



AAPG | BULLETIN

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REGULAR FEATURES

Previews	ii
Staff Editors	iii
Association	iv
House of Delegates	vi
Geoscience Meetings Calendar	806
Instructions to Authors	830
Education Calendar	926

ON COVER – Outcrop of the northern flank of the Valsorda valley in the dolomitized Latemar Platform (Dolomites, northern Italy). The brown color of the hydrothermal dolomite stands out versus the gray limestone showing the complex geometry and distribution of dolomite bodies. This color difference is used to objectively and quantitatively describe the distribution of dolomite and limestone on a high resolution colored three-dimensional digital outcrop model and create a three-dimensional variography description. The resulting description confirmed the inferred dolomitization process and shows the controls (dikes, stratigraphy) on the dolomite body geometry and distribution on different scales. This approach also allows direct implementation of outcrop lithology information into reservoir modelling workflows. The image on the back cover shows the dolomite (yellow) and limestone (gray) distribution in a reservoir model, eroded by the current topography. See related article by Jacquemyn et al., p.957 of this issue of the *Bulletin*.

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GEOHORIZON

<i>Evaluation of the compositional changes during flooding of reactive fluids using scanning electron microscopy, nano-secondary ion mass spectrometry, x-ray diffraction and whole-rock geochemistry</i> Udo Zimmermann, Merete Vadla Madland, Anders Neremoen, Tania Hildebrand-Habel, Silvana A. R. Bertolino, Aksel Hiorth, Reidar I. Korsnes, Jean-Nicolas Audinot, and Patrick Grysan	791
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ARTICLES

<i>Hydrocarbon-induced diagenetic alteration of the Permian White Rim Sandstone, Elaterite Basin, southeast Utah</i> Marko A. Gorenc and Marjorie A. Chan	807
<i>Factors controlling petroleum accumulation and leakage in overpressured reservoirs</i> Fang Hao, Weilin Zhu, Huayao Zou, and Pingping Li	831
<i>The Paleozoic Hudson Bay Basin in northern Canada: New insights into hydrocarbon potential of a frontier intracratonic basin</i> Denis Lavoie, Nicolas Pinet, Jim Dietrich, and Zhuoheng Chen	859
<i>Spontaneous potential: Key to understanding continuous and conventional gas in Upper Cretaceous sandstones, deep eastern Greater Green River Basin, southwest Wyoming</i> Charles E. Bartberger and Ira Pasternack	889
<i>From shale oil to biogenic shale gas: retracing organic-inorganic interactions in the Alum Shale (Furongian–Lower Ordovician) in southern Sweden</i> Hans-Martin Schulz, Steffen Biermann, Wolfgang van Berk, Martin Krüger, Nontje Straaten, Achim Bechtel, Richard Wirth, Volker Lüders, Niels Hemmingsen Schovsbo, and Stephen Crabtree	927
<i>Multi-scale three-dimensional distribution of fracture- and igneous intrusion-controlled hydrothermal dolomite from digital outcrop model, Latemar platform, Dolomites, northern Italy</i> Carl Jacquemyn, Marijke Huysmans, Dave Hunt, Giulio Casini, and Rudy Swennen	957

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