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ON COVER – Aerial photograph of the sandy braided South Saskatchewan River, Canada with a digital elevation model (DEM) partly draped over the bottom and left areas of the image (blue represents deeper parts of the braidplain and red higher parts of the reach). The image was taken near Outlook, the studied reach described in the classic paper by Cant and Walker (1978). The photograph and DEM show superb resolution of lobate fronted unit bars and larger compound bars as well as a variety of dune bedforms. Flow in the image is bottom to top, although note the wide range of dune crest orientations. See related paper on by Lunt et al. on p. 553 of this issue of the Bulletin.

GEOHORIZON

ARTICLES

Deposits of the sandy braided South Saskatchewan River: Implications for the use of modern analogs in reconstructing channel dimensions in reservoir characterization lan A. Lunt, Gregory H. Sambrook Smith, James L. Best, Philip J. Ashworth, Stuart N. Lane, and Christopher J. Simpson 553 Diagenesis and quartz cement distribution of low-permeability Upper Triassic-Middle Jurassic reservoir sandstones, Longyearbyen CO2 lab well site in Svalbard, Norway 577 Measuring and modeling fault density for CO2 storage plume-fault encounter probability estimation Preston D. Jordan, Curtis M. Oldenburg, and Jean-Philippe Nicot 597 Insight into petrophysical properties of deformed sandstone reservoirs Anita Torabi, Haakon Fossen, and Alvar Braathen Evidence for overpressure generation by kerogen-to-gas maturation in the northern Malay Basin Mark R. P. Tingay, Chris K. Morley, Andrew Laird, Orapan Limpornpipat, Kanjana Krisadasima, 639

ACKNOWLEDGMENTS-

AAPG thanks

ExxonMobil Upstream Research Company;
University of Birmingham;
Norwegian University of Science and Technology;
and the AAPG Foundation
for financial support of this issue of the *Bulletin*.