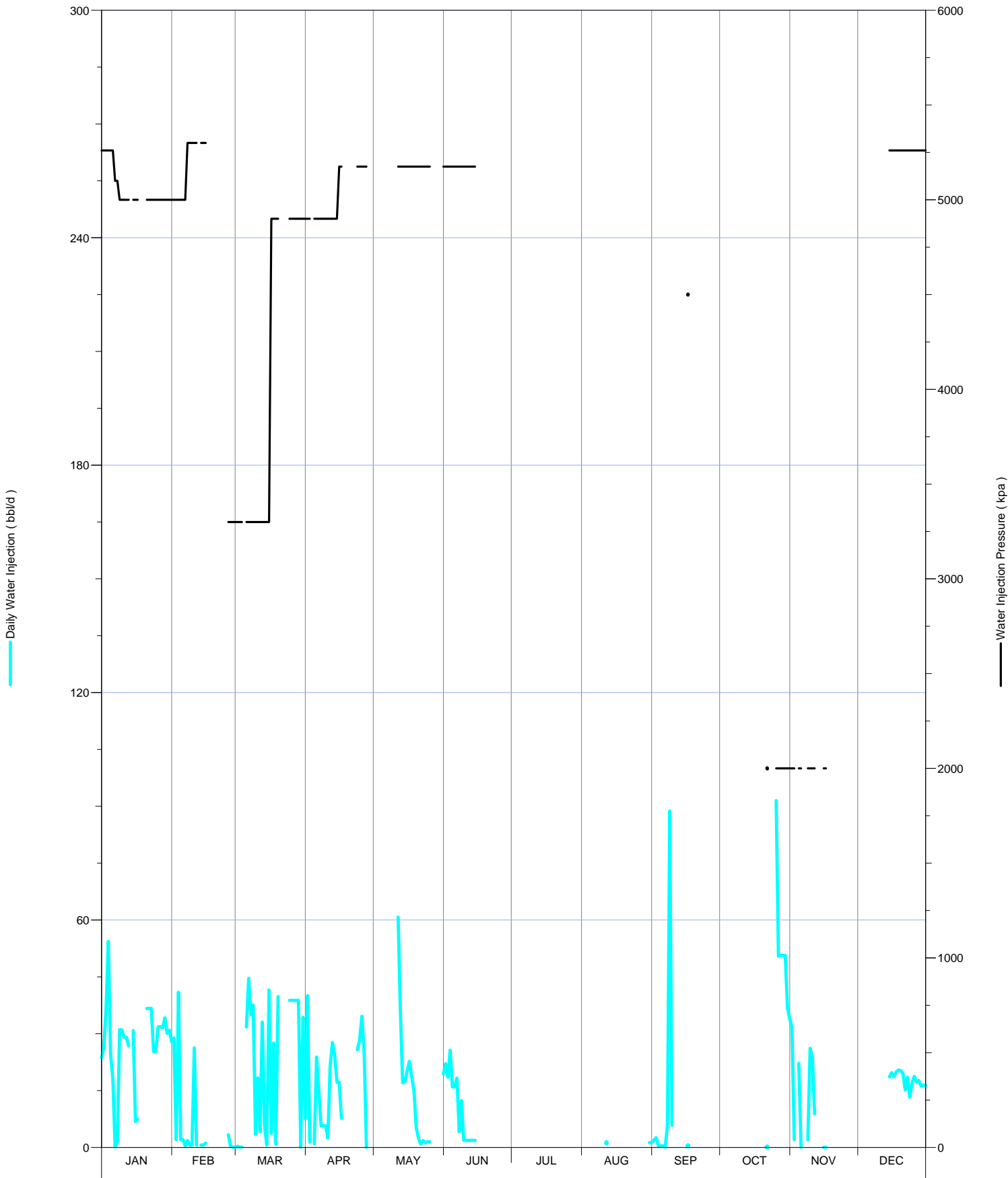




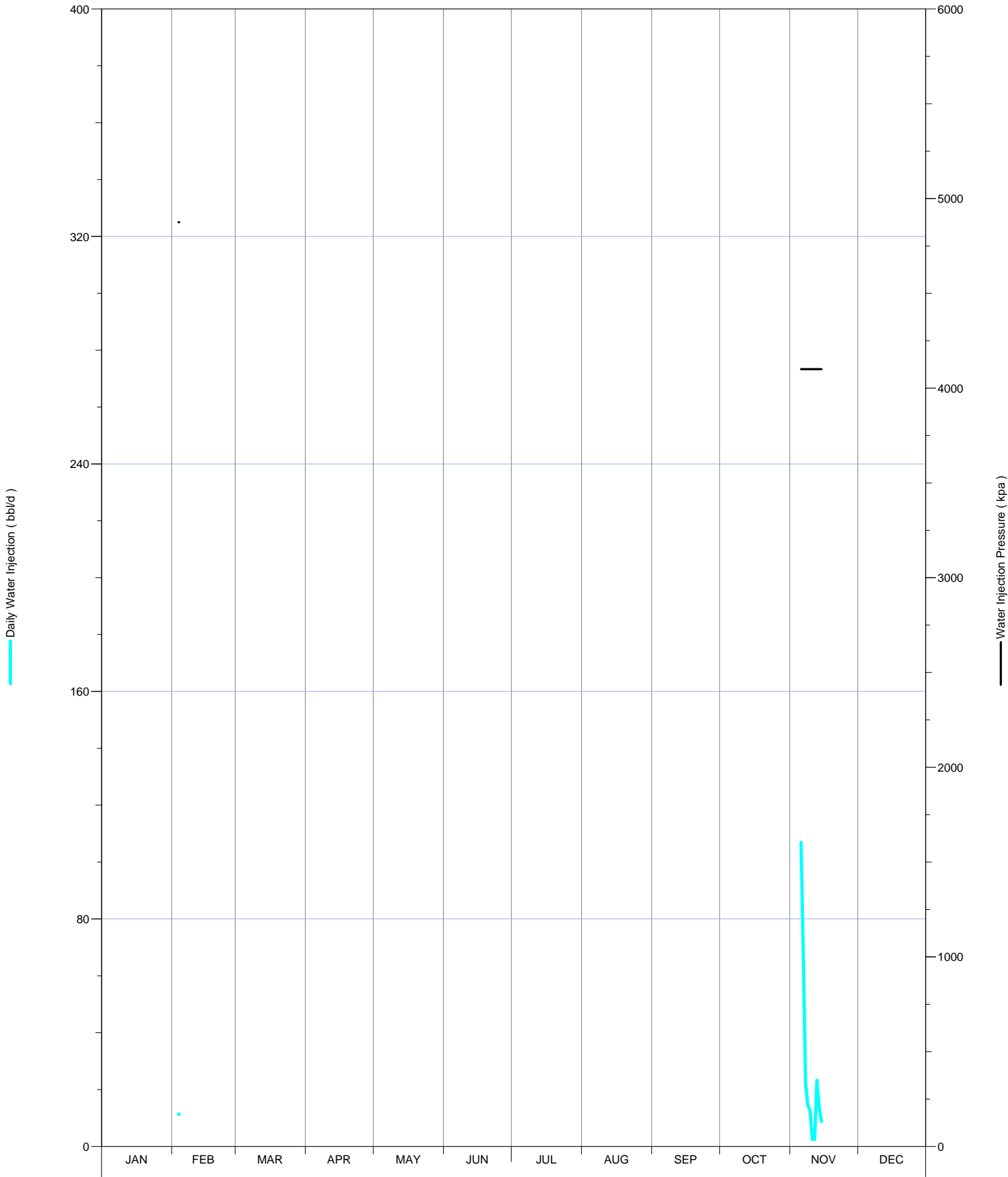
Daily Injection Rate and Pressure for: B0/06-16-002-29W1/0



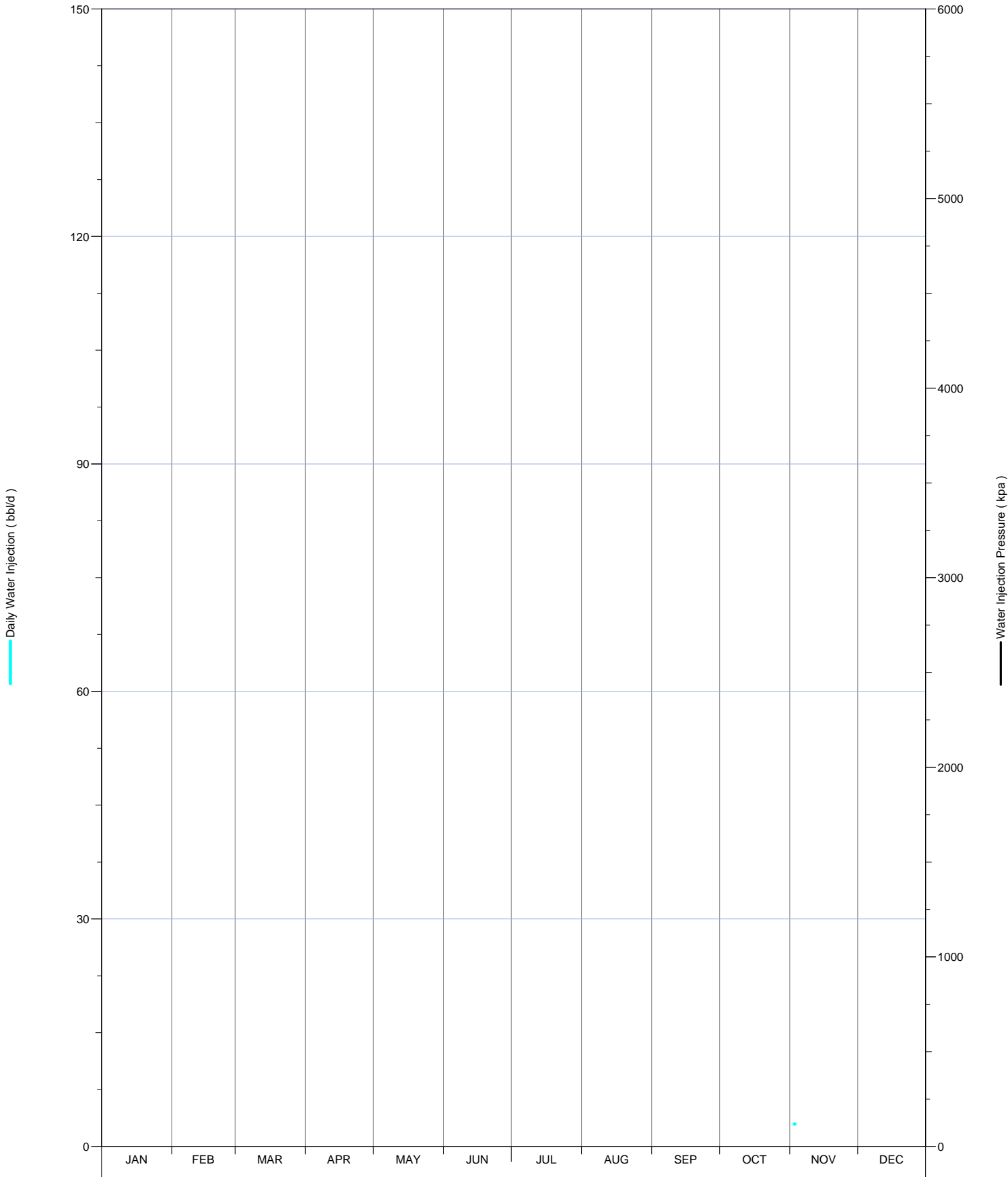
Daily Injection Rate and Pressure for: B0/08-09-002-29W1/0



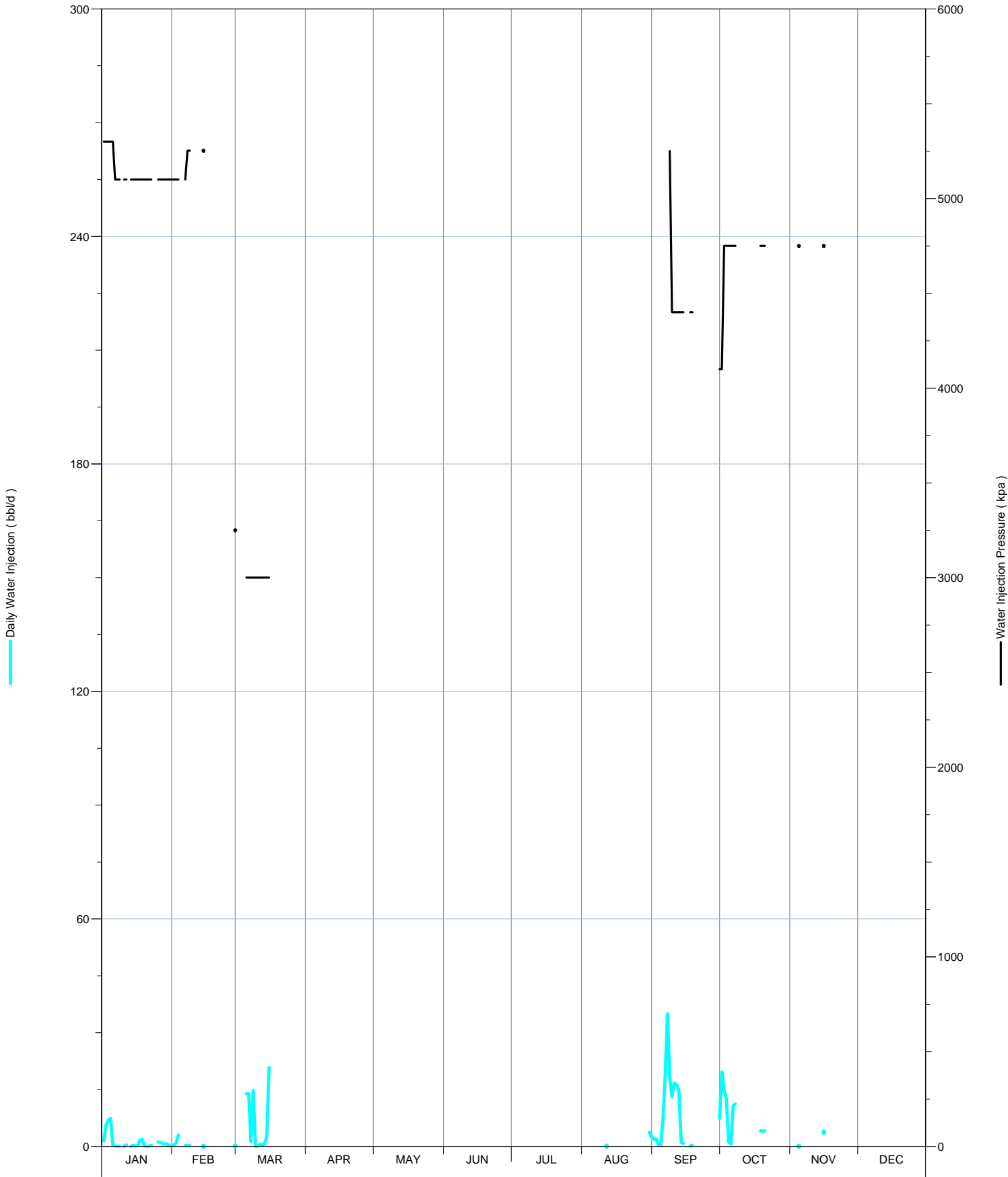
Daily Injection Rate and Pressure for: B0/08-16-002-29W1/0



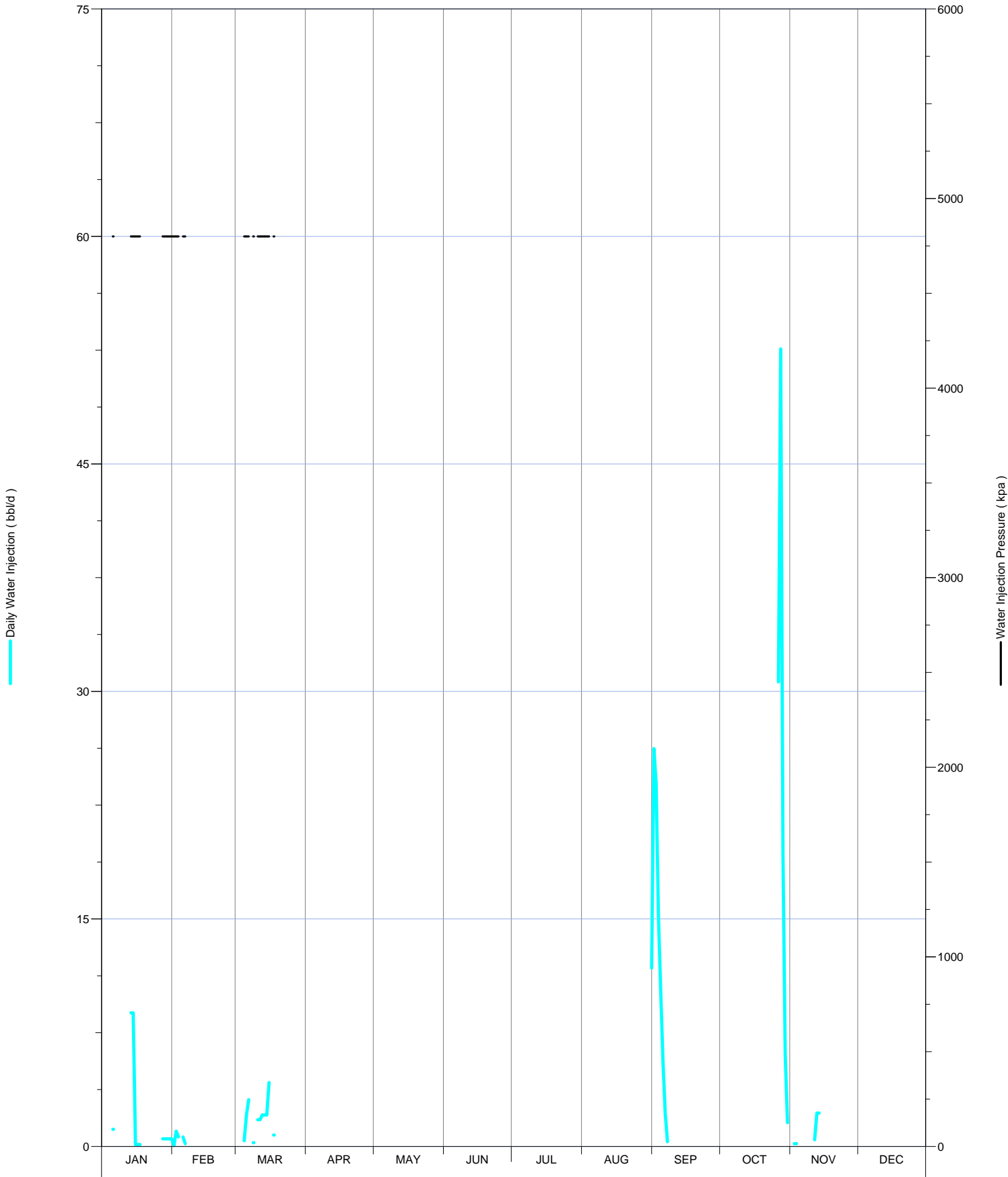
Daily Injection Rate and Pressure for: B0/12-17-002-29W1/0



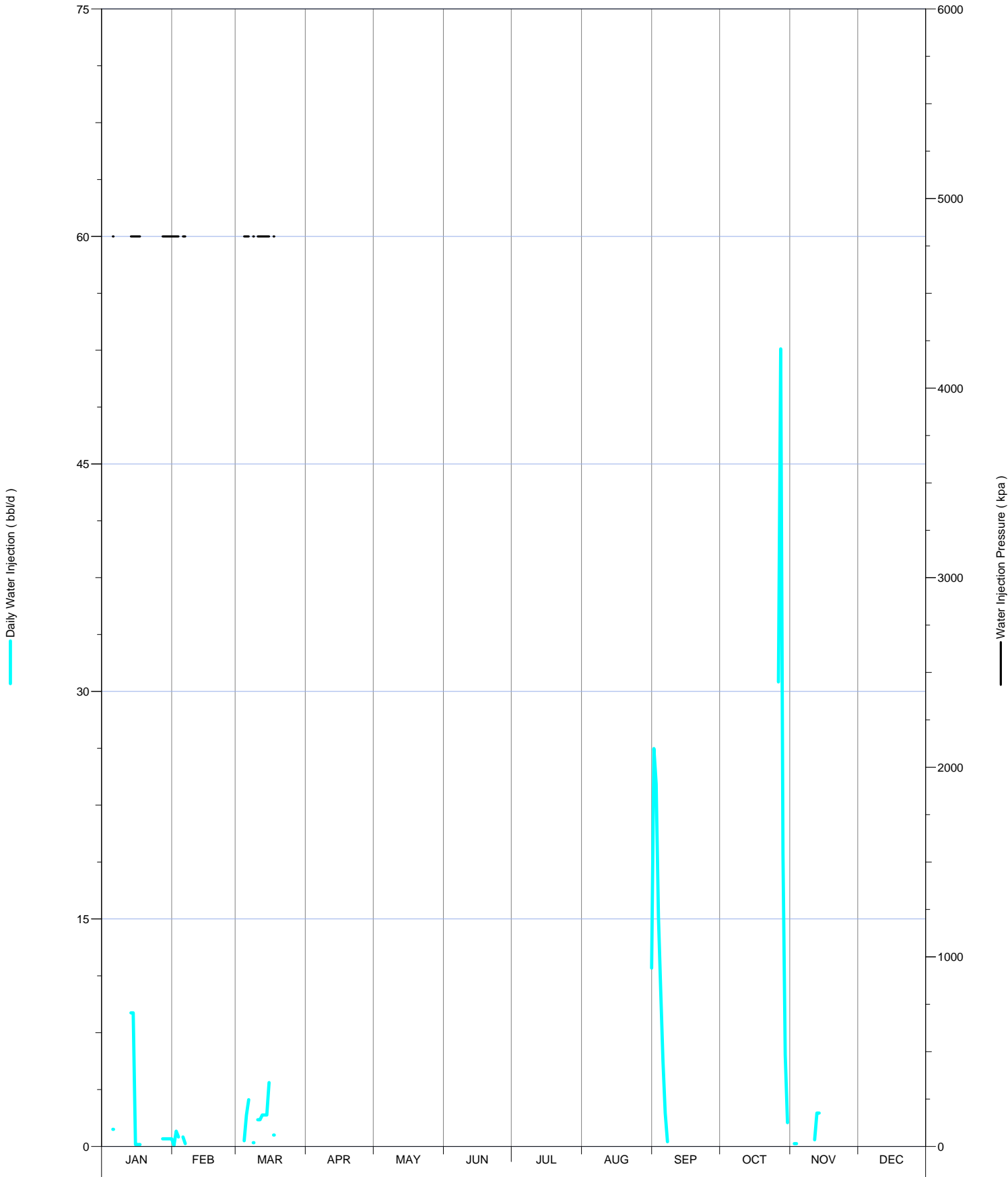
Daily Injection Rate and Pressure for: B0/14-04-002-29W1/0



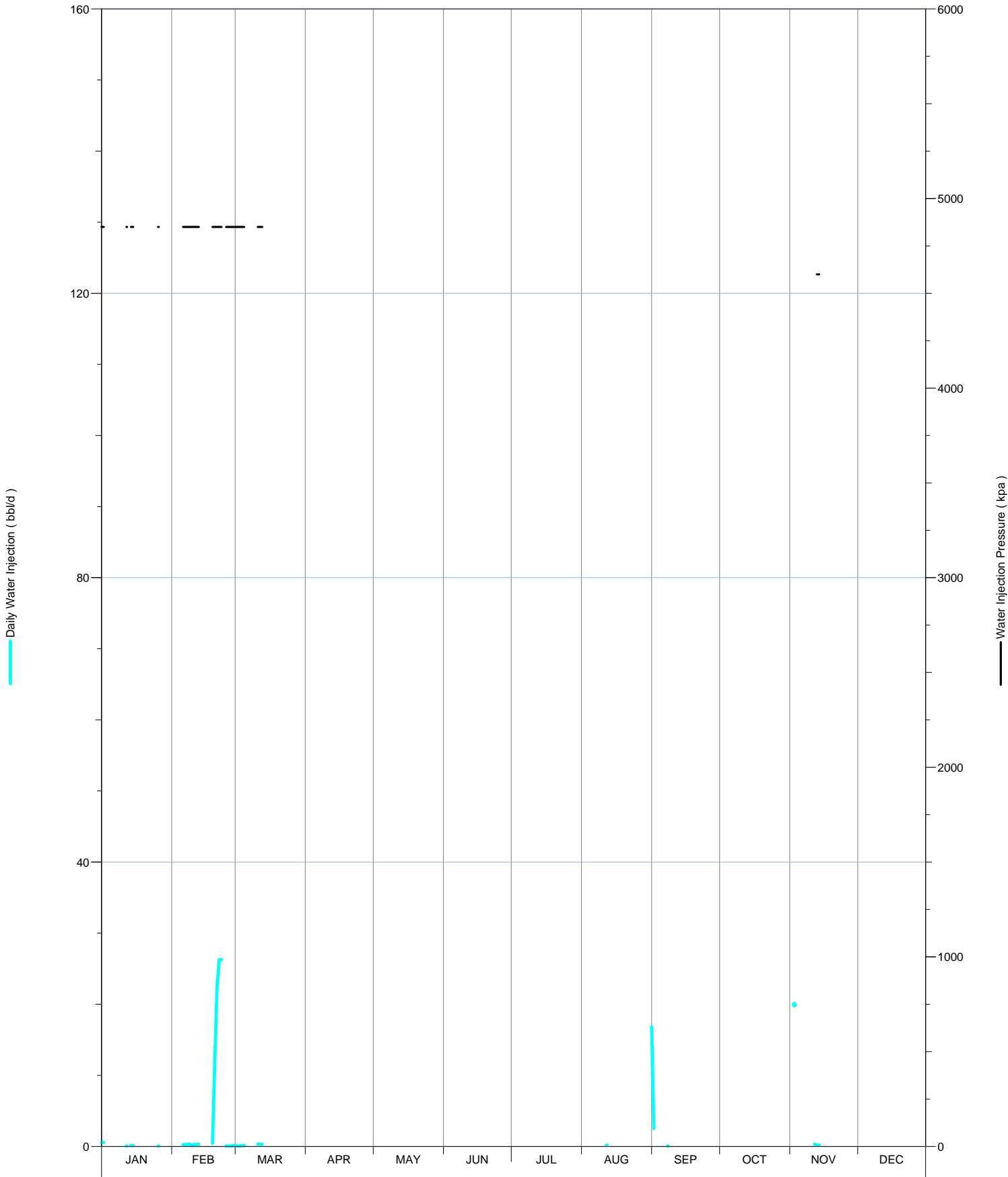
Daily Injection Rate and Pressure for: B0/14-08-002-29W1/0



Daily Injection Rate and Pressure for: B0/14-08-002-29W1/0

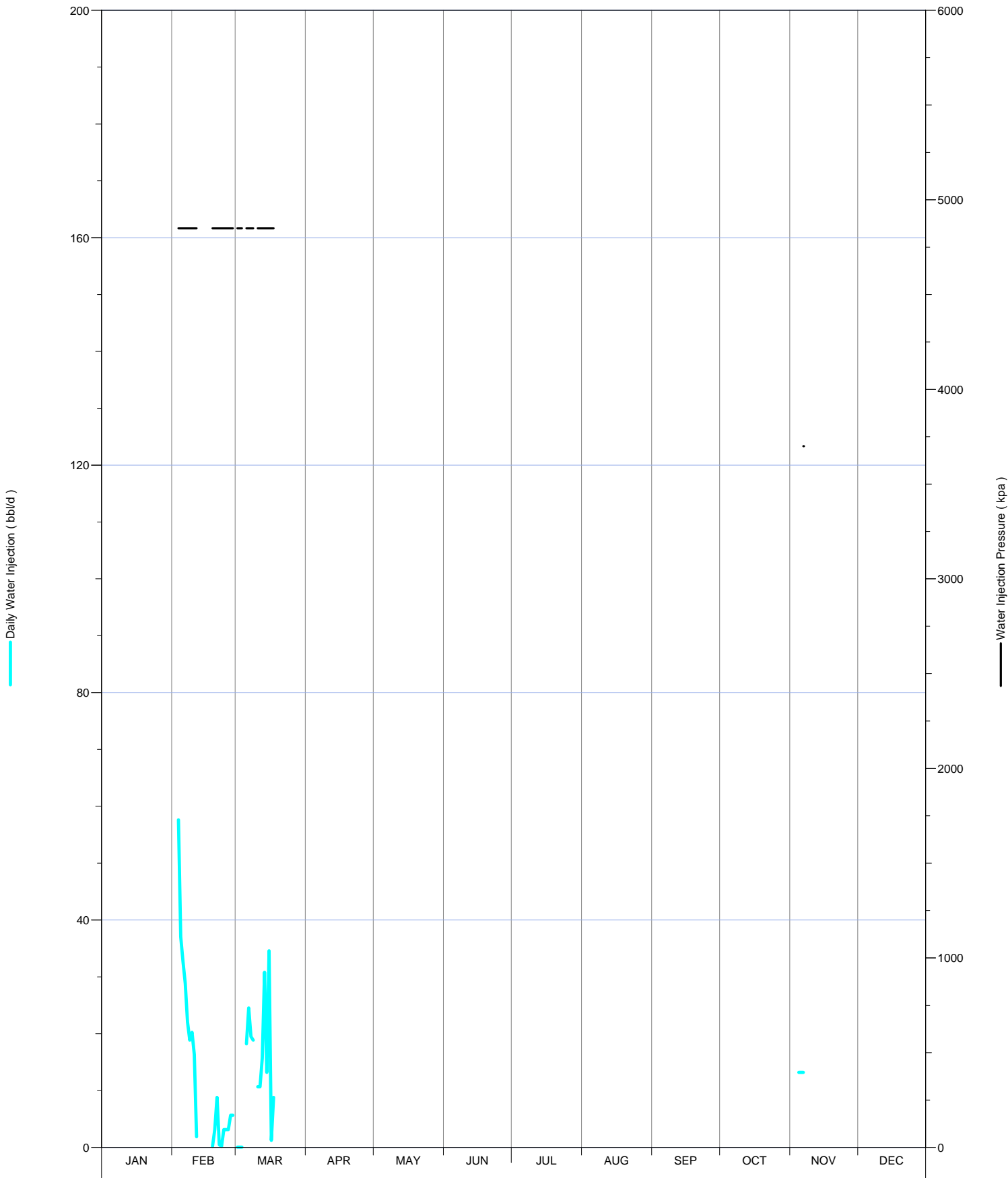


Daily Injection Rate and Pressure for: B0/16-17-002-29W1/0

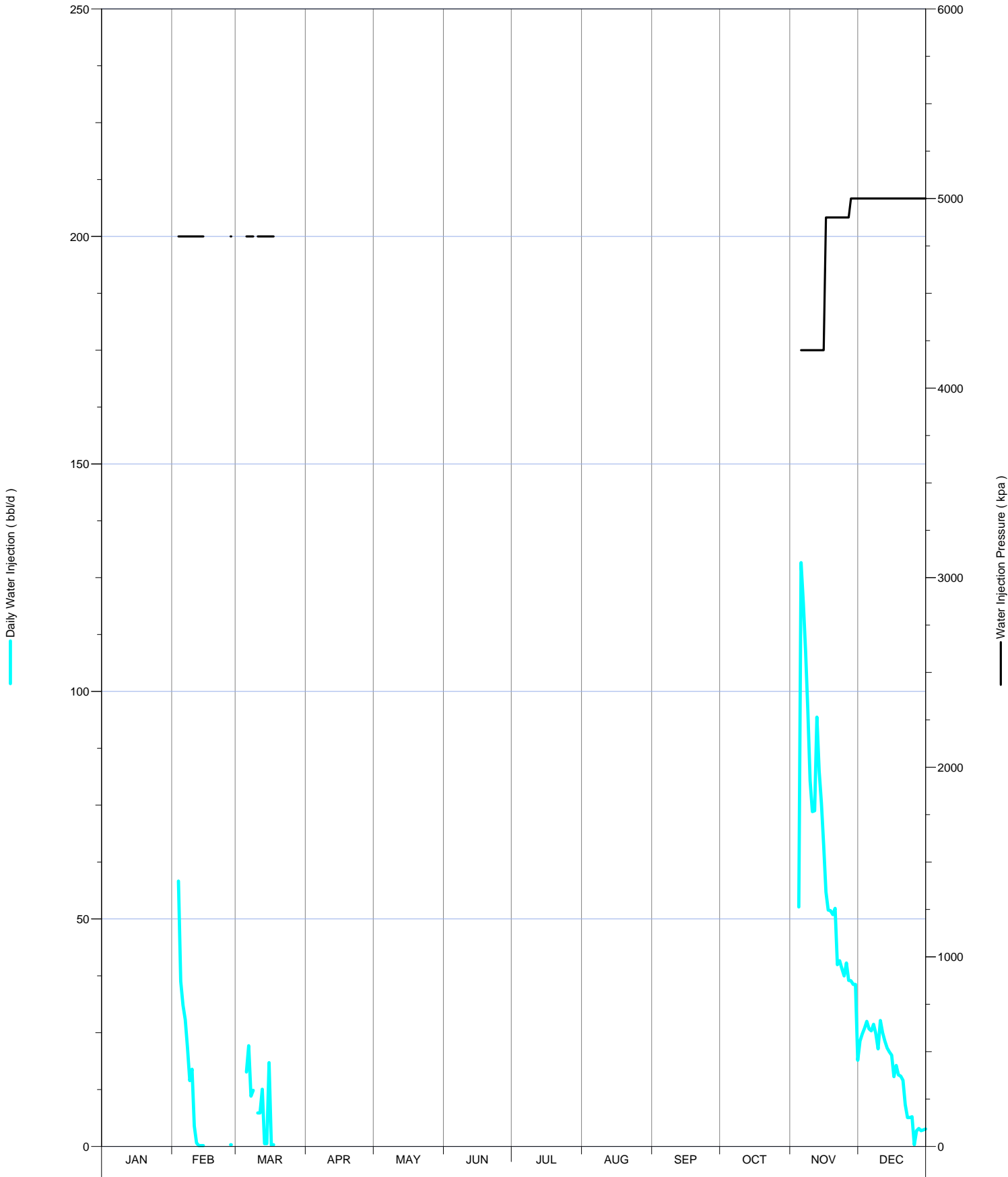




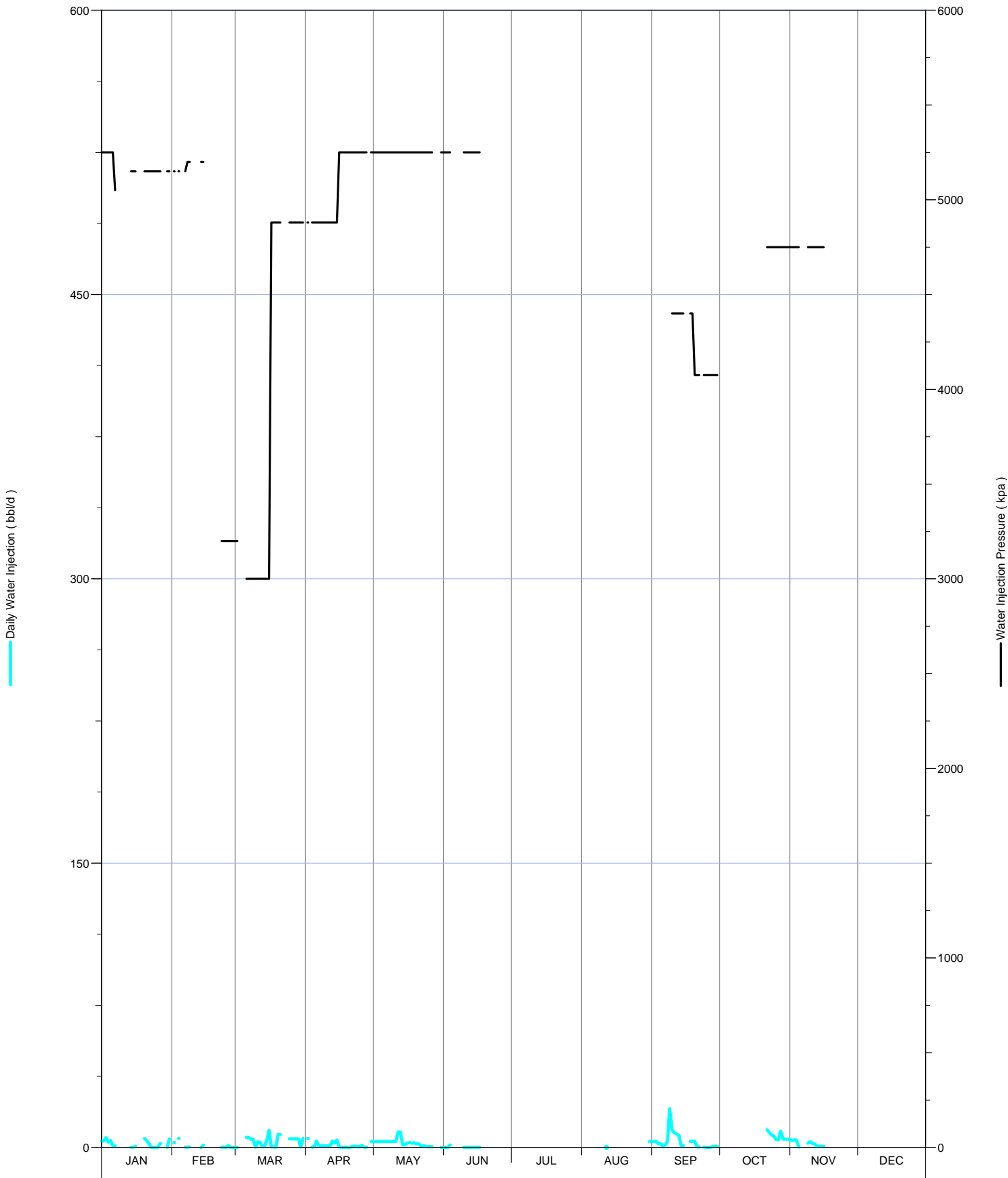
Daily Injection Rate and Pressure for: C0/05-16-002-29W1/0



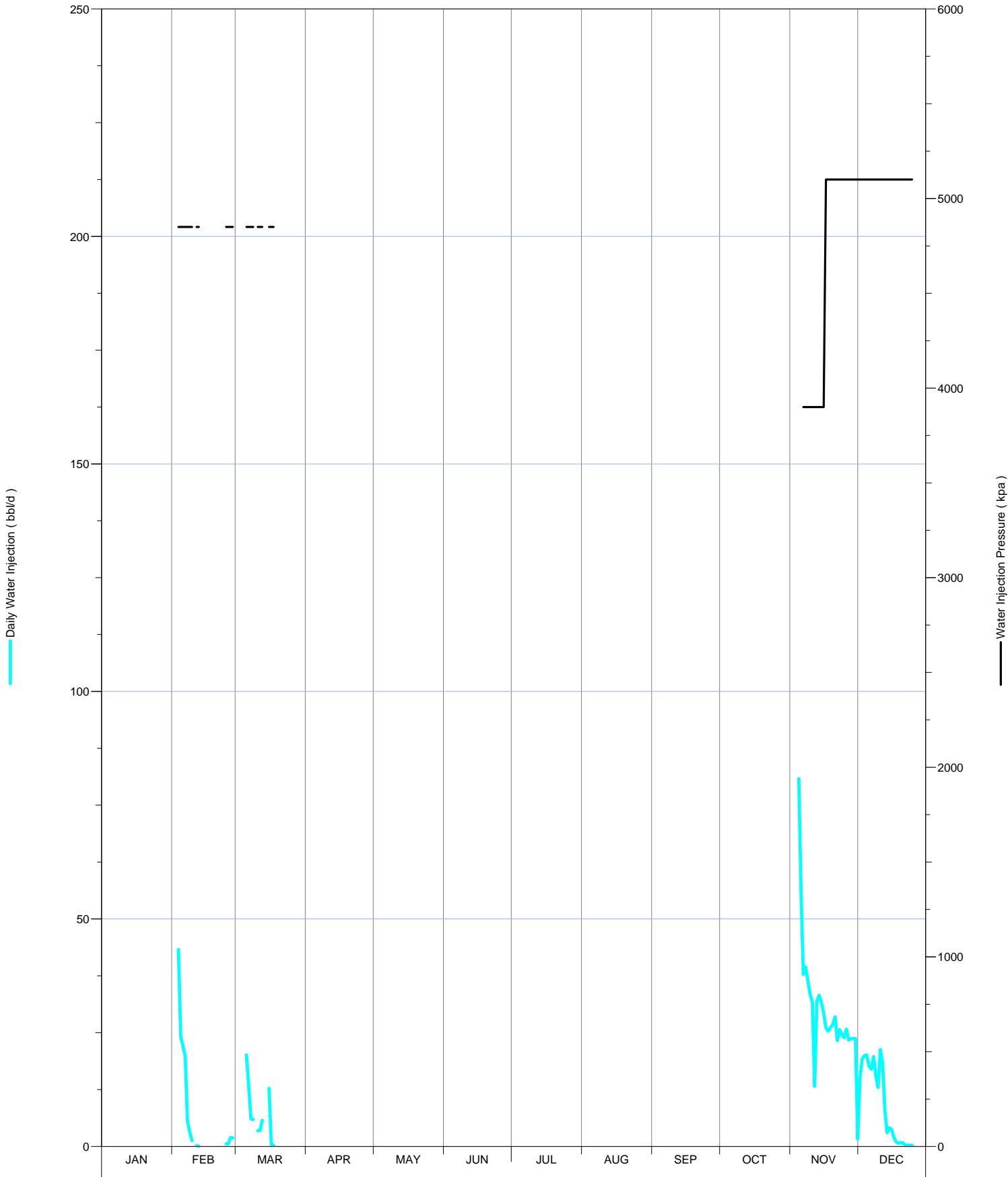
Daily Injection Rate and Pressure for: C0/11-16-002-29W1/0



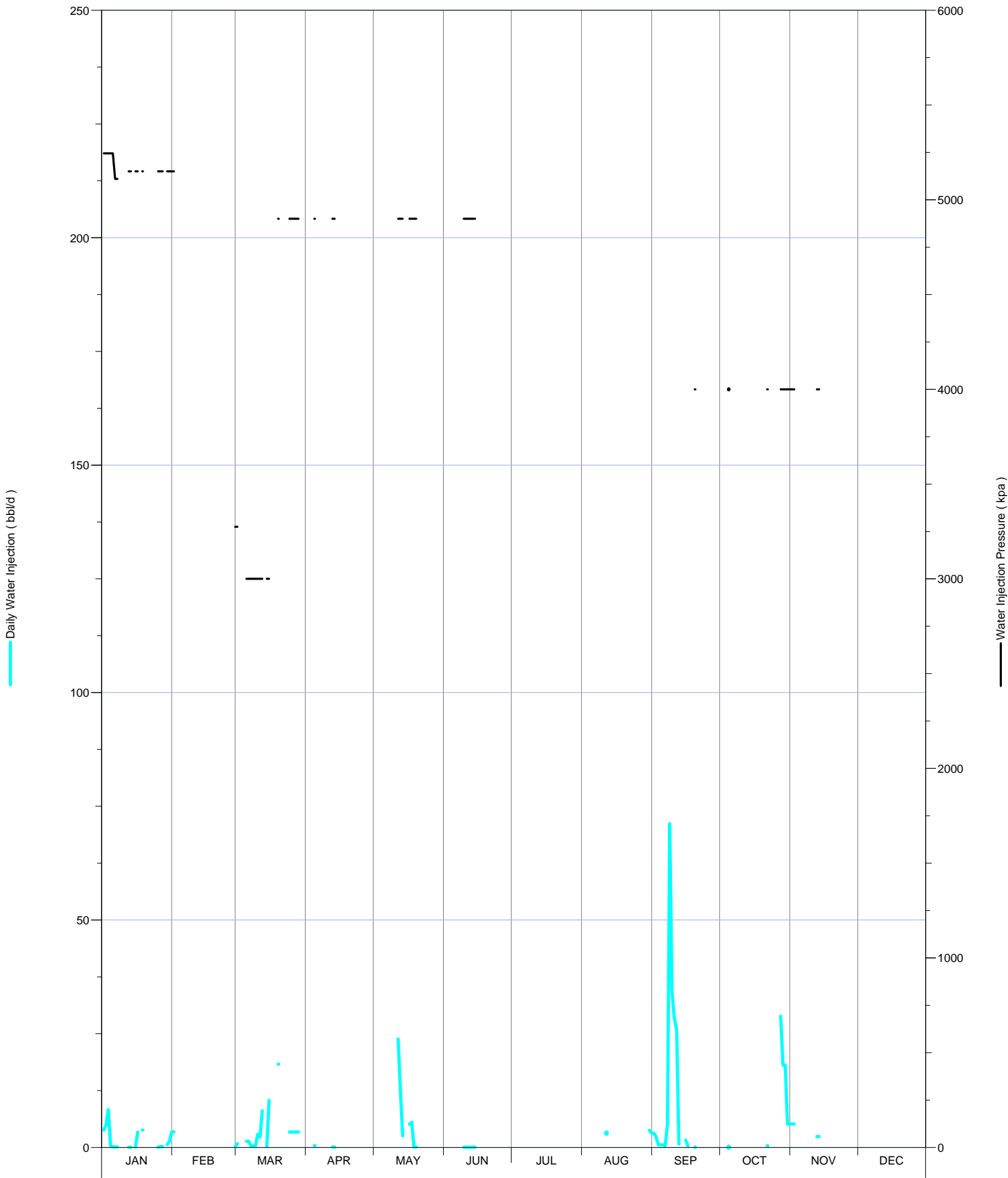
Daily Injection Rate and Pressure for: C0/15-04-002-29W1/0



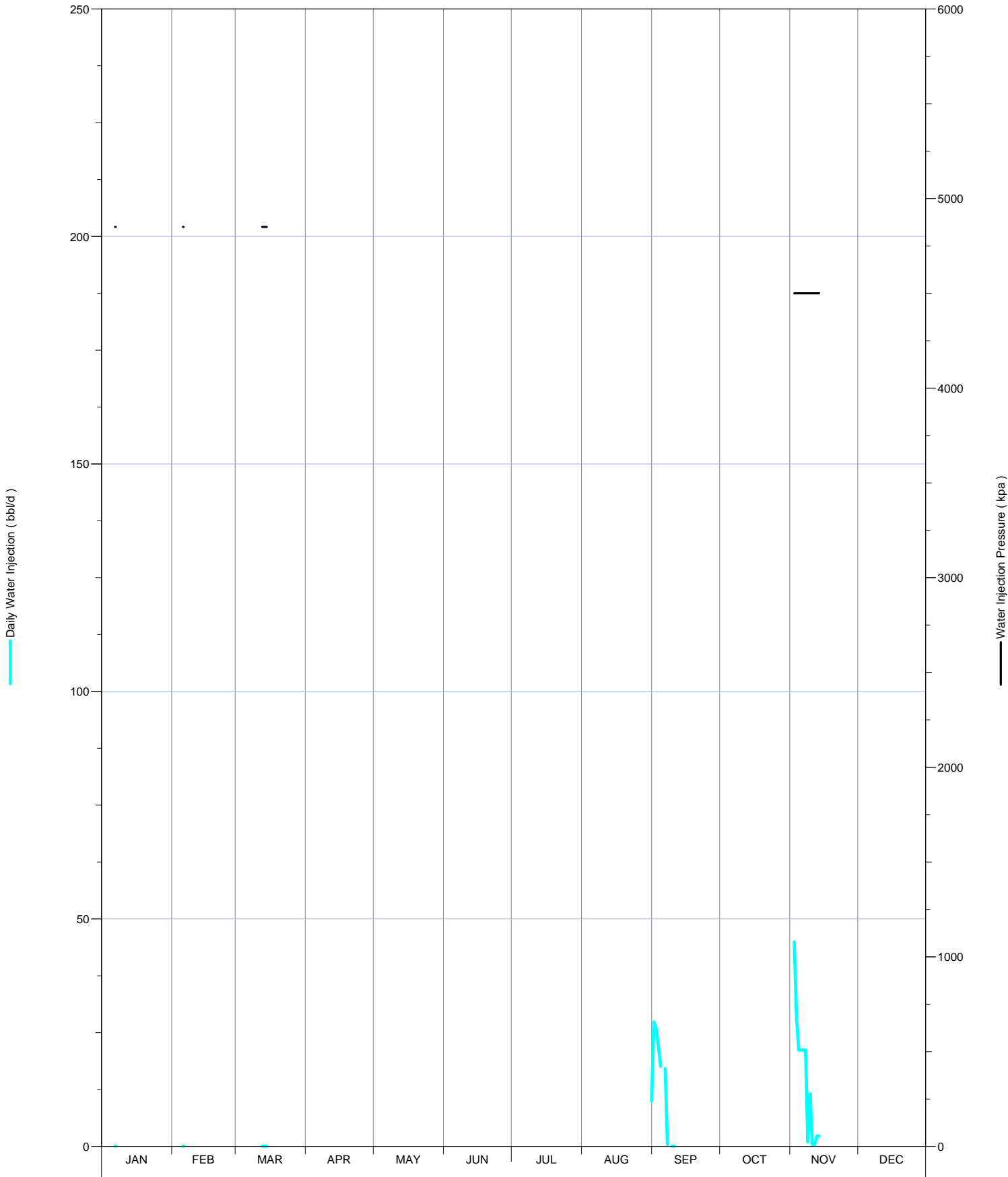
Daily Injection Rate and Pressure for: C2/07-16-002-29W1/0



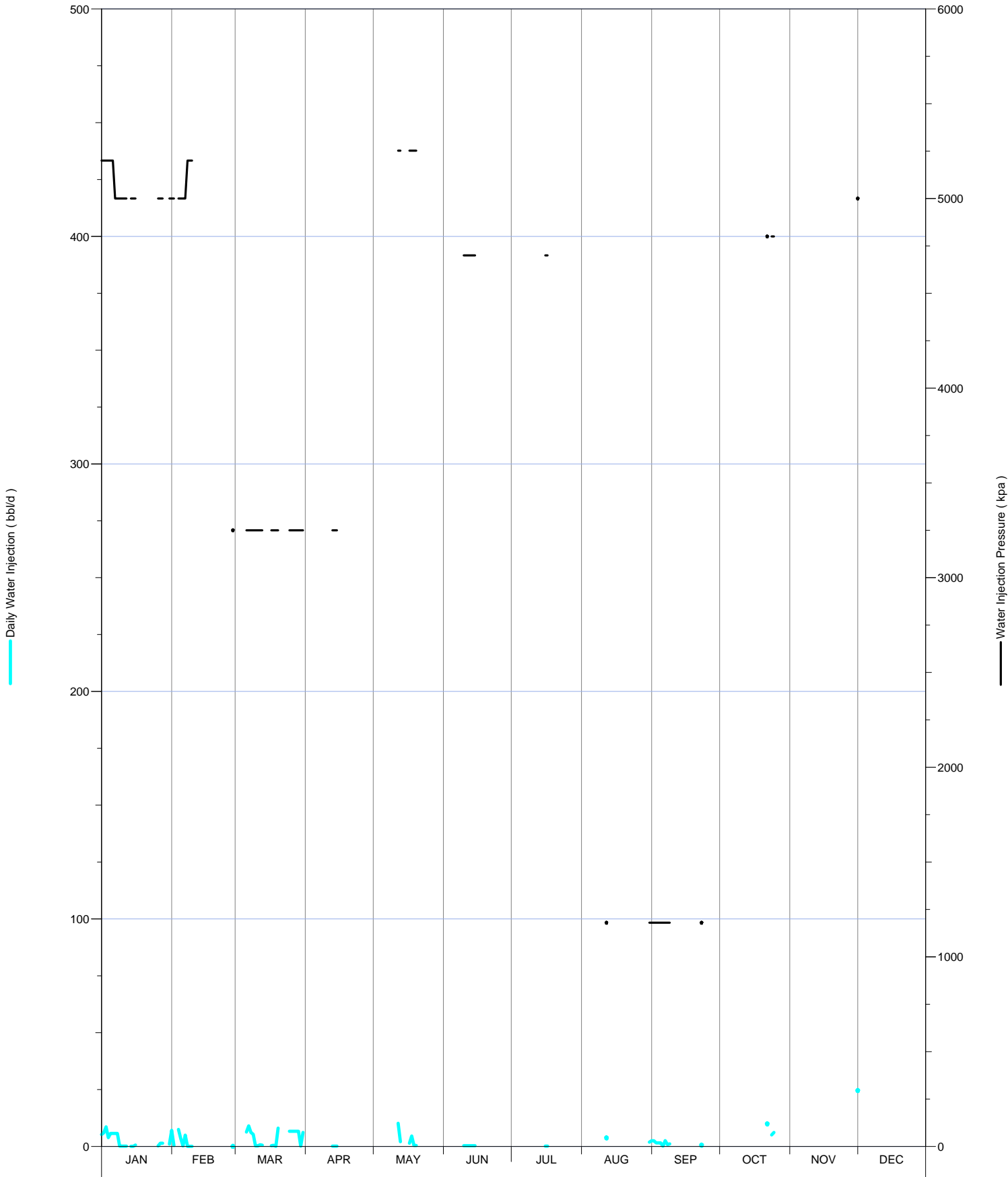
Daily Injection Rate and Pressure for: D0/02-09-002-29W1/0



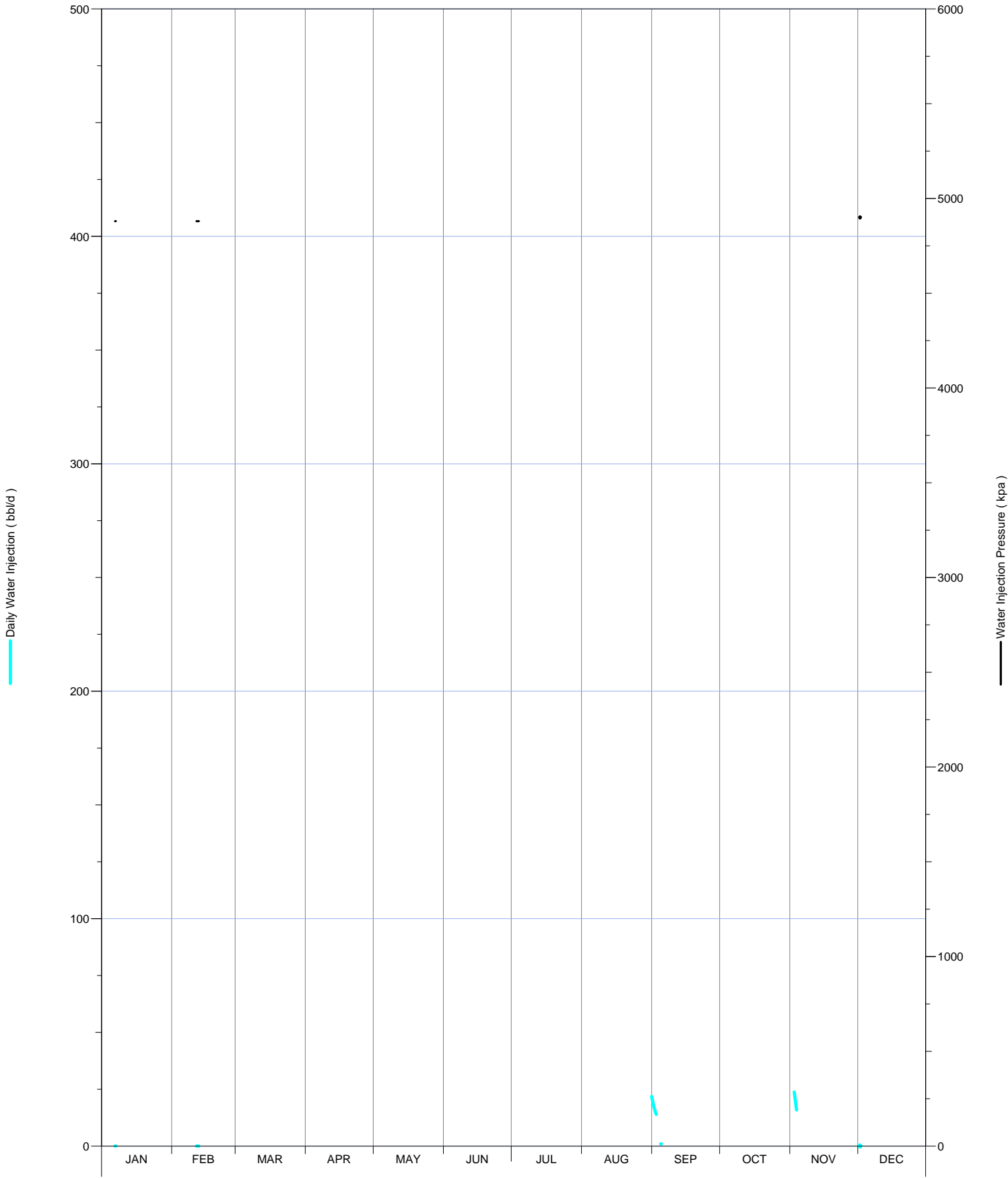
Daily Injection Rate and Pressure for: D0/02-17-002-29W1/0



Daily Injection Rate and Pressure for: D0/04-09-002-29W1/0

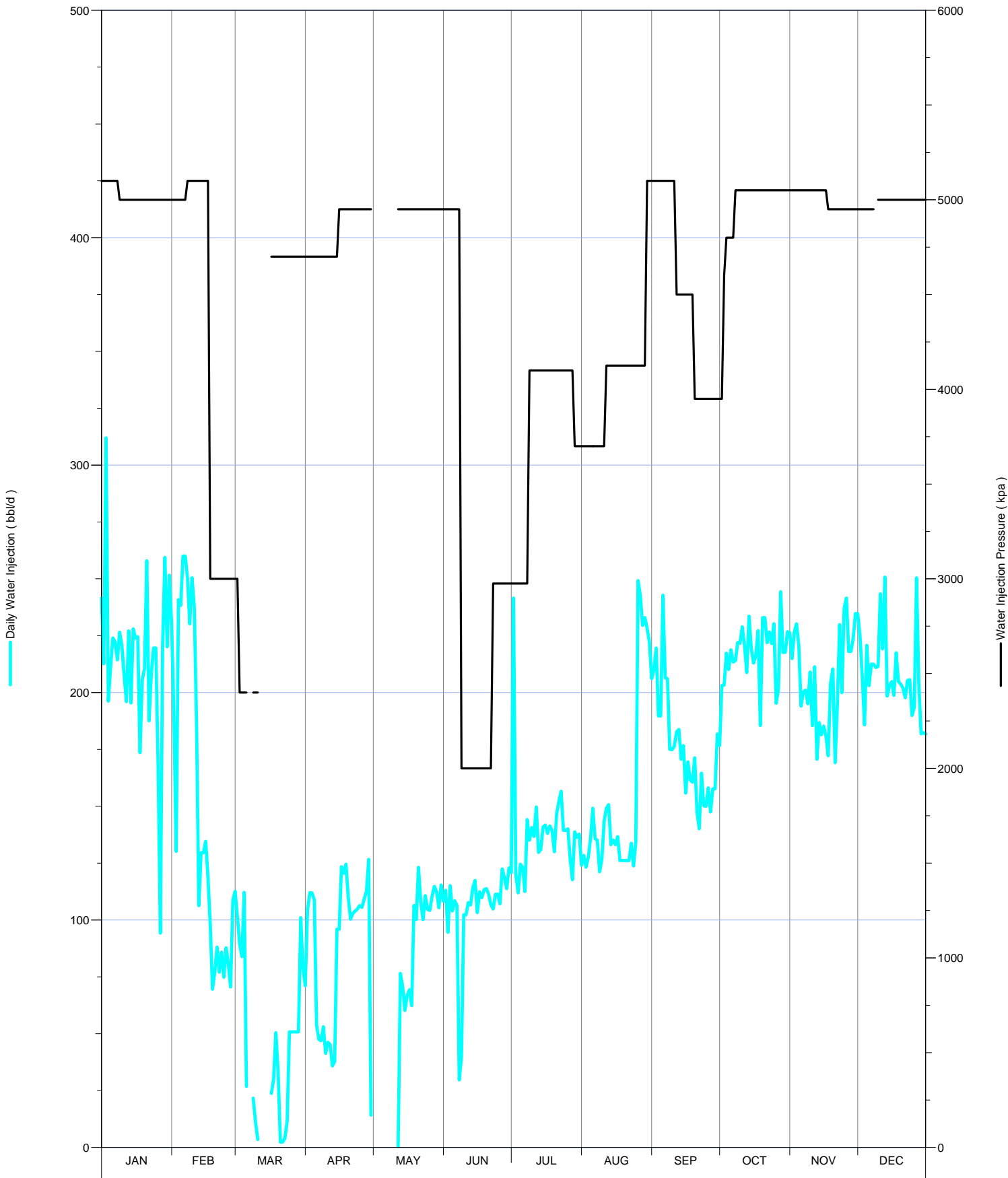


Daily Injection Rate and Pressure for: D0/04-17-002-29W1/0

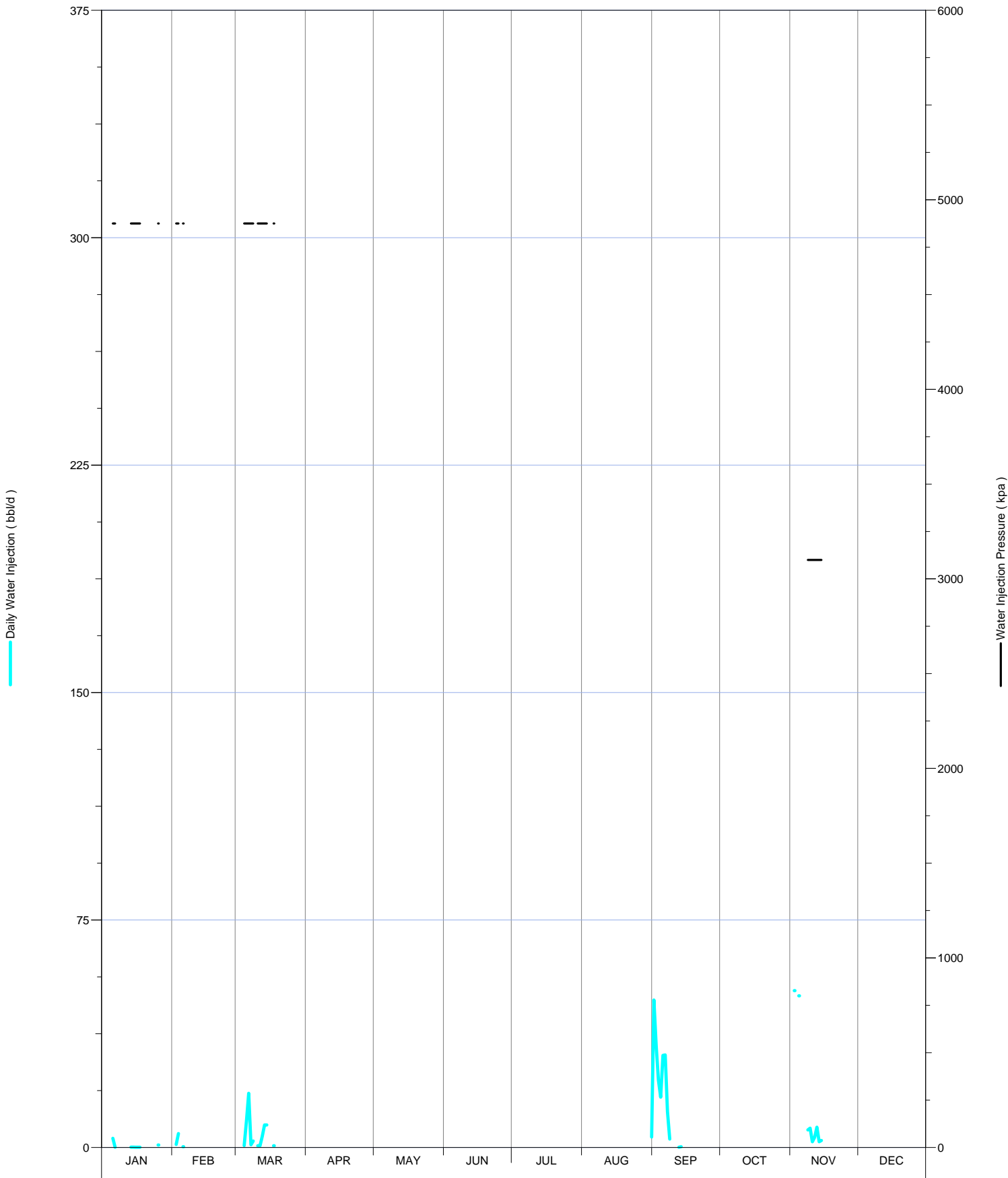




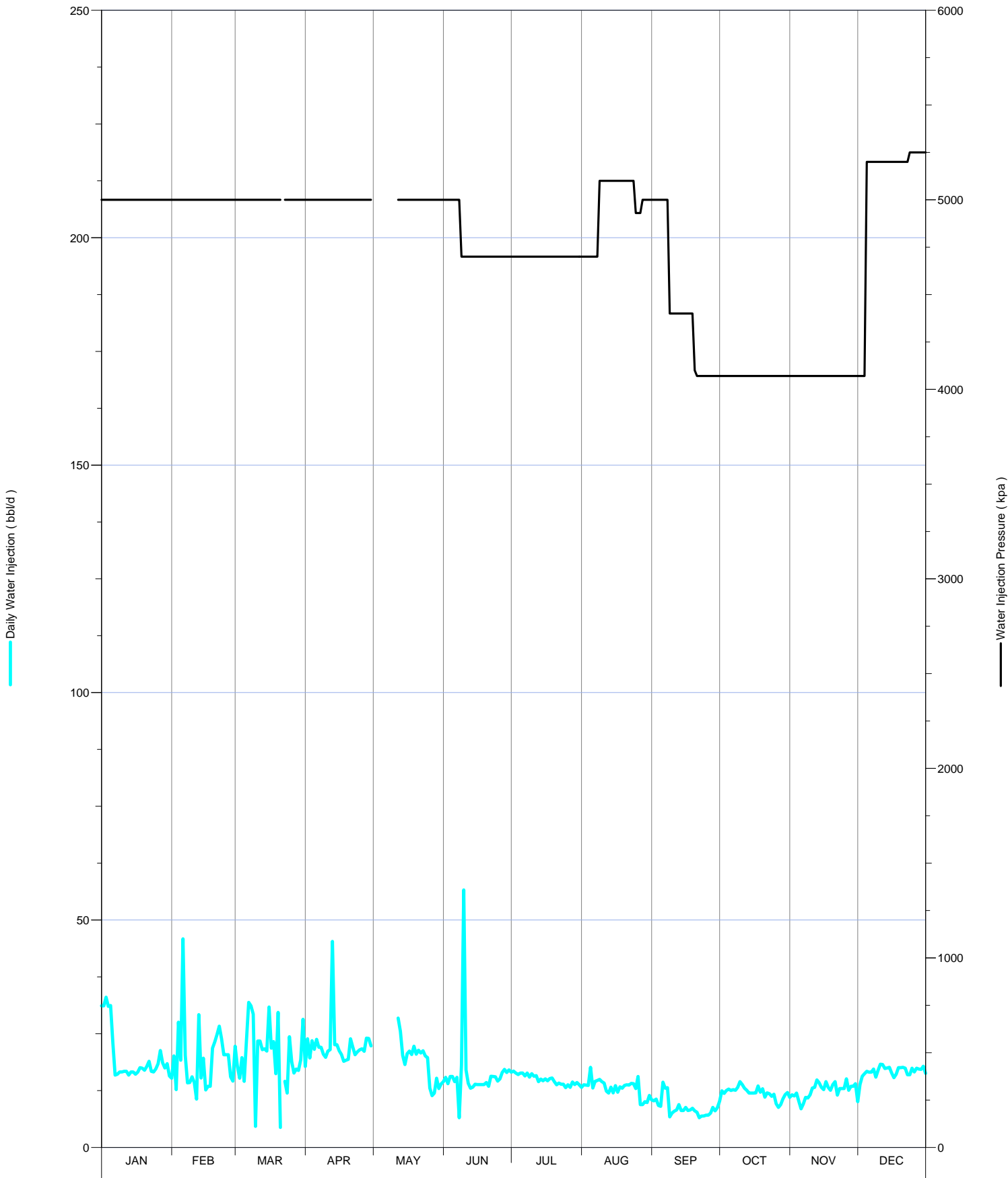
Daily Injection Rate and Pressure for: D0/06-09-002-29W1/0



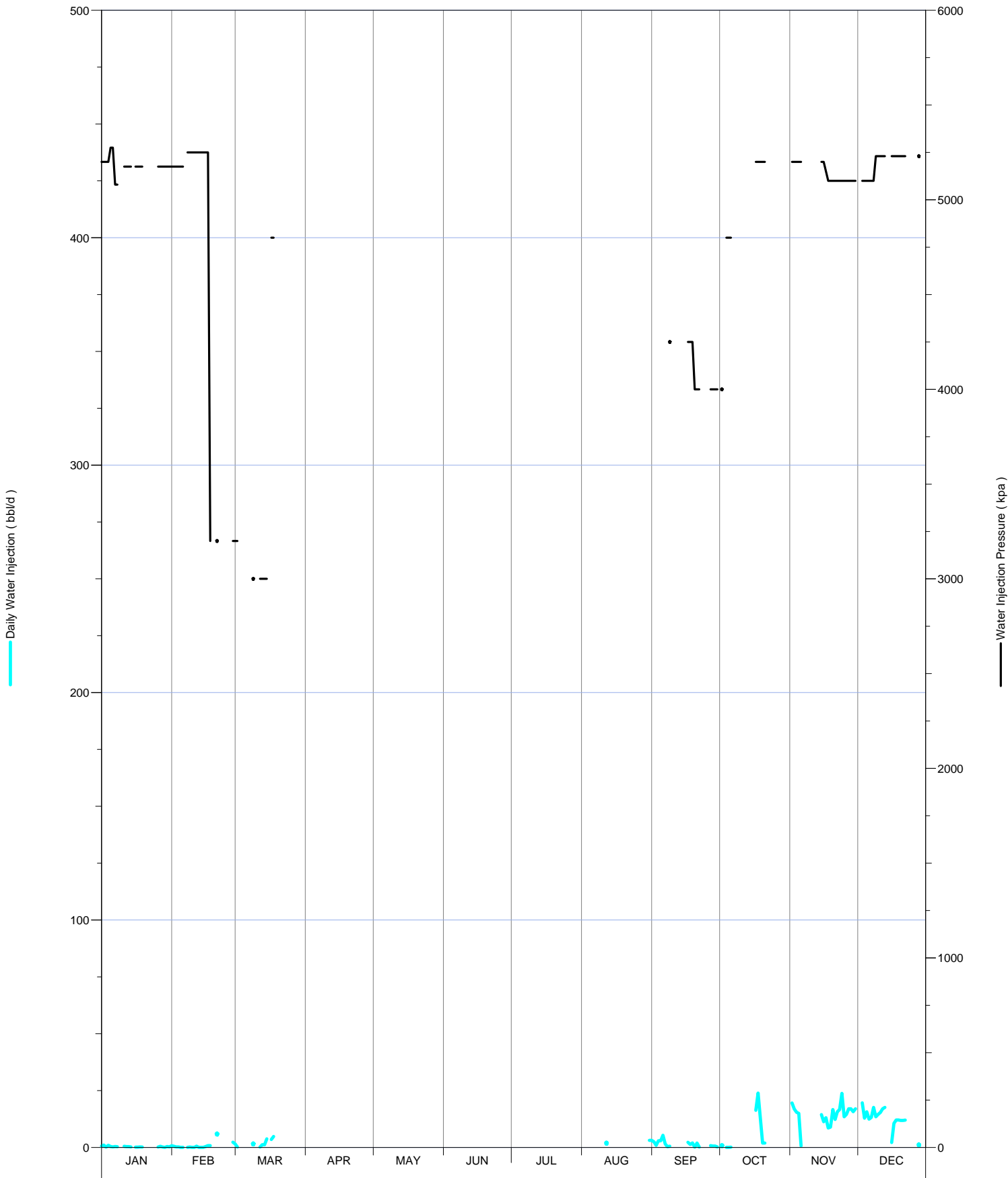
Daily Injection Rate and Pressure for: D0/06-17-002-29W1/0



Daily Injection Rate and Pressure for: D0/14-09-002-29W1/0



Daily Injection Rate and Pressure for: D0/16-05-002-29W1/0



D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
00/02-08-002-29W1/0	Jan-15	5121
00/02-08-002-29W1/0	Feb-15	4380
00/02-08-002-29W1/0	Mar-15	2938
00/02-08-002-29W1/0	Aug-15	
00/02-08-002-29W1/0	Sep-15	1379
00/02-08-002-29W1/0	Oct-15	4800
00/02-08-002-29W1/0	Nov-15	4934
00/02-08-002-29W1/0	Dec-15	5189
00/02-09-002-29W1/0	Jan-15	5121
00/02-09-002-29W1/0	Feb-15	4380
00/02-09-002-29W1/0	Mar-15	2938
00/02-09-002-29W1/0	Aug-15	
00/02-09-002-29W1/0	Sep-15	1379
00/02-09-002-29W1/0	Oct-15	4800
00/02-09-002-29W1/0	Nov-15	4934
00/02-09-002-29W1/0	Dec-15	5189
00/02-16-002-29W1/0	Jan-15	5121
00/02-16-002-29W1/0	Feb-15	4380
00/02-16-002-29W1/0	Mar-15	2938
00/02-16-002-29W1/0	Aug-15	
00/02-16-002-29W1/0	Sep-15	1379
00/02-16-002-29W1/0	Oct-15	4800
00/02-16-002-29W1/0	Nov-15	4934
00/02-16-002-29W1/0	Dec-15	5189
00/02-17-002-29W1/0	Jan-15	5121
00/02-17-002-29W1/0	Feb-15	4380
00/02-17-002-29W1/0	Mar-15	2938
00/02-17-002-29W1/0	Aug-15	
00/02-17-002-29W1/0	Sep-15	1379
00/02-17-002-29W1/0	Oct-15	4800
00/02-17-002-29W1/0	Nov-15	4934
00/02-17-002-29W1/0	Dec-15	5189
00/04-09-002-29W1/0	Jan-15	5121
00/04-09-002-29W1/0	Feb-15	4380
00/04-09-002-29W1/0	Mar-15	2938
00/04-09-002-29W1/0	Aug-15	
00/04-09-002-29W1/0	Sep-15	1379
00/04-09-002-29W1/0	Oct-15	4800
00/04-09-002-29W1/0	Nov-15	4934
00/04-09-002-29W1/0	Dec-15	5189
00/04-15-002-29W1/0	Jan-15	5121
00/04-15-002-29W1/0	Feb-15	4380
00/04-15-002-29W1/0	Mar-15	2938
00/04-15-002-29W1/0	Aug-15	

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
00/04-15-002-29W1/0	Sep-15	1379
00/04-15-002-29W1/0	Oct-15	4800
00/04-15-002-29W1/0	Nov-15	4934
00/04-15-002-29W1/0	Dec-15	5189
00/04-16-002-29W1/0	Jan-15	5121
00/04-16-002-29W1/0	Feb-15	4380
00/04-16-002-29W1/0	Mar-15	2938
00/04-16-002-29W1/0	Aug-15	
00/04-16-002-29W1/0	Sep-15	1379
00/04-16-002-29W1/0	Oct-15	4800
00/04-16-002-29W1/0	Nov-15	4934
00/04-16-002-29W1/0	Dec-15	5189
00/04-17-002-29W1/0	Jan-15	5121
00/04-17-002-29W1/0	Feb-15	4380
00/04-17-002-29W1/0	Mar-15	2938
00/04-17-002-29W1/0	Aug-15	
00/04-17-002-29W1/0	Sep-15	1379
00/04-17-002-29W1/0	Oct-15	4800
00/04-17-002-29W1/0	Nov-15	4934
00/04-17-002-29W1/0	Dec-15	5189
00/06-08-002-29W1/0	Jan-15	5121
00/06-08-002-29W1/0	Feb-15	4380
00/06-08-002-29W1/0	Mar-15	2938
00/06-08-002-29W1/0	Aug-15	
00/06-08-002-29W1/0	Sep-15	1379
00/06-08-002-29W1/0	Oct-15	4800
00/06-08-002-29W1/0	Nov-15	4934
00/06-08-002-29W1/0	Dec-15	5189
00/06-09-002-29W1/0	Jan-15	5121
00/06-09-002-29W1/0	Feb-15	4380
00/06-09-002-29W1/0	Mar-15	2938
00/06-09-002-29W1/0	Aug-15	
00/06-09-002-29W1/0	Sep-15	1379
00/06-09-002-29W1/0	Oct-15	4800
00/06-09-002-29W1/0	Nov-15	4934
00/06-09-002-29W1/0	Dec-15	5189
00/06-16-002-29W1/0	Jan-15	5121
00/06-16-002-29W1/0	Feb-15	4380
00/06-16-002-29W1/0	Mar-15	2938
00/06-16-002-29W1/0	Aug-15	
00/06-16-002-29W1/0	Sep-15	1379
00/06-16-002-29W1/0	Oct-15	4800
00/06-16-002-29W1/0	Nov-15	4934
00/06-16-002-29W1/0	Dec-15	5189

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
00/06-17-002-29W1/0	Jan-15	5121
00/06-17-002-29W1/0	Feb-15	4380
00/06-17-002-29W1/0	Mar-15	2938
00/06-17-002-29W1/0	Aug-15	
00/06-17-002-29W1/0	Sep-15	1379
00/06-17-002-29W1/0	Oct-15	4800
00/06-17-002-29W1/0	Nov-15	4934
00/06-17-002-29W1/0	Dec-15	5189
00/08-08-002-29W1/0	Jan-15	5121
00/08-08-002-29W1/0	Feb-15	4380
00/08-08-002-29W1/0	Mar-15	2938
00/08-08-002-29W1/0	Aug-15	
00/08-08-002-29W1/0	Sep-15	1379
00/08-08-002-29W1/0	Oct-15	4800
00/08-08-002-29W1/0	Nov-15	4934
00/08-08-002-29W1/0	Dec-15	5189
00/08-09-002-29W1/0	Jan-15	5121
00/08-09-002-29W1/0	Feb-15	4380
00/08-09-002-29W1/0	Mar-15	2938
00/08-09-002-29W1/0	Aug-15	
00/08-09-002-29W1/0	Sep-15	1379
00/08-09-002-29W1/0	Oct-15	4800
00/08-09-002-29W1/0	Nov-15	4934
00/08-09-002-29W1/0	Dec-15	5189
00/08-16-002-29W1/0	Jan-15	5121
00/08-16-002-29W1/0	Feb-15	4380
00/08-16-002-29W1/0	Mar-15	2938
00/08-16-002-29W1/0	Aug-15	
00/08-16-002-29W1/0	Sep-15	1379
00/08-16-002-29W1/0	Oct-15	4800
00/08-16-002-29W1/0	Nov-15	4934
00/08-16-002-29W1/0	Dec-15	5189
00/08-17-002-29W1/0	Jan-15	5121
00/08-17-002-29W1/0	Feb-15	4380
00/08-17-002-29W1/0	Mar-15	2938
00/08-17-002-29W1/0	Aug-15	
00/08-17-002-29W1/0	Sep-15	1379
00/08-17-002-29W1/0	Oct-15	4800
00/08-17-002-29W1/0	Nov-15	4934
00/08-17-002-29W1/0	Dec-15	5189
00/08-18-002-29W1/0	Jan-15	5121
00/08-18-002-29W1/0	Feb-15	4380
00/08-18-002-29W1/0	Mar-15	2938
00/08-18-002-29W1/0	Aug-15	

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
00/08-18-002-29W1/0	Sep-15	1379
00/08-18-002-29W1/0	Oct-15	4800
00/08-18-002-29W1/0	Nov-15	4934
00/08-18-002-29W1/0	Dec-15	5189
00/10-08-002-29W1/0	Jan-15	5121
00/10-08-002-29W1/0	Feb-15	4380
00/10-08-002-29W1/0	Mar-15	2938
00/10-08-002-29W1/0	Aug-15	
00/10-08-002-29W1/0	Sep-15	1379
00/10-08-002-29W1/0	Oct-15	4800
00/10-08-002-29W1/0	Nov-15	4934
00/10-08-002-29W1/0	Dec-15	5189
00/10-09-002-29W1/0	Jan-15	5121
00/10-09-002-29W1/0	Feb-15	4380
00/10-09-002-29W1/0	Mar-15	2938
00/10-09-002-29W1/0	Aug-15	
00/10-09-002-29W1/0	Sep-15	1379
00/10-09-002-29W1/0	Oct-15	4800
00/10-09-002-29W1/0	Nov-15	4934
00/10-09-002-29W1/0	Dec-15	5189
00/10-16-002-29W1/0	Jan-15	5121
00/10-16-002-29W1/0	Feb-15	4380
00/10-16-002-29W1/0	Mar-15	2938
00/10-16-002-29W1/0	Aug-15	
00/10-16-002-29W1/0	Sep-15	1379
00/10-16-002-29W1/0	Oct-15	4800
00/10-16-002-29W1/0	Nov-15	4934
00/10-16-002-29W1/0	Dec-15	5189
00/12-04-002-29W1/0	Jan-15	5121
00/12-04-002-29W1/0	Feb-15	4380
00/12-04-002-29W1/0	Mar-15	2938
00/12-04-002-29W1/0	Aug-15	
00/12-04-002-29W1/0	Sep-15	1379
00/12-04-002-29W1/0	Oct-15	4800
00/12-04-002-29W1/0	Nov-15	4934
00/12-04-002-29W1/0	Dec-15	5189
00/12-08-002-29W1/0	Jan-15	5121
00/12-08-002-29W1/0	Feb-15	4380
00/12-08-002-29W1/0	Mar-15	2938
00/12-08-002-29W1/0	Aug-15	
00/12-08-002-29W1/0	Sep-15	1379
00/12-08-002-29W1/0	Oct-15	4800
00/12-08-002-29W1/0	Nov-15	4934
00/12-08-002-29W1/0	Dec-15	5189



D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
00/12-09-002-29W1/0	Jan-15	5121
00/12-09-002-29W1/0	Feb-15	4380
00/12-09-002-29W1/0	Mar-15	2938
00/12-09-002-29W1/0	Aug-15	
00/12-09-002-29W1/0	Sep-15	1379
00/12-09-002-29W1/0	Oct-15	4800
00/12-09-002-29W1/0	Nov-15	4934
00/12-09-002-29W1/0	Dec-15	5189
00/12-16-002-29W1/0	Jan-15	5121
00/12-16-002-29W1/0	Feb-15	4380
00/12-16-002-29W1/0	Mar-15	2938
00/12-16-002-29W1/0	Aug-15	
00/12-16-002-29W1/0	Sep-15	1379
00/12-16-002-29W1/0	Oct-15	4800
00/12-16-002-29W1/0	Nov-15	4934
00/12-16-002-29W1/0	Dec-15	5189
00/12-17-002-29W1/0	Jan-15	5121
00/12-17-002-29W1/0	Feb-15	4380
00/12-17-002-29W1/0	Mar-15	2938
00/12-17-002-29W1/0	Aug-15	
00/12-17-002-29W1/0	Sep-15	1379
00/12-17-002-29W1/0	Oct-15	4800
00/12-17-002-29W1/0	Nov-15	4934
00/12-17-002-29W1/0	Dec-15	5189
00/13-09-002-29W1/0	Jan-15	5121
00/13-09-002-29W1/0	Feb-15	4380
00/13-09-002-29W1/0	Mar-15	2938
00/13-09-002-29W1/0	Aug-15	
00/13-09-002-29W1/0	Sep-15	1379
00/13-09-002-29W1/0	Oct-15	4800
00/13-09-002-29W1/0	Nov-15	4934
00/13-09-002-29W1/0	Dec-15	5189
00/14-04-002-29W1/0	Jan-15	5121
00/14-04-002-29W1/0	Feb-15	4380
00/14-04-002-29W1/0	Mar-15	2938
00/14-04-002-29W1/0	Aug-15	
00/14-04-002-29W1/0	Sep-15	1379
00/14-04-002-29W1/0	Oct-15	4800
00/14-04-002-29W1/0	Nov-15	4934
00/14-04-002-29W1/0	Dec-15	5189
00/14-08-002-29W1/0	Jan-15	5121
00/14-08-002-29W1/0	Feb-15	4380
00/14-08-002-29W1/0	Mar-15	2938
00/14-08-002-29W1/0	Aug-15	

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
00/14-08-002-29W1/0	Sep-15	1379
00/14-08-002-29W1/0	Oct-15	4800
00/14-08-002-29W1/0	Nov-15	4934
00/14-08-002-29W1/0	Dec-15	5189
00/14-09-002-29W1/0	Jan-15	5121
00/14-09-002-29W1/0	Feb-15	4380
00/14-09-002-29W1/0	Mar-15	2938
00/14-09-002-29W1/0	Aug-15	
00/14-09-002-29W1/0	Sep-15	1379
00/14-09-002-29W1/0	Oct-15	4800
00/14-09-002-29W1/0	Nov-15	4934
00/14-09-002-29W1/0	Dec-15	5189
00/14-17-002-29W1/0	Jan-15	5121
00/14-17-002-29W1/0	Feb-15	4380
00/14-17-002-29W1/0	Mar-15	2938
00/14-17-002-29W1/0	Aug-15	
00/14-17-002-29W1/0	Sep-15	1379
00/14-17-002-29W1/0	Oct-15	4800
00/14-17-002-29W1/0	Nov-15	4934
00/14-17-002-29W1/0	Dec-15	5189
00/16-04-002-29W1/0	Jan-15	5121
00/16-04-002-29W1/0	Feb-15	4380
00/16-04-002-29W1/0	Mar-15	2938
00/16-04-002-29W1/0	Aug-15	
00/16-04-002-29W1/0	Sep-15	1379
00/16-04-002-29W1/0	Oct-15	4800
00/16-04-002-29W1/0	Nov-15	4934
00/16-04-002-29W1/0	Dec-15	5189
00/16-05-002-29W1/0	Jan-15	5121
00/16-05-002-29W1/0	Feb-15	4380
00/16-05-002-29W1/0	Mar-15	2938
00/16-05-002-29W1/0	Aug-15	
00/16-05-002-29W1/0	Sep-15	1379
00/16-05-002-29W1/0	Oct-15	4800
00/16-05-002-29W1/0	Nov-15	4934
00/16-05-002-29W1/0	Dec-15	5189
00/16-08-002-29W1/0	Jan-15	5121
00/16-08-002-29W1/0	Feb-15	4380
00/16-08-002-29W1/0	Mar-15	2938
00/16-08-002-29W1/0	Aug-15	
00/16-08-002-29W1/0	Sep-15	1379
00/16-08-002-29W1/0	Oct-15	4800
00/16-08-002-29W1/0	Nov-15	4934
00/16-08-002-29W1/0	Dec-15	5189

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
00/16-09-002-29W1/0	Jan-15	5121
00/16-09-002-29W1/0	Feb-15	4380
00/16-09-002-29W1/0	Mar-15	2938
00/16-09-002-29W1/0	Aug-15	
00/16-09-002-29W1/0	Sep-15	1379
00/16-09-002-29W1/0	Oct-15	4800
00/16-09-002-29W1/0	Nov-15	4934
00/16-09-002-29W1/0	Dec-15	5189
00/16-18-002-29W1/0	Jan-15	5121
00/16-18-002-29W1/0	Feb-15	4380
00/16-18-002-29W1/0	Mar-15	2938
00/16-18-002-29W1/0	Aug-15	
00/16-18-002-29W1/0	Sep-15	1379
00/16-18-002-29W1/0	Oct-15	4800
00/16-18-002-29W1/0	Nov-15	4934
00/16-18-002-29W1/0	Dec-15	5189
02/08-09-002-29W1/0	Jan-15	5121
02/08-09-002-29W1/0	Feb-15	4380
02/08-09-002-29W1/0	Mar-15	2938
02/08-09-002-29W1/0	Aug-15	
02/08-09-002-29W1/0	Sep-15	1379
02/08-09-002-29W1/0	Oct-15	4800
02/08-09-002-29W1/0	Nov-15	4934
02/08-09-002-29W1/0	Dec-15	5189
02/10-16-002-29W1/0	Jan-15	5121
02/10-16-002-29W1/0	Feb-15	4380
02/10-16-002-29W1/0	Mar-15	2938
02/10-16-002-29W1/0	Aug-15	
02/10-16-002-29W1/0	Sep-15	1379
02/10-16-002-29W1/0	Oct-15	4800
02/10-16-002-29W1/0	Nov-15	4934
02/10-16-002-29W1/0	Dec-15	5189
02/12-09-002-29W1/0	Jan-15	5121
02/12-09-002-29W1/0	Feb-15	4380
02/12-09-002-29W1/0	Mar-15	2938
02/12-09-002-29W1/0	Aug-15	
02/12-09-002-29W1/0	Sep-15	1379
02/12-09-002-29W1/0	Oct-15	4800
02/12-09-002-29W1/0	Nov-15	4934
02/12-09-002-29W1/0	Dec-15	5189
02/12-16-002-29W1/0	Jan-15	5121
02/12-16-002-29W1/0	Feb-15	4380
02/12-16-002-29W1/0	Mar-15	2938
02/12-16-002-29W1/0	Aug-15	

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
02/12-16-002-29W1/0	Sep-15	1379
02/12-16-002-29W1/0	Oct-15	4800
02/12-16-002-29W1/0	Nov-15	4934
02/12-16-002-29W1/0	Dec-15	5189
02/16-09-002-29W1/0	Jan-15	5121
02/16-09-002-29W1/0	Feb-15	4380
02/16-09-002-29W1/0	Mar-15	2938
02/16-09-002-29W1/0	Aug-15	
02/16-09-002-29W1/0	Sep-15	1379
02/16-09-002-29W1/0	Oct-15	4800
02/16-09-002-29W1/0	Nov-15	4934
02/16-09-002-29W1/0	Dec-15	5189
03/15-16-002-29W1/0	Jan-15	5121
03/15-16-002-29W1/0	Feb-15	4380
03/15-16-002-29W1/0	Mar-15	2938
03/15-16-002-29W1/0	Aug-15	
03/15-16-002-29W1/0	Sep-15	1379
03/15-16-002-29W1/0	Oct-15	4800
03/15-16-002-29W1/0	Nov-15	4934
03/15-16-002-29W1/0	Dec-15	5189
03/16-09-002-29W1/0	Jan-15	5121
03/16-09-002-29W1/0	Feb-15	4380
03/16-09-002-29W1/0	Mar-15	2938
03/16-09-002-29W1/0	Aug-15	
03/16-09-002-29W1/0	Sep-15	1379
03/16-09-002-29W1/0	Oct-15	4800
03/16-09-002-29W1/0	Nov-15	4934
03/16-09-002-29W1/0	Dec-15	5189
B0/02-17-002-29W1/0	Jan-15	5121
B0/02-17-002-29W1/0	Feb-15	4380
B0/02-17-002-29W1/0	Mar-15	2938
B0/02-17-002-29W1/0	Aug-15	
B0/02-17-002-29W1/0	Sep-15	1379
B0/02-17-002-29W1/0	Oct-15	4800
B0/02-17-002-29W1/0	Nov-15	4934
B0/02-17-002-29W1/0	Dec-15	5189
B0/04-16-002-29W1/0	Jan-15	5121
B0/04-16-002-29W1/0	Feb-15	4380
B0/04-16-002-29W1/0	Mar-15	2938
B0/04-16-002-29W1/0	Aug-15	
B0/04-16-002-29W1/0	Sep-15	1379
B0/04-16-002-29W1/0	Oct-15	4800
B0/04-16-002-29W1/0	Nov-15	4934
B0/04-16-002-29W1/0	Dec-15	5189

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
B0/06-09-002-29W1/0	Jan-15	5121
B0/06-09-002-29W1/0	Feb-15	4380
B0/06-09-002-29W1/0	Mar-15	2938
B0/06-09-002-29W1/0	Aug-15	
B0/06-09-002-29W1/0	Sep-15	1379
B0/06-09-002-29W1/0	Oct-15	4800
B0/06-09-002-29W1/0	Nov-15	4934
B0/06-09-002-29W1/0	Dec-15	5189
B0/06-16-002-29W1/0	Jan-15	5121
B0/06-16-002-29W1/0	Feb-15	4380
B0/06-16-002-29W1/0	Mar-15	2938
B0/06-16-002-29W1/0	Aug-15	
B0/06-16-002-29W1/0	Sep-15	1379
B0/06-16-002-29W1/0	Oct-15	4800
B0/06-16-002-29W1/0	Nov-15	4934
B0/06-16-002-29W1/0	Dec-15	5189
B0/08-09-002-29W1/0	Jan-15	5121
B0/08-09-002-29W1/0	Feb-15	4380
B0/08-09-002-29W1/0	Mar-15	2938
B0/08-09-002-29W1/0	Aug-15	
B0/08-09-002-29W1/0	Sep-15	1379
B0/08-09-002-29W1/0	Oct-15	4800
B0/08-09-002-29W1/0	Nov-15	4934
B0/08-09-002-29W1/0	Dec-15	5189
B0/08-16-002-29W1/0	Jan-15	5121
B0/08-16-002-29W1/0	Feb-15	4380
B0/08-16-002-29W1/0	Mar-15	2938
B0/08-16-002-29W1/0	Aug-15	
B0/08-16-002-29W1/0	Sep-15	1379
B0/08-16-002-29W1/0	Oct-15	4800
B0/08-16-002-29W1/0	Nov-15	4934
B0/08-16-002-29W1/0	Dec-15	5189
B0/12-17-002-29W1/0	Jan-15	5121
B0/12-17-002-29W1/0	Feb-15	4380
B0/12-17-002-29W1/0	Mar-15	2938
B0/12-17-002-29W1/0	Aug-15	
B0/12-17-002-29W1/0	Sep-15	1379
B0/12-17-002-29W1/0	Oct-15	4800
B0/12-17-002-29W1/0	Nov-15	4934
B0/12-17-002-29W1/0	Dec-15	5189
B0/14-04-002-29W1/0	Jan-15	5121
B0/14-04-002-29W1/0	Feb-15	4380
B0/14-04-002-29W1/0	Mar-15	2938
B0/14-04-002-29W1/0	Aug-15	

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
B0/14-04-002-29W1/0	Sep-15	1379
B0/14-04-002-29W1/0	Oct-15	4800
B0/14-04-002-29W1/0	Nov-15	4934
B0/14-04-002-29W1/0	Dec-15	5189
B0/14-08-002-29W1/0	Jan-15	5121
B0/14-08-002-29W1/0	Feb-15	4380
B0/14-08-002-29W1/0	Mar-15	2938
B0/14-08-002-29W1/0	Aug-15	
B0/14-08-002-29W1/0	Sep-15	1379
B0/14-08-002-29W1/0	Oct-15	4800
B0/14-08-002-29W1/0	Nov-15	4934
B0/14-08-002-29W1/0	Dec-15	5189
B0/16-17-002-29W1/0	Jan-15	5121
B0/16-17-002-29W1/0	Feb-15	4380
B0/16-17-002-29W1/0	Mar-15	2938
B0/16-17-002-29W1/0	Aug-15	
B0/16-17-002-29W1/0	Sep-15	1379
B0/16-17-002-29W1/0	Oct-15	4800
B0/16-17-002-29W1/0	Nov-15	4934
B0/16-17-002-29W1/0	Dec-15	5189
C0/05-16-002-29W1/0	Jan-15	5121
C0/05-16-002-29W1/0	Feb-15	4380
C0/05-16-002-29W1/0	Mar-15	2938
C0/05-16-002-29W1/0	Aug-15	
C0/05-16-002-29W1/0	Sep-15	1379
C0/05-16-002-29W1/0	Oct-15	4800
C0/05-16-002-29W1/0	Nov-15	4934
C0/05-16-002-29W1/0	Dec-15	5189
C0/11-16-002-29W1/0	Jan-15	5121
C0/11-16-002-29W1/0	Feb-15	4380
C0/11-16-002-29W1/0	Mar-15	2938
C0/11-16-002-29W1/0	Aug-15	
C0/11-16-002-29W1/0	Sep-15	1379
C0/11-16-002-29W1/0	Oct-15	4800
C0/11-16-002-29W1/0	Nov-15	4934
C0/11-16-002-29W1/0	Dec-15	5189
C0/15-04-002-29W1/0	Jan-15	5121
C0/15-04-002-29W1/0	Feb-15	4380
C0/15-04-002-29W1/0	Mar-15	2938
C0/15-04-002-29W1/0	Aug-15	
C0/15-04-002-29W1/0	Sep-15	1379
C0/15-04-002-29W1/0	Oct-15	4800
C0/15-04-002-29W1/0	Nov-15	4934
C0/15-04-002-29W1/0	Dec-15	5189

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
C2/07-16-002-29W1/0	Jan-15	5121
C2/07-16-002-29W1/0	Feb-15	4380
C2/07-16-002-29W1/0	Mar-15	2938
C2/07-16-002-29W1/0	Aug-15	
C2/07-16-002-29W1/0	Sep-15	1379
C2/07-16-002-29W1/0	Oct-15	4800
C2/07-16-002-29W1/0	Nov-15	4934
C2/07-16-002-29W1/0	Dec-15	5189
D0/02-09-002-29W1/0	Jan-15	5121
D0/02-09-002-29W1/0	Feb-15	4380
D0/02-09-002-29W1/0	Mar-15	2938
D0/02-09-002-29W1/0	Aug-15	
D0/02-09-002-29W1/0	Sep-15	1379
D0/02-09-002-29W1/0	Oct-15	4800
D0/02-09-002-29W1/0	Nov-15	4934
D0/02-09-002-29W1/0	Dec-15	5189
D0/02-17-002-29W1/0	Jan-15	5121
D0/02-17-002-29W1/0	Feb-15	4380
D0/02-17-002-29W1/0	Mar-15	2938
D0/02-17-002-29W1/0	Aug-15	
D0/02-17-002-29W1/0	Sep-15	1379
D0/02-17-002-29W1/0	Oct-15	4800
D0/02-17-002-29W1/0	Nov-15	4934
D0/02-17-002-29W1/0	Dec-15	5189
D0/04-09-002-29W1/0	Jan-15	5121
D0/04-09-002-29W1/0	Feb-15	4380
D0/04-09-002-29W1/0	Mar-15	2938
D0/04-09-002-29W1/0	Aug-15	
D0/04-09-002-29W1/0	Sep-15	1379
D0/04-09-002-29W1/0	Oct-15	4800
D0/04-09-002-29W1/0	Nov-15	4934
D0/04-09-002-29W1/0	Dec-15	5189
D0/04-17-002-29W1/0	Jan-15	5121
D0/04-17-002-29W1/0	Feb-15	4380
D0/04-17-002-29W1/0	Mar-15	2938
D0/04-17-002-29W1/0	Aug-15	
D0/04-17-002-29W1/0	Sep-15	1379
D0/04-17-002-29W1/0	Oct-15	4800
D0/04-17-002-29W1/0	Nov-15	4934
D0/04-17-002-29W1/0	Dec-15	5189
D0/06-09-002-29W1/0	Jan-15	5121
D0/06-09-002-29W1/0	Feb-15	4380
D0/06-09-002-29W1/0	Mar-15	2938
D0/06-09-002-29W1/0	Aug-15	

D0/16-05-002-29W1/0  
Monthly Wellhead Injection Pressure

Injection Well UWI	Date	Wellhead Inj Press kPa
D0/06-09-002-29W1/0	Sep-15	1379
D0/06-09-002-29W1/0	Oct-15	4800
D0/06-09-002-29W1/0	Nov-15	4934
D0/06-09-002-29W1/0	Dec-15	5189
D0/06-17-002-29W1/0	Jan-15	5121
D0/06-17-002-29W1/0	Feb-15	4380
D0/06-17-002-29W1/0	Mar-15	2938
D0/06-17-002-29W1/0	Aug-15	
D0/06-17-002-29W1/0	Sep-15	1379
D0/06-17-002-29W1/0	Oct-15	4800
D0/06-17-002-29W1/0	Nov-15	4934
D0/06-17-002-29W1/0	Dec-15	5189
D0/14-09-002-29W1/0	Jan-15	5121
D0/14-09-002-29W1/0	Feb-15	4380
D0/14-09-002-29W1/0	Mar-15	2938
D0/14-09-002-29W1/0	Aug-15	
D0/14-09-002-29W1/0	Sep-15	1379
D0/14-09-002-29W1/0	Oct-15	4800
D0/14-09-002-29W1/0	Nov-15	4934
D0/14-09-002-29W1/0	Dec-15	5189
D0/16-05-002-29W1/0	Jan-15	5121
D0/16-05-002-29W1/0	Feb-15	4380
D0/16-05-002-29W1/0	Mar-15	2938
D0/16-05-002-29W1/0	Aug-15	
D0/16-05-002-29W1/0	Sep-15	1379
D0/16-05-002-29W1/0	Oct-15	4800
D0/16-05-002-29W1/0	Nov-15	4934
D0/16-05-002-29W1/0	Dec-15	5189