

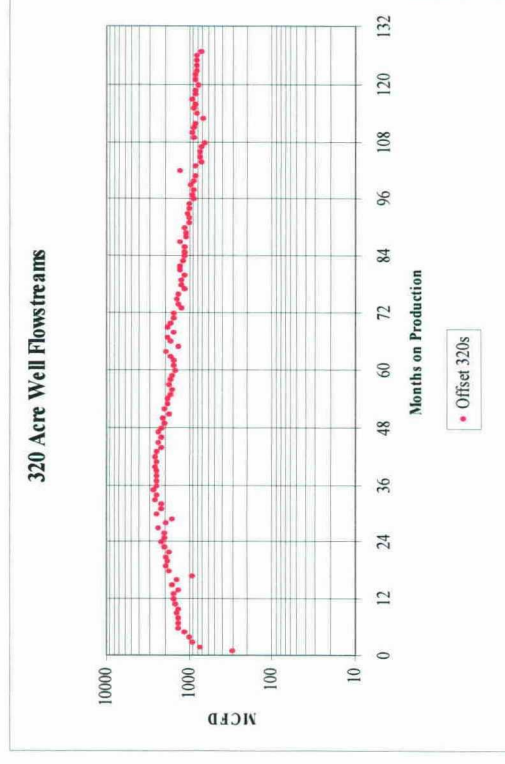
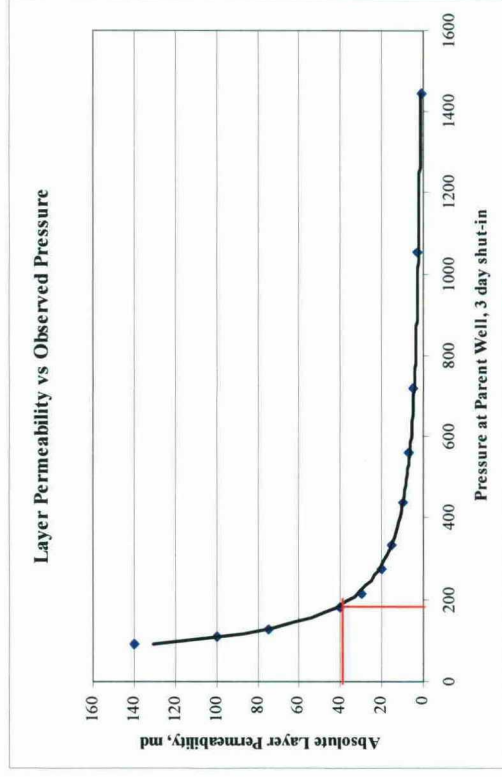
Example : Finding a Suitable Two Layer Model for an HPA Location

Known Data at HPA Location:

Mapped Coal Thickness = 50'

Measured composite Pressure = 180#

Offset Production Data for Existing Wells



- The permeability of the lower pressure layer can be inferred from the composite pressure data (in this case k_1 estimated to be 39 md)
- A trial and error method was used to determine the approximate permeability of the 2nd layer, the appropriate gas/water relationship, and the respective thickness of the two layers