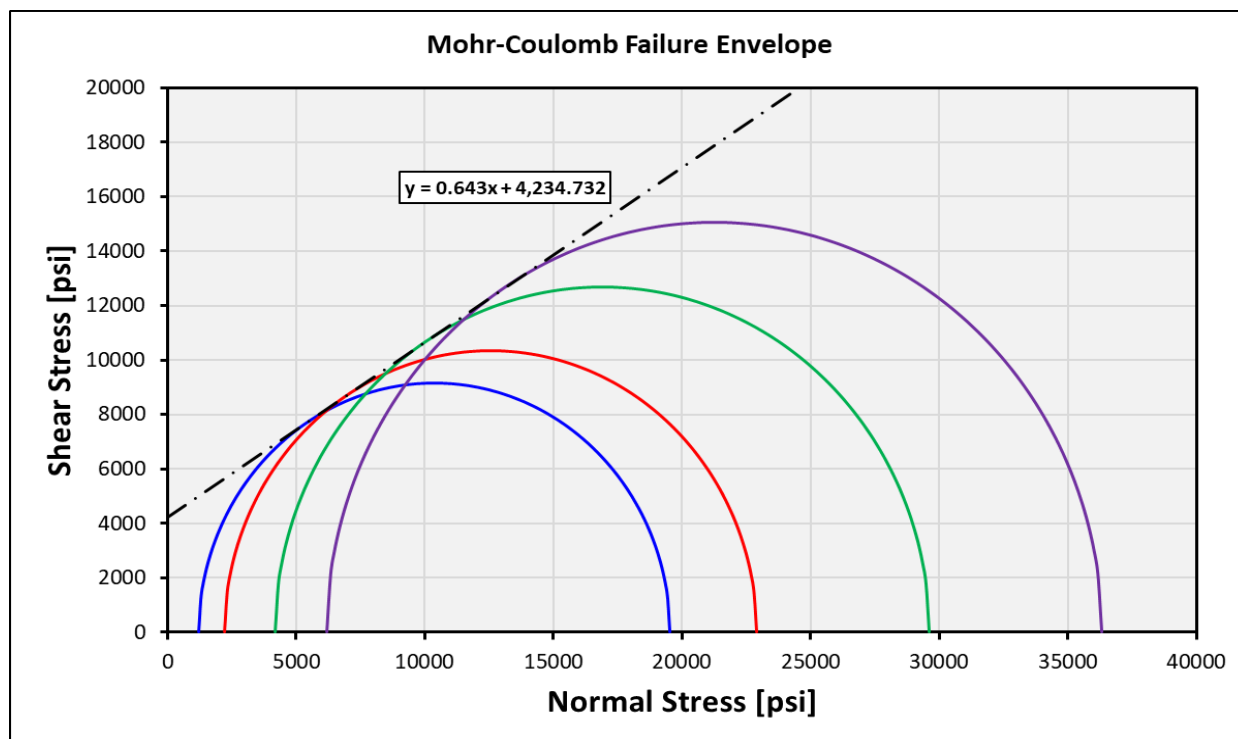
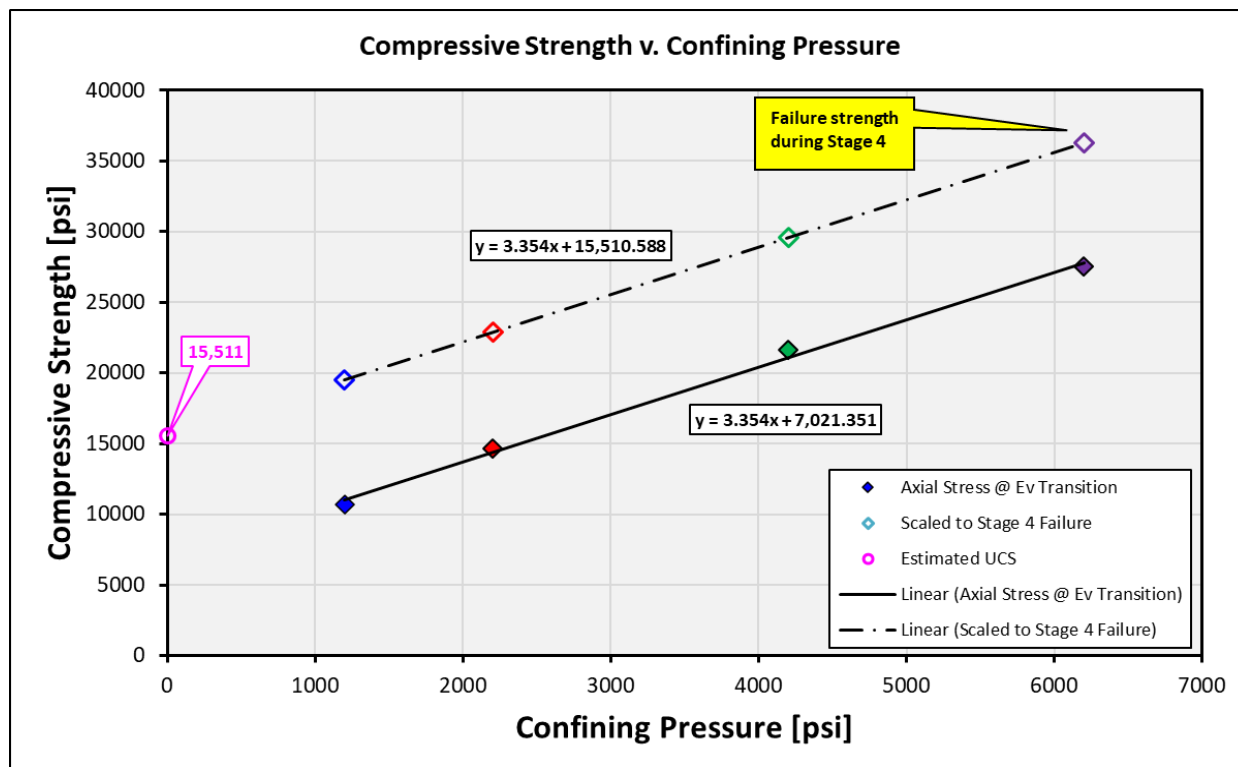


Company: Alberta Geological Survey, Alberta Energy Regulator
Well: Multiple Wells
Field: #N/A
Location: Onshore, Canada
Sample ID: 16 (Old); 25BA029 (New)

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 $\sigma_1 v. P_c$	Estimated UCS (psi)	Internal Friction Angle (deg.)	Internal Coefficient of Friction	Cohesive Strength (psi)
16 (Stage 1)	3027.2	1200	18335	19535	3.354	15511	32.7	0.643	4235
16 (Stage 2)	3027.2	2201	20691	22892					
16 (Stage 3)	3027.2	4200	25397	29597					
16 (Stage 4)	3027.2	6200	30105	36305					

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.