

# PREVIEWS

<b>Another choice in well test analysis</b>	<i>An unsteady-state diffusion model was developed to describe gas transport in coal structures for horizontal well production. This model is different from the coal-bed methane vertical well model with unsteady-state diffusion and the coal-bed methane horizontal well model with pseudosteady-state diffusion . . . . .</i>	1669
<b>Lacustrine basins are understudied</b>	<i>The purpose of this study in the Uinta Basin, Utah, is to identify the principle depositional environments of the lower and middle Green River Formation as well as diagnostic wireline log responses and to interpret depositional environments in the subsurface . . . . .</i>	1699
<b>Not just an academic curiosity</b>	<i>The distribution, cross-sectional geometry, and throw characteristics of polygonal faults can be used to locate deep-water sandstone reservoirs. Data from the Måløy Slope, offshore Norway, show that the slope-fan sandstone acts as a mechanical barrier to downward fault propagation. . . . .</i>	1717
<b>Gamma rays and source rocks</b>	<i>The regional Upper Devonian–Mississippian stratigraphic framework of the Arkoma Basin, Arkansas and Oklahoma, and patterns of potential source-rock richness using high gamma-ray response are described. Isopach maps are used to analyze their spacial distribution. . . . .</i>	1739
<b>A theoretical model</b>	<i>Gas depletion under in situ boundary conditions in producing reservoirs causes a volumetric response of sorptive porous media. This paper presents a theoretical model for shrinkage or swelling compressibility for sorbing gases under a uniaxial strain condition . . . . .</i>	1761
<b>Promising results</b>	<i>The shrinkage or swelling compressibility, measured under unconstrained conditions, is pressure dependent. The pore volume compressibility under uniaxial strain is a constant positive value. The proposed volume compressibility model predicted this variation well . . . . .</i>	1773
<b>Predicting properties of geobodies</b>	<i>The dimension of structurally controlled dolomite geobodies is controlled by the distribution and three-dimensional geometry of faults or fractures. Understanding the character and conductivity of the fracture network at the time of dolomitization is key in predicting the distribution of these dolomite geobodies . . . . .</i>	1789
<b>Improving reservoir prediction</b>	<i>Stratigraphic forward modeling combined with inverse methods could be an additional tool to support conventional play-based exploration and reservoir presence prediction. This method is useful in the early stages of exploration to define sweet spots for more detailed exploration . . . . .</i>	1811
<b>Using seep alterations in exploration</b>	<i>Subsurface migration pathways of hydrocarbon seeps show distinctive alterations such as the formation of gypsum and native sulfur, secondary gypsum and calcite, and depletion of <sup>34</sup>S and <sup>13</sup>C. These alterations are indicative of underlying reservoirs . . . . .</i>	1837
<b>Amplitude anomalies explained</b>	<i>Vertically stacked amplitude anomalies in the East Falkland basin represent direct hydrocarbon indicators and are associated with the presence of free gas. They are referred to in this paper as vertical anomaly clusters and were formed by strongly focused vertical hydrocarbon migration . . . . .</i>	1859
<b>More research is needed</b>	<i>Triassic mudstones of the Junggar Basin, northwest China, contain 1% TOC, and the organic matter, derived mainly from terrestrial higher plants, is predominantly type III kerogen. These sediments have a potential for hydrocarbon generation, mostly gas, during the lake flooding stage. . . . .</i>	1885

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J. Dombrowski\*  
S. A. Earle  
L. G. Eubanks  
S. L. Getz  
T. Y. Ghazi  
G. M. Gillis  
K. S. Glaser  
L. K. Goetz  
P. T. Gordon  
J. M. Grubb  
P. F. Hoffman  
W. F. Howell  
I. P. Immege  
J. E. Jordan  
B. J. Katz  
R. Laidacker  
S. D. Levine  
N. C. Lian  
C. P. Ludwig  
P. J. McCarthy  
J. D. McCullough  
E. A. Medvin  
D. M. Moore  
R. L. Nagy  
W. D. Neville  
R. E. Pledger  
J. V. Richards  
W. C. Riese  
D. K. Sacrey  
P. A. Santogrossi  
S. M. Sartain  
R. C. Scheidemann  
S. G. Stanley  
C. A. Sternbach  
L. R. Sternbach  
D. M. Stone  
M. S. Winsten

### IDAHO

D. H. Hawk

### ILLINOIS

J. Crockett

### INDIANA

J. D. Grigsby

### INDIANA-KENTUCKY

J. T. Smith

### KANSAS

R. D. Cowdery  
D. V. Davis, Jr.

### KENTUCKY

P. J. Gooding

### LAFAYETTE (LA)

T. A. Helms  
G. K. P. Munson, Jr.

### LATIN AMERICA

C. L. Archie  
K. Bayer  
G. Bayona  
G. J. Carstens  
J. M. de Armas Pedraza  
F. T. T. Goncalves  
X. R. Moonan

### LOS ANGELES (CA)

D. D. Clarke  
W. T. Long

### MICHIGAN BASIN

R. H. Gillespie, Jr.  
W. B. Harrison, III

### MISSISSIPPI

M. N. Birdwell

### MISSOURI

W. Yang

### MONTANA

R. P. Diedrich

### NEBRASKA

P. C. Grew

### NEVADA

A. D. Hanson

### NEW MEXICO

M. E. Dowse

### NEW ORLEANS

A. H. Johnson  
B. E. Reilly  
S. A. Waters  
W. M. Whiting\*

### NEW YORK

S. A. Epstein  
L. B. Smith

### NORTH DAKOTA

J. M. Levy

### NORTH TEXAS

C. W. Reynolds

### NORTHERN CALIFORNIA

J. R. Gilbert, Jr.  
D. W. Lewis  
R. G. Lindblom

### NORTHERN OHIO

I. D. Sasowsky

### NORTHWEST (OR/WA)

J. M. Armentrout  
N. J. Fix

### OHIO

L. H. Wickstrom  
S. P. Zody

### OKLAHOMA CITY

D. G. Campbell  
H. W. Hanke  
T. L. Hollrah  
L. W. Holman, II

J. R. Howell  
H. W. Peace, II  
M. W. Smith

### PANHANDLE (TX)

J. F. O'Connell

### PITTSBURGH (PAPG)

R. A. Trevail

### PITTSBURGH (PGS)

D. A. Billman  
A. A. Reynolds

### ROCKY MTN. (CO)

C. E. Brown, II  
S. Cluff  
S. P. Cumella  
J. J. Cuzella  
E. D. Dolly  
S. M. Goolsby\*  
J. E. Harris  
L. A. M. Johnson  
W. E. Johnson  
B. S. Kelso  
S. G. Kirkwood  
C. J. N. Knight  
S. M. Landon  
J. C. Mullarkey  
R. R. Ray  
S. A. Sonnenberg

### ROSWELL (NM)

D. B. Coddling

### SACRAMENTO (CA)

S. T. Hector

### SAN ANGELO (TX)

B. R. Swartz

### SAN JOAQUIN (CA)

A. C. Draucker  
L. C. Knauer  
S. Mazzoni

### SHREVEPORT (LA)

O. R. Berg

### SOUTH TEXAS

T. J. McGovern  
B. R. Weise  
M. A. Younger

### SOUTHEASTERN (FL)

G. H. Means

### TULSA (OK)

D. G. Burdick  
N. J. Hyne  
K. L. Luchtel Ferguson  
J. S. McGray

### UTAH

T. H. Morris

### WASHINGTON (DC)

J. F. Allan  
C. A. Doolan  
C. S. Swezey

### WEST TEXAS

D. W. Cromwell

### WYOMING

T. C. Anderson  
L. M. Kozimko