

Modeling Assumptions

- In a complex reservoir with many unknowns, it is better to use a simple model than to make an inaccurate complex model
- The layered pressure data confirms that a multiple layer model is required for the coal.
- The simplest approximation of the complexity of the coal is with a two layer model.
- A multi-layer reservoir can be represented by the sum of multiple single layer models.
- The differences in the pressure of individual layers can be assumed to be due to the respective permeabilities of those layers.
- Coal seams are laterally continuous over 160 acres
- For identical reservoir properties, simulated well production will vary linearly with model thickness (i.e. a 60' model will produce twice as much at all times as a 30' model)