

NOGS LOG



February 2009

Volume 49, Number 8

Upcoming Events and Activities

February 1 - Abstract Deadline for 2009 GCAGS

September 27-29 in Shreveport. See announcement on page 13

February 2 - NOGS Luncheon

*** At the Holiday Inn Downtown Superdome ***
Free validated parking in hotel garage

Guest speaker Dr. Michael Hudec, Texas Bureau of Economic Geology,
will present "Episodic Advance of the Sigsbee Salt Canopy, Deepwater Gulf of Mexico."

(See page 7 for Abstract and Biography)

HOLIDAY INN DOWNTOWN SUPERDOME	ADMISSION:
Check with concierge or front desk for location	with reservation \$30.00 without reservation \$35.00
Lunch served at 11:30am	Student Member with reservation Free

March 2 - NOGS Luncheon

Guest speaker Dr. Peter D. Warwick, Research Geologist with the U.S. Geological Survey, Energy Resources Program, will present "USGS Assessment of Undiscovered, Technically Recoverable Oil and Natural Gas Resources in Tertiary Strata of the Gulf of Mexico Coastal Plain and State Waters, U.S.A."

March 26-27 - Louisiana Groundwater & Water Resource Symposium

At LSU in Baton Rouge. See announcement on page 8.

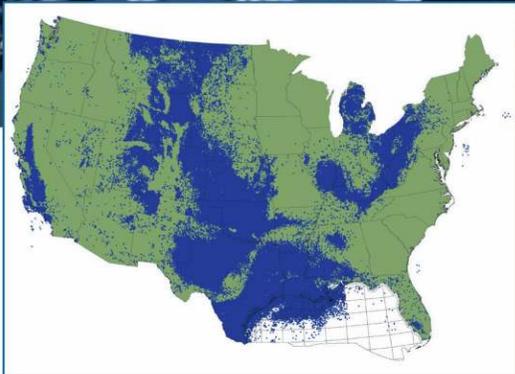
April 27 - NOGS 2009 Annual Golf Outing

Money Hill Golf & Country Club in Abita Springs. More details in the March LOG.

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 Sent to press on January 23, 2009.



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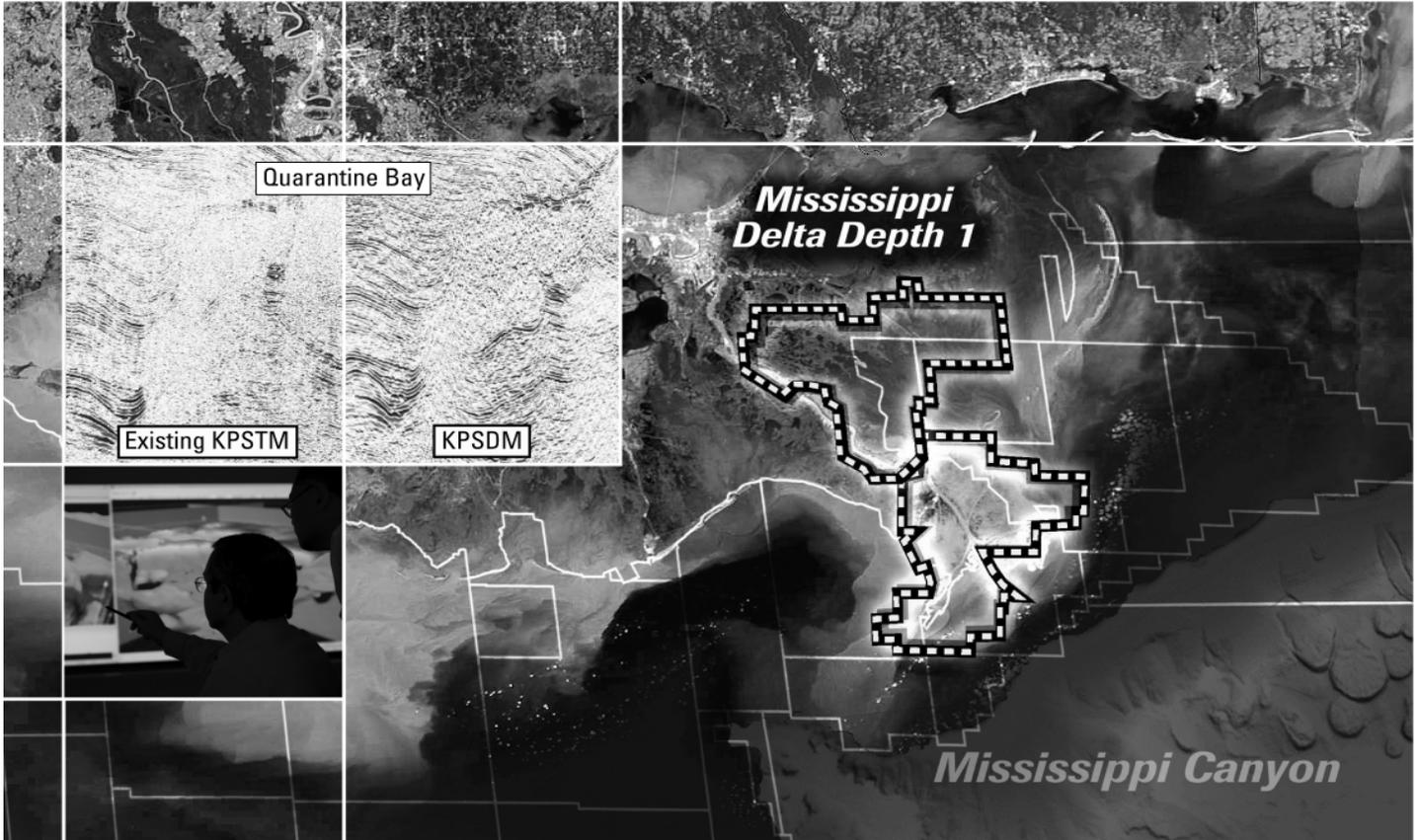
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from the President

Now we are all back from the Holidays and into the Mardi Gras season, tax preparations, etc. I enjoyed my seven days of "Winter Water Wonderland" in Michigan, which encompassed two snowstorms, an ice storm, a rainstorm, and a windstorm. As they say in Michigan "if you don't like the weather, just wait a day." Time with the family, of course, was priceless.

The nominations committee chaired by Al Baker is hard at work. We have received the data from the AAPG on the House of Delegates Election. While our current NOGS active membership is around 515 (thanks to Penne Rappold and several NOGS Board members), only 273 of these are active AAPG members that claim NOGS as their representative area. We are allowed a total of 4 delegates based on the active membership count. Two will be elected this year for a three-year term. We are currently 37 active members short of having an additional delegate. Get your renewals and new membership applications in to AAPG because only active AAPG members can vote. Forms are available via the Internet or the NOGS office. Your vote does count. The new delegates' three-year term begins July 1, 2009.

We have several open chairmanships. Two very important ones are Continuing Education and Technical Projects. The NOGS Board is in agreement in initiating a Volume 4 of *The Oil and Gas Fields of Louisiana*. With the exception of the Oct. 18 Field Trip Guidebook, now being edited for publication, it has been over a decade since NOGS produced a new publication. We still receive royalties in excess of \$1200 per annum from our old publications. Tom Bergeon has agreed to co-ordinate and make contacts for field submittals for Volume 4. Tom is a very busy man and we need a sizable cadre to get this effort up

and running. Contact Tom, the NOGS Office, Tom Klekamp, Mike Ledet or myself if you are interested in participating in this project. It would be nice to have a new publication for AAPG 2010.

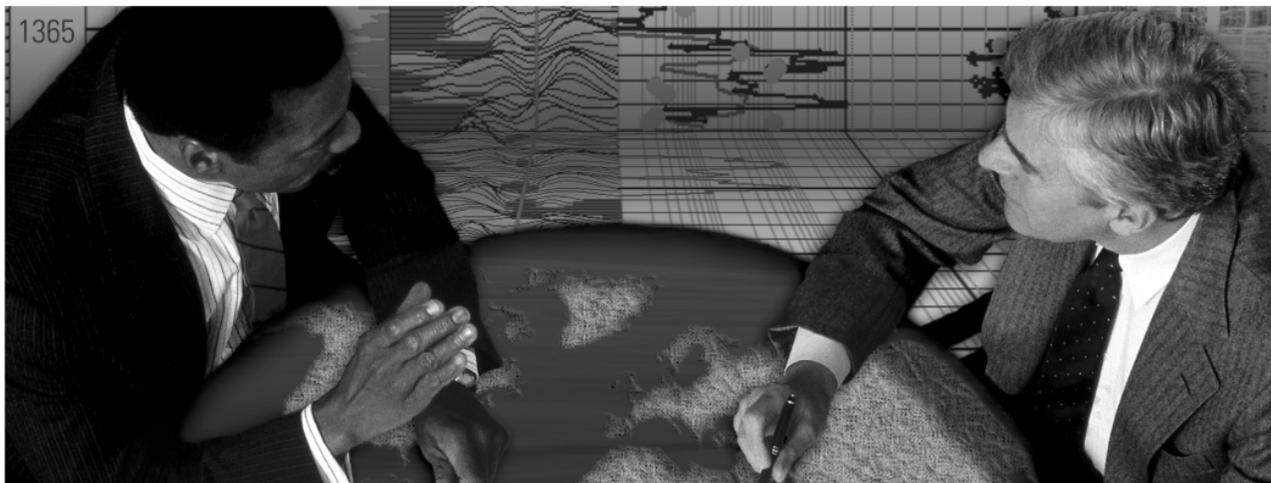
It is 2009 and 2010 is just around the corner. The AAPG National Convention is scheduled here in New Orleans for April 18-21, 2010. Tom Hudson and his co-chair Dr. Nancy Dawers still have several important chairmanships to fill which must be done soon. Art Johnson with the EMD can also use more support. Even if you cannot chair a committee, your volunteering to serve on a committee goes a long way.

Other continuing events and committees that can use volunteers this year include Super Science Saturday group, education outreach, awards group for judging at Science Fairs (always a rewarding experience), the non-technical education committee, and several groups associated with the API-Delta Chapter such as PIPES, the Neo-Professionals, and Horizons Initiative. In this organization the volunteers get the A+.

Your suggestions for continuing education courses and seminars are welcome.

Bill

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February 2 NOGS Luncheon Presentation

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

Episodic Advance of the Sigsbee Salt Canopy, Deepwater Gulf of Mexico

presented by

Dr. Michael Hudec

Texas Bureau of Economic Geology

ABSTRACT

Many areas along the Sigsbee Escarpment display two stages of salt-sheet advance: (1) an early stage fed from a deeper source layer via feeder diapirs, and (2) a later stage fed by expulsion of salt from beneath updip minibasins. The phases may be continuous if minibasins are already sinking into the updip part of the sheet at the time when the deep source layer is exhausted. However a hiatus between the two stages may occur, especially if the sheet is far from the sediment source, where minibasins are less common.

The end of Stage 1 is often triggered by ponding behind a bathymetric buttress. Buttresses can

by formed by (a) rapid sedimentation in front of an advancing sheet, (b) a fold deforming the sea floor, (c) an imbricate wedge bulldozed by the salt, or (d) a minibasin rafted against the leading edge of the sheet.

Once pinned at the end of Stage 1, constant-thickness sediments bury the leading edge of a sheet. Later subsidence of minibasins further updip inflates the leading edge of the sheet, uplifting this roof. The inflated salt may quickly break out to the sea floor if the roof is thin. Thicker roofs require a longer phase of compressional folding and overthrusting before breakout is possible.

BIOGRAPHY

Mike Hudec received his Ph.D. from the University of Wyoming in 1990 and spent the next eight years at Exxon Production Research, where he specialized in salt tectonics, extensional tectonics, and seismic interpretation. He moved to Baylor University in 1997 as an assistant professor in Structural Geology. In 2000, Mike moved to the Bureau of Economic Geology, where he is co-director of the

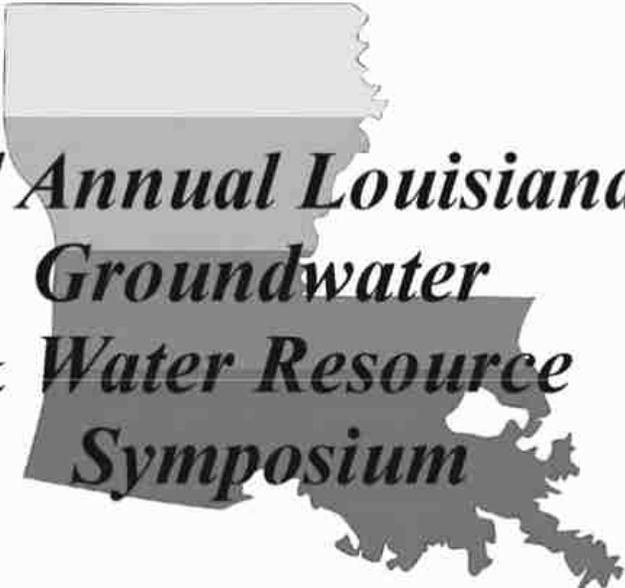
Applied Geodynamics Laboratory, an industry-funded research consortium studying salt tectonics. His current research interests include advance mechanisms for salt sheets, processes in minibasin initiation, configuration of the Louann salt basin in the deepwater Gulf of Mexico, and construction of a digital atlas of salt tectonics.

THE LUNCHEON RESERVATION DEADLINE IS JANUARY 28 - CONTACT THE NOGS OFFICE

“And Looking Ahead...”

The next NOGS Luncheon will be March 2. Guest speaker Dr. Peter D. Warwick, Research Geologist with the U.S. Geological Survey, Energy Resources Program, will present “USGS Assessment of Undiscovered, Technically Recoverable Oil and Natural Gas Resources in Tertiary Strata of the Gulf of Mexico Coastal Plain and State Waters, U.S.A.” Contact the NOGS office to make your reservation.

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First call for abstracts

Abstracts due March 6, 2009

Expanded Abstracts due March 16, 2009

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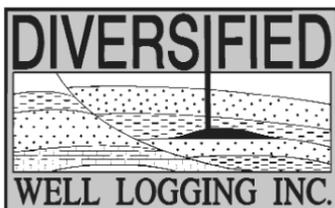
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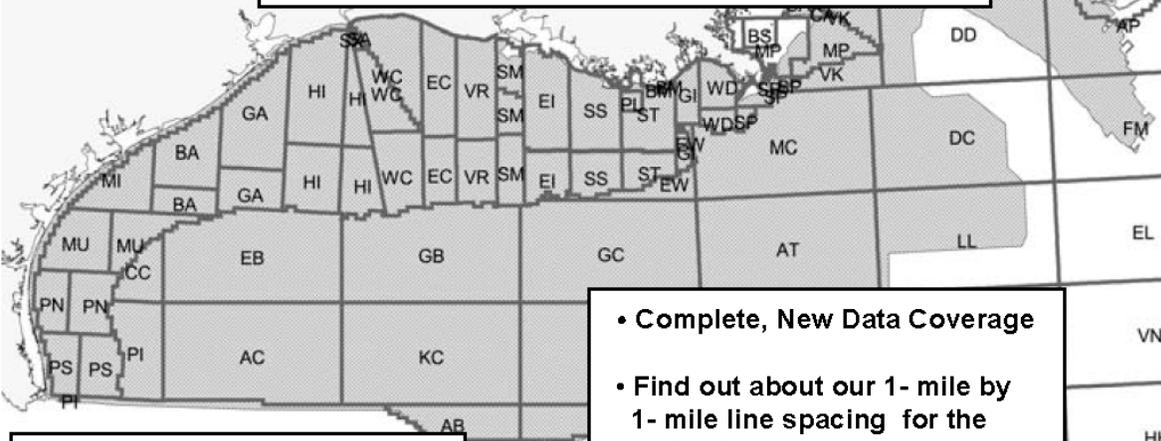
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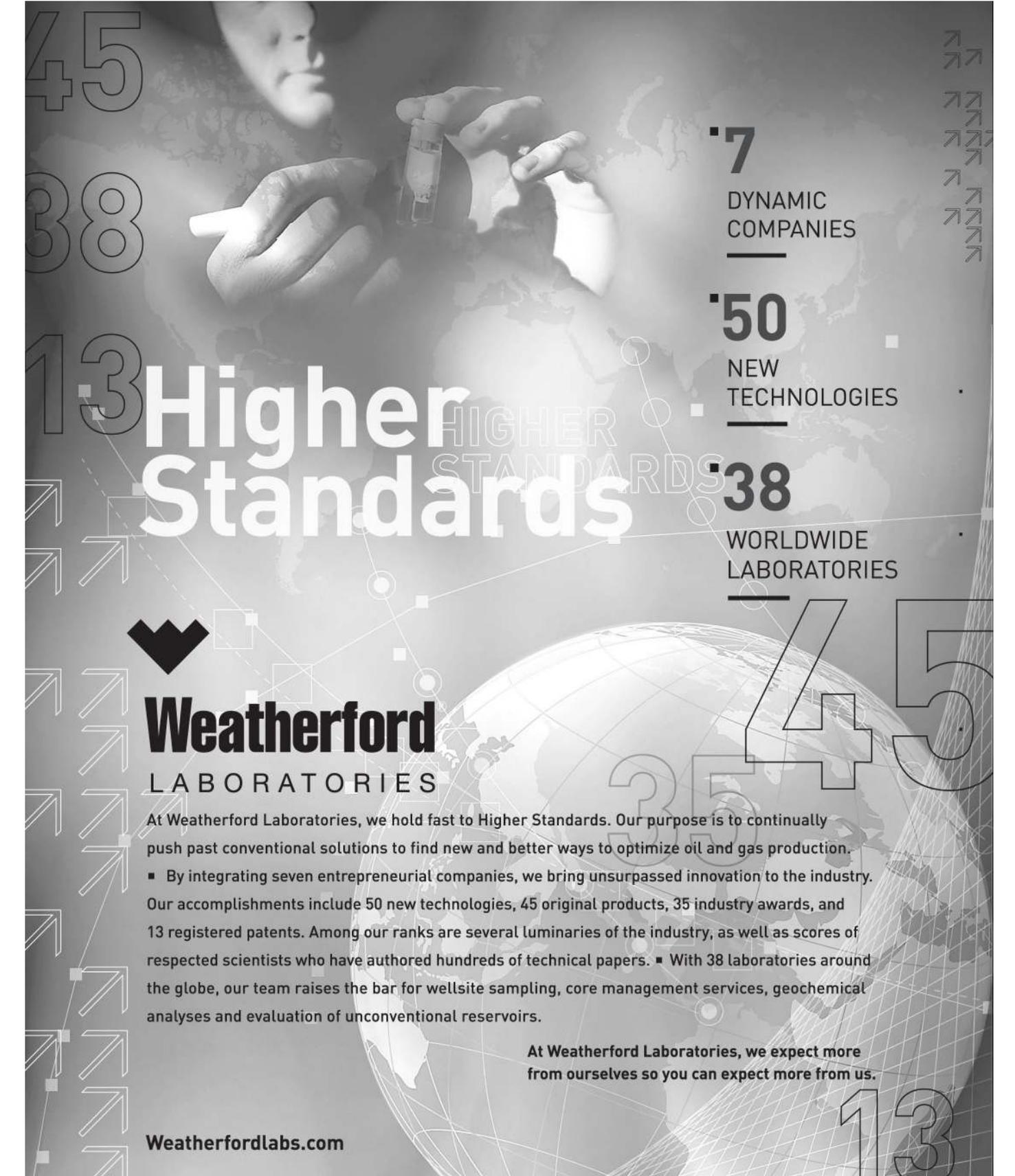
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The Shreveport Geological Society is proud to host the 2009 Annual Meeting for the GCAGS/GCSEPM. We look forward to continuing the long tradition of presenting the best of the geosciences from the Gulf Coast. Our theme, "**A Fusion of Geology and Technology**", recognizes the fact that we work using tried and proven geological concepts yet we are in the forefront of technical innovations. Our work is recorded for the worldwide geological community in our superior publication, the *Transactions*. We invite you to be a part of this process by submitting an abstract for an oral or poster presentation in Shreveport for the 2009 Convention of the GCAGS.

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Visualization, Geochemistry, & Interpretation of Geologic Systems
Tight Gas Sand Development
Water Resources & Environmental Geology
Old Fields-Rejuvenation & Enhancement
Salt Traps & Technology
Global Change and Coastal Subsidence-Dealing with the Inevitable?
Peak Oil & Bridges to Sustainability
Geology & Education-A Natural
Seismic Applications in the Upper Gulf Coast
Stratigraphy of the Cotton Valley & Louark Groups: Northern Gulf of Mexico

Abstracts for oral and poster presentations may be submitted beginning November 1, 2008, but no later than **February 1, 2009**, by logging onto www.gcags2009.com. First drafts of full papers from selected presenters that will be included in the 2009 *Transactions* volume must be submitted by April 1, 2009. Contact information for the technical session chairs, as well as instructions for authors for the 2009 *Transactions*, can be found at the GCAGS conventions website, www.gcags2009.com. For general questions on the technical program please contact Gary Hanson, 2009 Technical Program Chairman. He may be contacted via email at ghanson@pilot.lsu.edu.



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1933-2008

Tom grew up in San Francisco and Dallas where he graduated from Jesuit High School. He attended Rice University and the University of Texas where he received a B.S. in Geology. Tom then went to Texas Tech and received a M.S. degree. He went into the Navy and then to work for Honolulu Oil in Midland. Later he worked for Pan American Petroleum/ Amoco in New Orleans.

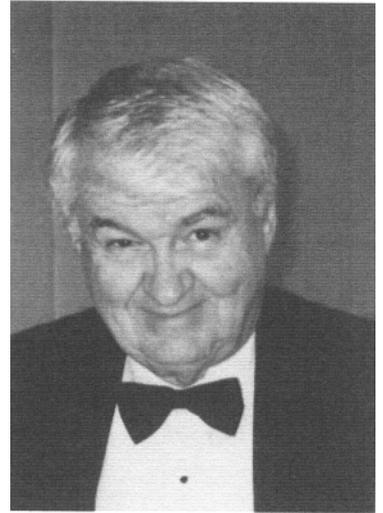
While at Amoco he enrolled at Tulane night program and received a PhD in Geology. His dissertation on the geology of the Florida Parishes is included in the Louisiana State Geological Map. After Amoco, Tom worked for Davis Oil in New Orleans and later Solatex of Houston. He formed his own company, Thomas A. Cullinan, LTD.

He married Jerrienne Carpenter Miller in the mid-1960's and together raised her two children, Keith and Juli. Tom and Jeri lived in Metairie for 40 years among many good friends. He supported many civic, social, and professional groups, particularly, the Toastmasters Club where he developed his copious list making. Also, later at the D-Day Museum where he was a charter member, and the Audubon Zoo where he donated the giraffe "Tommy". He loved animals, including his beloved miniature wirehaired dachshund, "Ralph", and even my dogs "Alfie" and "Rowan".

Tom was a man's man, and he enjoyed hanging out with the guys whether it was at "Lunch-Eat" making football bets, on the many trips we took to Europe to visit World War I and II sites, or camping out under the redwoods in California.

He was a big part of my life and there will never be another like him.

Paul Jurik



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South Louisiana and Offshore Exploration and Production Activity

DRILLBITS

- **Newfield and Deep Gulf Energy II, LLC** made a deepwater gas discovery on GB 339, Sargent Prospect. The discovery, located ~4 mi north of Auger Field in 2240 ft of water, encountered 45 ft of net gas pay. The discovery will be developed through a subsea completion to existing infrastructure in the area, with production expected in the first half of 2010. Newfield holds a 25% stake in the Deep Gulf-operated well. Deep Gulf's specialty is to focus on prospects prone to subsea completions and tie-backs to host facilities with capacity for additional volumes. LLOG Exploration Offshore, Inc. originally acquired the drilling rights to Block 339 for \$660,000 at OCS Sale 187 in August 2003.
- **Golden Gate Petroleum, Ltd.** on 6-January updated their activity at Bullseye Prospect in Iberville Parish, LA. Bullseye is a deeper pool project consisting of *Miogyp* and *Cib Haz* objectives between 12,400 and 13,500 ft on the crest of the Laurel Ridge anticline. Existing shallower normal pressured sands (10,100 to 10,600 ft) produced 146 BCF and 4 MMBO and are now depleted. The Golden Gate *et al.* Jumonville #1 discovery well was an offset to the Noble Acosta #1 in which wireline logs indicated 50 ft of pay in the *Miogyp*. The Noble Acosta #1 was lost due to mechanical difficulties. In the Jumonville #1 pay was established in the *Miogyp*, and apparent pay was indicated in the *Camerina*.

On 6-Jan, Golden Gate announced that the Jumonville #2 well was spudded on 25-December 2008. Surface casing in the well was set at 3,600 ft, and the well as of that date was being drilled ahead to the kick-off point for the directional portion of the borehole. Planned total depth is approximately 14,200 ft. Drilling to TD is expected to take approximately 60 days. While the well targets three objectives: the *Camerina*, *Miogyp* and *Cib Haz* Formations, its primary target is the deeper *Cib Haz* reservoir which is contained in the same trap as the shallower productive intervals. Although deeper than the proven *Miogyp* reservoir and the apparent pay in the *Camerina* section, the *Cib Haz* is considered to have a high probability of success. Proprietary 3D seismic data, which provided an accurate pre-drill estimate of pay thickness in the Jumonville # 1 well, indicates substantially thicker reservoir sand over a larger area in the deeper *Cib Haz* reservoir. Partners in the Jumonville #2 well are: Golden Gate Petroleum Ltd (operator and 43.33% WI), Modena Resources Limited (15.00% WI), Quest Petroleum NL (6.67% WI), Pantheon Resources PLC (15.00% WI), and Eastern Advisors (20.00% WI). Golden Gate will have a 41.25% WI following back-in rights of the project vendor.

If the deeper test is successful, the combined reserves of the *Camerina*, *Miogyp* and *Cib Haz* have the potential to make Bullseye one of the largest onshore discoveries in South Louisiana in recent years. According to the operator, unrisks reserves in the prospect range from 27.1 MMBOE (P90) to 38.4 (P10), with P50 and mean reserves being 32.5 and 32.7 MMBOE, respectively.

During the transport and rig-up of the H&P #79 rig that is drilling the Jumonville #2, the Jumonville #1 well was shut-in. It is currently back online FARO approximately 570 BO and 300 MCFG/D. Production rates are being monitored to test the optimal flow rates from the reservoir now that a gas sales line is connected and production constraints have been removed.



The Golden Gate et al. Acosta #1 well will be tested directly into production facilities on or before 10-January. The well was drilled to a TD of 12,475 ft. Logs and side wall cores indicated over 20 ft of net pay in the Miogyp Formation and over 20 ft in the Camerina Formation. Both log correlations and samples are consistent with results obtained from drilling the Jumonville # 1 well. The indicated oil column was at the upper end of the Golden Gate's expectation. The Acosta #1 will provide confirmation of the oil-water contact and reservoir thickness, supporting the reserve estimates along with providing a production and cash flow increase. Partners in the Acosta #1 well are: Golden Gate Petroleum Ltd (41.25% WI and operator), Modena Resources Limited (9.00% WI), Quest Petroleum NL (5.00% WI), Pantheon Resources PLC (11.25% WI), and Eastern Advisors (12.00% WI).

- Paul Post

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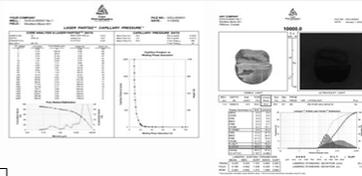
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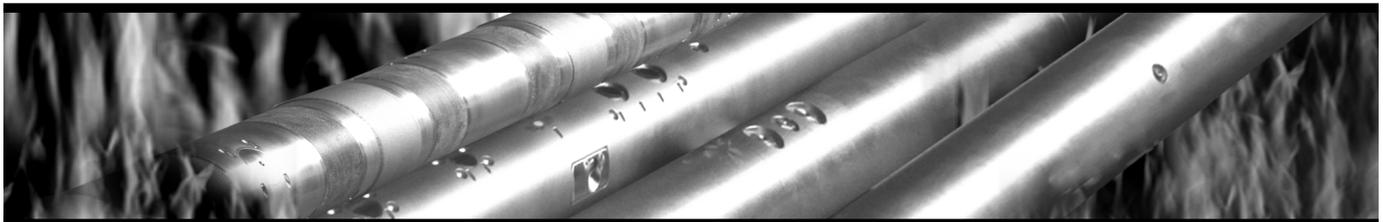
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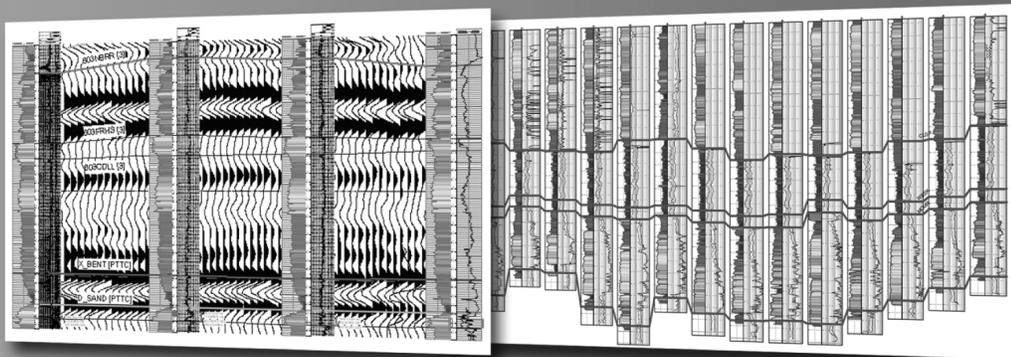


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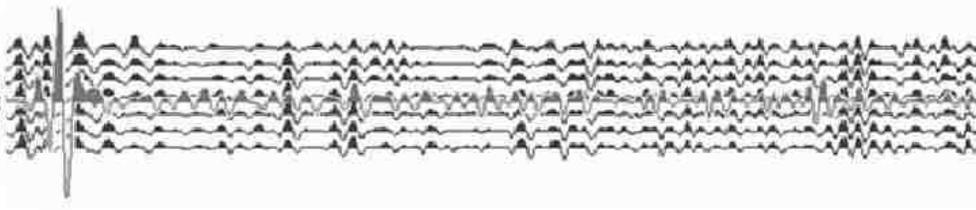
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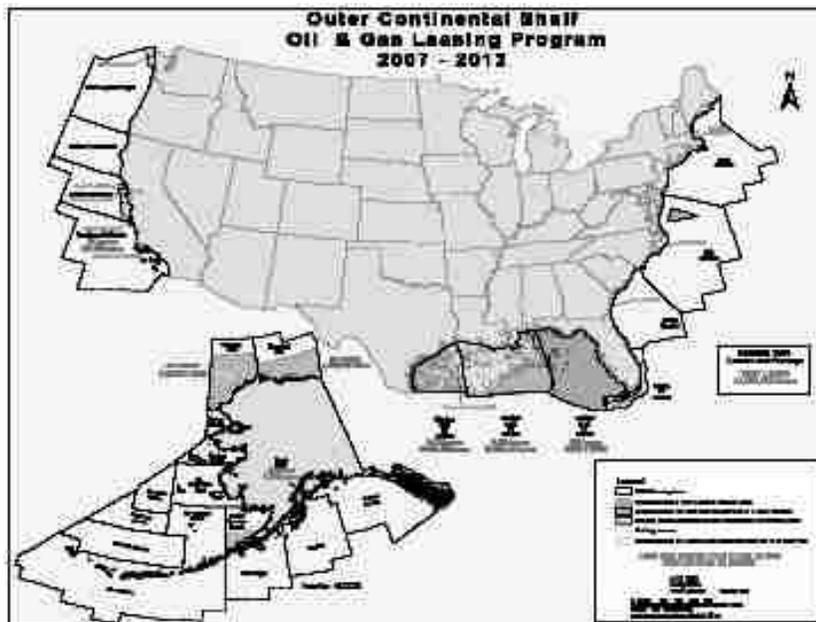
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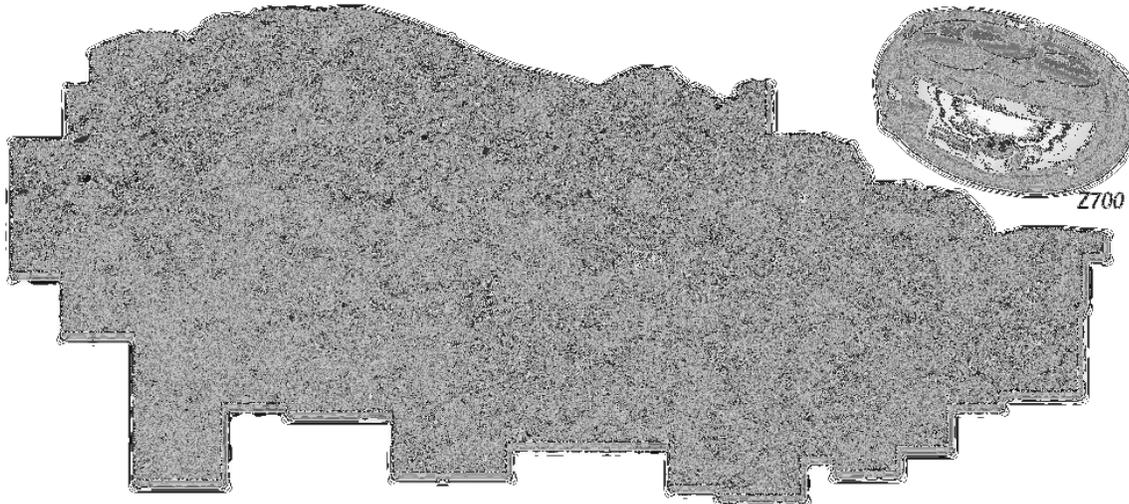
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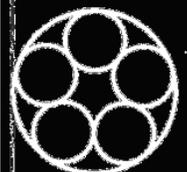
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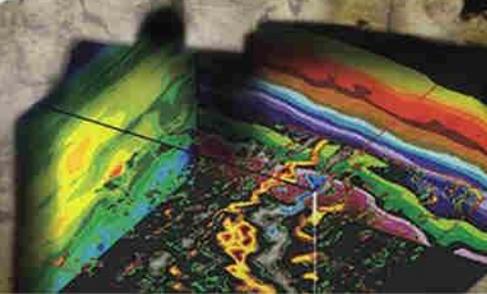
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