

# Data set of mini-frac tests at the Bedretto Lab (SB boreholes)

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182150 - In situ stress variations near faults considering fault zone rock rheology - implications for reservoir stimulation and associated seismicity (SNF)

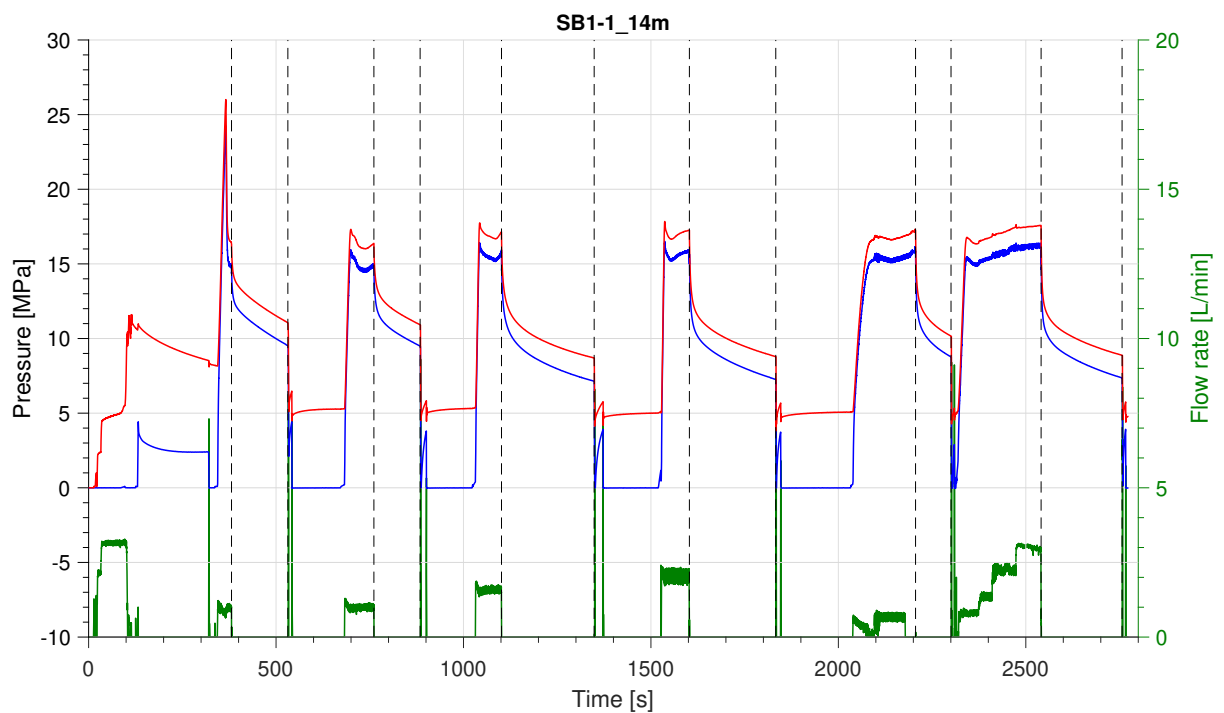
ETH-06 19-1 - Creating a hierarchy of fracture network in enhanced geothermal systems (EGS) through innovative hydraulic fracturing stimulation (ETHZ)

Date: 05.08.2021, v2

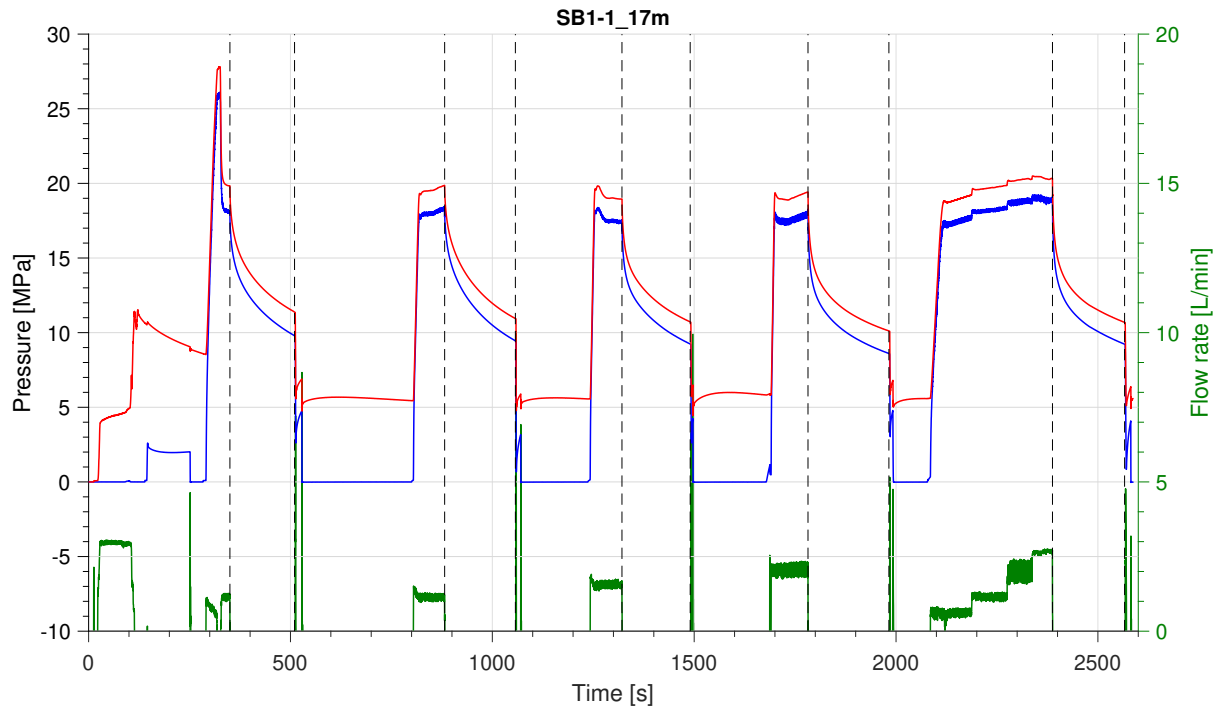
## 1 Injection protocols of mini-frac tests

The following figures show the injection protocols of the mini-frac tests in the four vertical SB boreholes (SB1.1, SB2.1, SB3.1, SB4.1). The packer pressure (red), interval pressure (blue) and flow rate (green) are shown. The hydrostatic pressure was not added to the pressure records, so all values are ‘uphole’/surface pressures.

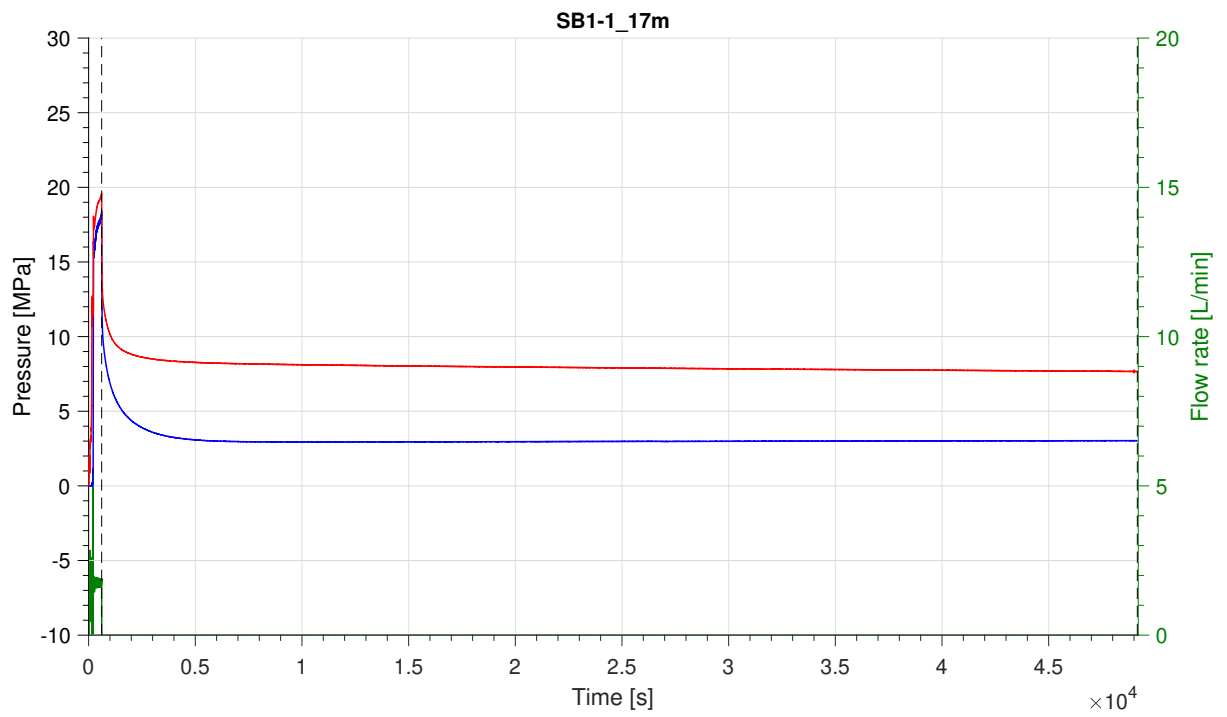
### 1.1 SB1.1



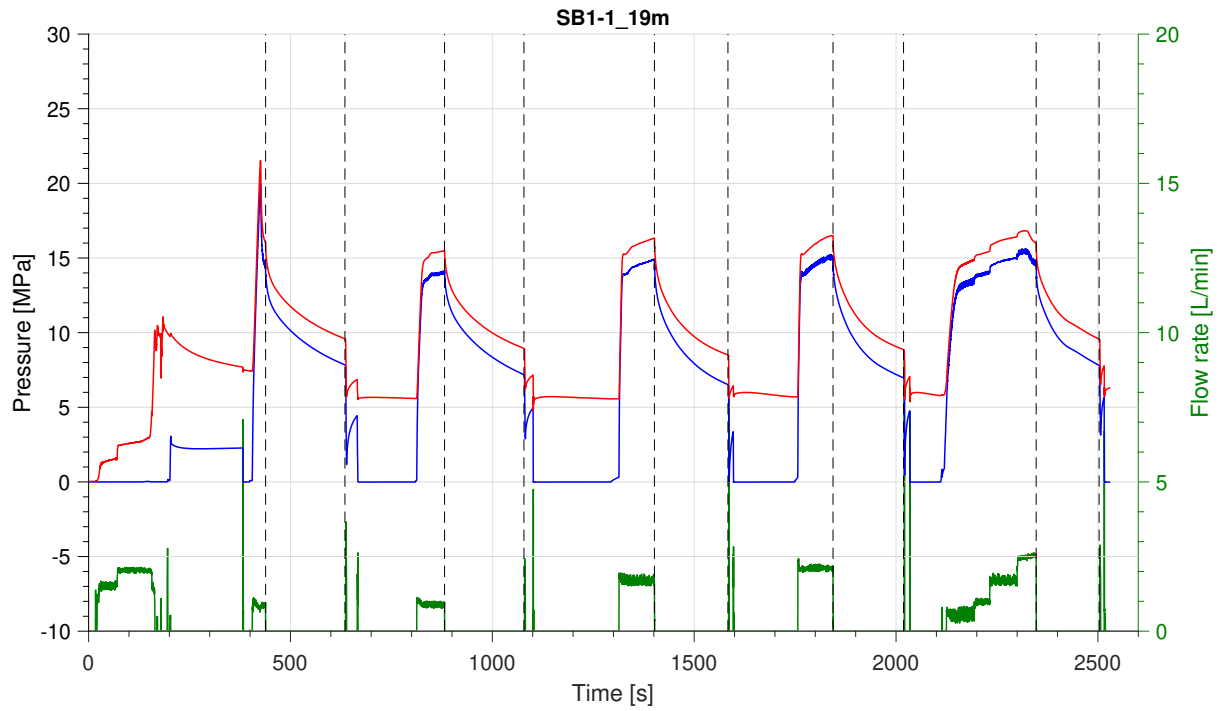
(a) SB1.1 mini-frac at 14.5 m



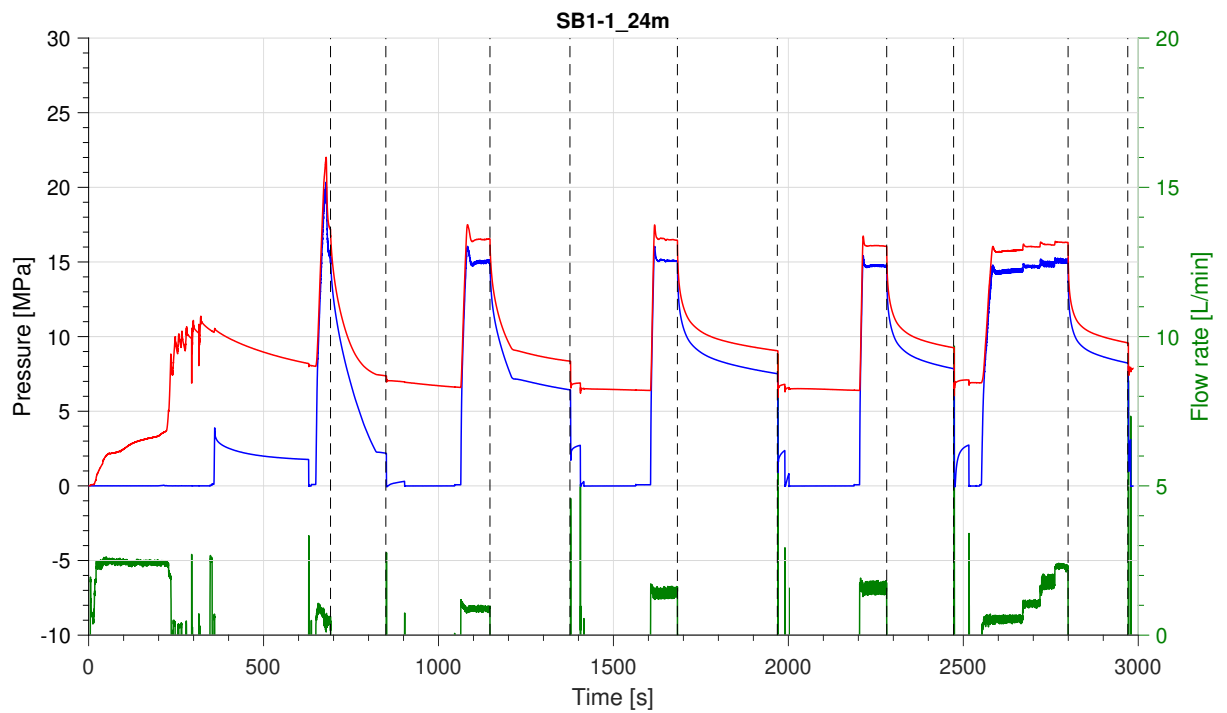
(b) SB1.1 mini-frac at 17.5 m a



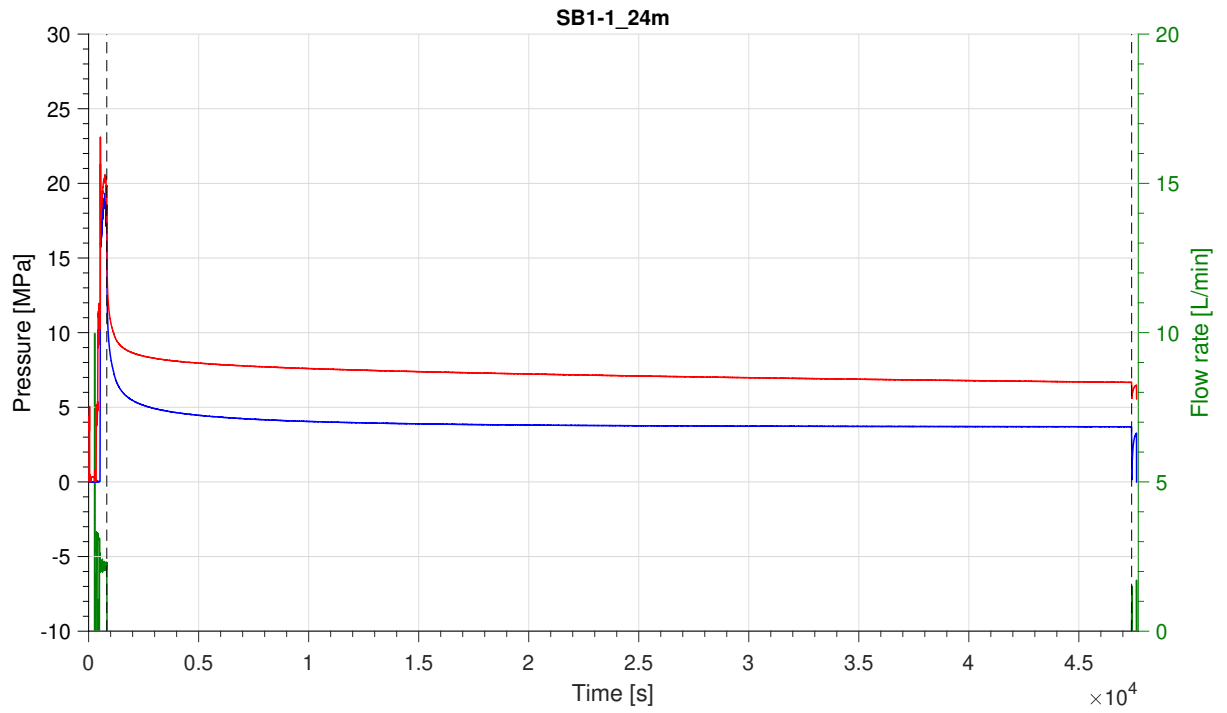
(c) SB1.1 mini-frac at 17.5 m b



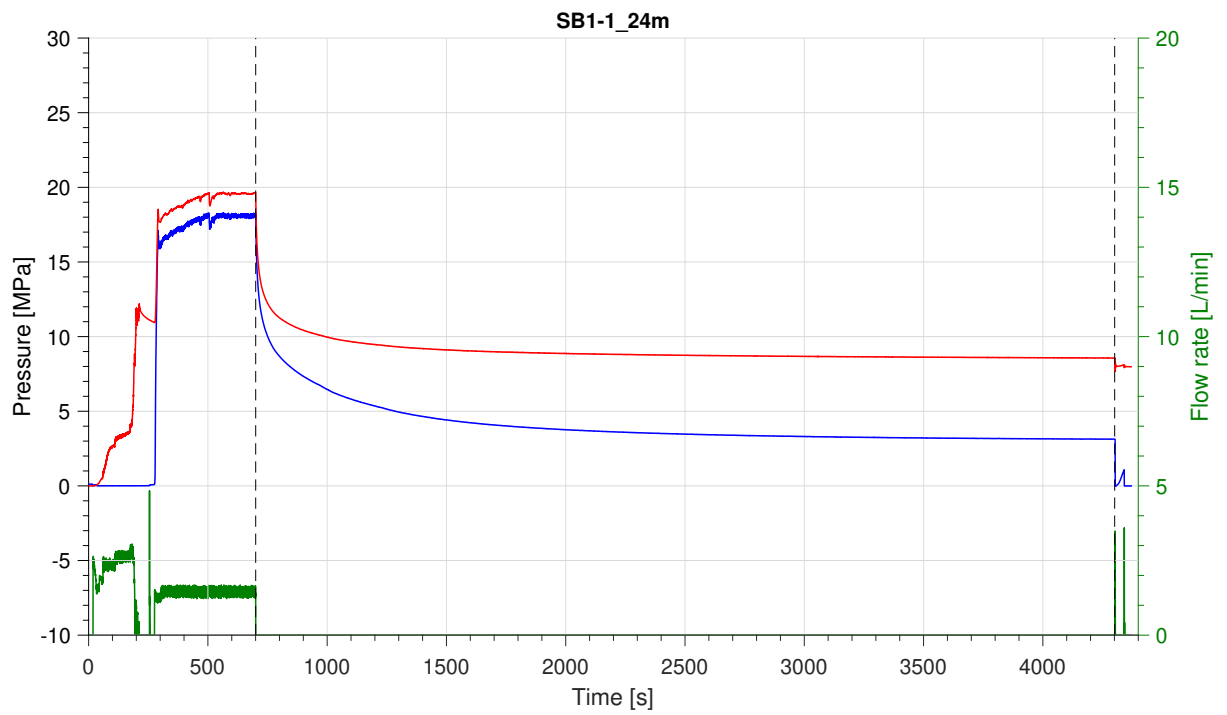
(d) SB1.1 mini-frac at 19.9 m



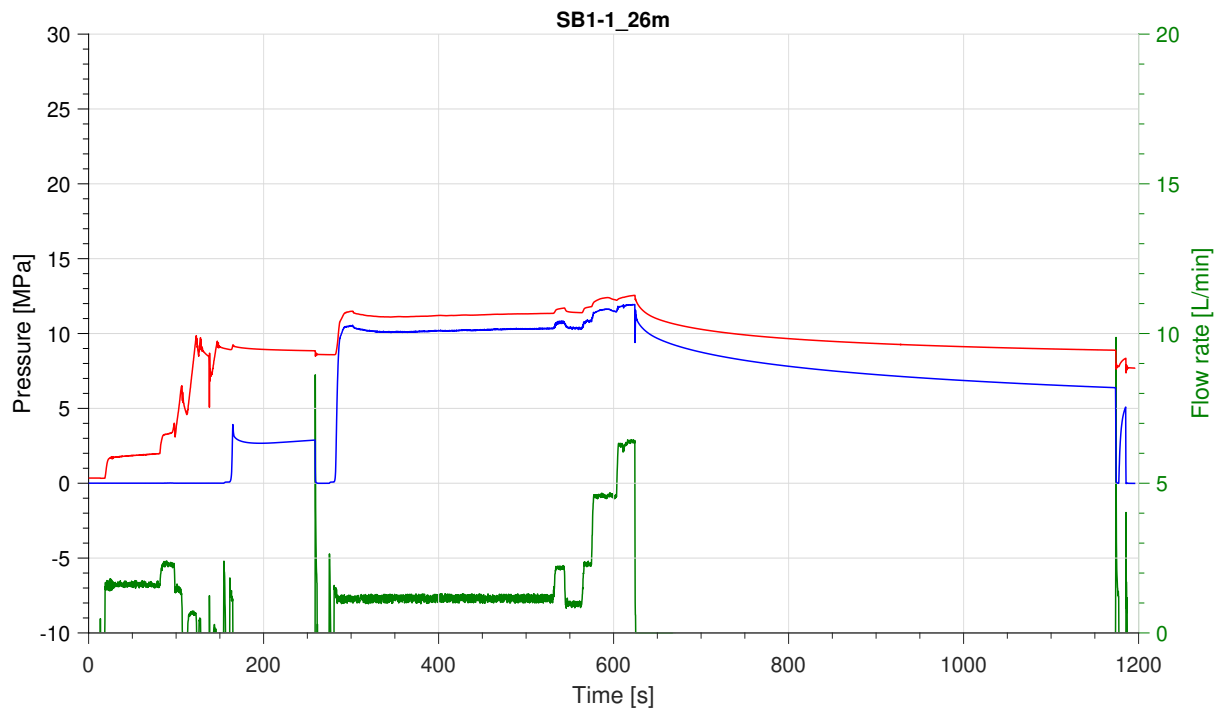
(e) SB1.1 mini-frac at 24.0 m a



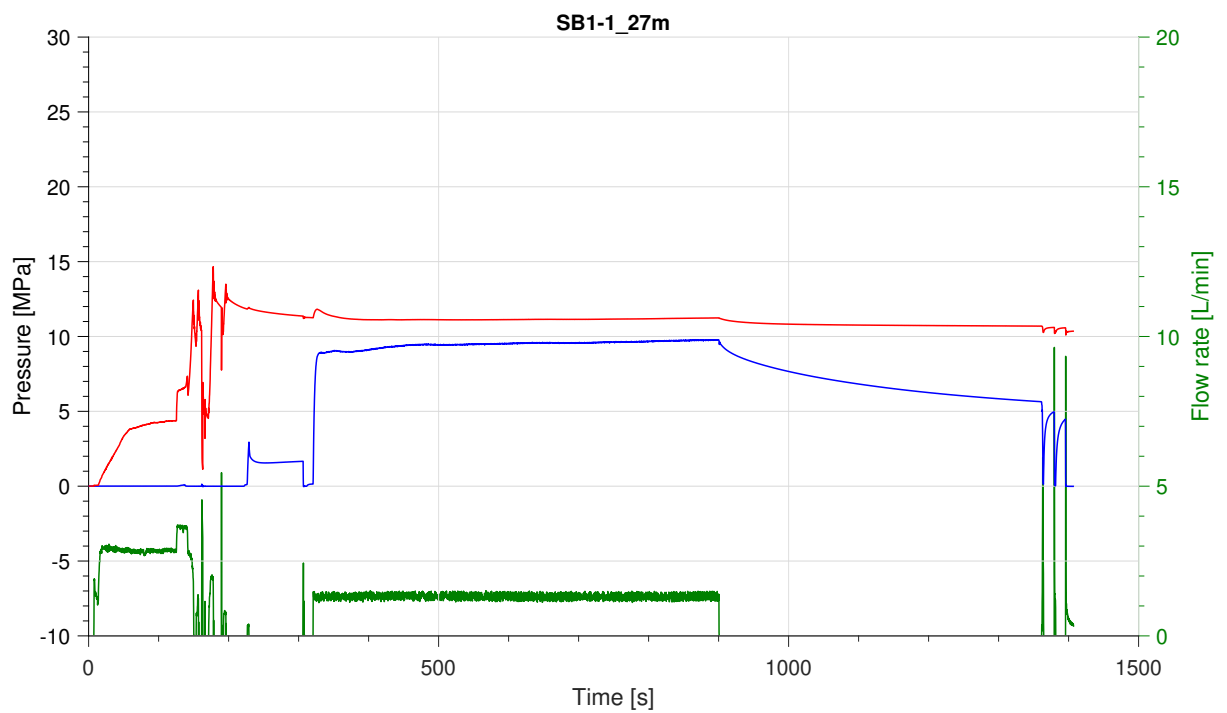
(f) SB1.1 mini-frac at 24.0 m b



(g) SB1.1 mini-frac at 24.0 m c

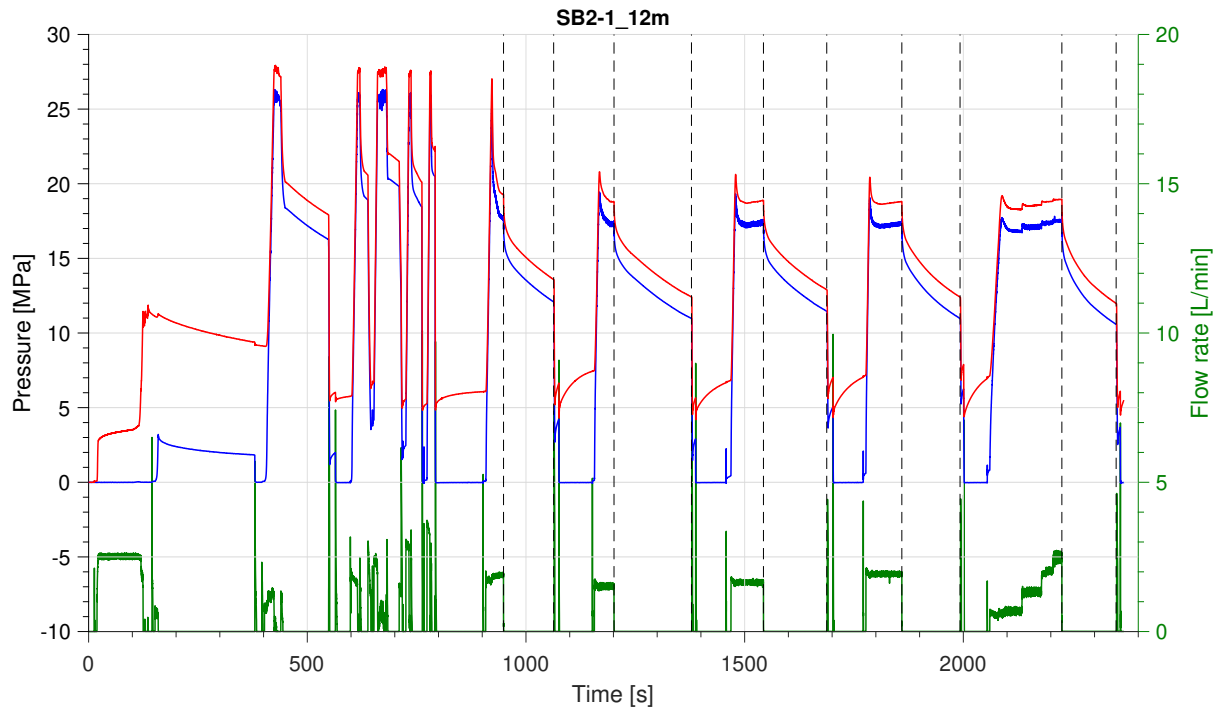


(h) SB1.1 mini-frac at 26.0 m (test abandoned)

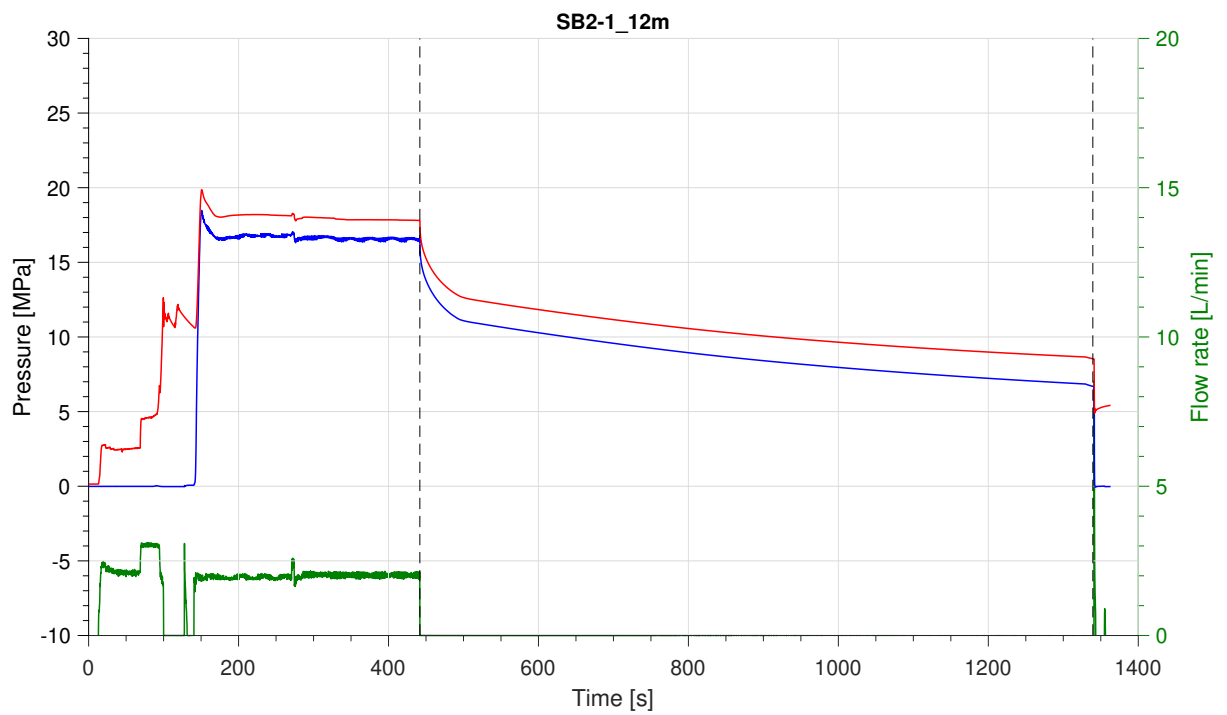


(i) SB1.1 mini-frac at 27.45 m (test abandoned)

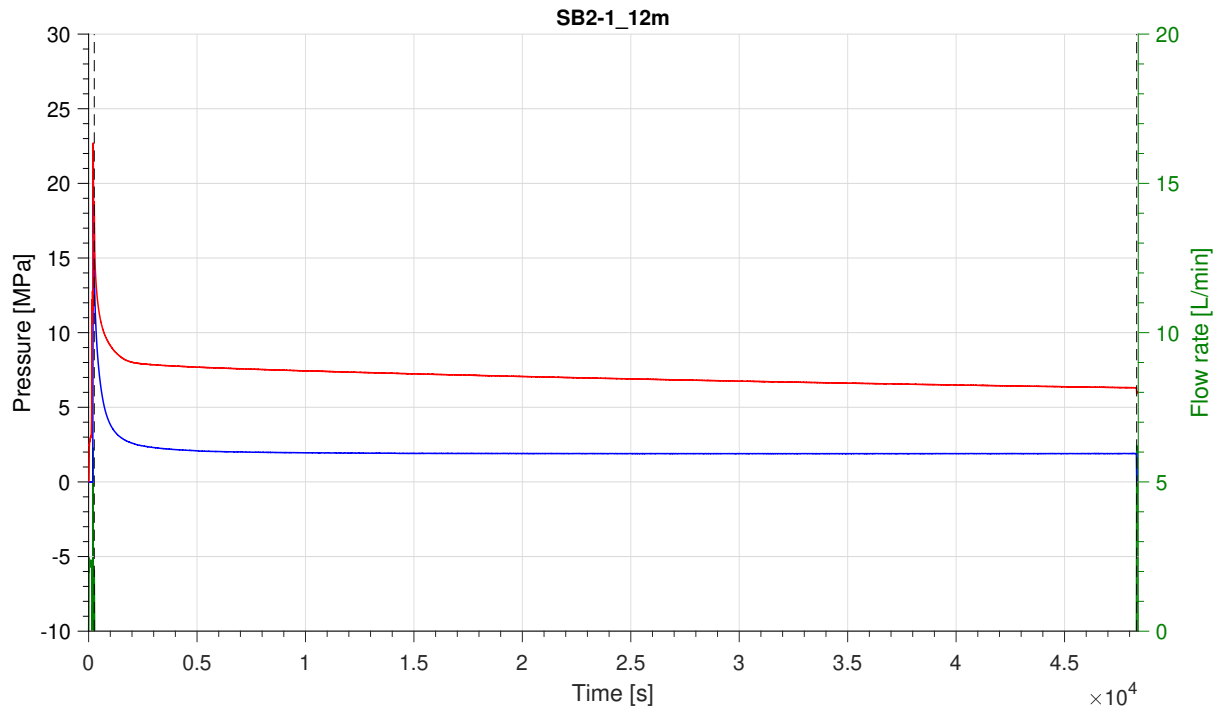
## 1.2 SB2.1



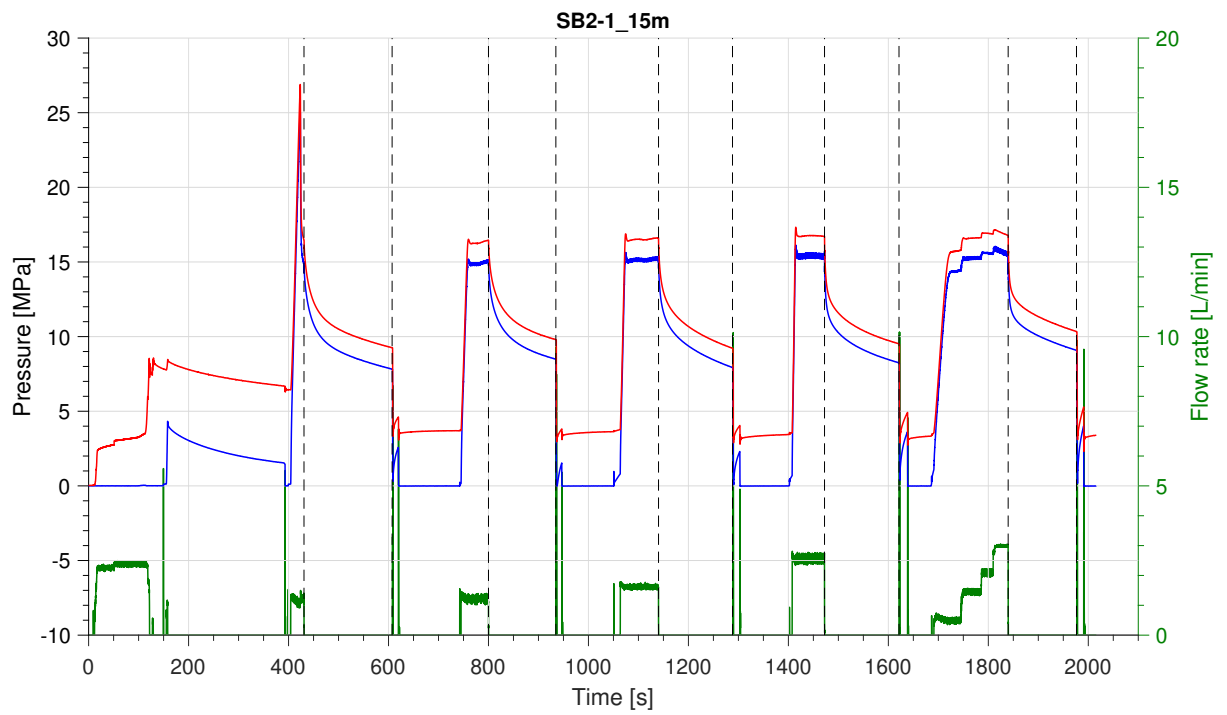
(a) SB2.1 mini-frac at 12.5 m a



(b) SB2.1 mini-frac at 12.5 m b

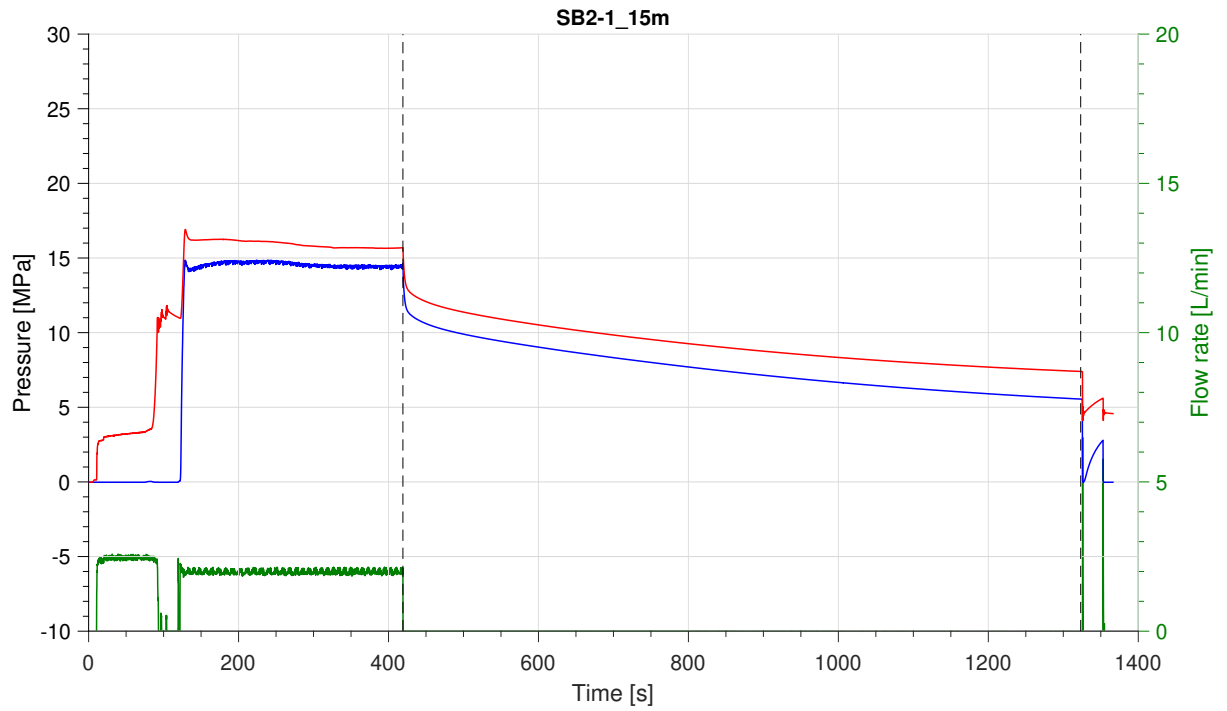


(c) SB2.1 mini-frac at 12.5 m c

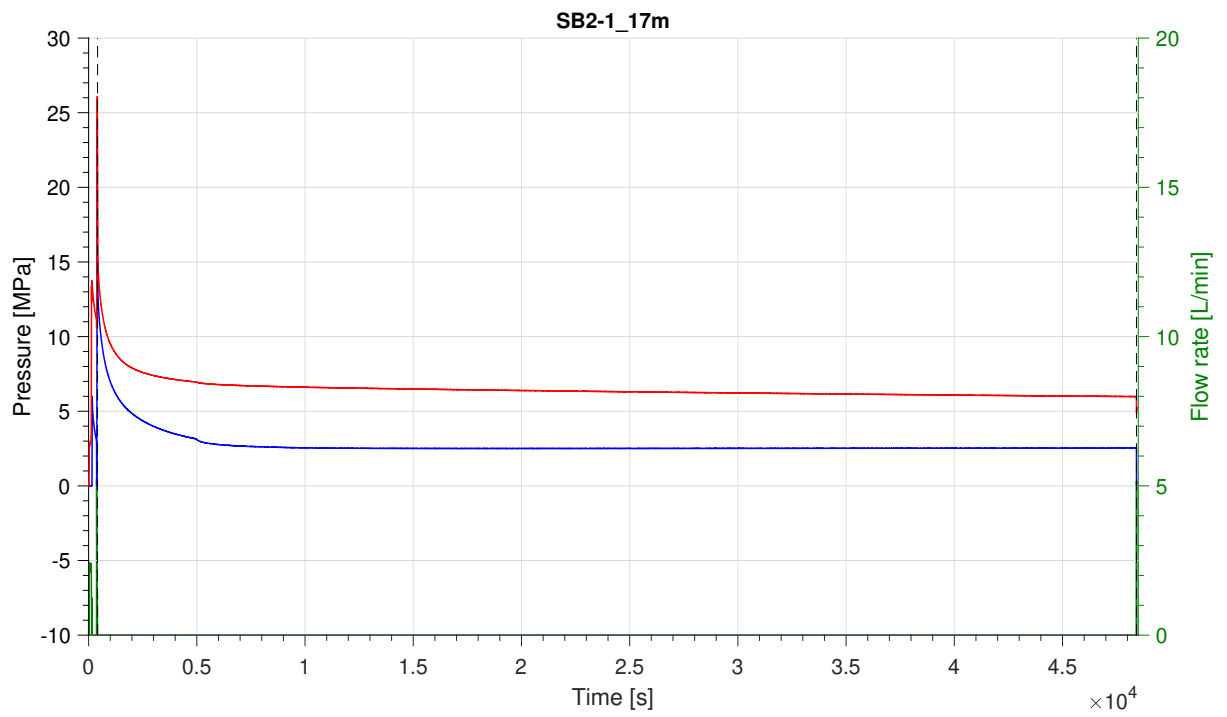


(d) SB2.1 mini-frac at 15.5 m a

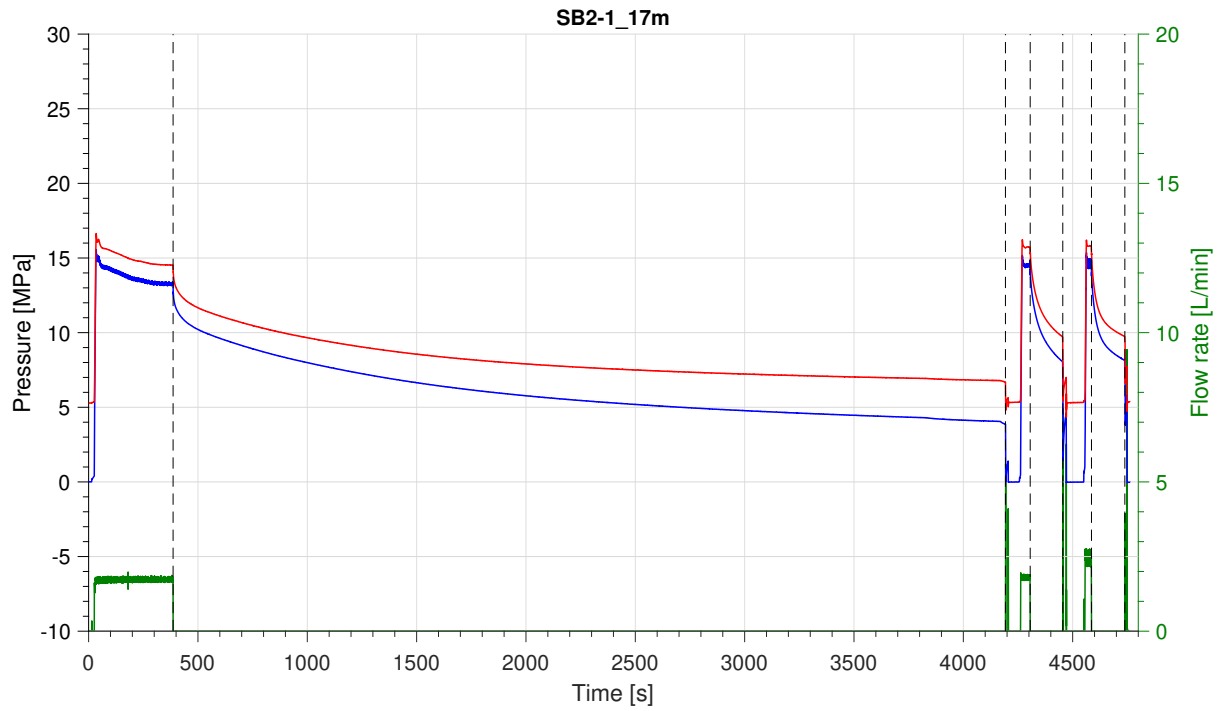




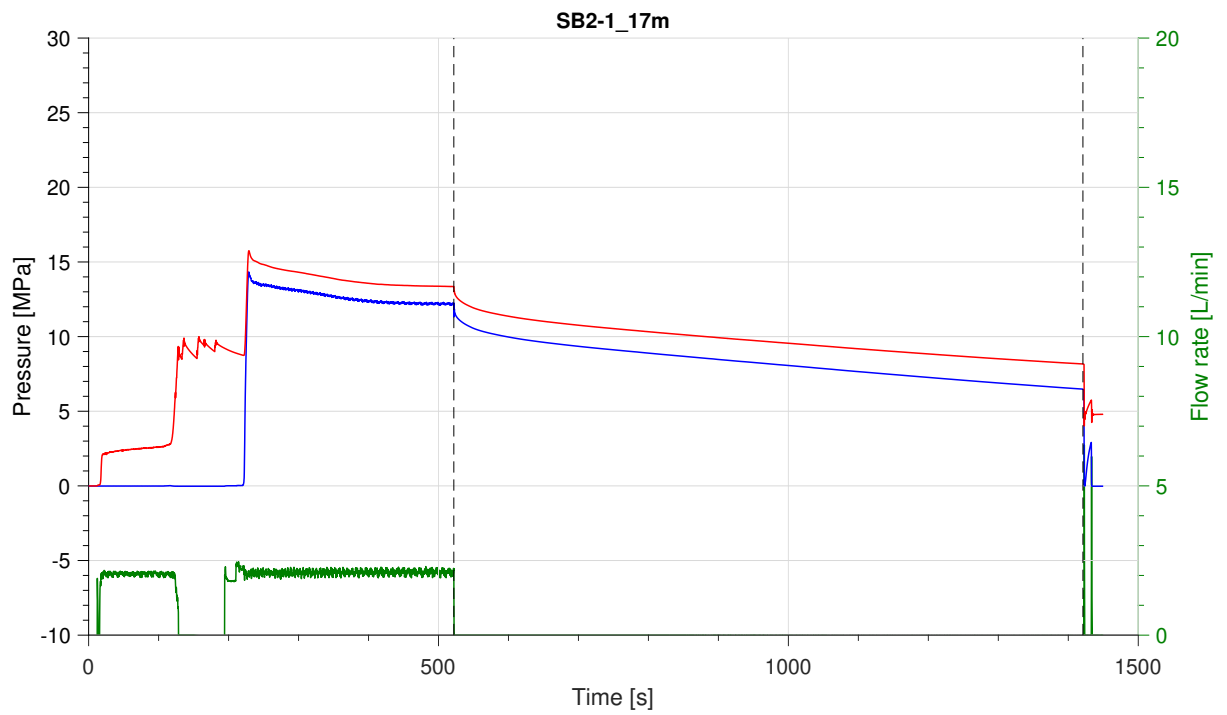
(e) SB2.1 mini-frac at 15.5 m b



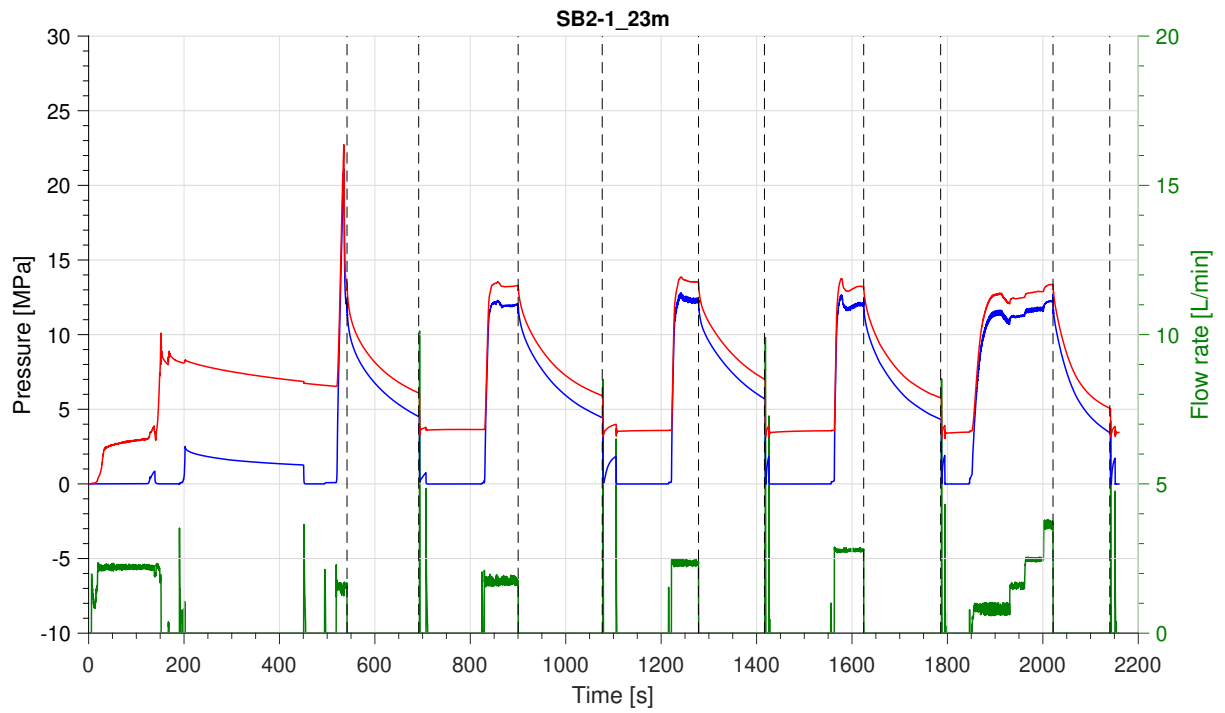
(f) SB2.1 mini-frac at 17.5 m a



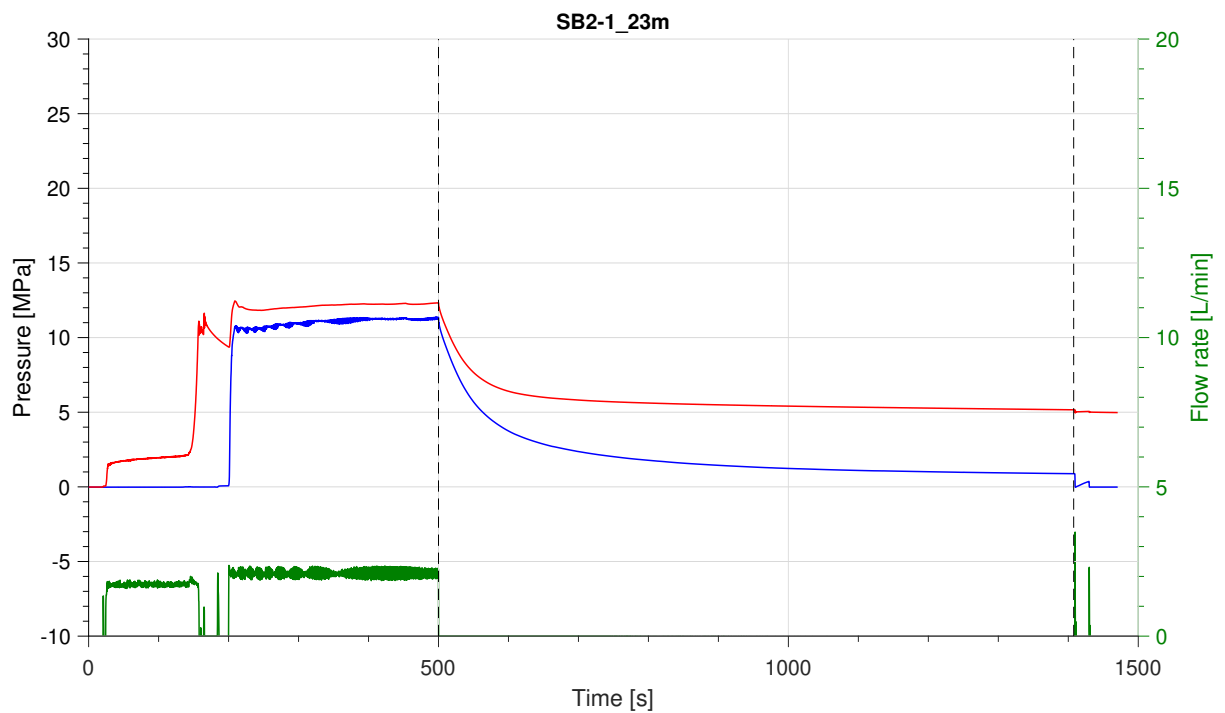
(g) SB2.1 mini-frac at 17.5 m b



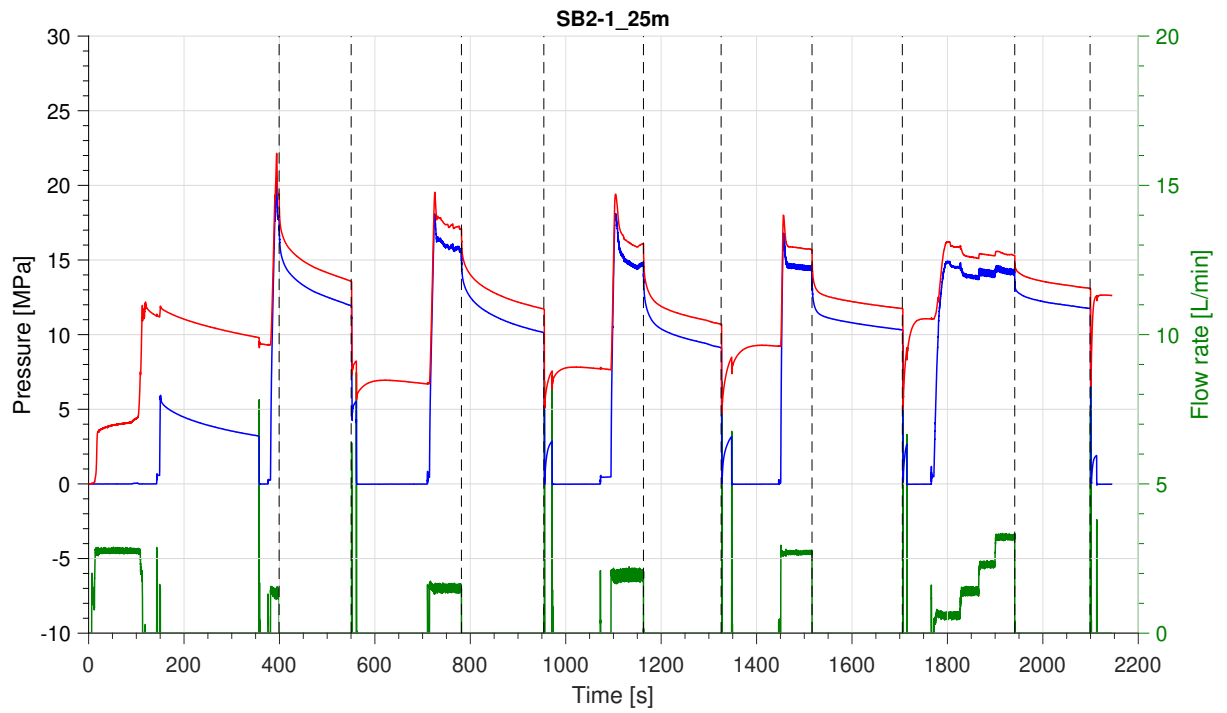
(h) SB2.1 mini-frac at 17.5 m c



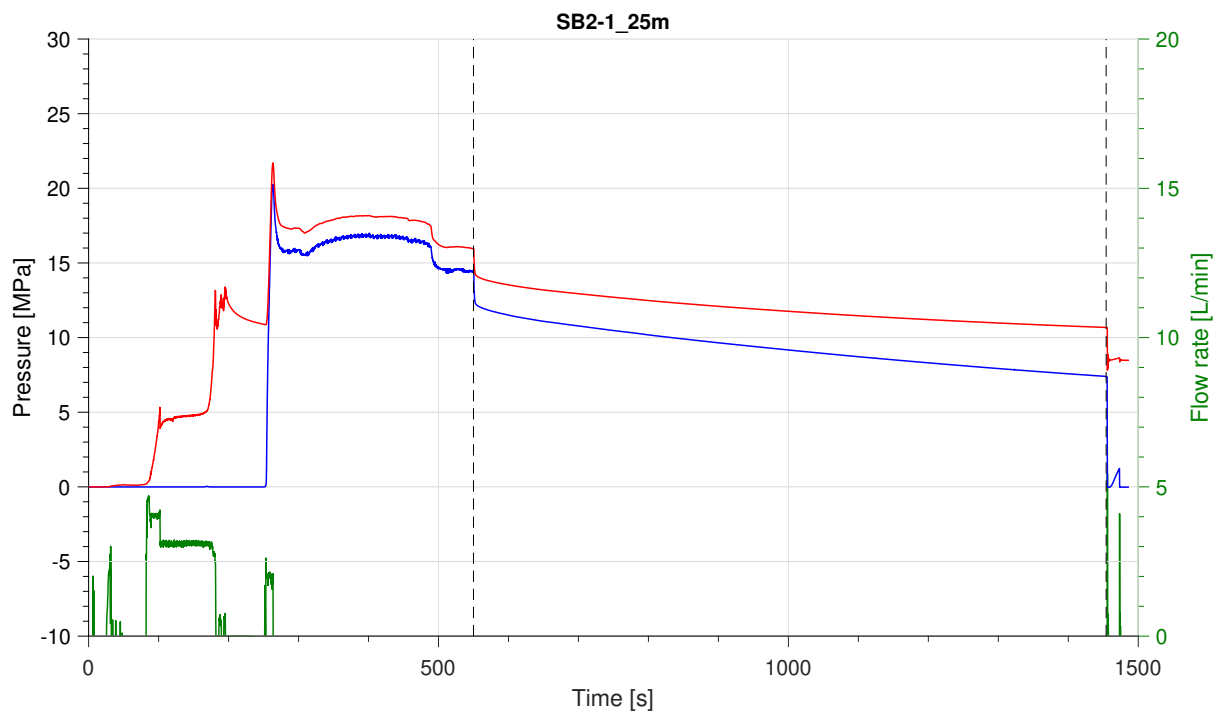
(i) SB2.1 mini-frac at 23.3 m a



(j) SB2.1 mini-frac at 23.3 m b

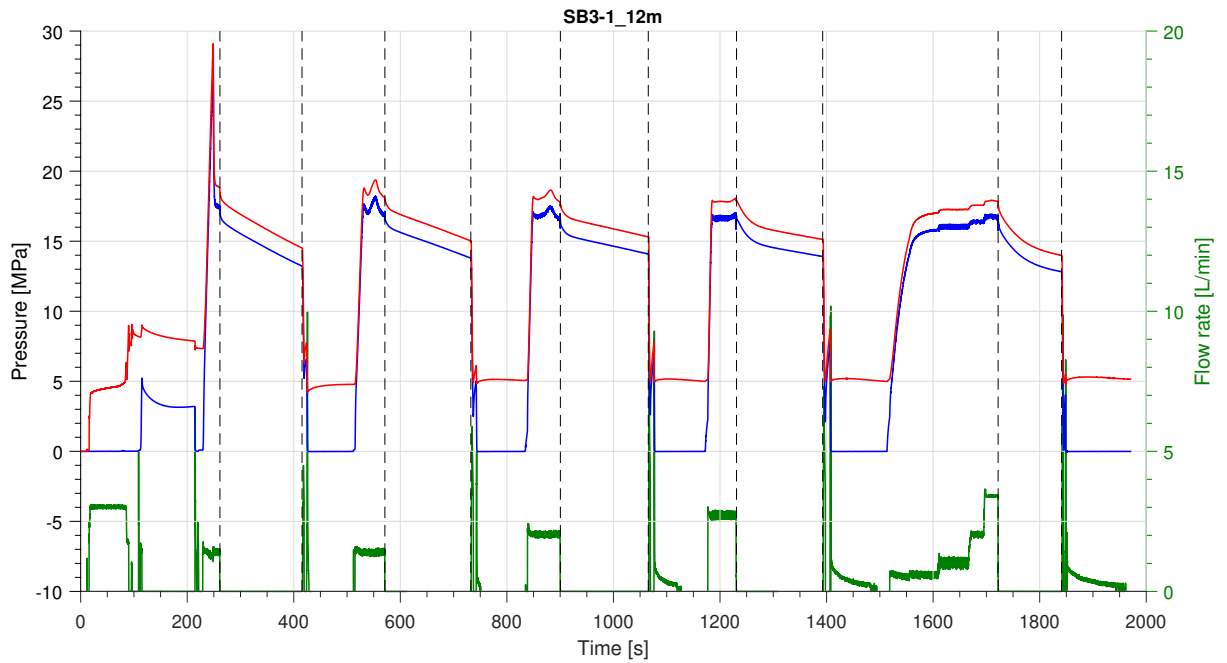


(k) SB2.1 mini-frac at 25.2 m a

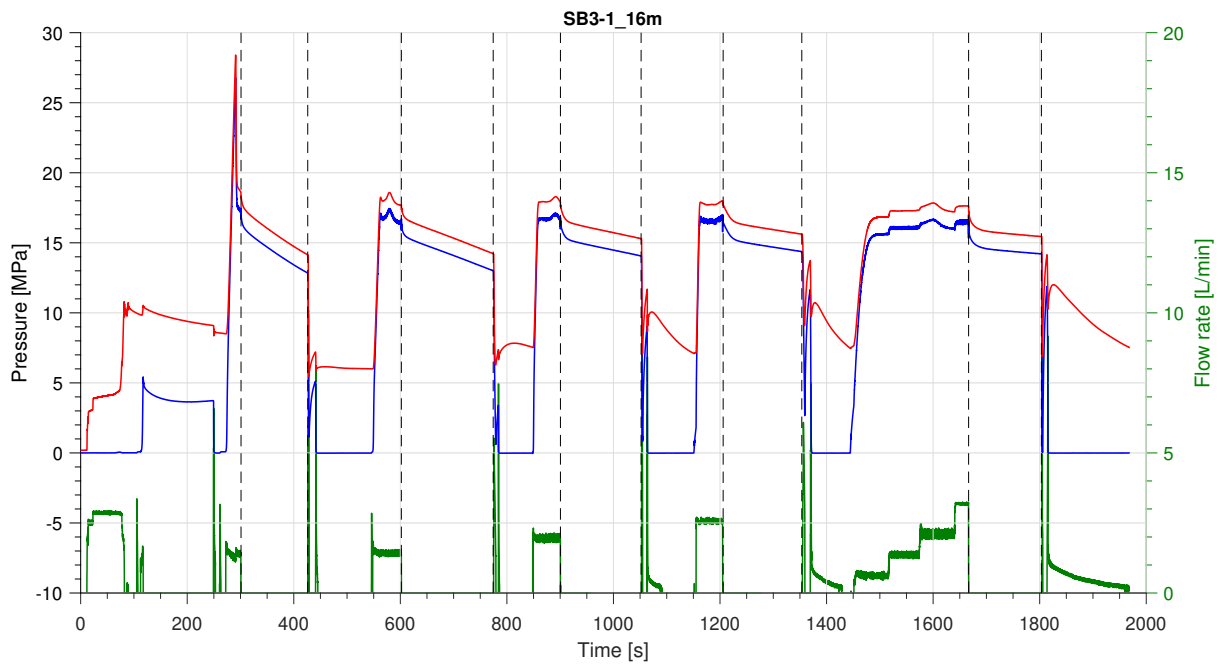


(l) SB2.1 mini-frac at 25.2 m b

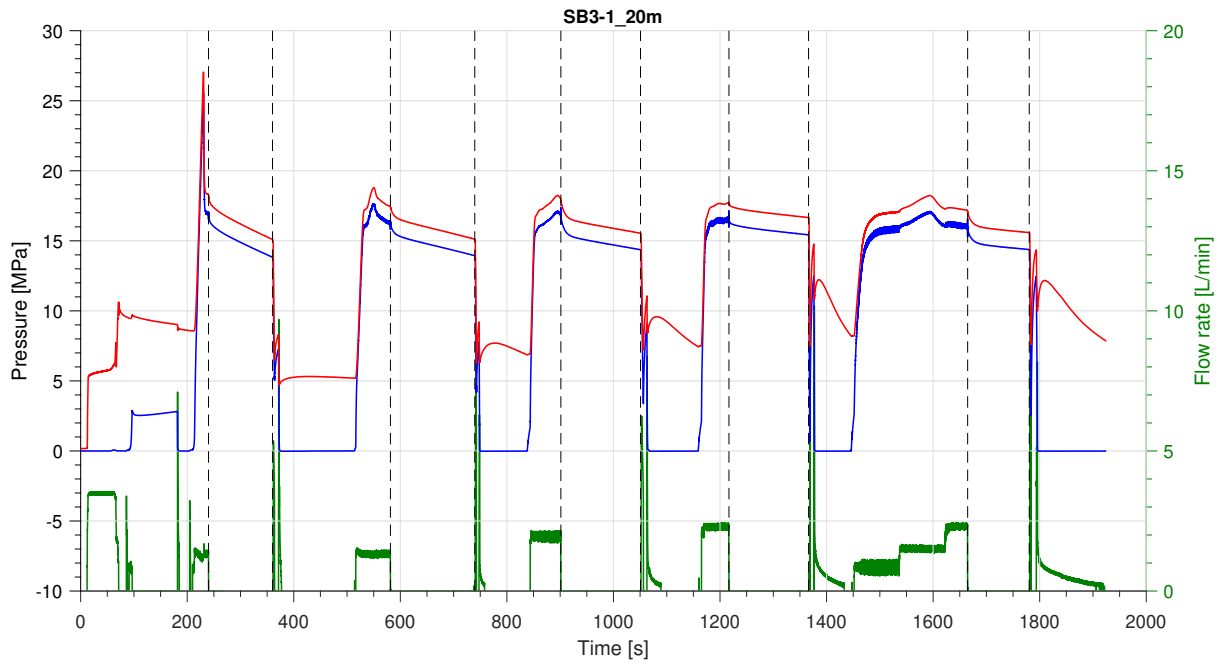
### 1.3 SB3.1



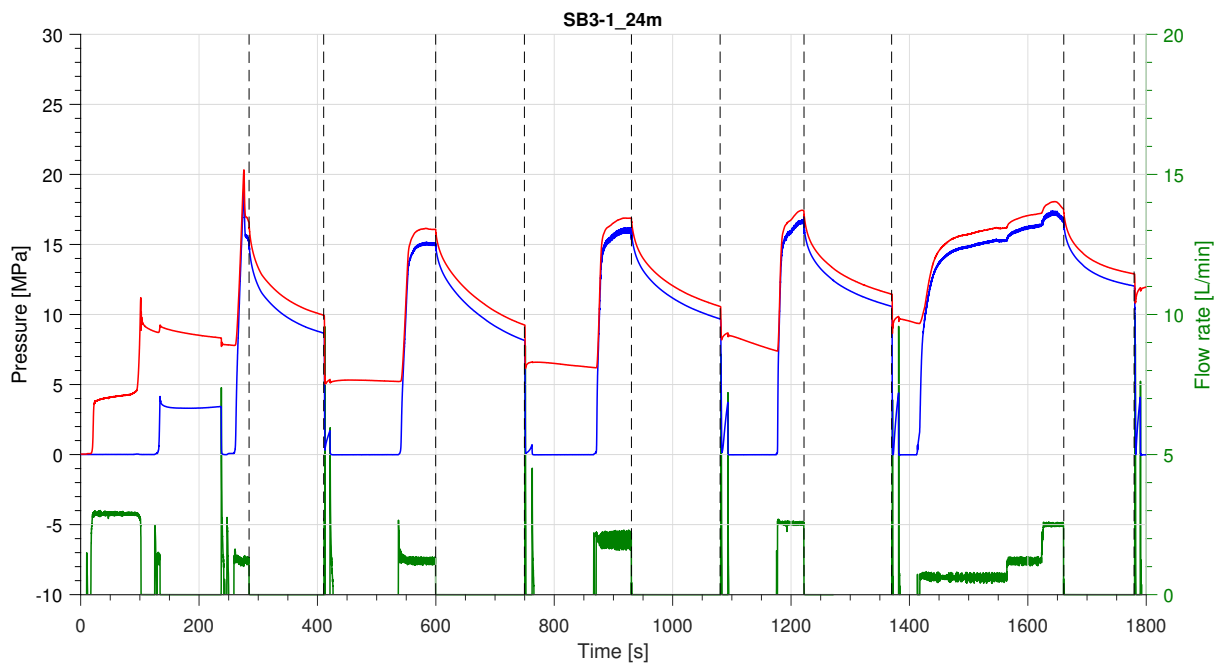
(a) SB3.1 mini-frac at 12.0 m



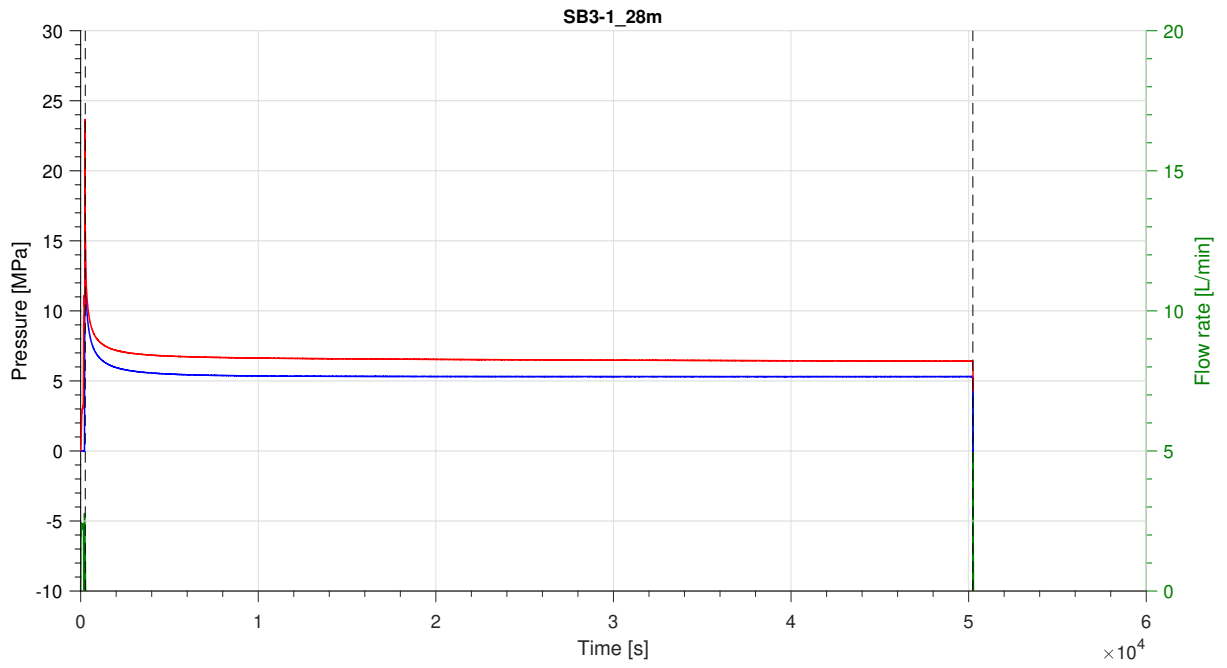
(b) SB3.1 mini-frac at 16.0 m



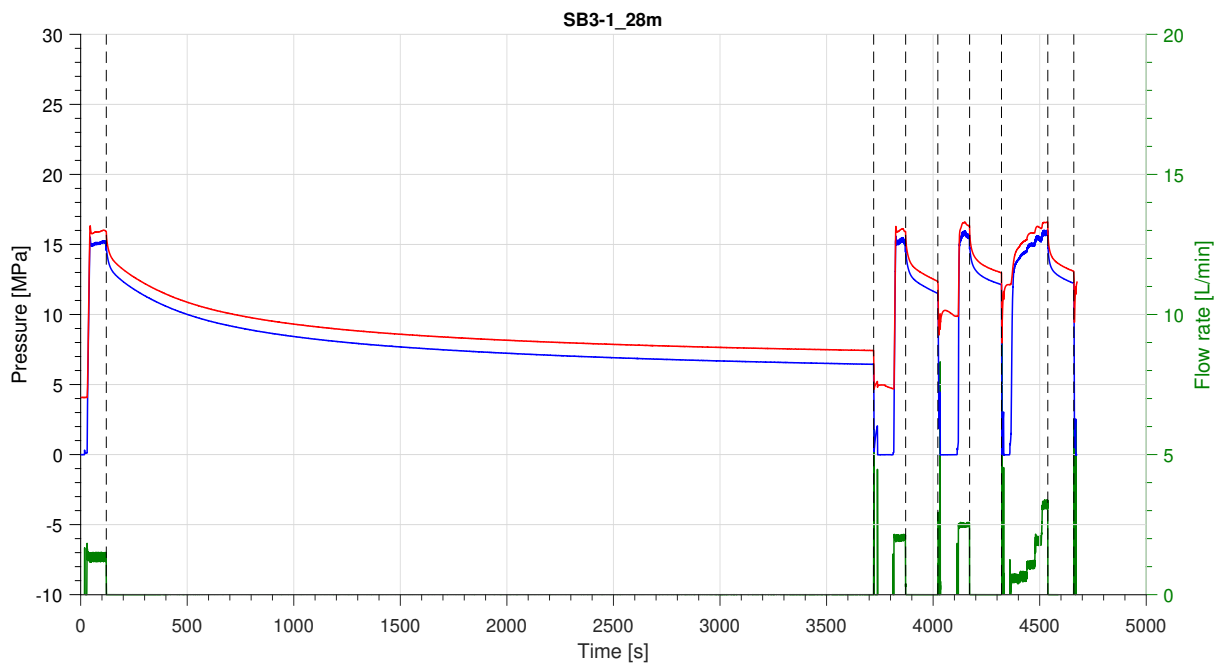
(c) SB3.1 mini-frac at 20.0 m



(d) SB3.1 mini-frac at 24.0 m

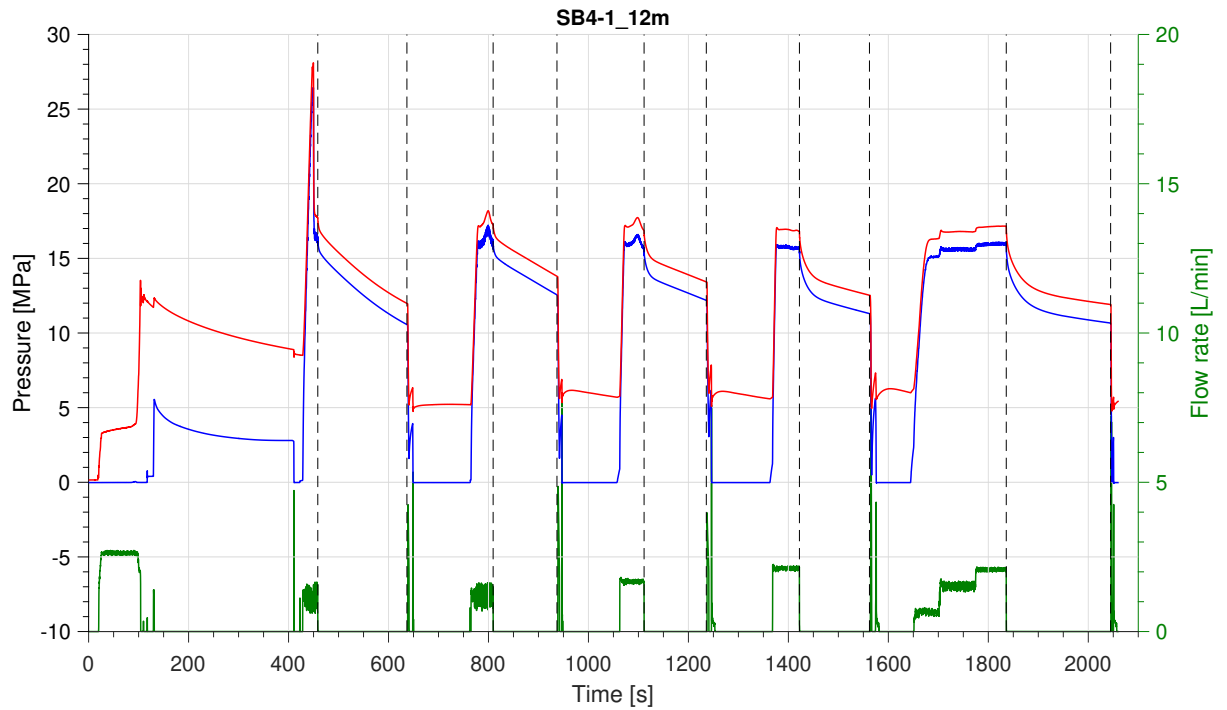


(e) SB3.1 mini-frac at 28.0 m a

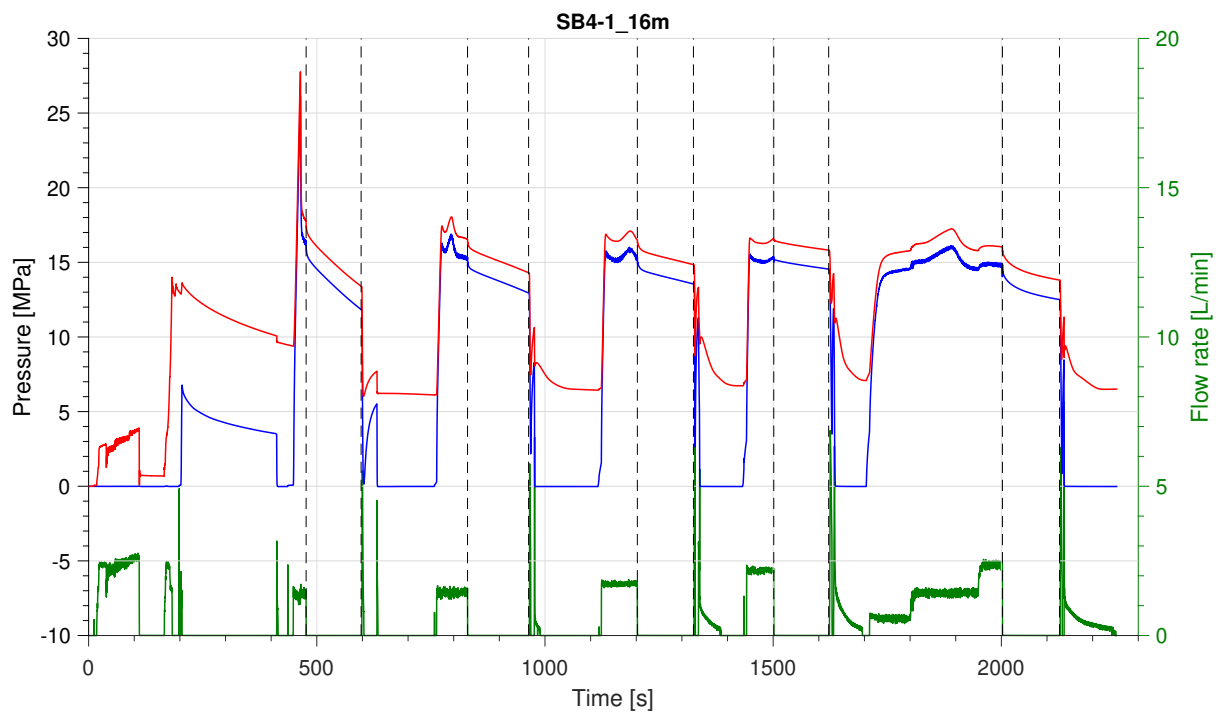


(f) SB3.1 mini-frac at 28.0 m b

### 1.4 SB4.1

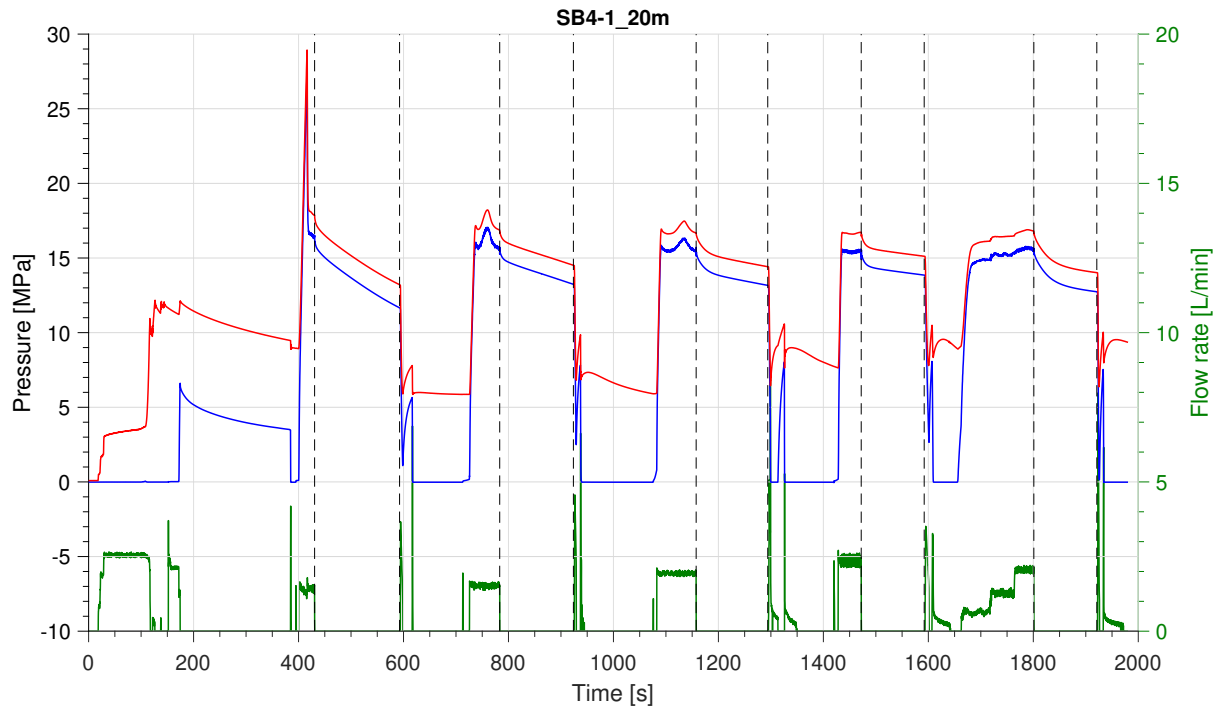


(a) SB3.1 mini-frac at 12.0 m

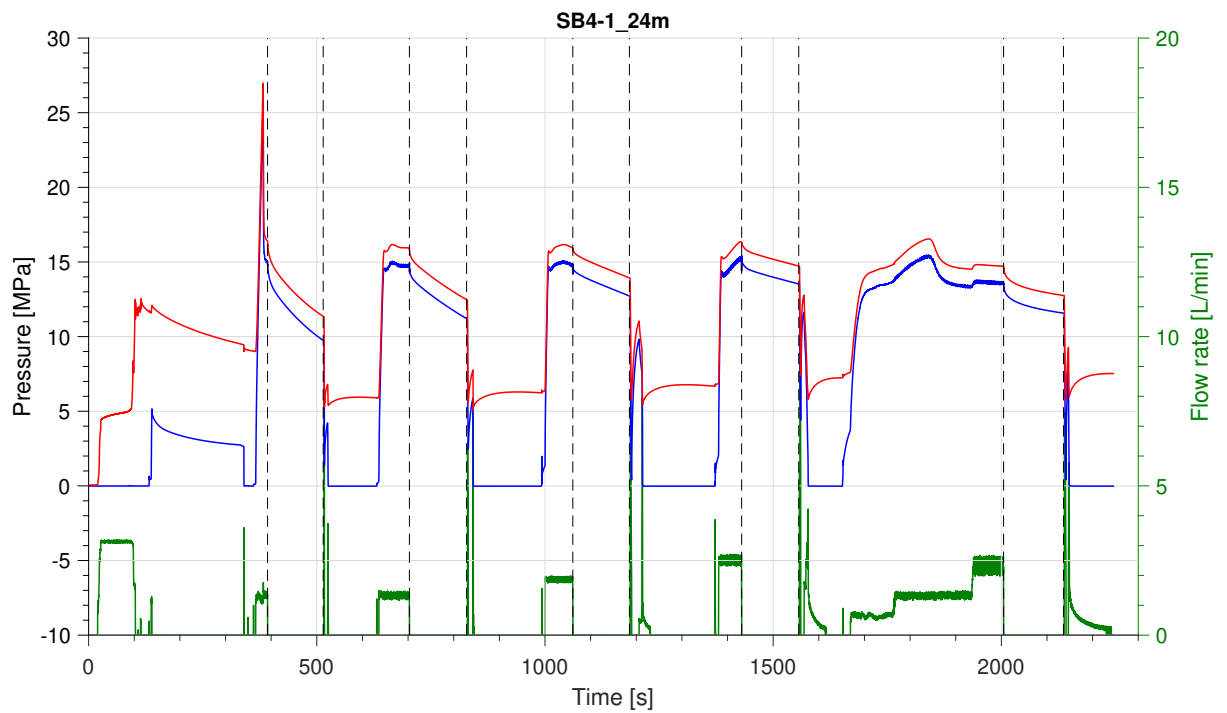


(b) SB3.1 mini-frac at 16.0 m

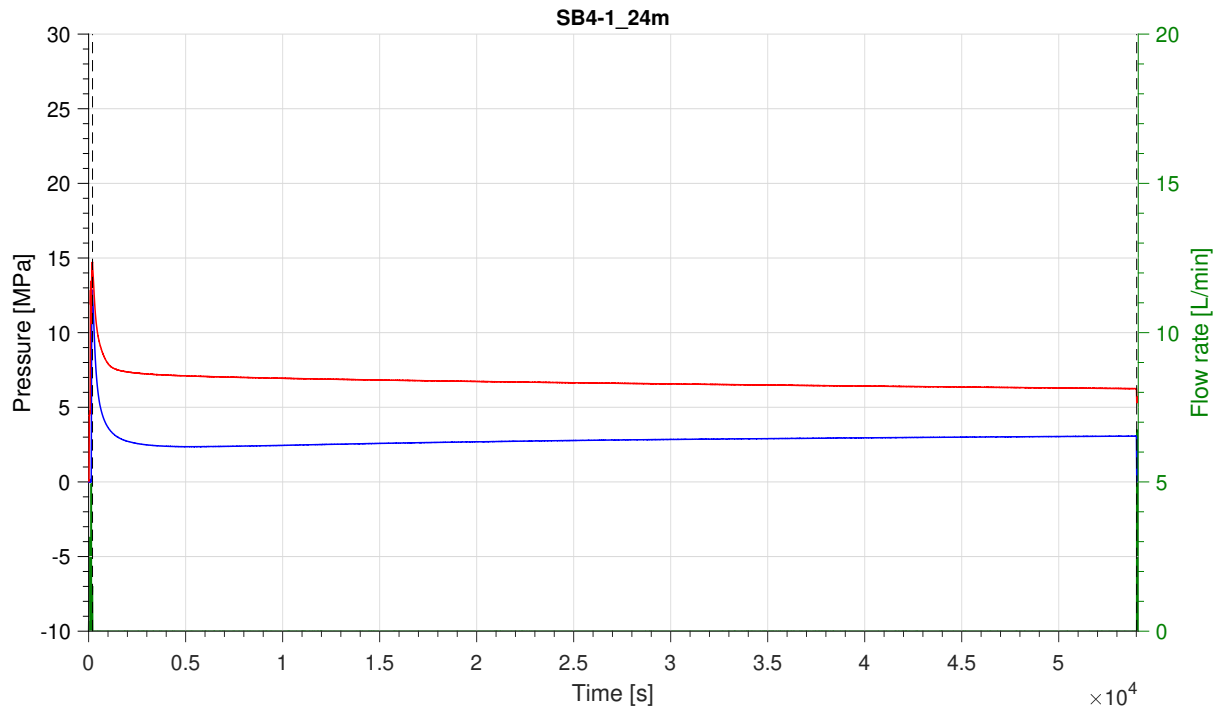




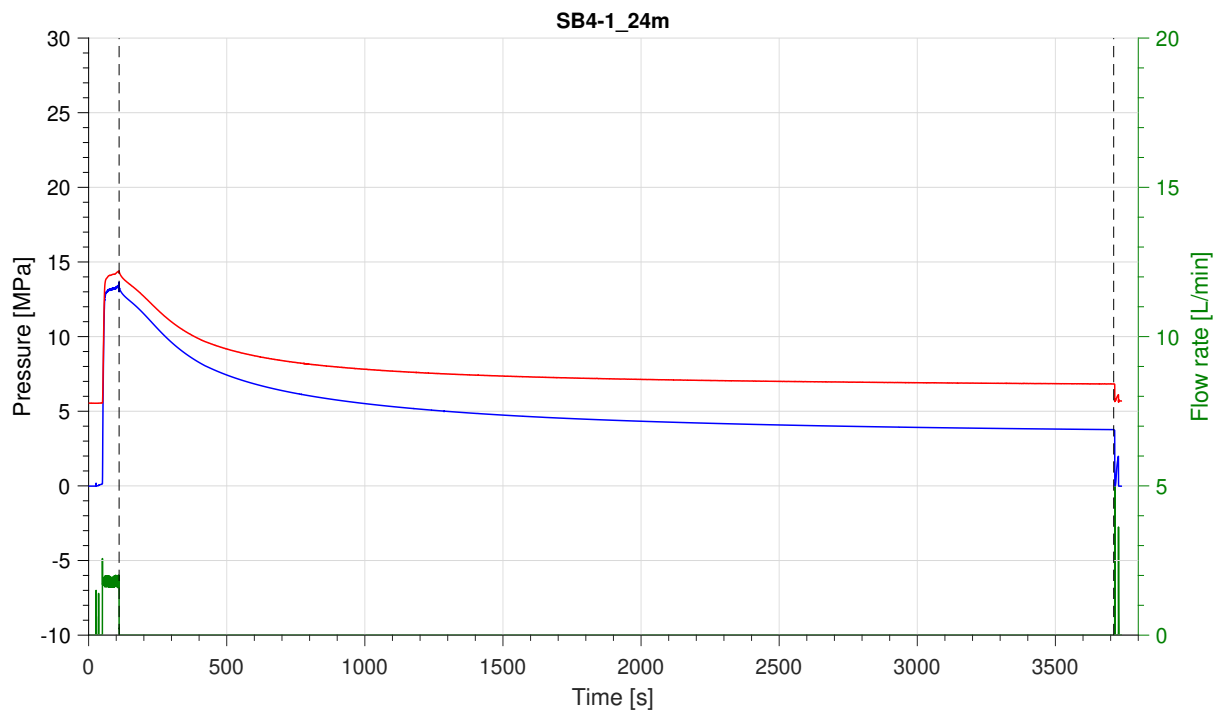
(c) SB3.1 mini-frac at 20.0 m



(d) SB3.1 mini-frac at 24.0 m a



(e) SB3.1 mini-frac at 24.0 m b



(f) SB3.1 mini-frac at 24.0 m c

