E & P NOTE

Play analysis and leading-edge oil-reservoir development methods in the Permian basin: Increased recovery through advanced technologies
Shirley P. Dutton, Eugene M. Kim, Ronald F. Broadhead, William D. Raatz, Caroline L. Breton, Stephen C. Ruppel, and Charles Kerans

Dolomitization, anhydrite cementation, and porosity evolution in a reflux system: Insights from reactive transport models
Gareth D. Jones and Yitian Xiao

Laboratory deformation of granular quartz sand: Implications for the burial of clastic rocks
Stephen L. Karner, Judith S. Chester, Frederick M. Chester, Andreas K. Kronenberg, and Andrew Hajash Jr.

Transient fan architecture and depositional controls from near-surface 3-D seismic data, Niger Delta continental slope
Adedayo A. Adeogba, Timothy R. McHargue, and Stephan A. Graham

Scales of lateral petrophysical heterogeneity in dolomite lithofacies as determined from outcrop analogs: Implications for 3-D reservoir modeling
Matthew J. Pranter, Colette B. Hirstius, and David A. Budd

REGULAR ARTICLES

ON COVER—Image of Sheep Mountain located approximately 5 mi (8 km) northeast of Greybull, Wyoming, in the Bighorn basin. Sheep Mountain is a doubly plunging anticline that has been eroded to expose the structure and associated strata. The Bighorn River flows to the northeast through Sheep Canyon (below the “U” in BULLETIN). The image was produced by Ryan Crow, Department of Geological Sciences, University of Colorado at Boulder. It is a perspective view to the south created by draping U.S. Geological Survey color-infrared (CIR) digital orthophoto quarter quads (DOQQ) over digital elevation model (DEM) data. See related paper by Matthew J. Pranter, Colette B. Hirstius, and David A. Budd on the Madison Formation beginning on p. 645 of this issue of the Bulletin.

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