



**Joint Session with SPE
Penn Brewery – Pittsburgh
13 November 2007**

**Pinedale Field:
A Giant Gas Resource,
Green River Basin, Wyoming**

presented by

Robert W. McDermott
South Pass Resources, Inc.
(Consultant for Ultra Resources, Inc.)

Abstract

The Pinedale Field in the Greater Green River Basin of southwest Wyoming is the second largest gas field in the United States and along with Jonah Field, a significant new natural gas resource in America. Estimates of recoverable gas from the Pinedale Field exceed 27 TCF. Ultra Petroleum, Inc. has the largest operating position in the Field. Primary production is from over-pressured, tight-gas sandstones of the Upper Cretaceous Lance Formation and upper part of the undifferentiated Mesaverde (“Lance Pool”), coincident with the Pinedale Anticline. Current development along the Pinedale Anticline spans an area over 3 miles in width and 30 miles in length. The gross hydrocarbon-bearing column, which exceeds 5,000 feet in total thickness, consists mainly of fluvial and flood plain facies rocks deposited in a broad alluvial valley. In order to better understand the Lance Pool reservoir characteristics and to optimize the development of the Pinedale Field, Ultra Petroleum Corp embarked on a coring program in which 10 wells were cored and a total of 852 feet of Lance Pool rock was recovered. Detailed analysis of the core integrated with Ultra's geological, petrophysical and geophysical models has led to a unique understanding of the Lance Pool. The alluvial sandstones of the Lance Pool were deposited in a rapidly subsiding basin by modest-sized rivers reflecting

constant channel-belt migration. The resulting reservoirs are laterally- and vertically-discontinuous, multi-story sandstones. Effective reservoir characteristics include lower porosities and permeabilities, a greater range of effective water saturations and a thicker net pay section than previously believed. Multiple fracs are required in order to effectively produce the Lance Pool Reservoir.



Natural gas drilling rig on the Pinedale Anticline
(courtesy BLM)

For reservations to this informative and entertaining evening, please complete the attached reservation form.

Please note the change in venue. The November meeting will be held at Penn Brewery in Pittsburgh. Please see directions on the reservation form.



WHAT IS THE PAPG?

PAPG is a non-profit organization founded in 1984 to provide a forum for Petroleum Geologists in the Pittsburgh Area to meet socially and discuss technical topics relative to the exploration and development of reserves in the Northern and Central Appalachian Basin. PAPG is an affiliated association with AAPG (American Association of Petroleum Geologists) and has representation in the House of Delegates. Educational opportunities are provided via field trips, seminars and AAPG Sectional meetings, sponsored solely by PAPG or in conjunction with the PTTC (Petroleum Technology Transfer Council), PGS (Pittsburgh Geologic Society) and SPE (Society of Petroleum Engineers).

Although PAPG is predominately a geologic organization, numerous industry professionals including geophysicists, engineers, lawyers and landmen are among PAPG's members and find the interaction at meetings and educational opportunities beneficial to their professions. PAPG also encourages student membership and participation.

Meetings are typically held monthly from September through May in locations within 50 miles of downtown Pittsburgh. From time to time, meetings are held in conjunction with SPE and PGS.

NEWS AND EVENTS

AAPG Imperial Barrel Award Contest

The Eastern Section of the AAPG is participating in the Imperial Barrel Award contest. A team of 5 students from an Eastern Section university will be selected to represent the ES next spring at the AAPG annual meeting in San Antonio. The Eastern Section team will be competing against teams from other sections and regions across the world. Travel expenses to San Antonio for the teams competing will be covered by AAPG. The first prize is \$20,000 for the department of the winning team, with lesser prizes for all teams making it to the National competition.

Information will be available on the AAPG website: <http://www.aapg.org/iba/>

Anyone who is interested or has questions may contact Lee Avary (avary@geosrv.wvnet.edu). There will be a competition within the Eastern Section to select the representative for the ES.

This is an exciting, new opportunity for students to analyze industry data and make a presentation based on the team's recommendations.

PAPG Website:

The PAPG Website is now up and running. Visit the site at <http://www.PAPGrocks.org>.

Mark your calendar now for these upcoming events:

December 13th, 2007 -

SPE December Meeting

Sameh Macary

December 2007 -

SPE-PAPG Annual Christmas Party

2008 AAPG Eastern Regional Meeting

- Scheduled for Pittsburgh - Planning under way

Have information you want to share with the organization?

Please contact the secretary to add the information to the next newsletter.

SPONSORS

PAPG wishes to thank the companies who have contributed to the PAPG 2007-08 season

Billman Geologic Consultants Inc.

P.O. Box 567
Mars PA 16046
724-625-3461



NATURAL ENERGY DEVELOPMENT CORP.
37 McMURRAY RD. SUITE 3100 PITTSBURGH PA, 15241

DC Energy Consultants

18 Long Street
Paris PA 15201
724.729.3030

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Pittsburgh, PA 15238

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Wind CityTM
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Target Energy, Inc.

P.O. Box 1135
Indiana Pa 15701

ABARTA
OIL & GAS COMPANY
1000 GAMMA DRIVE, STE 400
PITTSBURGH, PA 15238-2926
(412) 963-6443



AMMONITE RESOURCES
181 MARIOMI ROAD, NEW CANAAN, CT 06840

Sponsor Information

If you or your company would like to sponsor the PAPG and help support the continuation of our Meetings, Field Trips, and other events, we ask that you send a donation to the PAPG. Any contribution of \$100.00 or more by any group or individual will be recognized on our website, in the monthly newsletter, and at scheduled monthly meetings.

We ask that you show your support for the PAPG by a contribution and your continuing attendance at the monthly meetings.

We appreciate your continued support.

Contributions may be sent to:

PAPG
PO BOX 16352
GREENTREE PA 15242-0352

NOTICE OF NOVEMBER 2007 MEETING PITTSBURGH ASSOCIATION OF PETROLEUM GEOLOGISTS

DATE: Tuesday 13, November 2007

PLACE: Penn Brewery - Pittsburgh
800 Vinial Street
Pittsburgh, PA 15212
(412) 237-9400
www.pennbrew.com



TIME: 5:00 PM – Social Hour (w/ Cash Bar)
***** Tour of Brewery *** Must be present at 5pm.**
6:00 PM – Dinner
7:00 PM – Speaker

TOPIC: “Pinedale Field: A Giant Gas Resource, Green River Basin, Wyoming, USA”

SPEAKER: Robert McDermott

COST: **\$30.00**
\$10.00 students
(Checks payable to PAPG)

DINNER: *Buffet - Includes:*
Tossed Green Salad
Sauerkraut
Hot German Potato Salad
Schweinebraten
Black Forest Chicken Breast
Potato Pancakes and German Rye Bread

RESERVATIONS: Call, email, fax, or mail this reservation form to:

Barbara A. Purks
412-787-5403 (phone)
412-787-2906 (fax)
bpurks@pittsburgh.oilfield.slb.com

NAME(S) _____

COMPANY

DIRECTIONS TO PENN BREWERY

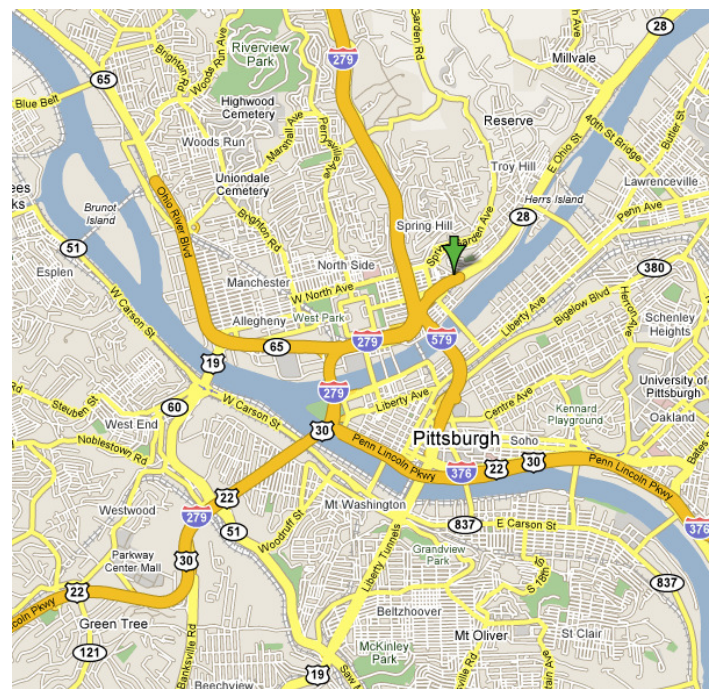
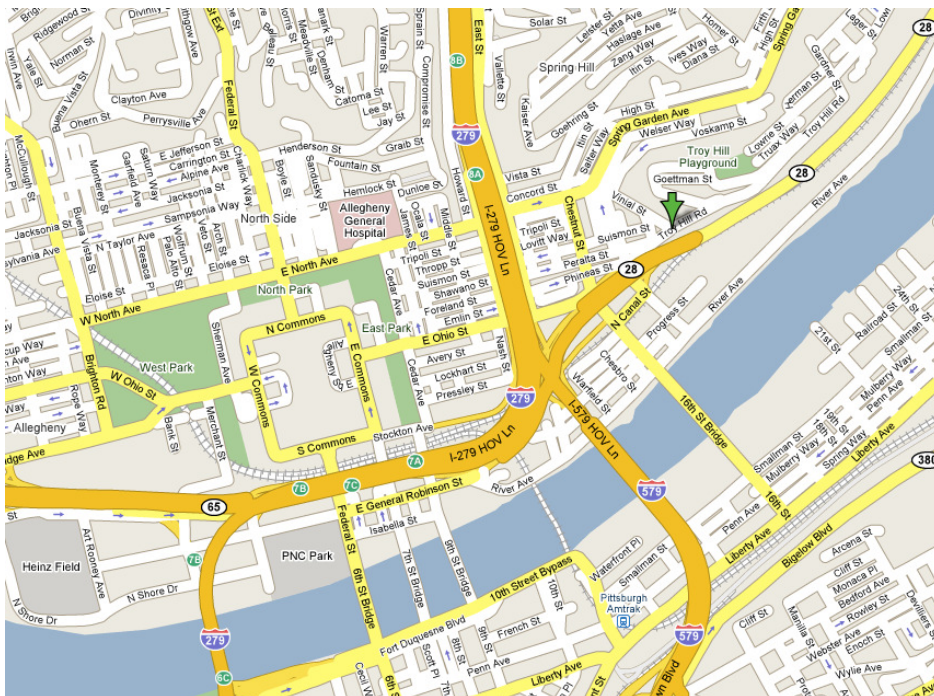
FROM DOWNTOWN Pittsburgh : Penn or Liberty Ave. to Strip District, left on TO 16th St. and cross the 16th St. Bridge. At the third stop light turn right on to Troy Hill Rd. We are 200 yds. on the left.

FROM THE NORTH: I-79 to I-279 South to exit 8B (East St.). Straight to the third light, then turn left on to East Ohio St. At the second light turn left on to Chestnut St., then immediate right on to Troy Hill Rd.

FROM THE EAST: PA Turnpike to exit 6 (Pittsburgh), follow I-376 West (the Parkway) to the center of Pittsburgh (the Point) then follow I-279 North. Take exit 7C (Chestnut St.) onto Route 28 for about 100 yds. then exit to the right for Chestnut Street. At the end of the exit ramp, turn left on to Chestnut St., straight ahead to second stop light and turn right on to Troy Hill Rd.

FROM THE WEST: I-279 North (The Parkway) through the Ft. Pitt Tunnels and Ft. Pitt Bridge following I-279 North. (Stay in the left lane on the Ft. Pitt Bridge and in the right lane on the second bridge, the Ft. Duquesne Bridge.) As soon as you pass PNC Park take exit 7C (Chestnut St.) onto Route 28 for about 100 yards, then exit to the right for Chestnut Street. At the end of the exit ramp, turn left on to Chestnut. At the second light, turn right on to Troy Hill Road.

THERE IS PLENTY OF FREE PARKING IN THE DOUBLE DECK LOT BEHIND THE BUILDINGS OR THE GRAVEL LOT ACROSS THE STREET.



CONTACT THE PAPG

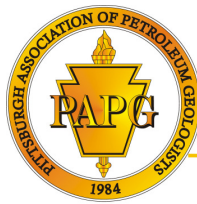
PAPG Officers:

- President:** **Greg Wrightstone** -- Texas Keystone, Inc..
Phone: 412-434-5616
Email: gwrightstone@texaskeystone.com
- Vice President:** **Jim Pancake** --Equitable Production Co.
Phone: 412-395-3912
Email: jpancake@eqt.com
- Secretary:** **Dave Boyer** -- Texas Keystone, Inc.
Phone: 412-434-5616
Email: dboyer@texaskeystone.com
- Treasurer:** **Eric Ober** -- Texas Keystone, Inc.
Phone: 412-388-0917
Email: eober@texaskeystone.com
- AAPG Delegate:** **Doug Patchen** – Petroleum Technology Transfer Council
Phone: 304-293-2867 ext 5443
Email: doug.patchen@mail.wvu.edu

PAPG 2007-2008 DUES

PAPG dues for the 2007-2008 season are now DUE!

*The membership form is attached to this newsletter. Please fill the form out **completely** so that we can ensure that we have your latest contact information. We are planning to publish a membership directory this year and your updated information is crucial.*



P·A·P·G

Pittsburgh Association of
Petroleum Geologists

An AAPG Affiliated Society

www.papgrocks.org

APPLICATION FOR MEMBERSHIP AND MEMBERSHIP RENEWAL

PLEASE INDICATE YOUR MEMBERSHIP STATUS BY CHECKING THE APPROPRIATE BOX:

PROFESSIONAL - RENEWAL

STUDENT - RENEWAL

PROFESSIONAL – NEW MEMBERSHIP

STUDENT - NEW MEMBERSHIP

The **PITTSBURGH ASSOCIATION OF PETROLEUM GEOLOGISTS** membership year runs from JUNE 1 through MAY 31. Monthly meetings are usually held the second Thursday of the month from September through May.

Professional Dues are \$25.00 per year

Student Dues are \$10.00 per year

NEW APPLICATION: If you have never been a member of PAPG, please fill out the remainder of the form, obtain the signatures of two members to sponsor you, and mail check, payable to PAPG, to the address below.

RENEWAL: Please fill out the mailing address/directory information below if your contact information has changed and submit dues, payable to PAPG, to the address below.

Mail completed form and dues payment (checks only - Payable to PAPG) to:

Dave Boyer
Texas Keystone, Inc.
560 Epsilon Drive
Pittsburgh, PA 15238

MAILING ADDRESS / DIRECTORY INFORMATION – PLEASE COMPLETE ALL INFORMATION

NAME _____ DATE _____

COMPANY / UNIVERSITY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

JOB TITLE: _____

EMAIL: _____ **Please fill this in – help us save those mailing costs!**

PHONE: () _____ - _____

FAX: () _____ - _____

WOULD YOU BE INTERESTED IN PAPG PARTICIPATION?: Officer Speaker

**WOULD YOU LIKE YOUR CONTACT INFORMATION PLACED
IN THE MEMBERSHIP DIRECTORY (available to members only?)** Yes No

TWO SPONSORS REQUIRED for NEW MEMBERS

Name _____ Date _____

Name _____ Date _____