

NOGS LOG

AUGUST 2017

Volume 58, Number 2

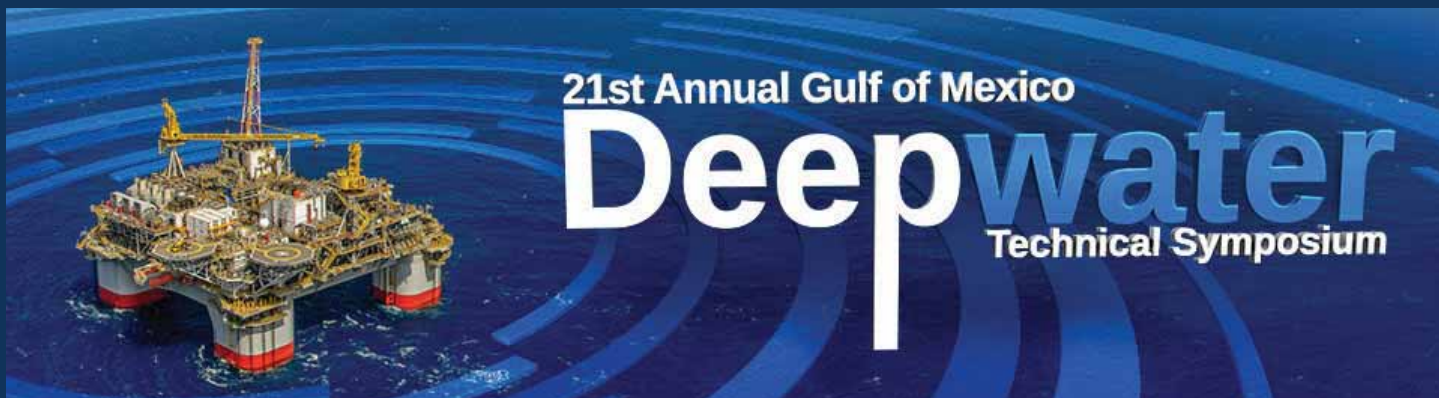


AUGUST 7 - NOGS LUNCHEON

**Presentation: Building the Mississippi River Delta with Silt and Clay:
The Texture and Sediment Retention Efficiency of a Crevasse Splay**

Guest Speaker: Christopher Esposito

The Water Institute of the Gulf • Baton Rouge, Louisiana



GEOSCIENCE OPENING SEMINAR

August 21, 2017

"Exploring the Deep Water Gulf of Mexico Petroleum Systems"

JOHN DRIBUS

*Global Exploration Advisor
Schlumberger*



To place the exploration geology of the deep water petroleum systems of the Gulf of Mexico into proper global context, this one day short course begins with a look at the transformation of global deep water exploration during the recent "lower and longer" oil price crash. Exploration activities have mostly switched emphasis from frontier exploration in untested or sparsely drilled basins to areas of known "commercial possible" discovery corridors, and to backyard exploration for deeper pools or for adjacent structures or stratigraphic traps within tieback range.

Then we will look at the three key northern Gulf of Mexico conventional deep water plays in the Jurassic (Norphlet Aeolian sandstone), Eocene/ Paleocene/ Oligocene (Whopper, Wilcox, and Frio Formations), and subsalt Miocene/ Pliocene. Our focus will begin with a sequence stratigraphic perspective that looks at the sediments expected to be deposited in the slope and deep water basin plain during High Stands such as condensed section marine mudstones, Falling Stage including mud-rich mass transport deposits), and Low Stand depositional sequences such as basin floor fan and channel levee deposits.

Then we will discuss the critical factors in the deep water Gulf of Mexico Petroleum Systems beginning with forming the basin (global evolution and sources rocks), subsequent filling of the basin (carbonate and clastic reservoirs and seals), and migration through the overburden to the conventional reservoirs. This petroleum systems section of the class will conclude with a look at the deformation of the basin to create both structural and stratigraphic traps for hydrocarbon accumulation.

We will then turn to some interesting important auxiliary issues such as petrophysical considerations of pressure and diagenesis, and then review some aspects of the "Funny Looking Things" (FLT's and DHI's) that characterize many of the shallow prospects in the area, and then examine some of the challenges of drilling for the petroleum prize through the geohazards at the sea floor and around salt that are often in the way of the petroleum accumulations we seek.

Time permitting, we will conclude with a discussion of how we can utilize seismic data to help understand critical geologic risks of the turbidite play.

www.deepwaternola.org



Published monthly by the New Orleans Geological Society. This issue was sent to press on August 30, 2017.

Interested in contributing to the NOGS LOG?

Please submit items by the 1st Friday of the month to nogseditor@gmail.com. Advertising requests should contact the NOGS office at info@nogs.org.

IN THIS ISSUE

Regular Features:

On The Cover.....	3
From the Editor.....	3
From the President.....	5
NOGS Officers / Contacts	6
Upcoming Events & Activities	7
NOGS Luncheon Presentation.....	8
Calendar of Events: August - September	10
NOGA News.....	12
Drill Bits	14
NOGS Memorial Foundation & FONO Fund.....	21

Special Features:

Geoscience Opening Seminar	2
New 2017 Ad Rates!	4
AGU Call for Abstracts	5
NOGS on FaceBook!	10
GCSSEPM Conference Announcement	12
NOGS Award Luncheon	13
Recent Postings on Our Website	17
Field Geology Photo Submissions	18
AADE Fin Feather Fur Food Festival	19
GCAGS-GCSSEPM 2017 Convention.....	19
2017 Deepwater Technical Symposium.....	23

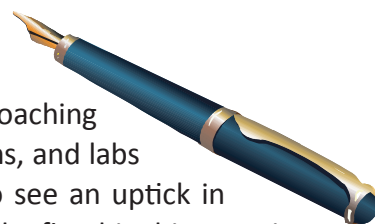
on the cover

Cover Photo Submitted by Arthur Christensen

Paparoa National Park — Punakaiki, New Zealand

“This month’s cover photo comes from Paparoa National Park near Punakaiki on the South Island of New Zealand. The park is famous for the Pancake Rocks, Oligocene-aged carbonates notable for their dramatic stylobedding. The distinctive appearance comes from the alternating layers of limestone and mudstone where the less resistant clay minerals undergo preferential weathering thus creating the appearance of limestone “pancakes” stacked on top one another. Arthur Christensen took this photo while on a trip to New Zealand with his grandson Cade. Arthur notes that there are now convenient, non-stop flights from Houston to New Zealand and that he is available with travel tips.”

From the Editor



Though the south Louisiana weather won’t reflect it anytime soon, we’re fast approaching the end of summer. As our students begin the trek back to their dorms, classrooms, and labs for the new academic year (with varying degrees of enthusiasm), you’ll begin to see an uptick in NOGS events as societies across the region emerge from a partial summer hiatus. The first big thing coming up for the NOGS community is the Deepwater Technical Symposium and Geoscience Seminar in late August. And as you start planning for football season (and arguing about whether or not Ole Miss will be able to recruit Les Miles), I encourage you to keep some important volunteer opportunities in mind. Please see the calendar on page 10 for more details on the Energy Day at the Louisiana Children’s Museum and the STEM Fest event at the Pelicans/Saints Training Facility. Outreach to students is a central component of NOGS’s mission, and events like these represent an important opportunity for NOGS to engage with the community while promoting the importance of scientific education for all.

Laura

Laura Sorey, Editor



Contact:
Annette Hudson
info@nogs.org

2017 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 2017 RATE!
Full Page (7.5"x10")	\$3500	\$1750
Half Page (3.75"x10" or 7.5"x5")	\$1850	\$925
Quarter Page (3.75"x5" or 7.5"x2.5")	\$1000	\$500
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 President's Page.....	+20%
Opposite Oral Abstract.....	+20%
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Our mission is to protect the public health, safety, and welfare and to guard the state's natural resources with regard to environmental and civil projects where a geoscientific review and evaluation is required in the making of recommendations of any geoscientific components of said projects.



FROM THE PRESIDENT CHRIS MCLINDON

This is a great time to be a member of NOGS. This is a venerated institution that since 1941 has played and continues to play a significant role in making the earth sciences accessible to the rest of the community. In May, the Louisiana Children's Museum broke ground on its brand new building in City Park. The Children's Museum of St. Tammany is just behind them in development. NOGS is an important supporter of these efforts, but it is not simply financial support. NOGS has taken on a role as a "content provider." The very fact that the museum will feature a stream table is a testament to the work of Tom Bergeon and the support of the entire NOGS organization. There is no better way to support the advancement of earth sciences than to inspire young people to pursue an interest in the subject.

Through the active involvement of its membership, NOGS also supports the science fair process in the local schools, STEM fairs, and a gem and mineral show. Several of our members

are university professors, but the organization has also collectively supported university research projects over the past two years. NOGS was a co-sponsor of the Coastal Geology Symposium put on by the Louisiana Geological Society on July 26. I was honored to be one of the speakers along with NOGS members Liz McDade, Nancye Dawers, and John Lopez. More importantly, the Symposium featured poster sessions by four graduate students from UNO, Tulane, and ULL. NOGS arranged for access to the 3-D surveys for each of these students, which they used to study the causes of coastal wetlands loss. Our monthly luncheons provide an important forum for the discussion of current earth science. This month, Chris Esposito will be discussing the essentials of sediment retention in the delta environment - perhaps one of the more important topics that a New Orleanian could be discussing.

The 2016 Report "Science Literacy – Concepts, Contexts and Consequences" from The National Academy of Sciences, Engineering, and Medicine made community participation in scientific research a centerpiece of the report. In simplest terms, the report found that the best way to advance science literacy is through community engagement in science and scientific research. The activities of NOGS and our membership are at the forefront of this type of community engagement. This is something of which we should all be proud and which we should all work to continue to advance.

Chris McLindon

AGU Call for Abstracts

Chris McLindon, Dr. Nancye Dawers (Tulane), Dr. Mark Kulp (UNO), and Rui Zhang (ULL) will serve as conveners for a technical session on Mississippi River Delta Plain geology at the upcoming American Geophysical Union (AGU) Fall Meeting this December in New Orleans.

The session is titled "Assessing the impacts of subsurface geology on surface processes on the Mississippi River Delta Plain and other deltaic passive margin settings using energy industry seismic data" and is currently accepting abstracts from potential presenters.

Abstract submissions are due August 2nd.

For more information, please review the session info at
<https://agu.confex.com/agu/fm17/preliminaryview.cgi/Session27399>





NOGS Office

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Correspondence and all luncheon reservations should be sent to the above address.

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August 7 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

***Building the Mississippi River Delta with Silt and Clay:
The Texture and Sediment Retention Efficiency of a Crevasse Splay***

Guest Speaker:

Christopher Esposito

The Water Institute of the Gulf • Baton Rouge, Louisiana

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

August 16-17

NAPE Summer

George R. Brown Convention Center • Houston, Texas
<http://napeexpo.com/shows/about-the-show/houston>

September 11

NOGS Luncheon

Holiday Inn Downtown Superdome • New Orleans, Louisiana
For more info: annette@nogs.org or 504-561-8980

August 21 & August 22-23

Geoscience Opening Seminar • Deepwater Technical Symposium

Downtown Marriott at the Convention Center • New Orleans, LA
<http://www.deepwatermola.org>

September 16

Louisiana Children's Museum Energy Day

Louisiana Children's Museum • New Orleans, LA
For more info: tom.bergeon@upstreamexp.com or 504-832-3772

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Continued from previous page

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August 7 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

Building the Mississippi River Delta with Silt and Clay: The Texture and Sediment Retention Efficiency of a Crevasse Splay

Presented by

Christopher Esposito

The Water Institute of the Gulf • Baton Rouge, Louisiana

ABSTRACT

Many of the world's deltas – home to major population centers – are rapidly degrading due to reduced sediment supply, making these systems less resilient to increasing rates of relative sea-level rise. The Mississippi Delta faces some of the highest rates of wetland loss in the world. As a result, multi-billion dollar plans for coastal restoration by means of river diversions are currently nearing implementation. River diversions aim to bring sediment back to the presently sediment-starved delta plain. Within this context, sediment retention efficiency (SRE) is a critical parameter because it dictates the effectiveness of river diversions.

Several recent studies have focused on land building along the open coast, showing SREs ranging from 5 to 30%. Here we measure the SRE of a large relict crevasse splay in an inland, vegetated setting that serves as an appropriate model for river diversions. By comparing the mass fraction of sand in the splay deposit to the estimated sand fraction that entered it during its life cycle we find that this mud-dominated sediment body has an SRE of $\geq 75\%$, i.e., dramatically higher than its counterparts on the open coast. Our results show that transport pathways for mud are critical for delta evolution and that SRE is highly variable across a delta. We conclude that sediment diversions located in settings that are currently still vegetated are likely to be the most effective in mitigating land loss and providing long-term sustainability.



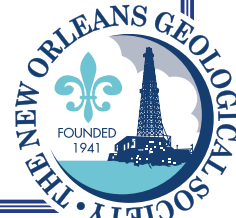
BIOGRAPHY

Christopher Esposito received a B.S. in Mathematics and Physical Oceanography from Rutgers, The State University of New Jersey in 2003, an M.S. in Earth and Environmental Sciences from the University of New Orleans in 2011, and a Ph.D. from Tulane University in 2017. He is currently a Research Scientist at The Water Institute of the Gulf.

**THE AUGUST LUNCHEON RESERVATION
DEADLINE IS AUGUST 4.
CONTACT THE NOGS OFFICE**

"And Looking Ahead . . ."

The next luncheon will be held on September 11th. Our guest speaker will be announced later this month. Contact the NOGS office at 504-561-8980 or use the PayPal link at www.nogs.org to make your reservation.





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CALENDAR OF EVENTS: AUGUST — SEPTEMBER 2017

If you know of upcoming seminars or academic events that may be of interest to our members, please email the event details to Laura Sorey at nogseditor@gmail.com to be included in the monthly calendar.

2017	EVENT	LOCATION	CONTACT / INFO
2 Aug	Final Submission Deadline for AGU 2017 Abstracts		https://fallmeeting.agu.org/2017/abstract-submissions/
7 Aug	NOGS Luncheon Speaker: Christopher Esposito "Building the Mississippi River Delta with Silt and Clay: The Texture and Sediment Retention Efficiency of a Crevasse Splay"	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
11 Aug	BRGS Luncheon - Topic TBA	Mike Anderson's 1031 W Lee Dr Baton Rouge	lisapultz@cox.net
16 Aug	UNO Classes Begin		
16-17 Aug	NAPE Summer	Houston, Texas	http://napeexpo.com/shows/about-the-show/houston
21 Aug	LSU Classes Begin		
21 Aug	Geoscience Opening Seminar for the 21st Annual Deepwater Technical Symposium Speaker: John Dribus, Schlumberger "Exploring the Deep Water Gulf of Mexico Petroleum Systems"	New Orleans Marriott Convention Center	http://www.deepwaternola.org
22-23 Aug	21st Annual Deepwater Technical Symposium	New Orleans Marriott Convention Center	http://www.deepwaternola.org
28 Aug	Tulane Classes Begin		
4 Sep	Labor Day		
11 Sep	NOGS Luncheon Speaker: TBA	Holiday Inn Superdome	annette@nogs.org or 504-561-8980
16 Sep	Louisiana Children's Museum Energy Day	Louisiana Children's Museum	tom.bergeon@upstreamexp.com or 504-832-3772
30 Sep	STEM FEST Event	Saints and Pelicans' Training Facility	tom.bergeon@upstreamexp.com or 504-832-3772



Like us on Facebook!

The new page for the New Orleans Geological Society is a great way to connect with other geologists and keep up to date with the latest NOGS events, videos, updates, and fun geology tidbits.

Find us at <https://www.facebook.com/nogs.org/>



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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."

An Exciting Year for NOGA!

The New Orleans Geological Auxiliary has an exciting year planned for 2017-2018. We will begin our year with a luncheon at Camille Yeldell's lovely home on September 13. Prospective members are invited to this luncheon as guests of the Auxiliary. Please contact me at Margigras7@aol.com if you need further information.

Early in the fall we look forward to the NOGS Kickoff Party, and the Auxiliary will gather for a luncheon at the Heritage Grill on November 8. We will assist with the NOGS Christmas Party which will be held in December at the home of Penny and Jack Bryant.

In February, we will dine at the New Orleans Lakefront Airport (spouses and guests are most welcome). We are in the process of securing a speaker for the February event. Jean Jones has graciously offered to host our Spring Soiree on April 7.

The final function of the year will be an installation luncheon on May 9 at the New Orleans Country Club. We invite all interested spouses to join us and become part of the Auxiliary.

Margie Conatser, President

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 Judy Lemarié, Treasurer, #2 Yosemite Dr., New Orleans, LA 70131



Sequence Stratigraphy: The Future Defined

**36th Annual GCSSEPM Foundation
Perkins-Rosen Research Conference**

**Marathon Conference Center, Houston TX
December 4-5, 2017**

Online Registration At: <https://www.sepm.org/Forms.aspx?pageID=457>

The conference aims to help define the future of sequence stratigraphy as it is applied in the petroleum industry. Does it still add quantifiable value? If so, how? If not, why not? This truly global-in-scope meeting addresses these questions as they apply to siliciclastic, carbonate and shale settings.

Topical sessions include:

- Property prediction in carbonate, mixed, and siliciclastic settings
- Source-to-sink
- Global forcing vs. autocyclicity
- Sequence biostratigraphy
- Sequence stratigraphic analyses of resource plays
- Innovative methods for undertaking sequence stratigraphic analyses
- Case studies: successes and failures

Partial list of presenters:

Peter Burgess, Peter Clift, Gregor Eberli, Cedric John, Charlie Kerans, Ole Martinsen, Jack Neal, Henry Posamentier, Rick Sarg, Steve Sonnenberg.

Or Visit Us At www.gcssepm.org

NOGS Awards Luncheon

Along with our July 10 guest speaker Rick McCulloh, the NOGS luncheon featured the presentation of annual awards to various NOGS members and supporters who have given distinguished service this past year. After recognizing members of the 2016-2017 Board of Directors, former President Al Melillo presented **Tom Klekamp, Mike Merritt, Jennifer Connolly, and Louis Lemarie** with the **President's Award**. **Tim Klibert** accepted the **Corporate Citizenship Award** on behalf of **Diversified Well Logging**. **Chuck Holman** was honored with an **NOGS Honorary Lifetime Membership**, and **Laura Sorey** received the **Edward B. Picou Outstanding Service Award**.



Award recipient **Dave Cope** with Al Melillo



Al Melillo with award recipient **Tim Klibert**



NOGS Student Members



Award recipient **Chuck Holman** with Al Melillo



Award recipient **Margaret McKinney** with Al Melillo



Award recipient **Tom Klekamp** with Al Melillo

South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Kevin J. Trosclair and Carlo C. Christina

The Baker-Hughes United States rig count for the week of June 30 was 940 rigs, up 32 rigs from the prior month. Rig activity in the U.S. has steadily increased over the past 12 months climbing from a low of 404 rigs in May 2016. The Louisiana rig count (not including the OCS) averaged 44 rigs for the month of June. This is an increase from 43 rigs the prior month.

North Louisiana Rigs:	39
South Louisiana Rigs:	5
Land	4
Inland Waters	1

The Office of Conservation, Lafayette District, Onshore Area, issued 15 permits to drill during the month of June. New locations of interest are reported below:

NEW LOCATIONS

In Iberville Parish, **Berry Lake Field, (A)**, Hise Oil Company will drill the #1 E R WIN ET AL, SN 250307, in Sec. 27, 10S-10E, to test Mid Miocene and Upper Oligocene sands at a depth of **11,645 feet, TVD 11,050 feet**. The well is located approximately 1 mile north of the discovery well for Berry Lake Field, the PetroQuest #1 EEX, which was completed through perforations **13,400 to 13,445 feet, overall**, in the CIB HAZ 2 Sand. The discovery well produced for 12 years with cumulative production of 723,215 barrels of oil and 2.61 billion cubic feet of gas. The confirmation well was drilled 3200 feet south of the discovery and completed through perforations 13868 to 13978, but produced less than 2 months. The third well was drilled 1500 feet west of the discovery well but was plugged and abandoned at a depth of 13,230 feet.

A review of the electric log of the discovery well indicates several zones of interest between 10,900 feet and 11,200 feet. Apparently, Hise will evaluate these sands.

Yuma E & P will drill a rank **Wildcat, (B)**, in Livingston Parish to test Lower Tuscaloosa sands at a depth of 15,098 feet. The #1-14 Weyerhaeuser, SN 250327, will be drilled in Sec. 14, 5S-5E, located **2½ miles southeast** of nearest production, the #1-9 Weyerhaeuser which was completed as an oil well flowing 450 barrels of oil a day in the Lower Tuscaloosa Sand. The well was completed

through perforations 14,614 to 14,630 feet in June 2012, and was placed on production in November 2012. It produced for 3 years with cumulative production of 13,818 barrels of oil.

In Plaquemines Parish, **Bay Batiste Field, (C)**, Wapiti Operators will drill the #1 SL 21675, SN 250292, in Sec. 16, 19S-26E, to a proposed total depth of 15,890 feet. The well will be drilled on the east flank of production, offsetting an oil well which was completed in August 2008 and is currently producing. The proposed location will be drilled on State Lease 21675 which was acquired by Wapiti in July 2016, interestingly, after observing production of the offset well for 8 years.

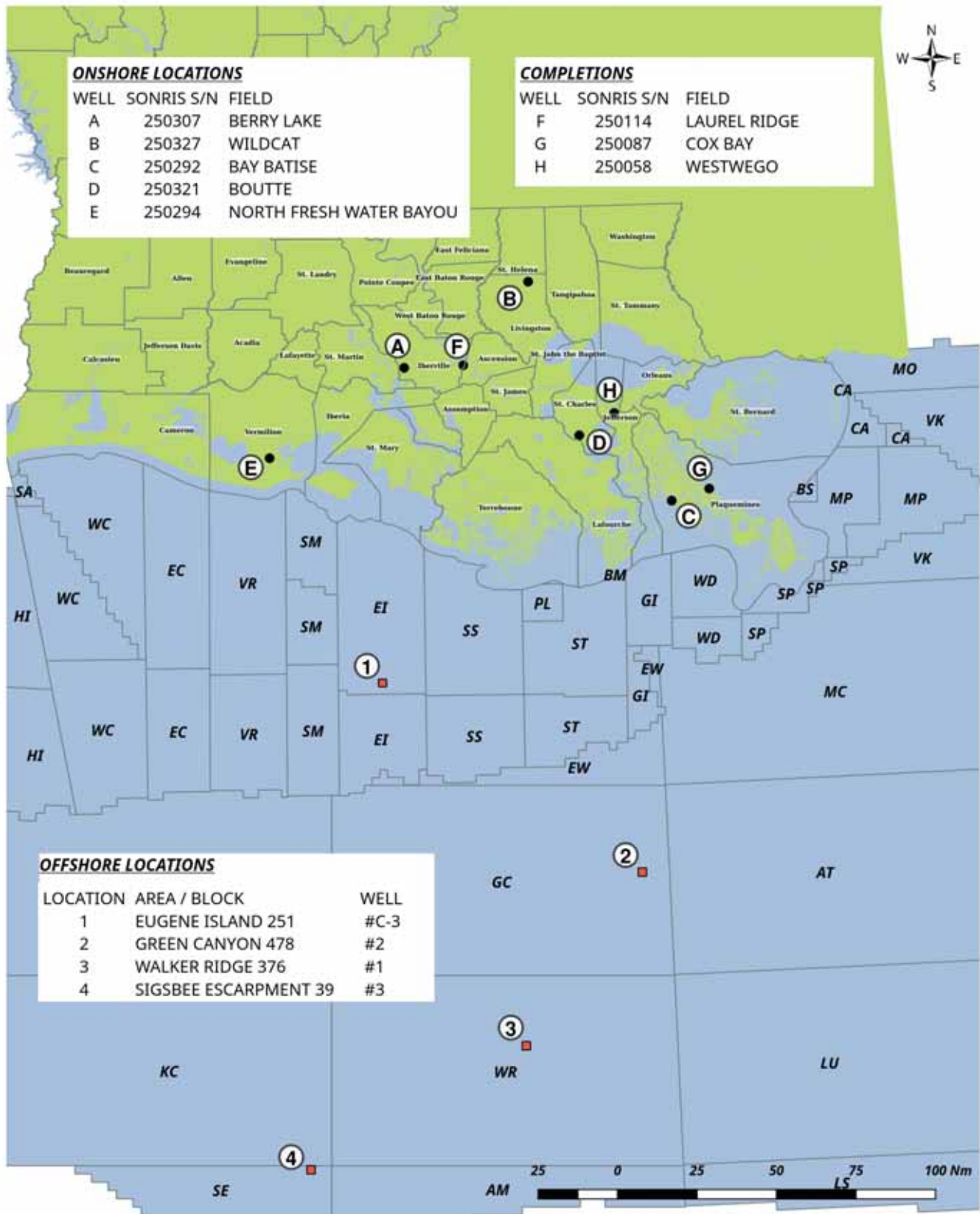
LLOX, LLC, is drilling its #1 Simoneaux Family, SN 250321, below 5500 feet in **Boutte Field, (D)**, Saint Charles Parish. It will be drilled in Sec. 1, 15S-20E to a proposed depth of 13,200 feet, (TVD 12,000 feet), to test Cib op sands.

Although the well is permitted in Boutte Field, it is located 2 miles southwest of production in the field, and is also located 1 mile north of production in Bayou Des Allemands Field.

In Vermilion Parish, **North Fresh Water Bayou Field, (E)**, Hilcorp is drilling the # 1 Exxon Mobil, SN 250294, below 14,000 in Sec. 34, 15S-2E. It will be drilled to a proposed total depth of 14,980 feet, located 1 mile north of production.



Onshore & Offshore Activity Map for South Louisiana AUGUST 2017



COMPLETIONS

Ponderosa Oil & Gas has completed its #1 Claiborne Plantation, SN 250114, in **Laurel Ridge Field, (F)**, Iberville Parish. The well was drilled to a total depth of 10,670 feet and completed through perforations 10,029 to 10,033 feet, flowing 40 BOPD and 120 MCFG.

In Plaquemines Parish, **Cox Bay Field, (G)**, Forza Operating Company has drilled its SL 1794, SN 250087, in Sec. 17, 18S-16E. It was drilled to a total depth of 11,316 feet where 5½ inch casing was set at total depth. It is currently waiting on a completion rig.

Grand Operating Inc. has drilled the #1 CIB O RB SUA;MARRERO LAND, SN 250058, in **Westwego Field, (H)**, in Sec. 24, 13S-23E. It was drilled to a total depth of 11,223 feet. Previously, protection casing had been set at 10,404 feet. The rig was released and the well is classified as status 31, a "shut-in dry hole-future utility."

OFFSHORE GULF OF MEXICO

SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **June 2017**, the **BOEM** approved **75** Gulf of Mexico drilling permits. Of these, **17** were for shelf wells, and **58** were for deepwater wells. Of the total number of permits, there were **4 new well permits**. **Three** permits were issued in **deepwater**, and **one** permit was awarded on the **shelf**.

The one new well permit on the shelf was for a **development well**; it was issued to **Arena Offshore** for their **Eugene Island 251 #C-3** well.

The three deepwater new well permits were for **exploration wells**. One permit was issued to **LLOG Exploration Offshore** for their **Green Canyon 478 #2** well. Another permit was granted to **Shell Offshore** for their **Walker Ridge 376 #1** well. Lastly, **Anadarko Petroleum** obtained a permit to drill their **Sigsbee Escarpment 39 #3** well.

On June 30th, **IHS-Petrodata** reported that the Gulf of Mexico mobile offshore rig supply stood at **95**, which is **1** more than last month. The marketed rig supply consisted of **52** rigs, of which **33** were under contract. The marketed rig supply number increased by **1** and the contracted rig supply numbers each

decreased by **2** compared to last month. The marketed contracted versus total rig supply utilization rate is **34.7%**, whereas the marketed contracted versus marketed supply utilization rate stands at **63.5%**. By comparison, the June 2016 total fleet utilization rate stood at 49.1% (versus 54.7% today) with 54 out of the 110 rigs under contract

As of June 30th, **BakerHughes** indicated that there were **21** active mobile offshore rigs in the Gulf of Mexico, which is **63.6%** of the rigs under contract mentioned above. This active rigs number is **2** less than reported last month. Of the 21 rigs, **5** are located on the **shelf** and **16** are situated in **deepwater**.

As of June 30th, the **BakerHughes** total U.S. rig count stood at **940** rigs **down 48.7%** from the **September 26, 2014 high of 1931** rigs, but up **536** rigs or **133%** from the **May 20, 2016 low of 404** rigs. Of the current 940 rigs, **756** are **oil rigs** and **184** are **gas rigs**. Texas has the largest number of rigs with 461, which is slightly less than half (49%) of the total number of rigs in the U.S.

On June 20th, the **BOEM** announced the final results on **OCS Sale 247** held in March 2017. They accepted **153** of the **163** bids made at the sale. One shelf bid and nine deepwater bids were rejected.

The next federal offshore lease sale, **OCS Sale 249**, is scheduled for **August 16th** in New Orleans. It will be the first of a new area-wide sale program that includes all the available tracts in the Western, Central and Eastern portions of the Gulf. The royalty rate for tracts in less than 200 meters water depth has been reduced from 18.75% to 12.5%. This is an apparent attempt by the BOEM to stimulate bidding on shelf tracts, which has been rather lackluster in recent past lease sales.

Did You Know...

On August 1, 1815, John Cary published William Smith's *"A Delineation of the Strata of England and Wales, with part of Scotland; exhibiting the collieries and mines, the marshes and fen lands originally overflowed by the sea, and the varieties of soil according to the variations in the substrata, illustrated by the most descriptive names."* Aside from being notable for the sheer length of its title, this was the first national-scale geological map ever published.

Check out these recent postings on our website:

On Homepage Calendar:

Deepwater Technical Symposium – Opening Geoscience Seminar

On Monday, August 21st, John Dribus will present “Exploring the Deep Water Gulf of Mexico Petroleum Systems” Read his detailed abstract on page 2 of this issue. Registration opens soon.

Check with www.deepwaternola.org for more information.

On LINKS page under Presentations of Interest:

When Earth Attacks! - A Geologist's Retrospective - Presented by The Honorable Michael L. Merritt, Commissioner, SLFPA-West, November 2, 2015 (PDF)

When Earth Attacks! - A Geologist's Retrospective - Merritt's speaker notes (PDF) [As a suggestion to the viewer, open both PDFs and toggle between them. A second option is to print the speaker notes to use with the slides.] The presentation chronicles the aftermath of Hurricane Katrina and its effects on the New Orleans metropolitan area and the push to get stronger flood protection.

NEW in the Galleries:

View the new photos posted of the Louisiana Children's Museum Groundbreaking on May 20th.

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Submit Your Field Photos!

To many people, a summer challenge involves struggling to remember whether you packed an extra swimsuit. To many geologists, a summer challenge often involves trying to access an outcrop of interest without breaking an ankle. Whether they're students, professionals, or just inquisitive road trip travelers, many NOGS members have already undertaken ventures into field sites across the country this summer, as shown by the pictures below. If you'd like to submit some of your field pictures for publication in the *NOGS LOG*, please email them to nogseditor@gmail.com. Pictures by Tom Bergeon, Arthur Christensen, and Dana Smith.



Mono Lake, CA



Olympic National Park, WA



Punakaiki, New Zealand



Wonderland Trail
Mount Rainier National Park



Wonderland Trail, Mount Rainier National Park



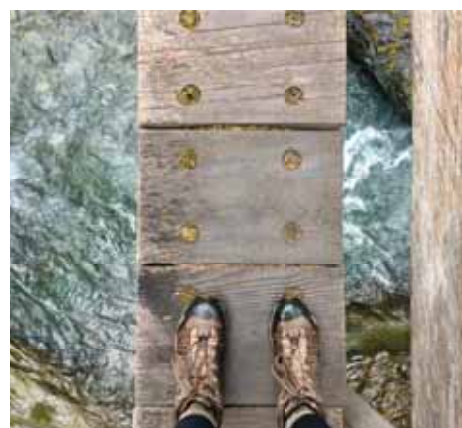
Crater Lake, OR



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