



In Loving Memory
Edward B. Picou, Jr.

From the Editor

Greetings Everyone,

One of my favorite times of the year is just around the corner - Mardi Gras! Growing up in New Orleans, we'd listen to Professor Longhair and The Hawketts all day, make shoebox floats at school, and of course enjoy king cake from Randazzo's. In grade school, I would sleep at my best friend's house so we could get up at 3AM to get good spots along the Zulu route. Zulu is by far my favorite parade, and it was a dream to ride in it in 2011 with my boss at the time. This year my partner is participating as a Mardi Gras Indian (9th Ward Seminoles tribe), so on Mardi Gras day I'll be out there supporting him and taking pictures.. In grade school, I would sleep at my best friend's house so we could get up at 3AM to get good spots along the Zulu route. Zulu is by far my favorite parade, and it was a dream to ride in it in 2011 with my boss at the time. This year my partner is participating as a Mardi Gras Indian (9th Ward Seminoles tribe), so on Mardi Gras day I'll be out there supporting him and taking pictures.

As I'm sure many of you have already heard, the Louisiana Department of Natural Energy and Resources (as it's now called) has been granted primacy by the EPA over underground carbon sequestration wells. Although not my section at LDENR, I know the dedicated managers, geologists, and engineers personally responsible for this achievement and have witnessed first hand how hard they've worked for this. This is such a huge step for Louisiana!

As many of you now know, Ed Picou passed away late last month played such a pivotal role with NOGS, and we'd like to publish his words and photos that our readers may have in our next edition. Please submit anything you'd like to have published to editor@nogs.org. He will surely be missed.

Brittany



Brittany George
2023/2024 NOGS Log Editor





MARK WOJNA

A MESSAGE FROM THE 2023/2024 NOGS PRESIDENT

I would like to wish everyone a safe Carnival season and a Happy Mardi Gras! Carnival is a wonderful time of year as winter and cold weather wind down in South Louisiana. Having grown up in Detroit, all I had to look forward to at this time of year was dreary, cold, snowy weather. My introduction to New Orleans was Mardi Gras weekend of 1983. After a weekend of parades, parties and celebrations, I decided that New Orleans was where I wanted to live. Carnival offers something for everyone: parades, family get togethers, Mardi Gras balls, neighborhood parties and even opportunities for family vacations. My favorite parade has become Krewe du Vieux. I had an opportunity to ride in Tucks one year. Thank you, Seismic Exchange for that experience. I look forward to experiencing this year's Mardi Gras parades through my two year old grandson's eyes.

As 2024 begins I would encourage our membership to consider attending a professional conference this year. Personally, I'm heading to the NAPE Summit in Houston February 7-9. This conference brings together oil and gas professionals, investors, service companies and provides exposure to current oil and gas deal opportunities. As an oil and gas geologist, I look forward to attending NAPE every year. Additional conferences to consider along the Gulf Coast this year are the Carbon Capture, Utilization and Storage (CCUS) 2024 held in Houston March 11-13, Geogulf 2024 in San Antonio April 10-12 and of course The Deep Water Technical Symposium (DWTS) co-sponsored by NOGS and held in New Orleans August 15-16. Technical conferences and conventions provide opportunities to be exposed to new ideas, new technologies, developing trends in our respective industries and continuing education. They also provide great opportunities to network and develop new professional and personal relationships. They have played an important role in my development as a professional geologist in the oil and gas industry.

The state of Louisiana recently successfully secured Class VI primacy by the U.S. Environmental Protection Agency (EPA) as it relates to carbon sequestration. This decision gives the state the authority to permit, site and provide oversight of carbon storage wells in the state. This is a huge win for our state and will provide job growth for geologists in Louisiana. The CCUS convention I referenced earlier would be a good start for any geologist interested in learning more about this industry or seeking work in this developing field.

NOGS will be hosting our annual golf tournament on Monday April 29th at Beau Chene in Mandeville. That's the Monday between Jazz Fest weekends. This is a favorite annual event for many of our members. Even if you don't play, please consider volunteering at the event. It's a great opportunity to get out of the office for a day and socialize with other geologists in our community. Look for details in the NOGS LOG. I look forward to seeing everyone at the tournament in April.

This letter would not be complete without mentioning the passing of our dear friend, colleague and NOGS historian Ed Picou. Ed enriched our organization in many significant, impactful ways. His obituary is included in this month's newsletter. Rest in peace, Ed Picou.

NOGS MEETING

CHRISTOPHER SMITH

EVALUATING VOLATILES ENTRAINED IN LEGACY UNPRESERVED CUTTINGS FROM THE GULF OF MEXICO AND TRINIDAD TO UNDERSTAND THE SUBSURFACE MOVEMENT OF OIL AND GAS, COMPARTMENTS/SEALS/BAFFLES, AND NEIGHBORING PROSPECTS

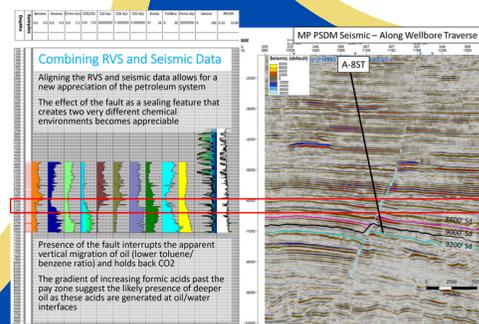


Rock volatiles stratigraphy (RVS) was pioneered and developed since 2010 by Advanced Hydrocarbon Stratigraphy to provide actionable information for oil and gas operators by detailed analysis of volatile subsurface fluids entrained in geological samples, typically cuttings and core (which can be decades old); since expanding to helium, geothermal, and CCS applications. RVS work in the Gulf and the Caribbean is principally oil and gas though applications like offshore CCS and evaluating the paleo environment across the K-T boundary are ongoing. With direct measurements of 40+ compounds and rock properties RVS offers unique insights, especially when working with unpreserved cuttings for unplanned postmortems. Two wells, Cantium's OCS-G4903 A8ST1 drilled 2018, shallow GOM and Touchstone Exploration's Cascadura Deep-1 drilled 2020 onshore Trinidad are discussed. In both cases RVS was run on unpreserved cuttings and assessed how HC resources moved in the subsurface, where compartments/baffles/seals were/weren't encountered, and the prospects for neighboring payzones/accumulations.

WEDNESDAY
7
FEBRUARY

**ZEA'S
NORTHSHORE**

11:30 AM
NETWORKING
12:00 NOON
PROGRAM





IN LOVING MEMORY OF



EDWARD B.
PICOU, JR

MARCH 26, 1932 - JANUARY 30, 2024



O B I T U A R Y

by Allan Melillo

In the early hours of January 30, NOGS lost one of its longest-standing and most dedicated members with the passing of Ed Picou at the age of 91. He died peacefully at home of natural causes in the company of his life partner of over 56 years, Dan Gibson Armstrong. My wife Genny and I have spent many enjoyable hours in their company and will miss Ed greatly. He epitomized what it means to be “a gentleman and a scholar.” I don’t think I ever heard Ed raise his voice or speak unkindly of anyone. Ed’s style was to be positive and encouraging and to find ways to make ideas a reality. Early in my career at Chevron, I was a micropaleontologist and well aware of Ed’s reputation as a practitioner of the highest caliber. One of Ed’s greatest strengths was his ability to recall the smallest details necessary to identify thousands of species of “bugs”. He applied this same skill to recalling events that took place at NOGS decades before and used it to help presidents and directors with the decision-making process until just a few years ago. Ed’s institutional knowledge will be sorely missed.

Ed earned a BS degree in Geology from Louisiana State University in 1955. Following graduation, he served in the U.S. Army as a commissioned officer in the

Chemical Corps, mostly in Korea. Upon his discharge in 1957, Ed returned to Louisiana with plans to earn a Ph.D. in micropaleontology from LSU. However, two Shell managers offered him a job as a micropaleontologist in the South Louisiana Exploration Division in Baton Rouge. Thus began Ed’s illustrious 34-year career at Shell. In 1960, Shell transferred him to New Orleans whereupon he promptly joined NOGS. Ed supervised the Exploration micropaleontology staff for almost three decades and retired in 1991 as an Exploration Consultant, the company’s highest technical rank. Throughout his time at Shell and well into retirement, Ed advocated tirelessly for the need to integrate micropaleontologic data with geologic and geophysical data.

Ed generously gave his time and energy to every professional organization of which he was a member and believed strongly in the importance of service to others. NOGS and many other organizations were made better because of Ed and gratitude for his efforts is reflected in the number of awards and honorary memberships he held. Among those most meaningful to him were the highest award of the Gulf Coast Association of Geological Societies (GCAGS) - the Don R. Boyd Medal for Excellence in Gulf Coast



Geology (2010), the NOGS Lifetime Achievement Award, (2020) and most recently, an Honorary Doctor of Science degree from the College of Science at LSU (2023). He held honorary memberships in NOGS, AAPG, SEPM (Society for Sedimentary Geology), the Gulf Coast Section of SEPM, and the GCAGS.

What made Ed unique vis-à-vis NOGS is how deeply he was involved in almost every aspect of our organization and for how long he did it. In fact, Ed was affectionately known as “Mr. NOGS,” and it’s easy to see why. In addition to serving as NOGS president from 1992 to 1993, he was ubiquitous at almost every event, whether it was a monthly luncheon, board of directors meeting, the Memorial Foundation meetings, or any social event. I’ve had a fairly high level of involvement with NOGS since about 2014 and I assure you, it takes a lot of energy. Ed did that at a higher level for almost 30 years! He also served on many NOGS committees over the years and worked as the editor of the NOGS Log from 1994 to 2001, a position with a

huge time commitment. An early advocate for digitizing technical publications, Ed was instrumental in having all the society’s publications digitized by AAPG Datapages in 2003, making NOGS the first local geological society in the country to do so. We have had many fine officers and volunteers over the years, but I am unaware of anyone who can match that level of commitment for that long. Numerous NOGS presidents, including me, have benefited from Ed’s counsel at one time or another during their tenure.

Education was always important to Ed. For many years, he served on the LSU Geology Alumni Advisory Council. In 2007, through the Foundation of the American Association of Petroleum Geologists Grants-in-Aid program, he funded a university-restricted graduate scholarship for deserving geology students at LSU. In 2002, the Foundation of the Gulf Coast Section of SEPM honored Ed by naming their Fellowship Grant for Graduate Studies in Earth Sciences for him.

I’ve tried to give our readers a brief idea of what Ed was like as a person and some of the things he accomplished. Please look at the partial list of his awards and accomplishments below to get a more complete idea.

Memorial donations should be sent to the AAPG Foundation, P.O. Box 949, Tulsa, OK 74104, designated for his LSU Grant-in-Aid Scholarship.



A PARTIAL LIST OF ED PICOU'S ACCOMPLISHMENTS AND AWARDS

IN COMPILING THIS LIST, I BENEFITED GREATLY FROM, AND AM INDEBTED TO, PREVIOUS BIOGRAPHERS OF ED, INCLUDING THE LATE DORIS M. CURTIS (1984), THE LATE JAMES A. (JIM) HARTMAN (1995), THE LATE BRIAN J. O'NEILL (2002, 2005) AND THE LATE THOMAS C. (TOM) KLEKAMP (2010). IN SOME CASES, DATES ARE INCOMPLETE OR APPROXIMATE.

HONORARY MEMBERSHIPS

AAPG (2002)
NOGS (1994)
GCAGS (Gulf Coast Association of Geological Societies, 1995)
SEPM (Society for Sedimentary Geology) (1984)
GCS-SEPM (Gulf Coast Section-SEPM, 1984)

LOUISIANA CERTIFIED PETROLEUM GEOLOGIST

LSU

1955 – BS in Geology
2000's - Member and Former Chair - College of Science Dean's Circle Executive Committee and LSU College of Basic Sciences Development Council
2007 – **Hall of Distinction of the College of Science**
2009 – **Alumni Association Hall of Distinction**
2000's - Past President and member of LSU Geology Alumni Association
2000's - Geology Alumni Advisory Council
2023 – **Awarded Honorary Doctorate in Geology**

SHELL

1957 – Joined
1960's – **Helped develop biostratigraphic zonations for Louisiana and the Gulf of Mexico shelf and deep-water**
Mid-1960's – Advanced steadily to become Supervisor of Exploration Paleontology staff for almost 30 years
1970's – Pivotal role in development of offshore biostratigraphic zonations
1989 – **Promoted to Exploration Consultant (Shell's highest technical rank)**
1991 – Retired after 34 years

NOGS

1960 – Joined
1990's - Chair of various committees
1992-1993 – **President**
1993 – Member of Memorial Foundation
1994-2001 – **Editor of NOGS Log**
1998, 2002, 2009 – Presidents Award
2003- **Led effort to digitize AAPG Datapages and all NOGS publications**
2021 – **Lifetime Achievement Award**



AAPG

1955 – Joined
1976-1982 - Gulf Coast Geology section for COSUNA (Correlation of Stratigraphic Units in North America) Project
1976 – With the late Doris M. Curtis, presented a paper at Annual Meeting entitled “McAllen Ranch Field: Depositional Environments of Reservoir Sandstones and Associated Shales”
1980-83, 1991-94, 1999-2002 – Member of House of Delegates
1994 – Chair of Rules and Procedures Committee
1994 - Joined Foundation Trustee Associates
1999 – **Distinguished Service Award**
2000-2002 - **Association Treasurer**
2002-2005 – GeoCare Insurance Committee
2005 – Vice-President to the Board of AAPG Datapages
2007 – **Endowed the AAPG Foundation Edward B Picou, Jr Named Grant, awarded yearly to an LSU graduate student**

GCAGS

1960's - Joined
1997 – Vice-Chairman-Technical for GCAGS Convention in New Orleans
2010 – **Awarded Don R. Boyd Medal for Excellence in Gulf Coast Geology (the society's highest honor)**
2002 - **Foundation named their Foundation Grant for Graduate Studies in Earth Sciences for Ed**

GCS-SEPM

1958 - Joined
1972-74 – **President**
1977 – With the late Doris Curtis, presented paper at Annual Meeting entitled “McAllen Ranch Field: Depositional Environments of Reservoir Sandstones and Associated Shales” presenting Shell's model for this field
1979-82 – Member of Research Committee
1981 – **With the late Doris M. Curtis, presented a paper at Annual Meeting entitled “McAllen Ranch Field: Depositional Environments of Reservoir Sandstones and Associated Shales” dealing with the recognition of shallow-water versus deep-water sandstones**
1984-86 – **Trustee of the Foundation**
1997 - **Led Taxonomic Equivalency Project to give geologists the ability to understand Oligocene-Pleistocene foraminiferal correlations made by company and consultant biostratigraphers, which resulted in the 1999 publication “Gulf of Mexico Basin Biostratigraphic Index Fossils: A Geoscientists Guide – Oligocene through Pleistocene” of which Ed was Chief Editor**
1997 – **Distinguished Service Award**
2002 – **Foundation Board named Graduate Fellowship Program in his honor**



SEPM

1965 – Joined

1976 – Technical Program Chair for AAPG/SEPM Annual Meeting in New Orleans

1976 – **With the late Doris Curtis, presented paper at AAPG/SEPM Annual Meeting entitled “Gulf Coast Cenozoic-Model for the Application of Stratigraphic Concepts to Exploration on Passive Margins,” which was chosen as “Best of AAPG for SEG” and presented at SEG Annual Convention in 1977**

1979-80 – **Society Vice-President**

1982-84 - **President, North American Micropaleontology Section**

API-DELTA SECTION

2001 – Meritorious Service Award

PALEONTOLOGICAL RESEARCH INSTITUTION

2002-2023 – Lifetime Trustee

OTHER MEMBERSHIPS

Baton Rouge Geological Society

Houston Geological Society

SPE

SIPES

American Association for the Advancement of Science - Fellow

Cushman Foundation for Foraminiferal Research – Fellow and Patron

Paleontological Society



NOGS GOLF TOURNAMENT

Save the Date!

**MONDAY, APRIL 29, 2024
BEAU CHENE COUNTRY CLUB
10:00 AM SHOTGUN START**

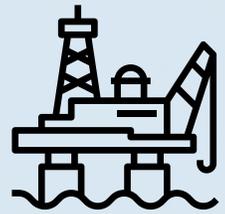
*Volunteers
Needed!*



**INDIVIDUALS - \$175
CORPORATE TEAM - \$700
4 MULLIGANS - \$20
HOLE SPONSOR - \$150**

DRILL BITS

OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES BY AL BAKER



During December 2023, the **Bureau of Safety and Environmental Enforcement (BSEE)** approved 45 Gulf of Mexico (GoM) drilling permits. Three of the permits were for shelf wells, and the remaining 42 permits were for deepwater wells. There was 1 new well permit each issued on the shelf and in deepwater.

The deepwater new well permit was for an injection well. **Shell Offshore** received the well permit for their Mississippi Canyon 809 #UI-5 well in their Ursa Field. **Byron Energy** obtained a development well permit for their South Marsh Island 58 #G-8 well.

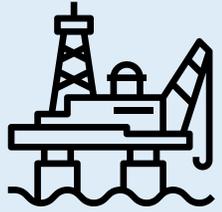
On December 29th, **S&P Global Petrodata** indicated that the GoM mobile offshore rig supply stood at 49, which is the same as last month. The marketed rig supply consisted of 36 rigs, of which 28 were under contract. The marketed rig supply is the same as last month, whereas the contracted rig supply decreased by 1 when compared to last month. The marketed contracted versus total rig supply utilization rate remained at 73.5%, and the marketed contracted versus marketed supply utilization rate stood at 77.8%. By comparison, the December 2022 total fleet utilization rate stood at 73.9% with 34 rigs under contract out of the 46 rigs in the fleet.

On December 29th, **Baker Hughes** reported that there are 18 active mobile offshore rigs in the GoM, which is 1 less than last month and 77.8% of the rigs under contract mentioned above. Currently, 1 rig is drilling on the shelf, and 17 rigs are drilling in deepwater. The shelf rig is located in the Eugene Island Area. The deepwater rigs include 9 rigs in the Mississippi Canyon Area, 3 rigs in the Alaminos Canyon Area, 2 rigs in the Green Canyon Area, and 1 rig each in the Walker Ridge, Atwater Valley and Garden Banks Areas.

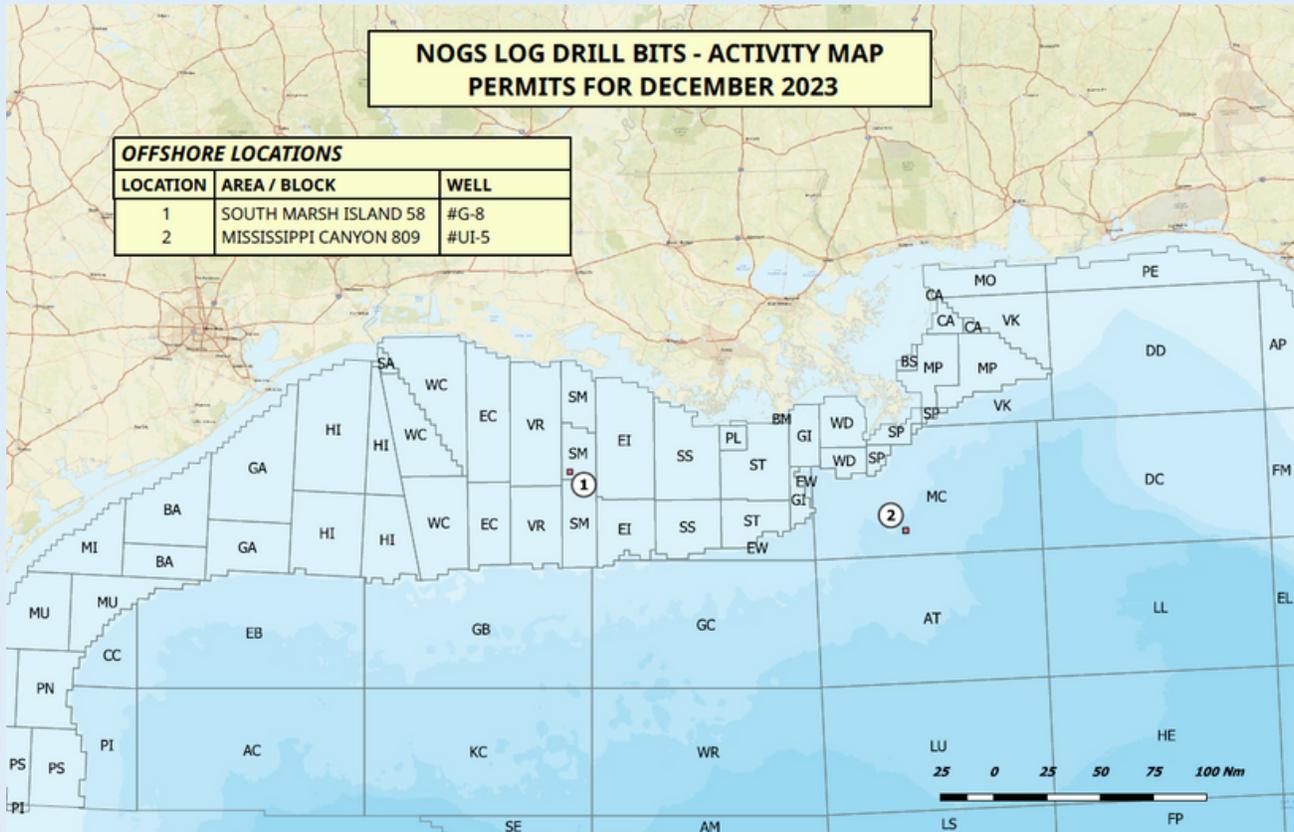
On December 29th, the **Baker Hughes** total U.S. rig count stood at 622 rigs, which is 3 less than reported at the end of November 2023. Of the 622 rigs, 500 (80.4%) are oil rigs and 120 (19.3%) are gas rigs. Two rigs are listed as miscellaneous. A year ago, there were 779 rigs working in the U.S. inferring that the 157 rig decline represents a 20.2% decrease in rigs year over year. As usual, Texas continues to have the largest number of rigs with 309, which is 49.7% of the total number of rigs in the U. S. Louisiana currently has a total of 42 rigs, which is 1 more than last month. Louisiana ranks fourth behind New Mexico, which has 106 rigs and Oklahoma, which has 44 rigs.

On December 20th, **OCS Sale 261** was finally held after numerous delays imposed by the Biden administration. It was the largest auction held in the GoM since 2015. A total of 26 companies submitted 352 bids on 311 tracts for a total bid exposure of \$441,896,332. Fifty-one bids were on shelf blocks, and 302 bids were on deepwater tracts. The total amount of apparent winning bids was \$382,168,507. Shell Offshore was the most active bidder entering 73 bids and exposing a total amount of \$76.4 million, of which \$69.0 million was on high bids on 65 blocks. Hess Corporation bid the most money with \$90.3 million on 22 blocks, of which \$88.3 million was on high bids on 20 blocks. The block receiving the most bids (5) and the highest bid of \$25,500,085 by Anadarko US Offshore was Mississippi Canyon Block 389.

DRILL BITS



NEW WELL PERMITS OFFSHORE GULF OF MEXICO SHELF AND DEEPWATER ACTIVITIES MAP BY KEVIN TROSCLAIR



Recent Energy Headlines

December 2023 Recap

1/22/2024 - W&T Offshore to increase oil and gas production with \$72 million U.S. Gulf of Mexico acquisitions - W&T Offshore, Inc. has completed the accretive acquisition of six fields in shallow waters of the U.S. Gulf of Mexico. W&T was the successful bidder for certain synergistic assets in the Gulf of Mexico offered by MLCJR LLC, Cox Oil Offshore, L.L.C., Cox Operating, L.L.C., Energy XXI GOM, LLC, Energy XXI Gulf Coast, LLC, EPL Oil & Gas, LLC and M21K, LLC. The final purchase price for the assets was \$72 million. The six fields acquired include Eugene Island 064, Main Pass 061, Mobile 904, Mobile 916, South Pass 049 and West Delta 073, all of which include a 100% working interest and an average 82% net revenue interest. [Read Full Article](#)

1/19/2024 - BOEM Finalizes Revisions to Bid Adequacy Procedures for Oil & Gas Lease Sales - The Bureau of Ocean Energy Management (BOEM) today released final revisions to its bid adequacy procedures in the Federal Register. These procedures ensure the American taxpayer receives fair market value from Outer Continental Shelf (OCS) oil and gas lease sales. BOEM intends to begin using the revised procedures to evaluate lease sale bids received as part of the 2024-2029 National OCS Oil and Gas Leasing Program. [Read Full Article](#)

1/16/2024 - Talos to Acquire QuarterNorth for \$1.3B, Add GOM Production - Talos Energy Inc. is acquiring privately held U.S. Gulf of Mexico exploration and production company QuarterNorth Energy Inc. for \$1.29 billion. The acquisition will add production of approximately 30,000 barrels of oil equivalent per day (boepd) expected for full-year 2024, averaging about 75 percent oil from approximately 95 percent operated assets, inclusive of planned downtime, Talos said in a news release Monday. QuarterNorth's producing assets include six major fields. The acquisition will also add proved reserves of approximately 69 million barrels of oil equivalent with a PV-10 of \$1.7 billion, according to the release. [Read Full Article](#)

1/10/2024 - Beacon Gives Gulf of Mexico Winterfell Development a Green Light - The 100 million BOE-plus find will be tied back to the Heidelberg spar. Beacon Offshore Energy has taken a final investment decision to develop the Winterfell discovery which is operated by subsidiary BOE Exploration & Production LLC (BOE) and will be developed as a subsea tieback the Occidental's Heidelberg spar. The Winterfell discovery is a Miocene-aged project principally located in Green Canyon Blocks 943, 944, 987, and 988 with a water depth of around 5,200 ft. [Read Full Article](#)

1/2/2024 - EPA grants Louisiana primacy in permitting, regulating carbon capture wells - The Environmental Protection Agency is handing Louisiana regulators the power to approve carbon capture projects at a time when the state's influential energy sector wants to make the Gulf Coast a hub for the rapidly expanding industry, reports The Associated Press. Louisiana will be able to issue permits for wells that store carbon dioxide, a critical component of carbon capture and removal technology. In all but two other states, the Environmental Protection Agency is responsible for permitting. Proponents of the change say it will speed up approvals of new projects critical for reducing climate-warming greenhouse gas emissions. [Read Full Article](#)



AAPG



Calling for donations for the upcoming **AAPG Caughey-Zimmermann Energy Library**

LSU AAPG is developing a library that will provide a **wealth of valuable resources** to students. Our goal is to foster a **collaborative environment** where students can **explore** topics in petroleum geology, **empowering** them to **pursue careers** in the energy sector... ***BUT WE NEED YOUR HELP!***

How can you support us?

- ✓ Physical book donations
- ✓ Digital book donations
- ✓ Monetary donations

ALL donors will receive **recognition** in the library!

Donations over **\$150** will receive an **award!**

Follow the link to
learn how to
donate!

**[https://bit.ly/3
WfLuGa](https://bit.ly/3WfLuGa)**



JANUARY 2024 MONTHLY MEETING RECAP



Gaea Earth Group History

2024 Gaia Earth Group
Complete solution for risk mitigation and cost reduction of your data acquisition plan throughout the well life cycle.
2023 Operations
> 400 Gaia Cable Protection system installations.
Owl (King) Award for Innovation 2023
Subsurface Alliance with IRI Petrophysics.

2018 First Multisensor WXS0

2014 Gaia Earth Technologies Limited
Full track solutions for O&G operations. Successful portfolio including corepack modelling, noise sharing, mitigation, downhole sensors, and depth validation technologies.

2011 First WLS0 Array

2003 Gaia Earth Sciences Limited
Operations & Petrophysical consultancy founded at request of IOCs to focus on WL & URD. GAQC

Logos: Apache, BHP, CGG, Enbridge, Equinor, Halliburton, INEOS, ITMCA, LUDG, NSNR, TALEX, YAGA, etc.



Online view with our new owl camera!

**“WIRELINING IN COMPLEX WELLS:
KEEPING WL ON THE TABLE”
WITH LEE HYSON OF GAIA EARTH GROUP**

CALL FOR SPEAKERS!

**Have a great topic that you
would like to present to NOGS
Members at a Monthly
Meeting?**

**Submit your topic and
presentation for our Program
Committee to review**

[CLICK HERE TO SUBMIT](#)



Carol Bartels St. Germain

1940 - 2024



Carol Bartels St. Germain passed away peacefully on Wednesday, January 31, 2024, at her home in Lakeview, following her courageous battle against Mantle Cell Lymphoma. Carol was a loving wife, mother, grandmother, sister, and friend. Born in New Orleans May 23, 1940, the eldest of the five children of Dr. Charles Frank Bartels and Ora Sarpy Bartels, Carol was preceded in death by her beloved husband of 37 years, Gilbert A. St. Germain; her brothers C. Raymond Bartels and Martin F. Bartels; and sister-in-law Gayle B. Bartels. She is survived by her children, Tracey Kissgen Patroliia (David), Cherie St. Germain Gentry (Joseph) and Michael Anthony St. Germain (Dixie); five grandchildren, Andrew David Patroliia, Emily Grace Patroliia Garza (Nic), Luke Christopher St. Germain, Chase Michael St. Germain, and Hope Marie St. Germain. She is also survived by her brother Ronald J. Bartels (June), her sister Betty B. Tedesco (Ken) and many cousins, nieces, and nephews. Carol was a lifelong resident of New Orleans and graduated from St. Mary's Dominican High School in 1958. She proudly pursued business training at Soule Business College. She thoroughly enjoyed her long career as a geologic secretary and right-hand assistant for many companies in the Louisiana oil and gas industry, including C&R Exploration, the Boebel Company, and the Society of Independent Professional Earth Scientists (SIPES). Carol lived a full and active life. Her love of New Orleans, Mardi Gras, Jazz Festival, and Cruises (especially Elvis Cruises) was well known. She was passionate about all sports, especially LSU and her beloved Saints, attending many games throughout her life. She loved attending concerts and the theatre and traveling with friends. Shopping and Casino outings, local fairs and lunches with her many friends were always fun. And of course, beach vacations with her beloved family were always tops on her list. She was a member and participated in Ladies Investing in Great Stocks (LEGS an investment group). She and Gilbert were members of The Socialytes for 50+ years; a group of 10 couples who played and traveled together and became family. She loved life and was blessed to live it with spirit and gusto!



George Donovan Severson

1932 - 2024

George Donovan Severson, 91, of Tulsa, OK, passed away peacefully January 17, 2024, with his family by his side. He will be greatly missed by all, but especially by his wife of 65 years, Joanne Susan Cech of Whiting, IN. George was born on April 2, 1932, to Linnie Fisher and Henry Spurr Severson in Tulsa, OK. His paternal grandparents, Olive and John S. Severson, helped to raise him. He graduated from Central High School in 1950, then attended Tulsa University (TU) to major in Geology. He left to serve in the Air Force during the Korean War (stationed in San Antonio, TX) and returned to TU, where he earned his Bachelor of Science and Master of Science degrees in Geology. TU is also where George met the love of his life, Joanne, and they married in 1959. In the early days of their marriage, George and Joanne traveled together through the Ouachita Mountains in a Volkswagen Beetle, gathering data for his master's thesis. After George graduated, they moved to Norman, OK where he worked for Texaco as a petroleum geologist. His growing family would move to Ardmore, OK, Lafayette, LA, and finally settle in New Orleans, LA, a place he called home for 53 years, before returning to Tulsa. George worked for Exchange Oil and Gas, Louisiana Land and Exploration Co., where he served as a Vice President, Freeport-McMoRan, and Severson Exploration Co. He received numerous awards and was a member of several professional organizations, including SIPES, AAPG and NOGS. George and Joanne had four children: Dianne E. Severson Head (Michael Head) and Judy A. Severson, both of Tulsa, OK, George F. Severson (Jaime Armitage) of Opelousas, LA, and Jennifer L. Severson of Livingston, MT. He is survived and missed dearly by his children and his four grandchildren, Jackson Head, Madeline Head, Lily Severson, and Henry Severson. He is also survived by his niece, Katherine Bynum Russell, her son Bynum Russell, and other family who affectionately called him "Uncle Bub." George loved a good joke and told many. He enjoyed loading his family into the station wagon and hitting the highway. Joanne made a thermos of coffee and George drove. Annual treks to Arkansas for Thanksgiving, Chicago for Christmas, and Yellowstone Park. One of his favorite destinations was Seagrove Beach, FL, where he soaked up the sun, jumped the waves, built bonfires, roasted hot dogs, and told jokes until the fire burned out. A diehard Saints fan, he took his kids to games where more often than not they endured disappointment. George and Joanne traveled the world, enjoyed going out for a great dinner, and dancing the night away with friends. When it was his turn for breakfast George made the world's best cinnamon toast and was known as a master at the grill. He never missed a chance to say: "I love you" and "drive safely." As a young father he told great bedtime stories. A favorite was of a Native American boy who must hunt to earn approval of his tribe. The boy swam under a flock of geese on the water slipping a tether to each webbed foot. As he rose to the surface, the geese clamored and rose to flight with the little boy holding on all the way home where he was welcomed as a hero. George was his family's hero. His friends would all agree he was incredibly kind, eternally patient, and a gentleman always. He will be buried near family at Park Grove Cemetery in Broken Arrow, OK. In lieu of flowers, the family requests donations be made to Running Strong for American Indian Youth, an organization close to his heart.

A funeral service will be held on 5th March, 5:00 PM at Saint Peter's Funeral Homes

A memorial service will be held at a later date.



Norris Conference Center



SCHOOL OF ROCK EXPERT GEOSCIENCE WITH A SOUNDTRACK

YOUR OPPORTUNITY TO SUPPORT LOCAL GEOLOGICAL COMMUNITIES

Our "School of ROCK, Expert Geoscience with a Soundtrack" themed conference will be one of the most relevant conferences in the Gulf Coast. "GEOGULF 2024" will be the 73rd Annual Meeting of the Gulf Coast Association of Geologic Societies and the Annual Gulf Coast AAPG Section Meeting. We will continue advancing subsurface exploration and research by expert professionals, young professionals and outstanding students. The technical program and vendor exhibits will encompass all subjects necessary for a prosperous future. Potential sessions include petroleum exploration (onshore, offshore, conventional and unconventional), critical minerals, AI/Data, hydrology, environmental/engineering and subsurface storage. The audience includes multinational corporations, small companies and independents. We anticipate meeting with 300-500 attendees. We are also planning unique events that should provide extra opportunities to be recognized. Publicity for Sponsors will be on our website, at the venue and via an unprecedented media presence.

POTENTIAL TECHNICAL SESSIONS

- Petroleum Exploration with Case Studies of Fields, Plays and Basins along the Gulf Coast
 - Onshore
 - Offshore
 - Conventional
 - Unconventional
 - Caribbean, Mexico
- Critical Minerals
- AI/Data Science and its Future with Geosciences
- Environmental Geology and Engineering
- Carbon Capture and Sequestration
- Seismic Imaging and Data Analytics
- Hydrology
- Geothermal

CONFERENCE HIGHLIGHTS

- Geologic Field Trips
- Short Courses
- Technical Sessions
- Networking Events

Please consider supporting this non-profit event that supports local geological communities! Sponsorship information below.

GENERAL SPONSORSHIP LEVELS

| LEVEL | AMOUNT | Transactions Ad | Complimentary Registrations to Entire Convention | Complimentary Passes to All-Convention Luncheon | Company Logo on Scrolling PowerPoint | Company Logo in Convention Program Book | Company Logo on Signs at Registration and Exhibit Hall Entrance | in Announcement on LinkedIn |
|----------|---------|--|--|---|--------------------------------------|---|---|-----------------------------|
| Diamond | 25,000+ | 2-page Composite Landscape, bleed, color | 5 | 4 | | | | Listed as "DIAMOND" |
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www.geogulf2024.org

<https://www.linkedin.com/in/south-texas-geological-society-7a3656218/>

Open call for **“ROCK”STARS!**



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APRIL 10-12, 2024

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- **Budget friendly** exhibitor pricing.
- **Tailored exhibit space** = more focused interactions with customers.
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Booth Pricing: \$1,500

• **All exhibit spaces are 10' x 10'**

• **1 full registration ticket 3 guest pass are included**

PRIZE FOR BEST ROCK/MUSIC THEMED BOOTH

Hit us up:

Exhibit Sales: Drew Kellar • drewkellar64@gmail.com

geogulf2024.org

CALL FOR ABSTRACTS!

Link to submit on www.geogulf2024.org

Deadline December 15, 2023



Win Dr. Shaley's Squier Guitar!!!

To enter you must submit an abstract by Dec. 15th and if it's accepted you will be included in a drawing at the 73rd annual GCAGS GCSSEPM Geogulf 2024 Conference themed, "SCHOOL OF ROCK, Expert Geology with a Soundtrack" in San Antonio on Friday afternoon on April 12! (Must attend and be present to win) We look forward to seeing everyone at our premier professional research and networking event. **Good luck!**

GEOGULF2024

SAN ANTONIO
10-12 APRIL 2024

CALLING ALL
"ROCK STARS"

Proposed Sessions



SCHOOL OF ROCK

EXPERT GEOSCIENCE WITH A SOUNDTRACK



Deep-water prospects of the onshore
New things to old fields in deep-water stratigraphic intervals
ML and AI to accelerate Gulf Coast development
Session hosted by the Pet. Structure and Geomechanics Div. (AAPG)
Eagleford and the Austin Chalk: Gifts that keep on giving!

Geologic carbon storage on the Gulf Coast (BEG GCCC)
Critical metals (and Lithium) exploration value chain
Session hosted by the Energy Mineral Division (AAPG)
East Texas petroleum exploration
University-industry collaboration, hydrology, geothermal,
"The Business of Petroleum", and many others!

Abstract Submissions: Abstract submission closes December 15, 2023. Visit geogulf2024.org to learn more about where to submit abstracts, guidelines, and attending **GeoGulf2024**.



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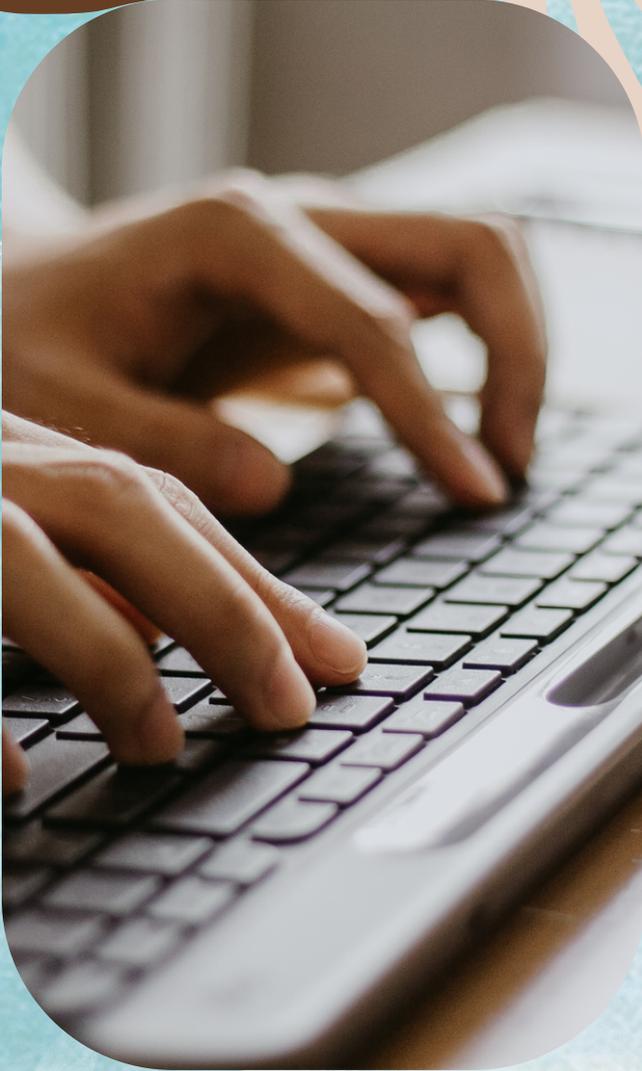
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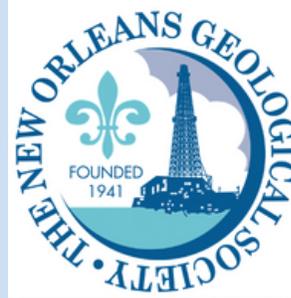
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