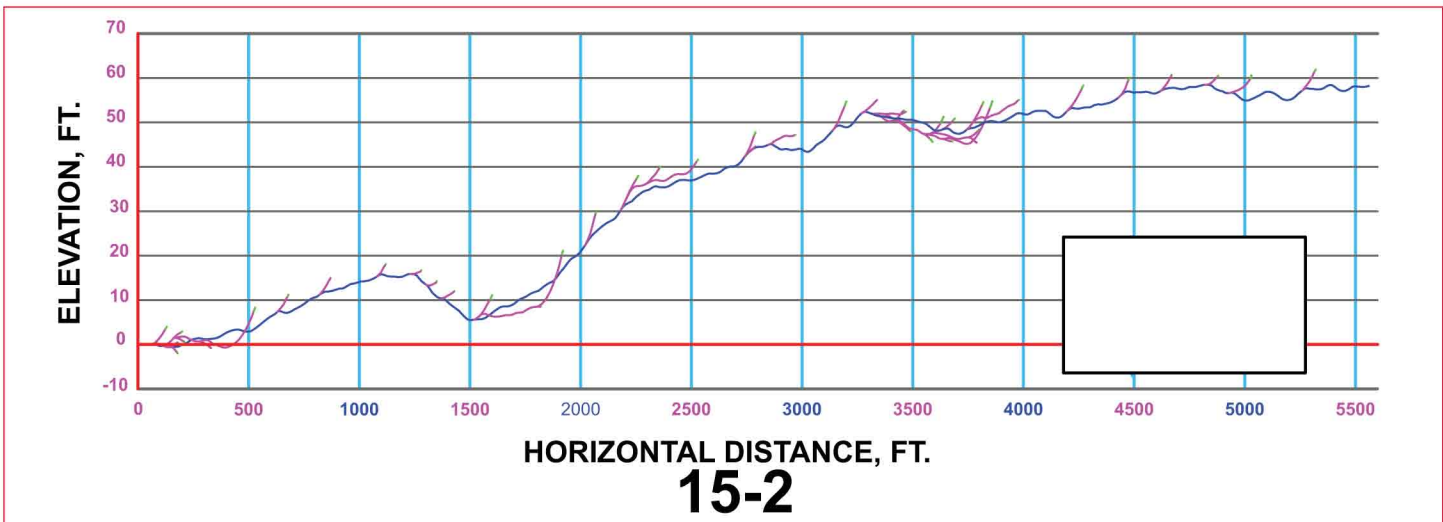
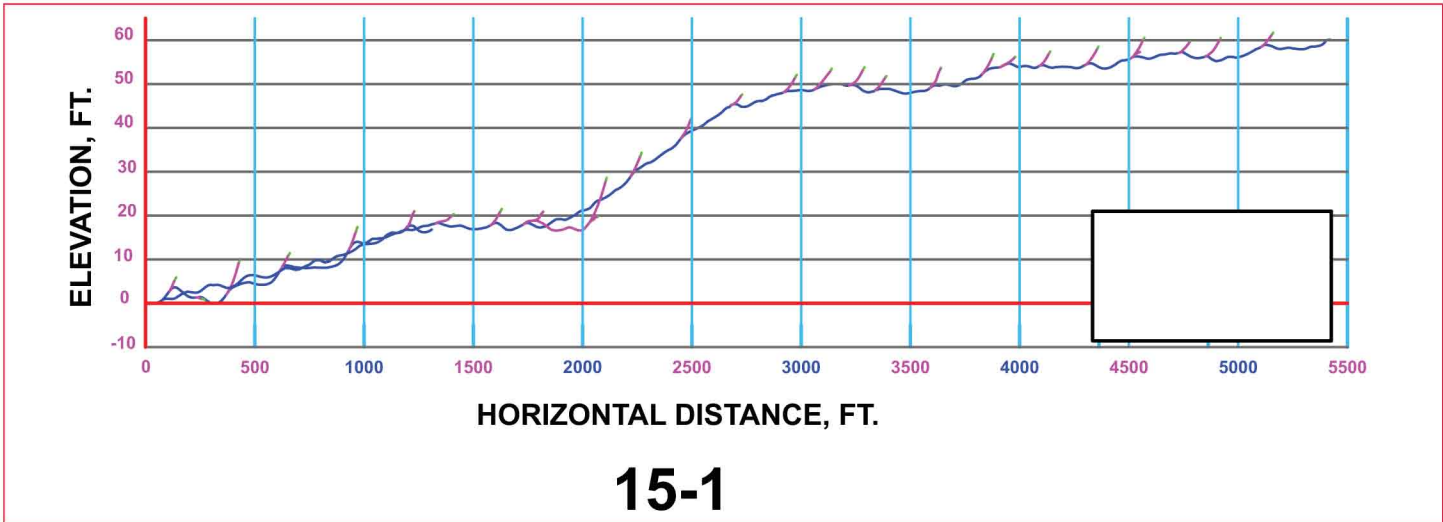




# In-Seam Degasification Longholes



## In-Seam Degasification Longholes

### Degasification Underground In-Seam

Long horizontal boreholes drilled in the coalbed in advance of mining can greatly reduce methane emissions experienced when the area is mined (methane reductions is dependent up on time allowed to drain the methane). In addition, boreholes, drilled along side of development mining, can “shield” the development section from much of the methane it would experience, even when the boreholes are drilled immediately before or as mining is taking place.

### In-Seam Long Boreholes (>3000 ft.) or Longholes

- Shield Gateroad Development
- Drilled in Advance of the Continuous Miner
- Longest Horizontal In-Seam Borehole in North America
- Provide Seam Profile and Geological Information
- Borehole Pattern Designed for Coal Seams With High Gas Content and High Permeability
- Mid Panel Holes Can Provide Additional Degasification Benefits

