

Regional Update

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Hartshorne Workshops and Field Trips Examine Prolific Gas Play

A one-day workshop on the sandstone reservoirs and coalbed methane reservoirs of the Hartshorne Formation will examine this prolific gas play in the Arkoma basin of southeastern Oklahoma. The workshop will be presented twice, in Oklahoma City on September 30 and in Muskogee on November 4, and will be followed by a two-day field trip out of McAlester that also is being offered in two sessions, November 10–11 and 12–13.

The workshop and field trip have many objectives relevant to the oil and gas industry. In the workshop, the limits of the Hartshorne play and stratigraphy will be identified as well as specific depositional environments that characterize producing reservoirs. Detailed field studies will identify specific geologic conditions that are representative of the Hartshorne Formation and provide geologic and engineering information that characterize the reservoirs.

Workshops

The two principal presenters for the workshop are Rick Andrews and Brian Cardott, both geologists with the Oklahoma Geological Survey. They will examine the regional distribution of the Hartshorne Formation and provide detailed field studies of various sandstone and coal reservoirs. Production in the region consists largely of gas, with most wells less than 3,000 ft. deep and reserves generally 250 MMCF to several BCF. Cardott will discuss coalbed methane, which recently has been the target of active exploration.

The workshop will feature two guest lecturers discussing relationships and occurrences of the Hartshorne in Arkansas. Prepared core exhibits with interpretations and hand samples of the Hartshorne showing reservoir and facies characteristics will be available for examination during lunch and at break times. The sessions will cover natural gas resources, surface and subsurface geology, coalbed methane resources, structure, stratigraphy, depositional environments, and other aspects of the Hartshorne. This combination of materials and examples should give operators a good idea of what they can expect to find in this productive formation.

Field Trips

The field trips will acquaint participants with a variety of sandstone and coal exposures illustrating floodplain, fluvial-dominated deltaic (FDD),

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Region Enters Fifth Year of PTTC Activity

This autumn, the South Midcontinent Region of the PTTC enters its fifth year of existence. In this period of time, we have provided or participated in three problem-identification workshops, nine play-based Fluvial-Dominated Deltaic (FDD) Reservoir workshops, a focused-technology workshop, FDD field demonstrations, a waterflood workshop (held twice), and four major workshops on Southern Midcontinent geology and petroleum resources. In the coming years, we will continue to identify and produce at least one new play-based workshop per year along with the other sessions we will sponsor.

We work to bring these meetings to you at a very affordable cost, yet at the same time provide you with comfortable surroundings, a good lunch and high-quality printed material to take away with you for future reference.

This PTTC Region's main focus has been the play-based workshops, while other groups such as the Marginal Wells Commission, OIPA, and SPE are offering more technically oriented sessions on lease operations and engineering considerations

for improved recovery and operating costs. We design our programs to complement those of other organizations and allow us to use our particular expertise in petroleum geology to your best advantage.

In addition to these activities, we have maintained and expanded our resource center, which gives operators access to Oklahoma's petroleum data bases and a large array of software that may be examined for potential application in your operations. A staff of petroleum professionals will respond to your needs for information and technical assistance in this area, a tremendous help for those with little computer experience.

Finally, we are developing at the resource center a technical library that contains a broad range of literature, videos, and other reference material on petroleum activities.

Through these programs, we are providing operators with a broad range of opportunities to examine topics that should prove useful to them on a practical level and address some of the identified needs in the region.



Dr. Charles J. Mankin, South Midcontinent Program Manager.

Cores, Logs, and Samples Added to Survey Libraries

The OGS libraries are expanding their holdings at a rapid rate these days! Through donations from industry, thousands of new logs recently have been added to the Log Library, and are available for your use. Some 23 trailer-truck loads of cores and samples also are on their way to the Survey, and will be housed and cataloged in the near future.

For more detailed information on these new holdings, contact Michael Mercer at the Log Library (405/447-3118; 1425 George Ave., Norman OK 73072) or Walter Esry at the Core and Sample Library (405/325-4386; 2725 S. Jenkins, Norman OK 73019).

What Does PTTC Do?

Called the "elevator speech" by those at the PTTC Headquarters in Washington, D. C., the following statement was written in answer to the question: What does PTTC DO?

PTTC strengthens the independent petroleum industry by helping producers make E&P technology decisions. We help identify their problems and opportunities, educate them on solution options, and refer them to qualified sources of solutions. In a nutshell, we build E&P confidence through timely, informed technology decisions.

The "speech" is 45 words, and takes 20 seconds to deliver. Now if only most after-dinner speakers were so concise!

Call for Papers on Silurian, Devonian, Mississippian Geology and Petroleum in the Southern Midcontinent

March 23–24, 1999, in Norman, Oklahoma

A call for papers has been issued for the twelfth annual OGS Southern Midcontinent Workshop that will be held March 23–24 next spring. The workshop is designed to transfer information that will aid in the search for, and production of, our oil and gas resources.

The meeting's topic of Silurian, Devonian, and Mississippian rocks in the region includes sandstones, limestones, and dolomites that are major petroleum reservoirs, which already have yielded large volumes of oil and gas and have great potential for yielding additional hydrocarbons through the use of improved

exploration and development techniques. The workshop will consist of 20 papers presented orally and 15 informal poster presentations, and will be attended by 200–300 participants.

The deadline for submitting a paper is October 1. For further information, or to submit a title, contact Kenneth S. Johnson at the OGS at the address on the front cover, or submit your title on the Survey's web site at:

< <http://www.ou.edu/special/ogs-pttc> >

Upcoming Events

September

- 9/10 *FDD Morrow Play Workshop, Oklahoma City, Oklahoma City Geological Society (405/235-3648, ext. 40 or 405/236-8086), and OGS*
- 9/22 *Arkansas Oil and Gas Commission, Public Hearing: Hot Springs, AR*
- 9/24-25 *Marginal Wells Commission Retreat, Lake Murray Resort, Ardmore, *MWC*
- 9/30 *Hartshorne Workshop, Francis Tuttle VoTech, Oklahoma City, *OGS*

October

- 10/1 *Deadline for papers: Silurian, Devonian, and Mississippian Geology and Petroleum in the Southern Midcontinent, Norman, Oklahoma, March 23–24, 1999, *OGS*
- 10/8 *Advanced Plunger Lift Workshop, Duncan, *MWC*
- 10/15 *Petroleum Industry Trade Fair, Norman, *MWC*
- 10/22 *Advanced Plunger Lift Workshop, Francis Tuttle VoTech, Oklahoma City, *MWC*
- 10/27 *Arkansas Oil and Gas Commission, Public Hearing: Fort Smith, AR*
- 10/29 *Marginal Wells Commission Meeting, Cowboy Hall of Fame, Oklahoma City, *MWC*

November

- 11/4 *Hartshorne Workshop, Indian Capitol Area VoTech, Muskogee, *OGS*
- 11/10-11 *Hartshorne Field Trip, McAlester, *OGS*
- 11/11 *Operator's Roundtable, Weatherford, *MWC*
- 11/12 *Advanced Plunger Lift Workshop, Roman Nose State Park, Watonga, *MWC*
- 11/12-13 *Hartshorne Field Trip, McAlester, *OGS*

December

- 12/1 *Arkansas Oil and Gas Commission, Public Hearing, Hot Springs, AR*

*OGS=Oklahoma Geological Survey, 405/325-3031 or 800/330-3996

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

Hartshorne Play—continued

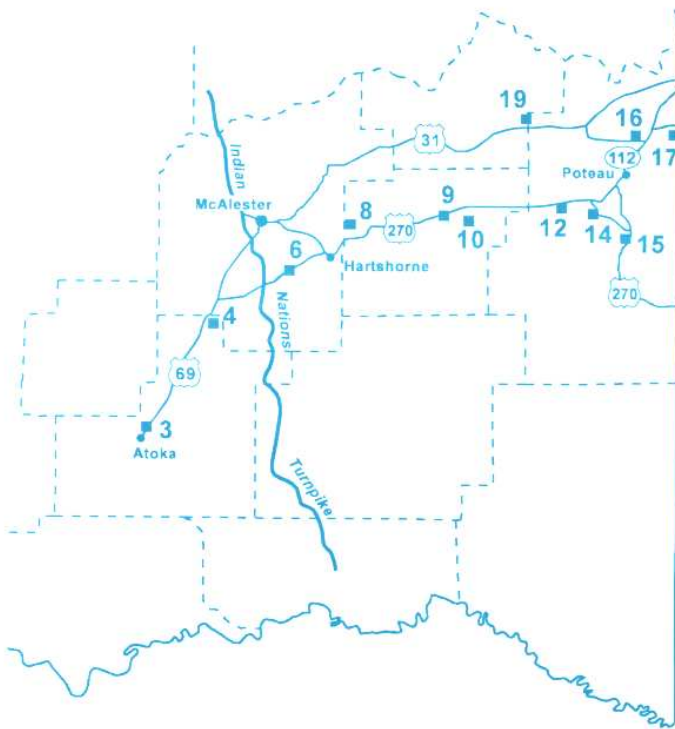
and marine depositional facies. Neil H. Suneson, who has mapped extensively in the Arkoma basin for the OGS, will lead the trip along with Andrews and Cardott. Because of his extensive "on foot" knowledge of the region, Suneson will be able to offer valuable insights into the geology and discuss in detail some of the most interesting and economically important facets of this subject.

One of the trip's most exciting aspects is being able to relate surface exposures to subsurface geology using log comparisons.

"You don't often have the chance on a field trip to look at the log, then stand in front of those rocks and see what they REALLY look like at the surface. We think this will be extremely beneficial, especially in this area," Suneson said.

Registration Information

The September 30 workshop will meet at Francis Tuttle VoTech, 12777 North Rockwell, in Oklahoma



Hartshorne field-trip route through southeastern Oklahoma.

City, from 9:00 a.m. to 4:00 p.m. **The registration cost is \$30 and includes coffee breaks, lunch, and the accompanying workshop publication.** Confirmation letters will be mailed out after registration is received by the OGS. Registration will be taken on a "first come, first served" basis—so be among the early birds to assure yourself a place!

The November 4 workshop will be held at the Indian Capitol Area VoTech, 2403 North 41st East, in Muskogee, and also meets from 9:00 a.m. to 4:00 p.m. The registration cost will be the same as for the Oklahoma City session, and will include the same items.

Registration for the field trips on November 10–11 and 12–13 is estimated to be \$75 (subject to revision depending upon transportation costs). Included in the cost is lunch both days, bus transportation for the field trip, morning and afternoon snacks, and a guidebook. Participants will be responsible for their own motel reservations and for breakfast and dinner.

Registration again is on a first-come, first-served basis, and because of logistics, the maximum number of participants will be limited to about 40 on each trip. Current interest in this field trip is high because it is applicable to many of the Cherokee reservoirs in Oklahoma, and both field trips are expected to fill. After the OGS has received your registration, you will get a confirmation letter in the mail.

A block of rooms has been reserved for this field trip at the Days Inn Conference Hotel in McAlester. To make reservations, contact the Days Inn directly at 918/426-5050 and tell them you will be with the Oklahoma Geological Survey field trip. If rooms there are no longer available, try also: Comfort Inn, McAlester, 918/426-0115; or the Ramada Inn, McAlester, 918/423-7766.

For further information about the workshops or field trips, contact Michelle Summers at the Oklahoma Geological Survey, 100 E. Boyd, Rm. N-131, Norman OK 73019; 405/325-3031; or 800/330-3996; fax 405/325-7069. Information and registration also are available at the OGS web site:

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Don't miss this very special opportunity to learn more about the Hartshorne Formation and the gas and coalbed methane opportunities in this play.