



# AAPG

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## BULLETIN

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**ON COVER** – The inner workings of an Appalachian Basin gas geosystem exposed at Taughannock Falls State Park, NY. The Givetian Genesee (Burket) black shale is overlain by the Sherburne and Renwick gray shale of the Ithaca Formation. J<sub>1</sub> joints driven by early gas generation strike parallel to streambed (ENE) in the black shale. J<sub>2</sub> joints from late gas generation cut into the gray shale toward the NNW. J<sub>1</sub> joints are best developed in the starved section at the base of the black shale at stream level with few growing upward as far as the gray shale. J<sub>2</sub> joints are intensely developed just above the black-gray shale contact (covered by mast head). This view is looking west with an outcrop height > 300 feet. See related article by T. Engelder et al. on p. 857 of this issue of the *Bulletin*. Photo by Terry Engelder.

### E&P NOTE

*Joint sets that enhance production from Middle and Upper Devonian gas shales of the Appalachian Basin*  
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