

# NOGS LOG



November 2008

Volume 49, Number 5

## Upcoming Events and Activities

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### November 3 - NOGS/SGS Joint Luncheon

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

Free validated parking in hotel garage

Jack Pashin, Director of the Energy Investigations Program for Geological Survey of Alabama will present "CO<sub>2</sub>-Enhanced Oil Recovery Program in Citronelle Field, Southwest Alabama."

(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

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### November 7 - SEES 33rd Annual Mineral Auction

6:30pm at Univ. of New Orleans, Geology Department. See page 25 for announcement.

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### November 8 - Super Volunteer Day

9:00am-Noon at City Park. See page 30 for announcement.

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### November 17-18 - Louisiana Subsidence & Land Loss Symposium

Energy, Coast and Environment Bldg at LSU in Baton Rouge. See page 17 for announcement.

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### December 1 - NOGS Luncheon

Guest speaker Brian Lock, University of Louisiana at Lafayette, will speak about the Imperial Barrel Competition – with students present.

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### December 7-9 - 29th Annual GCSSEPM Foundation

#### Bob F. Perkins Research Conference

In Houston. "Unconventional Energy Resources: Making the Unconventional Conventional."

See announcement on page 8.

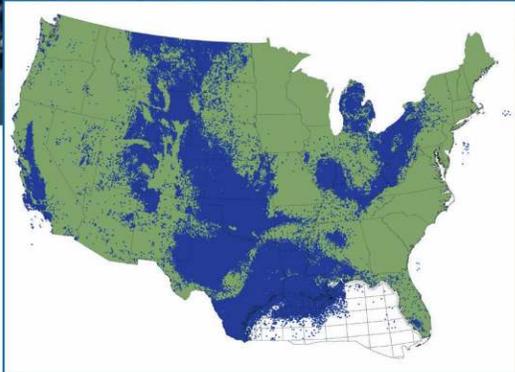
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### December 12 - NOGS Holiday Party

Cannon's Restaurant, 4141 Saint Charles Avenue. See announcement on page 13.

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 The office is located at Suite 300, 810 Union Street, New Orleans, LA 70112.  
 Correspondence and all luncheon reservations should be sent to the above address.  
 Sent to press on October 20, 2008.



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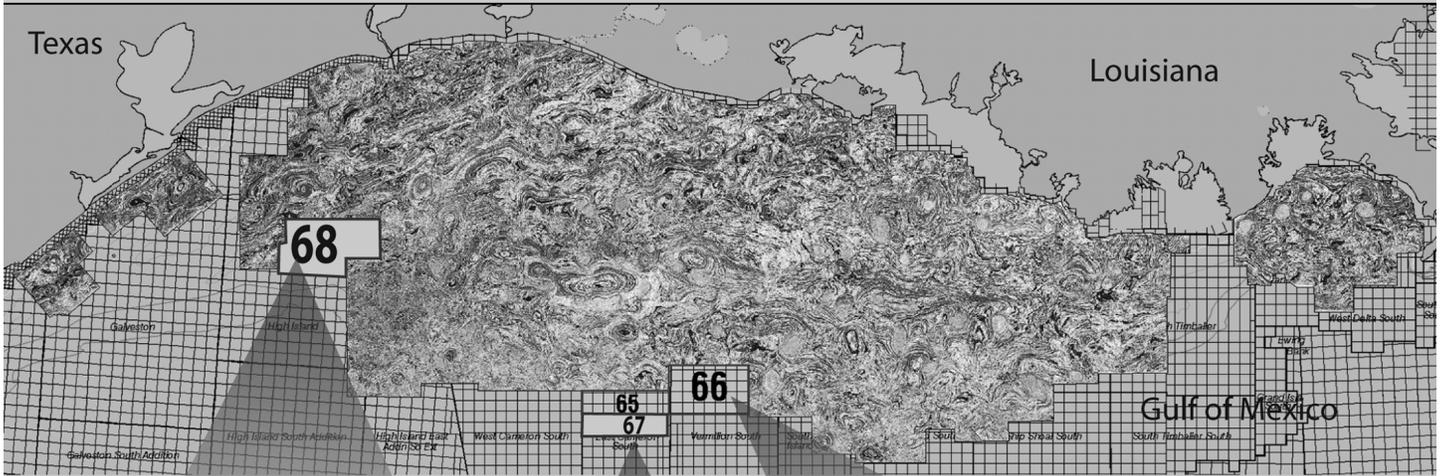
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*from the President*

This letter starts on 10/04/08 after a walk around "Discovery Green" in front of the Brown Convention Center in downtown Houston, site of the GSA/GCAGS/SSA-ASA-CSSA Joint Annual Meeting. The downtown area was definitely ready to host large conventions. It was clean and children were playing in the water park and fountains, families were picnicking together, and groups of young adults exercised in the great fall weather. Nearly 8500 were registered, not including exhibitors. I enjoyed sharing lunch and conversation with a MSU professor, Dr. A.T. Cross, still going at 92. Many individual talks were excellent and informative. I am more used to seeing technical petroleum industry displays in an exhibit hall, but could accept the large, green John Deere Harvester. There were plenty of diverse displays and book stores. It was also good to see some friends.

The semi-annual GCAGS Board meeting on October 5th was well attended with almost all officers, representatives, committee heads, and presidents of the member Societies present. Rick Fritz, AAPG executive director, was also present. Current growth in AAPG membership was a major discussion point. Ken Nemeth is to be commended for his effort this past year as president. The President's reception at The Grove is also worth remembering. All business was concluded by 2 PM. The GCAGS in combination with its member societies (including NOGS) has given over \$135,000 in grants and scholarships over the years. The Corpus Christi Society was cited for their maps and rocks in schools program. A copy of the Committee and Society Report is in the NOGS Office.

The "Kick Off" party at the New City Grill in Old Metairie was a success, and the food was of high caliber. Thanks to Tom Klekamp our President-elect and his wife Amber and NOGA our fall season is off to a good start. Some of our newer members were in

attendance. This is a good way to meet our membership in a relaxed social atmosphere. I encourage more of you to attend our business, educational, professional and social events.

Our "new" webmaster, Ed Picou, is busy upgrading our web site and links with the goal of maintaining and improving its user-friendliness. Contact Ed if you have any suggestions.

Our scholarship recognitions luncheon was held Oct 13th (postponed from September 8th due to Hurricane Gustav). However, the checks were mailed out in September to the department heads as we did post Katrina. Good job by Art and the Foundation Board. There is a new scholarship in the works, more in a future LOG.

The Field Trip scheduled for October 18th, "The Baton Rouge Fault and its Friends," is a near sellout. Plenty of hard work has gone into logistics planning, site selection, and write-ups by Tom Klekamp, Dave Garner, Kathy and Kelly Haggar, Clare Falcon, Rick McCullough, and, of course Dr. Woody Gagliano. The weather this weekend promises to be great.

Mike Miner has asked that all NOGS LOG content be submitted by the second Monday of each month. His email for submissions is mminer@uno.edu.

A reminder: Tom Hudson and his co-chair Dr Nancye Dawers are organizing their committees for the AAPG 2010 scheduled to be in New Orleans in April of that year. VOLUNTEERS. VOLUNTEERS, VOLUNTEERS

*Bill*

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# November 3 Joint NOGS/SGS Luncheon Presentation

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

## CO<sub>2</sub>-Enhanced Oil Recovery Program in Citronelle Field, Southwest Alabama

presented by

**Jack Pashin**

Director, Energy Investigations Program, Geological Survey of Alabama

### ABSTRACT

Citronelle Field is developed at the crest of Citronelle Dome, which is a giant salt-cored anticline in the eastern Mississippi Interior Salt Basin of southwest Alabama. More than 169 million barrels of 42-46° gravity oil have been produced from the Lower Cretaceous Donovan Sand in Citronelle Field. Production has declined significantly, but CO<sub>2</sub>-enhanced recovery operations have strong potential to revitalize the field. Citronelle Dome is located near a major coal-fired power plant, and major capacity exists for the sequestration of CO<sub>2</sub> emissions from the power plant in saline reservoirs between the Donovan Sand and the Cretaceous chalk of the Selma Group.

Citronelle Dome is an elliptical structure in plan view that forms a simple four-way structural closure with limbs dipping less than 3°. The Donovan oil accumulation is sealed by a thick succession of shale and anhydrite with the oil-water contact being more than 100 feet above the structural spill point of the dome. The Donovan Sand is extremely heterogeneous and contains a multitude of oil accumulations in stacked marginal-marine sandstone bodies. The thickness of individual pay zones typically ranges from 2 to 25 feet. Individual sandstone bodies are

aggradational deposits, and the Donovan interval can be subdivided into two retrogradational sequence sets. Approximately 37 percent of the original oil in place has been recovered by primary and secondary methods, and CO<sub>2</sub>-enhanced oil recovery has the potential to increase reserves by up to 20 percent.

A 5-spot well pattern in the northeastern part of Citronelle Field is being developed for a pilot program in which 15,000 tons of CO<sub>2</sub> will be injected. Injection will take place simultaneously into two sandstone units and will be performed as a water-alternating-gas (WAG) program. The injection well is located in a thin area in the two target sandstone units, and the thickest pay sections are in the eastern part of the well pattern. CO<sub>2</sub> will be injected in two slugs of 7,500 tons, and baseline reservoir simulations indicate that this injection will result in a nearly four-fold increase of the oil production rate in the pilot area. Based on modeling results, continuous injection of 115 kilotons of CO<sub>2</sub> will maximize sweep of the pilot area and can potentially increase the maximum oil production rate of the 5-spot pattern from less than 40 to nearly 600 barrels per day.

### BIOGRAPHY

**Jack Pashin** is director of the Energy Investigations Program of the Geological Survey of Alabama. He received a Ph.D. in Geology from the University of Kentucky in 1990. His primary research focus is petroleum geology, coal geology, and carbon sequestration. Dr. Pashin has

published extensively and has received numerous awards for his research. He currently serves on the editorial boards of the AAPG Bulletin and the International Journal of Coal Geology and is Vice Chair of the Coal Geology Division of the Geological Society of America.

**THE LUNCHEON RESERVATION DEADLINE IS OCTOBER 29 - CONTACT THE NOGS OFFICE**

### “And Looking Ahead...”

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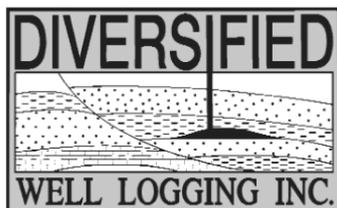
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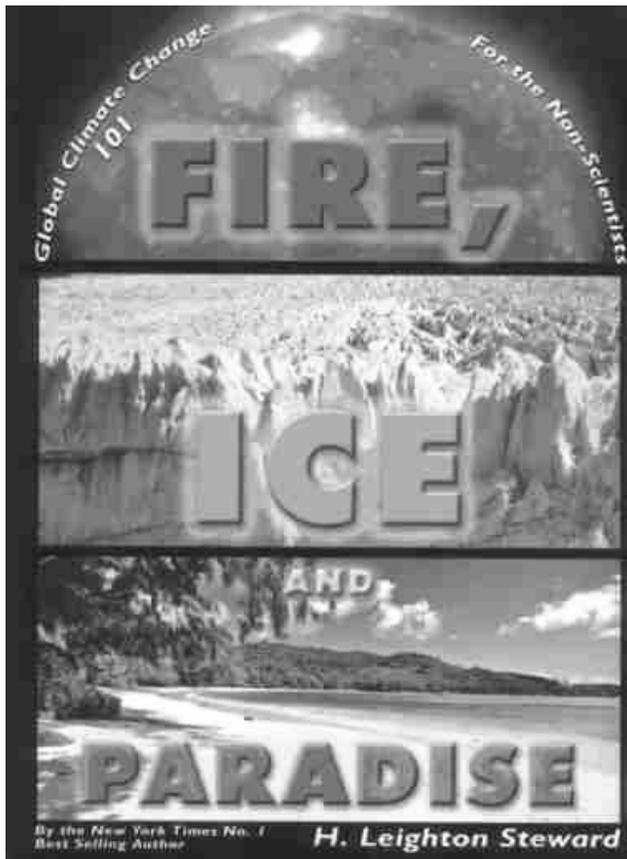
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| 2011a)           | Robert Rooney        | Century Exploration  | 504-832-3777 | Robert.rooney@centuryx.com |



## Are You Interested in Global Climate Change?

H. Leighton Steward, long-time NOGS member and former CEO of the Louisiana Land and Exploration Company, has published an excellent book that lays out all of the “science” that bears on the issue. However, he makes no judgments. The text avoids technical terms as much as possible and has 39 excellent figures, plus a glossary and references. His book was reviewed in the October 2008 AAPG **EXPLORER** by Lee C. Gerhard.

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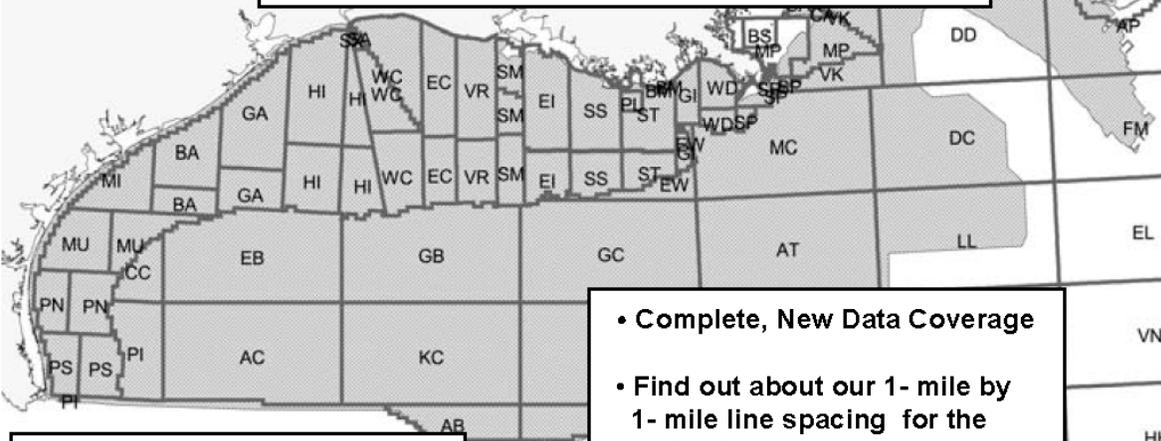
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## **George W. Schneider Sr. Memorial Scholarship**

The NOGS Memorial Foundation is pleased to announce the creation of a new \$2500 scholarship that will be awarded for the first time next year. The scholarship is named in honor of George W. Schneider Sr., the first president of NOGS. The scholarship will rotate between three universities, with a student from UNO being the recipient for the first year, a Tulane student for the second year, and an LSU student for the third year. The scholarship may be awarded to a junior, senior, or graduate student.



George W. Schneider Sr. was a remarkable individual and a great geologist. He was born in Denver in 1899 and graduated from the Colorado School of Mines in 1921 with a degree in “Engineer of Mines”. After working in a variety of positions for several companies, George joined The Texas Company (later Texaco) in 1924. After initial assignments in Colorado, Montana, and Kansas, George was assigned to the company’s Louisiana-Arkansas Division, which included not only those states but also all of the Southeastern U.S. and with portions of East Texas.

During his 30 year career with Texaco George rose to the position of Division Geologist and played a vital role in the company’s extraordinary exploration and production success. He was an outstanding geologist and executive, and was also highly regarded for his interactions with others. As George’s responsibilities grew with the expansion of the division, he maintained his balance and objectivity, using his skills and authority to guide others. His positive approach to life was challenged by health issues, including throat surgery that left his voice a hoarse whisper. George overcame such adversity with determination and a positive spirit. After leaving Texaco, George continued his exploration success as a consultant until his death in 1963.

George was an AAPG member for 38 years, serving on several committees and helping put on two national conventions. He was active in the Shreveport Geological Society while living in that city, including serving as its President. After moving to New Orleans in 1941, George was instrumental in forming the New Orleans Geological Society and served as our first President. It is fitting that a scholarship has been established as a memorial to him.

This scholarship has been made possible by a generous initial gift from his son, George W. Schneider Jr., a longtime NOGS member and former editor of the NOGS Log. Our plan is that with additional donations to the Memorial Fund, we will eventually be able to have George W. Schneider Sr. scholarship recipients at UNO, Tulane, and LSU every year. I hope that you will consider a generous donation to help make this happen.

***Art Johnson***

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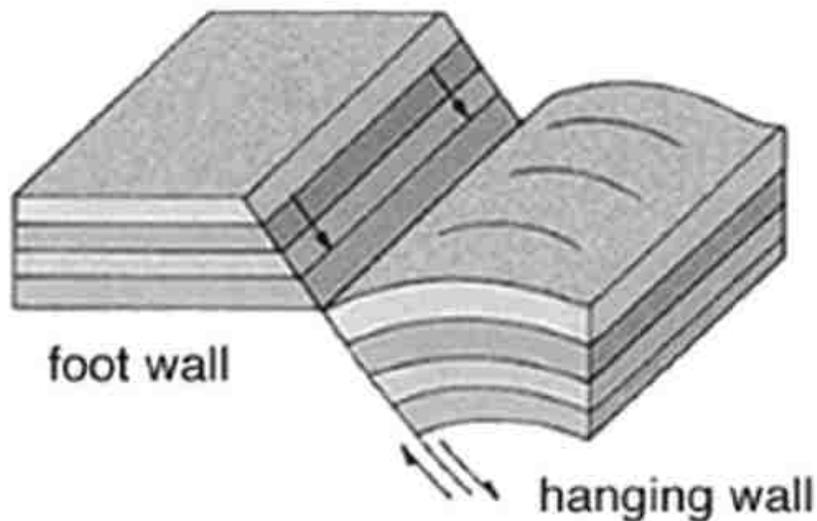
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**MAURICE GORDON FREY**  
**1913-2008**



First in exploration — first in teaching — and first in the admiration of his Industry and University compatriots.

Maurice Gordon “Doc” Frey, who died at age 95 in New Orleans on September 12, 2008, had a truly remarkable career. Born in Cincinnati, he earned his bachelors and masters degrees at the University of Cincinnati, and his PhD at the University of Minnesota.

He joined Chevron (Standard Oil of California) in 1939, and was in on the ground floor of Saudi Arabian exploration and discovery, doing gravity and seismic work there until World War II forced Chevron to return him to the States. Since then, with Chevron, he has been in almost all of Chevron’s (then, The California Company’s) major locations: Denver, Casper, San Francisco, and New Orleans.

But, the oil industry was not everything. In 1948 he left Chevron, in San Francisco, to teach for four years at his old alma mater, the University of Cincinnati.

In 1952 he returned to Chevron, first in Denver, and then at his final and longest lasting location, New Orleans.

In New Orleans he was Chief Geologist for all of Chevron’s operations out of that office, which then included not only Offshore and South Louisiana, but also the Mississippi - North Louisiana Salt Basin, plus the Appalachians, Michigan, the Mississippi, Alabama, and Florida Gulf Coasts, and peninsular Florida.

In New Orleans his warmth and friendliness made him the mentor of many young geologists, including the writers of this article. Few in management were as open, approachable, and helpful.

His abilities and energy were not confined to Chevron. Always active in the New Orleans Geological Society, he was its President in 1969-70. In 1976, Doc Frey served as General Chairman for the AAPG-SEPM convention hosted by NOGS.

His friendliness and interest in others led him back into teaching again in 1976, this time at the University of New Orleans. There he taught geology for 17 years until his retirement in 1993. Those 17 years included five summers teaching at UNO’s extension school in Innsbruck, Austria.

As he did at Chevron, he won the affection of his UNO students and faculty colleagues.

His life was not all geology and teaching. He married his life-long companion, Marjorie Wells Frey, of Colfax, Louisiana, in 1945. They had two daughters, Ellen Frey Anderson, now deceased, and Beverly Frey Strange. Ellen and Beverly have borne them five grandchildren, and, to date, seven great grandchildren.

“Doc” left his mark on many who were fortunate to have known him. He is admired, and he is missed.

*Duncan Goldthwaite*  
*Bob Branson*



## South Louisiana and Offshore Exploration and Production Activity

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- **Brigham Exploration Co.** on 10 September announced that its fourth consecutive 2008 Southern Louisiana well was successfully drilled and production tested from two separate zones at rates of approximately 13.9 MMCFG/D and 4.6 MMCFG/D. Brigham's previously announced third Southern Louisiana discovery at Breton Sound was production tested at a rate of approximately 6.0 MMCFG/D.

Brigham successfully drilled and completed the Cotten Land #5, a twin to its high production rate Cotten Land #3 discovery. The Cotten Land #5 successfully targeted the upper 50 feet of apparent pay which remains behind pipe in the Cotten Land #3 producer. The Cotten Land #5 was recently production tested from the 50-foot pay interval at a rate of approximately 13.9 MMCFG/D. In addition, a lower pay interval with approximately 7 feet of pay was also production tested at an initial rate of approximately 4.6 MMCFG/D. A third apparent pay interval, also approximately 7 feet thick, was encountered above both intervals but has not yet been tested. Brigham retains a 45% WI and 33% NRI in the Cotten Land #5, and expects completion to sales in October. Penn Virginia is also a participant with Brigham in the Cotten Land wells, and operates the wells during the production phase.

Brigham successfully drilled and is currently completing its third consecutive joint venture well with Clayton Williams Energy Inc. The Breton Sound SL 19054 #1 was recently production tested at an initial rate of approximately 6 MMCFG/D. Brigham retains a 50% working and 39% revenue interest in the Breton Sound SL 19054 #1.

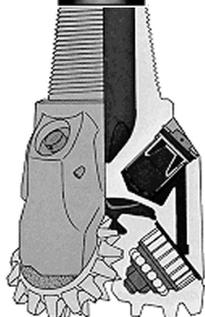
Brigham previously announced the successful production tests of its first two 2008 Southern Louisiana discoveries, the Chandeleur Sound SL 19312 #1 and the Main Pass SL 18826 #1. Brigham retains a 50% WI and 38% NRI in the SL 19312 #1, and a 50% WI and 39% NRI in the SL 18826 #1.

- **Golden Gate Petroleum** on 29 September advised that the Jumonville #1 at Bullseye Prospect, Iberville Parish, Louisiana, began initial flow testing on 25 September after being perforated in the upper 8 feet of the 47 feet of *Miogyp* sand pay. The initial production rate was 520 BOPD of 40.8°API oil, with no water, and 293 MCFGPD through a restricted 7/64" choke after the initial 24 hour period. The current surface flowing pressure of 7,323 psi showed little drawdown from the initial surface pressure measurements.

The small percentage drawdown at the current flow rate indicates that the *Miogyp* reservoir is capable of much higher deliverability. The initial perforations and flow rates have been restricted to avoid damage to the reservoir during the initial testing period. After the completion of permanent production and distribution facilities (about two weeks), the flow rate will most likely be increased from the initial rates in order to determine the full deliverability of the reservoir.

In effect, commercial production began with the testing because the temporary production facilities were sufficient to handle the testing program.

The Company's reserve estimate from the *Miogyp* will be refined over the coming weeks with follow-on drilling and a reserve audit. In addition, there is further



significant upside with the Jumonville #2 well which will test the larger reserves of the deeper *Cib Haz* interval. The well should be spudded within the next 6 to 8 weeks

Separately, the Golden Gate and its partners remain confident of a discovery of apparent net oil/gas pay observed in the Jumonville # 1 well in the *Camerina* sands approximately 200 feet above the *Miogyp* interval. Flow testing of this interval was not possible in the current borehole. Discoveries in the two objectives above the *Cib Haz* (*Miogyp* and *Camerina*) provide confidence for the deeper target, as these reservoirs all have the same trapping mechanism. The Company hopes to have the opportunity to formation test the *Camerina* in the offset Jumonville #2.

There are now two wells on the Bullseye prospect, Jumonville #1 and the previously Noble drilled Acosta #1 well that was never tested but identified 50 feet of *Miogyp* sand. These two wells combined with the upcoming Jumonville #2 well and the existing 3D seismic data provides confidence in the structural definition of the field assisting reserves quantification and future planning for development drilling.

Planning and permitting has already begun for the Jumonville #2 well from the existing location. This well will test the deeper *Cib Haz* interval and provide an added penetration of the *Miogyp* reservoir 1,500 feet to the west of Jumonville #1, further increasing proven reserves. The drilling plan will allow for formation fluid testing prior to setting intermediate casing across the *Miogyp/Camerina* interval, the well will then be drilled to test the deep objective at 14,400 feet. A drilling rig has been located and is expected to start drilling Jumonville #2 within 6 to 8 weeks. As production facilities will be completed, this well will be put on-line immediately after completion.

The deeper *Cib Haz* interval is contained in the same trap as the proven *Miogyp* reservoir and is therefore considered to have a high probability of success. The proprietary seismic data, which provided an accurate pre-drill estimate of pay thickness in the current well, indicate substantially thicker reservoir sand over a larger area in the deeper reservoir. If this deeper test is successful, the combined reserves of the *Camerina*, *Miogyp* and *Cib Haz*, would make Bullseye one of the larger onshore discoveries in South Louisiana in recent years.

Golden Gate Petroleum Ltd (43.33% WI) is the operator of the Jumonville #1 well. Partners are Modena Resources Limited (15.00% WI), Pantheon Resources PLC (15.00% WI), Eastern Advisors (20.00% WI), and Nuenco (6.67% WI). The WIs do not reflect the back-in rights of project vendor.

**- Paul Post**



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- **UNO Society of Earth and Environmental Sciences (SEES) 33rd Annual Mineral Auction** will be held on November 7, 2008. Benefits SEES and supports student field trips. Auction items include unique rock and mineral hand specimens, fossils, and jewelry. Photos of this year's lots can be viewed at:  
<http://www.flickr.com/photos/8325701@N07/sets/72157608017954724/>
- **US Geothermal power generation estimate:**  
The US Geological Survey has released the first assessment in over 30 years of the U.S.'s capability to produce geothermal power. Results of the study titled, 'National Geothermal Resource Estimate' indicate that the United States has approximately 9,057 Megawatts-electric (MWe) of power generation potential from conventional, identified geothermal systems, 30,033 MWe potential from conventional, undiscovered geothermal resources, and 517,800 MWe potential from unconventional (high temperature, low permeability) resources. Geothermal energy is a domestic, renewable energy resource that is highly underutilized according to the USGS study. In 2005 nearly 15,000 Gigawatt-hours of geothermal power were generated in the U.S., accounting for 25% of domestic nonhydroelectric renewable electric power generation ( 4,055,400 total Gigawatt-hours of electricity were produced in the United States in 2005).  
More at: <http://www.usgs.gov/newsroom/article.asp?ID=2027>  
USGS Fact Sheet: <http://pubs.usgs.gov/fs/2008/3082/>  
USGS Energy Resources Program: <http://energy.usgs.gov/>
- **NASA Jet Propulsion Laboratory (JPL) Space Gallery:**  
Navigate through our solar system, galaxy, and universe on the JPL's new website packed with amazing images captured by NASA spacecraft. The user can navigate the site by clicking on the planet of interest. There are also sections devoted to asteroids and imagery from outside of our solar system. Brief figure captions summarize each image with links to more detailed accounts of the imagery and related research.  
Go to: <http://www.jpl.nasa.gov/gallery/>

- *Clare Falcon and Mike Miner*

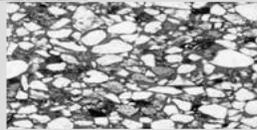
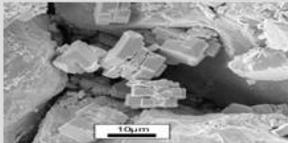
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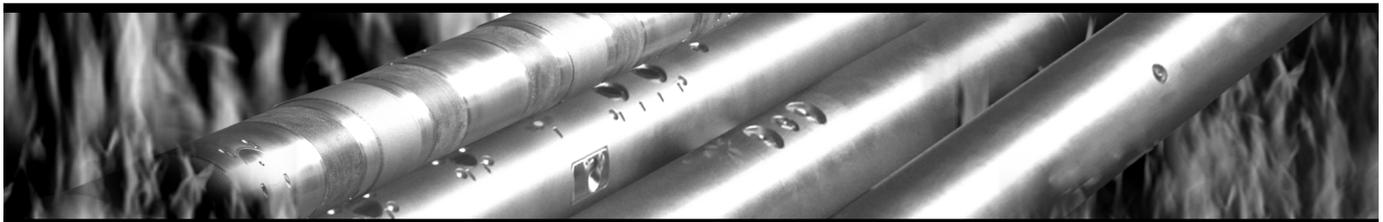
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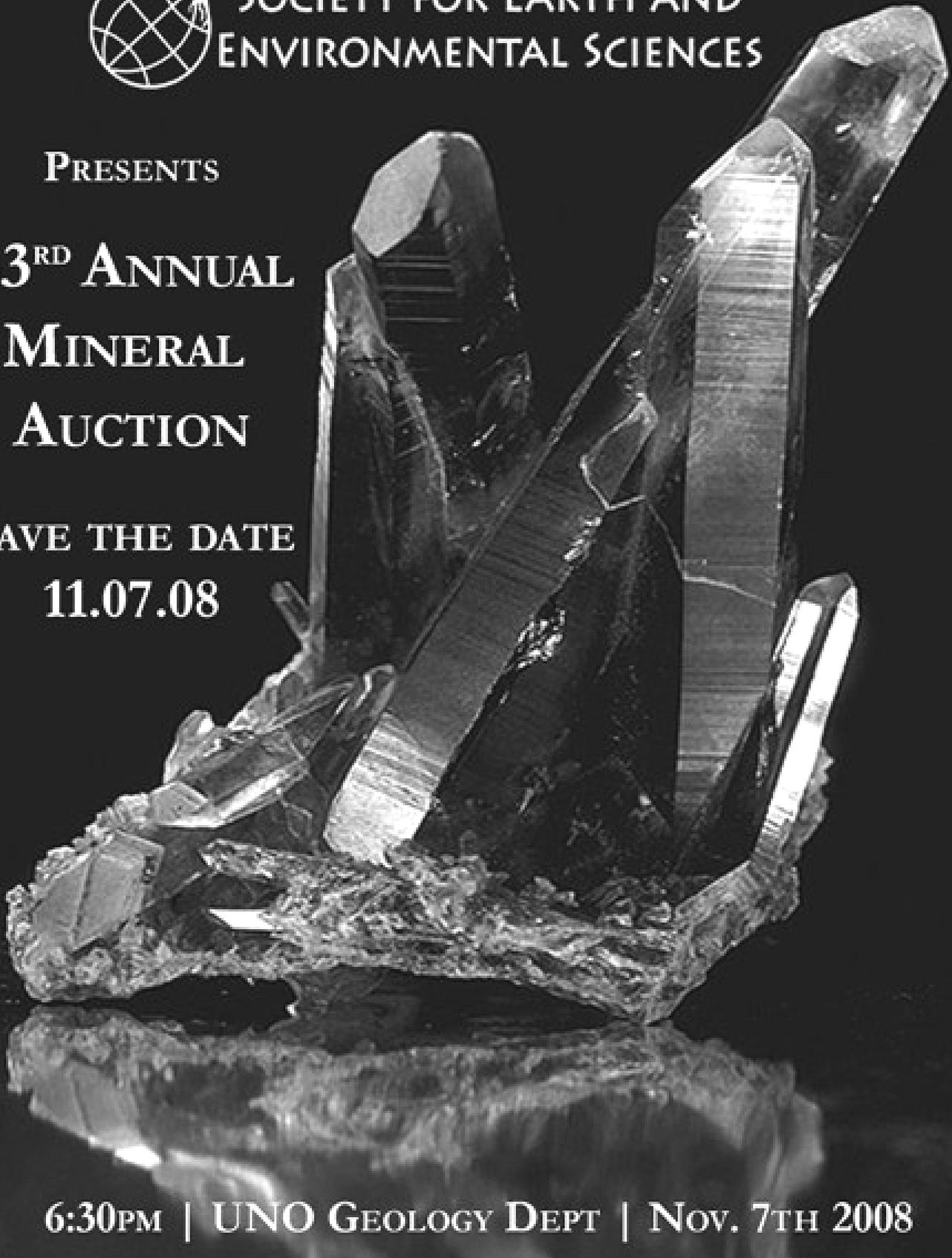


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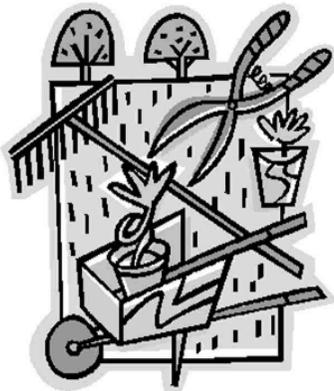
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**November 8 - Super Volunteer Day  
9:00am-Noon at City Park**



Volunteers are invited to meet in front of Storyland at 9:00 a.m. Work assignments and tools will be handed out at that time. Last year NOGS installed the lighting for Celebration in the Oaks. This year work may include pruning, raking, cutting grass, picking up trash, and planting. Please dress appropriately for the season and bring your own garden gloves, sunscreen, and insect repellent, along with any food and drink you wish to consume. Since we don't know how many volunteers will show up each week, please bring yard tools if you have them. No chainsaws!

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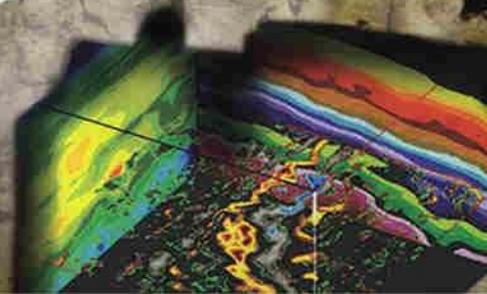
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