

CASE STUDY

HEFFNER HOLLOW

Tioga County, Pennsylvania
Submar Project 18092

SUBMAR®



BEFORE



AFTER

EXISTING CONDITIONS

An 8-inch natural gas pipeline crosses an unnamed creek in Tioga County, Pennsylvania in a 50-foot wide right-of-way. The creek bed and banks are composed of clay and rock. The right descending bank of the creek has been eroded due to flooding creating an 8-foot pipeline exposure. Further, the right bank is about 12 feet tall with several slips due to high water that has undercut the bank.

SOLUTION

The site was dewatered using an earthen dam and pumps. Both banks and the streambed were graded, and a geotextile material was placed on top of the grade.

A Submar articulating concrete mat system was installed from high bank to high bank to armor the pipeline. All edges of the mat system were toed into anchor and flank trenches that were backfilled with existing material and rip rap. A subgrade rock grade control was installed downstream of the mat system to prevent headcutting. Final grading was performed, seed and straw were placed on the disturbed area.

THE Exposed Pipeline Remediation Experts

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