



## BERNER CONSTRUCTION, INCORPORATED PROJECT SUMMARY

**Project Title:** Wolf Run/Barlow Hollow Abandoned Mine Reclamation Project

**Location:** Rush Township, Centre County, PA

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

Berner Construction was awarded a contract from the PA Department of Environmental Protection, Bureau of Abandoned Mine Reclamation, to reclaim an abandoned strip coal mine site located in Rush Township in Centre County, PA. The reclamation approach incorporated a grading method called Forest Reclamation Approach (FRA) to encourage the site to adopt the natural forested habitat quicker than traditional reclamation and restoration methods. Approximately 800,000 cubic yards of displaced materials was used to backfill and grade the abandoned mine site that involved a total of 66 acres.



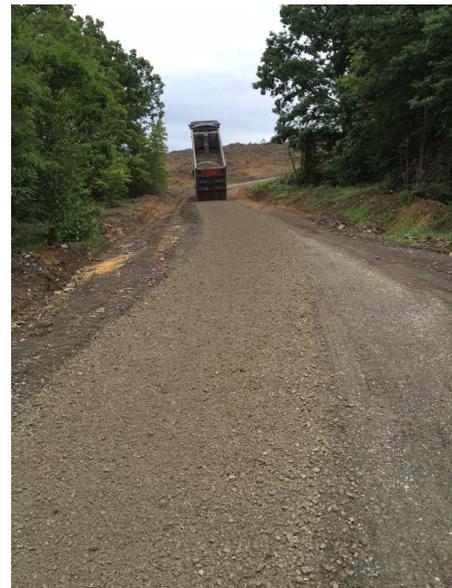
**FRA Grading Method**

Once grading was complete, the 66-acre site was restored by spreading soil amendments including lime and fertilizer. Trees were then planted and the site was hydroseeded to plant seed and apply mulch to the newly graded areas in accordance with the project plans and specifications.

Berner's two Caterpillar® D-11 bulldozers, excavators and off-road articulating dump trucks were used to relocate the mine spoils and perform the grading operations. Berner utilized a TopCon® GPS system, mounted on the bulldozers to maintain the proper grades through the duration of the project.

The ecosystem restoration project included clearing, grubbing, excavating, backfilling, grading, constructing ditches and rock-lined channels, installing subsurface drain piping, constructing access roads, and site restoration, including planting 44,865 trees.

In addition, the project included the implementation of the Erosion and Sedimentation Control Plan which consisted of the installation and removal of over 7,500 linear feet of super silt fence, and construction of over 8,000 linear feet of brush barrier for erosion control and wildlife habitats.



**Access Road Construction**