

NOGS LOG

JULY 2015

Volume 56, Number 1

JULY 6 - NOGS LUNCHEON
Presentation: World Oil Supply in Transition
Guest Speaker: Richard S. Bishop
RSK(UK) Limited • Houston Texas



19th Annual Gulf of Mexico

Deepwater

Technical Symposium

GEOSCIENCE OPENING SEMINAR AUGUST 18

"The Temporal and Spatial Evolution of Reservoirs and
Traps, Northern Deep Water Gulf of Mexico"

Paul Weimer
University of Colorado

This course will summarize the temporal and spatial evolution of the reservoirs for the 220 fields in the northern Deepwater Gulf of Mexico. Lectures and exercises will address the key components of each of the major reservoirs by age. The trap types for all of the fields are reviewed and placed within their regional context and exploration province type.



Tickets for the Geoscience Seminar
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AUGUST
18th, 19th & 20th
2015

*The Hilton New Orleans
Riverside Hotel*

www.deepwaternola.org





Published monthly by the New Orleans Geological Society.
This issue was sent to press on June 23, 2015.

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.

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on the cover

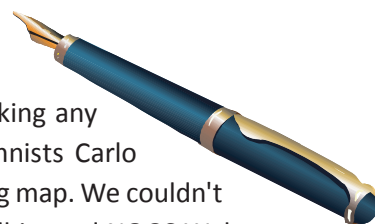
Cover Photo Submitted by Tom Klekamp

Perched Dunes — Lake Michigan Overlook, Sleeping Bear Dunes National Seashore (near Empire), Michigan

Some of the most prominent features in the park are the Wisconsin-age perched dunes. These are not ordinary beach dunes but high dunes perched on top of already high glacial moraines that the glaciers pushed before them and then deposited when ice halted and began to recede. As waves and wind along the lakeshore cut away the headlands of the glaciers, the wind blew the finer grained sands on top of the moraines. The coarser material fell down toward the beach. This continual sifting process can be experienced on a windy day from the Lake Michigan overlook on the Pierce Stocking Scenic Drive. You will see and feel the sand blowing upward and you may carry some of it away in your eyes, ears and hair. The Overlook Dune is a popular for its sunsets. Look carefully and you can see the more venturesome descending the dune, a drop of some 400 feet.

For more information on the geology of the area go to <http://www.nature.nps.gov/Geology/parks/slbe/index.cfm>

From the Editor



Our previous editors have come up with great recipe for the *NOGS LOG*; I won't be making any changes. Your *LOG* is a collaboration of many individuals including our Drill Bits columnists Carlo Christina and Al Baker. Kevin Trosclair compiles the accompanying South Louisiana scouting map. We couldn't function without the depth of knowledge and attention to detail of Ed Picou. The Info Tidbits and NOGS Welcomes columnist is our new Editor-Elect, Laura Sorey, a Chevron geoscientist. Her Info Tidbits in this issue is a worthwhile read; you'll like her prose. Peggy Rogers returns as our reporter for the Auxiliary. Arthur Christensen is our photographer. Essential to making the *LOG* readable and consistent are geologists and grammarians Sheri Richardson, Jessica Wold, and Bryan Banks. Annette Hudson tracks our advertisers and the updates to the contacts list. The multi-talented Kristee Brown handles our artwork, design and put the *LOG* to press. I cannot stress enough how much our advertisers mean to the *NOGS LOG*; drop them a note thanking them for their support.

This is your *NOGS LOG* and I'm always looking for good photos for the cover.

Tom
Tom Klekamp, Editor

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From the President

As I begin my first "Letter from the President," I am reminded of some lyrics from an old children's song:

*The cat came back. They thought he was a goner.
But the cat came back. He just wouldn't stay away.*

This is actually my second stint as NOGS President. In July 2010, I was President for all of one month until my employer at the time closed their New Orleans office and transferred me to Houston. Rick Kear took over and quite ably served as NOGS President for the rest of that term. After "staying alive" in the petroleum industry in Houston for three years, I got lucky and accepted a job back here in New Orleans with Stone Energy. Once this "cat" came back, it didn't take long for me to get "The Call" from Ed Picou on the NOGS Nominating committee asking me to take another shot at being NOGS President. I accepted because I felt honored once again to serve such a vibrant and time honored organization such as NOGS.

This past year as President-Elect, I was privileged to serve on the NOGS Board with a group of highly capable and innovative professionals. I truly appreciate the efforts of last year's Board members Kelli Hardesty (President), Jennifer Connolly (Vice President), Bryan Banks (Secretary), Art Johnson (Treasurer), Tavia Prouhet (*NOGS LOG* Editor), William Whiting (outgoing Director) and David Cope and Jim Zotkiewicz (both continuing Directors). Special thanks goes to Ed Picou for sage advice at all of the Board meetings and to officers and members of the NOGS Auxiliary who helped me (as Entertainment Chairman) organize and pull off another sumptuous NOGS Christmas Holiday Party. And of course, NOGS office manager Annette Hudson is the glue that holds our Society together and keeps us on the straight and narrow. All of these hard working individuals put in a lot of extra personal time to maintain the Society's high degree of service to the petroleum industry.

This year's NOGS Board has a tall order achieving the same accomplishments as last year's. The new Board consists of Al Melillo as President-Elect, Kathleen Haggart as Vice President, Andrew Thorne as Secretary, and Rhonda Roederer as Treasurer. Laura Sorey will be our new Editor-Elect and Brenda Reilly will serve as new Director along with David Cope and Jim Zotkiewicz. I'm confident that this incoming Board, along with numerous NOGS committee volunteers, will keep NOGS focused on its stated goal of "facilitating the development of the profession and science of geology" by the "dissemination of pertinent geological and technological knowledge." We hope to accomplish this task with several activities, including monthly technical luncheons, short courses and seminars, technical publications, high school science fair judging, Super Science Saturday at the Louisiana Children's Museum, and the awarding of numerous scholarships to area university undergraduate and graduate students. We on the Board are appreciative of any help and suggestions from you the Society membership in achieving these numerous goals. Feel free to contact any NOGS Board member or committee chairmen (see page 6 in the *NOGS LOG*).

A few upcoming events are of special note. This month's technical luncheon meeting on July 6 should be very interesting and timely. Richard Bishop, consultant with RSK Ltd in Houston and former AAPG President, will present a talk concerning "*World Oil Supply in Transition*." Sign up at www.nogs.org.

Next month, NOGS is a cosponsor of the 19th Annual Gulf of Mexico Deepwater Technical Symposium and Seminar, being held at the New Orleans Hilton Riverside Hotel on August 18–20. The special pre-Symposium all day technical seminar on August 18 will feature Dr. Paul Weimer of the University of Colorado, who will present "*The Temporal and Spatial Evolution of Reservoirs and Traps, Northern Deep Water Gulf Of Mexico*." Registration is open for both events at <http://www.deepwaternola.org/registration>. Please register for these events early as they usually fill up in advance.

Have a wonderful and safe Fourth of July Holiday, and I'll see you at the next NOGS Luncheon on July 6th.

David Reiter

NOGS Office

Office Manager: Annette Hudson

Phone: 504-561-8980 • Email: info@nogs.org • Website: www.nogs.org

The office is located at 810 Union Street, Suite 300, New Orleans, LA 70112.

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



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Member-at-Large	Jean Jones	504-738-8091			



July 6 • NOGS Luncheon

Holiday Inn Downtown Superdome

\$3.00 validated parking in hotel garage

Presentation:

World Oil Supply in Transition

Guest Speaker:

Richard S. Bishop

Co-Author: Wayne L. Kelley

RSK(UK) Limited • Houston, Texas

See page 9 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

July 3

Last day for Advanced Registration

19th Annual GoM Deepwater Technical Symposium

For more information, www.deepwaternola.org

August 18-20

19th Annual Gulf of Mexico Deepwater Technical Symposium

The Hilton N.O. Riverside • New Orleans, LA

For more information, www.deepwaternola.org

August 19-20

Summer NAPE Expo

George R. Brown Convention Center • Houston, TX

For more information, www.napeexpo.com

September 20-22

GCAGS 65th Annual Convention

George R. Brown Convention Center • Houston, TX

For more information, www.gcagshouston.com

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Continued from previous page

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2016-2017	Trustee	Tom Klekamp
2017-2018	Trustee	TBD
2017-2018	Trustee	TBD

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July 6 NOGS Luncheon Presentation

☆☆☆ at the Holiday Inn Superdome ☆☆☆

World Oil Supply in Transition

Presented by

Richard S. Bishop

Co-Author:

Wayne L. Kelley

RSK(UK) Limited • Houston, Texas



ABSTRACT

The world is not 'running out of oil' but there is concern about long term supply rate.

Historically, estimates of global oil supply have been based on a combination of resource volume and forecasted demand. The price was driven largely by the giant and super-giant conventional fields and reflected a rough parity of cost between the cheapest and most expensive producer. Today, the relatively low cost oil coming from the giants is no longer sufficient to meet global demand. Consequently, forecasting supply and price has been complicated by the wide range of costs, technological improvements and changes in the market. In an open market scenario the price of oil is determined by the sale of the most expensive oil needed to make up the total supply. However, traders are divided between those that perceive the market being determined by supply and those that see it as being a derivative of the macro-economy. Today, we see an uneasy equilibrium between these two determinants of price with a probability of increasing price volatility as the character of supply moves from a more homogenous past of rough parity of costs to a lumpier one with disparate project economics.

The combination of technology and increased price has added large volumes to the reserve base but much of these additions are 'high cost' oil which is at the highest risk in the event of price declines.

Forecasting oil price is not yet 'settled science' but our look at the transition includes consideration of:

- Shut in capacity: excess production capacity has shrunk from 15 million BOPD in the '80's, to around 4 to 6 million BOPD in the last decade, to perhaps as low as 2 to 3 MBOPD today. This means that global oil supply is evolving from one with flexibility to 'just in time'. The impact on price driven by demand instead of low cost will become more significant as excess supply shrinks and low cost production cannot be expanded.
- Reserve addition/ increasing production: The cost to add new production ranges from approximately \$25 billion per million BOPD to over \$50 billion per million BOPD. We estimate that the giant fields (i.e., the low cost producers) are approximately 50 percent depleted and significant expansion of their production rate is unlikely. Furthermore, even though global reserve volumes have grown, the time and cost to add production has increased significantly.

- Logistics: Industry has limitations to how fast new production can be added, particularly from complex new resources. In addition 'high cost' oil resources require significant changes in the transportation and refining infrastructure.
- Capital: the increased cost obviously means one is investing in the higher cost asset, not the lowest. Further, there is increasing risk of political intervention in all areas of production.
- Politics: unstable states, sanctity of contract and access to resources are increasingly significant concerns and limitations.
- Macro-economics: exporters of low cost oil are the primary beneficiaries of increased price. An unseen side effect of the transfer of wealth from importers to exporters has been to increase the fragility of the global financial system. The EIA estimates that over \$500 billion USD per year is flowing into the Gulf Region which, especially when leveraged, can impact the global financial stability. This transfer will continue due to the unabated increase in the demand for work performed by oil and the value of the US Dollar.
- Optimizing oil price: exporters will seek to maximize their profits but may also cause global economic restrictions thus reducing demand and increasing price volatility.

These changes have become more significant within the last decade and the consequences are beginning to emerge. The most visible is the tightening of excess supply and its vulnerability to interruption. This tightening is not likely to ease due to the high cost of adding new supply, limitations of low cost production, and lack of incentive for low cost producers to increase production. Nonetheless we have much lower prices today apparently due to increased sensitivity of price to multiple conditions and not just supply and demand.

The implication of these trends is a long term upward pressure on the cost of oil supply which can only be supported with appropriate price.

BIOGRAPHY

Richard S. Bishop, Ph.D. is a geologist who has worked the spectrum of research, exploration and production for Unocal (2 years), ExxonMobil (29 years), and as a consultant/independent (10 years including RSK). During this time he has 'seen the world' both as an explorationist and as a synthesizer of global exploration opportunities. Dick is Past President of the American Association of Petroleum Geologists and the Houston Geological Society. He has been recognized with the AAPG Sproule Award, is a Distinguished Alumnus of the University of Missouri, and an Honorary Member of both the AAPG and HGS. He was also recently named a Legend of the HGS.

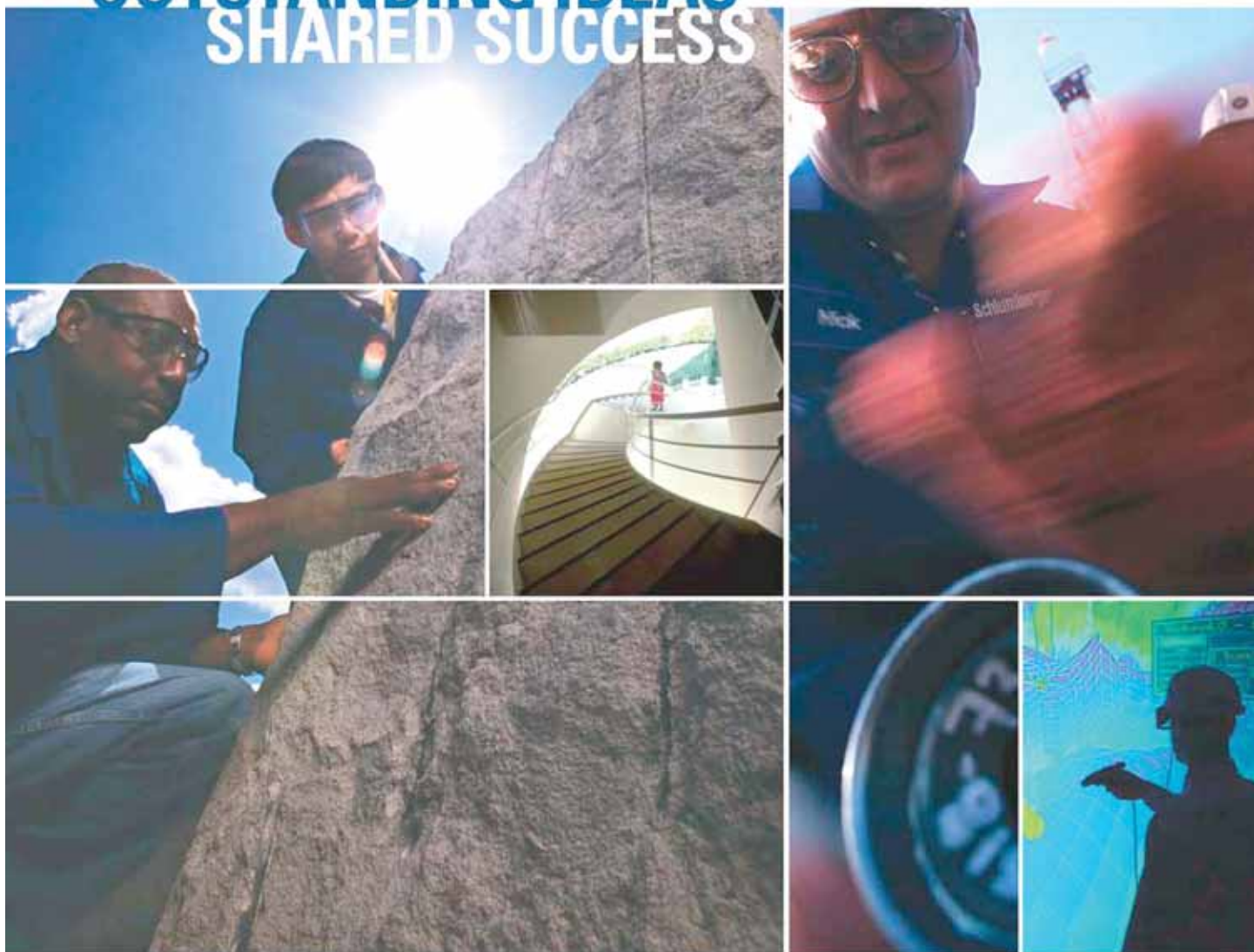
Dick earned his Ph.D. from Stanford University, his M.A. from University of Missouri, and B.S. from Texas Christian University. Dick is currently Executive Director and Chief Geologist of RSK.

THE LUNCHEON RESERVATION DEADLINE IS JULY 2 - CONTACT THE NOGS OFFICE

"And Looking Ahead . . ."

The next luncheon will be held on August 3. Our guest speaker, Dr. Joan Flinch, Repsol Services Co., will present "The Present Day Mexican Gulf of Mexico: Analog for Cretaceous-Paleogene Allochthonous Salt Canopies of the Western Mediterranean." Contact the NOGS office at 561-8980 or use the PayPal link on the NOGS website (www.nogs.org) to make your reservation.

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~ July 2015 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3 DWS Late attendee registration deadline	4 Independence Day
5	6 NOGS Luncheon	7	8	9	10	11
12	13	14	15 NOGS Board	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

July 6 NOGS Luncheon: Holiday Inn Superdome, 330 Loyola Ave. @11:30 am

Richard Bishop, RSK Ltd: World Oil Supply in Transition

~ August 2015 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3 NOGS Luncheon	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18 Deep Water Symposium	19 Deep Water Symposium Summer NAPE Houston	20 Deep Water Symposium Summer NAPE Houston	21	22
23	24	25	26 NOGS Board	27	28	29
30	31					

August 3 NOGS Luncheon: Holiday Inn Superdome, 330 Loyola Ave. @11:30 am

Dr. Joan Flinch, Geology Manager – Repsol Services Co., The present day Mexican Gulf of Mexico: analog for Cretaceous-Paleogene Allochthonous Salt Canopies of the Western Mediterranean

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."

Taking away the "Celebrating 60 Years" logo at the top of the NOGA Column brings to a close a wonderful year of celebrations. Now our new President, Trudy Corona, the Board, and many talented committee people will start planning 2015-2016 events. Our 60th year set the standards high but the newly elected officers are ready to begin another exciting year. Newly elected officers are:

Trudy Corona – President
Margie Conatser – Vice-President
Peggy Rogers – Secretary
Judy Lemarié – Treasurer
Mary Walther – Member-at-Large
Camille Yeldell – Parliamentarian
Directors 2014-2016 – Susie Baker, Judy Sabaté
Directors 2015-2017 – Alma Dunlap, Jean Jones

Our new officers were installed at the May 15th luncheon at Café Adelaide, Lowes Hotel. New President Trudy Corona was unable to attend due to illness. A bouquet of red roses was carried to her home. Debra Fein and MaryEllis Hasseltine planned a very delicious meal (topped with Café Adelaide's prize winning desert). I can vouch for the shrimp and grits. The charming dining room was adorned with lovely table arrangements that were won by lucky luncheon goers.

Judy Lemarié presented the **Outstanding Service Award** to **Elizabeth Furlong** for all her many years of service to the Auxiliary. Next month we will have Elizabeth's picture along with the luncheon committee in the NOGA news.



Newly installed officers: Mary Walther, Camille Yeldell, Margie Conatser, Peggy Rogers, Judy Lemarié, Alma Dunlap, Jean Jones, Susie Baker, Judy Sabaté

A new yearbook which will list all the activities for the year is underway. Don't miss out on having your name included. Use the membership application on the bottom of the page if you would enjoy becoming a part of this group.

Peggy Rogers, *NOGS LOG*

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



Submitted by Laura Sorey

Victoria Clesi is a new member from Environmental Resources Management in Metairie.

Austin Collins is a new student member and currently attends the University of New Orleans.

Molly Keogh joins us as a new student member from Tulane University where she is currently working towards her MS.

Danielle Kimble is a new student member from Nichols State University in Houma.

Bill Mann is a returning member with NOGS. Having previously worked with the USGS, Exxon, and Transco Exploration, he now serves as a partner in Mitchell Geological Associates, a small consulting firm specializing in prospect generation in Tennessee and Kentucky. They also specialize in underground injection control permit applications for enhanced recovery and disposal injection wells.

Charlie Miller III is a new member to NOGS. Charlie has worked for Energy Data Solutions for fifteen years. He is the Chief Technology Director, maintains the OCSBBS website, provides support for the Lexco OWL Mapping System and helps manage its staff in the New Orleans office. He holds a Bachelor's Degree from Tulane University and a Master's Degree from Troy State University. He also works with various groups like NOGS, API-Delta, Desk & Derrick Club, and PLANO. He and his wife Cheryl have two daughters, Victoria & Madelyn and they reside in Madisonville, Louisiana.

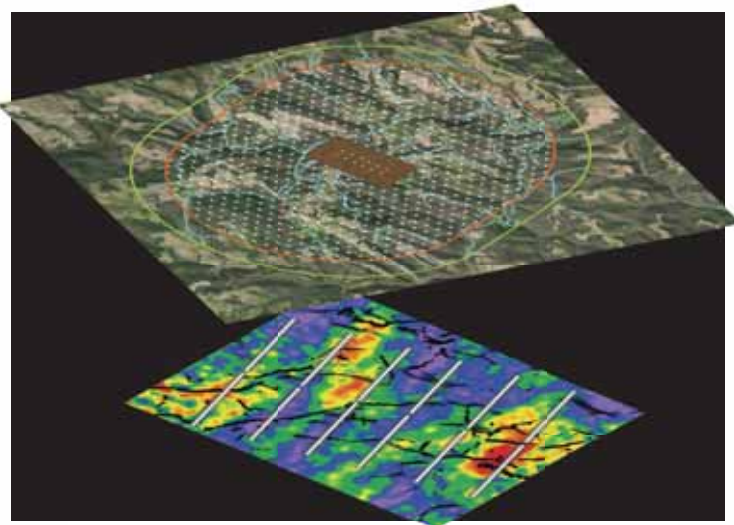
Peter Reale is a new student member and currently attends Tulane University

Rachelle Thomason joins us a student member from University of New Orleans where she is working on a master's degree while serving as a graduate TA.

Erik Everson is new member from Chevron in Covington where he works as geophysicist. Prior to starting with Chevron this past fall, Erik completed his PhD in geophysics at the University of Wyoming after finishing his bachelors at the University of Minnesota.

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South Louisiana and Offshore Gulf of Mexico Exploration and Production Activities

LAFAYETTE DISTRICT, ONSHORE AREA

By Carlo C. Christina

During the month of May the Office of Conservation issued 18 permits to drill in the Lafayette District, Onshore Area. Nine wells are relatively shallow tests, less than 9000 feet

NEW LOCATIONS

Magnum Producing, L.P. will drill a **rank wildcat**, (A), in Beauregard Parish to a depth of 9700 feet to test Upper Wilcox sands. The #1 Rice Land is located in Sec. 34, 4S-11W. There is no well control within 1 mile of the proposed location. (249045)

Also in Beauregard Parish, Warhorse Oil & Gas is drilling an interesting well in **Neale Field**, (B), to test the Sparta section at a depth of 8000 feet. The #1 Rice Land is located in Sec. 23, 3S-11W on the north flank of the large Neale structure which covers an area 4½ miles by 1½ mile. The field was discovered in 1940 with more than 150 wells drilled to date. (249060)

Samson Exploration will drill its #1 Wilson in **West Edgerly Field**, (C), Calcasieu Parish, to a depth of 11,324 feet to test Hackberry sands in the area. The well is located in Sec. 33, 9S-12W. There is no production within 1 mile of the proposed test. (249025)

In **Northwest Vinton Field**, (D), Calcasieu Parish, Alta Mesa Services has permitted the #1 Babineaux to test Hackberry sands at a depth of 12,442 feet. The well is located in Sec. 25, 10S-13W approximately 4000 feet from a recently completed gas well in the Upper Hackberry sand. It was completed flowing 5146 MCF and 192 BCPD through perforations 10,535 to 10,545 feet. (249072)

In Terrebonne Parish, **Gibson Field**, (E), GYB-Britlind Oil will drill to 11,623 feet to test Lower Krumbahr sands. The #1 Brown is located in Sec. 109, 16S-15E on the north flank of the field, approximately 1 mile from the nearest production. (249044)

COMPLETIONS

Hilcorp Energy has completed another gas well in **Deep Lake Field**, (F), Cameron Parish, in Sec. 7, 16S-3W. The #2 SL 20139 was completed flowing 6602 MCF and 110 BCPD through perforations 15,987 to 16,191 feet. The well was permitted to 18,500 feet but was drilled only to a depth of 16,750 feet and completed in the 15,400 Sand. (248868)

In Iberville Parish, **Dorcyville Field**, (G), Ponderosa Oil & Gas has drilled to a depth of 11,996 feet in Sec. 31, 10S-13E and has set a cement plug and released the rig. (248942)

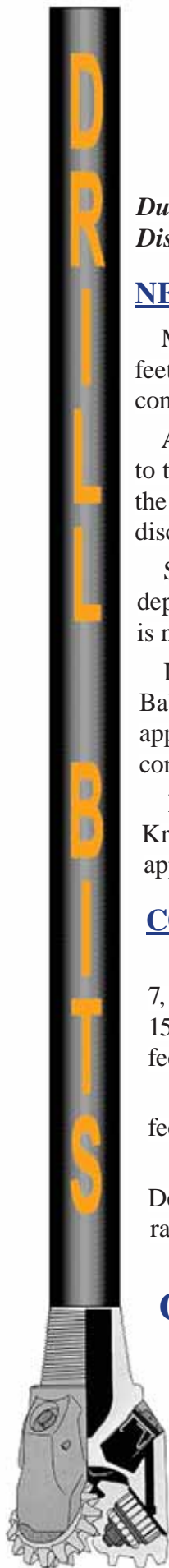
Sanchez Oil & Gas has plugged and abandoned its **wildcat**, (H), in St. Helena Parish. The #1 Denkmann was drilled to a depth of 7472 feet in Sec. 27, 2S-4E. As previously reported this was a rank wildcat located approximately 2 miles south of the nearest well. (248982)

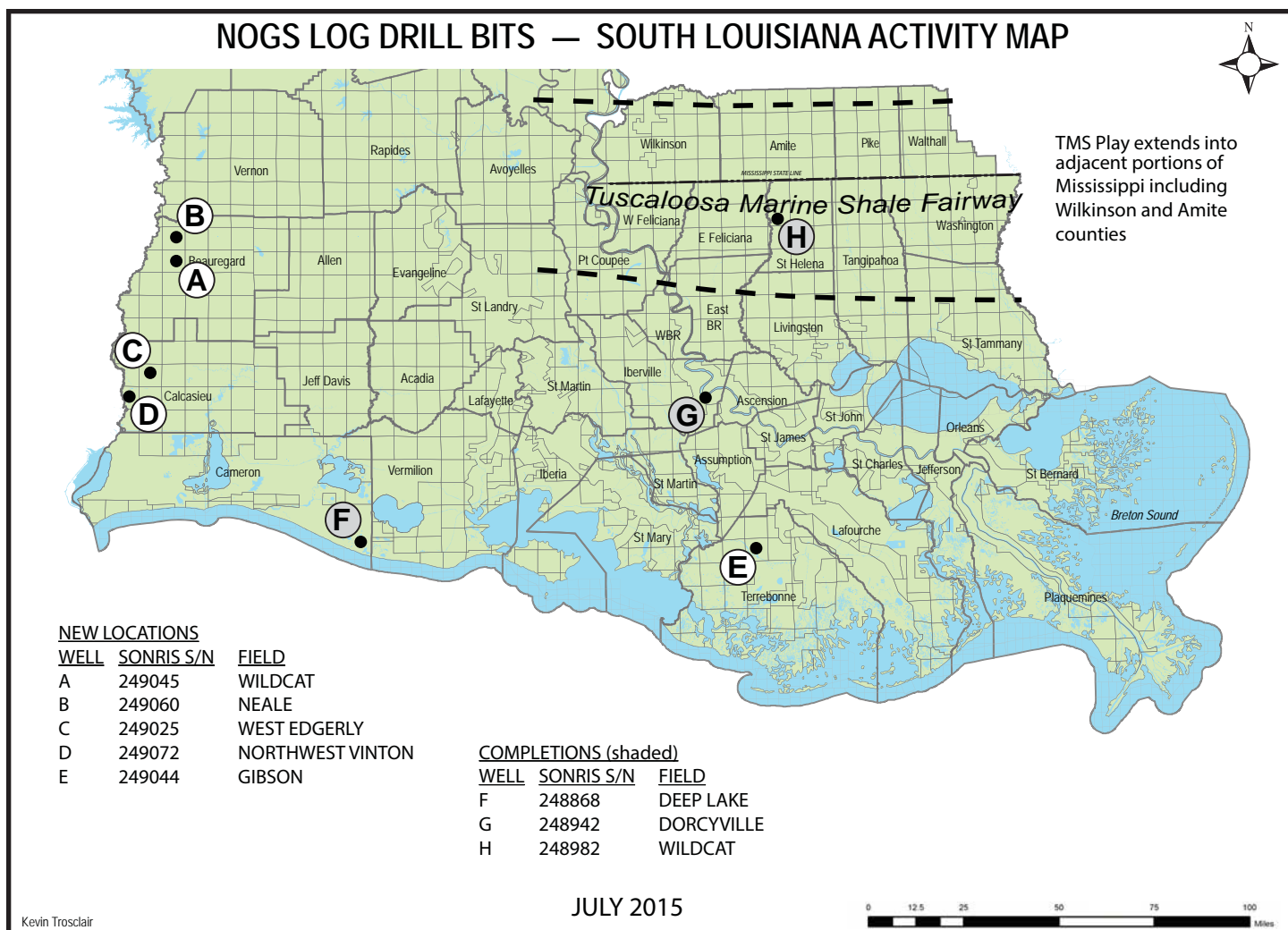
OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES

by Al Baker

During **May 2015**, the BOEM approved **77** Gulf of Mexico drilling permits. Of these, **25** were for shelf wells, and **52** were for deepwater wells. Of the total number of permits, there were **6 new well permits** issued, all in deepwater.

The six deepwater new well permits included **5** exploration wells and **1** development well. The five new well exploration permits were awarded to **Anadarko Petroleum** for their **Walker**





Ridge 51 #3 well, LLOG Exploration Offshore for their Mississippi Canyon 895 #1 well, to Marathon Oil for their Walker Ridge 225 #1 well, to Murphy Exploration & Production Company - USA for their Mississippi Canyon 692 #1 well and to Shell Offshore for their Atwater Valley 18 #2 well. The single deepwater development new well permit was granted to Chevron U.S.A. for their Green Canyon 640 #PS-9.

On May 29th, IHS-Petrodata reported that the Gulf of Mexico mobile offshore rig supply stood at 114, which is 1 rig more than last month. The marketed rig supply consisted of 73 rigs, of which 59 were under contract. The contracted versus total rig supply utilization rate is 51.8%, while the marketed contracted versus marketed supply utilization rate stands at 80.8%. The marketed rig supply number is 1 less than reported last month, whereas the contracted rig supply number is 1 greater than reported last month. In contrast, the April 2014 fleet utilization rate stood at 71.3% with 82 out of the 115 rigs under contract.

On May 29th, BakerHughes indicated that there were 29 active mobile offshore rigs in the Gulf, which is 49.2% of the rigs under contract mentioned above. This active rigs number is 5 fewer than reported last month. The current active rigs count compares to 59 active rigs during the same period last year, representing an astonishing 50.8% decline in yearly rig activity.

On May 29th, W&T Offshore announced a new discovery in Ewing Banks Block 910. The company logged a 160-foot gross hydrocarbon interval in its Ewing Banks 910 #A-5 ST well and is currently completing the well. The next well scheduled to be drilled will be the #A-8 exploration well. In the same press release, the company also noted that it had successfully completed the recently drilled Medusa #SS-6 well in Mississippi Canyon Block 538 Field. The well achieved an initial flow rate of 8000 BOPD and 6 MMCFPD. Their second field extension well, the Medusa #SS-7, is currently being completed.



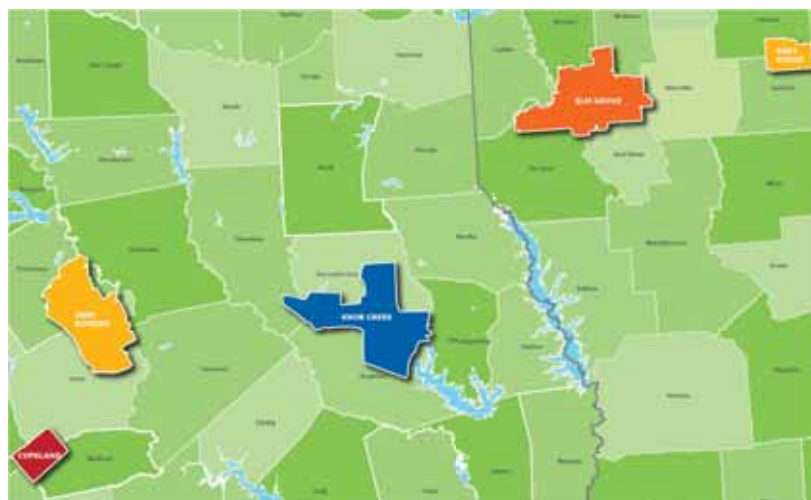
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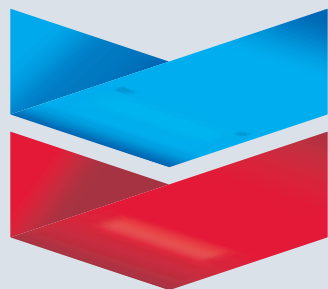
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Submitted by Laura Sorey

Be it *Mrs. Dalloway*, *A Brief History of Time*, or *The Wealth of Nations*, we all remember that book (or several) that a professor assigned to us as required reading once upon a time that we just never quite got around to finishing despite the “required” nature of the book. Whether you, as a professional fully-degreed geologist, stand a lot to gain by finally going back and finishing that sophomore year anthology of James Joyce short stories is subject to some debate. However, the status of your bookshelf remains in remiss if it lacks several key books that were or perhaps should have been assigned to you in geology class. The necessity of good text books and teachers to instruct about the intricacies of technical aspects within the discipline of geosciences cannot be underestimated. However, we frequently forget that the field of geology is more than just a set of rates, processes, and physical measurements. Geology represents the physical manifestation of time itself and generates a sense of place that defines the course of humanity throughout history. These books tell that story of geology while simultaneously engaging the reader within the larger cultural context around the science that make these titles invaluable resources to any geologist at any stage of their career.

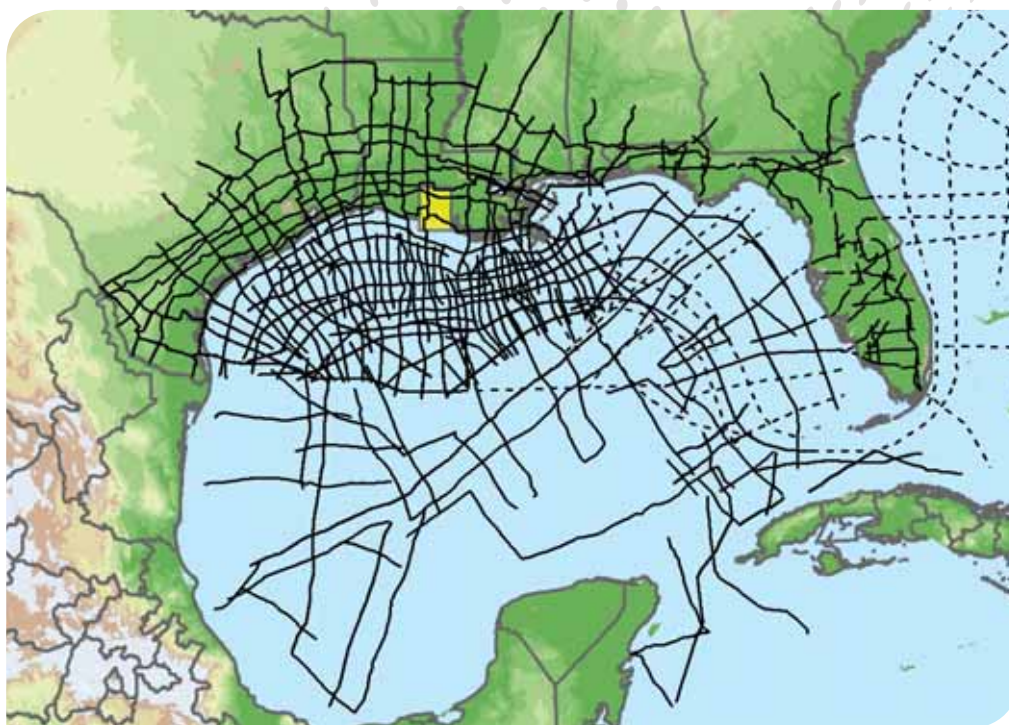
- ***The Control of Nature*** by John McPhee. McPhee’s small but engaging volume looks at modern society’s attempts to counteract the conflict that frequently arises between manmade infrastructure and the inexorable forces of Mother Nature. The book itself is split into three different sections that focus separately on the US Army Corps of Engineers’ struggles with the Atchafalaya River, a last ditch effort to stop a dangerous lava flow in Iceland, and the Californian fight to contain devastating debris flows from the San Gabriel Mountains.


- ***The Man Who Found Time: James Hutton and The Discovery of Earth's Antiquity*** by Jack Repcheck. Within the realms of science, names like Newton, Darwin, Einstein, and Franklin stand out as giants who changed science forever. Frequently left off this prestigious list is the name of James Hutton, a Scottish naturalist and gentleman farmer who induced a paradigm shift in the way we understand the world and indeed, the very existence of time. This compelling narrative follows Hutton throughout the Scottish Highlands and Border Counties as he uncovers the geological evidence that would lead him to first propose the basis for Uniformitarianism. Not merely an account of the development a scientific principle, Repcheck eloquently conveys the emotional heft and significance of the famous moment at Siccar Point where Hutton ultimately discerned “no vestige of a beginning,—no prospect of an end.”


- ***Rising Tide: The Great Mississippi Flood of 1927 and How it Changed America*** by John M. Barry. Barry’s definitive account of 1927 flood of the Lower Mississippi River documents the inception of the flood control policies that remain the subject of intense debate in modern Louisiana. Aside from the fascinating insight into the hydrology and engineering behind the Mississippi River, *Rising Tide* charts almost 200 years of history in the Deep South ranging from triumphant victories, bitter failures, and everything in between that are borne out on the muddy waters of the Mississippi. In this rich history, Barry captures how the human condition altered, bent, and occasionally broke under the weight of those flood waters and how the decisions made by men of power induced paradigm shifts, good and evil alike, for racial relations, centuries of agricultural tradition, the regional balance of wealth and power, and even the occupancy of the highest political offices in the land.



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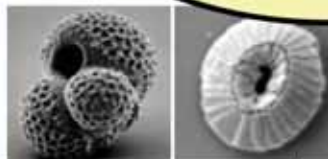
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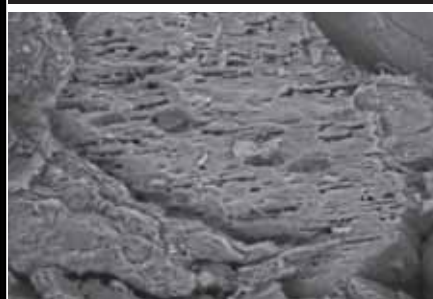
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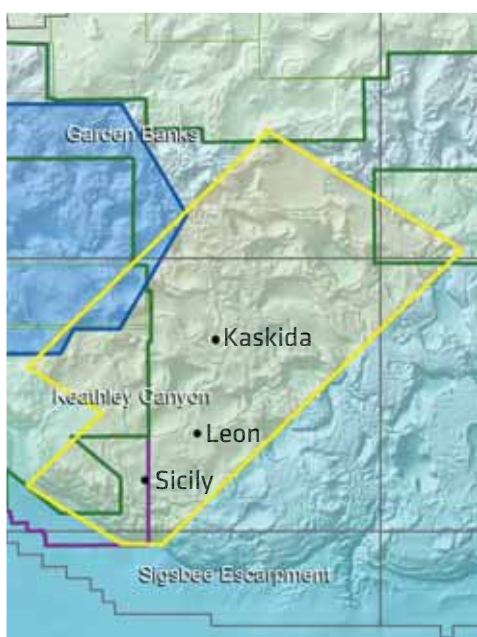
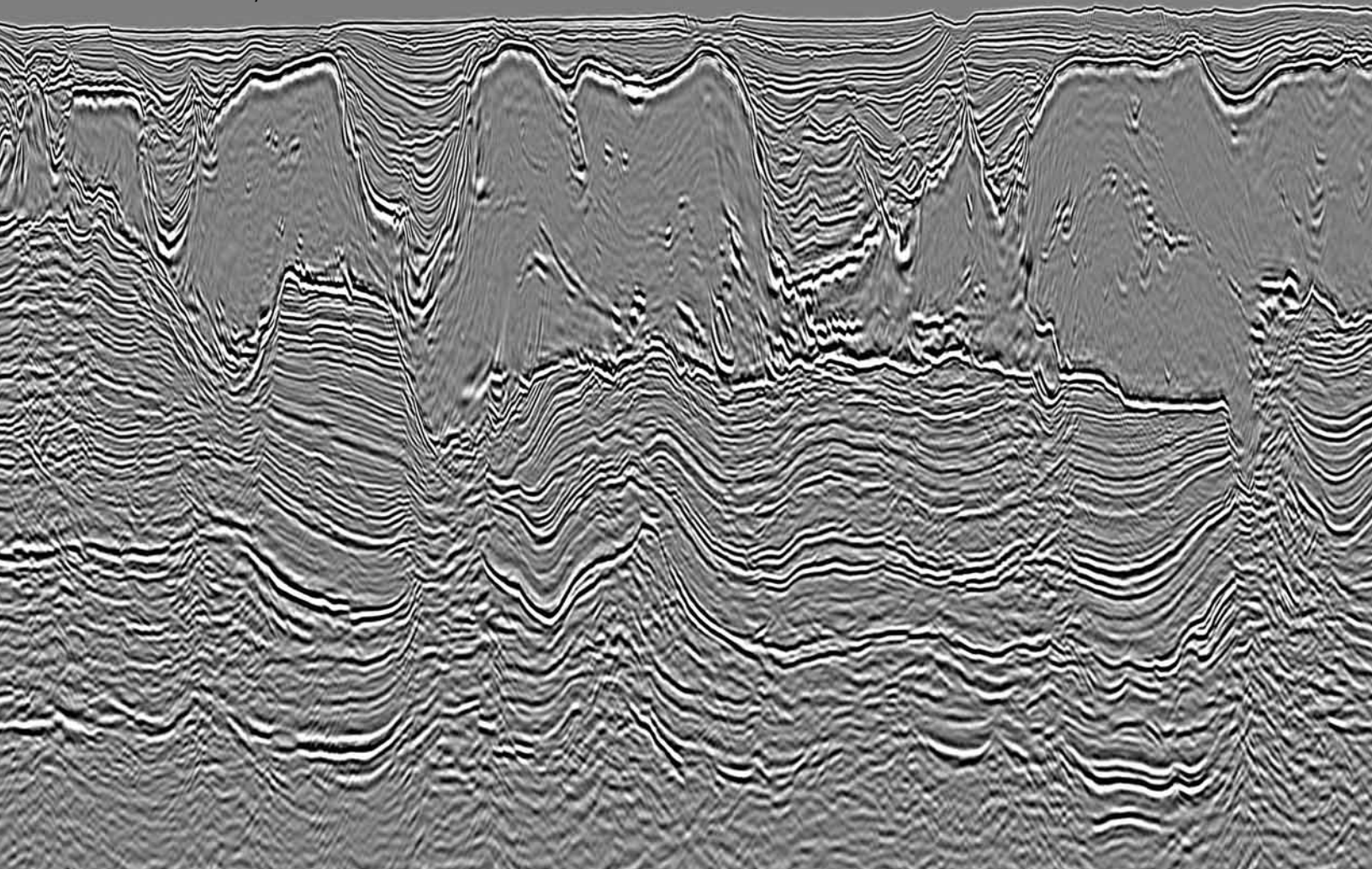


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