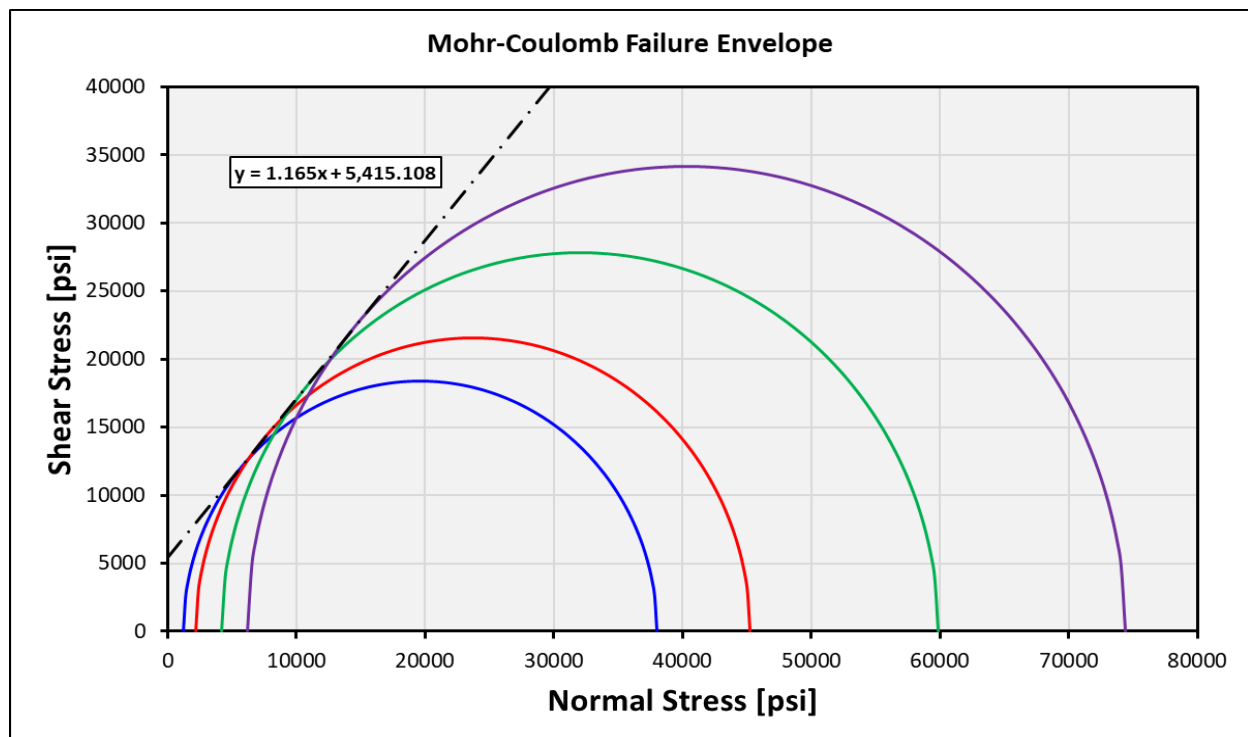
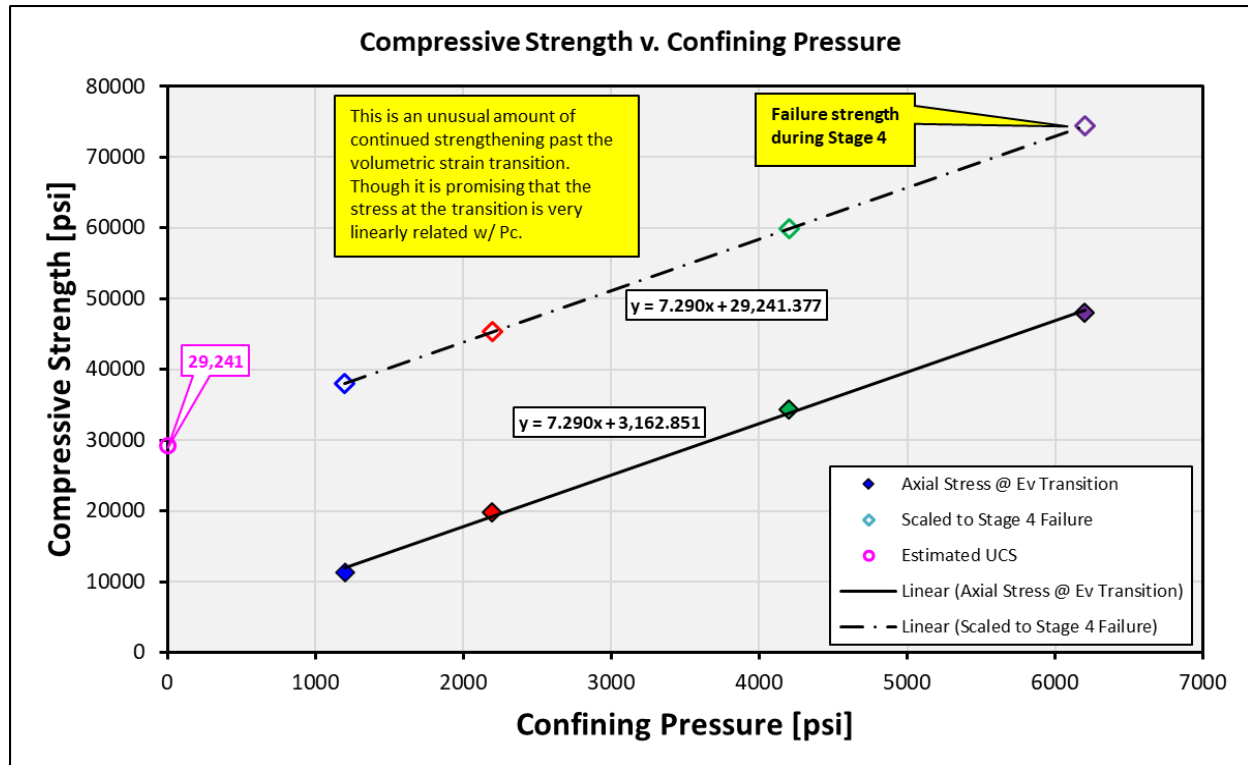


Company: Alberta Geological Survey, Alberta Energy Regulator
Well: Multiple Wells
Field: #N/A
Location: Onshore, Canada
Sample ID: Hunt Well #18 (old); 25BA_HW_018 (New)

Date: 31-Mar-2025
File: 202500182
Saturated Fluid: As-Received

Result of Triaxial Compressive Strength Test



Company: Alberta Geological Survey, Alberta Energy Regulator
 Well: Multiple Wells
 Field: #N/A
 Location: Onshore, Canada

Date: 31-Mar-2025
 File: 202500182
 Saturated Fluid: As-Received

Result of Triaxial Compressive Strength Test

Sample # (stage)	Depth [m]	Confining Pressure $P_c = \sigma_3$ [psi]	Differential Stress $\sigma_1 - \sigma_3$ [psi]	Compressive Strength σ_1 [psi]	Slope σ_1 v. P_c	Estimated UCS [psi]	Internal Friction Angle [deg.]	Internal Coefficient of Friction	Cohesive Strength [psi]
Hunt Well #18 (Stage 1)	2355.62	1200	36789	37989	7.290	29241	49.4	1.165	5415
Hunt Well #18 (Stage 2)	2355.62	2200	43079	45279					
Hunt Well #18 (Stage 3)	2355.62	4200	55659	59859					
Hunt Well #18 (Stage 4)	2355.62	6200	68239	74439					

Note: Stages 1-3 are unloaded at the point where the volumetric strain transitions from compression to dilation, noting the differential stress at which this transition occurs. During Stage 4 we also note the differential stress at which this transition occurs, but then continue on to the ultimate failure of the sample. We then determine the approximate failure strength during Stages 1-3 by scaling the volumetric strain transition stress up to the ultimate failure strength that is determined during Stage 4.

During Stage 4 this specimen displayed an unusual amount of continued strengthening past the point where volumetric strain transitioned from compression to dilation. It is a promising indication, however, that the stress at the transition is very linearly related w/ P_c .