Proved Reserves

Gas Prospectivity based on %TOC, %Ro and location relative to Reelfoot Rift

*Proved reserves are a combination of operator estimates reported for the EIA-23

Total Organic Carbon % (Depth-averaged in Fayetteville Pay Zone)

Franklin

Washington

Fayetteville Shale, Arkoma Basin, Arkansas

Key Geologic Features

Surface Locations of Fayetteville Shale Gas Wells
Dry / Plugged and Abandoned Fayetteville Wells
Total Organic Carbon % (Depth-averaged in Fayetteville Pay Zone)
Structure of Fayetteville (Foot Below Sea Level)
Thermal Maturity of Fayetteville from Vitrinite Reflectance (% Ro)

Structural Features

Normal Fault (Gleiss on Downthrown Block)
Thrust Fault (Gleiss on Upper Plate)
Gas Prospectivity based on %TOC, %Ro and location relative to Reelfoot Rift

High Ro (3-5.2 %, TOC = 1% and East of Reelfoot Rift)
Low Ro (3-3.8 %, TOC = 1% and East of Reelfoot Rift)

Arkoma Basin Boundary

Fayetteville Shale, Arkoma Basin, Arkansas

Surface Location of Gas Wells By Year of First Production

Arkoma Basin Stratigraphy

From Southwest Energy Company (2005)

Typical Well Log Through Fayetteville Shale and Adjacent Units (depth in feet)

From Ratcliff et al (2006)