

# San Juan 27-5 Unit Reservoir Model

- 4 Layer, Dual Porosity Model
  - Two Wells
  - Paguate
  - Cubero
  - Lower Cubero
- 51 x 51 x 4 grid
  - 4800 Acres
  - 31 Existing Wells
  - 8 Increased Density Wells

# San Juan 27-5 Unit Reservoir

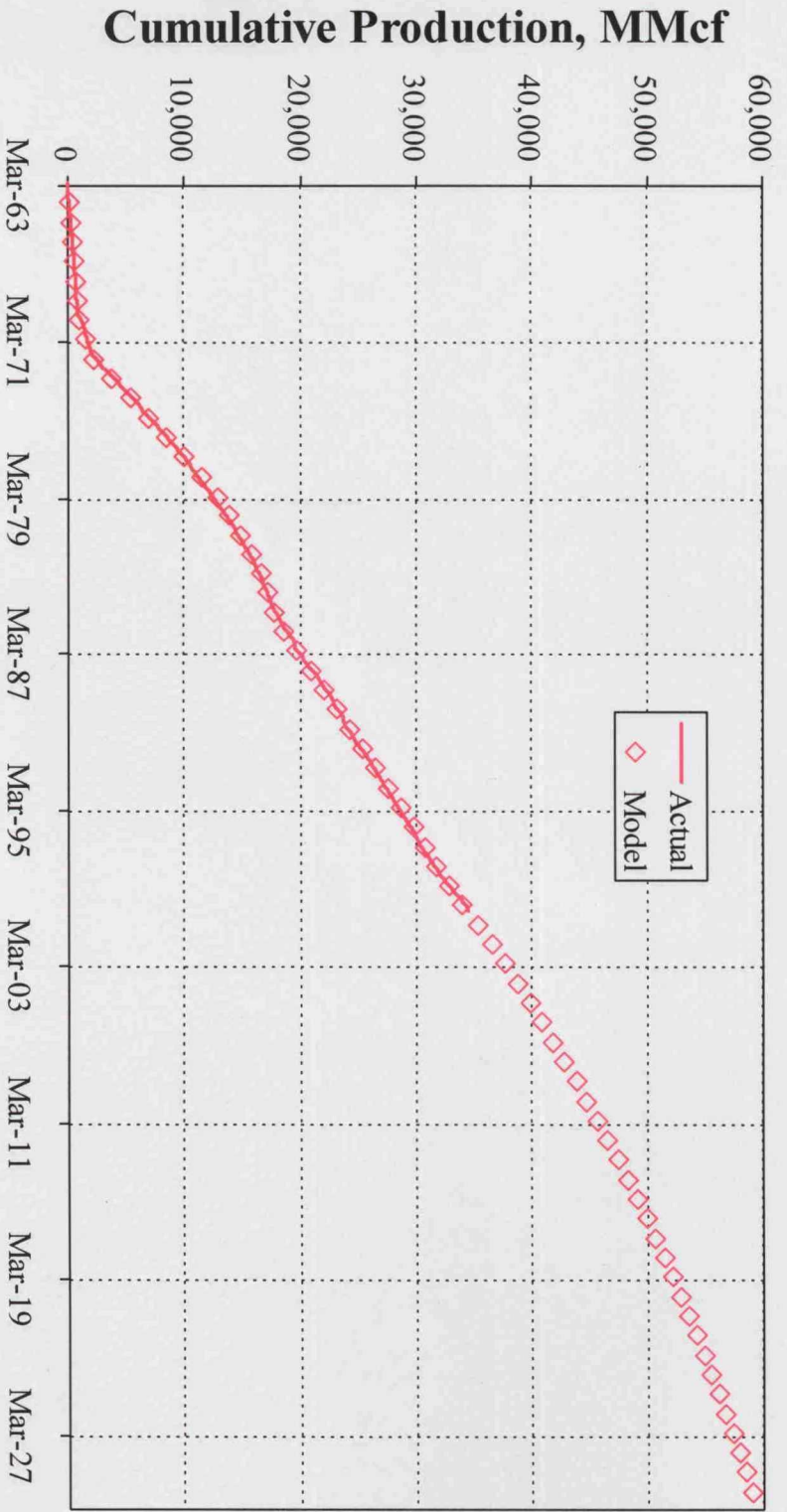
## Simulation Inputs

- Porosity, Thickness, and Water Saturation Maps Input into Simulator
  - Two Wells
    - 10% Porosity, 40% Sw, 15' Thickness
  - Paguate
    - 1% Porosity, 96% Sw, 1' Thickness
  - Cubero
    - 9% Porosity, 46% Sw, 11' Thickness
  - Lower Cubero
    - 9% Porosity, 20% Sw, 25' Thickness
- Initial Pressure of 3,085 psi

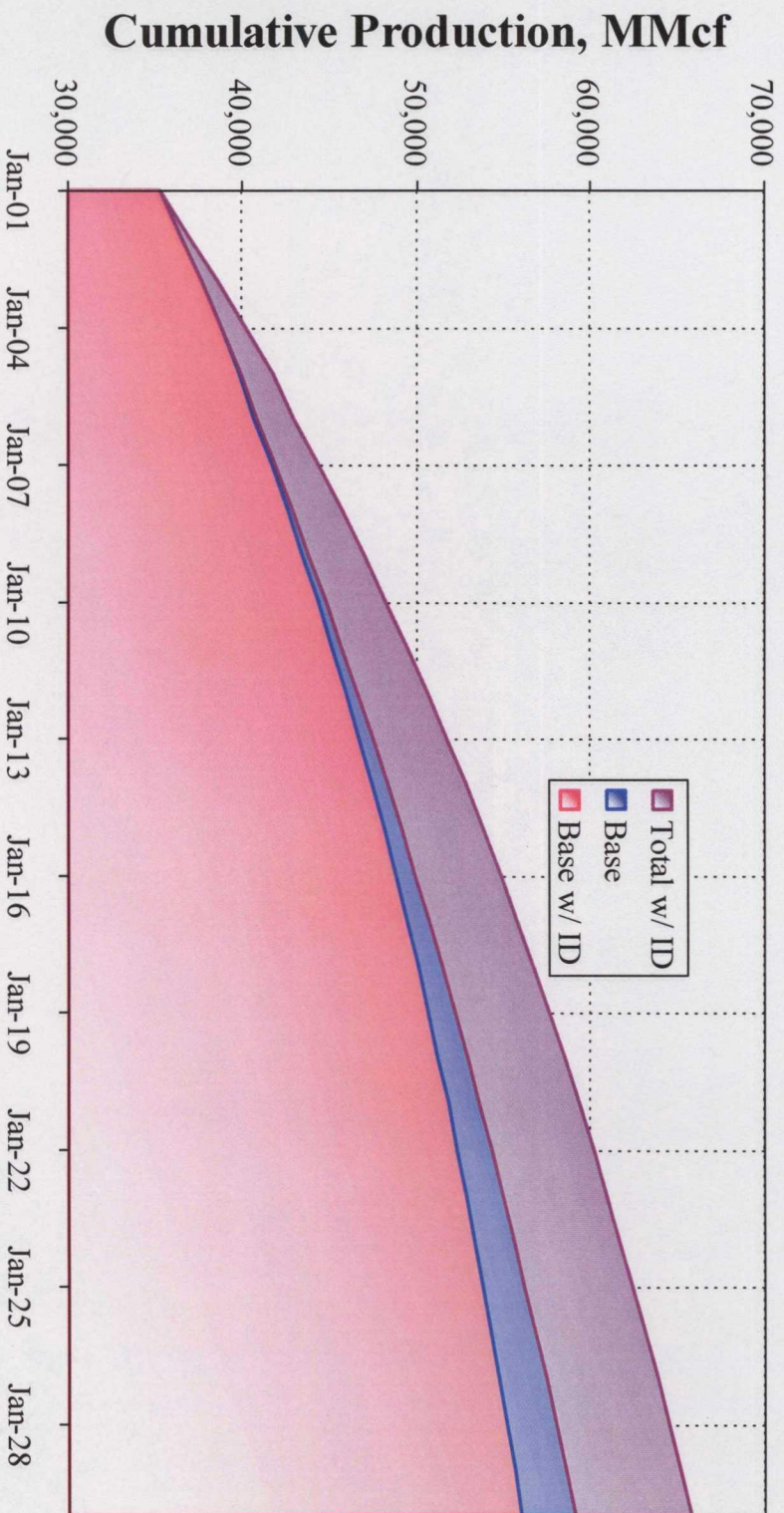
# San Juan 27-5 Simulation Grid



# SJ 27-5 History Match and Base Projection

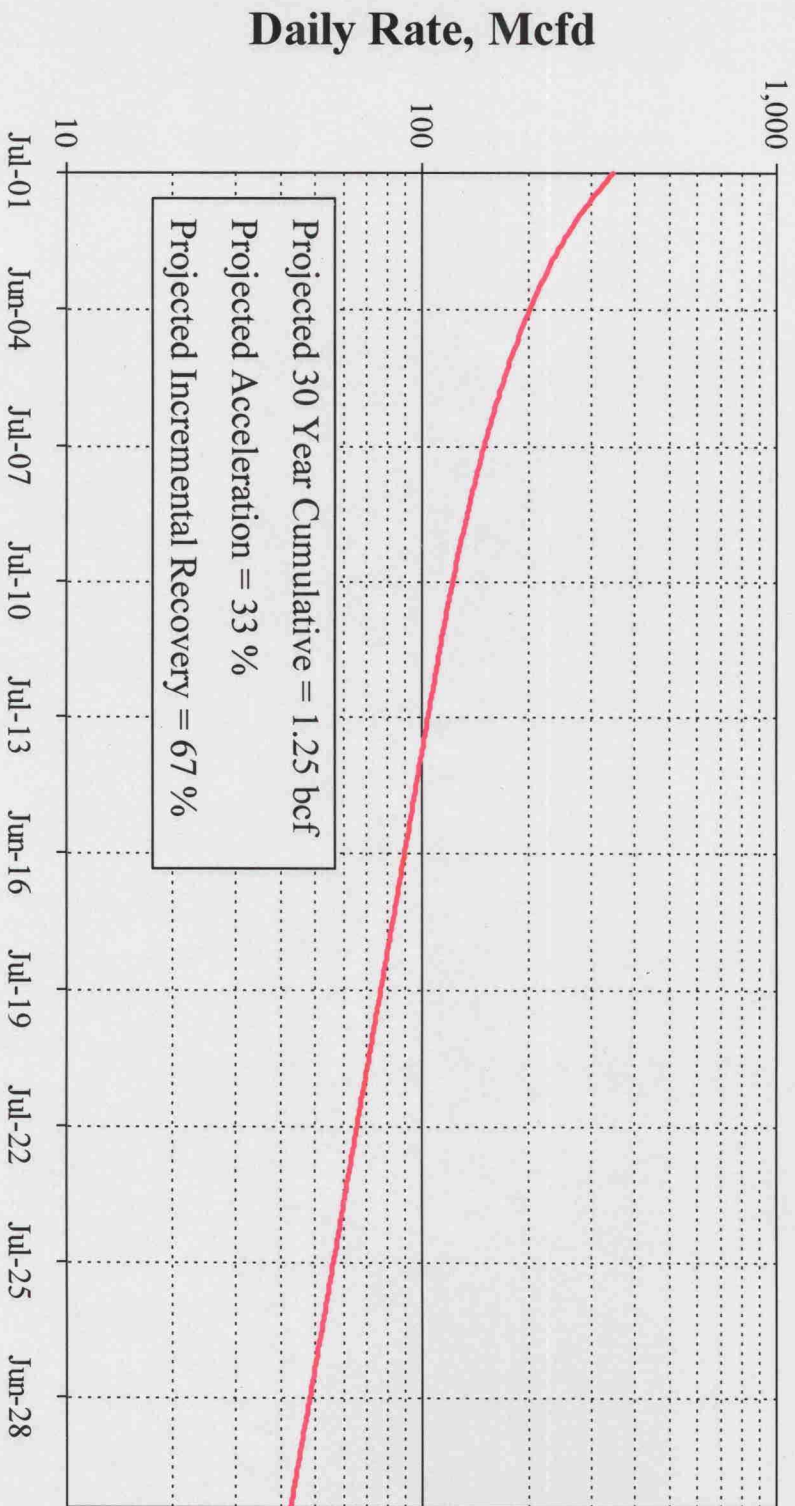


# SJ 27-5 Unit Increased Density Recovery Profile



65.8 Bcf  
59.0 Bcf  
55.9 Bcf

# SJ 27-5 Unit Individual Well Projection



# SJ 27-5 Unit Increased Density

## Economics

### Assumptions

- \$600M Well Cost
  - \$450M Intangible
  - \$150M Tangible
- \$700/month Op Cost
- \$3.00/Mcf Gas,  
\$30.00/Bbl Oil
  - No Escalation

### Results

- 22% RoR
- 0.43 P/I
- 4.1 yr payout
- \$0.59/Mcfe CTA