Trenton/Black River Production Trends and History

• Geographic trends tied to geology
• Identifying fairways for future play development
• Identifying key wells
• Historical trends
• Resource assessment
Current Status

- Extensive dataset from OH, KY, NY
- Data from PA, WV limited
- Some mapping and graphing for data from OH, NY
Geographic Trends
Trenton/Black River Wells in Ohio

Size of Circle proportional to Cumulative Production
Trenton/Black River Wells in Ohio

Trend Surface

Look for:

- Regional patterns that match geologic features
- Production “outliers” that do not fit regional trends
History
(including Ultimate Recovery)
Estimating Ultimate Recovery in Ohio

Annual-Cumulative Production Graphs

OH Trenton Gas Production

Intercept = 7,882,866 Mcf

Cumulative Production

Annual Production
Estimating Ultimate Recovery in Field “1”
Estimating Ultimate Recovery in Field “1”

OH Trenton Gas Production: Field "1"

Intercept = 762,000 Mcf
Estimating Ultimate Recovery in Field “2”
Estimating Ultimate Recovery in Field “2”

OH Trenton Gas Production: Field "2"

Intercept = 34,000 Mcf
Estimating Ultimate Recovery from Annual-Cumulative Plots

- Easy to construct, *but*
- Assume no new (large) field discoveries and reserve growth
Future

• Decide on method: meeting among interested project members, USGS, and possibly industry expert

• Update data obtained from states

• Complete resource assessment