Biax Experiment

Exp. Name: p5458WGcutPerm5-20
Operator(s): Wood

Date/Time: 01 Nov. 2020
Hydraulics start: 3613.2
Hydraulics end:

Sample Block Thickness w/ no gouge:

Layer Thickness (total on bench): mm @sample
Under Load: mm
Material (Qtz, Granite, ?): WG, Saw-cut & 80-grit.
Particle Size, Size Distribution :

Load Cells: Contact Area: 0.0022292545 m^2

Load cell name	**Calibrations (mV/kN)**	**Target stress (MPa)**	**Init. Voltage**	**Volt. @ load**
44 mm Horiz.	HG: 119.303	1, 5, 20	0.79220	1.0582, 2.122 , 6.1113

Vessel Pressure: Pore Fluid: DI H2O

	Calibrations (V/MPa)	**Pressures (MPa)**	**Init. Voltage**	**Volt. @ load**
Pc	Gain: 0.1456	3.145	-0.153436	0.30448
PpA	HG: 1.517	2.5, 2.5, 2.5, 2.5	0.097009	3.88951, 3.88951, 3.88951, 3.88951
PpB	HG: 1.483	0.5, 1.0, 1.5, 2.0	0.049729	0.79123, 1.53273, 2.27423, 3.01573

Data Logger Used: 16 channel

Control File: No

Horiz. DCDT: *Short Rod*
HG: 0.64 mm/V

Vert. DCDT: TT2

Purpose/Description: Permeability test of saw-cut sample roughened with 80-grit.
Sample to be sent to Andy Rathbun at Chevron for profilometry before DAET/PP osc. experiment.

Acoustics Blocks used: SDS L-block v2

Experiment Notes

150 at 6kN. put on doors

2710 plug in PpA/B ptrdx

2980 empty/refill PpA/B

3220 go to 5MPa

3350 fill vessel

3555 switch PpA/B to high gain

3630 Ppa load offset

3680 Ppb load offset

4470 Pc at 3MPa

note: Pc load and displacement reversed in recorder – oops.

7520 hydraulics shut off. chiller on, check hydraulics before next exp.

8260 unplug/replug Ppb cable

8625 start saturation

9500 flowing through, $\sim 13 \mu m/s$. $k \approx 3 * 10^{-16} m^2$. @ PpA = 1MPa.

13000 connect PpB (valve closed).