



## **BERNIER CONSTRUCTION, INCORPORATED PROJECT SUMMARY**

**Project Title:** Caledonia Northwest Abandoned Mine Reclamation Project

**Location:** Jay Township, Elk County, PA

**Scope:** Provide labor, materials, equipment, and supervision to reclaim an abandoned coal mine area

Berner Construction was awarded a contract from the Commonwealth of Pennsylvania Department of Environmental Protection (PADEP) to reclaim an abandoned deep coal mine area. The project is located in Jay Township, Elk County, PA on approximately 18 acres. This ecosystem restoration project included clearing and grubbing, implementation of the Erosion and Sedimentation (E&S) Control Plan, demolition of former deep mine fan units, high alkaline material addition, installation of two mine seals, and site restoration including regrading 94,000 cubic yards of material, revegetation of 18 acres and planting of 15,000 new trees.



The abandoned coal mine area includes two former deep mines that have produced large quantities of acid mine drainage (AMD). A drill rig was used to determine the depth of AMD that has accumulated in the deep mine. The two former deep coal mines were sealed using wet seals and broad crest weirs to control and measure the AMD. Approximately 11,600 tons of high calcium stone was strategically placed to help neutralize the AMD that seeps from the former mines. The remnants of the fan units formerly used to supply air into the deep mines were demolished and removed for the site.

**Installation of Mine Seal at Deep Mine #2**

The project commenced with the clearing and grubbing of the 18 acre site. Implementation of the Erosion and Sedimentation Control Plan included construction of permanent rock-lined channels and associated rock energy dissipaters. Approximately 94,000 cubic yards of material was regraded at the site and the 18 acres was revegetated. Site restoration included planting approximately 15,000 new trees.



**Completed and Revegetated Site**