Biax Experiment

Exp. Name: p5565WGMin1g
Operator(s): Wood, Affinito

Date/Time: 2021-07-23
Hydraulics start: 4377.7
Hydraulics end: 4378

Sample Block Thickness w/ no gouge:

Layer Thickness (total on bench): mm
Under Load: mm
Material (Qtz, Granite, ?): WG
Particle Size, Size Distribution : Minusil – 1g/side

Load Cells: Contact Area: 0.01 m^2

Load cell name	**Calibrations (mV/kN)**	**Target stress (MPa)**	**Init. Voltage**	**Volt. @ load**
44mm Solid Horiz	12.535 (V/MPa): 0.1254	5, 7, 10, 12	0.0035	0.63025, 0.88095, 1.257 , 1.5077
44mm Solid Vert	12.889 (V/MPa): 0.1289	None	1.454	

Data Logger Used: 8 channel channel
Horiz. DCDT: *long rod*
0.756 mm/V

Control File: + CTRL File
Vert. DCDT: Trans-Tek2
2.82 mm/V

Purpose/Description: Slow/fast slip events – demonstration for KHN Japanese documentary. Recorded 16 AE sensors.

Acoustics Blocks used: 6x6
Temperature: 24.8 53.8

Experiment Notes

1200 5MPa
7500 shear (ext2) at 10um/s to peak
9400 Unload/Reload After 1.5mm Displacement to realign the spring.
10800 Rehearing To Peak Strength Again.
18000 1kHz, run1 - Slow instabilities occurred on the data.
301000 OB VDCDT offset
48000 Ns Increased to 7 Mpa
680000 11mm of Displacement, planning to increase the NS to 10 MPa
780000 Increased Normal Stress to 10 MPa
1285000 Decreased to 1Hz sample rate and sample held while we set-up the configuration.
1290000 Vertical DCDT Offset., V OB DCDT offset
1790000 Downstep to 3um/s
2885000 Upstep to 30 um/s
3000000 Upstep to 100 um/s
3172000 Taking load off and dropping sample rate to 1 Hz