

REI Western Region

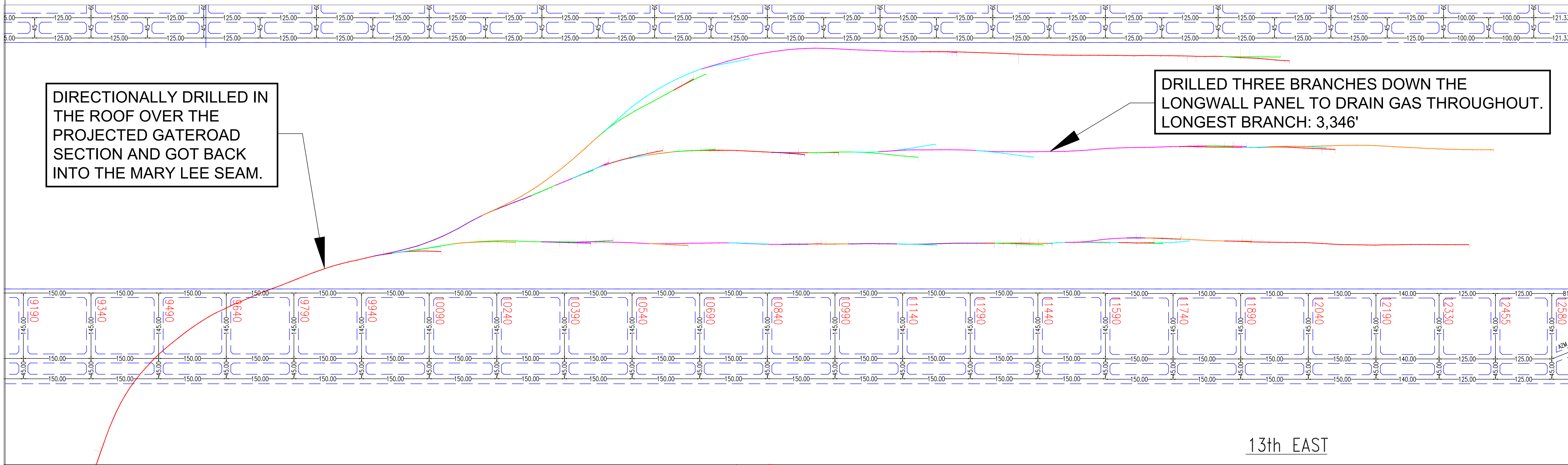
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DEGASIFICATION BOREHOLES



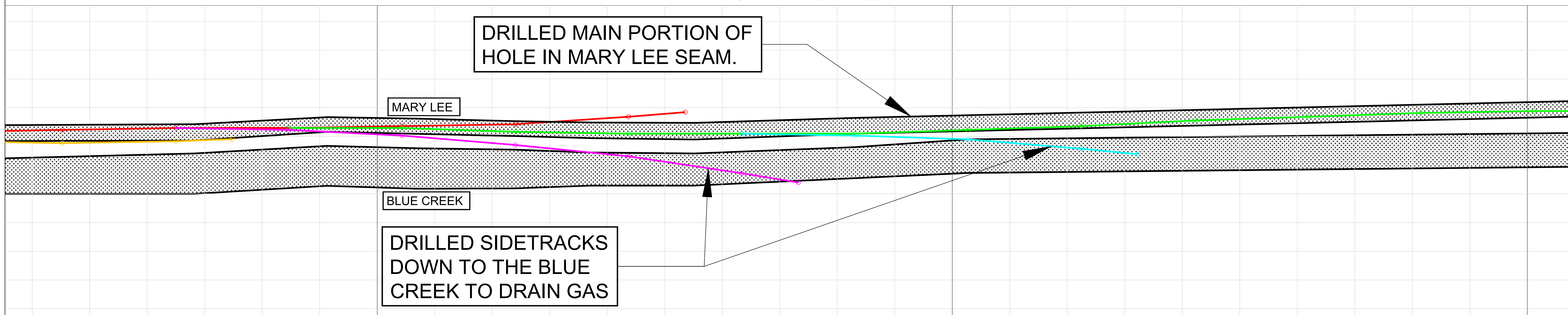
Ultra Long In-Seam Boreholes for commercial Coal Mine Methane (CMM) recovery and degasification significantly in advance of mining.

PLAN VIEW



13th EAST

PROFILE VIEW



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REI DRILLING
DIRECTIONAL UNDERGROUND

In-Seam Horizontal Degas Boreholes for Longwalls

Using directional drilling techniques, REI has the capability to drill along specific projected paths in order to drain methane from a longwall panel efficiently. At a coal mine in Alabama, REI drilled three branches across and adjacent longwall panel as part of a long-term project. This borehole was drilled in the competent Mary Lee seam because of hole stability requirements, and short sidetracks were drilled down to the friable Blue Creek seam in order to liberate gas. This has proven to be a safe way to effectively degas the Blue Creek seam while maintaining borehole competency by drilling the majority of the hole in the Mary Lee.