

# NOGS LOG

MARCH 2019

Volume 59, Number 9



**MARCH 12 - SPE/NOGS LUNCHEON PRESENTATION**  
**"Energy Development on Outer Continental Shelf - Challenges and Opportunities"**

**Guest Speaker: Keith Couvillion**  
**Chevron USA, Inc. • Houston, Texas**

# APRIL.6.2019

11:00 am - 3:00 pm



## SUPER SCIENCE SATURDAY

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420 Julia Street • New Orleans, Louisiana 70130



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### ***Interested in contributing to the NOGS LOG?***

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## on the cover

**Cover photo credit: Weazelwise.com**

### **Palo Duro Canyon — Texas**

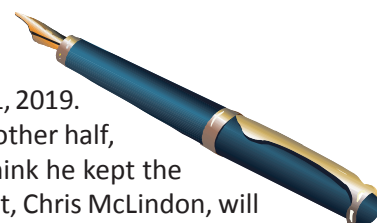
Palo Duro Canyon is located in the Panhandle of Texas near the city of Amarillo. It is the second largest canyon in the United States. The length is 120 miles with an average width of 6 miles, but the width can be 20 miles in some places. The depth is about 820 feet but can be as deep as 1000 feet in places. It is sometimes called the Grand Canyon of Texas due to dramatic geologic features such as multicolored layers of rock and steep mesas.

Palo Duro Canyon was downcut by the Prairie Dog Town Fork Red River, during the Pleistocene, when the whole region was uplifted. Water erosion over the millennia has shaped the canyon's geological formations. Most of the strata visible in the canyon were deposited during the Permian and Triassic periods.

Oil and gas are produced from the Palo Duro Basin primarily from the northwestern boundary and the southern boundary of the province. The southern production, located on and near the Matador Arch, is the most important volumetrically. Shale gas reservoirs have become more important with better well technology. In July 2017 the Anadarko and Palo Duro basins and the Amarillo Arch accounted for 98,270 Bcf of the Midcontinent's total assessment, a 49.3% increase (32,460 Bcf) from the 2014 estimate.

*Information from Wikipedia, DOI USGS Publication, NGI Shale Daily website*

# From the Editor



Our president, Alex Janevski, presided over the last Board of Directors meeting on Feb. 11, 2019. This was his last official duty as president of NOGS. He is off to New Mexico to be with his other half, Rosalyn. He was an excellent president, always very professional and knowledgeable. I think he kept the organization's by-laws at his fingertips. He did a great job and will be missed. Vice President, Chris McLindon, will be filling in (again!) as our president. We are lucky to have a dedicated member like Chris.

Some fun activities are upcoming on our calendar of events. The NOGS-PLANO-SPWLA Golf Tournament is on Friday, May 3rd, and is always fun. Kids will love Super Science Saturday on April 6th. Volunteers are needed for both events. Contact Robert Rooney to volunteer for the golf tournament and Tom Bergeon for the Super Science Saturday. Many thanks to these great guys for organizing these events.

Don't forget to set your clocks ahead on March 10th. Daylight Saving Time is returning, and I can't wait.

*Fran*  
**Fran Wiselady,**  
**NOGS LOG Editor**



## FROM THE PRESIDENT **CHRIS MCLINDON**

Surprisingly, Louisiana is in the minority of states that do not have a state atlas of geological faults. The Louisiana Coastal Geohazards Atlas Project is a joint development of the Louisiana Geological Survey (LGS) and the New Orleans Geological Society (NOGS). The Atlas Project will seek to combine the strengths of each organization to produce a comprehensive assessment of the surface and near-surface geology of south Louisiana including faults, and to publish that assessment in atlas form.

Over the next four months I will use the President's Letter as a forum to describe the Atlas and its applications. I will begin here with an overview of the Atlas Project and in successive months describe the mechanics of the construction and implementation of the Atlas, and its wide-ranging applications including each of these areas:

1. Transportation and Infrastructure Planning and Development
2. Groundwater Resource Management
3. Coastal Subsidence and Wetlands Loss
4. Coastal Sustainability Project Design and Planning

Prior to this joint development project, LGS has focused primarily on the assessment of surface geology in areas where there is adequate elevation to see geological features expressed topographically and to investigate and map soil and sediment outcroppings. NOGS has focused primarily on the subsurface geology of the coastal parishes of southeastern Louisiana and the continental shelf. Historically the contribution of NOGS to the study of subsurface geology has been through the construction of atlases of subsurface geological interpretations of oil and gas fields and salt domes.

In 2015 NOGS began a program to coordinate access to oil and gas industry data for university research projects examining the relationships between subsurface geology and surface coastal processes such as subsidence and wetlands loss. Access to geological and geophysical data under this program has come primarily through direct donations of seismic surveys to the University of New Orleans (UNO) and Tulane University and through internships at oil and gas companies for graduate student researchers at UNO and the University of Louisiana at

Lafayette (ULL). Since 2012 a total of nine university research projects have used oil and gas industry data to study the relationship between geology and coastal processes. The principal investigation has been to map geological faults that appear to extend to the land surface. These faults, mapped in every project, appear to play a significant role as a cause of subsidence and to affect both rates and patterns of subsidence across the local study areas. To date, three of these research projects have resulted in completed master's in science theses, one of which has been published in a peer-reviewed technical journal. It is anticipated that these eight projects, and all future projects undertaken through the Atlas Project will result in the publications in peer-reviewed technical journals.

The total combined area of investigation of the nine projects is about 2,500 square miles. While these projects have begun the process of working toward a more complete comprehension and prediction of subsidence on a local scale, the scope of the research needs to be significantly expanded to begin to address the regional scale, and to contribute to comprehensive, coast-wide modeling efforts of the integrated natural systems. The primary impetus for the Atlas Project is to expand the scope and pace of university research utilizing oil and gas industry seismic data to allow for the development of the Atlas in its comprehensive form.

This proposal is intended to directly address two essential findings of the Consensus Study Report of the National Academies of Science, Engineering and Medicine: Understanding the Long-Term Evolution of the Coupled Natural-Human Coastal System: The Future of the U.S. Gulf Coast.

"Research Gap 2: The causes, rates, and patterns of subsidence along the Gulf Coast are not sufficiently well understood to allow for accurate prediction at the local to regional scale."

"Barrier to Communication 3: The size and complexity of the energy industry, as well as apparent limitations to information sharing, present a barrier to effective communication between the energy industry and other stakeholders. Opportunity 3: Create an incentive structure that fosters information sharing between the energy industry and other stakeholders, as well as protocols for how to engage more effectively to facilitate information sharing. This process could be facilitated by a third party such as a boundary organization."

The foundational premise of the Atlas Project is that there is a direct relationship between the research gap in the understanding of subsidence in coastal Louisiana and the barrier to communication with the energy industry. The exploration for oil and gas has made subsurface south Louisiana one of the most well-understood geological provinces on earth. Billions of dollars have been expended

over the past few decades on the acquisition of seismic data to image the subsurface and the drilling wells that have recorded detailed stratigraphic information, and yet almost none of this massive knowledge base has been utilized in the study of surface geological processes and their impact on subsidence. Through the preliminary stages of the development of the Atlas, LGS and NOGS have demonstrated that they can act very effectively in the role of boundary organizations to facilitate information sharing between the energy industry and academic research institutions. The university research projects that have resulted from this information sharing have demonstrated unequivocally that energy industry knowledge base is an essential component in understanding the causes, rates and patterns of subsidence along the Louisiana coast. The Atlas Project seeks to expand the scope and pace of the research.

The Louisiana Coastal Geohazards Atlas project team was assembled in January 2018:

Dr. Charles Groat - Acting Director of LGS, former CEO of TWIG, former director USGS

Dr. Jeff Hanor - Professor Emeritus, LSU Dept of Geology & Geophysics

Dr. Woody Gagliano - CEO, Coastal Environments, Inc.

Dr. Gary Kinsland - Professor, ULL School of Geosciences

Dr. Nancye Dawers – Chair, Tulane School of Earth and Environmental Sciences

Dr. Mark Kulp - Director of the Coastal Research Laboratory, UNO

Dr. Raphael Gottardi – Assistant Professor, ULL School of Geosciences

Dr. Karen Wicker – Senior VP, Coastal Environments, Inc.

Dr. Elizabeth McDade - Geological Consultant, 30 years oil and gas industry experience

Mr. Chris McLindon – Vice President, New Orleans Geological Society

Mr. John Johnston - Geological Review, Louisiana Geological Survey

Mr. Rick McCulloh - Research Associate, Louisiana Geological Survey

Mr. Paul Heinrich - Research Associate, Louisiana Geological Survey

Mr. Michael Merritt – Retired SLFPA-W

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## 2018 NOGS Highlights – A Look Back at Last Year's Activities

Ed Picou  
Chair, Historical Committee

Due to the serious decline in advertising revenue, printing copies of the *NOGS LOG* for members could not be continued. Members will receive digital copies via the website. Those members wanting hard copy issues must pay \$90 per year. With the decrease in revenue for the *NOGS LOG*, coupled with the fact that the NOGS business office's lease was expiring in May, the Board decided to close the office to save money. Annette Hudson, our Administrative Assistant for the past quarter-century, retired at the end of June. On August 1st NOGS employed Christy Himel to replace Annette. In September, NOGS launched a new and improved website, which provides more functionality for members.

Other notable events included our March Luncheon, where to commemorate the 300 Anniversary of the founding of New Orleans, Roy Campanella presented an interesting talk detailing events associated with the city's founding. On April 7, NOGS sponsored the ever-popular Super Science Saturday event at the Louisiana Children's Museum. On May 18, the joint NOGS-PLANO-SWPLA Golf Tournament was held at the new Bayou Oaks course in City

Park. The jointly sponsored Louisiana Geological Survey-NOGS Louisiana Coastal Geology Symposium was held July 10-11 at LSU. On August 22-24, the 22nd Annual Deepwater Technical Symposium was presented, sponsored by SPE-Delta, NOGS and AADE. On September 19, the NOGS Kick Off Party was held at NOLA Brewing. Earth Energy Day was held on September 22, at the Louisiana Children's Museum. NOGS participated in the "Believe in Girls" event at UNO on September 29. On December 1st, NOGS sponsored a Field Trip to Baton Rouge to the Lower Mississippi River Physical Model. The final event of the year was our Annual NOGS Christmas Holiday Party, which was held at the Filmore in City Park on December 8th.

In closing, we note the passing of these long-time NOGS members: Jim Hartman\* (1/11), Hank Ecroyd (9/27), Phil Johnson (10/1), Tom Klekamp\* (10/4) and Bob Branson\* (11/1) \*Denotes past president of NOGS.

For previous years' highlights, visit the NOGS website. On the Homepage, go to the About NOGS tab and then click NOGS History on the dropdown menu.



## NOGS Contact Information

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Treasurer	Mary Walther	504-392-9332	Peggy Rogers	2018-20	504-392-6323
Parliamentarian	Alma Dunlap	504-737-2678			
Member-at-Large	Trudy Corona	504-737-6101			



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# March 12 • SPE/NOGS Luncheon

**Holiday Inn Downtown Superdome**

\$3.00 validated parking in hotel garage

## Presentation:

**Energy Development on Outer Continental Shelf -  
Challenges and Opportunities**

## Guest Speaker:

**Keith Couvillion**

Chevron USA, Inc. • Houston, Texas

*See page 8 for Abstract and Biography*

## **HOLIDAY INN DOWNTOWN SUPERDOME**

Check with concierge or  
front desk for location.

Lunch served at 11:30 am

## **ADMISSION:**

**With reservation..... \$30.00**

**Without reservation ..... \$35.00**

**Student Member with reservations..... FREE**

**VOLUNTEERS  
NEEDED!**

**April 6**  
**Super Science Saturday**

Louisiana Children's Museum • New Orleans, Louisiana

For more information: [tom.bergeon@upstreamexp.com](mailto:tom.bergeon@upstreamexp.com)

**VOLUNTEERS  
NEEDED!**

**April 16**

**SIPES 4th Annual Membership Drive Crawfish Boil**

The Harbor Bar and Grill • Metairie, Louisiana

For more info: Eric Broadbridge, [eric@northcoastoil.com](mailto:eric@northcoastoil.com) or 504-884-0049

See announcement on page 10

**May 3**

**NOGS-PLANO-SPWLA Golf Tournament**

Bayou Oaks at City Park • New Orleans, Louisiana

4-Player Scramble • Shotgun Start at 8:30 a.m.

See page 23 for more details or [www.nogs.org](http://www.nogs.org)

**May 19-22**

**AAPG Annual Convention**

Henry B. Gonzalez Convention Center • San Antonio, Texas

For more information: <https://ace.aapg.org/2019>

## **NOGS CONTACT LIST**

*Continued from previous page*

### **MEMORIAL FOUNDATION**

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2018-2019	Trustee	William M. Whiting
2019-2020	Trustee	David Reiter
2019-2020	Trustee	TBD
2020-2021	Trustee	TBD
2020-2021	Trustee	TBD

### **AAPG DELEGATES**

#### **Term Ends**

2018	Earl Cumming
2018	William M. Whiting
2018(a)	Dave Balcer
2020	Elizabeth McDade
2020(a)	G. Alex Janevski

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## March 12 SPE/NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

### Energy Development on Outer Continental Shelf - Challenges and Opportunities



*Presented by*

**Keith Couvillion**

Chevron USA, Inc. • Houston, Texas

#### BIOGRAPHY

**Mr. J. Keith Couvillion** is currently Chevron's North America Exploration and Production Company's Land Advisor for onshore and offshore activities in the United States and Canada. Mr. Couvillion originally joined Texaco after graduating from college and has worked either onshore or offshore for over 39 years in many staff and management capacities supporting Texaco's, and now Chevron's, exploration and production operations onshore and offshore in North America.

Mr. Couvillion is active in many industry trade and professional associations supporting Outer Continental Shelf (OCS) activities. He is a past Chairman of both the OCS Advisory Board and American Petroleum Institute's Offshore Issues Subcommittee, and a former Vice-President of AAPL. Mr. Couvillion is a frequent presenter in industry and academic forums both domestically and internationally addressing various offshore issues. He also has published numerous articles on topics of interest to the offshore industry. Mr. Couvillion holds a Bachelors and Master's degree in Business from Lamar University.

#### ABSTRACT

The purpose of this presentation will be to provide the audience with a general overview of the opportunities and challenges facing the oil and natural gas industry in exploring for and developing offshore resources on U. S. submerged lands. The current leasing program will be discussed along with the Department of Interior's evolving policies regarding offshore energy development. The changing regulatory environment will also be discussed as will some of the challenges the offshore industry will face in the future.

**THE MARCH LUNCHEON RESERVATION  
DEADLINE IS MARCH 8.**

*"And Looking Ahead . . ."*

The next luncheon will be held on April 1st. Our guest speaker will be Ramil Ahmadov with New England Research, Inc. Reservations online at [www.nogs.org](http://www.nogs.org) or by email at [admin@nogs.org](mailto:admin@nogs.org) or call 504-348-3500.

[www.gcagshouston.com](http://www.gcagshouston.com)



## 69th Annual Gulf Coast Association of Geological Societies 2019 GCAGS Convention

October 23-25, Marriott Westchase, Houston

Hosted by the Houston Geological Society and the GCSSEPM

General Chair: Mike Erpenbeck, Vice Chair: Larry Bartell, GCAGS President: Deborah Sacrey

**Submit an Oral or Poster Abstract by March 4, 2019**



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# CALENDAR OF EVENTS: MARCH - MAY 2019

*If you know of upcoming seminars or academic events that may be of interest to our members, please email the event details to Fran Wiseman at [nogseditor@gmail.com](mailto:nogseditor@gmail.com) to be included in the monthly calendar.*

2019	EVENT	LOCATION	CONTACT / INFO
4 Mar	<b>CALL FOR PAPERS OR POSTERS - GCAGS Convention</b> Oral or Poster Abstract by March 4th		See page 18 this issue
12 Mar	<b>SPE/NOGS Luncheon Presentation</b> Speaker: Keith Couvillion • Chevron USA	Holiday Inn Superdome	Reservations: <a href="http://www.nogs.org">www.nogs.org</a> Email: <a href="mailto:admin@nogs.org">admin@nogs.org</a> Call: 504-348-3500
1 Apr	<b>NOGS Luncheon Presentation</b> Speaker: Ramil Ahmadov • New England Research, Inc.	Holiday Inn Superdome	Reservations: <a href="http://www.nogs.org">www.nogs.org</a> Email: <a href="mailto:admin@nogs.org">admin@nogs.org</a> Call: 504-348-3500
6 Apr	<b>Super Science Saturday</b>	LA Children's Museum	<a href="mailto:tom.bergeon@upstreamexp.com">tom.bergeon@upstreamexp.com</a>
15-16 Apr	<b>13th Annual Louisiana Water Conference</b> See page 17 for more information	Dalton Woods Auditorium LSU • Baton Rouge, LA	<a href="https://easychair.org/conferences/?conf=lawater2019">https://easychair.org/conferences/?conf=lawater2019</a>
15 Apr	<b>CALL FOR PAPERS</b> Petroleum History Institute		Dr. William Brice <a href="mailto:wbrice@pitt.edu">wbrice@pitt.edu</a> Marilyn Black 814-677-3152 <a href="mailto:mblack@oilregion.org">mblack@oilregion.org</a>
16 Apr	<b>SIPES Annual Membership Drive Crawfish Boil</b> 11:30 am - 1:30 pm	The Harbor Bar and Grill Metairie, LA	Eric Broadbridge <a href="mailto:eric@northcoastoil.com">eric@northcoastoil.com</a> • 504-884-0049
17 Apr	<b>LSU LGS Louisiana Oil and Gas Symposium 2019</b> Presented by Louisiana Geological Survey Center for Energy Studies	Dalton Woods Auditorium LSU • Baton Rouge, LA	<a href="http://www.lsu.edu/lgs/conferences/laoilgas2019">www.lsu.edu/lgs/conferences/laoilgas2019</a>
3 May	<b>NOGS - PLANO - SPWLA</b> Golf Tournament	Bayou Oaks at City Park New Orleans, LA	Reservations: <a href="http://www.nogs.org">www.nogs.org</a> Email: <a href="mailto:admin@nogs.org">admin@nogs.org</a> Call: 504-348-3500
6 May	<b>NOGS Luncheon Presentation</b> Speaker: Dr. Brooks Ellwood Topic: LSU Campus Mound Excavations	Holiday Inn Superdome	Reservations: <a href="http://www.nogs.org">www.nogs.org</a> Email: <a href="mailto:admin@nogs.org">admin@nogs.org</a> Call: 504-348-3500
19-22 May	<b>AAPG 2019 Annual Convention &amp; Exhibition</b> Henry B. Gonzalez Convention Center	San Antonio, Texas	<a href="https://ace.aapg.org/2019">https://ace.aapg.org/2019</a>

*New Orleans Chapter of*  
**Society of Independent Professional Earth Scientists**  
*presents it's*  
**4th Annual Membership Drive Crawfish Boil**

Think you can't join?, think again....  
 You more than likely will fit one of these categories:  
 1) Full 2) Limited 3) Affiliate  
 Free to potential members to our SIPES New Orleans Chapter  
 This will be a lunch time party on a Tuesday in Metairie  
**Tuesday, April 16th, 2019**  
**11:30am to 1:30pm**

**Crawfish, Corn, Potatoes,  
 Beer & Softdrinks**

*Nice Weather - outside in the patio  
 Bad Weather - upstairs in party room*

**SIPES Members - no cost**  
 Potential SIPES member -free  
 Call for reservations  
 SIPES Member guests -  
 \$25/person



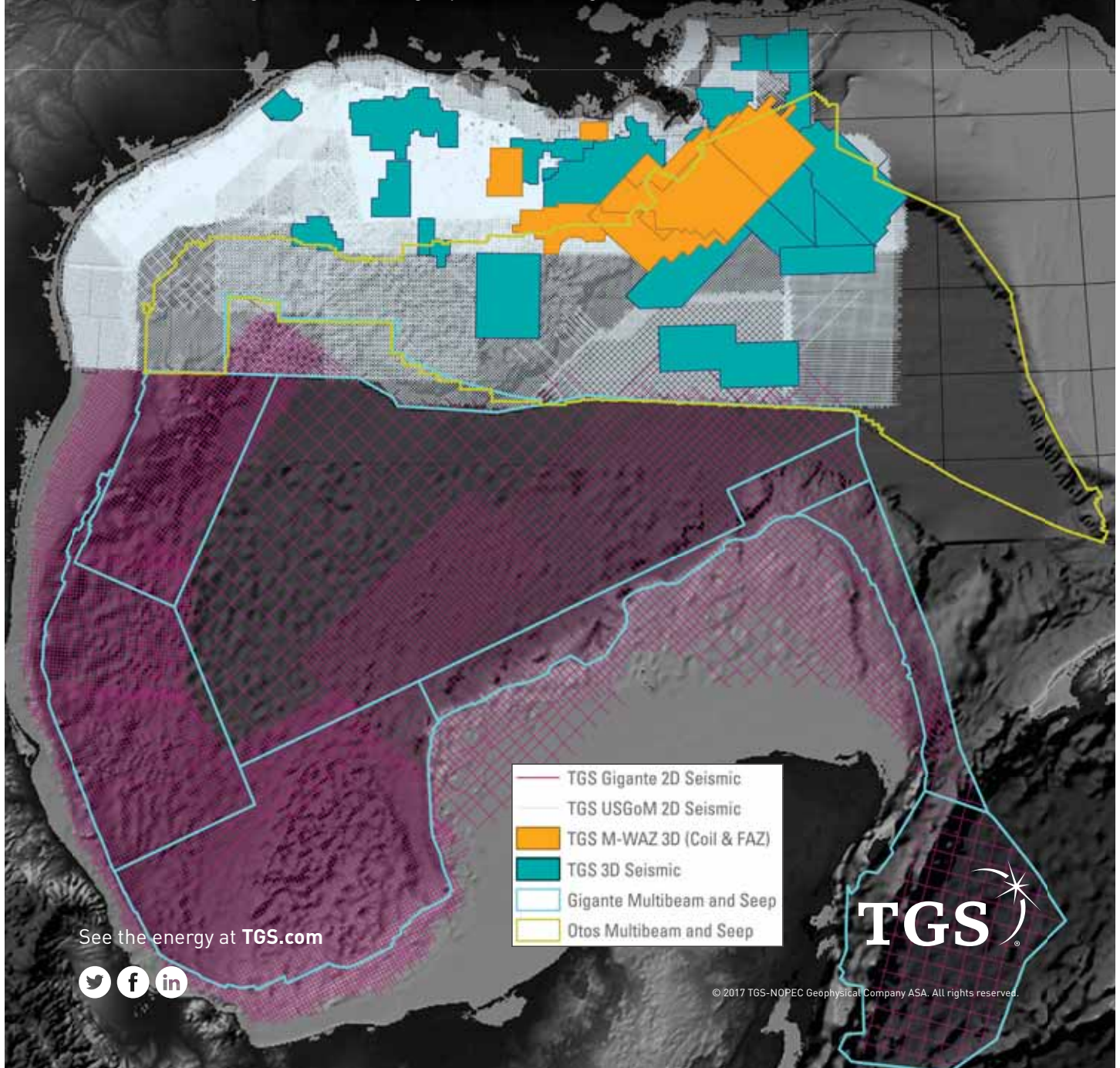
Check us out at: [www.sipesneworleans.org](http://www.sipesneworleans.org)  
 or at: [www.sipesorg](http://www.sipesorg)

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 Metairie, LA 70002  
 (2 blocks north of Andrea's  
 Restaurant)

If you are interested in joining  
 our Society and attending the  
 Crawfish Boil please contact:  
**Eric Broadbridge**  
[eric@northcoastoil.com](mailto:eric@northcoastoil.com)  
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# New Orleans Geological Auxiliary News

*"The objective of the Auxiliary is to promote fellowship among the wives of the members of the New Orleans Geological Society and to render assistance to NOGS upon request."*

## NOGA's Fun Day at the Races

On Thursday, February 9, members of the Geological Auxiliary and friends gathered at the New Orleans Fairgrounds for a "fun day at the races." Susie Baker was in charge of the details and saw to it that everyone enjoyed the day. The lunch menu consisted of a choice of The Exacta or The Cajun Trifecta which set the mood for the day. That was followed by cheesecake and everyone went home with a valentine box of chocolates. Who couldn't enjoy that?

The invitation was extended to NOGS members via email and Ed Picou and Brenda Reilly were in

attendance. We were happy to see Anna Cerniglia and R.T. Anna usually has a conflict with our Wednesday meetings, so we don't get to see her very often. Susie and Al rounded out the crowd with a large group of



their friends. I'm not sure if we had any really big winners for the day, but I do know everyone had a good time.

The Auxiliary will close out this year with a luncheon on May 8 at Metairie Country Club. Alma Dunlap and Trudy Corona will be handling the details for that day.

*Mary Walther*



### New Orleans Geological Auxiliary Membership Application

Name \_\_\_\_\_ Spouse's Name \_\_\_\_\_  
Address \_\_\_\_\_ Home Phone \_\_\_\_\_  
City, State, Zip \_\_\_\_\_ Cell Phone \_\_\_\_\_  
Spouse's Company \_\_\_\_\_ Email \_\_\_\_\_

**Dues: \$25 payable to New Orleans Geological Auxiliary**  
**Please mail to Mary Walther, 2421 Prancer St., New Orleans, LA 70131**

# 13th Annual Louisiana Water Conference

## April 15-16, 2019

Dear Colleagues:

Louisiana Geological Survey (LGS), LSU Agricultural Center (AgCenter), and Louisiana Water Resources Research Institute (LWRRRI) are co-hosting the 13th Annual Louisiana Water Conference, April 15-16, 2019 at Louisiana State University, Baton Rouge, Louisiana.

***You are cordially invited to submit titles and abstracts to the Water Conference.***

The Conference offers 1 PDH Ethics Lecture for Professional Geologists (PG) and Professional Engineers (PE) and certificates of Continuing Education Units (CEUs).

Conference announcement (LAWater 2019 CFP): <https://easychair.org/cfp/lawater2019>

Title/Abstract submission (LAWater 2019): <https://easychair.org/conferences/?conf=lawater2019>

### **Important Dates:**

**Title and Abstract Submission Open: Now**

**Registration Open: January 2, 2019**

**Title Due: February 15, 2019**

**Abstract Due: March 15, 2019**

**Early Registration Deadline: March 15, 2019**

**Conference Days: April 15-16, 2019**

**Ethics Lecture for Geoscientists and Engineers (1 PDH): TBA**

### **Conference Location:**

Dalton Woods Auditorium, Energy, Coast & Environmental Building,  
Louisiana State University • Baton Rouge, Louisiana

### **Program Committee:**

Douglas Carlson, Louisiana Geological Survey (co-chair)

Ryan Clark, The Water Institute of the Gulf

Stacia Davis Conger, LSU AgCenter, Red River Research Station

Mark Davis, Tulane University, Tulane Institute on Water Resources Law and Policy

Mary Gentry, Louisiana Department of Environmental Quality

Emad Habib, ULL, Department of Civil Engineering

Krishna Paudel, LSU AgCenter and LSU Agricultural Economics and Agribusiness (co-chair)

Frank Tsai, LSU Department of Civil and Environmental Engineering (co-chair)

Thomas Van Biersel, Louisiana Department of Natural Resources

Carol Wicks, LSU Department of Geology and Geophysics

Jun Xu, LSU School of Renewable Natural Resources

# South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

*By Carlo C. Christina and Kevin J. Trosclair*

During the month of January, the Louisiana Department of Conservation issued 12 permits to drill for oil and gas in South Louisiana. The most significant and interesting wells are reported below:

## NEW LOCATIONS

Rovig Minerals will drill its #1 Boudreaux, SN 251522, in **Southwest Lake Boeuf Field, (A)**, Lafourche Parish, in Sec. 114, 15S-17E. It will be drilled to a total depth of 12,750 feet, offsetting a recently completed gas well, the #1 Libby & Blouin, flowing 2729 MCFD and 122 BCPD.

In Lafourche Parish, **Lake Enfermer Field, (B)**, Interstate Explorations will drill the #1 Grandison Trust, SN 251523, to test Upper Miocene Sands, E-F, at a depth of 13012 feet, (12,000 feet tvd), located in Sec. 10, 20S-23E. It is also located 1 mile east of depleted gas wells in the field.

Also, in **Lake Enfermer Field**, Lafourche Parish, **(C)**, Interstate Explorations will drill its second well, the #1 Harrison, SN 251524, in Sec. 10, 20S-23E to a proposed depth of 14,512 feet, (14,000 feet tvd), to test Upper Miocene Sands, G-J. It is also located approximately 4,000 feet south of the #1 Grandison well, as reported above.

Rovig Minerals will also drill the #1 Peltier Farms, SN 251534, in **Lake Boeuf Field, (D)**, Lafourche Parish. It will be drilled in Sec. 116, 15S-18E to a depth of 14,467 feet, (13,780 feet tvd), to test ROB L sands. It is also located approximately 1 mile southwest of a producing well.

In St. Martin Parish, **Mystic Bayou Field, (E)**, WHITE OAK OPERATING will drill the #3 Williams-ALT, SN 251517, in Sec. 35, 13S-11E to a total depth of 17,500 feet to test the 16,700 Sand. It will be drilled one half mile north of the #2 Williams, an excellent gas well, which was completed flowing 6000 MCFD and 750 BCPD in July 2015. It has produced more than 4.7 billion cubic feet of gas and 160,000 barrels of condensate since that time.

## COMPLETIONS

Zachary Exploration has completed the #1 Adonis, SN 251332, as a gas well in **Lake Arthur Field, (F)**, Jefferson Davis Parish. The well was drilled to a total depth of 13,360 feet in

Sec. 17, 10S-4W, and completed as a gas well flowing 2194 MCFPD and 432 BCFPD through perforations 12,794 to 12,810 feet in the Hackberry sand.

In Lafourche Parish, **Southwest Lake Boeuf Field, (G)**, Rovig Minerals has completed its #1 Libby & Blouin, SN 251292, as a gas well in the McCulla Sand. It was located in Sec. 114, 15S-17E, and completed flowing 2729 MCFD and 122 BDPD through perforations 11,858 to 11,884, overall.

Premience Energy has completed the #1 Miller, SN 251179, in **West Tepetate Field, (H)**, Jefferson Davis Parish. It was completed flowing 1100 MCFD and 70 BCPD in the Homeseekers Sand, through perforations 9559 to 9569 feet. It was drilled in Sec. 38, 7S 3W.

## OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

*by Al Baker*

During **January 2019**, the BSEE approved **80** Gulf of Mexico drilling permits. **Twenty-seven** of these were for shelf wells, and **53** were for deepwater wells. Of the total number of permits, there were **10 new well permits**; **4** were issued on the **shelf** and **6** in **deepwater**.

The **4** shelf new well permits included **1** exploration well and **3** development wells. The exploration new well permit was given to **Byron Energy** for their **South Marsh Island 74 #D-14** well. One development new well permit was issued to **Fieldwood Energy** for their **Ship Shoal 169 #G-3** well. The remaining two development well permits were granted to **Arena Offshore** for their **Eugene Island 341 #A-20** well and their **South Timbalier 52 #CA-9** well.

The **6** deepwater new well permits were for **4** exploration wells and **2** development wells. The exploration well permits were awarded to **Anadarko Petroleum** for their **Mississippi Canyon 126 #8** well,



# Onshore & Offshore Activity Map for South Louisiana

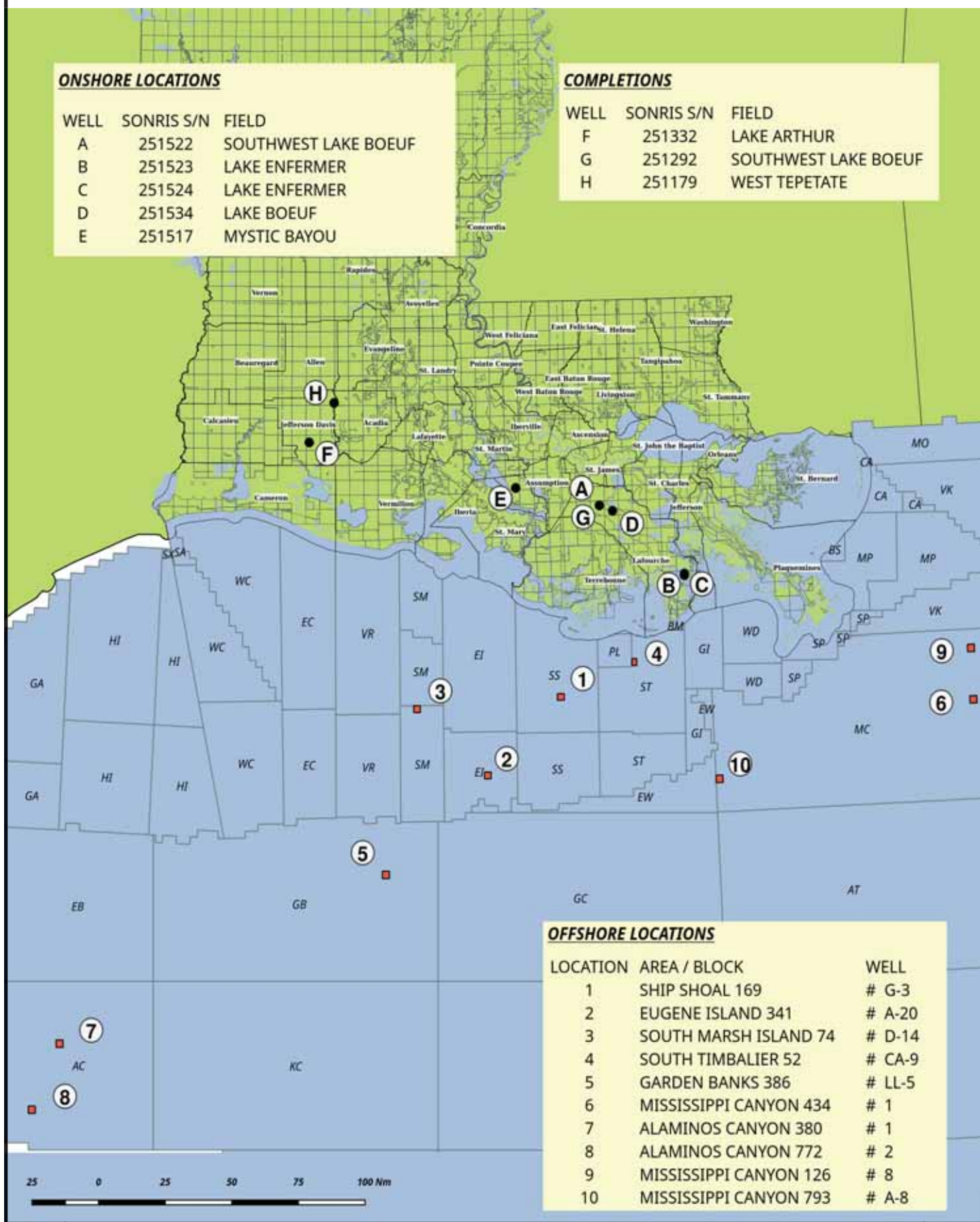
## MARCH 2019

### ONSHORE LOCATIONS

WELL	SONRIS S/N	FIELD
A	251522	SOUTHWEST LAKE BOEUF
B	251523	LAKE ENFERMER
C	251524	LAKE ENFERMER
D	251534	LAKE BOEUF
E	251517	MYSTIC BAYOU

### COMPLETIONS

WELL	SONRIS S/N	FIELD
F	251332	LAKE ARTHUR
G	251292	SOUTHWEST LAKE BOEUF
H	251179	WEST TEPETATE



### OFFSHORE LOCATIONS

LOCATION	AREA / BLOCK	WELL
1	SHIP SHOAL 169	# G-3
2	EUGENE ISLAND 341	# A-20
3	SOUTH MARSH ISLAND 74	# D-14
4	SOUTH TIMBALIER 52	# CA-9
5	GARDEN BANKS 386	# LL-5
6	MISSISSIPPI CANYON 434	# 1
7	ALAMINOS CANYON 380	# 1
8	ALAMINOS CANYON 772	# 2
9	MISSISSIPPI CANYON 126	# 8
10	MISSISSIPPI CANYON 793	# A-8

to **Chevron U.S.A.** for their **Mississippi Canyon 434 #1** well, and to **Shell Offshore** for their **Alaminos Canyon 380 #1** and **772 #2** wells. One development well permit was given to **Shell Gulf of Mexico** for their **Garden Banks 386 # LL-5** well. The other development well permit was issued to **Walter Oil & Gas** for their **Mississippi Canyon 793 #A-8** well.

On January 25th, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **72**, which is **1 less** than last month. The marketed rig supply consisted of **42** rigs, of which **33** were under contract. The marketed rig supply number was **1 less** than last month, and the contracted rig supply was **3 less** than the previous month. The marketed contracted versus total rig supply utilization rate stood at **58.3%**, and the marketed contracted versus marketed supply utilization rate stood at **78.6%**. By comparison, the January 2018 total fleet utilization rate stood at 36.6% (**versus 45.8% today**) with 34 out of the 93 rigs under contract.

As of January 25th, **BakerHughes** indicated that there were **20** active mobile offshore rigs in the Gulf of Mexico, which is **60.6%** of the rigs under contract mentioned above.

This active rig number is **4 less** than as reported last month. Of the 20 rigs, **4** are located on the **shelf**, and **16** are situated in **deepwater**. At the same time last year, there were 17 mobile offshore rigs operating in the Gulf of Mexico suggesting a **17.6% increase**.

As of January 25th, the **BakerHughes** total U.S. rig count stood at **1059** rigs, which are **24 fewer** rigs than reported at the end of December 2018. Of the 1059 rigs, **862 (81.4%)** are **oil rigs** and **197 (18.6%)** are **gas rigs**. A year ago, there were 947 rigs working in the U.S. Thus, the current rig figure represents an **11.8% increase** in rigs. **Texas** had the largest number of rigs with **517**, which is slightly under half (48.8%) of the total number of rigs in the U. S. **Louisiana** had a total of **63** rigs, **down 4** rigs from last month.

On January 14th, **LLOG Exploration** reported a deepwater discovery on its **Nearly Headless Nick Prospect** in **Mississippi Canyon Block 387**. The well was drilled approximately 150 miles southeast of New Orleans in **more than 6,500 feet of water**. The well found high-quality, **oil-bearing Miocene sandstone reservoirs**. It will be tied back to the LLOG-operated Delta House facility in Mississippi Canyon Block 254.

## NOGS FEBRUARY LUNCHEON MEETING

**"Lower Paleozoic Reservoirs in the Delaware Basin: Gas and Liquids Distribution"**

**Speaker: James Keay**



*Left to right: Chris McLindon, James Keay - Luncheon Speaker, and Alex Fick*

# NOGS First Yucatan Field Trip - February 1-5, 1962

It should be noted that the original 1962 guide book was revised and sections on hydrology and other geologic aspects added for additional field trips in 1974, 1976, 1978 and 1985. All five editions are digitized and available on CD-ROM in the AAPG Bookstore.



"Diversity" geophysical conditions in basins are restricted to their volume

geology of Louisiana. His authority is first obvious. He said (Dr. Conrad G. May was president of meeting in 1911 in New

graduates, and other university staff were not permitted.

was killed in 1962 by the same person, who is thought to be the same person who killed the man in Florida, where captured birds are no longer used for research.

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The previously cited review is a study

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Fig. 2. Phase II: a psychological visit with the wife. See text explanation.

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Shan, 1830.

...and the ...

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DOI: 10.1037/0893-3200.11.4.475

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<sup>1</sup> Made with the aid of scientific devices.

examined by researchers from the University of

Source: *Dixie Roto Magazine*, *The Times-Picayune* - published June 8, 1962

# Daylight Saving Time

Contrary to popular belief, American farmers did not lobby for daylight saving to have more time to work in the fields; in fact, the agriculture industry was deeply opposed to the time switch when it was first implemented on March 31, 1918, as a wartime measure. The sun, not the clock, dictated farmers' schedules, so daylight saving was very disruptive. Farmers had to wait an extra hour for dew to evaporate to harvest hay, hired hands worked less since they still left at the same time for dinner and cows weren't ready to be milked an hour earlier to meet shipping schedules. Agrarian interests led the fight for the 1919 repeal of national daylight saving time, which passed after Congress voted to override President Woodrow Wilson's veto. Rather than rural interests, it has been urban entities such as retail outlets and recreational businesses that have championed daylight saving over the decades.

For decades, daylight saving in the United States was a confounding patchwork of local practices. After the national repeal in 1919, some states and cities, including New York City and Chicago, continued to shift their clocks. National daylight saving time returned during World War II, but after its repeal three weeks after war's end the confusing hodgepodge resumed. States and localities could start and end daylight saving whenever they pleased, a system that Time magazine (an aptly named source) described in 1963 as "a chaos of clocks." In 1965 there were 23 different pairs of start and end dates in Iowa alone, and St. Paul, Minnesota, even began daylight saving two weeks before its twin city, Minneapolis. Passengers on a 35-mile bus ride

from Steubenville, Ohio, to Moundsville, West Virginia, passed through seven time changes. Order finally came in 1966 with the enactment of the Uniform Time Act, which standardized daylight saving time from the last Sunday in April to the last Sunday in October, although states had the option of remaining on standard time year-round.

Not everyone in the United States springs forward and falls back. Hawaii and Arizona—with the exception of the state's Navajo Nation—do not observe daylight saving time, and the U.S. territories of American Samoa, Guam, Puerto Rico, the Virgin Islands and the Northern Mariana Islands also remain on standard time year-round. Some Amish communities also choose not to participate in daylight saving time. (Around the world, only about one-quarter of the world's population, in approximately 70 countries, observe daylight saving. Since their daylight hours don't vary much from season to season, countries closer to the equator have little need to deviate from standard time.)

*Reprinted from <https://www.history.com/news/8-things-you-may-not-know-about-daylight-saving-time>.*





Contact NOGS at:  
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## 2019 ADVERTISING RATES

The New Orleans Geological Society was formed in 1941, with an initial membership of only 55. It has always been an active professional society and presently has a membership of 500.

### AD SIZE

### 2015 RATE

### NEW 2019 RATE!

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Eighth Page (3.75"x2.5")	\$600	\$300
Twelfth Page (3.75"x1.65")	\$375	\$188
Note Size (3.75"x.75")	\$120	\$60

### PREMIUM LOCATIONS

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Opposite Oral Abstract.....	+20%
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