



Regional Update

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South Midcontinent Region**

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Spring Workshop Focuses on the Cherokee, an Important Target in Oklahoma Exploration

The Oklahoma Geological Survey's annual spring workshop, this year titled Finding and Producing Cherokee Reservoirs in the Southern Midcontinent, meets at the Meridian Convention Center in Oklahoma City on May 14 and 15. Designed as an aid for Oklahoma's oil and gas operators, the focus of the workshop is to identify practical techniques and technology to both find additional fields, and efficiently produce the accumulations that already have been found in this prolific group of related geological formations. This workshop is co-sponsored by the U.S. Department of Energy, along with cooperation from the PTTC.

This year's meeting is the 15th in the annual series of petroleum-based workshops that have been organized by the Oklahoma Geological Survey. Attended by a diverse group of geoscientists and other petroleum professionals, this meeting is an ideal setting in which operators can benefit from the experience of others. The meeting provides an opportunity for smaller companies to see how their activity fits into the larger, regional picture. Because the technical challenges associated with the Cherokee are often the same, successful practices in one area often will succeed elsewhere. The ultimate aim of these workshops is to provide a means by which the process of idea "cross-fertilization" can take place. This interaction is critical to developing new insights into cost-effectively identifying and developing hydrocarbons in this complex set of reservoirs. Such cooperation is especially important in a business environment that makes it increasingly difficult for many operators to maintain long-term profitability.

Sandstones of the Cherokee and its equivalents are among the most prolific petroleum reservoirs in Oklahoma, and continue to rank as one of our most important exploration targets. They produce across the bulk of the state and are responsible for approximately 15% of the gas and more than 50% of the oil found thus far. The Bartlesville Sandstone, a member of the Cherokee Group, accounts for the bulk of the oil initially discovered in the state, and provided much of the impetus towards the actual granting of Statehood in 1907.

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. To facilitate additional interaction between

(see WORKSHOP—page 2)

PUMP Project Takes Off in Oklahoma, Arkansas

The Preferred Upstream Management Practices (PUMP) program is off to a running start in Oklahoma and Arkansas, with a target of identifying and applying preferred and successful practices to factors and problems that constrain oil production in the two states.

The PUMP project is sponsored through PTTC in California and the South Midcontinent with a two-year award from the U.S. Department of Energy.

At a January meeting at the OGS offices in Norman, Charles J. Mankin, South Midcontinent program manager, and members of his staff met with Lance Cole, PTTC; Carl Hampton "Hamp" Bussey, Arkansas; and Cranston Flesher, Oklahoma. Bussey and Flesher, designated mentors for this region, are charged with providing increased one-on-one and small group interaction with industry in their states. They are experienced, well-respected, and well-networked individuals with solid backgrounds in the petroleum industry. This will not be an office job, but will be done in the "oil patch," visiting operators to get an in-depth understanding of problems that keep them from maximizing production and profits.

The PUMP approach was selected by PTTC because of the encouraging results of a similar program conducted by Bob Kiker in Texas. Kiker attended the meeting in Norman and provided valuable insight and advice to the South Midcontinent team.

After problems are identified and resolved, the ensuing results will be widely disseminated and made available to other operators who may have similar problems.

Flesher, a petroleum engineer, has 50 years of petroleum engineering experience, most as an indepen-



Digital photo by Lance Cole

Hamp Bussey, Charlie Mankin, and Cranston Flesher meet in Norman in January to discuss plans for the PUMP project in the South Midcontinent

dent engineer working in Oklahoma. He has a BS in petroleum engineering from OU, and is experienced in drilling, well completions, well workovers, waterflooding, coalbed methane, appraisals and mineral evaluations.

Bussey is the former Deputy Director of the Arkansas Oil and Gas Commission. He is a member of IOGCC and was on the Council of State Regulatory Officials from 1990-2000, as well as the State Review Committee from 1999-2000.

Bussey has a petroleum engi-

neering degree from Louisiana Polytechnic Institute, and worked in Arkansas's producing industry for more than 40 years in engineering management for companies and government roles for the state.

"I think the PUMP project will be extremely important for this region," Mankin said. "The two individuals we have involved as mentors know the business and technical sides of the petroleum industry and will be an invaluable asset to our operators who want to maximize their production."

WORKSHOP—continued

presenters and participants, extra time also will be set aside after morning and afternoon sessions to insure that all issues are fully addressed. An Oklahoma Geological Survey Circular will be published in December 2002 in order to both document the contributions made by presenters and serve as a future reference. This volume will be sent at no charge to all participants.

Dan Boyd, a geologist with the OGS, is coordinating this year's

workshop. A petroleum geologist since 1978, with most of his career spent with Union Texas Petroleum, he has worked throughout the U.S. and overseas.

For more information, contact Dan at 405/325-3031, e-mail him at dtboyd@ou.edu, or check the OGS-PTTC web site at: <http://www.ou.edu/special/ogs-pttc>.

The registration fee is \$60 per participant until May 6, after which it is \$70.

Upcoming Events

February

- 2/7-9 20th Anniversary for Sarkeys Energy Center and College of Geosciences, Norman
- 2/26 Reducing Power Costs in Old Fields, Duncan, *MWC, PTTC
- 2/27 Reducing Power Costs in Old Fields, Oklahoma City, *MWC, PTTC
- 2/28 Reducing Power Costs in Old Fields, Tulsa, *MWC, PTTC

March

- 3/7 Production Equipment Operations, Duncan, *MWC, PTTC
- 3/12 GIS Day at the Capitol, Oklahoma City
- 3/14 Production Equipment Operations, Oklahoma City, *MWC, PTTC
- 3/21 Production Equipment Operations, Tulsa, *MWC, PTTC
- 3/27 Coalbed-Methane Workshop, *OCGS, OGS, PTTC
- 3/28 Production Equipment Operations, Woodward, *MWC, PTTC
- 3/30 Garber Field Trip, Norman, *OGS, PTTC

April

- 4/9 Asphaltenes & Paraffin Problems, Duncan, *MWC, PTTC
- 4/10 Asphaltenes & Paraffin Problems, Oklahoma City, *MWC, PTTC
- 4/11 Asphaltenes & Paraffin Problems, Tulsa, *MWC, PTTC
- 4/16 SPE/DOE Symposium on Improved Oil Recovery, Tulsa, PTTC
- 4/24 Bartlesville Play Workshop, Oklahoma City, *OCGS, OGS, PTTC
- 4/24 Bartlesville Play Workshop, Tulsa, *TGS, OGS, PTTC

May

- 5/2 Legal & Regulatory Issues as Related to Oil & Gas, Duncan, *MWC, PTTC
- 5/9 Legal & Regulatory Issues as Related to Oil & Gas, Oklahoma City, *MWC, PTTC
- 5/14-15 Finding and Producing Cherokee Reservoirs in the Southern Midcontinent, Oklahoma City, *OGS, DOE, PTTC
- 5/23 Legal & Regulatory Issues as Related to Oil & Gas, Tulsa, *MWC, PTTC

June

- 6/3-4 Petroleum and Geological Engineering Symposium, Oklahoma City
- 6/14 Trade Fair, Tulsa, *MWC, PTTC
- 6/19 Red Fork Play Workshop, Oklahoma City, *OCGS, OGS, PTTC
- 6/20 Red Fork Play Workshop, Tulsa, *TGS, OGS, PTTC
- 6/24-25 Practical Reservoir Characterization for the Independent Operator, Norman, *OGS, PTTC

August

- 8/5 Plunger Lift Operations, Duncan, *MWC, PTTC
- 8/6 Plunger Lift Operations, Oklahoma City, *MWC, PTTC
- 8/7 Plunger Lift Operations, Tulsa, *MWC, PTTC
- 8/8 Plunger Lift Operations, Woodward, *MWC, PTTC

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*MWC=Marginal Wells Commission, 405/366-8688; 800/390-0460

*GIS=Geological Information Systems, 405/325-3131

*OCGS=Oklahoma City Geological Society 405/236-8086 or 405/235-3648, ext. 40

*TGS=Contact Richard Piquere, 918/582-2690

Half-Day Coalbed Methane Meeting Set for Cowboy Hall of Fame

The Oklahoma City Geological Society, Oklahoma Geological Survey, and the Petroleum Technology Transfer Council South Midcontinent Region will co-host a half-day workshop on coalbed methane at the National Cowboy Hall of Fame and Western Heritage Museum in Oklahoma City on Wednesday, March 27.

Methane-rich natural gas from coal (coalbed methane) is an unconventional resource. Coal is both the source and reservoir of methane, and has several unique properties that affect how gas is stored and produced.

The workshop will present a brief introduction to coal as a gas source rock and fractured reservoir, provide an overview of Oklahoma coal geology and coalbed-methane activity, highlight best-practice stimulation and completion techniques, and share a cost analysis of drilling for coalbed

methane. The workshop will benefit geologists and engineers interested in learning more about this shallow-gas resource. Reference information for

additional reading is provided in the workshop manual.

Additional Survey publications will be available at the meeting.

1:00	Introduction to Coal as Gas Source Rock and Reservoir	Brian Cardott OGS
1:45	Coal Stratigraphy of the Northeast Oklahoma Shelf Area, with an Overview of Arkoma Basin Coal Geology	LeRoy Hemish OGS
2:15	Coalbed-Methane Activity in Oklahoma, 2001	Brian Cardott OGS
2:45	Break*	
3:15	Modifying Coalbed Methane and Shale Completion Techniques	Roger Marshall CUDD Pumping Services
3:45	Coal Seam Drilling and Producing Economics in Oklahoma	S. Neil Sisson Wildhorse Operating
4:15	Discussion	

Geo Information Systems has prepared a one-day class titled *Mapping Oil and Gas Data with ArcView*. This class takes the user through the primary steps in creating wellspot and lease production maps. A schedule with the host computer lab is being finalized and will be available soon on the PTTC web site.

Geo Information Systems also would like to gauge the interest of our users and the local PTTC community for a class in *Advanced Mapping Techniques with ArcView*. The advanced class primarily would focus on 3D modeling of terrain, boreholes and subsurface horizons.

Anyone interested in such a class can contact Scott March at Scmarch@ou.edu or call 405/325-3131, ext. 229.

ArcView Classes Set

Do you need advanced classes in ArcView?

Let us know!

Please don't forget to fill out the enclosed questionnaire on the PUMP (Preferred Upstream Management Practices) program. We need your input!

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