Biax Experiment

For current calibrations – `gpfs/group/cjm38/default/Calibrations/`

Revised: 30 Nov. 2021

Exp. Name: p5605WGSawcutPres
Operator(s): Wood
Temperature (°C):
Relative Humidity (%):

Date/Time: 31/12/2021
Hydraulics start: 4855.1
Hydraulics end: 4858.4
Data Logger/Control File: 8-chan

Purpose/Description: Quick experiment to measure contact area of sawcut WG using pressure sensitive film. Compare to after DAET experiments.
Sample Block Used and Thickness with **no** Sample: SDS Vessel 5x5 cm

Material: Westerly Granite
Benchtop Sample Thickness (mm): 32.5

Load Cells: Contact Area: 0.0022231311 m^2

Load cell name	**Calibrations (mV/kN)**	**Target stress (MPa)**	**Init. Voltage**	**Volt. @ load**
44mm Solid Horiz	129.984 (V/MPa): 0.289	10, 15, 20	-0.9005	1.98921, 3.43407, 4.87893

Displacement Transducers

Name	***Gain (mm/V)***
Horiz. Load-point	0.658

Horizontal Servo Settings	
P: 900	D_{atten}: 10
I: 80	Feedback: 512
D: 10	E-gain: 800
Vertical Servo Settings	
P: –	D_{atten} –
I: –	Feedback: –
D: –	E-gain: –

Chilled water at HPS	*Chiller Unit*	*Proc. water @ Chiller*
1. Temp In (°F): 50	6. Panel Temp (°F): 57	10. Temp In (°F): 69
2. Pres. In (psi): 6	7. Panel Pres. (psi): 46	11. Pres. In (psi): 2
3. Temp Out (°F): 66	8. Near Pres. In (psi): 2	12. Temp Out (°F): 40
4. Pres. Out (psi): 2	9. Near Pres. Out (psi): 5	13. Pres. Out (psi): 8
5. Flow (lpm): 15		
Hyd. Power Supply (HPS)		
14. Tank Temp (°C): 38.4	15. Temp. Out (°C): 15	16. Pres. Out (psi): 2700

Experiment Notes

550 H dcdt offset

770 @ 10 MPa. Pres. films shows a small divot in surface (lower, center).

1565 @ 15 MPa.

2180 @ 20 MPa.