

## **Conceptual Figure**

- 50 cells, each cell has dx and dy of 50m.
- Overall dimensions of domain 2500x2500m.
- One 900m vertical layer
- Constant west and east head boundaries
  - West: 895 m
  - East: 749 m
  - Arithmetic average of north & south observation well heads in respective domain half.
- Amber 7x7 square (350m x 350m) is Wildcat Farm, with a pumping well in the middle of it [16,5]
- Pink 40x20 (2000m x 1000m) rectangle is ACME Farm, with two pumping wells
- Scenario 1:
- K of domain is divided into four quadrants of equal area, based on K of the quadrant's respective observation well.