

# TECHNICAL SEMINAR

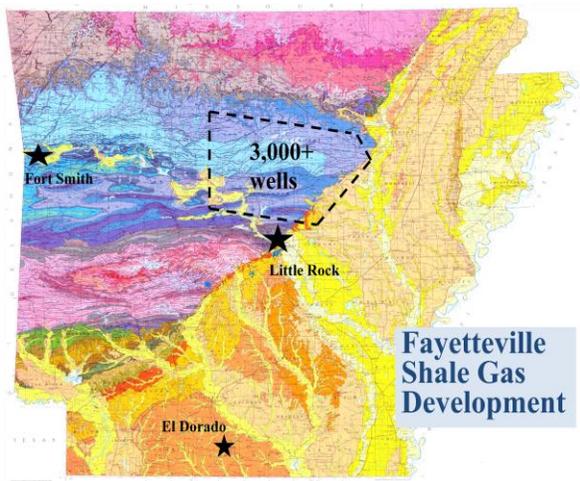
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## USGS Studying the Water Resources of the Fayetteville Shale Area

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Since 2001, more than 3,000 wells have been drilled in north-central Arkansas to extract natural gas from the Fayetteville Shale—which is the 4<sup>th</sup> largest recoverable gas play in the United States. Concerns over the possible effects of gas development on water resources in Arkansas have prompted the USGS and various agencies to begin monitoring and computer modeling studies.

The USGS Arkansas Water Science Center involvement began in 2009 with water-quality and streamflow monitoring at several stream and lake sites in Arkansas to establish a baseline for determining trends in water quality and quantity. USGS is developing a computer watershed model of the hydrologic processes within a soon to be heavily explored stream basin. A study to sample springs and groundwater resources has begun.



**Wednesday, April 20, 2011**  
**10:00 am**  
**Room 5A217**

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