

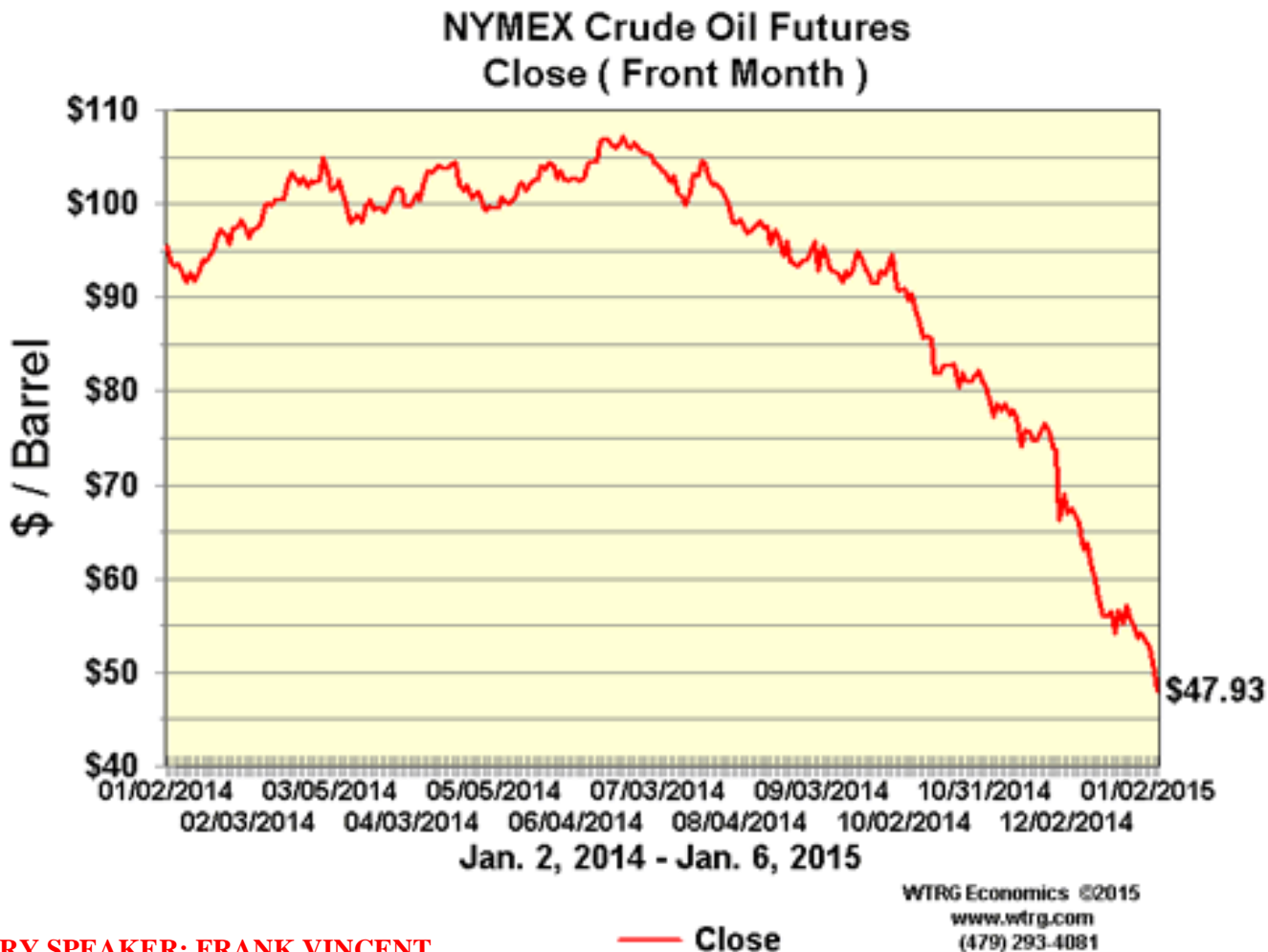
MISSISSIPPI GEOLOGICAL SOCIETY

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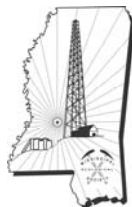
January 2015



JANUARY SPEAKER: FRANK VINCENT
SHALLOW OIL "RE-DISCOVERY" AT WASHINGTON FIELD

DAVID E. THOMPSON RETIREMENT
AND CONTRIBUTIONS TO GEOLOGIC MAPPING IN MISSISSIPPI

UNIVERSITY OF MISSISSIPPI:
THE TUSCALOOSA MARINE SHALE



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PRESIDENT'S LETTER

Ezat Heydari



Happy New Year!

I hope that your Christmas holiday was full of joy. I look forward to another wonderful year with the Mississippi Geological Society.

We had a very lively Officer's meeting in December of last year. One topic came up which is of interest to all of us. The issue was how to preserve Society's historical records, currently held by Stanley King in hard copy forms. The diversity of ideas among the Officers was impressive. One leading suggestion was to scan and turn them into digital documents and make them freely available to interested individuals. However, the logistics of getting this done was not that clear. Due to the lack of time we decided to allocate our next luncheon on this topic.

The implication of this issue is very broad. By now we know that content is king. However, easy access to content is the king of kings. Is it possible to gather digital copies of information related to the geology of Mississippi in one place and easily accessible to all?

I think it is. At least some of this effort is currently in progress. It is truly a pleasure to know that the Mississippi Office Geology has already started this task. They have scanned most of their publications into PDF which are freely available on their website. It is wonderful to have access to some of the most fundamental information about the geology of Mississippi practically at your figure tips. Every time I scan through some of the county bulletins prepared and published by the Mississippi State Geological Survey I become full of gratitude to the Mississippi Office Geology which made this possible. These original works are gold mines as related to the geology of Mississippi.

Perhaps, it is possible to gather and to preserve all available data about the surface and subsurface Geology of Mississippi and make them easily accessible to all. Certainly not an easy job but it is worth considering.

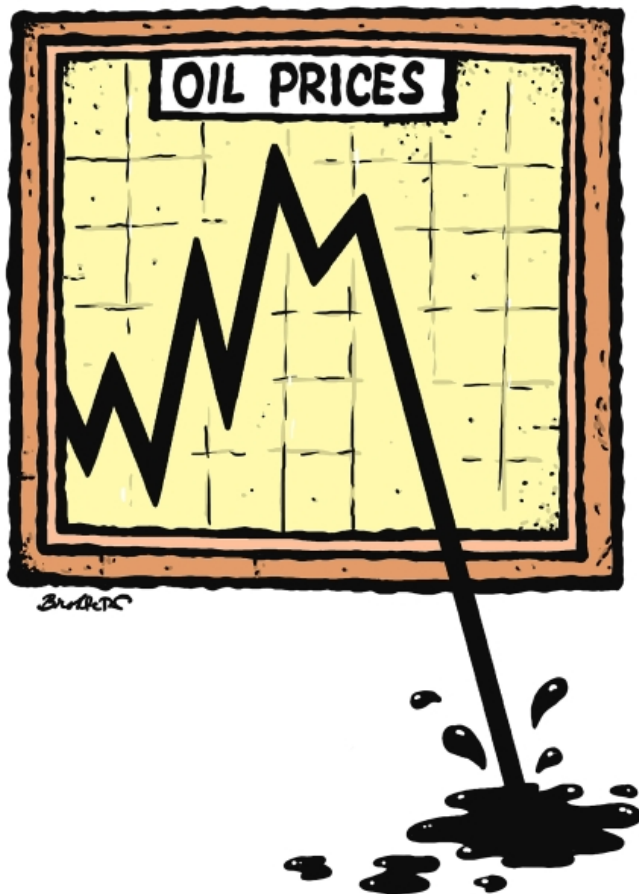
I look forward to see you on Thursday for our first Luncheon of 2015. For me, listening to a good, thought-provoking talk is the minimum when attending our monthly meetings. Seeing all of you again is the true delight of such gatherings.

Regards,

Ezat

2013-2014 MGS MEETING SCHEDULE

When	What/Who	Where
September 11, 2014	Fall BBQ	Jackson Yacht Club-5:30pm
October 9, 2014	John Allen Tuscaloosa Marine Shale	River Hills – 11:30am
November 13, 2014	Carl Fiduk Tectonics and Depositional Episodes of the GOM	River Hills – 11:30am
December 5, 2014	MAPL Christmas Party and Dance	Duling Hall - 7pm
January 8, 2015	Frank Vincent Shallow Oil “Re-Discovery” at Washington Field	River Hills – 11:30am
February 12, 2015	TBD	River Hills – 11:30am
March 12, 2015	TBD	River Hills – 11:30am
April 9, 2015	Boland Scholarship Awards	River Hills – 11:30am
May 14, 2015	Spring Fling	Jackson Yacht Club– 5:30pm



OFFICERS MEETINGS

September 4, 2014
October 7, 2014
November 11, 2014
January 6, 2015
February 10, 2015
March 10, 2015
April 7, 2015
May 12, 2015



JANUARY SPEAKER

Frank Vincent

Frank S. Vincent

Frank S. Vincent is a native of Hattiesburg, Mississippi and received his B.S. with a double-major in Geology and Biology in 1971 from the University of Southern Mississippi. He earned his M.S. in Geology in 1975 at Louisiana State University in Baton Rouge.

Mr. Vincent has over 40 years extensive experience as an Exploration, Production, and Evaluation Geologist in the Gulf Coast onshore and offshore, Permian Basin, ArkLaTex, Mid-Continent, and Southern & Central Rockies areas. He previously worked with ARCO, ENTEX, Caddo–Lyons Petroleum, and since 1982 has consulted for over 30 separate companies and partnerships as an Independent Consulting Senior Geologist while residing mostly in Lafayette, Louisiana, but also spent 5 years in Albuquerque, New Mexico, where he was Exploration Manager for Chace Oil Company. He is the President of Upstart Exploration, Inc., in Lafayette, Louisiana.

Mr. Vincent is a Certified Petroleum Geologist as a member of the American Association of Petroleum Geologists, a former AAPG Delegate representing the Albuquerque Geological Society, and has served as President, Vice-President (twice), Director (three times) of the Lafayette Geological Society, and is an active member in a number of other professional Geological societies.



JANUARY SPEAKER

Frank Vincent

Shallow Oil “Re-Discovery” at Washington Field: New Life from Abandoned, Thin, Multi-Pay, Mid-Frio Zones

Frank S. Vincent

Key Operating Company, 120 Oil Center Dr., Ste. 104, Lafayette, LA 70503

ABSTRACT

Washington Field in central St. Landry Parish, Louisiana, was discovered by Sohio in January 1952 and had produced to cessation in mid-1990's a total of 330 BCFG + 38 MMBL from upper Wilcox, Cockfield “B” and “D” sand intervals, and multiple thin pays in the shallower Oligocene middle-Frio sands section. All original production was spread over 8,000-plus productive acres.

The established mid-Frio sands section between -6,800' to -7,900'± ss contains at least 10 to possibly 12 thin oil-productive sand levels, and these had already accounted for 16 MMBO plus 35 BCFG plus large amounts of salt water (re-injected) produced by the mid-1990's. All mid-Frio oil came from very-gentle, low-relief, 20 to 80+ acre closures arrayed West-to-East along length of the axial crest of the structurally simple Washington Field Rollover Anticline and downthrown to the regional Washington Field Fault. Multiple pays exist in more-or-less aligned and stacked separate four-way gentle closures - occasionally with some stratigraphic complexity, and include viable attic reserves “slightly above” previously perforated and produced intervals. Economically viable thin-pay oil sections have ranged from a low of 3 feet up to a field-wide maximum observed 22 feet of oil column on water.

Reactivated mid-Frio oil sands have produced approximately 260,000 BO (Jan. 2015) since our first #2 well began production in October 2008. There are at present 5 new oilwells in the field with 3 currently active, 1 waiting on recompletion, and 1 very necessary SWDW.

This simple “Play Type” is well suited for the individual independent geologist or smaller company who is looking in older (mostly-) abandoned fields to explore in “the shallower reaches” or for companies who have established deeper production and have observed thin tell-tale logged sand-top resistivities uphole (in high porosity / high permeability sands) that are high but seem “slightly off” the low-relief structural crest. Also, this “Play Type” especially represents an opportunity to find reserves in older fields where there is no 3D available, but where there is enough “minimal” well-log control to build a closely-spaced series of sand-top structure maps using finer contour intervals of 10, 20, or at most 25 feet. Success requires much meticulous subsurface well-log analysis and production history work while constructing numerous sand-top structure maps paying close attention to all of the smallest details.



GULF COAST ASSOCIATION OF GEOLOGICAL SOCIETIES

www.gcags.org



1. 65th Annual Convention and Exhibition hosted by the Houston Geological Society, Sept 20-22, 2015, George R. Brown Conv. Center, Houston, Texas

Paper themes:

- New Oil and Gas Discoveries
- Un-Conventional Plays
- Development Field Studies
- GOM Shelf and Onshore Plays
- Salt Tectonics and Traps
- Mexico and Caribbean Plays
- Gulf of Mexico Deepwater
- Environmental Geology
- Coastal Geology and Surface Impact
- Geology-Geophysics-Engineering
- Portfolio Management
- Geophysical Technology

Call for Papers deadline December 13, 2014 webpage: www.gcagshouston.com or contact Linda Sternbach, Technical Program Chair, at linda.sternbach@gmail.com.

2. Society Representative on the GCAGS Board of Directors: The Gulf Coast Association of Geological Societies (GCAGS) has 13 affiliated societies. The affiliated societies are the core of the GCAGS. The President of each affiliated society (or his or her representative) is a voting member of the GCAGS Board of Directors. As such, the societies have a strong voice in the decisions made by the GCAGS Board of Directors.

3. AAPG Advisory Council Representation: The Gulf Coast Section is the largest AAPG Section with close to 9000 members. Because of its size, the GCAGS has two Advisory Council Section Representatives while the other Sections have only one. "The AAPG Advisory Council serves in an advisory capacity to the AAPG Executive Committee. They report on matters involving ethics and discipline, long-range planning, constitutional review, nominations for officers and honors and awards and other special projects as requested by the Executive Committee."

4. GCAGS Student and Faculty Grants: Each year the GCAGS awards \$20,000 in scholarship grant money to approximately 20 deserving graduate or PhD students in the Gulf Coast area. In addition, the GCAGS awards \$10,000 to two faculty members to support their research on Gulf Coast geology.

GCAGS PRESIDENT Charles Sternbach ☐ 281-679-7333 carbodude@gmail.com	GCAGS VICE PRESIDENT Brent Hopkins 361-884-8824 brenth@suemaur.com	GCAGS PAST PRESIDENT Mary Broussard 337-354-5041 Mary_Broussard@fmi.com
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5. GCAGS Scholarship Fund Matching Program: The GCAGS periodically initiates a Scholarship Fund-Matching Program for the societies. This is a great opportunity for the societies to double the value of donations going to their scholarship foundations, and in turn, help deserving geoscience students in their local areas. The total value of the donations from the GCAGS is \$195,500.

6. Travel to Student Chapter Leadership Summit: Each year the GCAGS provides \$1000 in support for student travel to the AAPG Student Chapter Leadership Summit. Summit attendees participate in training, interact with AAPG leadership, and establish mentoring relationships.

7. Advertising: Every year each GCAGS Affiliated Society receives a free ¼ page of advertising space (black & white) in the AAPG Explorer.

8. Sponsorship of Section Level Imperial Barrel Award Competition: If sufficient corporate funding is not raised, the GCAGS will donate \$5000 (on an annual basis) to sponsor the Gulf Coast Section IBA competition. The GCAGS also volunteers to host the Gulf Coast Section university IBA teams and administer the entire event including one-day training for all participants. The IBA program is hugely popular with the students and industry support has grown immensely over the last few years. Two Gulf Coast Universities have won the Global IBA competition: The University of Texas, Austin (1 victory), and the University of Louisiana, Lafayette (2 victories).

9. Honors and Awards: Every year members of GCAGS' affiliated societies are nominated by their peers for awards for their service and accomplishments at the Society, Section and the National AAPG levels. Winners are recognized with an award plaque at the GCAGS Convention.

10. Teacher of the Year Award: In addition to an award plaque, the GCAGS gives the winner of the Owen R. Hopkins Outstanding Earth Science Teacher Award \$2000 (\$1500 for personal use and \$500 for use by their school) and an expense paid trip to the Annual GCAGS Convention.

11. GCAGS Transactions: Professional registrants for the GCAGS Convention receive an electronic version (CD, flash drive) of the GCAGS *Transactions* with their registration fee.

12. GCAGS Journal: The *GCAGS Journal* is a peer-reviewed premier publication dedicated to Gulf Coast geoscience research and concepts, Contact Barry J. Katz BarryKatz@chevron.com

13. WWW.GCAGS.ORG: The GCAGS website is linked to local society websites. New material, comments, updates, etc. are welcome.

14. Social Media, ability to send out updates on GCAGS events, contact Dianna Phu dianna.phu@intecsea.com



MGS MONTHLY COLUMN

David T. Dockery III, RPG

DAVID E. THOMPSON'S RETIREMENT AND CONTRIBUTIONS TO GEOLOGIC MAPPING IN MISSISSIPPI

A reception was held for David Thompson on November 25, 2014, at MDEQ's 700 Building before his retirement at the end of the month (figures 1-2).



Figure 1. David Thompson's retirement reception, November 25, 2014.



MGS MONTHLY COLUMN

David T. Dockery III, RPG



Figure 2. Brenda Cook, Janice Alewine, and David Thompson, and cake.



MGS MONTHLY COLUMN

David T. Dockery III, RPG

Upon retirement he took a job with Plum Creek Timber. Thompson joined MDEQ's Surface Geology Division of the Office of Geology on March 2, 1992, a move from the office's Mining Division. That same month, during a visit to the Carnegie Museum of Natural History's excavation site in Meridian, Mississippi, plans were set into motion to publish a volume on *The Geology of Mississippi* (in press, University Press of Mississippi) of which Thompson and I would be authors. During his tenure with the Surface Geology Division, Thompson published seventy six 7.5-minute quadrangle geologic maps at a scale of 1:24,000 and the Holly Springs 30° x 60° Geologic Map at a scale of 1:100,000. Thompson's surface geologic maps included the footprints of the Red Hills Lignite Mine and the Liberty Lignite Mine at the time the mine applications were submitted (Figure 3).

Old geologic mapping located lignite mining regions on a thick, undifferentiated sequence of sediments.

New detailed mapping places lignite mining regions in discrete geologic units and allows for recognition of additional deposits.

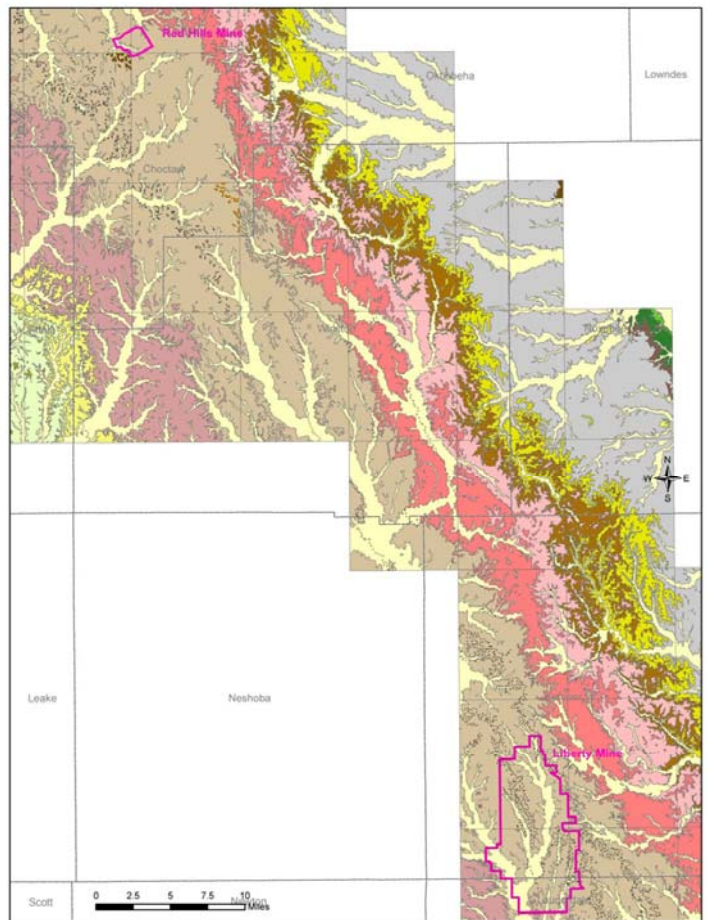
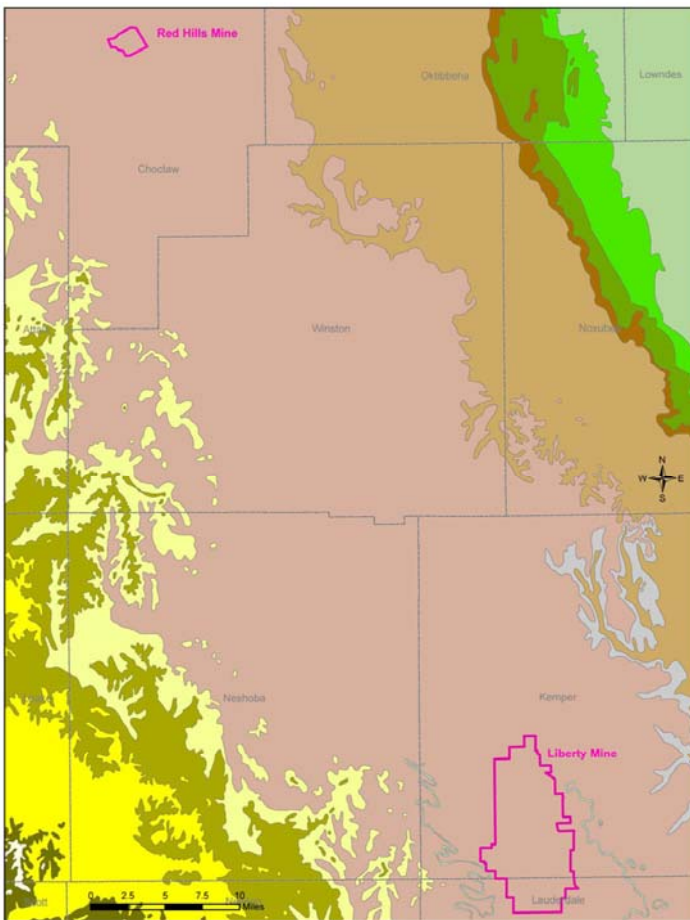


Figure 3. Left, the 1969 Geologic Map of Mississippi at a scale of 1:500,000, with mine sites shown. Right, recent detailed 7.5-minute quadrangle geologic maps at a scale of 1:24,000, showing mine sites.



MGS MONTHLY COLUMN

David T. Dockery III, RPG

The geology sections of these applications included Thompson's stratigraphy of the major lignite seams. A correlation of the seams between the two mines is given in Figure 4.

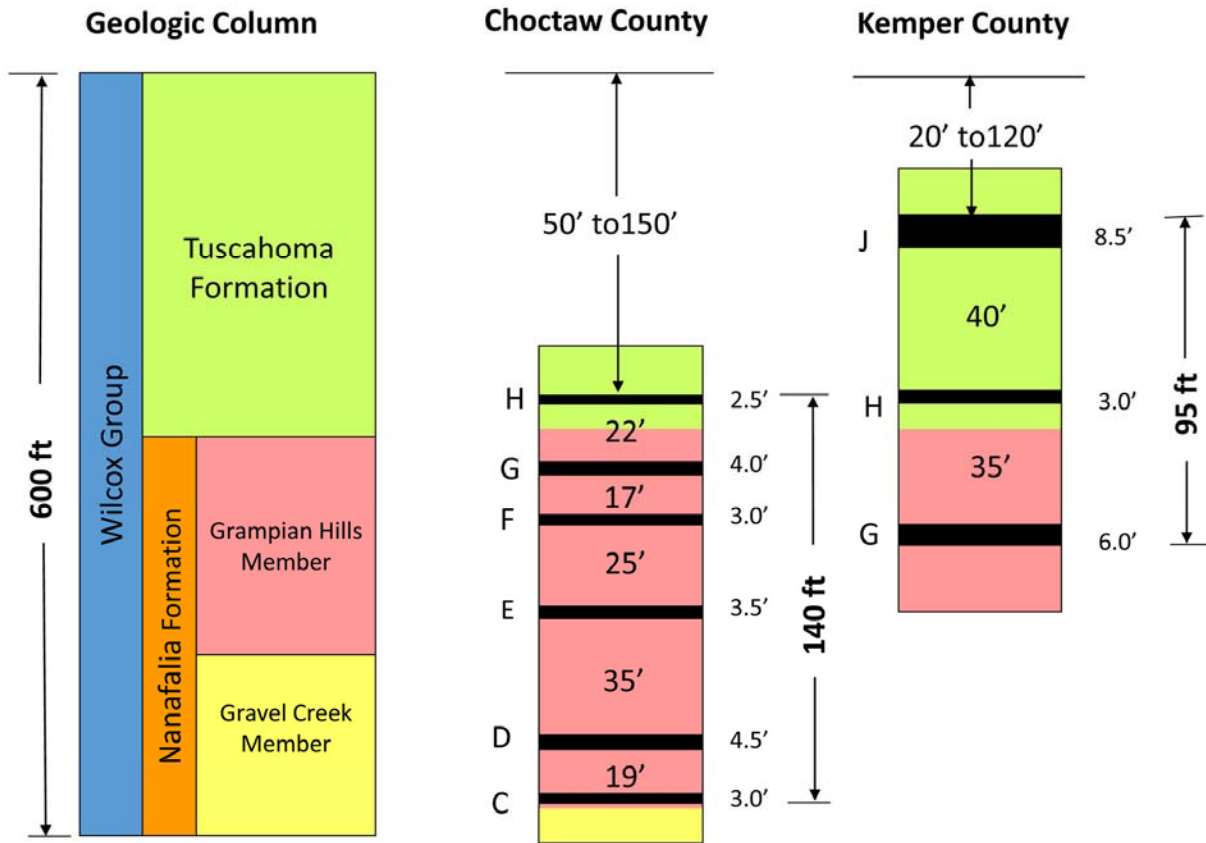


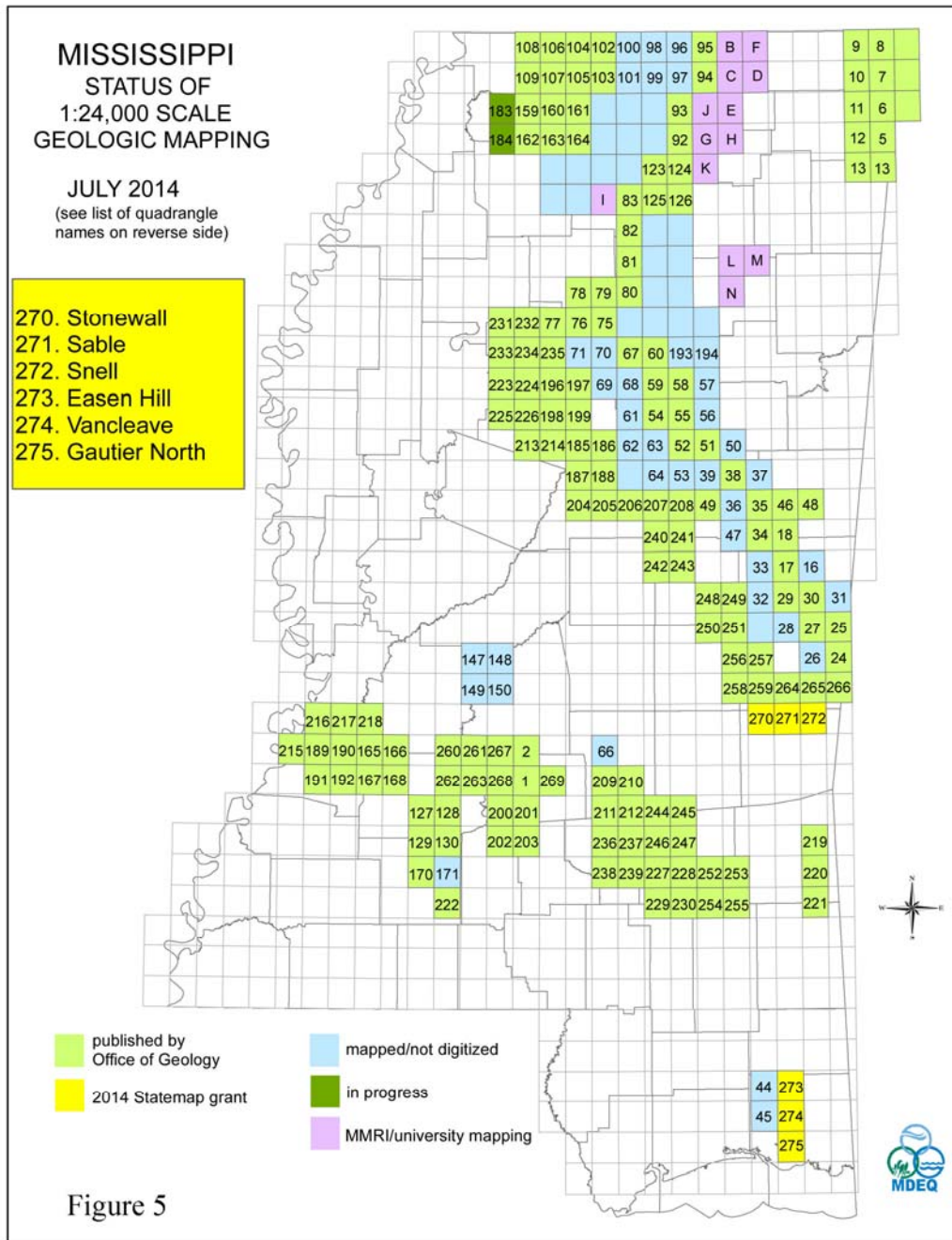
Figure 4. North American Coal Corporation's correlation of lignite seams between the Choctaw and Kemper County lignite mines based on MDEQ's geologic maps.



MGS MONTHLY COLUMN

David T. Dockery III, RPG

Thompson also led the cooperative effort with the USGS to conduct a soil and stream sediment geochemical map of Mississippi. That map came into play in the aftermath of Hurricane Katrina's land-fall on August 29, 2005, when claims of post-hurricane elevated levels of arsenic were dismissed based on Thompson's coastal geochemical data published before the storm. Besides his geologic maps, Thompson's publications include five papers in *Mississippi Geology*, thirteen articles in MDEQ's newsletter *Environmental News*, and, over a 22-year period from 1993-2014, twenty one abstracts/presentations at the annual meetings of the Mississippi Academy of Sciences as published in the *Journal of the Mississippi Academy of Sciences*. Figure 5 shows the current status of published 7.5-minute geologic maps in Mississippi.





MGS MONTHLY COLUMN

David T. Dockery III, RPG

Figure 6 is the Holly Springs 30° x 60° Geologic Map in northern Mississippi along the Tennessee State Line.

DRAFT

Geologic Map of the Holly Springs 1:100,000 Quadrangle

David E. Thompson, RPG

Mississippi Office of Geology

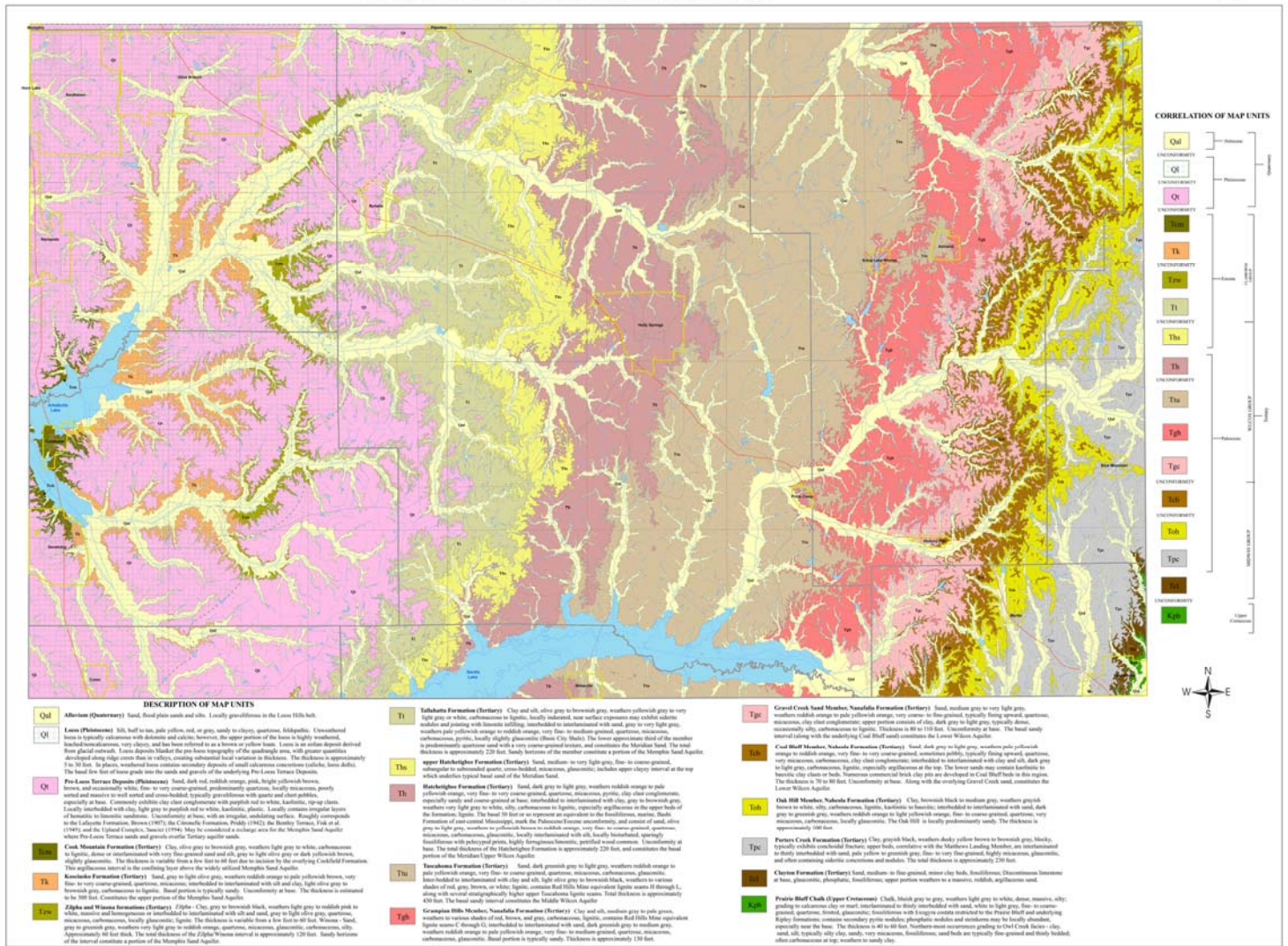


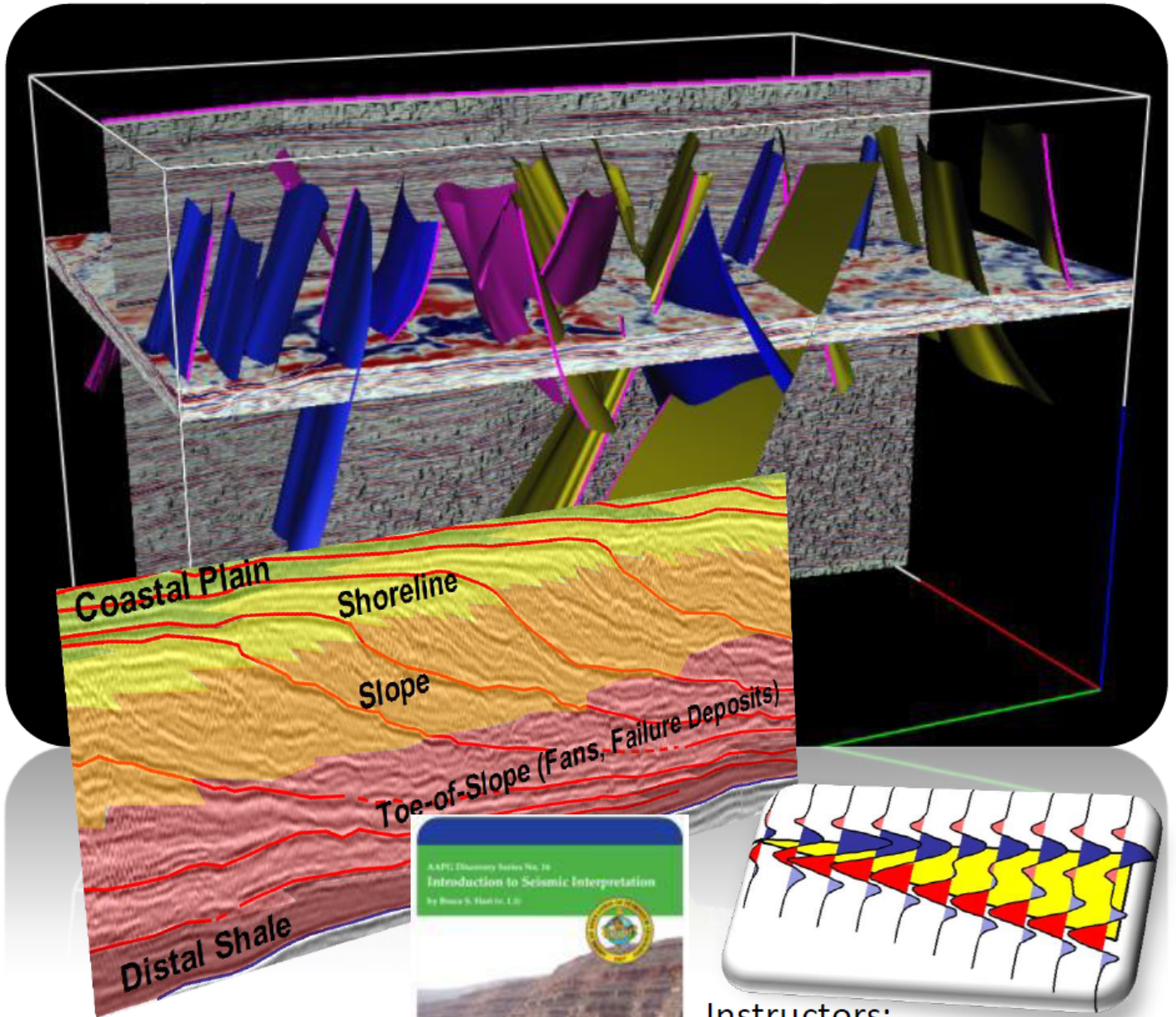
Figure 6

This map is provided by the Mississippi Department of Environmental Quality (MDEQ) as an "as is" basis. MDEQ will not be liable for any damages of any kind arising from the use of this map, including, but not limited to, direct, indirect, punitive, and consequential. MDEQ makes no warranties on this map, reserves, implied, whether in any other provision of any agreement of communication, and specifically declines any implied warranties of merchantability or fitness for a particular purpose.



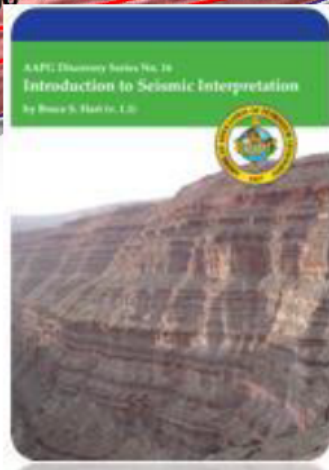
Introduction to Seismic Interpretation: A Free Course for Graduate Students

January 8 & 9, 2015 University of Louisiana, Lafayette



Offered by:

Gulf Coast Section SEPM



Instructors:

Dr. Bruce Hart, Houston

Dr. Carl Fiduk, Houston

Logistics:

Dr. Brian Lock, Lafayette

REGISTER by emailing belock@louisiana.edu before December 16
Open to graduate students from universities in LA, MS, AL, and FL.



SEMINAR

CARBONATES APPLIED TO HYDROCARBON EXPLORATION AND EXPLOITATION

March 23-27, 2015

WHERE: Hilton University of Houston Hotel, Houston, Texas.

COST: \$2795 (Unchanged from 2014)

INSTRUCTOR: JEFFREY J. DRAVIS (Consultant - Dravis Interests, Inc., Houston)

FOR: Geologists, Geophysicists, Reservoir Engineers, Log Analysts and Managers.

GOAL: After this seminar, each delegate will be able to describe and classify typical carbonate rocks, interpret facies relationships, delineate stratigraphic sequences and correlate facies within them, evaluate reservoir quality in limestones and dolomites, and better understand subsurface carbonate plays and reservoirs. This is an excellent refresher course.

This five-day, in-house seminar introduces participants to established principles of carbonate sedimentology applied to hydrocarbon exploration and development geology. Using a highly acclaimed, hands-on and rock-based approach, each participant learns to describe typical carbonate rocks, delineate facies and sequences, evaluate reservoir quality, relate carbonates to log and seismic expression, better predict play relationships in the subsurface, and construct a time-stratigraphic facies framework essential for both accurate regional correlation of carbonate sequences and zonation of carbonate reservoirs. Lectures are reinforced with exercises and problems keyed to 10 identical sample rock sets, each containing 56 representative samples from around the world. A core problem with logs, based on a real exploration target, further reinforces principles presented in this seminar. A 750+ page notebook, with color copies of all power point slides shown in lectures, accompanies the course, as well as a reference book with pictures of samples used in various exercises. This seminar has been presented to industry over 100 times!

INSTRUCTOR'S QUALIFICATIONS

Jeffrey J. Dravis (Ph D) is a technical consultant and instructor in carbonate geology with more than 35 years of worldwide industry and field experience in all aspects of applied modern and ancient carbonate geology. This experience includes 8 years with Exxon Production Research Company where he headed up Exxon's worldwide training efforts in carbonates. Since 1987, he has taught over 200 basic and advanced carbonate seminars.

Past consulting projects (>130 in number) include reservoir studies in Texas (Paleozoic & Mesozoic), Devonian of W. Canada and Russia, Jurassic and Cretaceous of Gulf of Mexico, and Cretaceous of Tunisia; and exploration studies in the Jurassic and Cretaceous of the U.S. Gulf Coast, including Jurassic Smackover/Haynesville and Cretaceous James Lime, Edwards, Glen Rose, Austin Chalk/Buda/Eagleford Limestones, Devonian/Mississippian of W. Canada, Permian of west Texas and Thailand, Pennsylvanian of Four Corners region, and Mesozoic of western and northern Africa. See web site for details.



UNIVERSITY OF MISSISSIPPI

The Tuscaloosa Marine Shale Play in Southwest Mississippi

Greg Easson, Ph.D, Thomas H. Story, and Louis Zachos, Ph.D
University of Mississippi

The Mississippi Mineral Resources Institute (MMRI) at the University of Mississippi has recently completed a compilation of well log data to better define the potential Tuscaloosa Marine Shale (TMS) play in southwest Mississippi. The study was limited to the three counties in southwest Mississippi with the highest potential for TMS drilling success; Wilkinson, Amite and Pike counties. The investigation analyzed more than 1100 well logs in the Ridgway Data Center at the University of Mississippi and the Mississippi Oil and Gas Board, to compile a database of approximately 800 well logs used for the development of a series of maps delineating the TMS potential in southwest Mississippi. The logs in this collection consist of the private collections of many geologists in Mississippi that have been acquired by the university with the generous support of Julius Ridgway. With these additional log, many not available in the study conducted by the Basin Research Institute, we have better defined and delineated the TMS potential in southwest Mississippi.

Figure #1 is a structure contour on the top of the TMS in southwest Mississippi. This area has been drilled for many years by companies seeking to tap the massive and stringer sands of the lower Tuscaloosa formation, resulting in many logs with a complete section of the TMS. Using a log from the Annie Mae Bean #1 in Amite County as the type log, each digital copy of the well logs were analyzed to pick the formation boundaries and the zones of high resistivity. The maps show the distribution of well data used in construction of these maps.

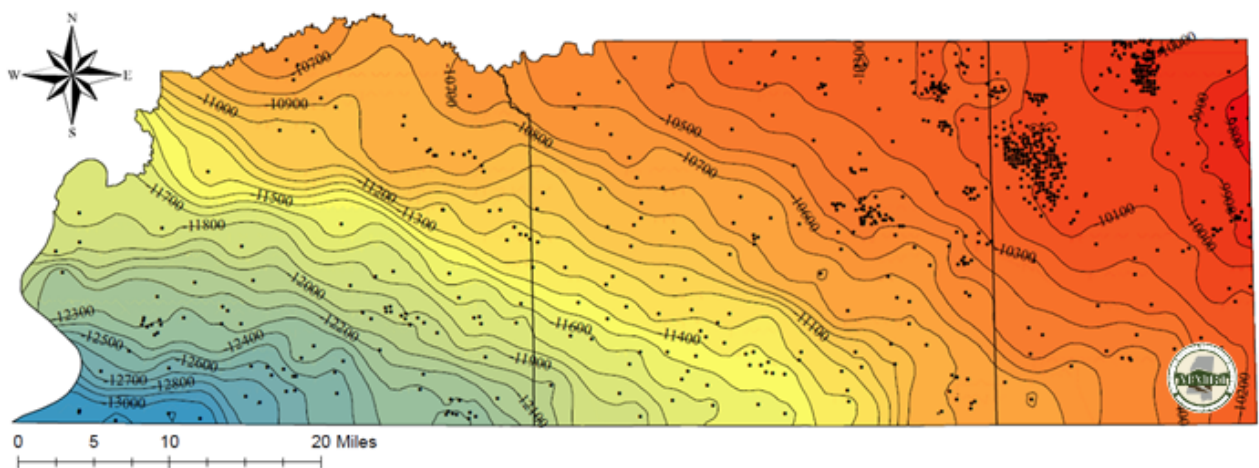


Figure #1: Structure contour map of the top of the Tuscaloosa Marine Shale in (from west to east) Wilkinson, Amite and Pike counties of southwest Mississippi. The contour interval is 100 feet.

One of the keys used to explore the TMS is the zone of higher resistivity within the TMS. For our investigation, we used a measurement of 6 ohms of resistivity for delineating the high resistivity zone



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from log data. Figure #2 is an isopach map of the thickness of this high resistivity zone, with a 20 foot contour interval.

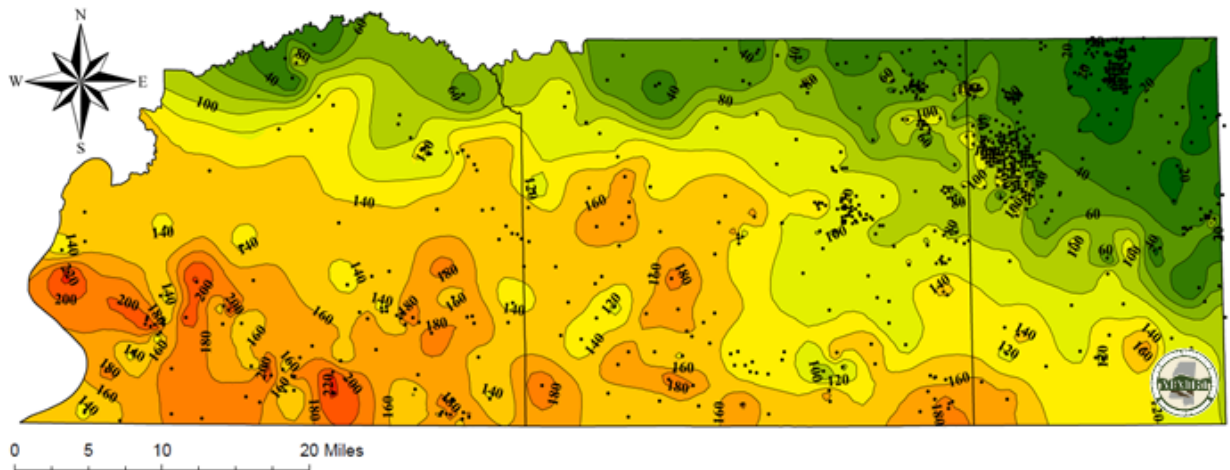


Figure #2: Thickness of the zone of resistivity greater than 6 ohms in the TMS in (from west to east) Wilkinson, Amite and Pike counties of southwest Mississippi. The contour interval is 20 feet.

One part of the analysis of the TMS in southwest Mississippi is to investigate where the highly resistive section occurs within the TMS. While this analysis is still ongoing, it appears that the structure contours of the top of the zone of high resistivity are well correlated with the structure contour of the top of the TMS.

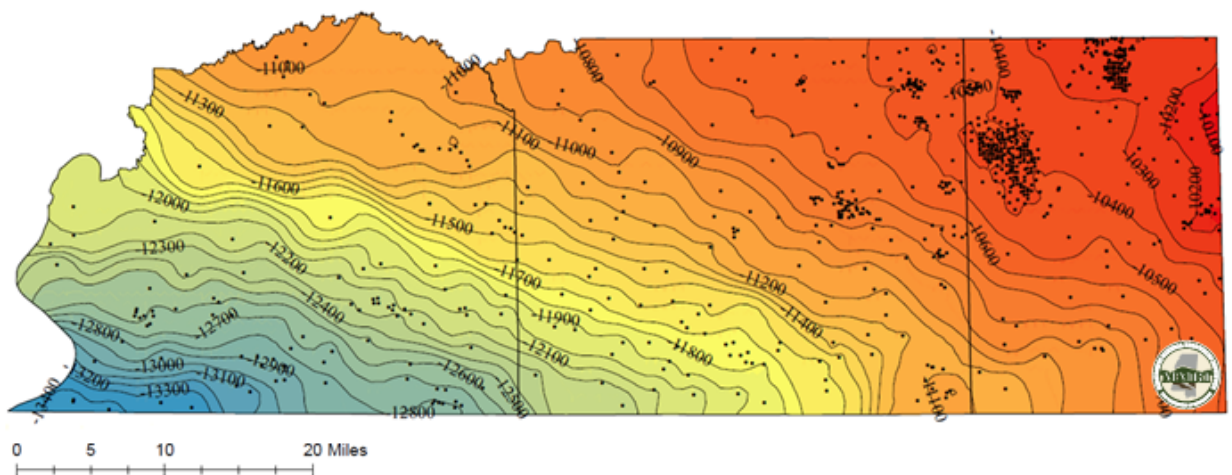


Figure #3: Structure contour of the top of the high resistivity zone within the TMS with resistivity greater than 6 ohms in (from west to east) Wilkinson, Amite and Pike counties of southwest Mississippi. The contour interval is 100 feet.



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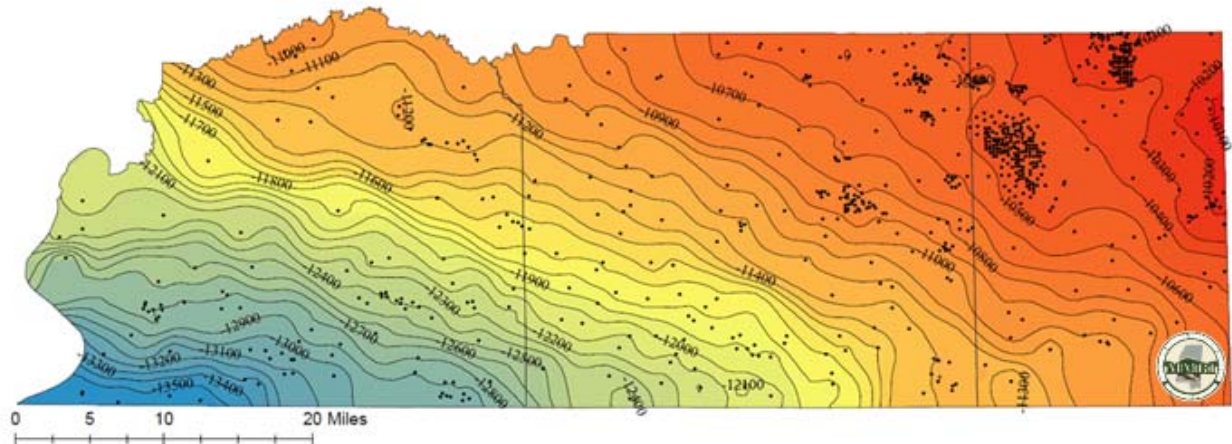


Figure #3: Structure contour of the top of the Lower Tuscaloosa Formation in (from west to east) Wilkinson, Amite and Pike counties of southwest Mississippi. The contour interval is 100 feet

About the authors:

Dr. Greg Easson is the Director of the Mississippi Mineral Resources Institute and a Professor of Geology and Geological Engineering at the University of Mississippi. Dr. Louis Zachos is an Assistant Professor in the Department of Geology and Geological Engineering. Thomas H. Story is a graduate student completing his MS degree in Geology at the University of Mississippi.

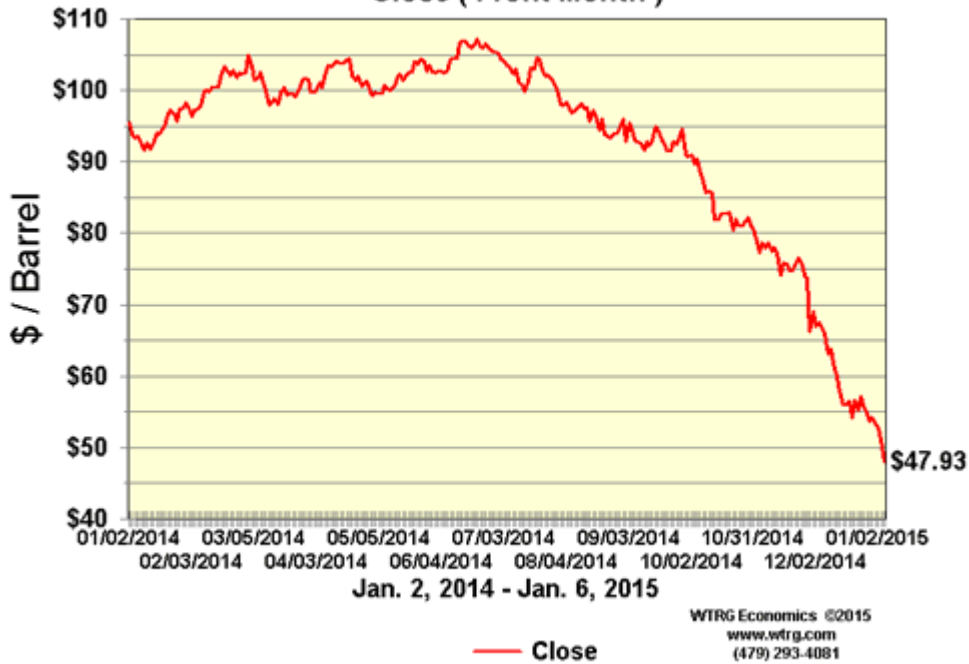
The Mississippi Mineral Resources Institute at the University of Mississippi was established by the Mississippi Legislature in 1972 to coordinate natural resource-related research in Mississippi.

www.mmri.olemiss.edu www.engineering.olemiss.edu/gge

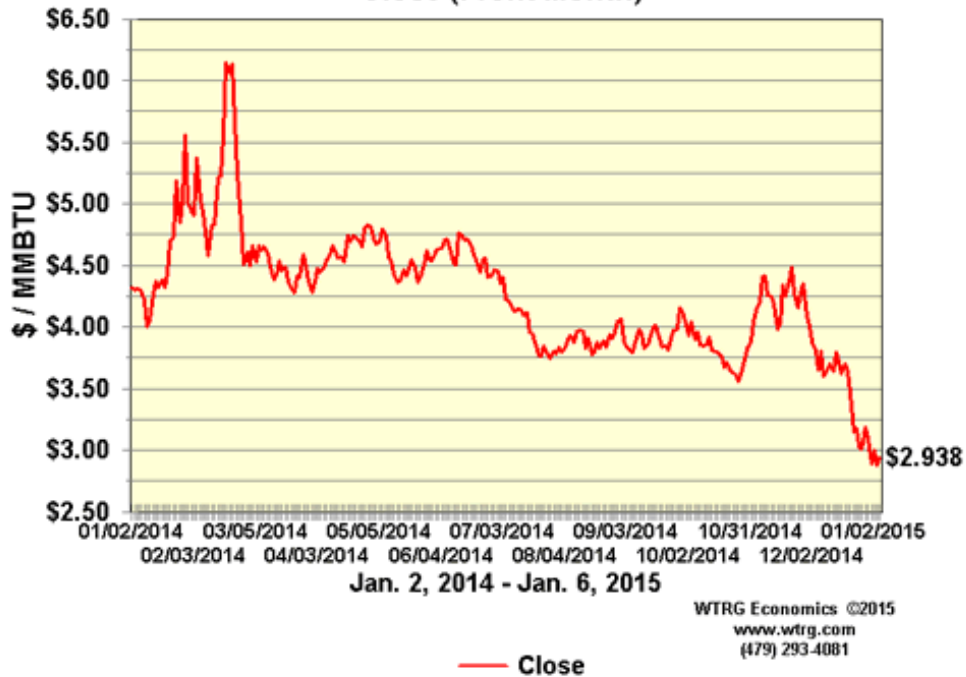


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Responsibilities include but are not limited to: performing site investigation activities, remedial system design and operation, subcontractor oversight; preparation of work plans; management of field health and safety, drilling, and scheduling; writing technical reports; and making technical recommendations for site assessment and remediation activities. Experience managing project schedules, staffing, and budgets is a plus, as is experience conducting Phase I Environmental Site Assessments (ESAs). We require a minimum of a BS in Geology with two to five years of experience. HAZWOPER training and certification is required.

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EEO/AA





IN MEMORIAM

Robert Womack Jr

In Memory Of Robert Womack, Jr.

Robert Womack, Jr., 97, died Tuesday, December 23, 2014 at St. Catherine's Village in Madison. A funeral service will be held at 11:00 a.m. Saturday, December 27, 2014 at St. James' Episcopal Church with visitation beginning at 10:00 a.m. Saturday in Oak Ridge Hall at St. James'.

Born in Texarkana, Texas on November 29, 1917 to Robert and Gertrude Womack, he had two brothers, Brame and Jesse Womack. Robert graduated from the University of Oklahoma with a BS in Geological Engineering in June 1941. He graduated with honors being Tau Beta Pi (honorary engineering fraternity) and Sigma Gamma Epsilon (honorary geological fraternity.) He worked for the U.S. Corp of Engineers in Pocahontas, AR., and Branson, MO after graduation. He volunteered in the US Naval Reserve in August, 1941 and started active duty in January 1942 at the U.S. Naval Academy, Annapolis, MD. Later, he served as engineering repair officer at Naval Base Cape May, NJ and then served as chief engineer on the U.S.S. Forester, DE 334 on Atlantic convoy duty. Robert was transferred to Naval Intelligence in June 1945. He married Virginia Frances Absher of Bartlesville, OK in June 10, 1942 in Bethlehem, PA. Following WW II, Robert was employed by Gulf Oil Co. in Laurel, MS from 1945-1947, then by the California Oil Co (now Chevron) from 1947-1951, serving as District Superintendent for MS, AL, GA, and FL in Jackson, MS. He resigned to become an independent consulting geologist in Jackson, MS in Sept 1951 and remained until retirement in 1989.

He was preceded in death by his parents, brothers and his wife, Virginia (Vee), of 54 years on November 20, 1997.

He is survived by sons, Robert III and William Absher Womack (Stephanie); grandchildren, Jennifer Verville, Robert Baynes Womack, and Meredith Womack; and three great grandchildren. He moved to St. Catherine's Village, Madison in August 1997.

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ARTICLES, PAPERS or NEWS?

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

I am adding a dedicated section that includes 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:

mcaton@tellusoperating.com

Thanks & Regards,

Matt Caton
Editor



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After notification of acceptance on **January 20, 2015**, authors submit extended abstracts (1-2 pages) or full papers up to 12 pages to the GCAGS Transactions by **February 20, 2015** to GCAGS Transactions Editor, Steve Levine.

Full instructions for manuscript submissions will be posted online at www.gcags2015.com.

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After acceptance, a full manuscript must be submitted by **March 24, 2015**.

Full instructions for manuscript submissions will be posted online at www.gcags2015.com.



BOLAND SCHOLARSHIP WATCH

Faculty & Students,

This is a new year and the Mississippi Geological Society along with the Boland Scholarship Fund would like to remind you that we want to honor the most outstanding overall students for the 2014-2015 year.

Each year, the Boland Scholarship awards 1 student from each institution a check that rewards students for their hard work and dedication to the Geosciences and their community.

We look forward to a great year and hope to see you at our monthly meetings.

Best Regards,

Matt Caton
Editor



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Please contact Bill Bagnall if you have any questions.

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.

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<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/owersof10/>

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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.

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<http://www.fs.fed.us/gpnl/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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