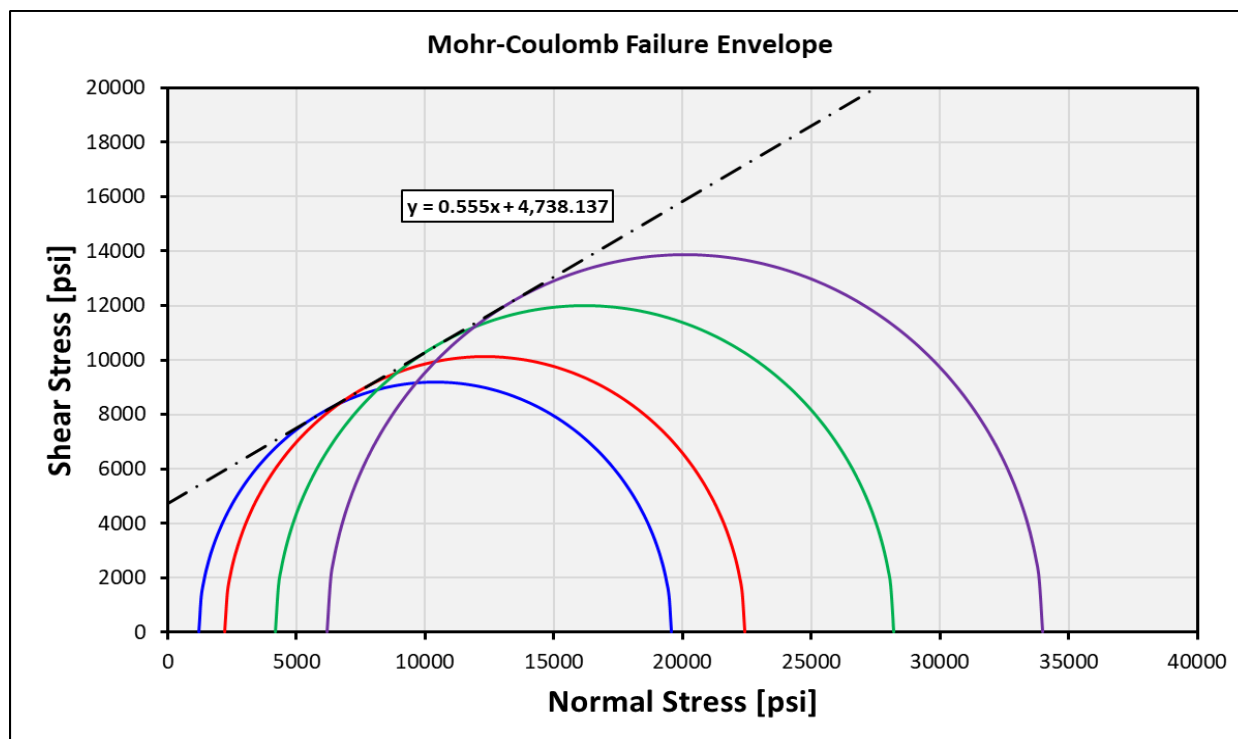
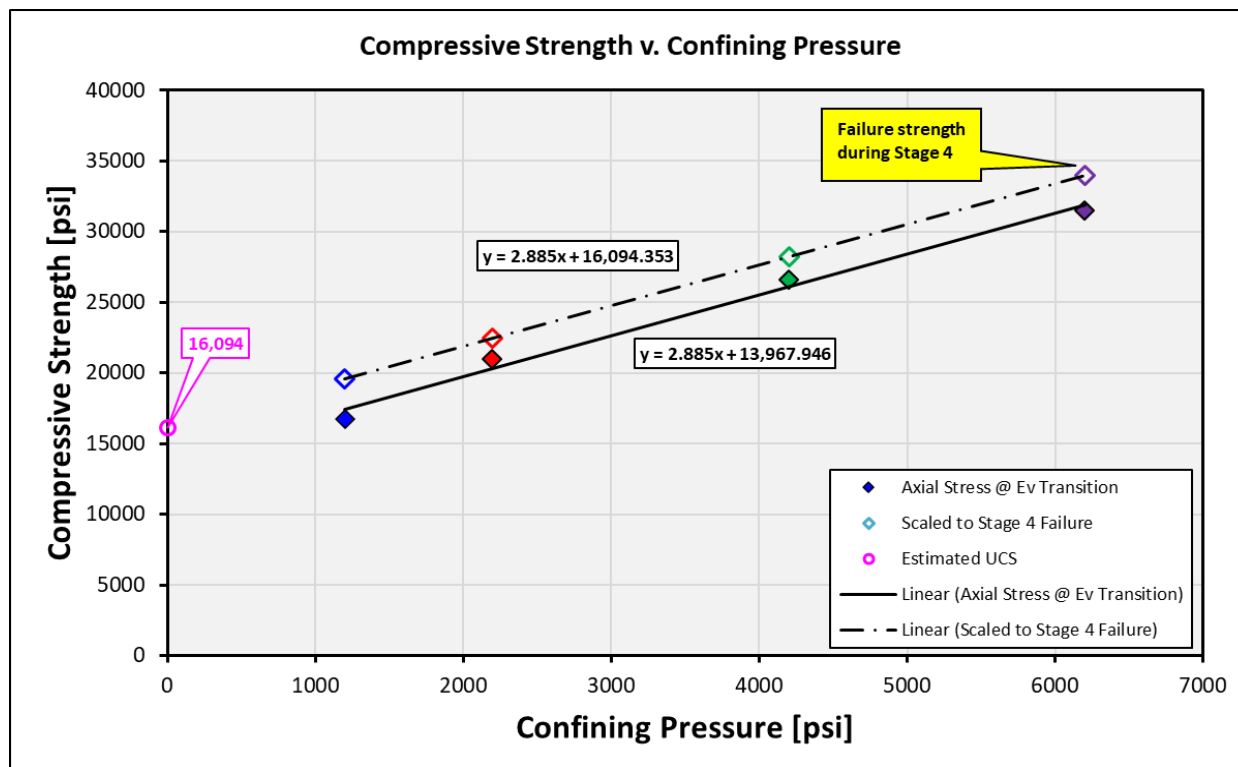


Company: Alberta Geological Survey, Alberta Energy Regulator
Well: Multiple Wells
Field: #N/A
Location: Onshore, Canada
Sample ID: 8 (Old); 25BA021 (New)

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 $\sigma_1 \text{ v. } P_c$	Estimated UCS (psi)	Internal Friction Angle (deg.)	Internal Coefficient of Friction	Cohesive Strength (psi)
8 (Stage 1)	2242.41	1200	18356	19556					
8 (Stage 2)	2242.41	2200	20240	22440					
8 (Stage 3)	2242.41	4200	24009	28209	2.885	16094	29.0	0.555	4738
8 (Stage 4)	2242.41	6200	27778	33978					

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.