

HPA Modeling : Building Type Curves

- Generated “Type-Curves” - model was run for a range of coal permeabilities, relative perm curves, and porosities (water storage)
 - Permeability range from 0.5 md to 150 md
 - Relative perm and water saturation modified to allow for wells that dewatered quickly, moderately, or very slowly
 - Layer thickness fixed at 60’
 - Initial gas content fixed at 454 scf/ton @ 1.5 g/cc
- All results were on a single layer basis.
- End result was an estimate of how a single individual layer/seam with specific reservoir parameters would be depleted with and without infill drilling
- Next step was to find a representative two layer model for each HPA location. The expected results for that model would be a summation of the results of its single layer constituents.