

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)

SB1.1	18.12.2018														19.12.2018								
	08:00		10:00		12:00		14:00		16:00		18:00		20:00		22:00		00:00		02:00		04:00		06:00
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HF = Hydraulic-Fracturing Test
RF = Refrac-Cycle
IP = Impression Packer Test
DF = Dry Fracturing
DR = Dry Re-Opening

NOTE: RF 4 is always a step-rate test

The letters (a, b, c) refer to the filename that the data is saved in. No letter means that there is just one file for that interval.

* = RF4 and 5 are step-rate tests

** = test abandoned due to stimulation of pre-existing fracture and increase of fluid flow out of borehole

SB2.1	23.01.2019						24.01.2019						05.02.2019										
	16:00		18:00		20:00		22:00		00:00		02:00		04:00		06:00		08:00		14:00		16:00		
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11																							
12																							
13			a) HF, RF 1-4																			DR 1-3	
14																							
15																							
16																					a) HF, RF 1-4	DR 1-3	
17																							
18					a) HF (overnight shut-in)																	b) RF 1-3 (1h shut-in)	DR 1-3
19																							
20																							
21																							
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23																						a) HF, RF 1-4	DR 1-3
24																							
25			a) HF, RF 1-4																				DR 1-3
26																							
27																							
28																							
29																							
30																							

HF = Hydraulic-Fracturing Test
RF = Refrac-Cycle
DR = Dry Re-Opening

NOTE: RF 4 is always a step-rate test

The letters (a, b, c) refer to the filename that the data is saved in. No letter means that there is just one file for that interval.

SB3.1	05.02.2019						06.02.2019						10.04.2019									
	18:00		20:00		22:00		00:00		02:00		04:00		06:00		08:00		10:00		14:00		16:00	
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14																						
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16																	HF, RF 1-4			DR 1-3		
17																						
18																						
19																						
20																	HF, RF 1-4			DR 1-3		
21																						
22																						
23																						
24																	HF, RF 1-4			DR 1-3		
25																						
26																						
27																						
28		a) HF (overnight shut-in)													b) RF 1-4 (1h shut-in)					DR 1-3		
29																						
30																						

HF = Hydraulic-Fracturing Test
RF = Refrac-Cycle
DR = Dry Re-Opening

NOTE: RF 4 is always a step-rate test

The letters (a, b, c) refer to the filename that the data is saved in. No letter means that there is just one file for that interval.

SB4.1	10.04.2019				16.05.2019								17.05.2019							
	Depth [m]	18:00	20:00		14:00	16:00	18:00	20:00	22:00		00:00	02:00	04:00	06:00	08:00					
1																				
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11																				
12				HF, RF 1-4																
13																				
14																				
15																				
16				HF, RF 1-4																
17																				
18																				
19																				
20				HF, RF 1-4																
21																				
22					Dilatometer Test															
23																				
24				a) HF, RF 1-4				b) RF 5	c) RF 6 (overnight shut-in)											
25								(1h shut-in)												
26																				
27																				
28				a) HF, RF 1-4				b) RF 5*												
29								(15min shut-in)												
30																				

HF = Hydraulic-Fracturing Test
RF = Refrac-Cycle
DR = Dry Re-Opening

NOTE: RF 4 is always a step-rate test

The letters (a, b, c) refer to the filename that the data is saved in. No letter means that there is just one file for that interval.

* = test abandoned due to significant pressure fall-off

	10:00		12:00
		DR 1-3	
		DR 1-3	
		DR 1-3	
		DR 1-3	
		DR 1-3	