# PETROGRAPHY OF TRENTON/BLACK RIVER CARBONATE RESERVOIRS, APPALACHIAN BASIN

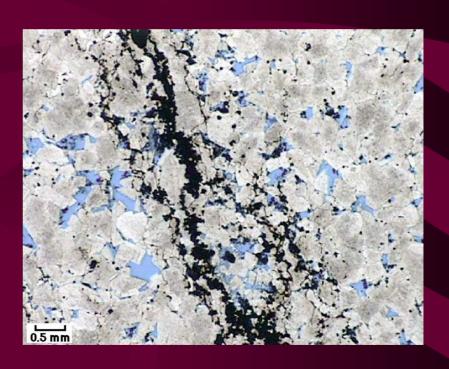
#### PETROGRAPHY - PURPOSE

- Enhance field studies and core descriptions:
  - Identification of constituent grains
  - Detailed classification of reservoir rocks
  - Interpretation of depositional environments

- Diagenesis
  - Timing of significant diagenetic events (i.e., cementation or secondary porosity development relative to the emplacement of hydrocarbons)

#### PETROGRAPHY - PURPOSE

- Frame of reference for geochemical studies
  - Dolomitization processes:
    - Stable isotopes
    - Fluid inclusions
    - 87Sr/86Sr
    - Trace elements
  - Source rock studies



### CORE AND OUTCROP SAMPLING PROGRESS AS OF JUNE, 2004







## DOLOMITIZED, BIOTURBATED MUDSTONE AND WACKESTONE











