





## **Highwall Drainage and Depressurization using Directional Drilling**

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REIDRILLING.COM

REI Drilling, Inc.

250 West Berger Lane Salt Lake City, UT 84107 Phone: 801-270-2140 Email: dan@reidrilling.com REI has the cabability to drain/depressurize a highwall using directional drilling techniques conducted from a bench within the mine. From the bench, a collar is drilled through fractured rock and into competent underlying rock. For highwall drainage, REI grouts and pressure tests the collar to at least 1.5 times the expected head (~250 psi in the case illustrated above). With a successful pressure test, a trunk line is drilled into the rock at an incline. Near the end of the trunk line, the hole is directionally steered up into the high permeability, overlying fractured rock to form a "j-hook". While tripping out of the trunk line, several other j-hooks may be drilled into the overlying rock to increase flow of water from the formation and into the trunkline. A plurality of these trunklines with j-hooks may be drilled from the same location in a fan-like pattern to increase drainage.