METAROCK LABORATORIES
MR-210000850_FORGE_GRANITE
THERMAL PROPERTIES
UPDATE: 10.29.2021

Prepared for Dr. John McLennan





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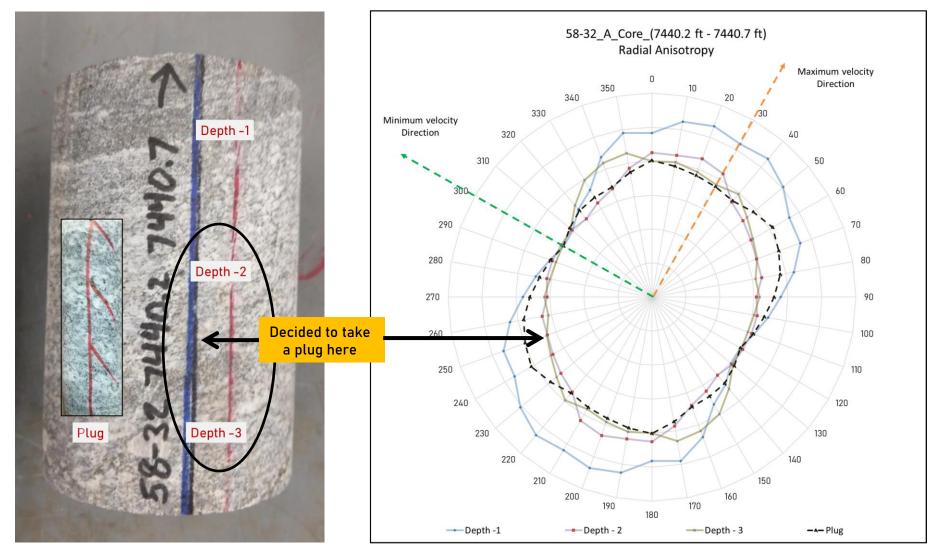
Thermal Expansion Test 58-32_A_01_1V1.A_HT

7440.43 ft



Radial Velocity Measurement

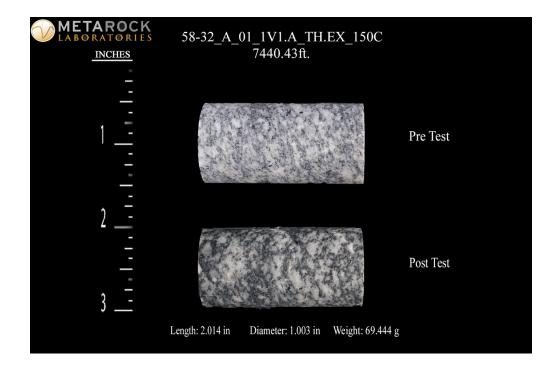
58-32_A (7440.2 - 7440.7 ft)



Set01: 58-32_A_01 7440.43ft.

58-32_A_01_1V1 7440.43 ft.

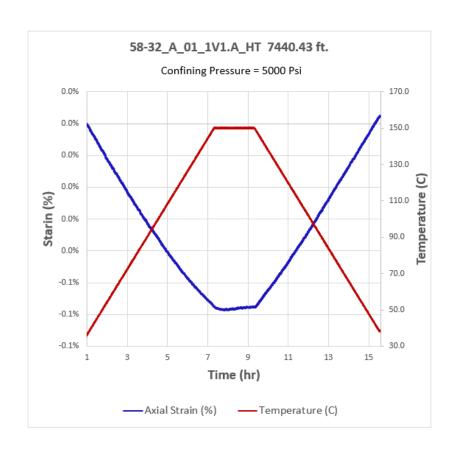


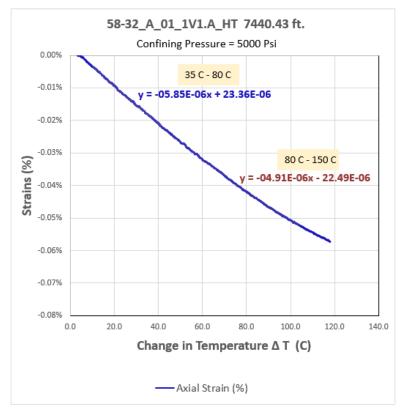




Thermal Expansion Test 58-32_A_01_1V1.A_HT 7440.43ft.

Test Overview







Thermal Expansion Test 58-32_A_01_1V1.A_HT 7440.43ft. Summary

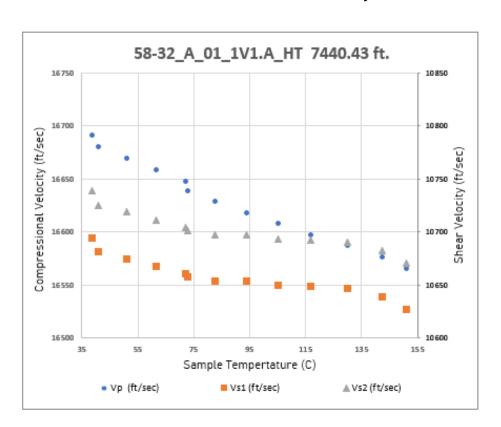
Confining Pressure (Psi)	Thermal Expansion Coefficient (× 10^-6)		Compressional Velocity	Shear Velocity (S1) (ft/sec)	Shear Velocity (S2) (ft/sec)	Vp/VS(avg)
	Axial					
	35 - 80 C	80 - 150 C	(ft/sec)	(ft/sec)	(ft/sec)	
5000	-5.85	-4.95	16194	10753	10743	1.51

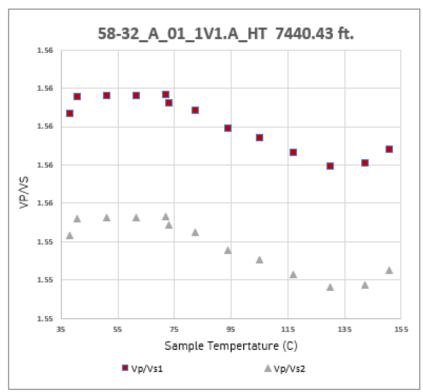
^{*}Geoengineering convention has been used where compression is deemed positive and expansion is deemed negative.



Thermal Expansion Test 58-32_A_01_1V1.A_HT 7440.43ft.

Dynamic Data at P_C= 5000 psi

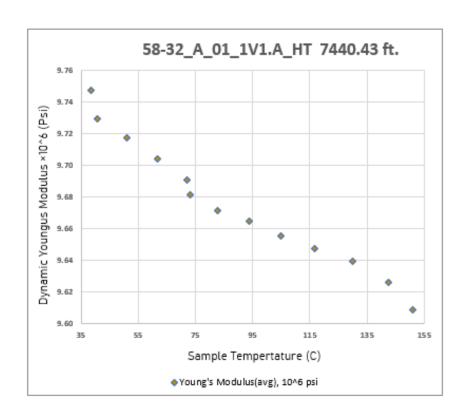


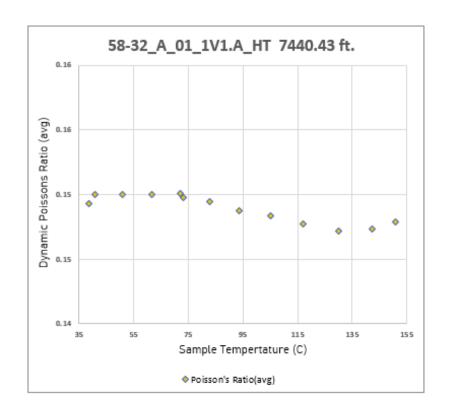




Thermal Expansion Test 58-32_A_01_1V1.A_HT 7440.43ft.

Dynamic Mechanical Properties







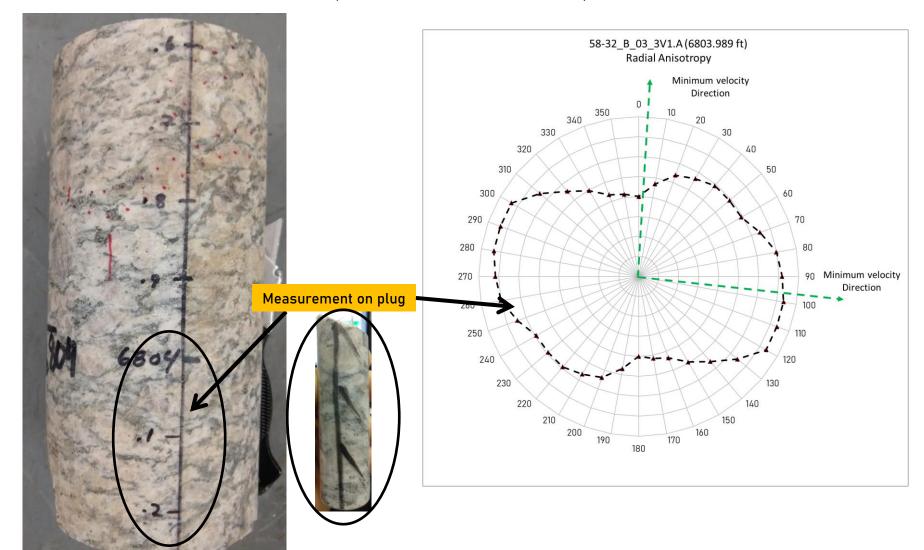
Thermal Expansion Test 58-32_B_03_3V1.A

6803.989 ft



Radial Velocity Measurement

58-32_B_03_3V1.A (6803.58 ft - 6804.28 ft)



Set: 58-32_B_03

58-32_B_03_3V1 6803.989 ft.



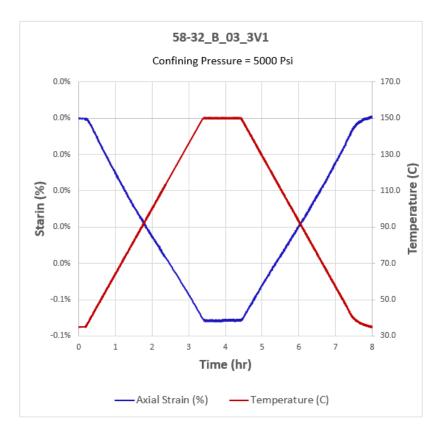


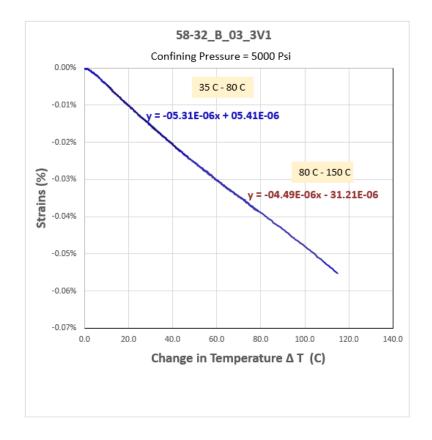


Thermal Expansion Test

58-32_B_03_3V1.A_HT_6803.989ft.

Test Overview





Thermal Expansion Test 58-32_B_03_3V1.A_HT 6803.989ft. Summary

Confining Pressure (Psi)	Thermal Expansion Coefficient (× 10^-6)		Compressional Velocity	Shear Velocity (S1) (ft/sec)	Shear Velocity (S2) (ft/sec)	Vp/VS(avg)
	Axial					
	35 - 80 C	80 - 150 C	(ft/sec)	(ft/sec)	(ft/sec)	
5000	-5.31	-4.49	19554	10982	11033	1.77

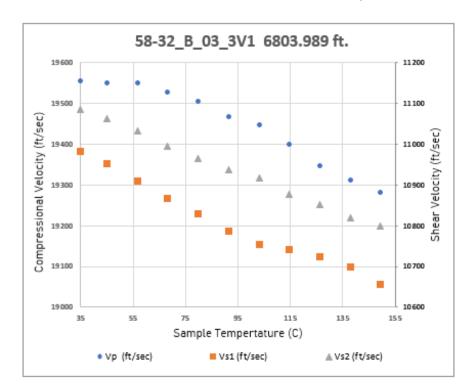


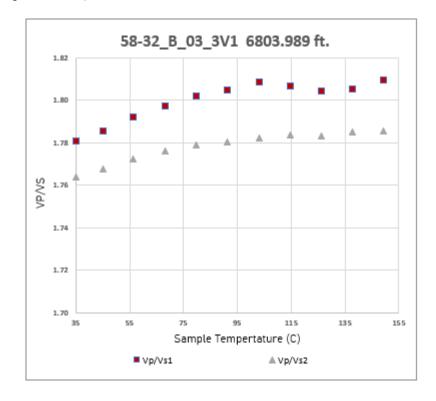
^{*}Geoengineering convention has been used where compression is deemed positive and expansion is deemed negative.

Thermal Expansion Test

58-32_B_03_3V1.A_HT 6803.989ft.

Dynamic Data at P_c= 5000 psi



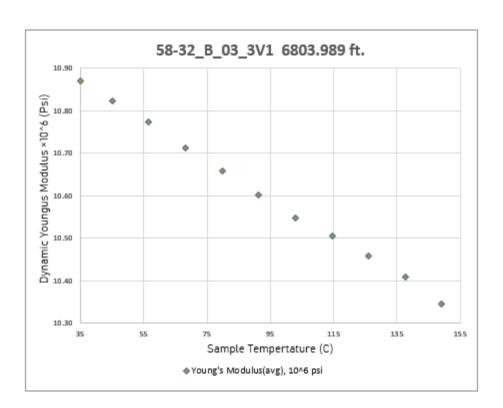


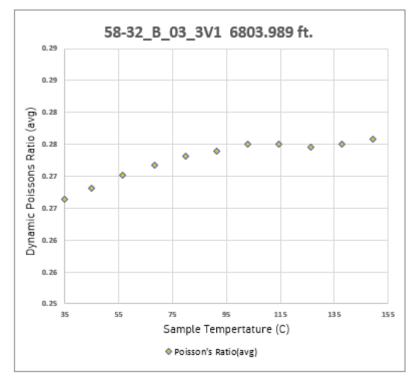


Thermal Expansion Test

58-32_B_03_3V1.A_HT 6803.989ft.

Dynamic Mechanical Properties





THANK YOU





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