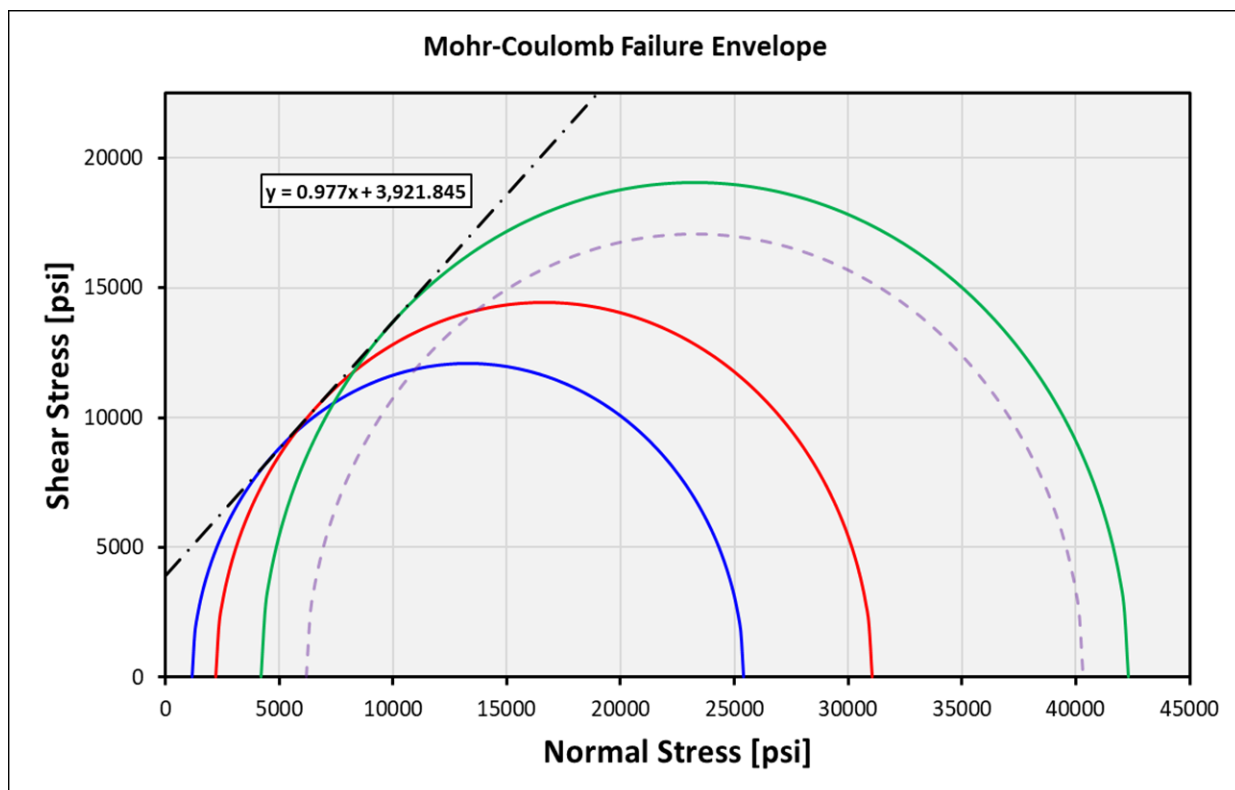
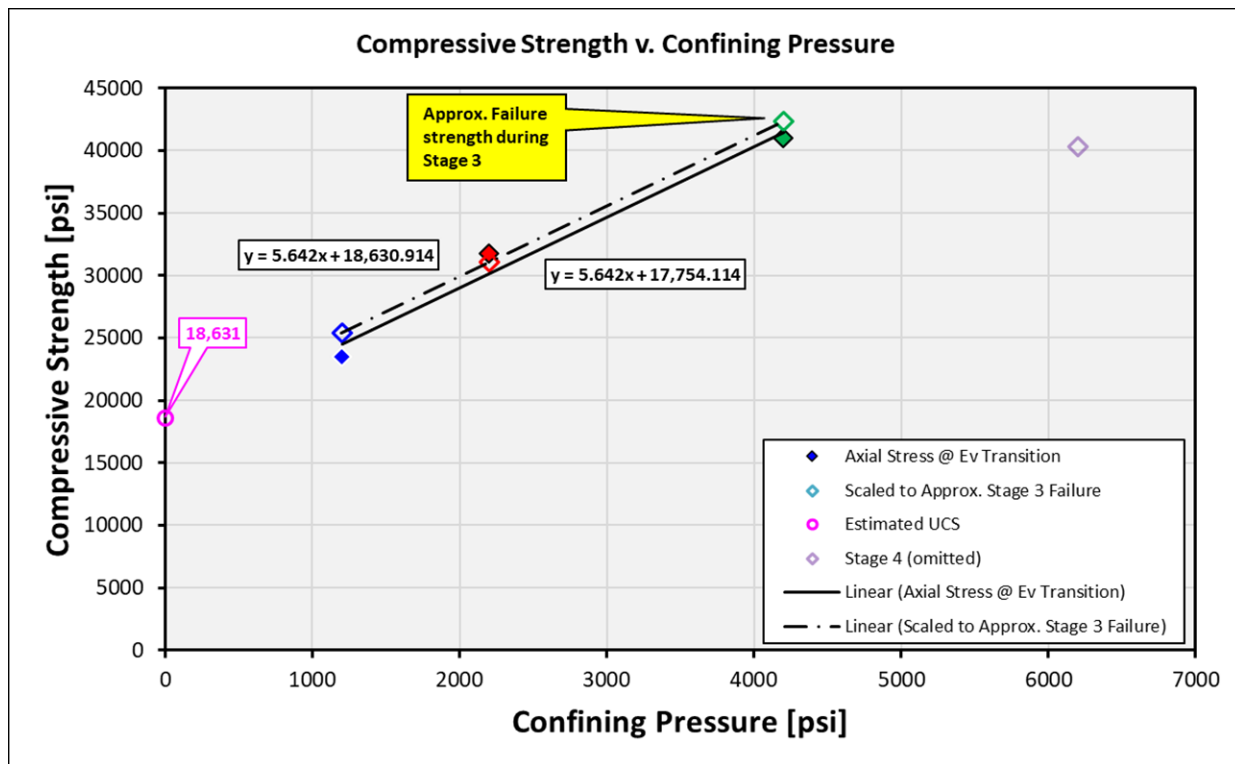


Company: Alberta Geological Survey, Alberta Energy Regulator
Well: Multiple Wells
Field: #N/A
Location: Onshore, Canada

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

Result of Triaxial Compressive Strength Test



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 Well: Multiple Wells
 Field: #N/A
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Date: 31-Mar-2025
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 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)
24BA067 (Stage 1)	1861.67	1200	22296	23496	5.642	18631	44.3	0.977	3922
24BA067 (Stage 2)	1861.67	2200	29509	31709					
24BA067 (Stage 3)	1861.67	4200	36736	40936					
24BA067 (Stage 4)	1861.67	6200	34103	40303					

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.

Note: During Stage 4 loading at a differential stress of ~14,000 psi, the specimen appears to have developed a leak, resulting in a flawed analysis for that stage. Mohr-Coulomb analysis is therefore conducted utilizing only the Stage 1-3 data.