

NOGS LOG



April 2009

Volume 49, Number 10

Upcoming Events and Activities

April 6 - NOGS Luncheon

*** At the Holiday Inn Downtown Superdome ***

Free validated parking in hotel garage

Guest speaker Bernie Regel, Chevron, will present "4D (Time Lapse) Seismic: Chevron Gulf of Mexico Examples For a Value-Added Reservoir Management Tool."

(See page 7 for Abstract and Biography)

HOLIDAY INN DOWNTOWN SUPERDOME ADMISSION:

Check with concierge or
front desk for location

Lunch served at 11:30am

with reservation \$30.00

without reservation \$35.00

Student Member with reservation Free

April 17 - NOGS/SGS Summer Social

7:00PM at the Zephyr's Ballpark. See announcement on page 15.

April 27 - NOGS 2009 Annual Golf Outing

Money Hill Golf & Country Club in Abita Springs. See announcement on page 19.

April 29 - Petroleum Geology for Non Geologists

Shell Auditorium, Shell Building in New Orleans.. See announcement on page 11.

May 4 - NOGS Luncheon

Guest speaker Mark G. Rowan, Rowan Consulting, Inc., Boulder, CO, will present "Central Louisiana Deepwater: Structural Provinces and Depositional Patterns."

May 14 - NOGS Technical Seminar & Core Display

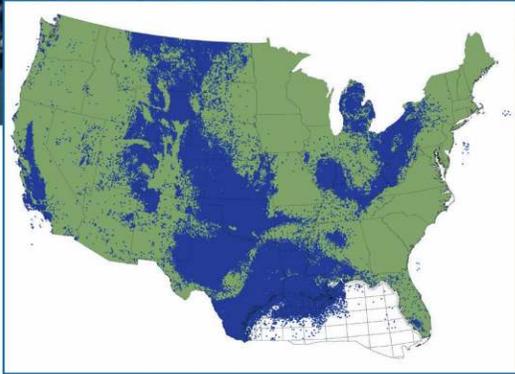
Shell Auditorium, Shell Building in New Orleans. See announcement on page 8.

May 14-16 - Petroleum History Institute 2009 Symposium

Caboose Motel in Titusville, PA. See announcement on page 18.

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 Sent to press on March 30, 2009.



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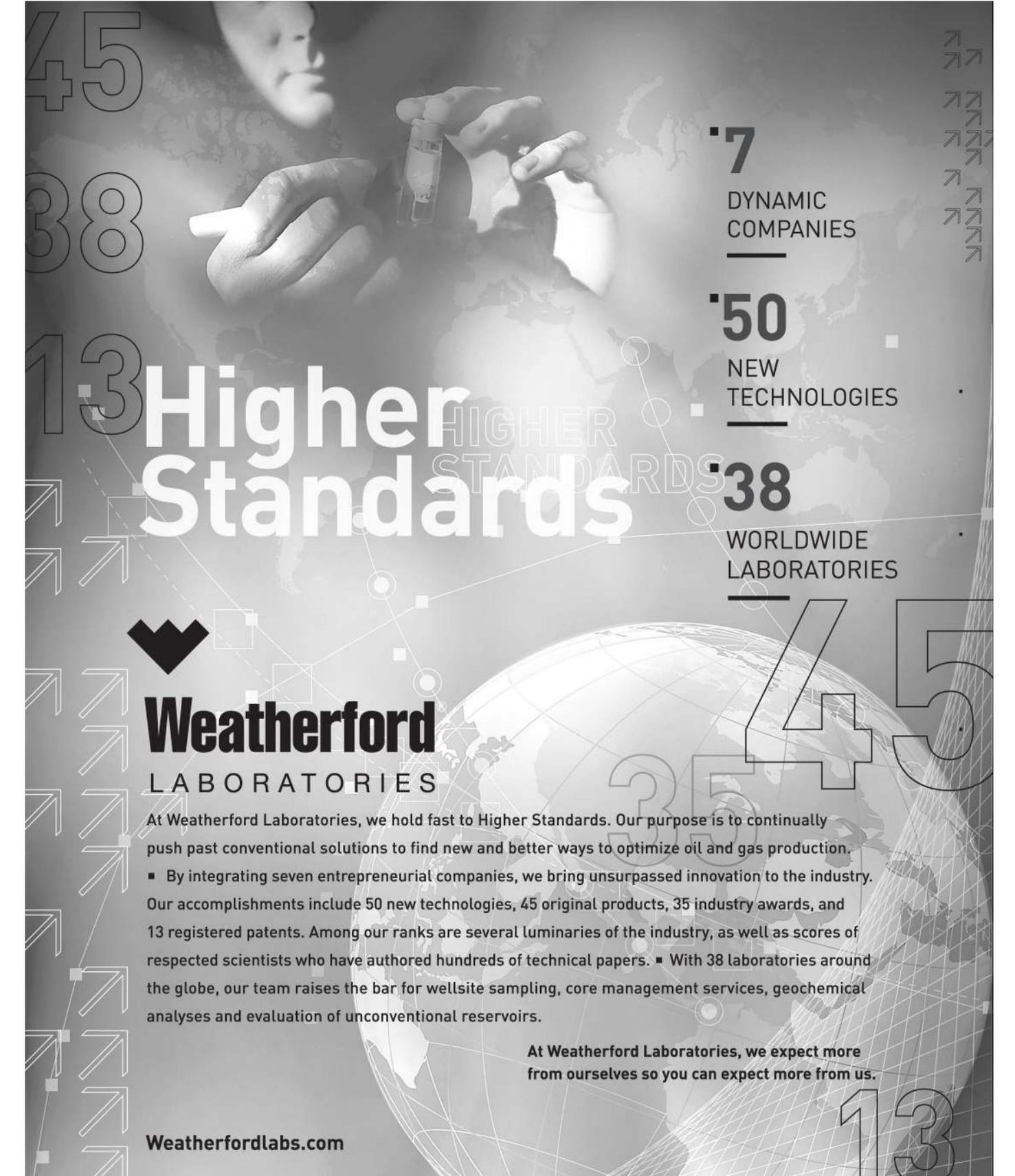
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from the President

March 4th was an interesting time spent at the Region Nine Science Fair at their new location in the Human Performance Center on the UNO campus, an ideal venue for the fair. Judges for NOGS special awards included Awards Chairman Mike Fein, Bill Whiting, Art Johnson, Dave Reiter, and Jim McCarty. A big improvement was apparent this year in the quantity and quality of Earth science projects in both the junior and senior levels. The NOGS judges also review environmental and energy-related projects, as well. We have a returning winner for the NOGS 1st place Senior division, Jordan Badeaux (Pegmatite's) a senior at John Curtis Christian School. A good portion of the six NOGS awards went to students from John Curtis Christian School. A few dedicated teachers make a big difference. The 1st place winners in the Senior and Junior divisions will be invited, along with their teacher, to a future NOGS luncheon. I find it interesting to step outside of our normal provenance to learn what our future, teachers, engineers, scientists, and doctors are thinking. I was pleased to be informed that playing solitaire on my computer is good for my blood pressure. Thanks to Mike Fein and another NOGS member, Carol Avery, for their outstanding effort in making the fair a huge success for many years.

I am happy to report that that over 21 NOGS members have signed-up to be VOLUNTEERS for AAPG 2010, with many more prospects to contact. This does not include the excellent efforts of Beverly Kastler and the NOGS Auxiliary (NOGA). NOGA is well organized and have set up their sub-committees for the social and tour events and their volunteer list is also growing. Volunteers will be needed for the information booths, field trips, short courses, technical sessions, and much more. Student volunteers and those with less than one-year employment may earn credit for a minimal payment (\$25). Contact Tom Hudson, Bill Whiting, Art Johnson, Nanyce Dawers, Mike Ledet, or Fran Wiseman to help out. The AAPG Leadership will be conducting a Town Hall Forum on April 20th and all NOGS and AAPG members are invited. The location and program is to be announced by individual invitation from the AAPG. Lets have a good turnout and give AAPG President Scott Tinker a New Orleans farewell.

Levee Board Commissioner and NOGS member, the Honorable Mike Merritt proposed and the NOGS Board approved the creation of an ad hoc committee to serve in an advisory capacity for the annual Geologic Facts of Life for Flood Protection symposia. Tentative members are Mike Merritt, Ed Picou, Dr. Steve Nelson (Tulane University), Dr. Mike Miner (UNO), John Lopez, Art Johnson and ex officio NOGS Board members. We are also looking for NOGS/SGS members with strong geophysical backgrounds to serve on this committee. NOGS has also been offered an opportunity to be an associate member of the ALBL (Association of Levee Boards of Louisiana); however due to concerns about our non-profit tax status we have tabled that motion for now.

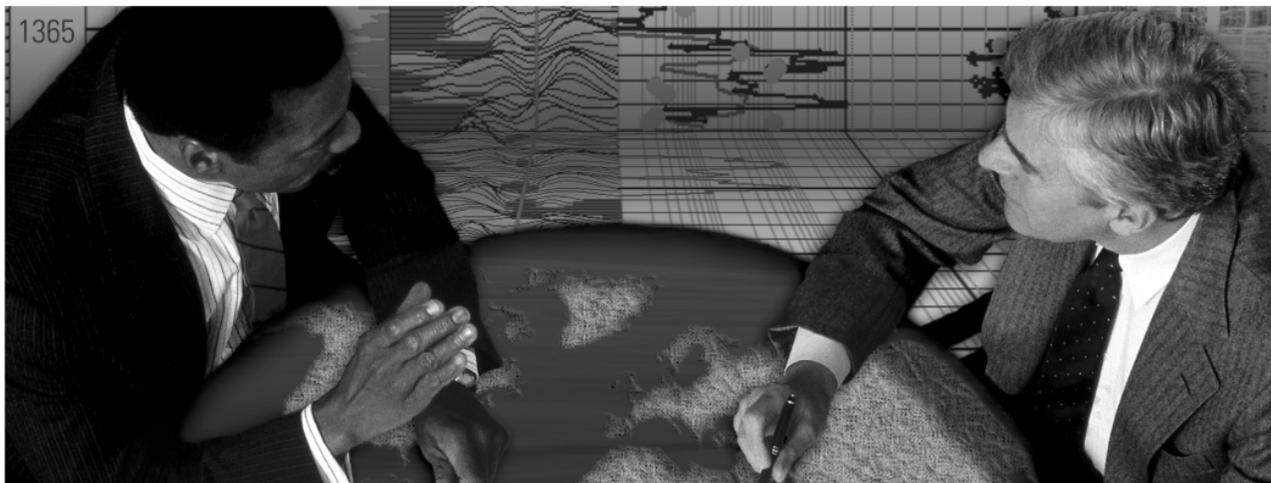
I spoke too soon about the opening of Chevron's North Park facility to north shore NOGS members for our monthly meeting broadcast. New guidelines have been received and there will be no catered lunches at the North Park location. Our Chevron NOGS members have accordingly withdrawn their invitation. NOGS will continue to webcast our monthly meetings to the Chevron facility and NOGS members and guests.

On May 14th Dr. Royhan Gani's (new stratigraphy professor at UNO) seminar and core display will be held at the Shell Annex. See LOG cover for more details. Let's give Royhan a good NOGS welcome. (Cost \$50; Students \$25, some student sponsorships available via the NOGS office.)

Please get your submittals into Tom Bergeon, Tom.bergeon@centuryx.com, for Vol. IV of Southeast Louisiana Oil and Gas Fields. I note with interest that the NOGS office recently received two royalty checks totaling over \$2,000 from AAPG Data Pages and the Texas Bureau of Economic Geology (BEG). These are from NOGS publications that are more than a decade old. This is a vehicle that keeps on paying dividends.

Bill

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April 6 NOGS Luncheon Presentation

*** at the Holiday Inn Downtown Superdome ***

4D (Time Lapse) Seismic: Chevron Gulf of Mexico Examples For a Value-Added Reservoir Management Tool

presented by

Bernie Regel*

Chevron

ABSTRACT

Reservoir Management is the process of designing and implementing a plan to maximize the value of hydrocarbons in a reservoir. Three dimensional (3d) seismic is one of the most important, cost effective, and accepted tools in the asset team's toolkit for acquiring knowledge to incorporate into a reservoir management plan. Four dimensional (4D) seismic or time lapse seismic, is the repeat acquisition of an earlier 3D after sufficient production to cause changes in the seismic response. The additional knowledge derived from the interpretation of these changes can lead to modification of the reservoir management plan. Every asset team that uses seismic data should ask themselves "Can 4D improve our reservoir management plan?"

Chevron's Gulf of Mexico Business Unit has been using 4D in some capacity since 1995 and acquiring dedicated 4D since 2002. Dedicated 4D has been acquired at Genesis (2002), Petronius (2005), South Timbalier 52 (2005), and Arnold/Lobster (2006) fields.

These fields' reservoir management plans have benefited from 4D through improved waterflood surveillance, a better understanding of reservoir

continuity, identifying bypassed or unproduced reserves, and explanation of early water breakthroughs. Additional benefits include improved re-processing of legacy (baseline) 3D, better estimates of original in-place hydrocarbon volumes, a modern state of the art monitor (repeat) 3D, and input for geomechanical models used for well planning.

Determining the true value of data is always a difficult challenge. In mature fields it can take many years after the 4D is delivered for new wells to be drilled and produced to the point that the value of the data becomes quantified. Intangible value includes validation of the pre-4D reservoir management plan and a new post-4D reservoir plan including an updated reservoir simulation and earth model. Wells drilled after the 4D was available benefit from better placement, improved risk assessment, and narrower ranges of outcomes. This results in more efficient use of drilling capital.

*Co-Authors: Loren Bailey, Ellen Clark, Brad Davis, Ryan Guillory, Tom Hudson, Al Melillo, David Moore, Mike Murat, Chok Noibanchong, Melanie Perry, Paul Pizzo, Rusty Reeves, Ken Reynolds, Mark Sullivan, and Cathy Thibaul

BIOGRAPHY

Bernie Regel is a Staff Geophysicist with Chevron, presently working in the Deep Water Asset Team in the Gulf of Mexico Business Unit. He has a B.S. in Geology and an M.S. in Geophysics, both from Bowling Green State University. He started working

for Gulf Oil in 1979 and joined Chevron at the merger. He has worked in exploration, appraisal, and production throughout his 29 years in the industry, mostly in the Gulf of Mexico.

THE LUNCHEON RESERVATION DEADLINE IS APRIL 1 - CONTACT THE NOGS OFFICE

“And Looking Ahead...”

The next NOGS Luncheon will be May 4. Guest speaker Mark G. Rowan, Rowan Consulting, Inc., Boulder, CO, will present “Central Louisiana Deepwater: Structural Provinces and Depositional Patterns.” Contact the NOGS office to make your reservation.

Technical Seminar & Core Display

Deltaic Reservoir Analog: Integration of Outcrop, Core, Ground Penetrating Radar, and Fluid-flow Modeling in Cretaceous Strata, Wyoming

May 14, 2009 9:00 AM–3:00 PM
Shell Auditorium, One Shell Square 701 Poydras, New Orleans

Presented by: Dr. M. Royhan Gani, Department of Earth and Environmental Sciences,
University of New Orleans

Cost per participant: \$50 for NOGS members and non-members, \$25 for students
(some sponsorships available through NOGS).

To reserve a spot or for any questions contact the NOGS office at info@nogs.org or
(504) 561-8980

Seminar Description

Despite the present global emphasis on deep-water exploration and reservoir characterization, much of current and projected global production remains in siliciclastic shallow- and marginal-marine reservoirs. Because of the dynamic interaction of fluvial and basinal (e.g. tides, waves, storms) processes, deltaic deposits are inheritably complex. Various outcrops and subsurface data were integrated to study a Cretaceous delta at the top of the upper Turonian Wall Creek Member exposed along the western flank of the Powder River Basin, Wyoming. Investigation was performed from pore-scale to parasequence-scale to document facies and architectural complexity, along with reservoir properties. Experimentally designed flow-simulations were used to examine effects of facies variability and bedding geometry on breakthrough time, sweep efficiency and upscaled permeability.

Regional sandstone isolith, facies, and paleocurrent maps help to reconstruct the paleogeography and show how the various architectural elements varied across the delta front. The channels, bars, frontal splays, and tidally modulated elements are found only near the distributary mouth, whereas the storm sheets occur extensively away from the distributary mouth. The external shape of the studied delta might be seen as controlled primarily by waves, but the internal facies architecture reveals a far more complex interaction of river, waves, storms, and tidal processes. This challenges the tripartite classification of deltas into river-dominated, wave-dominated, and tide-dominated end member types.

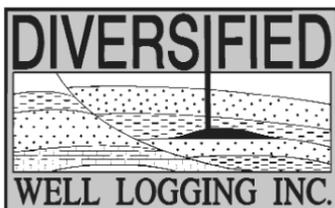
Detailed logging of ichnological variations in several deltaic parasequences are correlated with inferred short- and long-term changes in depositional processes, reflecting various proportions of river, flood, wave, storm, and tide influences that can translate into variable reservoir properties. For this, trend analysis of BI (bioturbation index) log is particularly useful.

The purpose of this seminar is to showcase the internal facies and architectural complexity of deltaic reservoirs. Additionally, display of cores will provide opportunity for the participants to get hands-on experience on how to identify facies, trace fossils, and sequence stratigraphic surfaces in shallow-marine strata.



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The New Orleans Geological Society is presenting a one day course on “Petroleum Geology for Non Geologists,” 8:30 AM to 3:30 PM on Wednesday April 29, 2009 in the Shell Auditorium, Shell Building, 701 Poydras Street, New Orleans. The course will consist of a brief introduction to Basic Geology, followed by a review of how oil and gas are formed, how they are concentrated into reservoirs, the geological and geophysical methods used in exploration, and an overview of drilling and completion practices.

This course should be of significant benefit and interest to anyone who in one way or another works with geologists and geological data, such as land personnel, secretaries, draftsmen and computer programmers and processors.

Instructors will be Duncan Goldthwaite - Consulting Geologist, Robert Branson - Consulting Geologist, Bruce Robertson - Consulting Geologist, and Devi Subramaniam- Drilling Engineer, Chevron.

Cost will be \$35.00 per participant. Course notes and mid-morning refreshments will be provided.

Persons interested can register by sending a check for \$35.00, made out to the New Orleans Geological Society, to:

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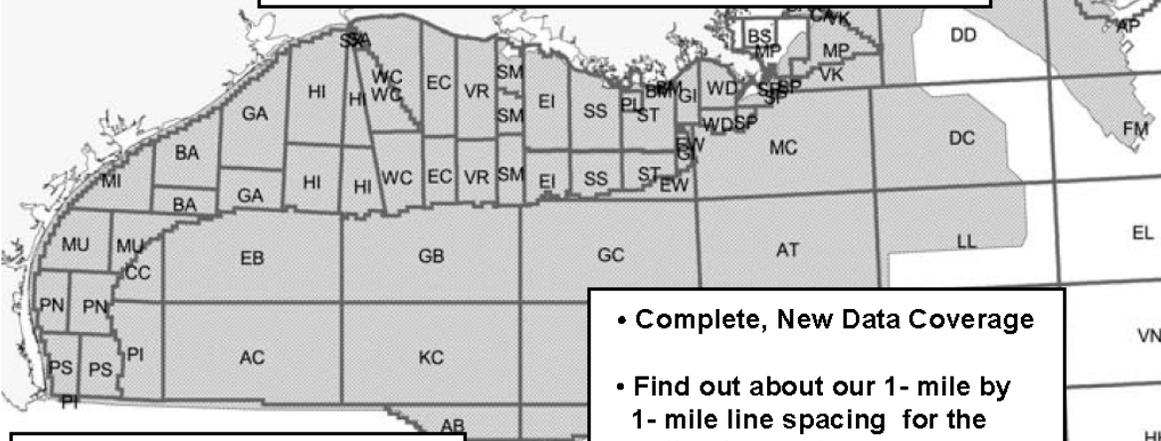
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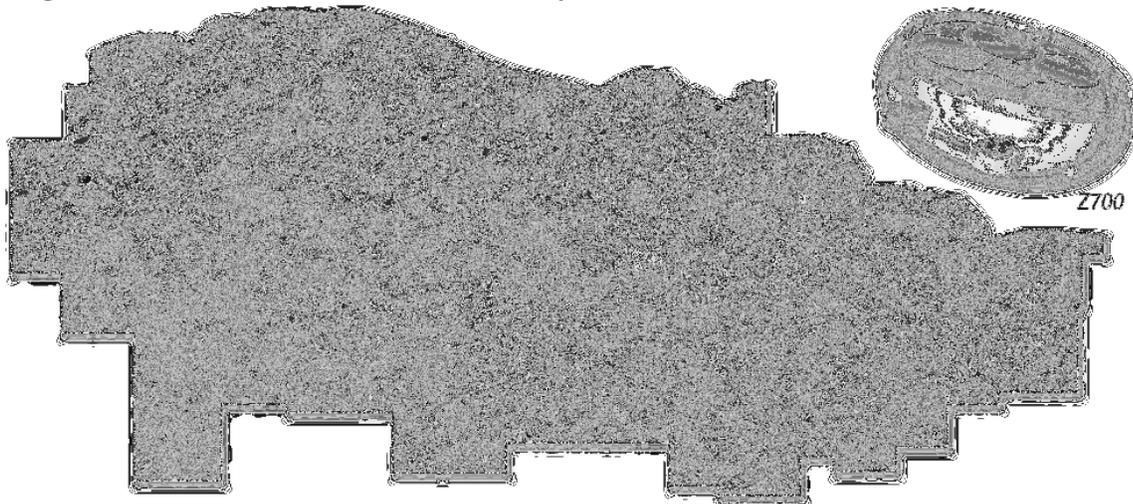
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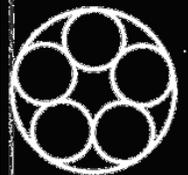
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-VS-



April 17'th New Orleans Zephyrs vs. the Nashville Sounds

Game starts at 7:00pm

Please pick up your tickets from the Will-Call window before the game
Opening night at the Zephyrs stadium
+ Friday night Fireworks

We will have a block of seats down the first base line.

Come out and bring the family

***Cost:**

\$ 5 – Member of either society and close relatives

\$ 25 – Non member Adults

(You get membership in your choice of societies, SGS or NOGS)

* Parking is usually an additional \$3 per car

Food: Your \$ 5.00 entry fee will get you into the game + \$5 in ballpark bucks to get something to eat during the game.

Please RSVP by April 10'th through Annette at the NOGS office (annette@nogs.org) or phone 504-561-8980. Please let us know how many will be in your party.

Thanks and we will see you at the game!

NOGS 2009-2010 CANDIDATES

For **PRESIDENT ELECT**

REITER



David E. Reiter graduated from the University of New Mexico in 1980 with an M.S. in Geology. He began his career with Shell Oil Co. in New Orleans as onshore exploration geologist. In 1984, he joined ODECO Oil & Gas (now Murphy E&P Co.) as an exploration geologist working the central GOM shelf area. He later moved into development geology with responsibility for several GOM shelf and deepwater fields. In 2005, Mr. Reiter joined Dominion Exploration and Production Company as Senior Staff Geologist in their GOM Shelf Exploration Group. After a brief stint with Energy Partners, Ltd, as Deepwater Exploration Geoscientist, he joined Eni Petroleum and is currently Senior Geologist in GOM Shelf Development.

David has been an active member of NOGS for the past 24 years. He has served as Secretary of NOGS, trustee of the NOGS Memorial Foundation Board, member of the NOGS Nominating Committee, and is currently serving as NOGS Best Paper Committee Chairman. Mr. Reiter has served as Co-Chairman of the 1996 SPWLA International Symposium, Poster Session Chairman of the 1997 GCAGS Convention, Golf Tournament Chairman for the 2000 AAPG Convention, and Judging Chairman for the ill-fated 2005 GCAGS convention in New Orleans. He was past V.P.-Public Relations and Treasurer of the SPWLA New Orleans Chapter and is currently serving as its President. Besides NOGS, David is also an active member of AAPG, SPWLA, and SEG.

For **VICE PRESIDENT**

HAFNER



Bob Hafner was born in New Jersey and received a B.S. degree in Geology from the University of Kansas in 1976. He earned his Master's degree from the University of New Orleans in 1980. Bob started his career with Getty Oil Company in the onshore department and worked for Texaco for 15 years after the Getty-Texaco merger. He spent two years with Mobil E & P until the Exxon takeover. Thereafter, he became a certified Earth Science teacher for Jefferson Parish and an adjunct professor at Delgado where he teaches physical and historical geology. After Katrina he did consulting work for Shell and Dominion before joining Eni Petroleum. His current position is Senior Geologist for the Shelf Exploration Group.

Bob has been a member of AAPG since 1978 and NOGS since 1981. He has been a long-term volunteer for Super Science Saturday at the Children's museum.

For **TREASURER**

HOLMAN



Chuck Holman received an M.S. from the University of Hawaii in 1982 and began his career with Mobil Oil in 1982. He transferred to the New Orleans Mobil office in 1983 and worked in various positions in the Gulf of Mexico Exploration Department. In 1992 he transferred to Dallas to work on the Mobil New Exploration Ventures Team and worked on various projects in Latin America. After Mobil, Chuck worked as consultant from 1996 to 2006 for SCA, Tecpetrol, Interactive Interpretation and Training, CGG, Avanti Consulting, Corelab, and Gaffney-Cline and Associates. Chuck then returned to New Orleans in 2006 to work as a geophysicist for Dominion Exploration & Production Company, now Eni Petroleum.

Chuck has been an active member of the local geophysical and geological societies where he has lived and is also an active member of the SEG and AAPG.

For **EDITOR-ELECT**

WISEMAN



Frances Wiseman is a New Orleans native and has worked for the Minerals Management Service/USGS for 33 years. She is currently a staff geologist with the Production & Development Program Office - Reservoir Analysis Unit, working on deepwater conservation issues in the Gulf of Mexico. Previously she worked on reserves estimates and production issues such as the downhole commingling of reservoirs. Fran is the chairperson of the GOM Recycling Committee and vice president of the Gulf Coast Recreation Association.

Fran graduated from Cabrini High School in New Orleans. She received a B.S. degree in geology from the University of New Orleans, and studied geology and petroleum engineering at LSU and Tulane. She has been a member of NOGS for 34 years and is also a member of AAPG and SPWLA. Currently, Fran serves as the NOGS Secretary.

NOGS 2009-2010 CANDIDATES

For **SECRETARY**

CONNOLLY/KEAR



Jennifer Connolly has been a Production Geologist with Shell since 2005, building 3D reservoir models and currently working on the Mars Venture Team. She is a native of Kentucky and received her

B.S. in Geology from the University of Kentucky. She moved to New Orleans in 2003 to pursue an M.S. in Geology from Tulane University. She has worked for Shell since graduating.

Jennifer is the current chairperson for the NOGS Advertising committee and a member of Shell's New Orleans Area United Way Campaign Committee. In addition, she is a wife and the proud mother of a beautiful one-year-old boy.



Rick Kear graduated from University of Florida with a BS in Mechanical Engineering in March 1972. In April 1972, he joined Schlumberger Offshore Services, Lake Charles, LA where he worked as a field engineer and special services specialist. In 1976 Rick came ashore as a Field Service Manager in Houma, LA. He has previously served Schlumberger

clients as District Manager of New Orleans East, Senior Sales Engineer and Area Sales Manager in Jackson, MS, City Sales Manager and Division Sales Manager in Shreveport, LA, Sales Development Engineer in Roswell, NM, and Division Sales Manager in Oklahoma City, OK. Rick came to work in Geology full time in New Orleans in 1996 as Gulf Coast Division Interpretation Development Geologist. He is currently the NGC (North Gulf Coast) Geology Domain Champion and Principal Geologist. His professional interests include SPWLA (Past President-New Orleans Chapter and currently VP of Symposia), petrophysics, geological and imaging interpretation (especially in resistive fluids), depositional environment interpretation, field studies, and leading field trips and workshops. Rick splits his time between New Orleans and Houston serving GoM clients. His personal interests are his family, the Lord, and his church. He is an AAPG Ass. Member, and Member of SPWLA, SPE and GCSPE and SEG.

For **DIRECTOR 2009-2012**

JOHNSON/REILLY



Art Johnson is a petroleum geologist with 32 years of diverse industry experience in exploration and development, and is a Past-President of NOGS. He is President and Chief of Exploration for Hydrate Energy International and is

engaged in exploration efforts throughout the world. Prior to forming HEI in 2002, Art was with Chevron for 25 years where his positions included New Trends Team leader. Art chaired the federal Methane Hydrate Advisory Committee from 2001 to 2006 and has advised the U.S. Congress and the White House on energy issues since 1997. He has an on-going role coordinating the research efforts of industry, universities, and government agencies. Among his many recent publications are two books, "Economic Geology of Natural Gas Hydrates", and "Alternative Energy and Fuels Technology". Art has recently been appointed as the Lead Analyst on Gas Hydrate for the "Global Energy Assessment", an international project supported by the World Bank, UN organizations, governments and NGOs.



Brenda Reilly joined Energy Partners, Ltd. in 2006. Her current responsibilities are exploitation and field management for EPL's fields in the South Timbalier area. Prior to EPL she worked for Murphy Oil Corp. (formerly Odeco) for 21 years. At Murphy she worked as a Development Geologist for their working interest properties in the offshore Gulf of Mexico until 1998 when she

was transferred to the Exploration Department. She received a Bachelor of Science degree in Geology from the University of New Orleans in 1982.

For NOGS Brenda is currently on the Best Paper Award Committee and an Alternate Delegate for AAPG. In 2007 she was awarded the NOGS Honorary Life Membership in recognition for her many outstanding contributions to the society. For NOGS she served as Chairman of the Memorial Foundation 2005-2006, Chairman of Office Operations 2005-2006, President 2004-2005, AAPG Delegate 2002-2004, Vice-President 2001-2002 and Treasurer 1996-1997. Brenda was Entertainment Chairman for the 2000 AAPG Convention held in New Orleans. She was a member of the NOGS Entertainment Committee 1994-1996, including Chairmanship from 1994-1995. She was honored with a President's Award in 1995 for her work for the society. In addition, she was Chairman of the 1996 SPWLA 37th Annual International Symposium held in New Orleans.

Outside of the oil industry, she on the Board of Directors of the New Orleans Opera Association (NOOA) where she serves on the

--- continued on page 30 ---

The Petroleum History Institute 2009 Symposium

150th ANNIVERSARY YEAR OF THE DRAKE WELL



(Drake Well Museum DW676)

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May 14 - 16, 2009

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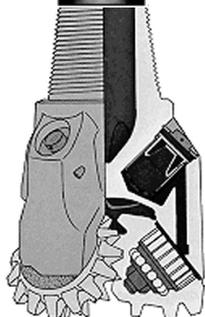
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South Louisiana and Offshore

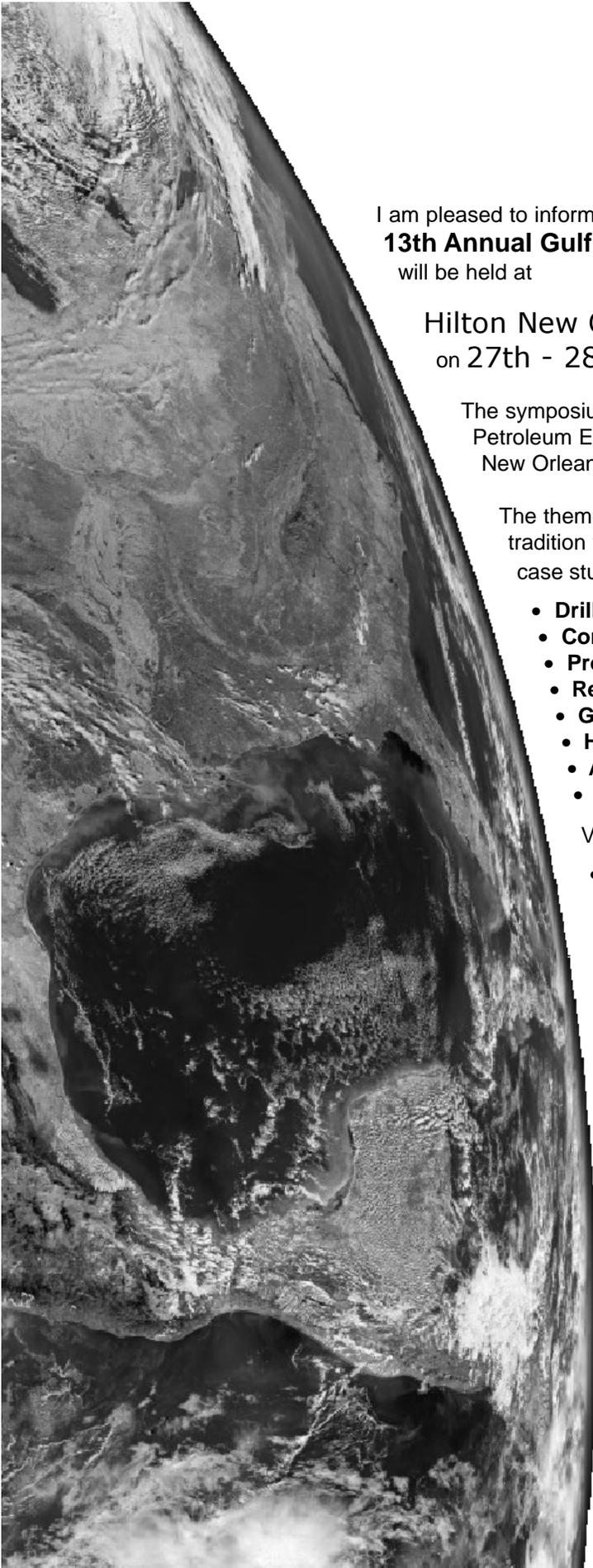
Exploration and Production Activity

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- Mariner on 2-February announced three GoM discoveries.
 - Heidelberg #1, a subsalt "Expanded Miocene" prospect located in GC Block 859, was drilled to a TD of ~30,000 feet, logging more than 200 feet of net oil pay (more than 250 feet TVT) in multiple high-quality Miocene sands. Anadarko, the operator, stated that the well encountered reservoirs of the same age and characteristics as its Caesar/Tonga discoveries. As of the press release date, well data continued to be analyzed to determine next steps in delineating and developing what appears to be a significant discovery. Heidelberg comprises Green Canyon blocks 816, 859, 860 and 903. Partners are Anadarko (operator and 44.25% WI), Mariner (12.5% WI), ENI (12.5% WI), StatoilHydro (12% WI), Cobalt International Energy, L.P. (9.375% WI), and ExxonMobil (9.375% WI).
 - Bushwood #1 (formerly Geauxpher #3), located in GB Block 463 and described as a "conventional deepwater amplitude prospect", was drilled to a TD of ~25,300 feet, logging more than 260 feet TVT of net gas pay in multiple sands, with more than 150 feet TVT of net gas pay found in the deeper exploratory section. Mariner operates and holds a 30% WI. Partners are Energy Resource Technology GoM, Inc., a wholly owned subsidiary of Helix Energy Solutions Group, Inc. (35% WI), Apache Corporation (20% WI), Deep Gulf Energy II LLC (10% WI), and Deep Gulf Energy LP (5% WI).
 - Smoothie #2, reported to be a "deep shelf prospect" in ST 49, was drilled to a TD of >20,100 feet, logging more than 200 feet TVT of net gas pay in multiple zones. Mariner operates the well holding a 100% WI.
- Anadarko Petroleum Corporation (30% WI and operator) on 4-February announced a deepwater GoM discovery. "Shenandoah", located in WR Block 52, encountered net oil pay approaching 300 feet in the Paleogene "Wilcox" formation.
 - Bob Daniels, Anadarko Sr. Vice President, Worldwide Exploration stated, "Initial data indicates the Shenandoah discovery has reservoir properties that appear to be of much higher quality than industry has seen previously in the emerging Lower-Tertiary play."
 - Shenandoah is located in ~5,750 feet of water and was drilled to a TD of ~30,000 feet. Anadarko and its partners are evaluating the well results and the next steps toward future appraisal activity. Partners include ConocoPhillips (40% WI), Cobalt International Energy, L.P. (20% WI) and Marathon (10% WI).
 - Also in the deepwater GoM, Anadarko expects to spud "Vito", a Middle-Miocene prospect in MC Block 984 and the "Samurai" Middle- and Lower-Miocene exploration well in GC Block 432 during the first quarter. Anadarko will operate both wells with a 20% and a 33.33% WI, respectively.
- Chevron Corporation on 5-February announced a new deepwater Paleogene oil discovery at Buckskin prospect in KC 872. The well was drilled in a water depth of 6,920 feet to a TD of 29,404 feet. Buckskin is 44 miles west of Chevron's 2004 Paleogene Jack discovery.
 - The Buckskin No. 1 encountered more than 300 feet of net pay. More tests are being conducted on data gathered from the discovery well, and additional work at the prospect will be needed to determine the extent and commercial viability of the discovery.
 - George Kirkland (Chevron executive vice president, Global Upstream and Gas) said, "This is a very significant discovery in the Lower Tertiary trend, where Chevron is the largest leaseholder. Continuing our success at the Jack well, Buckskin reinforces the trend's potential to provide the U.S. with important new energy supplies."
 - Partners in the discovery are Repsol (12.5% WI and operator), Chevron (55% WI, which will become operator and conduct all future work), Maersk Oil America (20% WI), and Samson Offshore Company (12.5% WI).

- Paul Post



I am pleased to inform that the
13th Annual Gulf of Mexico Deepwater Technical Symposium
will be held at

Hilton New Orleans Riverside, New Orleans
on 27th - 28th of August, 2009

The symposium is a joint effort between Delta Section of Society of Petroleum Engineers, American Association of Drilling Engineers and New Orleans Geological Society.

The theme for the symposium is "Opening THE LIMITS" with the tradition for the symposium continuing to focus on Gulf of Mexico case studies and key technologies in the following sessions

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- **Completions**
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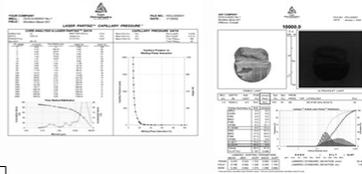
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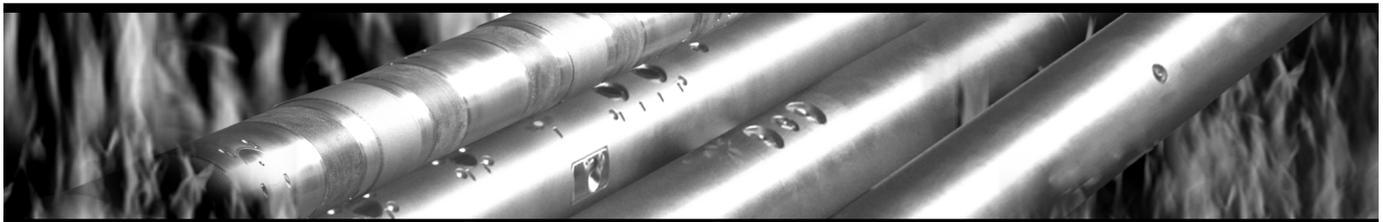
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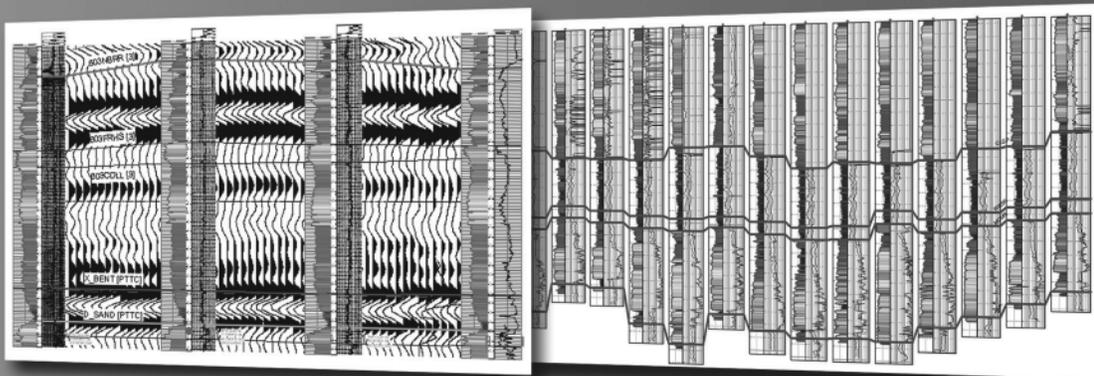


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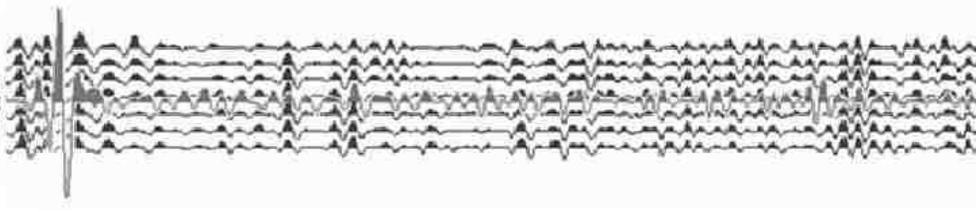
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--- continued on page 31 ---



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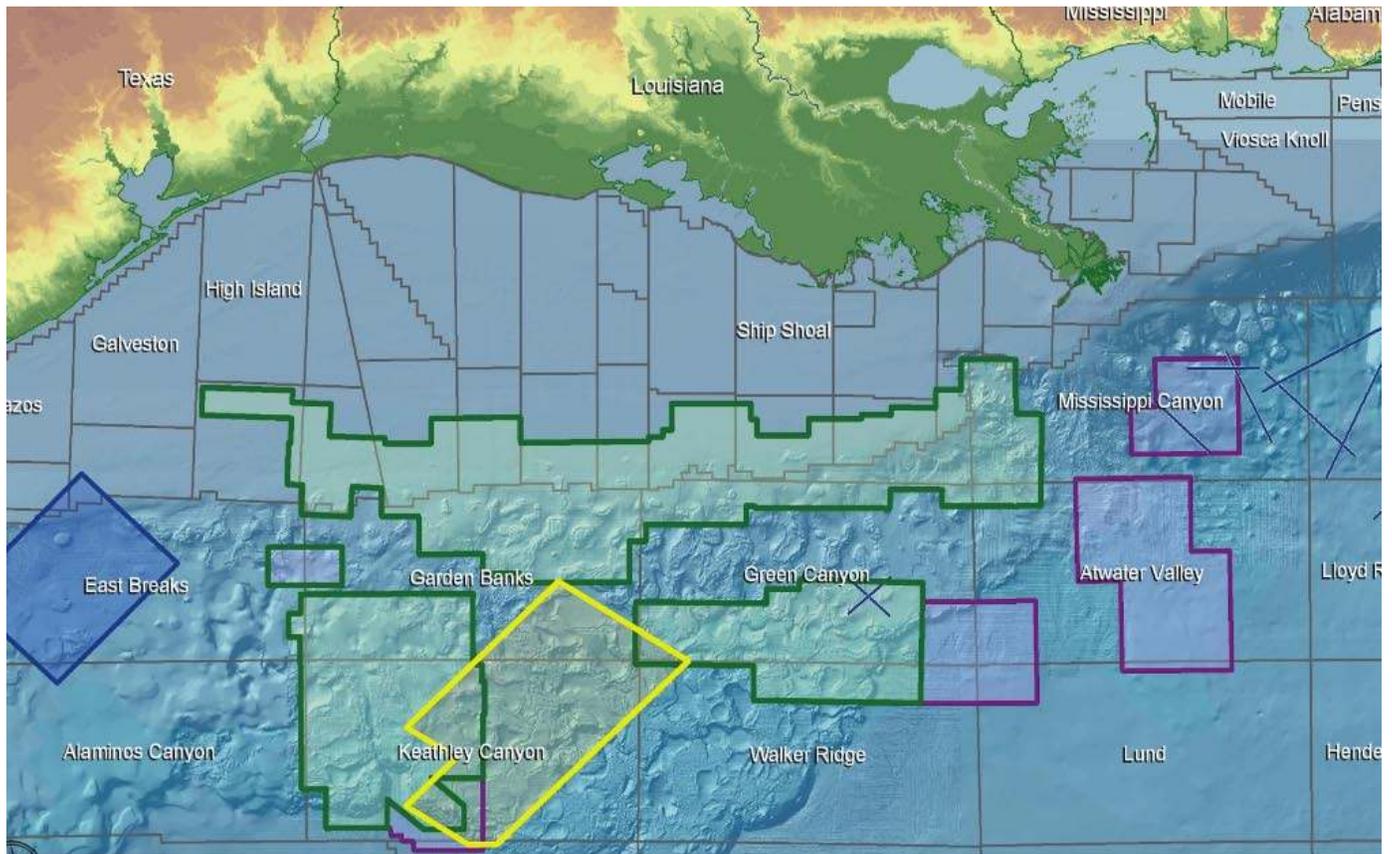
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NOGS 2009-2010 Candidates: Brenda Reilly's Bio, continued from page 17

Finance and By-Laws committees. She is also on the Board of Governors for the Women's Guild of the NOAA where she is currently co-chairing a fundraising luncheon and on an Opera Ball committee. In addition, she is on the Advisory Council of the LA/SPCA and an active member of the Visiting Pet Program.

She is a member of NOGS, AAPG, SGS and SPWLA. Brenda is an AAPG Certified Petroleum Geologist and Texas Board Certified Petroleum Geologist.



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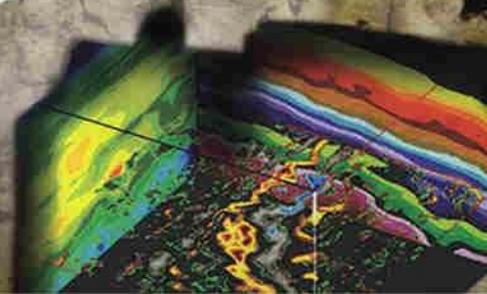
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