

MISSISSIPPI GEOLOGICAL SOCIETY *e*BULLETIN

Volume 73

No. 2

October 2024



SEPTEMBER SPEAKER

Toddy Guidry

Planning the Analytics for CCUS

2024 ANNUAL MEETING OF THE GSA

Dr. David Dockery III, RPG

MGS QUIZ

Steve Walkinshaw



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PRESIDENT'S LETTER



MGS Members,

Our thoughts are with the victims of Hurricane Helene and those affected by its aftermath.

We also want to thank James Starnes for his presentation at our September meeting on the recent viral discovery of a mammoth tusk in Madison County, as well as his insights into the Ice Ages in Mississippi.

Join us for our next meeting on October 9, 2024, at 11:30 AM at the River Hills Club in Jackson, Mississippi. We are pleased to welcome Toddy Guidry from Core Laboratories, who will present on "Planning the Analytics for CCUS, Waste Injection, Water Production, and Monitoring Wells." Toddy Guidry is a Senior Technical Advisor for Core Laboratories and an expert in reservoir fluids, with over 40 years of industry experience. He holds an MS in Mathematics from the University of Louisiana at Lafayette and oversees technical sales and corporate business development east of Texas.

Looking ahead, mark your calendars for November 13, when Dwayne Purvis will speak on the economic surprises of late-life production.

If you have a topic in mind or are interested in presenting at our meetings, please let me know. We're always on the lookout for speakers and subjects for our spring schedule.

Also, we want to remind you about the annual SPE Sporting Clay event at Providence Hill Farm on October 30. The cost for a four-man team with two golf carts is \$1,000. We're also seeking sponsors: 14 stations at \$200 each, meal sponsors, duck flurry sponsors for \$500, and door prizes. If you have any questions about registration, feel free to contact Bob Herr at 601-326-9432 or bherr@pruet.com, or reach out to Jenny Rodriguez at 601-718-9421 or jrodriguez@pruet.com. For sponsorship inquiries, you can contact Bob, Jenny, Ken Magee at 601-832-9476, or Jim Rawls at 601-946-2569.

Thank you for your ongoing commitment to the Mississippi Geological Society.

Jonathan R. Leard, RPG

MDEQ-Office of Geology

Surface Geology Division

Phone: (601)-961-5352

Website: <https://www.mdeq.ms.gov/geology/work-areas/surface-geology/>



2024-2025 MGS MEETING SCHEDULE

When	What/Who	Where
September 11	The Ice Ages in Mississippi - James Starnes	River Hills - 11:30am
October	Toddy Guidry - Core Lab	River Hills - 11:30am
November		River Hills - 11:30am
December		River Hills - 11:30am
January		River Hills - 11:30am
February		River Hills – 11:30am
March		River Hills – 11:30am
April		River Hills - 11:30am
May	Spring Fling	TBD

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[illegible]



SEPTEMBER SPEAKER

Toddy Guidry



Planning the Analytics for CCUS, Waste Injection, Water Production and Monitoring Wells

‘Non Oil and Gas Core Analysis’ has moved to the forefront of our industry not only for ecological solutions but also an additional tool for enhanced production. CO₂ sequestration in Louisiana, Water & Waste Disposal across North America, Water Production (lithium and bromide extraction) in Arkansas and Water Management and Monitoring Wells in Florida all require significant formation information and standard oil and gas core analysis techniques provide that info. Regulations are rightfully very strict and the analytical programs needed are very detailed and laborious. This presentation will provide an analytical outline to provide the datasets needed to obtain your ‘non oil and gas’ well permits!

Injectability/Extractability... Confinability... Compatibility!

Toddy Guidry, Core Laboratories

Toddy is Sr. Technical Advisor for Core Labs and their North American SME for Reservoir Fluids, based in Lafayette La. He also oversees technical sales, support and corporate business development east of Texas. Toddy has a MS in Mathematics from the University of Louisiana at Lafayette, and has been involved in the industry for over 40 years.

He can be reached in Lafayette at 337-837-8616,

toddy.guidry@corelab.com.



SPE CLAY SHOOT

Providence Hill Farm



Society of Petroleum Engineers

Mississippi Section

**SPE Sporting Clay Shoot
2024-2025 Officers and
Committee Chairmen**

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Pruet Production Co.

Sponsors/Door prizes

JIM RAWLS
Rawls Resources, Inc.

Volunteers and Sponsors

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The 2024 Officers of the Mississippi Section of the Society of Petroleum Engineers are pleased to announce that we are holding our **19th Annual SPE Sporting Clays Shoot** on **Wednesday, October 30, 2024 at Providence Hill Farm**. Proceeds will fund the SPE Scholarship program for students from Mississippi studying engineering at area universities.

- The shoot will be filled on a first-come, first-serve basis. The field will be limited to twenty-five, four-man teams or 100 total shooters, so mail entries with payments as soon as possible. Entry form deadline is **OCTOBER 18, 2024**.
- Entry Fee: **\$850** per team includes challenge of a fifty-six (56) bird sporting clay course, lunch and refreshments.
- Included with entry fee will be the opportunity for each shooter to shoot a round at the 70 target Duck Flurry. Bring two (2) extra boxes of shells for this exciting event.
- Golf carts (two-two man carts per team) will be made available at a cost of \$150. Golf cart fee will need to be paid with registration to insure availability. Please feel free to bring your own. **NOTE THAT THE COURSE IS VERY SPREAD OUT. BRING OR RENT A RIDE OR BE PREPARED FOR A LONG HIKE.**
- Location: **Providence Hill Farm** (map enclosed).
- Please make checks payable to "SPE" and mail to **Bob Herr, 217 West Capitol Street, Jackson, MS 39201**. (TOTAL Amount for 4-man team and two carts is \$1,000.00)

**SPE 2024-2025
Mississippi Section Officers**

Chairman

BOB HERR
Pruet Production Co.

Program Chairman

KEN MAGEE
Spooner Petroleum

Scholarship Chairman

BOB HERR
Pruet Production Co.

Secretary/Treasurer

BOB HERR
Pruet Production Co.

Schedule:

10:30	Registration and check-in begin
11:00-12:00	Lunch and introduction
12:00	Begin clay course w/ Duck flush as station
2:30	Conclude course, door prizes, and award ceremony

Shooters **must provide their own shells** (2-3/4" #7-1/2, #8 or #9 shot only, maximum of 3 dram equivalent). Also please remember that **eye and ear protection is mandatory at all times while on the shooting course**. If your team is not filled out completely, indicate that remaining shooters will be determined or needed. Enclosed are the necessary forms for entry

An awards ceremony and social will be held immediately following the competition. Awards will be presented to the 1st place team. Several sporting related door prizes will be given away during the social. Shooters must be present to win.

Shooting station sponsors (\$200)- 14 stations, Duck Flurry sponsor (\$500), and meal sponsor are being solicited and will be recognized for their financial support. Any interested sponsors should contact Ken Magee at 601-969-1831 or Jim Rawls at 601-946-2569 (door prize sponsorship). Any non-shooting volunteers will be welcomed and greatly appreciated and should contact Jenny Rodriguez at 601-718-9421(jrodriguez@pruet.com). General questions regarding the shoot can be directed to Bob Herr at 601-326-9432(bherr@pruet.com) or Jenny Rodriguez at 601-718-9421(jrodriguez@pruet.com).

Please be reminded that this is an adult event and no children under the age of 18 will be permitted on the premise. We are looking forward to getting together with our oilfield colleagues for a day of fun and fellowship!

Society of Petroleum Engineers, Mississippi Section, Sporting Clays Shoot

Wednesday, October 30, 2024

ENTRY FORM (4-man Team)

TEAM CAPTAIN _____

Company _____

Address _____

City/State/Zip _____

Phone Number _____

E-MAIL: _____

Main Event @ \$850/team

Station Sponsor@ \$200 _____

Duck Flurry Sponsor@ \$500 _____

Meal Sponsor@TBD _____

Golf Cart Rental

(\$150 per team for two 2-person carts)

Yes _____

No _____

If yes, please include payment with entry form.

TOTAL AMOUNT WITH CARTS=

\$1,000.00

WITH NO CARTS= \$850.00

Please make check payable to: SPE

Mail to: Bob Herr
217 West Capitol St.
Jackson, MS 39201

**PLEASE BE ADVISED THAT THIS IS A RAIN
OR SHINE EVENT.**

**REMEMBER TO BRING EAR AND EYE
PROTECTION—THESE ARE MANDATORY**

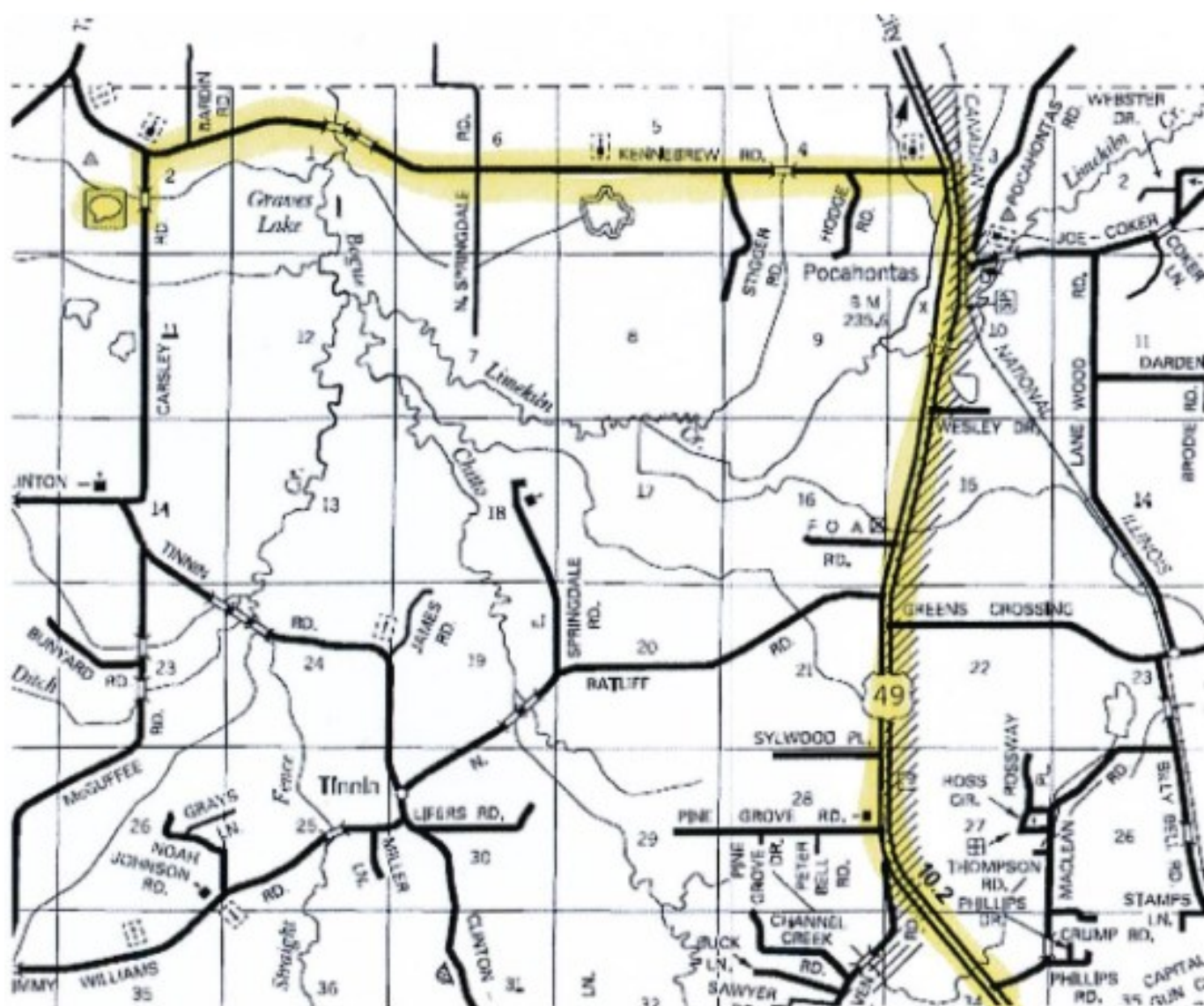
Entry Deadline October 18, 2024

WITH PAYMENT

TOTAL REGISTRATION PAYMENT FOR TEAM: _____

Directions to 2024; SPE Clay Shoot Providence Hill Farm Pocahontas, MS

From I-220, take Hwy 49 N (toward Yazoo City) for 9.5 miles (1/2 mile north of Pocahontas) and turn left on Kennebrew Road. Go 5 miles and turn left on Carsley Road. Go 0.5 mile and turn right into Providence Hill Facility.





CURRENT PRICES

Market Watch

Crude Oil WTI (NYM \$/bbl) Front Month

[+ WATCHLIST](#)

☀ OPEN

Last Updated: Oct 8, 2024 at 10:32 a.m. EDT - Delayed quote

\$ **73.54**

▼ -3.60 -4.67%

SETTLEMENT PRICE 10/07/2024

\$77.14

< Advanced Charting 1M ▼ \$ % VOL



Natural Gas Continuous Contract

[+ WATCHLIST](#)

☀ OPEN

Last Updated: Oct 8, 2024 at 10:33 a.m. EDT - Delayed quote

\$ **2.738**

▼ -0.008 -0.29%

SETTLEMENT PRICE 10/07/2024

\$2.746

< Advanced Charting 1M ▼ \$ % VOL





Clovelly Oil Co. LLC

Joseph R. Johnson Jr.
Vice-President Exploration

Three Lakeway
Suite 3360
3838 N. Causeway Blvd.
Metairie, LA 70002

Office: (504)-522-7496
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Petroleum Geologist

8505 Dogwood Trail
Haughton, LA 71037
318-423-9828
Joerjrw@gmail.com

AAPG CPG #5580
MS RPG #0097
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Available for Consulting



MONTHLY POST

Dr. David Dockery III RPG

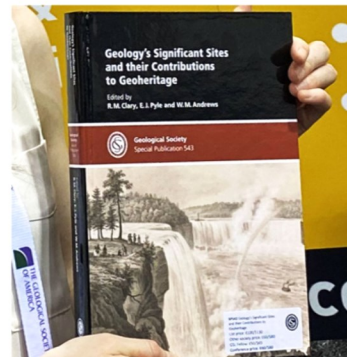
THE 2024 ANNUAL MEETING OF THE GEOLOGICAL SOCIETY OF AMERICA IN ANAHEIM, CALIFORNIA, SEPTEMBER 22-25.

David T. Dockery III, RPG

I attend the annual meetings of GSA as it is also the site of the Mid-Year Meeting of the Association of American State Geologists and the site of the Annual Meeting of the North American Commission on Stratigraphic Nomenclature on which I serve as Commissioner along with two other AASG members. The annual GSA meeting is the place you stand a chance of finding any geologist from anywhere as the organization has a membership of 22,000 representing 115 countries. So here are some of the people I met there, who have contributed to the geology of our state. First, in the upper left of Figure 1, is Don Prothero with Carolyn. Don is a paleontologist who specializes in mammalian paleontology and magnetostratigraphy (Wikipedia) and is the author of many books. He was an organizer of the 1999 GSA Penrose Conference in Olympia, Washington, on the Eocene-Oligocene boundary. It was at this meeting that several papers on cores the Office of Geology drilled for ARCO and Mobil sequence stratigraphers across that boundary in Mississippi were given and later published in a volume entitled *From Greenhouse to Icehouse, the Marine Eocene-Oligocene Transition* (Chapters 11, 15, and 18) by Columbia University Press in 2003 (Prothero, ed.). Pierre Lozouet, paleontologist at the French Museum of Natural History, and I wrote a paper (Chapter 18) in that volume on the *Molluscan Faunas Across the Eocene/Oligocene Boundary*. In the upper right of Figure 1 are Athena Owen Nagel and Renee Clary of Mississippi State University with Carolyn. Renee attended a conference in London on geoheritage sites where she presented geoheritage sites in Mississippi. One of those sites was the Moodys Branch Formation at Town Creek in Jackson, Mississippi, a site visited Charles Lyell in 1846. Now Renee's paper is published in a new book promoted The Geological Society of London at this year's GSA meeting entitled *Geology's Significant Sites and their Contributions of Geoheritage* (Figure 1, at bottom).



Figure 1





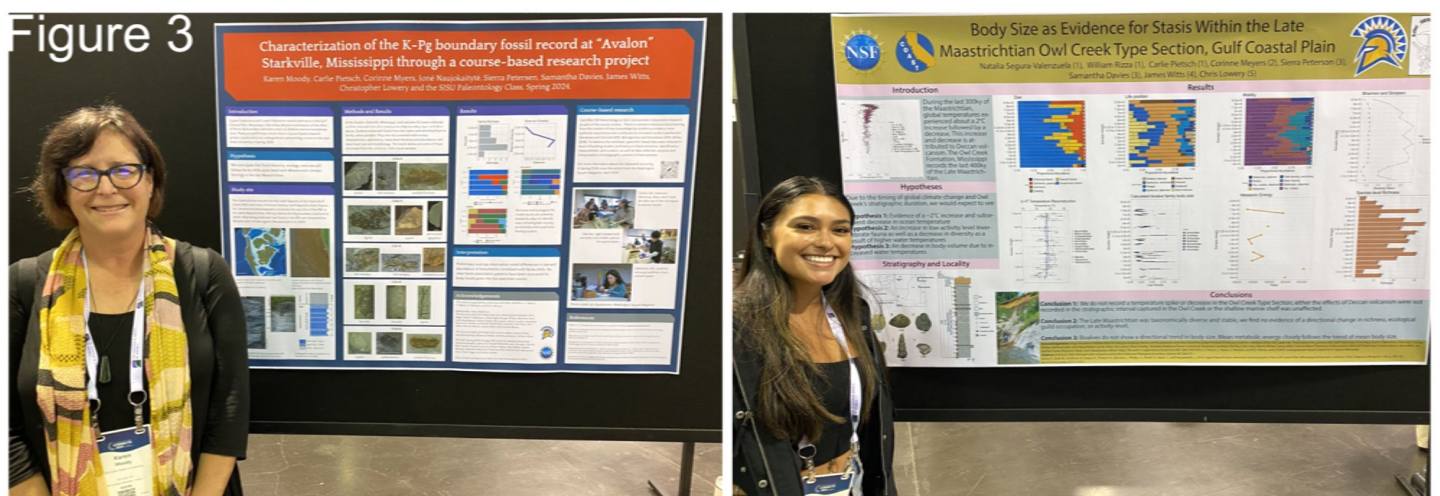
MONTHLY POST

Dr. David Dockery III RPG

Figure 2 at left shows the AASG Mid-Year Meeting of State Geologists with some members present by Zoom Meeting. At the microphone is Matt Morgan, State Geologist of Colorado. Standing at the tables is Nick Tew, State Geologist of Alabama. At right in Figure 2 is the meeting of the North American Commission on Stratigraphic Nomenclature. Members were present in person and by Zoom Meeting, especially for members representing Central and South America. The Commission voted to consider a modification of its name to reflect its expanded representation. Another item on the Commission's agenda was the inclusion of aquifer nomenclature within the Code. One reason for broadening the Code is that science writers and editors refer to the Code when writing or editing peer reviewed papers.



Of the hundreds of posters in the poster sessions, some were about Mississippi as presented by California students. In Figure 3 at right, Karen Moody of San Jose State University is standing by her poster on the Cretaceous-Tertiary boundary in Starkville, Mississippi. I helped her professor Carlie Pietsch (also named on the poster) with her study of Mississippi and Alabama Eocene fossils in our collections years ago, and Carlie was a student of Linda Ivany at Syracuse University, who I also helped with Mississippi fossils (small world). Also associated with Pietsch at San Jose is Natalia Segura-Valenzuela below at right with a poster of fossils from the Cretaceous Owl Creek Type Locality in Mississippi.

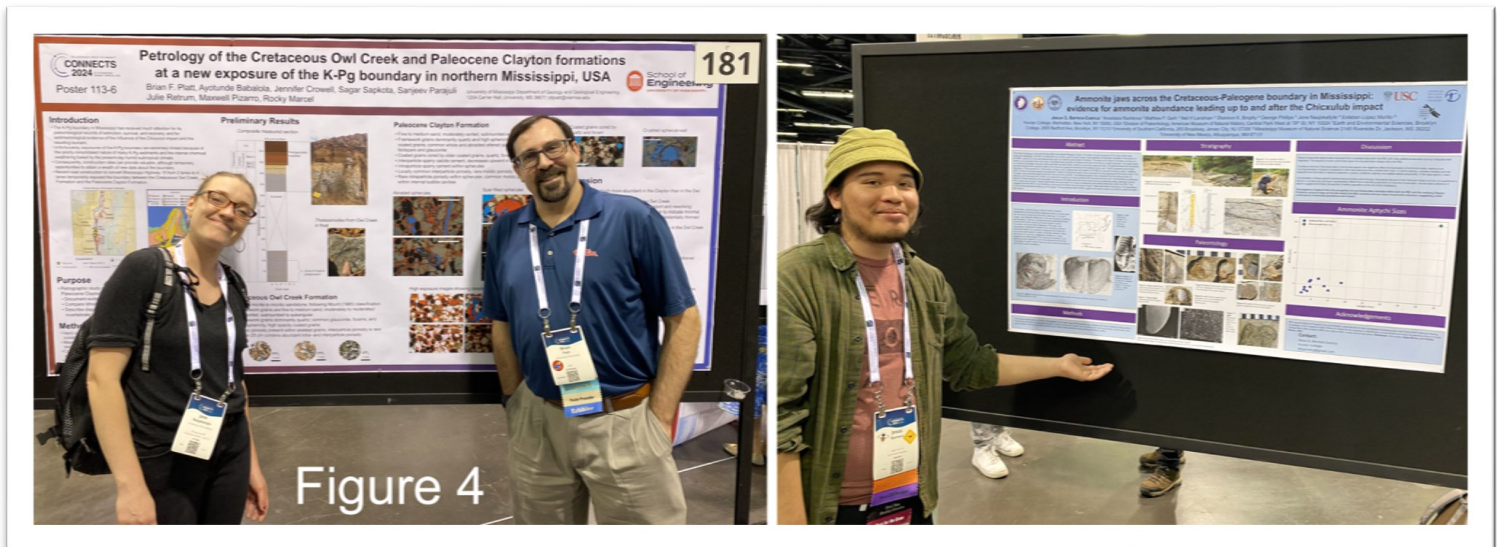




MONTHLY POST

Dr. David Dockery III RPG

Figure 4 contains two additional posters on the Cretaceous-Tertiary boundary in Mississippi. The one at left is by Ole Miss Professor Brian Platt and others on a new exposure of the K-Pg boundary in northern Mississippi. Brian is answering questions from Jone Naujokaityte of the University of New Mexico. At right is a poster on ammonite jaws across the Cretaceous-Paleogene boundary in Mississippi presented by Jesus Barrera-Cuenca from Hunter College, Manhattan, New York.





GEOLOGY POST

ARTICLES, PAPERS or NEWS?

ATTENTION!!!!!! Industry, Professors and Students:

I am looking for more content from the industry and our schools.

Submissions can include anything from professional papers, thesis abstracts, job opportunities to pictures. Anything!!!!

If you have any information or news you would like to share with the Society **PLEASE** email them to the MGS Editor at:

mcaton13@yahoo.com

Thanks & Regards,

Matt Caton
Editor



MGS QUIZ

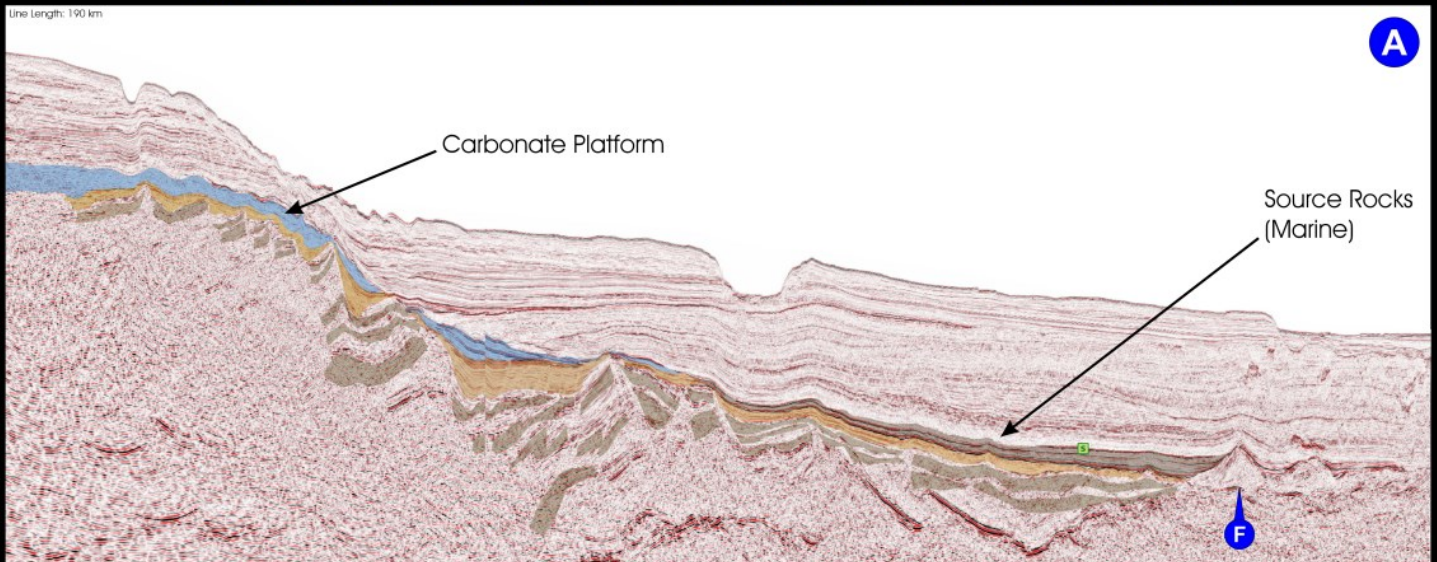
Steve Walkinshaw

Oil patch quiz time. This country has the second longest coastline on its continent, and hosts six major sedimentary basins. An ancient dune field here is more than 600 miles long.

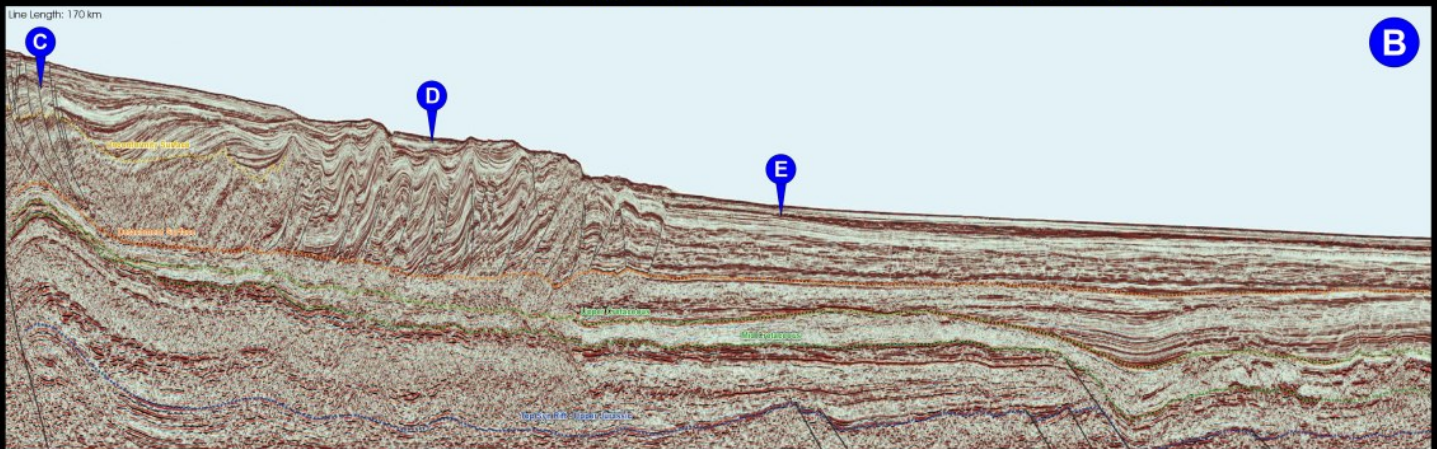
Geopolitical strife has long delayed oil and gas development in this country. The recent lessening of turmoil and offshore discoveries in neighboring countries have renewed interest in its oil and gas potential, especially offshore.

Two recently-acquired 2D seismic lines are shown. These lines are 190 km ("A") and 170 km ("B") long. A number of compelling structural and stratigraphic features are evident.

2D SEISMIC LINE - OFFSHORE AREA OF THIS COUNTRY (NORTH)



2D SEISMIC LINE - OFFSHORE AREA OF THIS COUNTRY (SOUTH)





MGS QUIZ

Steve Walkinshaw

Questions...

Part 1: What country am I referring to?

Part 2: What are the names of its 3 most prospective coastal/offshore basins?

Part 3: (Subjective) Based on the seismic data, what is the most likely composition of the structure labeled "F"?

Part 4: (Subjective) What was the most likely depositional environment for the marine source rocks shaded gray-tan, in the central part of 2D Line "A"?

Part 5: (Subjective) What is the most likely cause of the extensional events labeled "C"?

Part 6: (Subjective) What is the most likely cause of the compressional events labeled "D"?

Bonus:

Part 7: What is the informal name given to the area of the continent where this country is located?

ANSWERS AT END OF BULLETIN

GEO LINK POST

USGS TAPESTRY OF TIME AND TERRAIN <http://tapestry.usgs.gov> The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out—it is a spectacular map. You might want a framed one for your own office. The one in my office has glass and a metal frame, and it cost \$400 and it does not look as good as the ones we are giving to the schools. Call Owen 510-6224 if you want one for your office for \$150. Duncan, Mike, Chris, Dave, Bob Randy, Seb., Kevin, Ken, Craig, Patrick, Robert.

FREE TEXAS TOPO'S <http://www.tnris.state.tx.us/digital.htm> these are TIFF files from your state government that can be downloaded and printed. You can add them to SMT by converting them first in Globalmapper. Other digital data as well.

FREE NATIONAL TOPO'S [http://store.usgs.gov/b2c_usgs/b2c/start/\(xcm=r3standardpitrex_prd\)/.do](http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do) go to this webpage and look on the extreme right side to the box titled TOPO MAPS DOWNLOAD TOPO MAPS FREE.

<http://www.geographynetwork.com/> Go here and try their top 5 map services. My favorite is 'USGS Elevation Date.' Zoom in on your favorite places and see great shaded relief images. One of my favorites is the Great Sand Dunes National Park in south central Colorado. Nice Dunes.

<http://antwrp.gsfc.nasa.gov/apod/astropix.html> Astronomy picture of the day — awesome. I click this page everyday.

<http://www.spacimaging.com/gallery/ioweek/iow.htm> Amazing satellite images. Check out the gallery.

<http://www.ngdc.noaa.gov/seg/topo/globegal.shtml> More great maps to share with kids and students.

www.geo.org Don't forget we have our own web page.

<http://micro.magneet.fsu.edu/primer/java/scienceoptiscu/owersofl0/>

<http://asterweb.jpl.nasa.gov/galery/default.htm> Great satellite images of volcanoes

<http://terra.nasa.gov/gallery/> More here

www.ermapper.com They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

www.drillinginfo.com This is an incredible (subscription) well and completion data service for independents. Can be demo'ed for free.

<http://terraserver.com/> Go here to download free aerial photo images that can be plotted under your digital land and well data. Images down to 1 meter resolution, searchable by Lat Long coordinate. Useful for resolving well location questions.

<http://www.fs.fed.us/gpnmf/volcanocams/msh/> This is a live cam of Mt. St. Helens refreshed every 5 minutes. At the bottom are old videos of past eruptions in this cycle. It is worth a watch especially now.



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MISSISSIPPI GEOLOGICAL SOCIETY

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2024-2025

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September 2024 – May 2025

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Full Page Ad (6" x 8")	\$500	\$ _____
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1/4 Page Ad (3" x 4")	\$200	\$ _____
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Professional Listing (1/2" x 3")	\$ 50	\$ _____

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Second Page Banner Ad	\$250	\$ _____
Professional Listing/Link	\$100	\$ _____

(Note: Please contact Steve Walkinshaw at (601) 607-3227 or mail@visionexploration.com for details concerning placing your ad on the MGS web site.)

Total Remitted \$ _____

Please make checks payable to the Mississippi Geological Society. If you have any questions, contact Matt Caton at (601) 898-7444 or mcaton@tellusoperating.com



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1979-1980	Philip R. Reeves	2020-2023	David Snodgrass
		2023-Present	Jonathan Leard



MGS QUIZ

Steve Walkinshaw

Answers:

Part 1: What country am I referring to? Somalia

Part 2: What are the names of its 3 most prospective coastal/offshore basins? Juba-Lamu, Cariole, and Obbia

Part 3: (Subjective) Based on the seismic data, what is the most likely composition of the structure labeled "F"? It appears to be a volcano, presumably a stratovolcano, which formed on the periphery of the adjacent rift

Part 4: (Subjective) What was the most likely depositional environment for the marine source rocks shaded gray-tan, in the central part of 2D Line "A"? a rift basin, perhaps restricted somewhat

Part 5: (Subjective) What is the most likely cause of the extensional events labeled "C"? coastward extension caused by movement along a detachment surface / decollement

Part 6: (Subjective) What is the most likely cause of the compressional events labeled "D"? gravity-slide tectonics; friction and compression along the detachment surface / decollement

Part 7: What is the informal name given to the area of the continent where this country is located? the Horn of Africa