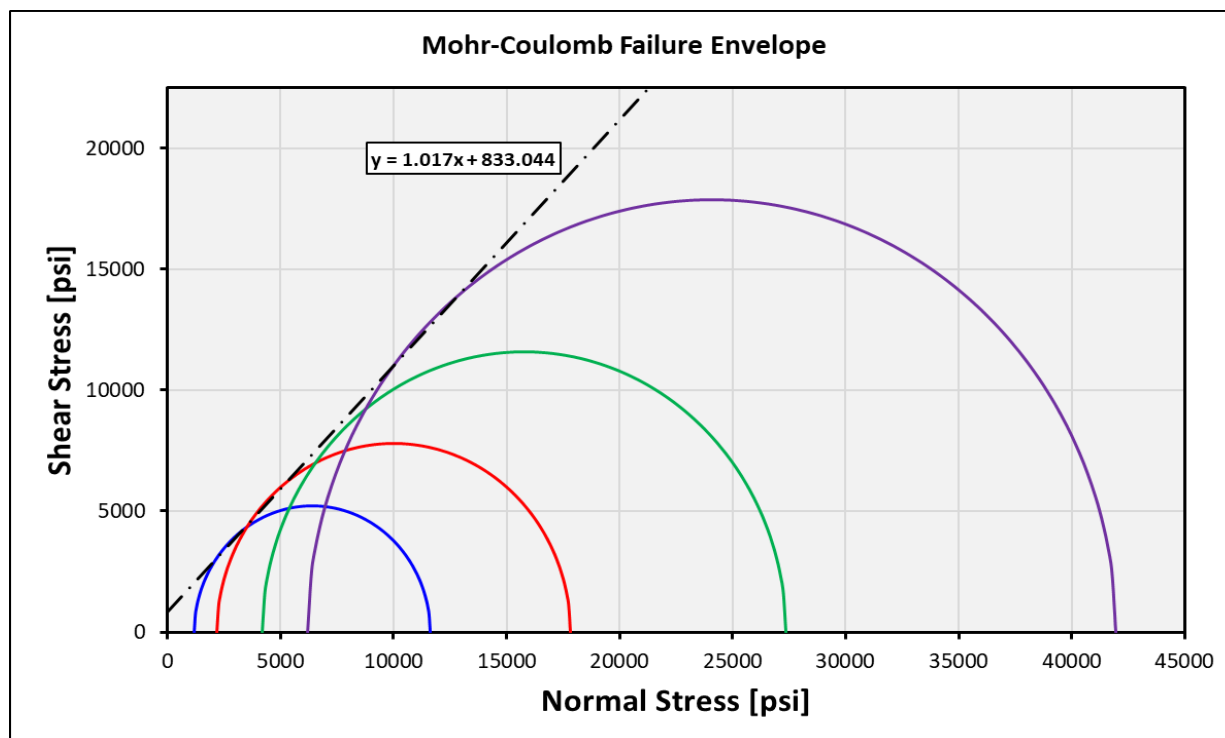
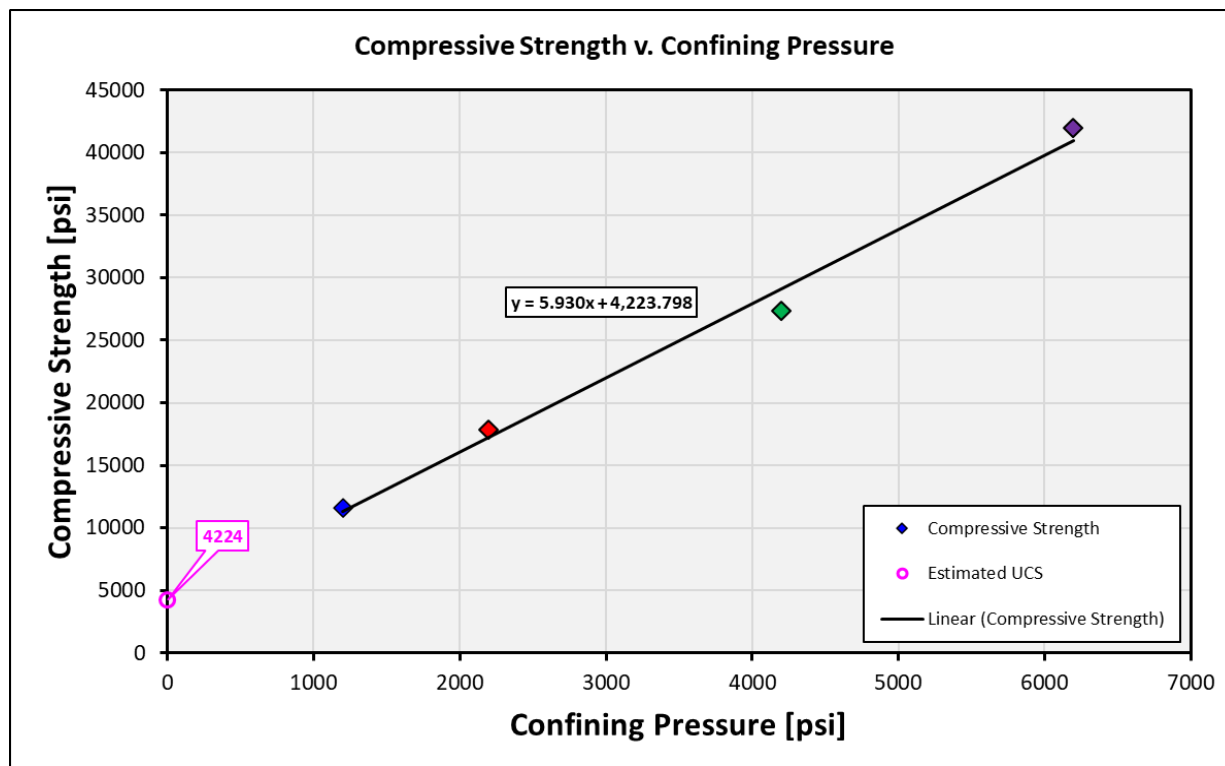


Company: Alberta Geological Survey, Alberta Energy Regulator
Well: Multiple Wells
Field: #N/A
Location: Onshore, Canada

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)
24BA018 (Stage 1)	2063.13	1201	10402	11603					
24BA018 (Stage 2)	2063.13	2200	15638	17839					
24BA018 (Stage 3)	2063.13	4200	23143	27343	5.930	4224	45.5	1.017	833
24BA018 (Stage 4)	2063.13	6200	35745	41945					

Note: Loading of this specimen were quite unusual, Stages 1-3 were all unloaded at the approximate point of volumetric strain transitioning from bulk compression to bulk dilation, and based on the shape of the stress-strain curve, Stages 2 & 3 were very close to failure at that point also. Stage 4 however, survived far past the transition point of volumetric strain. As such, this envelope was created in a more conventional fashion, by presuming that the maximum differential stress reached was approximately equivalent to the compressive strength at that confining pressure.