Cherokee Workshop Meets May 14-15

Finding and Producing Cherokee Reservoirs in the Southern Midcontinent meets at the Meridian Convention Center in Oklahoma City on May 14 and 15. The papers and poster sessions scheduled for the meeting are designed to identify practical techniques and technology to help find new hydrocarbons and efficiently produce more oil from existing fields. This workshop is co-sponsored by the National Petroleum Technology Laboratory of the U.S. Department of Energy, along with cooperation from PTTC, and is the 15th in the annual series of petroleum-based workshops organized by the OGS.

These important Cherokee sandstones produce across most of the state and are responsible for approximately 15% of the gas and more than 50% of the oil found thus far. So don’t miss this informative meeting!

The workshop will consist of approximately 20 oral papers, 15 poster sessions, and 10 commercial exhibits. Thirty minutes will be allotted to each presentation, including questions. Extra time will be set aside after the sessions to ensure that all issues are addressed. A sample of planned papers includes:

Red Fork Sandstone of Oklahoma; Depositional History, Sequence Stratigraphy and Reservoir Distribution, by Richard D. FRITZ, American Association of Petroleum Geologists, Tulsa, OK, and Edward A. BEAUMONT, Consultant, Tulsa, OK

A Deposition and Reservoir Model for the Prue Sandstone in the Southwest Oklahoma City Area, by John R. BROKER, Helmerich and Payne, Inc., Tulsa, OK, Les J. BROKER, Consultant, Edmond, OK, and Thomas N. CAPUCILDE, Consultant, Edmond, OK

The East Clinton Gas Field A Seismic-Stratigraphic Case Study, by Richard E. SCHNEIDER, Schneider Strata Science, Inc., Oklahoma City, OK

Gas in an Incised Valley, Upper Cherokee Age, Eastern Kansas, by William T. STOECKINGER, Geological Consultant, Bartlesville, OK

Dipmeter Navigation of the Location and Orientation of a Cherokee Sandstone Reservoir; A Kansas Case Study, by John H. DOVETON, Kansas Geological Survey, Lawrence, KS

Red Fork Production in the Checotah and Wakita Trends in Grant and Alfalfa Counties, North-Central Oklahoma; Is the Reservoir a Fluvial Incised Channel or Marine Shoreline System, and Who Cares?, by Richard D. ANDREWS, Oklahoma Geological Survey, Norman, OK

Development of Transition Zone Reserves Around Abandoned Production, A Case Study of Mount Vernon Field, Lincoln County, Oklahoma, by David CHERNICKY and Scott T. SCHAD, Cherneco Exploration, Tulsa, OK

(see WORKSHOP—page 4)
Paraffin Problems and Hot Oilers

Bottom Line: Hot oilers have been used extensively to melt paraffin off rods and tubing in high paraffin producing wells. Paraffin begins to come out of solution and deposit on tubulars as the wellbore temperature drops over time and production.

Problem: A widespread practice is to dump heated crude down the annulus. This process has been shown to plug perforations, pore spaces, and completely block near well-bore rock.

Solution: Several products are available on the market today. Xylene is the most common. However, this is usually expensive and has been known to precipitate solids in some formations. A new product with potential for treating paraffin problems has been showing up under several trade names. Modified Sodium Silica Polymer was first used to strip oil out of cotton fibers and later was approved by the FDA to strip oil out of peanuts. Someone treated a paraffin problem in an oil well and experienced favorable results. Actual research by major chemical companies is very limited, if nonexistent. As more treatments are done using this product, more documentation will come forth.

Another product that shows much promise is PEC, which is marketed by a company in Houston. They have generated the longest, most complete documentation of results of any company or product in recent months.

Sam Farris
Technology Transfer Coordinator,
Marginal Well Commission of Oklahoma

Naturally Fractured Reservoirs Conference

The Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma and the Oklahoma Geological Survey have scheduled a Naturally Fractured Reservoir Conference to be held in Oklahoma City June 3-4, 2002. This conference will focus on exploration and production issues related to efficiently developing and producing naturally fractured reservoirs.

The conference is designed to bring together geoscientists, engineers, and operating personnel to share the latest technology and experiences for exploiting naturally fractured reservoirs.

Sponsors for the meeting are Phillips Petroleum, Kerr-McGee, Anadarko Petroleum, Marathon Oil Co., and EOG Resources. This gathering provides an open forum for an interdisciplinary exchange of information and presentation of state-of-the-art technology for producing naturally fractured reservoirs.

The two-day conference will be held at the Meridian Convention Center in Oklahoma City and will feature technical presentations covering a variety of issues including seismic interpretation, reservoir description, formation evaluation, matrix to fracture flow mechanisms, and reservoir performance of naturally fractured reservoirs.

Technical program and registratio-

(see RESERVOIRS—page 4)
## Upcoming Events

### April

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>4/9</td>
<td>Asphaltene &amp; Paraffin Problems, Duncan, *MWC, PTTC</td>
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<td>4/10</td>
<td>Asphaltene &amp; Paraffin Problems, Oklahoma City, *MWC, PTTC</td>
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<td>4/11</td>
<td>Asphaltene &amp; Paraffin Problems, Tulsa, *MWC, PTTC</td>
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<tr>
<td>4/16</td>
<td>SPE/DOE Symposium on Improved Oil Recovery, Tulsa, OGS, PTTC, more information at <a href="http://www.nptd.doe.gov/ior">http://www.nptd.doe.gov/ior</a>; or fax 918/699-2048</td>
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<td>4/23</td>
<td>Bartlesville Play Workshop, Oklahoma City, *OGCS, OGS, PTTC</td>
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<td>4/25</td>
<td>Bartlesville Play Workshop, Tulsa, *TGS, OGS, PTTC</td>
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### May

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<td>5/2</td>
<td>Legal &amp; Regulatory Issues as Related to Oil &amp; Gas, Duncan, *MWC, PTTC</td>
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<tr>
<td>5/9</td>
<td>Legal &amp; Regulatory Issues as Related to Oil &amp; Gas, Oklahoma City, *MWC, PTTC</td>
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<tr>
<td>5/14-15</td>
<td>Finding and Producing Cherokee Reservoirs in the Southern Midcontinent, Oklahoma City, *OGS, DOE, PTTC</td>
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<td>5/16</td>
<td>Legal &amp; Regulatory Issues as Related to Oil &amp; Gas, Woodward, *MWC, PTTC</td>
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<td>5/21</td>
<td>Legal &amp; Regulatory Issues as Related to Oil &amp; Gas, Tulsa, *MWC, PTTC</td>
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### June

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<th>Date</th>
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<tr>
<td>6/3-4</td>
<td>Petroleum and Geological Engineering Symposium, Oklahoma City, *OGS</td>
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<td>6/14</td>
<td>Trade Fair, Tulsa, *MWC, PTTC</td>
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<td>6/19</td>
<td>Red Fork Play Workshop, Oklahoma City, *OGCS, OGS, PTTC</td>
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<td>6/20</td>
<td>Red Fork Play Workshop, Tulsa, *TGS, OGS, PTTC</td>
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<tr>
<td>6/24-25</td>
<td>Practical Reservoir Characterization for the Independent Operator, Norman, *OGS, PTTC</td>
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### August

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<th>Date</th>
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<tr>
<td>8/5</td>
<td>Plunger Lift Operations, Duncan, *MWC, PTTC</td>
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<td>8/6</td>
<td>Plunger Lift Operations, Oklahoma City, *MWC, PTTC</td>
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<td>8/7</td>
<td>Plunger Lift Operations, Tulsa, *MWC, PTTC</td>
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<tr>
<td>8/8</td>
<td>Plunger Lift Operations, Woodward, *MWC, PTTC</td>
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### September

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<tr>
<td>9/5</td>
<td>OCC/OTC Forms for Oil and Gas Operations, Duncan, *MWC, PTTC</td>
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<tr>
<td>9/12</td>
<td>OCC/OTC Forms for Oil and Gas Operations, Oklahoma City, *MWC, PTTC</td>
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<tr>
<td>9/18, 19</td>
<td>Identification, Correlation of Methane-Producing Coal Beds, Northeast Oklahoma Shelf, Tulsa, OGS, *TGS, PTTC</td>
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<tr>
<td>9/19</td>
<td>OCC/OTC Forms for Oil and Gas Operations, Tulsa, *MWC, PTTC</td>
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<tr>
<td>9/24</td>
<td>Identification, Correlation of Methane-Producing Coal Beds, Northeast Oklahoma Shelf, Oklahoma City, OGS, *OGCS, PTTC</td>
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*OGS=Oklahoma Geological Survey, 405/325-3031 or 800/330-3996  
*MWC=Marginal Wells Commission, 405/366-8688; 800/390-0460  
*GIS=Geological Information Systems, 405/325-3131  
*OGCS=Oklahoma City Geological Society 405/236-8086 or 405/235-3648, ext. 40  
*TGS=Contact Richard Piquette, 918/582-2690
RESERVOIRS—continued

tion details for the conference are being finalized and will be available on
the website of the Mewbourne School of Petroleum and Geological Engineering at
http://www.ou.edu/mewbourneschool.
Fees for the two-day conference will be approximately $75 and include
lunch on both days of the conference. The Meridian Convention Center is
located near Will Rogers World Airport in Oklahoma City and overnight
accommodations are available nearby. Additional information may be obtained
by contacting conference chair Michael L. Wiggins at 405/325-6781 or
mwiggins@ou.edu. Planned papers include:
Geologic and Fluid Pressure Histories of the Midland Basin: Evaluation of
Forces Responsible for Fracturing
Brian McPherson and David Boutt, New Mexico Tech
The Origin of Natural Fracturing
Parker Gay, Applied Geophysics
Integrating NMR, Neutron-Density, and Resistivity Logs to Detect Natural
Fractures
Witsanu Thungsunthonkun and Tom Engler, New Mexico Tech
Improving Waterflow Performance in the Naturally Fractured Spraberry
Trend Area
Tanvir Chowdhury, Goke Dabirr, Erwinsyah Putra, and David Schecter,
Texas A&M
Improving Waterflow and CO2 Pilot Performances in the Naturally Fractured
Spraberry Trend Area, West Texas
David Schecter, Erwinsyah Putra, Bill Knight, Paul Leonard, and Richard
Baker, Texas A&M, Pioneer Natural Resources, Epic Consulting Ser-
vices
Investigating the Sensitivity of Input Data on the Quality of Fracture Net-
work Realizations
Matthew Herrin and Lawrence Teufel, New Mexico Tech
Modeling Coupled Fracture-Matrix Fluid Flow in Geo-Mechanically Simu-
lated Fracture Networks
Zeno Philip, Jim Jennings Jr, Jon Olson, and Jon Holder, U. of Texas and
the Bureau of Economic Geology
Transcending Conventional Log Interpretation – A More Effective Approach
for Spraberry Reservoir
Dicman Alfred, Erwinsyah Putra, and David Schecter, Texas A&M
Characterization and Fluid-Flow Simulation of Naturally-Fractured Tight-
Gas Sandstone Reservoirs
Lawrence Teufel, New Mexico Tech
Integration of 3-D Seismic, Well Test, and Core Data to Simulate Perme-
ability Descriptions
Harun Ates, Asnul Bahar, and Mohan Kelkar, U. of Tulsa
Advantages and Disadvantages of Different Methods for Assessing Natural
Fractures in the Raton Basin of Colorado and New Mexico
Christopher Rautman, Scott Cooper, Bill Arnold, Paul Basinski, Thomas
Mroz, and John Lorenz, Sandia National Labs, El Paso Production, and
NETL
Models for Interporosity Flow in Naturally Fractured Reservoirs
Gherson Penuela, Faruk Civan, Richard Hughes, and Michael Wiggins
U. of Oklahoma
A General Model for Fracture Compliance and Permeability
Raymon Brown, Oklahoma Geological Survey
Frequency-Dependence of Fractured Reservoirs
Evgeni Chesnokov and Raymon Brown, U. of Oklahoma and Oklahoma
Geological Survey

WORKSHOP—continued

Dan Boyd, OGS petroleum geologist, is coordinating this year’s
workshop. Phone him at 405/325-3031; e-mail him at dboyd@ou.edu.
The registration fee is $60 per participant until May 6, after which it
is $70. The registration fee includes all lunches and break snacks, and a
copy of the technical program (to be published later this year).

The Petroleum Technology Transfer Council (PTTC) gratefully
acknowledges that its primary funding comes through the U.S.
Department of Energy’s (DOE) Office of Fossil Energy through
the National Petroleum Technology Laboratory (NPTL),
and Strategic Center for Natural Gas (SCNG) within the
National Energy Technology Lab (NETL).