

# PREVIEWS

<b>Water chemistry and rock properties</b>	<i>Rock–water reactions should always be studied to understand the impacts since geochemical interactions between shale and hydraulic fracturing fluid may affect produced water chemistry and rock properties. SEM observations on ion-milled shale surfaces quantify mineral reactions. . . . .</i>	<i>1567</i>
<b>Quantitative shale character data from outcrop exposures</b>	<i>The difference in shale anisotropy, fraction, and frequency in tidally-influenced point bar deposits of the Ferron Sandstone highlights the need to predict shale character in fluvio-tidal reservoirs. This study evaluates shale beds and drapes in tidally-influenced channels. . . . .</i>	<i>1599</i>
<b>Mudstone facies define sequence stratigraphic surfaces</b>	<i>This study shows that black shales in the Williston Basin, North Dakota, have a basin-wide correlative fine-scale internal architecture, and that sequence stratigraphic principles developed for coarse-grained proximal sedimentary rocks can be applied to mudstone systems. . . . .</i>	<i>1625</i>
<b>Fractures in the Ozark Plateau</b>	<i>This paper presents the results of a fracture analysis in Mississippian carbonates of the Ozark Plateau, Arkansas, by developing a fracture stratigraphy for the succession and contrasting it with present-day mechanical stratigraphy. Fracture orientation has a distinct evolution throughout the measured succession. . . . .</i>	<i>1675</i>
<b>Modeling heat flow</b>	<i>It is challenging to use surface heat flow to provide an estimate for basement heat flow. This paper assesses surface heat flow in order to calibrate basin models. The thermal impact of sediment deposition appears to be at least as important as rifting-induced basement heat flow variations. . . . .</i>	<i>1697</i>
<b>Multiple dolomitization events</b>	<i>In the Kuff-C reservoir, Saudi Arabia, tidal-flat facies are the most dolomitized while shoal grainstones are the least dolomitized. There are 3 main replacive dolomite fabrics: fabric-preserving mimetic dolomite, fabric-preserving nonmimetic dolomite, and fabric-destructive dolomite. . . . .</i>	<i>1715</i>

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