Biax Experiment

For current calibrations - gpfs/group/cjm38/default/Calibrations/ Revised: 30 Nov. 2021

Exp. Name: p5740

Operator(s): Wood, Eijsink

Temperature (°C):

Relative Humidity (%):

Date/Time: 21/06/2022 Hydraulics start: 5373.4

Hydraulics end:

Data Logger/Control File: 16-chan

Contact Area: $0.0022231311\ m^2$

Purpose/Description:

Sample Block Used and Thickness with ${f no}$ Sample: SDS Vessel 5x5 cm

Material: Westerly Granite

Benchtop Sample Thickness (mm): 32.5

Load Cells:

Load cell name	Calibrations (mV/kN)	Target stress (MPa)	Init. Voltage	Volt. @ load
44mm Solid Horiz	129.984	4, 9.25, 10, 10.5	0.504	1.65989, 3.17699, 3.39371, 3.5382
	(V/MPa): 0.289	4, 9.29, 10, 10.9		
44mm Solid Vert	120.364	0	0	0.
	(V/MPa): 0.2676	U		

Vessel Pressures:

Pore Fluid:DI H2O

Calibrations (V/MPa)	Pressures (MPa)	Init. Voltage	Volt. @ load
Pc: 0.1456	2, 8.25, 7.75, 7.25	0.021	0.3122, 1.2222, 1.1494, 1.0766
PpA: 1.5083	2.6, 1.4, 1	0.215	4.13658, 2.32662, 1.7233
PpB: 1.4611	2.6, 3, 4, 5	-0.104	3.69486, 4.2793 , 5.7404 , 7.2015

Displacement Transducers

Name	$Gain\ (mm/V)$
Horiz. Load-point	0.658
Vert. Load-point	3.51
Horiz, On-Board	0.416

Horizontal Servo Settings		
P:	D_{atten} :	
I:	Feedback:	
D:	E-gain:	
Vertical Servo Settings		
	Der co Decerrige	
P:	D_{atten}	

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

Experiment Notes