Union Springs Member:
• Weak preferred orientation
• Clay flakes
• Silt-sized quartz grains
• Palynomorphs

Cherry Valley Member:
• Random orientation
• Very fine-grained
• Few, silt-sized grains
• Shell fragments
• Limited porosity

Textural features of the Marcellus Shale

Oakta Creek Member:
• Random orientation
• Large clay flakes
• Bioturbation evident
• Abundant porosity

DM '10