

NEWS

BULLETIN

mississippi geological society



VOLUME XXVII NO. 1, SEPTEMBER, 1979

M.G.S. BARBEQUE: SEPTEMBER 10

September 10 is the date and Fowler Buick Lodge is the place for the Mississippi Geological Society Fall Barbeque. The doors will open at 4:30, with the barbeque served at 6:30. Beer will be available from start to finish. Annual dues must be paid at that time. Dues may either be paid in advance to the secretary, Steve Oivanki, or at the barbeque. As Data Log is picking up the tab, the cost to members is nothing. Cost to visitors will be \$10.00.

T. C. Rader has once again agreed to be the chef. As in years past, this year's barbeque will be fantastic. We hope everyone will try to attend. T. C. could use some help, so please contact him if you have some time to offer that day.

Reservations are all important, so T. C. will be able to plan on plenty of food and beer. Please call in your reservations to T. C. by noon, Friday, September 7, at 969-3286.

MISSISSIPPI GEOLOGICAL SOCIETY

OFFICERS:

PRESIDENT - PHILIP REEVES - HUGHES&HUGHES
1ST VICE PRES.- MARSHAL KERN - INDEPENDENT
2ND VICE PRES.- PHIL COOK - FOREST OIL
SECRETARY - STEVE OIVANKI - INDEPENDENT
TREASURER - PHILLIP GUNTER - COQUINA
PAST PRESIDENT- LES AULTMAN - MIDROC-WATKINS

DELEGATES:

A.A.P.G. - CHARLES WILLIAMS- MIDCONTINENT
A.A.P.G. - NESTOR BLANCO - PLACID
G.C.A.G.S. - SARAH CHILDRESS - LARCO

COMMITTEES AND CHAIRMEN:

BULLETIN - STEVE BENEDETTI - UNION OIL
CONTINUING EDN- LARRY BARIA - TIDEWAY
ENTERTAINMENT - T.C. RADER - CLARKCO
PROGRAM - GERALD KINSLEY - INDEPENDENT
PROJECTION - FRANK JOHNSON - PLACID
PUBLICATIONS - PHIL COOK - FOREST OIL
PUBLICITY - MARSHAL KERN - INDEPENDENT

NEWS BULLETIN STAFF:

EDITOR - STEVE BENEDETTI - UNION OIL
ADVERTISING - MARSHAL KERN - INDEPENDENT
AUXILIARY - MRS. JERRY (RUTH) ZOBLE
GEOPHYSICS - KLYNE HEADLEY - FLORIDA GAS
IND. PROGRESS - MICKEY McGUIRE - CHEVRON OIL
PHOTOGRAPHY -

RED BOOK COMMITTEE:

KIPP FERNS - - CITIES SERVICE
SIMEON KING - - HUGHES&HUGHES
LES AULTMAN - - MIDROC-WATKINS
DON TURNER - - UNION OIL

PRESIDENT'S NOTES

It seems that the older one gets the faster time passes. It has now passed to the time when we begin our new year with the Mississippi Geological Society. I am looking forward to working for you and with you this year and hope that we can continue to make our society move forward as it has in the past. I would like to take this opportunity to thank past President, Les Aultman for the great job he did last year and I am looking forward to the advice that he can give this year using his experience.

The Board of Directors of the Society have been meeting monthly throughout the summer and have come up with two projects that we think are important to consider and do in the coming year. One of these is a continuation of updating the Red Book. This seems to be a very monumental task and will take considerable effort. We have a topnotch committee working on this and ask that if you are contacted for help along this line that you will be very cooperative.

The other project that we have considered and which will be brought to the entire society at our October meeting is the initiating of a scholarship fund for our society in the name of Larry Boland. Several people have mentioned to me something about beginning a scholarship fund and I think this will be a very good project for the society and something that we can carry on throughout the years.

I would like to say a special thanks here to all of the committee chairmen and committee members whom I have contacted. To this date, to my knowledge, I have not had one person to turn me down when asked. I think this speaks extremely well of the membership of our society and that they are willing to give of their time. These members are listed elsewhere in the bulletin and

June 19, 1979

PRESENT: PHILIP REEVES, MARSHALL KERN, PHIL COOK, STEVE OIVANKI, PHIL GUNTER, LES AULTMAN, GERALD KINSLEY

BARBEQUE: Data-Log had requested to pay all costs of the Barbeque. Board members agreed to allow it.

PROGRAMS: Gerald Kinsley reported that Kip Ferns will speak October 2, Ram Saxena November 6, and Dee Layman at a later meeting.

SCHOLARSHIP: Les Aultman suggested that a scholarship fund be established in honor of Larry Boland.

G.C.A.G.S.: Judges this year are DONNA HILL and LES AULTMAN

July 18, 1979

PRESENT: PHILIP REEVES, MARSHAL KERN, PHIL COOK, AND PHIL GUNTER

G.C.A.G.S.: The Holiday Inn Downtown was approved for use during the 1982 Convention.

PROGRAM: Speakers for the 1979-80 noon luncheons have been scheduled.

RED BOOK: Kipp Ferns is Committee Chairman. Les Aultman, Simeon King and Don Turner are on the committee.

August 16, 1979

PRESENT: PHILIP REEVES, MARSHALL KERN, PHIL GUNTER, STEVE OIVANKI, LES AULTMAN, PHIL COOK, STEVE BENEDETTI

RED BOOK: The draftsman has been paid \$1200 so far, 10 maps have been finished. Engineering Services was suggested as an alternative.

BARBEQUE: It is scheduled for September 10 at Fowler Lodge. A sign will be printed acknowledging Data-Log and Halliburton

BULLETIN: Editor will check on cost of improving bulletin and contents.

- PROGRESS REPORT -

April, 1979

ALABAMA

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Jurassic	0	0	2
Paleozoic	0	4	1

Exploratory Footage: 48,597'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Jurassic	1	0	0
Paleozoic	0	6	3

FLORIDA

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Lwr. Cret.	1	0	0
Jurassic	0	0	1

Exploratory Footage: 24,543'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Lwr. Cret.	0	0	2
Jurassic	2	0	0

MISSISSIPPI

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	1	0	2
Up. Cret.	0	0	1
Lwr Cret.	0	1	1
Jurassic	1	0	2
Paleozoic	0	0	1

Exploratory Footage: 107,113'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	2	0	6
Up. Cret.	3	0	1
Lwr. Cret.	1	2	3
Jurassic	2	0	0

May, 1979

ALABAMA

<u>EXPLORATION</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Jurassic	0	0	4

Exploratory Footage: 54,108'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Lwr. Cret.	1	0	0
Jurassic	1	0	0
Paleozoic	0	8	4

MISSISSIPPI

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	1	0	8
Up. Cret.	1	0	1
Lwr. Cret.	0	2	6
Paleozoic	0	2	3

Exploratory Footage: 214,358'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	2	0	1
Up. Cret.	3	0	1
Lwr. Cret.	1	5	3
Paleozoic	0	3	0

June, 1979

ALABAMA

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Paleozoic	0	4	1

Exploratory Footage: 15,927'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Jurassic	1	0	3
Paleozoic	1	4	3

FLORIDA

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Lwr. Cret.	0	0	1

Exploratory Footage: 11,000'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Lwr. Cret.	2	0	0

MISSISSIPPI

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	2	0	9
Up. Cret.	1	0	1
Lwr. Cret.	0	1	2
Jurassic	0	0	1
Paleozoic	0	1	2

Exploratory Footage: 166,743'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	5	0	8
Up. Cret.	1	0	3
Lwr. Cret.	1	7	0
Paleozoic	0	0	1

July, 1979

ALABAMA

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	0	0	1
Paleozoic	0	1	2

Exploratory Footage: 14,802'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Jurassic	1	1	0
Paleozoic	0	2	3

FLORIDA

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Lwr. Cret.	0	0	1

Exploratory Footage: 12,016'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Lwr. Cret.	2	0	2
Jurassic	2	0	0

MISSISSIPPI

<u>EXPLORATORY</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	1	0	10
Lwr. Cret.	0	0	3
Jurassic	0	0	4
Paleozoic	0	0	4

Exploratory Footage: 164,079'

<u>DEVELOPMENT</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>
Eocene	3	0	2
Up. Cret.	3	0	0
Lwr. Cret.	1	1	4
Jurassic	0	0	1

DISCOVERIES

UNNAMED

Warrior Drlg. & Engr. Co.
#1 Perry 13-5
Section 13-14S-12W
TD 2793 (Paleozoics)
Carter Sd. Pfs: 2045-53
FARO 1837 MCFGPD 23/64 ck, FTP 580#

4-18-79

Fayette Co., Ala.

UNNAMED

Warrior Drlg. & Engr. Co.
#1 C. Stewart 31-4
Section 31-16S-11W
TD 3765 (Paleozoics)
Carter Sd. Pfs: 3323-31
FARO 265 MCFGPD 16/64 ck, FTP 180#

4-10-79

Fayette Co., Ala.

UNNAMED

Warrior Drlg. & Engr. Co.
#1 Wright 35-4
Section 35-15S-12W
TD 3240 (Paleozoics)
Carter Sd. Pfs: 2726-53 (QA)
FARO 1090 MCFGPD 16/64 ck, FTP 740#

4-11-79

Fayette Co. Ala.

UNNAMED Southland Royalty Co. #1 L. J. Hays 2-8 Section 2-16S-16W TD 4050 (Paleozoics) Carter Sd. Pfs: 4183-4205 (OA) FARO 2054 MCFGPD 22/64 ck, FTP 870#	4-29-79 Lamar Co., Ala.
UNNAMED Exxon Corp. #33-4 Oleum Corp. Section 33-51S-34E TD 11,658 (Lwr. Cret.) Sunniland Pfs: 11,410-432 (OA) P/58 BO + 825 BWPB (23.3° Gr.)	4-28-79 Collier Co., Florida
SWEET GUN Radzewicz Oper. Corp. #1 Gaddes Section 25-5N-1W TD 6810 (Wilcox) Artman Sd. Pfs: 6354-55 F/50 BOPD 9/64 ck, FTP 50# (39° Gr.)	4-17-79 Adams Co., Miss.
HOOKEE Petroleum Corp. Del. & Coquina Oil #1 Crown Zellerbach Section 1-8N-21W TD 15,781 (Hosston) Cligo Pfs: 15,466-486 FARO 2455 MCFG + 76 BCPD (3.97% CO₂) 12/64 ck, FTP 2134#, GCR 32,308/1 (52.8° Gr.)	4-26-79 Lawrence Co., Miss.
NORTH MIWANNEE Inexco Oil #1 Bishop-Coolley et al Section 21-10N-7W TD 15,778 (Salt) Morphlet Pfs: 15,604-680 (OA) FARO 600 BO + 1200 MCFGPD 20/64 ck, FTP 950#, GOR 2000/1 (45.2° Gr)	4-3-79 Wayne Co., Miss.
Unnamed G. G. Cornwell-Foley-Prescott #1 Armstrong-Oakland Sec. 1-7N-1W T.D. 4400 (Wilcox) Stewart 'B' Sd. pfs: 4302-07 FARO 150 BOPD 8/64 ck F.T.P. 2000 (38° Gr-Est.)	5-24-79 Adams Co., Ms.
Unnamed (Dual Comp.) Pruet & Hughes & LLE, et al #1 Federal Land Bank 25-12 Sec. 25-12S-4E T.D. 3915 (Paleozoics) Lwr Sanders pfs: 2097-2108 FARO 595 MCFGPD 24/64 ck F.T.P. 175# Rea Sd pfs: 2270-76 FARO 1200 MCFGPD 20/64 ck F.T.P. 500#	5-1-79 Chickasaw Co., Ms.
East Morgantown Tomlinson Interests #1 Bd. of Education Sec. 16-4N-13E T.D. 17,423 (Hosston) Harper Sd pfs: 16,053-073 FARO 4514 MCFGPD 18/64 ck F.T.P. 1762# Ivy Sd. pfs: 16,511-559 FARO 1678 MCFGPD 18/64 ck F.T.P. 737#	5-15-79 Marion Co., Ms.

Vaughts Florida Gas #1 Conerly, et al Sec. 4-2N-9E T.D. 18,500 (Hosston) Tusc. Pfs.: 10,714-736 FARO 258 BOPD 10/64 ck F.T.P. 794# G.O.R. 339/1 (37.8° Gr)	5-1-79 Pike Co., Ms.	
Unnamed Warrior Drlg. & Engr. #1, Gibson 28-4 Section 28-17S-12W TD 4412' (Paleoz.) Pachwood Pfs.: 3264-89 FARO 36 MCFG + 6 BOPD on 12/64" ck. FTP 60# (40 Deg. Gty)	 Fayette Co., Ala.	Completed 6/3/79
Unnamed Hughes & Hughes & Warrior Drlg. & Engr. #1, McLaughlin 34-11 Section 34-13S-15W TD 2996' (Paleoz.) Upper Carter Pfs.: 2310-16 FARO 147 MCFGPD on 11/64" ck. FTP 220#	 Lamar Co., Ala.	Completed 6/5/79
Watson Creek Hughes & Hughes & Warrior Drlg. & Engr. #1, Norton 6-2 Section 6-15S-15W TD 3373' (Paleoz.) Carter Pfs.: 2699-2711 FARO 913 MCFGPD on 16/64" ck. FTP 620#	 Lamar Co., Ala.	Completed 6/2/79
Unnamed M.W.J. Prod. & Moon & Hines #1, Spruiel Section 10-12S-16W TD 2043' (Paleoz.) Pennington Sd. Pfs.: 926-944 FARO 180 MCFGPD on 3/4" ck. FTP 40#	 Lamar Co., Ala.	Completed 6/1/79
Rucker Home Heard Walter W. Mead, et al #3, Armstrong-Oakland "B" Section 24-7N-1W TD 4397' (Wilcox) Stewart "B" Pfs.: 4217-20½ P 24 BO + 48 BWPD (34 Deg. Gty)	 Adams Co., Miss.	Completed 6/12/79
Unnamed Louisiana Land & Expl. #1, Farned Section 23-12S-4E TD 2682' (Paleoz.) Evans Sd. Pfs.: 2453-62 FARO 369 MCFG + 13 BWPD on 14/64" ck. FTP 521#	 Chickasaw Co., Miss.	Completed 6/8/79
Waveland (New Pay) Tideway #1, Dorward 26-10 Section 26-7N-15W TD 14,200' (Mooringsport) Paluxy Pfs.: 12,674-684 FARO 1850 MCFG + 103 BC + 170 BWPD on 16/64" ck. FTP 1500# (47.8 Deg. Gty)	 Hancock Co., Miss.	Completed 6/2/79
South Morgantown L. L. & E. #1, Hauberg Section 19-4N-13E TD 17,023' (Hosston) Ivy Sd. Pfs.: 16,670-696 F 877 MCFG + 96 BWPD on 16/64" ck.	 Marion Co., Miss.	Completed 6/13/79

Vaughts
Florida Gas
#1 Conerly, et al
Sec. 4-2N-9E
T.D. 18,500 (Hosston)
Tusc. Pfs.: 10,714-736
FARO 258 BOPD 10/64 ck F.T.P. 794# G.O.R. 339/1 (37.8° Gr)

5-1-79

Pike Co., Ms.

Unnamed
Warrior Drig. & Engr.
#1, Gibson 26-4
Section 28-17S-12W
TD 4412' (Paleoz.)
Falconed Pfs.: 3264-89
FARO 36 MCFG + 6 BOPD on 12/64" ck. FTP 60# (40 Deg. Gty)

Completed 6/3/79

Fayette Co., Ala.

Unnamed
Hughes & Hughes & Warrior Drig. & Engr.
#1, McLaughlin 34-11
Section 34-13S-15W
TD 2296' (Paleoz.)
Upper Garter Pfs.: 2310-16
FARO 147 MCFGPD on 11/64" ck. FTP 220#

Completed 6/5/79

Lamar Co., Ala.

Watson Creek
Hughes & Hughes & Warrior Drig. & Engr.
#1, Norton 6-2
Section 6-15S-15W
TD 3373' (Paleoz.)
Carter Pfs.: 2699-2711
FARO 913 MCFGPD on 16/64" ck. FTP 620#

Completed 6/2/79

Lamar Co., Ala.

Unnamed
M.W.J. Prod. & Moon & Hines
#1, Spruiel
Section 10-12S-16W
TD 2943' (Paleoz.)
Pennington Sd. Pfs.: 926-944
FARO 180 MCFGPD on 3/4" ck. FTP 40#

Completed 6/1/79

Lamar Co., Ala.

Rucker Home ~~Acad~~
Walter W. Head, et al
#3, Armstrong-Oakland "B"
Section 24-7N-1W
TD 4327' (Wilcox)
Stewart "B" Pfs.: 4217-20½
P 24 BO + 48 BWPD (34 Deg. Gty)

Completed 6/12/79

Adams Co., Miss.

Unnamed
Louisiana Land & Expl.
#1, Farned
Section 23-12S-4E
TD 2682' (Paleoz.)
Evans Sd. Pfs.: 2453-62
FARO 369 MCFG + 13 BWPD on 14/64" ck. FTP 521#

Completed 6/8/79

Chickasaw Co., Miss.

Haveland (New Pay)
Tideaway
#1, Dorward 26-10
Section 26-7N-15W
TD 14,200' (Mooringsport)
Paluxy Pfs.: 12,674-684
FARO 1850 MCFG + 103 BC + 170 BWPD on 16/64" ck. FTP 1500# (47.8 Deg. Gty)

Completed 6/2/79

Hancock Co., Miss.

South Morgantown
L. L. & E.
#1, Hauberg
Section 19-4N-13E
TD 17,023' (Hosston)
Ivy Sd. Pfs.: 16,670-696
F 877 MCFG + 96 BWPD on 16/64" ck.

Completed 6/13/79

Marion Co., Miss.



THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS
P. O. Box 979
Tulsa, Oklahoma 74101

May 24, 1979

RECEIVED
MAY 29 1979

MEMORANDUM

TO: Affiliated Society Newsletter Editors
FROM: Fred A. Dix, Jr. *FAD*
SUBJECT: Election Results

President-Elect

Robey H. Clark
Diamond Shamrock
Amarillo, Texas

Vice President

D. Keith Murray
Colorado School of Mines
Research Institute
Golden, Colorado

Secretary

Donald R. Boyd
Independent
Corpus Christi, Texas

Editor

Myron K. "Mike" Horn
Cities Service Oil Company
Tulsa, Oklahoma

FAD:mn

G.C.A.G.S. JUDGES

LES AULTMAN - MIDROC-WATKINS
DONNA HILL - AMERICAN NATURAL GAS

The Jackson Geophysical Society will hold its annual membership drive and pig roast on September 25, 1979, at Fowler Lodge. Dues for the 1979-80 year will be collected. Dues are \$15.00 and the pig roast will cost \$5.00. Doors will open at 5:00. Any person who wishes to volunteer his services, please call Tom Jones at 969-1568. This year's officers are: PRESIDENT - BRIAN HOULIHAN, FOREST OIL; VICE-PRESIDENT - KLYNE HEADLEY, FLORIDA GAS; SECRETARY-TREASURER - JIM MCGINNIS - SSD.

PETROLEUM AUXILIARY

MEMBERSHIP COFFEE, SEPTEMBER 18

Mrs. H. D. Baker
3032 Culleywood Rd.
10 A.M. - NOON

The Petroleum Auxiliary will have their Membership Coffee September 18, 1979, at the Home of Mrs. H. D. Baker, 3032 Culleywood Rd., Jackson. The time will be 10 A.M. - 12 Noon. The Hostesses will be the new officers for 1979-80. The newly elected officers are: MRS. JERRY E. ZOBLE - PRESIDENT; MRS. RANDY JAMES - 1ST VICE PRESIDENT; MRS. MICHAEL PRYOR - 2ND VICE PRESIDENT; MRS. LARRY WOOD - SECRETARY; MRS. PETE MARKOW - TREASURER; MRS. DICK B. MASON III - REPORTER.

All present and prospective members are invited to attend.

- NEW MEMBERS -

SAMUEL G. BARTLETT, Cities Service, Jackson, Miss.
JESSE S. ELLARD, Warrior Drlg., Tuscaloosa, Ala.
RODNEY W. FURHRMANN, Data Log Inc., La Place, La.
BOBBY R. GREER, Student, U. Southern, Miss.
WALTER B. HENLY, JR., Warrior Drlg., Tuscaloosa, Alabama
RANDY J. JOHNSON, Student, Millsaps
WILLIAM D. KEHOE, Trans-Texas Energy, Inc., Jackson, Miss.
EMMETT L. KING, JR., Mich-Wisconsin, Jackson, Ms.
RUBEN J. KLIBERT, SR., Data Log Inc., La Place, La.
BRIAN D. MANN, Warrior Drlg., Tuscaloosa, Alabama
TERRENCE T. O'DONNELL, Davis Oil, New Orleans, La.
MARVIN L. PETERSON, Texas-Pacific, Lafayette, La.
FREDERICK L. SMITH, U.S. Army Corps of Engineers, Vicksburg, Miss.
PAUL S. STOUTAMIER, Santa Fe Energy, Amarillo, Texas
TOM E. SWISHER, Core Lab, Inc. Pearl, Miss.

G.C.A.G.S. & G.C.S. - S.E.P.M.

Don't forget the 1979 G.C.A.G.S. Convention, scheduled this year for October 10-12 in San Antonio, Texas. The host for this year's convention is the South Texas Geological Society. Convention headquarters will be the San Antonio Convention Center.

A short course, "Well Log Formation Evaluation", is scheduled for Wednesday, October 10. Also, field trips covering Cretaceous carbonates and recent clastic sedimentation are scheduled.

To avoid delays, register in advance and make room reservations early.

G.C.A.G.S. PAPERS

The following is a preliminary list of papers to be presented at the G.C.A.G.S. in San Antonio, Texas this fall '79.

1. "Ecological Niches of Radiolarians, Planktonic Foraminiferans and Pteropods Inferred from Studies on Living Forms in the Gulf of Mexico and Adjacent Waters"

R. E. Casey; L. Gust; A. Leavesley; D. Williams;
R. Reynolds; T. Duis; and J. M. Spaw

2. "Relict and Expatriate Radiolarian Fauna in the Gulf of Mexico and its Implications"

R. E. Casey; K. McMillen; R. Reynolds; J.M. Spaw; R. Schwarzer; J. Gevirtz; and M. Bauer

3. "Radiolarian Distribution, Diversity and Density in the Water Column and Holocene Sediments of the Gulf of Mexico and Adjacent Waters"

R. E. Casey; J. W. Spaw; F. Junze; R. Reynolds; T. Duis; and K. McMillen

4. "Subsurface Neogene Stratigraphy of Bay Co., Florida"

M. W. Clark and R. Wright

5. "Petrography of some Subsurface Igneous Rocks of Mississippi"

D. W. Harrelson and A. R. Bicker, Jr.

6. "Chemical Differentiation of Temperate and Tropical Limestone-derived Soils"

W. C. Isphording

7. "Revision of the Tampa Formation, West Central Florida"

K. C. King and R. Wright

8. "Equilibrium in Modern Coral Reefs, Western Gulf of Mexico - Role of Ecology and Ostracod Microfauna"

P. R. Krutak and S. E. Rickels

9. "Carrillo Pureto Formation of Northeastern Quintana Roo, Mexico"

R. W. Lauderdale; W. C. Ward; and A. W. Weidie

10. "Outer Deep-sea Fan Depositional Lobe Sequences from the Jackfork Group of Southern Arkansas"

Brian E. Lock

11. "Planktonic Foraminiferal Biostratigraphy of the Yazoo (Eocene) and Red Bluff (Oligocene) Clays in Southwest Alabama"

E. A. Mancini

12. "Distribution and Significance of Coarse Biogenic and Clastic Deposits on the Texas Inner Shelf"

R. A. Morton and C. D. Winker

13. "Geopressure in the Houma and Hollywood Fields, Louisiana"

S. T. Mumme and R. E. Ferrell

14. "Field Relationships and Petrology of the Catahoula Formation in Portions of Lavaca, Gonzales, and Fayette Counties, Texas"

W. A. McCracken

15. "Radiolarian Ratios and the Pleistocene-Holocene Boundary"

K. J. McMillen

16. "Meridionally Ornamented Hedbergellid Foraminifers from the Western Atlantic, Deep-sea Drilling Project, Leg 43, Site 386"

Charles L. McNulty

17. "The Role of Hurricane-Cuts in the Stratigraphy of Central Gulf Coast Barriers"

Dag Nummedal

18. "Stratigraphy and Paleoecology of the Tamiami Formation in Lee and Hendry Counties, Florida"

D. M. Peck; D. H. Slater; S. W. Wise, Jr.; and
T. M. Missimer

19. "Variations in Littoral Sand Features with Special Reference to Washover Forms on the Caminada-Moreau Coast, Louisiana"

P. S. Penland and W. Ritchie

20. "Living Foraminifers of West Flower Garden Bank, Northernmost Coral Reef in the Gulf of Mexico"

C. Wylie Poag and R. C. Tresslar

21. "Organic Geochemistry of a 6.9 Kilometer-deep Well, Hinds County, Mississippi"

Leigh C. Price; J. L. Clayton and L. L. Rumen

22. "Origins of Permanent Inlets Separating Barrier Islands and Influence of Drowned Valleys on Tidal Records Along the Gulf Coast of Texas"

W. A. Price and Robert H. Parker

23. "Origin of Porosity in the Deep Woodbine/Tuscaloosa Trend, Louisiana"

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26. "Importance of Secondary Leached Porosity in Lower Tertiary Sandstone Reservoirs along the Texas Gulf Coast"

R. G. Loucks & Others, Bureau Econ. Geology, Austin

27. "The Queen City Formation in the East Texas Embayment: a Record of Riverine, Tidal, and Wave Dominated Processes"

D. K. Hobday & Others, Bureau of Econ., Geology, Austin

28. "Hydrology and Water Quality of the Eocene Wilcox Group in Relation to Lignite Development in East Texas"

C. D. Henry & Others, Bureau of Econ. Geology, Austin

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Charles W. Kreidler, Bureau of Ec. Geol., Austin

30. "Wave-Dominated Deltaic Systems of the Upper Cretaceous San Miguel Fm., Maverick Basin, S. Texas"

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31. "Exploration Methods of Discovery and Development of Lower Wilcox Reservoirs in Valentine and Menking Feilds, Lavaca County, Texas"

Stewart Chuber, Schulenburg, Texas

32. "Interpretive Well Logging Concepts Solve South Texas Formation Evaluation"

Walter H. Fertl, Dresser Atlas

33. "Structural and Stratigraphic Features in Late Cretaceous-Early Eocene Strata, Hainsville, Keechi & Oakwood Salt Domes, East Texas"

Edgar H. Buevara & Others, Bureau of Econ. Geology, Austin

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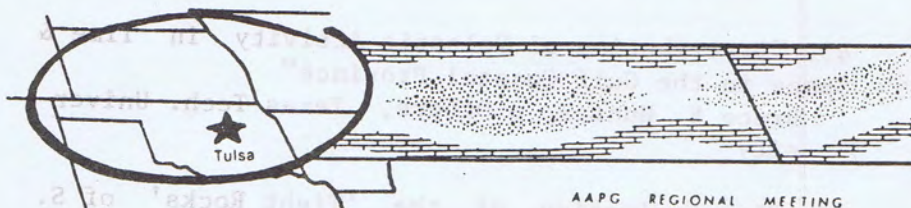
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45. "Distribution of Volcanic Activity in Time & Space in the Gulf Coastal Province"
Bruce E. Hunter & Others, Texas Tech. University
46. "Log Evaluation of the 'Tight Rocks' of S. Texas"
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53. "Evidence for Post Jurassic Tectonism in Eastern North America"

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AAPG REGIONAL MEETING

October 7-10, 1979

Mississippi Geological Society
P. O. Box 422
Jackson, Mississippi 39205

Attention: Lester Aultman, President

Gentlemen:

Tulsa Geological Society will host the AAPG Mid-Continent Regional Meeting, October 7-9, 1979. The convention will feature a Symposium on Pennsylvanian Sandstones of the Mid-Continent Region. Enclosed is pertinent information on this meeting.

We will appreciate any publicity you can provide this meeting. AAPG members of the participating societies will receive a copy of the mailer and Hotel Reservation Request (Williams Plaza only). For the benefit of the non-participating societies, we are enclosing additional mailers for those members who may wish to attend or wish to buy preprints.

Please note that many of the technical papers will appear as preprints in the Tulsa Geological Society Special Publication No. 1 entitled Pennsylvanian Sandstones of the Mid-Continent Region. Cost of this valuable publication is \$25. Some of members will want this Special Publication for their libraries. Again, we will appreciate any and all publicity you can give the meeting and the Tulsa Geological Society preprints. Many thanks.

Yours very truly,

Norman S. Morrissey

Norman S. Morrissey

NSM/mrc

P.S. Mailer to go to AAPG members in Participating Societies:

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- CALENDAR -

- SEPTEMBER 10 - M.G.S. KICKOFF BARBEQUE
Fowler Lodge, 4:30 P.M.
- SEPTEMBER 18 - Petroleum Auxiliary Member-
ship Coffee
3032 Culleywood Road
10 A.M. - NOON
- SEPTEMBER 25 - J.G.S. PIG ROAST
Fowler Lodge, 5:00 P.M.
- OCTOBER 10-12 - G.C.A.G.S. ANNUAL MEETING
San Antonio, Texas

NEWS

BULLETIN

mississippi geological society



VOLUME XXVII No. 2, October, 1979

M.G.S. NOON MEETING

October 2, 1979

Kipp C. Ferns and Mark E. York, Exploration Geologists with Cities Service Co., Jackson, will speak at the noon meeting of the Mississippi Geological Society on Tuesday, October 2, 1979. Their paper is entitled "Bayou Middle Fork Field, Claiborne Parish, Louisiana - Case History from Discovery to Waterflood" (See Abstract on P.).

Kipp obtained his B. S. degree from the University of Missouri at Rolla in 1952. He has been an exploration geologists with Cities Service for 26 years, the last 16 in Jackson.

Mark obtained his B.S. and M.S. from the University of Tulsa in 1968 and 1975, respectively. He has been with Cities Service as an exploration geologist for 10 years, the last 1½ in Jackson.

The meeting will be held at the Capital City Petroleum Club. The tab is \$5.00.

Call reservations in to T. C. Rader at no later than noon Monday, October 1, 1979.

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PRESIDENT'S NOTES

I heard several people comment at our barbeque that it seems to be getting better every year. I'll have to admit that it was a very good meeting and was well attended. The reason it gets better is because a lot of people put a lot of effort into this. I would like to take this opportunity, on behalf of the Society, to thank Datalog for their contribution and also, as usual, Haliburton for theirs. Sometimes you can get in trouble by calling names but I would like to take a chance on this and say a special thanks again to T. C. Rader who was responsible for putting this all together and I know for a fact he put in some hard hours of work to make this a success. I would also like to say thanks to Sara Childress with Larco and Glynn White with Geotech, both of whom I saw working very diligently. Hard work like they put in usually will make anything a success.

Our Red Book committee is hard at work and feels that some supplements should be ready in the next couple of months. These maps are a result of last year's committee and we are already working on new maps for this year. Again I would ask that if you can be of help to this committee when they call upon you, please do so.

As you can see our October meeting will be a week early because of the CGAGS convention which will be in San Antonio, Texas, beginning October 10, 1979. Our speaker, Kip Ferns, is considering this a warm-up since he will be giving this same talk at the convention the next week. I hope that each of you will be able to come to the meeting and please bring a friend or a new member or an old member who needs to be reactivated.

PHILLIP REEVES

Potential Gas Agency
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JACKSON GEOPHYSICAL SOCIETY

Don Foulkes with Teknica will discuss "Seislog
Applications in Carbonate and Clastic Environ-
ments" on October 15, 1979, at Primos Northgate.
Happy hour begins at 5:30 with dinner at 6:30.

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ABSTRACT

BAYOU MIDDLE FORK FIELD - (SMACKOVER)

CLAIBORNE PARISH, LOUISIANA

A Case History: Discovery

to Waterflood

by

C. Kipp Ferns

Mark E. York

Bayou Middle Fork Field, Claiborne Parish, Louisiana is located in North Central Louisiana near the Arkansas-Louisiana border in an area known as the "State Line Trend" of the Upper Jurassic Smackover Formation. Smackover production in the area is associated with a complex fault system masked by approximately 10,000 feet of younger sediments. A geophysical program combined with geological studies indicated a faulted deep seated E-W trending anticline. Based on this evidence, Cities Service Company drilled a test well on the structure resulting in the discovery of the Smackover reservoirs at Bayou Middle Fork Field in March, 1975.

Core and sample studies made as the field developed showed the Smackover formation at Bayou Middle Fork Field to be a limestone composed mainly of oolites, hardened pellets, pisolites, oncolites, and micrite. This limestone has been divided into three units, designated as the Smackover A, B, and C. The general environmental setting that produced these sediments varied from low to high energy conditions over a broad shallow, gradually south sloping marine shelf. This environmental setting underwent continual minor sea level fluctuations and structural changes producing an interfingering and mixing of the various carbonate sediments. One major change occurred as sea level

completely receded. The shelf was exposed to supratidal conditions which resulted in the deposition of evaporitic and continental sediments. This regression ended Smackover "C" deposition and produced the Buckner "B" member of the stratigraphic section. This was followed by a partial transgression and subsequent regression resulting in the Smackover "B" and "A" being deposited in an off-lap sequence. This second withdrawal of the sea ended Smackover deposition and again produced conditions for accumulation of supratidal and continental sediments.

Porosity preserved within these oolitic rocks is primary intergranular which has been enhanced by leaching of the oolites. Effective porosity varies from a low of 8% to a high of 23.7% while permeability ranges from less than 1 md to 270 md. During early development of the field, the porosity and water values from log analysis indicated the possibility of substantial water production; however, as wells were completed no water was produced. From scanning electron microscope and petrographic work this was explained by the presence of micro porosity containing irreducible water.

Smackover production at Bayou Middle Fork Field is from three separate reservoirs, the Smackover "C", and upper and lower "A". The lower Smackover "A" reservoir is the largest of the three, containing volatile oil, that, through primary production would be produced by solution gas drive, producing only 20% of the oil in place. It was determined that a pressure maintenance system would be necessary to recover the maximum amount of hydrocarbons. A water drive system was chosen as the most favorable means to accomplish pressure maintenance. It is estimated that an additional 20% of the oil in place will be produced by this water flood program.

MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING
September 21, 1979

Meeting Place: Library, Capital City Petroleum Club

Members Present: Phil Reeves, Marshall Kern, Phil Gunter,
Steve Oivanki, Sarah Childress

Meeting was called to order at 1:50 P.M.

Minutes from the August 16th meeting were read and approved.

Sarah Childress reported that the 1983 GCAGS Convention will be held in Jackson October 11th-15th. The Holiday Inn Downtown will be the headquarters. She noted that the GCAGS will help sponsor students attending the San Antonio convention with donations of \$10 per student per night for two nights. Phil Gunter motioned, Marshall Kern seconded, that MGS sponsor the students with 1-1/2 times the GCAGS contribution. Motion passed.

The Red Book Committee reported that 15 fields should be ready to print in a few weeks. The sales price of the new supplement will be deferred until the final cost is known. It was suggested that a notice be sent to other societies for publication when the supplements are printed.

At the next regular meeting Jerry Zoble will present the Larry Boland scholarship fund to the membership for discussion and a vote.

Marshall Kern announced that he has at least two sponsors for an improved bulletin cover. Bennedetti is checking on the costs for upgrading the bulletin.

191 members and guests attended the fall Bar-B-Que.

28 new members and 15 new student members were approved.



THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS
P. O. Box 979
Tulsa, Oklahoma 74101

MEMORANDUM

TO: Mr. Phillip R. Reeves, President
Mississippi Geological Society

FROM: Louis C. Bortz, Chairman, AAPG House of Delegates

DATE: August 21, 1979

It is essential that Headquarters' records of Delegates and Alternates correspond with each Society's. The following members are listed as representing your Society. If there are any corrections or changes, please make them on the attached copy and return it to AAPG Headquarters by September 30, 1979. Your cooperation is greatly appreciated.

DELEGATES

Charles Henry Williams

Nestor William Blanco

ALTERNATES

John Matkin Richard

Term ends June 30

1981

1982

Term ends June 30

1982

Oil and Gas Fields of the Four Corners Area: Editor, Jim Fassett, Four Corners Geological Society, 726 pages, 243 field papers, \$75.00 (includes postage and handling).

This work is the first compendium of the oil and gas fields of the Four Corners area. Field papers range from one to eight pages and average about three pages in length. Each paper contains a detailed data page, giving the vital statistics for each field, and production tables and production graphs giving the number of wells by year, annual production, and cumulative production. Illustrations for most papers include structure contour maps, net pay or porosity isopachs, geologic cross sections, and type logs through the pay zones. Other papers in the book discuss carbon dioxide, geothermal energy, a gas storage project, the history of the petroleum industry in the region, and the stratigraphy of the producing formations in each state. Lists of discovery wells keyed to index maps, by state, and detailed stratigraphic nomenclature charts for both the San Juan and Paradox Basins are also included. Field papers include 13 in northeast Arizona, 25 in southwest Colorado, 2 in Nevada, 153 in northwest New Mexico, and 50 in southeast Utah. Careful attention has been given to the use of correct formal stratigraphic nomenclature throughout the book. Format is sturdy three-ring binders in two volumes with handsome embossed covers depicting Shiprock as half bird-half rock. (The cover design, based on Navajo legend, continues a tradition of outstanding cover art by the Four Corners Society.) This publication costs less than \$7.00 per pound (weight: 11 pounds); cheaper than lox even.

PETROLEUM AUXILIARY

The Petroleum Auxiliary will hold a style show and luncheon October 25 at 11:30 at the Jackson Country Club. Mrs. Ronald T. Halfacre is the chairman with Mrs. Riley Hagan, Mrs. J. Larry Kennedy, Mrs. Benton R. Vernon and Mrs. Billy R. Powell, committee members.

Library
Bureau of Geology
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Jackson, MS 39216

PUBLICATIONS ON MISSISSIPPI GEOLOGY

The Bureau of Geology Library has received over 40 boxes of the following U.S. Geological Survey publications. If you are interested in receiving a set of these publications or would like select numbers, return this questionnaire with your name and address. The materials are free, unused, and in good condition.

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Quaternary aquifers in the Mississippi Embayment: USGS Prof. Paper 448-E, 15p. + maps.
- 2) Cushing, E.M.; Boswell, E.H.; Hosman, R.L. 1964
General geology of the Mississippi Embayment: USGS Prof. Paper 448-B, 28p. + maps.
- 3) Cushing, E.M. and others. 1970
Availability of water in the Mississippi Embayment: USGS Prof. Paper 448-A, 13p. + maps.
- 4) Harvey, Edward J.; Golden, H.G.; Jeffrey, H.G. 1965
Mississippi River Water-Supply

- water resources of the Pascagoula area, Mississippi. USGS Prof. Paper 1763, 135p. + maps.
- 5) Lang, Joseph W. 1972
Geohydrologic summary of the Pearl River Basin, Mississippi and Louisiana:
USGS Water-Supply Paper 1899-M, 44p. + maps.
- 6) Newcome, Roy Jr. 1967
Development of ground-water supplies at Mississippi Test Facility,
Hancock County, Mississippi: USGS Water-Supply Paper 1839-H. 28p.
- 7) Newcome, Roy Jr.; Shattles, D.E.; Humphreys, C.P. Jr. 1968
Water for the growing needs of Harrison County, Mississippi: USGS
Water-Supply Paper 1856, 106p. + maps.
- 8) Payne, J.N. 1968
Hydrologic significance of the lithofacies of the Sparta Sand in
Arkansas, Louisiana, Mississippi, and Texas: USGS Prof. Paper 569-A,
17p. + maps.
- 9) Payne, J.N. 1970
Geohydrologic significance of the lithofacies of the Cockfield Formation
of Louisiana and Mississippi and of the Yegua Formation of Texas:
USGS Prof. Paper 569-B, 14p. + maps.
- 10) Speer, Paul R. and others. 1964
Low-flow characteristics of streams in the Mississippi Embayment in
Mississippi and Alabama: USGS Prof. Paper 448-I, 47p. + maps.
- 11) Wasson, B.E. 1971
Water resources of the Big Black River Basin, Mississippi: USGS
Water-Supply Paper 1899-F, 29p. + maps.

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-CALENDAR-

- OCTOBER 2 - MGS NOON MEETING
Smackover Room
Petroleum Club
- OCTOBER 10-12 G.C.A.G.S. ANNUAL MEETING
San Antonio, Texas
- OCTOBER 15 - J.G.S. MEETING
Primos Northgate
- OCTOBER 25 - PETROLEUM AUXILIARY
Style Show
11:30 A.M.
Jackson Country Club

NEWS

BULLETIN

mississippi geological society



VOLUME XXVII No. 3, NOVEMBER, 1979

Guest Speaker:

Noon Meeting

Nov. 6, 1979



Ram S. Saxena

GEO CONSULTANTS INTERNATIONAL, INC.

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PRESIDENT'S NOTES

The GCAGS convention in San Antonio is now history and I have already received a request for papers to be presented at the 1980 convention which is to be held in Lafayette. If anyone is interested in giving a paper, please contact me. I will be glad to give you a form to fill out for this. As you may have seen in earlier bulletins in the minutes of our Board of Director's meetings we will be the host for the convention in 1983 and our GCAGS representative, Sara Childress, is already hard at work in making plans for this. I am amazed at how much work there is to have one of these but in talking with Sara it looks like we will be well prepared and hopefully things will run smoothly for us.

Elsewhere in the bulletin you will see a list of the committee members who have been selected on the Larry Boland Scholarship Committee. Hopefully we can have a progress report from this committee at our December meeting.

You will notice a difference in the looks of the bulletin and the type of paper used for this issue. We will continue improvements on a month to month basis until we feel satisfied. As you may suspect there will be an increase in the printing cost to improve the looks of the bulletin and I would like to take this opportunity to thank Location Sample Service of Jackson who has agreed to pick up the tab on this for the entire year.

We are expecting another good turn out for our next meeting so please be sure to call in your reservations. See you then.

PHILIP R. REEVES

NEW MEMBERS

Roswell K. Barranco - L.L.& E., New Orleans
Douglas D. Behm - Warrior Drlg. & Engr., Tuscaloosa
Jerry P. Burkes - Waterways Expr. Station, Vicksburg
William E. Dunaway - Lear Petroleum Expl., Houston
Edwin L. Geissler - Ladd Petroleum, New Orleans
George S. Harris - Union Oil Company, Jackson
Dwight E. Roberts - Petro-Lewis, Denver
Kenneth M. Skinner - Transco, Houston
Mark E. York - Cities Service, Jackson

M.G.S. Noon Meeting
November 6, 1979

Ram S. Saxena, president of Geo Consultants International, Kenner, La., will be the guest speaker at the noon meeting of the Mississippi Geological Society, on Tuesday, November 6, 1979. His talk will be "Exploration Model and Subsurface Recognition Criteria for Reworked Deltaic Sandstone Reservoirs - An Excellent Stratigraphic Trap" (Abstract in Bulletin).

Ram was born in Lucknow, India and received his B.S. and M.S. from Lucknow University. He received his PhD from Louisiana State University in 1970. He worked with Texaco from 1970 to 1977 as Geologist and District Stratigrapher for the South Louisiana, Mafla and Atlantic Coast areas. He was Division Exploration Manager for Superior Oil Co. from March, 1977 to June, 1978, and is now president of Geo Consultants International, Inc.

His work has included extensive study of modern deltas, Carboniferous deltas of the eastern United States, the Tertiary and Quaternary of the Gulf Coast and the Tertiary Niger deltaic sequence.

The meeting will be held at the Capital City Petroleum Club. The tab is \$5.00. Call reservations in to T. C. Rader at 969-3286 no later than noon, Monday, November 5, 1979.

EXPLORATION MODEL AND SUBSURFACE RECOGNITION
CRITERIA FOR REWORKED DELTAIC SANDSTONE
RESERVOIRS - AN EXCELLENT
STRATIGRAPHIC TRAP

Ram S. Saxena

Reworked deltaic sands are beach-barrier sand bodies which are produced by the reworking of abandoned deltaic lobes. The facies association of these sand bodies makes them ideal stratigraphic traps and although abundant hydrocarbons are trapped in this type of sandstones, their genesis is seldom understood in the petroleum world because of a lack of understanding of the model.

Criteria and models are developed for the recognition of reworked deltaic sand bodies from subsurface control by comparing a Holocene analog from the eastern periphery of the modern Mississippi delta with an ancient example from the Carboniferous of the northern Appalachian plateau. A simulated seismic model and a subsurface prospect example is presented.

Reworked deltaic sands are always enclosed in a unique depositional package which is referred to here as "reworked deltaic sand sequence." This sequence comprises of four depositional components. From base to top, these are prodelta shale, distributary mouth bar sandstone, reworked deltaic sandstone, and transgressive marine shale. Each of these depositional components possess varying lithological characteristics, geometries, thickness, porosity, permeability and sorting, and these variations show up characteristically on electrical logs and seismic lines. The basal prodelta shales are generally very thick (greater than 300 and often 3000 or more feet). These contain in their upper parts extensive land derived organic detritus and exhibit a

sequence of coarsening upwards grain size and deposition in shallowing waters. The prodelta shales are overlain by distributary mouth bar sandstones which also exhibit a coarsening upwards grain size, have better sorting in their upper parts, and possess greater thickness (200 to 400 feet in the modern delta), and relatively small aerial extent (2 miles to 4 miles by 2 to 6 miles), whereas the overlying reworked deltaic sands are very well sorted and clean, are 20 to 40 feet thick in the modern delta, have smaller widths (0.5 to 0.25 miles in the modern), and a very wide lateral extent along depositional strike (5 to 20 miles). Shales overlying the reworked deltaic sands are very different from the basal prodelta shales. These are generally very calcareous, contain abundant oyster fragments, and reflect deposition initially in shallow brackish waters and later in deep open marine waters.

In a cross-section parallel to depositional strike, a unique arrangement of depositional environments is seen in reworked deltaic sand sequences. In the middle part of the delta, the distributary mouth bar sands and the reworked sands show up as one massive sand body whereas, moving laterally away, the two sand bodies get separated with a transgressive marine shale in between, and the vertical interval separating the two sand bodies increases proportionately to the distance from the middle of the delta lobe. This relationship is produced due to the original dip and thickness variations of the older distributary mouth bar. The middle and thicker part of the mouth bar stays within the reach of waves and currents for a longer period of time, and this is the part which is mainly reworked and modified. The flanks of the mouth bar are thinner and these drown below the reach of waves and currents earlier.

Reworked deltaic sandstones are ubiquitous in the geologic record and the geometries and areal extent of the two sand bodies of this sequence are so different that an accurate development and mapping of such reservoirs would almost be impossible without a precise knowledge of their origin.

The contrasting lithologic boundaries and the geometries of various depositional units of reworked deltaic sand sequences show up very nicely on subsurface logs and seismic data. A synthetic seismic model for the reworked deltaic sand sequence will be presented along with several type sections from actual subsurface seismic data. It can be easily seen that without the knowledge of the geologic model, much of this seismic data will not be correctly mapped. It is stressed that in all our exploration efforts an attempt should be made to utilize a multidisciplinary approach by combining all facets of modern technology to understand and synthesize the subsurface geological and geophysical data before drilling the well. It is especially emphasized that explorationists should diverge from the age old structural methods of exploration which lately, are not paying very lucrative returns - and start an era of creative stratigraphic-geologic exploration using a combination stratigraphic-structural approach for the analysis of all subsurface data.

-Editor's Note-

We are in the process of upgrading the M.G.S. bulletin by adding a few pictures and changing the cover. A special thanks is extended to Mr. Bob Legate and Location Sample Service for picking up the additional costs.

The next Jackson Geophysical Society Meeting will be Monday, November 19, 1979, at Primos Northgate. The featured speaker will be Billy W. Aud, Technical Advisor-Geophysics at Dresser McGobar in Houston, Texas. He has 26 years experience as an Exploration Seismologist with several contract geophysical companies. Since 1971, Mr. Aud has been instrumental in originating and developing techniques for predicting zones of abnormal pressures and relative lithology from seismic data. The abstract for his talk follows. Social hour is at 5:30 and dinner is at 6:30. Please call reservations by November 16th at 932-1897.

'Origin of Pressure' for Geophysicists and
Predictability from Seismic Data
Abstract

In some geologic environments seismic velocity data can be used to predict zones of high abnormal pressure and relative lithology prior to drilling. It is important to understand the origin of abnormal pressure, either higher or lower than normal hydrostatic pressure, when making these predictions. Several different conditions for the origination of high abnormal pressure are explained. Seismic data, illustrating some of these conditions and the interpretive approach are discussed. One example is from Central Louisiana

AAPG NEWS

Washington, D.C. . . . The president elect of the American Association of Petroleum Geologists (AAPG) testifying before the Senate Committee on Energy said today that the U.S. cannot develop any major new energy use patterns in less than 15 years.

Robey H. Clark, a vice president of Diamond Shamrock Corp. Amarillo, Texas, testified as a representative of the 22,500 members of AAPG regarding amendments to the Antiquities Act of 1906 and amendments to the Federal Land Policy and Management Act of 1976.

He told the Senate Committee that his colleagues in AAPG are worried that arbitrary land withdrawals by executive action will prevent the finding and development of major petroleum accumulations and greatly weaken the nation's ability to survive.

"Coal usage is hamstrung by shortages of equipment and by enormous transportation problems and nuclear energy has been dealt blows from which it cannot recover in the near term," Clark said.

He also said that the tooling up and technology for large scale tar sand development and implementation of a shale oil industry would require many years.

"No matter how many or how eloquent the words--nothing will replace petroleum in the near and middle term," Clark said. "Therefore, we must do all that we can to develop our own supplies, use as little as we can, importing what we must in order to preserve our economy, our social institutions, and our national security.

"We cannot afford arbitrary land withdrawals. S. 1176 is designed to prevent arbitrary land withdrawals and I support its passage."

Clark pointed out that, at the present time, Alaska is the only state in the U.S. where oil wells have the daily capacity to challenge those from the better areas of foreign countries.

"Perhaps the most important Alaskan statistic is that about one-third of the proved reserves of crude oil in the U.S. are in Alaska," Clark said.

"Incomprehensibly, it is in Alaska where there is so much opportunity and so little exploration that Interior Secretary Andrus over-rode the will of Congress. Citing the Federal Land Policy and Management Act of 1976 as authority, he arbitrarily withdrew 11,000,000 acres of land from the inventory of lands which exploration permits might be granted.

"President Carter made it a double coup-de-grace when he permanently withdrew some of these same acres by using the Antiquities Act of 1906 as his authority.

"Some of these newly designated national monument lands are located in sedimentary basins in frontier areas that are virtually unexplored for petroleum."

Clark said that to withdraw from Petroleum exploration lands in unexplored sedimentary basins is difficult to understand under any circumstances.

"To do so at a time when our nation is staggering under the financial burden of imported oil and unfavorable balances of payments is not in the best interest of the nation," he added.

Clark suggested that as an alternative to withdrawal that Secretary Andrus post the recently withdrawn lands plus the Arctic National Wildlife Range of Alaska for competitive bidding for oil and gas leases.

"This might bring enough money to the Federal Treasury from bonuses and royalties to go a long way toward getting a synthetic fuels program started," said Clark.

"No person in the U.S. should possess what amounts to "imperial authority" to exclude from use of the nation, huge areas of land which may contain great mineral wealth. Therefore, as a practicing geologist representing the world's largest geological society, I strongly support S. 1176 which is designed to place sensible restrictions on the authority of the executive branch to withdraw large areas of land from petroleum and mineral exploration."

TRAVEL PLANS INTERNATIONAL
1301 West 22nd Street
Oak Brook, Illinois 60521

Contact: Roger Hynes, 312/986-0330

FOR IMMEDIATE RELEASE

TRAVEL PLANS NAMED TRAVEL COORDINATOR FOR GEOLOGICAL CONGRESS IN PARIS

Travel Plans International headquartered in Oak Brook, Illinois, has been designated the exclusive representative in travel coordinator for the United States to handle travel arrangements for geologists planning to attend the 26th International Geological Congress in Paris July 7-17, 1980.

Travel Plans can immediately confirm hotel space at specific hotels of different categories. This feature is of particular value to groups or friends who wish to stay in the same hotel.

Packages are available including hotel accommodations, air transportation, Paris and Versailles sightseeing plus an evening Seine River cruise on the famed Bateaux Mouches and a spectacular Sound and Light performance at Les Invalides.

Optional two and four day side trips are available to Chateaux Country, Burgundy Region, Normandy and Mont St. Michel plus a gourmet dinner cruise on the Seine by Bateaux Mouches.

Since space is very limited on the low promotional air fares, it is recommended that reservations be made now.

For reservations or further information contact Travel Plans, 1301 West 22nd Street, Suite 210, Oak Brook, Illinois 60521; phone: 312/986-0330.

AUGUST PROGRESS REPORT

MISSISSIPPI

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	3	0	14
U. Cret.	0	0	4
L. Cret.	0	0	2
Jurassic	0	0	6
Paleozoic	0	1	1

Exploratory Footage: 275,709'

<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	6	0	6
U. Cret.	3	0	3
L. Cret.	1	2	0
Jurassic	0	0	1

ALABAMA

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	0	0	3
Paleozoic	0	3	3

Exploratory Footage: 67,440'

<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	0	0	1
Paleozoic	0	5	2

DISCOVERIES

Dent Place (8-06-79)

Callon Petroleum

#1 Gates-Kelly

34-10N-1W, Jefferson Co., Miss.

TD 6010 (Wilcox)

2nd Wilcox pfs 3797 - 3800

P/9BO + 130 BWPD, 30° Gr.

Unnamed (8-09-79)

Warrior Drlg. & Eng.

#1 Gravlee 20-9

20-17S-12W, Fayette Co., Ala.

TD 4131 (Paleozoics)

Carter pfs: 3764-80 (O/A)

FARO/ 1672 MCFGPD, 18/64"ck, 850# FTP.

Unnamed (8-11-79)

Hughes & Hughes & Warrior

#1 Wheeler-Boyett 25-7

25-15S-15W, Lamar Co., Ala.

TD 3650 (Paleozoics)

Carter & Lewis Pfs (comingled) 2975-3530 (O/A)

FARO/789 MCFGPD, 15/64" ck, 620# FTP.

Magnolia Plantation (8-12-79)

Freedom Oil

#2 Armstrong "MP"

11-5N-2W, Adams Co., Miss.

TD 6860 (Wilcox)

Jenkins Sd. Pfs: 6581-84

FARO/108BOPD, 8/64" ck, 400# FTP, 250/1GOR

Unnamed (8-15-79)

Hughes & Hughes & Warrior

#1 Ogden 19-1

19-14S-15W, Lamar Co., Ala.

TD 3204 (Paleozoics)

Carter Pfs: 2505-10

FARO/405MCFGPD, 16/64"ck, 275# FTP.

North Caledonia (8-19-79)

Elf Aquitaine O & G

#1-33 Williamson

33-15S-17W, Lowndes Co., Miss.

TD 5296 (Paleozoics)

Carter Pfs: 4600-62 (O/A)

FARO/3000 MGFGPD, 18/64" ck, 1592# FTP

Town Creek (8-24-79)
El Toro Oil
#1 Armstrong "CP"
27-5N-2W, Adams Co., Miss.
TD 6860 (Wilcox)
Minter SD Pfs: 6735-45
FARO/10BOPD, 10/64" ck, 10# FTP, 40°Gr,
150/1 GOR.

Watson Creek (New Pay) (8-25-79)
Hughes & Hughes & Warrior
#1 Pennington-Hollis 32-11
32-14S-15W, Lamar Co., Ala.
TD 3313 (Paleozoics)
Lewis Pfs: 3217-64 (O/A)
FARO/1186 MCFGPD, 16/64"ck, 805# FTP

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M.G.S. BOARD MEETING
October 19, 1979

Present: Philip Reeves, Marshall Kern, Steve Oivanki, Phil Cook, Phil Gunter, Sarah Childress, Les Aultman, Steve Benedetti

Sarah Childress reported that the 1983 GCAGS convention in Jackson will be October 25-29 instead of October 11-15 because of a conflict. The Auditorium, Planetarium, Trade Mart and other buildings are available if needed. A fish fry and possible Mississippi boat trip to Natchez were discussed.

Steve Benedetti reported that the cost for photo plates in the bulletin is \$12.00 each.

Philip Reeves noted that there will probably be two continuing education courses this year.

Les Aultman suggested that the cost and logistics of possible M.G.S. sponsored field seminars be investigated.

Philip Reeves reminded the board of the need to set up a scholarship committee for the Larry Boland Scholarship. It was voted on that the 1st Vice President be permanent chairman to provide for continuity. The following members have consented to serve on the committee:

Marshall Kern - Chairman
Jerry Zoble
H. Vaughn Watkins
William H. Moore
Allan Jackson



Gulf Coast Association of Geological Societies

Convention - Lafayette, Louisiana
October 15-17, 1980

Call For Papers!

You are invited to participate in the 1980 GCAOS Convention in Lafayette by submitting a paper for presentation. For the broadest possible appeal, the convention will have no theme; thus any paper will be cheerfully considered.

Papers will be presented orally at the convention and published in the *Transactions*.

Abstract Deadline: February 15, 1980

Manuscript Deadline: April 15, 1980

Program Committee Co-Chairmen

Walter Doble (518) 237-0647

Roy Naumann (518) 234-4551

P. O. Box 51682

Lafayette, Louisiana 70505

If you are seriously considering submitting a paper, please let us know now by providing us with the following information mailed to the above address.

Name:

Address:

Telephone:

Title of Paper:

DAVID K. BROOKS 333 Lakeland Towers 981-5722 1755 Lelia Drive Jackson, Miss. 39216
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Telephone (601) 932-1410

P. O. Box 9733 — North Station

JACKSON, MISSISSIPPI 39206





MISSISSIPPI GEOLOGICAL SOCIETY
P. O. BOX 422
JACKSON, MISSISSIPPI 39205

Frederic F. Mellen
Mellen Geological Assoc., Inc.
702-6 Standard Life Bldg.
Jackson, MS 39201

R. D. Menefee

-CALENDAR-

- November 4-8 - S.E.G. CONVENTION
New Orleans
- November 6 - M.G.S. NOON MEETING
Smackover Room
Capital City Petroleum Club
- November 19 - J.G.S. MEETING
Primos Northgate

NEWS

BULLETIN

mississippi geological society



VOLUME XXVII No. 4, December, 1979

Frederic F. Mellen
Mellen Geological Assoc., Inc.
702-6 Standard Life Bldg.
Jackson, MS 39201

NOON MEETING

The monthly noon meeting of the Mississippi Geological Society will be held on Tuesday, December 4, 1979, in the Smackover Room of the Capital City Petroleum Club. The scheduled speaker is Jack Tlapek from El Dorado, Arkansas. His topic will be "Mount Vernon Field": What is it? How was it found?

Jack received his BA in geology in 1959, and his MA in geology in 1962, both from the University of Missouri at Columbia. He was employed by the California Company in Jackson, Miss. for 2 years, and since 1963 has been an independent geologist, associated with Loyd Cardell since 1968.

Please call reservations in to T. C. Rader at 969-3286 no later than noon, Monday, December 3, 1979.

PLEASE NOTE AN INCREASE IN THE MEAL CHARGE TO \$6.00.

MISSISSIPPI GEOLOGICAL SOCIETY

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DON TURNER	-	- UNION OIL

The following speakers and dates have been scheduled by Gerald Kinsley for noon meetings. Please note on your calendars.

December 1, 1979 - John Hasek, Independent, El Dorado, Arkansas; "Mr. Vernon Field".

January 8, 1980 - Carlo Christian, a Ken Martin, Martin Exploration Company; "The Lower Tertiary Trend of South Central Louisiana - You Won't See Nothing Until You Have Seen the Tertiary".

February 5, 1980 - Matthew C. Brown, Shell Oil Corp. & Arthur W. Davies, Miss. School of Mines; "Upper Mississippian Basins in the Gulf of Mexico Basin of Mississippi & Alabama".

March 5, 1980 - Dr. J. M. Curtis, Houston, Texas; "The Role of the Gulf of Mexico in the Evolution of the Gulf of Mexico Basin".



- BUES -

Please check your records to be sure dues are paid. All delinquent members will be dropped from the mailing list on January 1, 1980. If you have any questions, call Steve Olanski with Canadian Oil (601) 368-0314.

FUTURE SPEAKERS

The following speakers and dates have been scheduled by Gerald Kinsley for noon meetings. Please note on your calendars.

December 4, 1979 - John Tlappek, Independent,
El Dorado, Arkansas: "Mt. Vernon Field".

January 8, 1980 - Carlo Christina & Ken
Martin, Martin Exploration Company: "The
Lower Tuscaloosa Trend of South Central
Louisiana - You Ain't Seen Nothing Until You
Have Seen the Tuscaloosa".

February 5, 1980 - Matthew C. Broussard,
Mobil Oil Corp. & Arthur W. Cleaves, Miss-
issippi Mineral Institute: "Upper Missis-
sippian Deltas in the Black Warrior Basin of
Mississippi & Alabama.

March 4, 1980 - Dr. Doris M. Curtis, Rob-
ertson Research (U.S.) Inc.: Topic to be an-
nounced.

April, 1980 - Ladies Night.

May, 1980 - Spring Bash.

- DUES -

Please check your records to be sure dues are paid. All delinquent members will be dropped from the mailing list on January 1, 1980. If you have any questions, call Steve Oivanki with Guardian Oil (601) 948-0579.

MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING
November 19, 1979

Members: Phil Reeves, Phil Cook, Phil Gunter,
Steve Oivanki, Steve Benedetti

Larry Baria has scheduled two continuing education courses for this year:

Feb. 11: Dr. Robert Berg will lecture on sandstone depositional environments.

March 27: Dr. Clyde H. Moore will lecture on carbonate diagenesis.

Phil Cook reported no success so far in his check on possible field seminars. It was suggested that the logistics involved in an extended field seminar outside of the local area as well as competition from national sponsored trips would be difficult to overcome. A local trip such as the Black Warrior trip would be more feasible.

It was decided that the price of the meal for the noon meetings should be raised to \$6.00 to cover a similar increase charged by the Petroleum Club for its buffet meal.

Oivanki reported that 66 members have not paid their current dues. Final notices will be sent to these members, and all members unpaid after January 1, 1980, will be dropped from the roll.

Stephen Oivanki

- PETROLEUM AUXILIARY -

The Petroleum Auxiliary will hold a Christmas Sherry Party on December 11, 1979, from 4:00 P.M. - 6:00 P.M. at the home of Mrs. Ronald C. Neimann at 100 Shelly Lane.

Hostesses for the gathering are: Mrs. C. Ray Phillips - Chairman, Mrs. Donald Smith, Mrs. Jim Goodwill, Mrs. Sam Lake and Mrs. Tom Clements.

- NEW MEMBERS -

MICHAEL P. ARCHER - L.L. & E., New Orleans, LA.

RICHARD P. HANNUM - Florida Exploration Co.,
Jackson, MS.

KEITH E. JORDAN - Cities Service, Jackson, MS.

ANTHONY B. OWENS - Cities Service, Jackson, MS.

RONALD W. ROGERS - M. J. Systems, Denver, CO.

CHARLES R. SOMMERS - Forest Oil, Jackson, MS.

SEPTEMBER PROGRESS REPORT

ALABAMA

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	2	1	1
Paleozoic	0	1	3

Exploratory Footage: 69,432'

<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	1	1	0
Paleozoic	2	5	0

FLORIDA

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
L. Cret.	0	0	2
Jurassic	0	0	1

Exploratory Footage: 40,022'

MISSISSIPPI

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	1	0	12
U. Cret.	0	0	1
Jurassic	0	0	5
Paleozoic	0	0	2

Exploratory Footage: 181,898'

<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	4	0	11
U. Cret.	4	0	2
L. Cret.	0	3	1
Paleozoic	0	0	2

DISCOVERIES

Unnamed (9-01-79)

Southland Royalty

#1 Seay 31-1

31-16S-15W, Lamar Co., Ala.

T.D. 5106 (Paleozoics)

Carter Pfs: 4313-24

FARO/1,530 MCFD, 18/64" ck, 800#FTP.

Unnamed (9-05-79)

L. R. French, Jr.

#1 Heinmiller

7-7N-4W, Washington Co., Ala.

T.D. 16,865 (Jurassic)

Smackover Pfs: 16,193-295 (OA)

FARO/3,088 MCFD, 56 BCPD, 16/64" ck, 3338# FTP,

48.3° Gr, 38% H₂S & 16.9% CO₂

Unnamed (9-05-79)

Foley-Prescott

#1 Habas

48-7N-2W, Adams Co., Miss.

T.D. 6217 (Wilcox)

Benbrook Sd. Pfs: 6072 - 76½

P/8BOPD, 160 BWPD, 41° Gr.

Unnamed (9-06-79)

Midroc & Watkins

#1 May 27-10

27-10N-2W, Clarke Co., Ala.

T.D. 12,636 (Jurassic)

Smackover Pfs: 12,424-430

FARO/133 BOPD, 10/64 ck, 250# FTP, 400/1 GOR,

42° Gr.

Siwulpa Creek (9-13-79)

Pruet Prod. & Hughes & Hughes

#1 Pinkerton 8-9

8-9N-4W, Choctaw Co., Ala.

T.D. 13,852 (Jurassic)

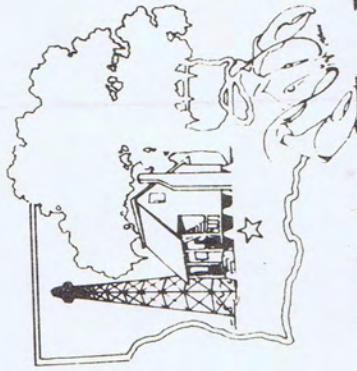
Smackover Pfs: 13,713-722

FARO/116 BOPD, 670 MCFD, 8/64" ck, 2600# FTP,

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Gulf Coast Association of Geological Societies

Convention — Lafayette, Louisiana
October 15-17, 1980

Call For Papers!

You are invited to participate in the 1980 GCAGS Convention in Lafayette by submitting a paper for presentation. For the broadest possible appeal, the convention will have no theme; thus any paper will be cheerfully considered.

Papers will be presented orally at the convention and published in the Transactions.

Abstract Deadline: February 15, 1980
Manuscript Deadline: April 15, 1980

Program Committee Co-Chairmen
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MISSISSIPPI GEOLOGICAL SOCIETY

P.O. BOX 422

JACKSON, MS. 39205

- CALENDAR -

December 4 - M.G.S. Noon Meeting
Capital City Petroleum Club

December 11 - Petroleum Auxiliary
Christmas Sherry Party
100 Shelly Lane

NEWS

BULLETIN

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HUGHES & HUGHES

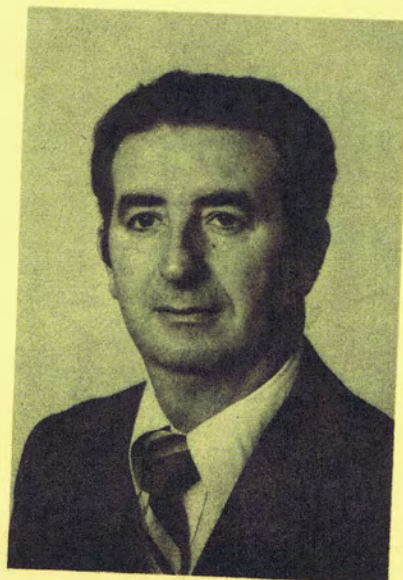
mississippi geological society

VOLUME XXVII No. 5, JANUARY, 1980



NOON MEETING
January 8, 1980

GUEST SPEAKER



CARLO C. CHRISTINA
Martin Exploration Company
New Orleans, Louisiana

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THE LOWER TUSCALOOSA TREND OF SOUTH CENTRAL
LOUISIANA OR "YOU AIN'T SEEN NOTHING
'TIL YOU'VE SEEN THE TUSCALOOSA"

The Tuscaloosa Trend of South Central Louisiana is one of the two most active and highly potential deep gas plays in the United States today.

The Trend covers a band 220 miles long and 30 miles wide. It extends from the Louisiana-Mississippi border northwesterly through Lake Pontchartrain to Baton Rouge and continues westerly through Beauregard and Vernon Parishes to the Louisiana-Texas border.

To date 17 new fields have been discovered, along with one potential new discovery and one field reservoir extension. Since the first Tuscaloosa discovery in 1975, more than 160 wells have been drilled to an average depth of 18,850' to test the Tuscaloosa sand section, which is found to be productive between 14,700' and 21,000'. There are more than 4 million acres now under lease in the Trend.

The play began in May, 1975, with the discovery of False River Field by Chevron's #1 Alma Plantation, testing gas at the rate of 20 million cubic feet per day from a Tuscaloosa sand at 19,800 feet. The Trend was confirmed six months later with the completion of Chevron's #1 S. L. 6646 as the discovery well for Rigolets Field, located approximately 120 miles southeast of False River Field near the Louisiana-Mississippi State line.

A major development occurred in August, 1977, when Chevron's #1 Parlange blew out at a depth of 21,346 feet. This well, located eight miles northwest of the False River discovery, was later brought under control and produced gas into a sales line for 60 days at the rate

of 140 million cubic feet of gas per day. This production rate clearly established excellent reservoir conditions to complement the giant structures, and a new deep gas frontier had been established. This discovery was named Judge Digby Field.

Several additional significant discoveries have been made with many wells having more than 100' of net pay with gross sand thicknesses of 1500' to 2300'.

High production rates have been established with several wells producing 15 million to 20 million cubic feet of gas per day, while other wells have tested 1000 barrels to 1500 barrels of distillate per day, along with 9 million cubic feet of gas.

Today potential reserves for the area are 30 trillion cubic feet of gas and 1.5 billion barrels of liquids.

The following is a list of G.C.A.G.S. officers elected at the annual convention in San Antonio this past October:

- President - Frank W. Harrison, Jr.
Independent, Lafayette, LA.
- Vice-President - Paul M. Strunk
Consultant, Corpus Christi,
TX
- Secretary - Jack W. Shirley
Marr Company, Lafayette, LA
- Treasurer - Robert A. Anderson
Independent, Lafayette, LA
- Past President - Edward C. Roy
Trinity University, San Antonio, TX
- General Chairman - Marvin A. Munchrath
Independent, Lafayette, LA

The monthly noon meeting of the Mississippi Geological Society will be held on Tuesday, January 8, 1980 in the Smackover Room of the Capital City Petroleum Club. The speakers will be Carlo C. Christina & Ken Martin with Martin Exploration Company. Their talk will be titled "The Lower Tuscaloosa Trend of South Central Louisiana - You Ain't Seen Nothing Until You Have Seen the Tuscaloosa."

Carlo Christina received his B.S. in Geology from Louisiana State University in 1951. He has been employed by Martin Exploration Company since February 1977, serving as Senior Vice President in charge of Exploration. For the sixteen years prior to that time he was employed by Exchange Oil and Gas Corporation and its predecessors as Senior Vice President in charge of Exploration. He had previously worked as District Geologist for Southern Natural Gas Company in New Orleans for six years before joining Exchange.

-ANNOUNCEMENT-

Millsaps College Geology Department will offer a course in Petroleum Geology (Geology 302) in the Spring of 1980. The course is designed to acquaint students with geologic structures and stratigraphy as applied to petroleum geology. Depositional environments and basinal control of oil generation and entrapment will also be emphasized. A Mississippi oil field will be followed through its various stages of development utilizing the tools and methods standard to the industry. Two lecture hours and two laboratory hours. Three hours credit.

Prerequisite: Geology 101-102, 211, 212 or consent of the instructor. Course may be taken for regular academic credit or may be audited.

Offered Spring, 1980, Tuesday & Thursday evenings 6 - 8 P.M.

The Larry F. Boland Memorial Scholarship Fund Committee has been gathering information to determine how the fund should be set up in order to meet IRS regulations and to provide sufficient income from the trust to offer scholarships at the four colleges and universities that have schools of geology in Mississippi.

The committee will make recommendations at the January meeting for the society to vote on. For those members that are unable to attend this meeting, the recommendations are briefly stated herewith.

Name - The Larry F. Boland Memorial Scholarship Fund Trust, Inc.

Goal - \$100,000 minimum (at 10% interest this would provide \$10,000 per annum or \$2,500 per student per year).

Trustee - Committee comprised of 1st Vice President (president-elect) of the Society as Chairman, Society President (as past chairman of Committee) and three additional members to be named by the Society Executive Committee.

Criteria for selection of Applicants:

- (1) A Junior or Senior Geology Major.
- (2) Academic Average of 3 (B) in 4.0 system
- (3) Geological curiosity.
- (4) Responsible, dependable and of high ethical character.
- (5) Ability to communicate.
- (6) Need for financial assistance.

The trust would be fiscally managed by one of the local banks with disbursements being made only on authority of the "Trustee".

It will be necessary to draw up a corporate charter to meet IRS requirements for a tax exempt corporation so that donar's contributions are tax deductible. The cost of incorporating will be approximately \$1,000 plus an initial deposit of \$200 by the Society.

OCTOBER PROGRESS REPORT

ALABAMA

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	1	0	4
Paleozoic	0	6	2
Exploratory Footage: 94,942'			

<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	0	1	1
Paleozoic	0	10	3

FLORIDA

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Lwr. Cret.	0	0	2
Exploratory Footage: 23,262'			

<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Lwr. Cret.	0	0	1

MISSISSIPPI

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	1	0	15
U. Cret.	0	0	2
Lwr. Cret.	0	1	2
Jurassic	0	1	2
Paleozoic	0	0	1
Exploratory Footage: 191,506'			

<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	7	1	11
U. Cret.	9	0	3
Lwr. Cret.	1	6	2
Jurassic	1	0	0
Paleozoic	0	0	1

-DISCOVERIES-

Unnamed (8-1-79)
Strahan Oil & Gas
#1 Walker
23-6S-9W, Lawrence Co., Ala.
T.D. 1259 (Paleozoics)
Trenton Lime OH 1094-1259
FARO 36MCFGPD, 6/64" ck, 148# FTP

Unnamed (8-1-79)
Strahan Oil & Gas
#1 Craig
14-6S-9W, Lawrence Co., Ala.
T.D. 116S (Paleozoics)
Trenton Lime OH #680-1165
FARO 89 MCFGPD, 6/64" ck, 370# FTP.

Unnamed(8-2-79)
Strahan Oil & Gas
#1 Moore
23-6S-9W, Lawrence Co., Ala.
T.D. 1251 (Paleozoics)
Trenton Lime OH 1155-1251
FARO 29MCFGPD, 6/64" ck, 120 FTP

Unnamed (8-2-79)
Strahan Oil & Gas
#1 Copeland
13-6S-9W, Lawrence Co., Ala.
T.D. 1316 (Paleozoics)
Trenton Lime OH 1100-1316
FARO 3.6MCFGPD, 6/64" ck, 15# FTP

West Oakvale (8-16-79)
Tomlinson Interests
#1 R.H. Myers
36-6N-20W, Lawrence Co., Miss.
T.D. 16,796 (Hosston)
Booth SD. Pfs. 16,314 - 331
FARO 6.3 MMCFGPD, 111 BWPD, 16/64" ck, 2727 #FTP.

Holly Bush Creek (10-10-79)
Shell Oil
#1 McKay, et al
30-7N-5E, Rankin Co., Miss.
T.D. 16,592 (Jurassic)
Norphlet Pfs: 16,173-315 (O/A)
FARO 20 MMCFGPD +, 60 BWP, Adj. ck,
1700-3900# FTP, 98.8% CO₂

Unnamed (10-11-79)
Hughes & Hughes - Warrior
#1 Sizemore 21-4
21-13S-14W, Lamar Co., Ala.
T.D. 2893 (Paleozoic)
Carter Pfs: 2177-98 (O/A)
FARO: 646 MCFGPD, 16/64" ck, 190# FTP.

Second Creek (10-18-79)
James B. Furrh, Jr.
#1 Armstrong
8-4N-2W, Adams Co., Miss.
T.D. 6929 (Wilcox)
Banbrook Sd Pfs 6516-18
FARO 16 BOPD, 8/64" ck, 120# FTP, 43° Gr.

Stave Creek (10-22-79)
Pruet - Spooner - Midroc - Watkins
#1 McCorquodale 25-1
25-7N-1E, Clarke Co., Ala.
T.D. 12,926 (Jurassic)
Smackover Pfs: 12,454-473
FARO 595 BOPD, 216 MCFGPD, 9/64" ck, 7050 # FTP
363/1 GOR, 41.2° Gr.

Unnamed (10-26-79)
Warrior Drlg. & Engr.
#1 Shepard 20-3
10-17S-12W, Fayette Co., Ala.
T.D. 4116 (Paleozoics)
Carter Sd. Pfs. 3739-44
C.O.F. 1250 MCFGPD.

NEW PUBLICATION
CORPUS CHRISTI GEOLOGICAL SOCIETY
ANNOUNCES
"TYPE FIELD LOGS IN SOUTH TEXAS 1979"
Volume II - Wilcox (Eocene) Trend

The Corpus Christi Geological Society is pleased to announce the completion of it's second volume of "Type Field Logs in South Texas." This book is a completely new publication which contains appropriate information for 71 fields in the Wilcox Trend. Information on these logs includes regional sand names, official RRC reservoir names, formation tops, faults and pertinent comments as to the type of trap.

PRICE

Non-Members \$25.00 + \$1.25 tax + \$2.00 postage
and handling = \$28.25

Members \$20.00 + \$1.00 tax + \$2.00 postage
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MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING
DECEMBER 17, 1979

Members Present: Phil Reeves, Marshall Kern,
Phil Gunter, Steve Oivanki.

Phil Reeves reported that several papers are being drafted now by Engineering Services for the Red Book. It was recommended that Engineering Services also do the printing.

Marshall Kern reported that the Larry Boland Scholarship committee has completed its preliminary work and is ready to make a recommendation to the general membership at the next meeting. Oivanki motioned, Reeves seconded that Kern present the committee's findings at the January meeting and that a vote be taken to go ahead with the establishment of the scholarship fund.

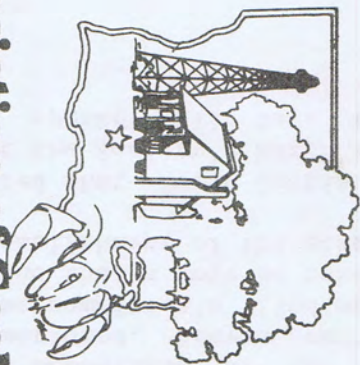
Phil Reeves reported that Doris Curtis will be unable to speak at the Society's March meeting and an alternate speaker will have to be found.

NEW MEMBERS

John F. Dlouhy - Cities Service, Jackson.

Bernard A. Holman - Independent, Jackson.

David W. Miller - Independent, Jackson.



Gulf Coast Association of Geological Societies

Convention — Lafayette, Louisiana
October 15-17, 1980

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Abstract Deadline: February 15, 1980
Manuscript Deadline: April 15, 1980

Program Committee Co-Chairmen
Walter Doble (318) 237-0647
Roy Naumann (318) 234-4551
P. O. Box 51682
Lafayette, Louisiana 70505

If you are seriously considering submitting a paper, please let us know now by providing us with the following information mailed to the above address.

Name: _____

Address: _____

Telephone: _____

Title of Paper: _____

IRRATIONAL PRICE FIXING

By Wallace E. Pratt
From the AAPG Explorer
November, 1979

In a recent special broadcast over the major networks President Carter announced the conclusion of our government's long continued negotiations with Pemex, Mexico's national oil corporation, for our purchase of natural gas from it. Pemex, the President said, had agreed to sell us 300 million cubic feet (Mcf) of natural gas daily at a price to be adjusted quarterly. For the initial period beginning January 1, 1980, the price would be \$3.625 per 1,000 cubic feet (Mcf). This price, the special broadcast continued, is \$1 per Mcf lower than previously discussed prices.

But the most widely discussed earlier price was set in the trade agreed to in 1977 when, according to press reports, a group of six American natural gas companies contracted to buy, and Pemex agreed to sell, 2 billion Mcf of natural gas daily at a price of \$2.62 per Mcf, only 2/3 as much as the new agreement specifies. This trade was scotched by our Secretary of the Department of Energy who stepped in and forbade its consummation. The price, he insisted, was too high.

These incidents reveal something of the confusion that characterized our efforts to make our diminished supply of energy meet our essential needs.

It is a matter of common knowledge that natural gas (essentially the hydrocarbon, methane) is the cleanest, most convenient and most efficient fuel available to the American consumer. Yet our Federal government, which since 1956 has controlled the price of natural gas at the well-head has maintained a ceiling price so absurdly low that natural gas is also the

cheapest fuel available. AT the same time government insists that industry utilizing natural gas as a fuel shift to coal, an air-polluting, less efficient fuel at a higher cost. Is this not counter-economics?

The energy in 1 Mcf of natural gas is 1/6 of that in 1 barrel of crude oil. Six Mcf of natural gas will do just as much work - or furnish just as much heat - as a barrel of crude oil. It would seem to be rational therefore, to buy or sell 1 Mcf of natural gas at 1/6 of the prevailing price of crude oil.

Nevertheless in the Permian basin of West Texas, years ago when the posted price of crude oil was \$3 a barrel the Federal Power Commission imposed a ceiling price of 17 cents per Mcf for natural gas at the well-head; this despite the fact that most of the natural gas production came from wells drilled to depths exceeding 20,000 feet. True, the ceiling price has been lifted from time to time through the years and now stands at \$1.75 per Mcf. But meantime the world price of crude oil, fixed by the OPEC Cartel, has also been raised and now averages \$20 to \$22 per barrel.

In the light of these observations the price demanded for its natural gas by Pemex is pretty close to its actual value based on the prevailing world price for crude oil.

The Jackson Geophysical Society will hold its monthly meeting on Monday, January 21, 1980 at Primos Northgate. The specifics of the technical program are unavailable at this time. The bar opens at 5:30 with dinner at 6:30.

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MORTON M. PHILLIPS, Petroleum Geologist 740 Milner Bldg., Jackson, Miss. 39201 Phone: 355-3364 Phone: 366-9660
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SPOONER PETROLEUM COMPANY 1850 Deposit Guaranty Plaza Jackson, Mississippi 39201
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MISSISSIPPI GEOLOGICAL SOCIETY
P. O. BOX 422
JACKSON, MISSISSIPPI 39205



Frederic F. Mellen
Mellen Geological Assoc., Inc.
702-6 Standard Life Bldg.
Jackson, MS 39201

-CALENDAR-

- January 8 - M.G.S. Noon Meeting
Smackover Room - Capital City
Petroleum Club
- January 21 - J.G.S. Meeting
Primos Northgate

NEWS

BULLETIN

mississippi geological society

VOLUME XXVII, No. 6, FEBRUARY, 1980



M.G.S. NOON MEETING February 5, 1980

The monthly Mississippi Geological Society meeting will be held on Tuesday, February 5, 1980, at noon in the Smackover Room of the Capital City Petroleum Club. The speakers will be A. W. Cleaves and M. C. Broussard. Their talk is entitled "Upper Mississippian Cratonic Delta System in the Black Warrior Basin of Mississippi and Alabama."

Arthur W. Cleaves received a B A degree in Geology from Brown University in 1967. He received his M A and PhD degrees from the University of Texas at Austin in 1971 and 1975 respectively. From 1976 - 79 he was an Assistant Professor of Geology at the University of Mississippi. Since last May he has been Research Assistant Professor of Geology with the Mississippi Mineral Resources Institute at the University of Mississippi.

Matthew C. Broussard received his B S in Geology from Nicholls State University in 1972, and M S from the University of Mississippi in 1978. He is currently with Amoco Production Company in New Orleans. He has previously been with Dow Chemical and Baroid Corp.

Please call reservations in to T. C. Rader at 969-3286 no later than noon, Monday, February 4, 1980.

MISSISSIPPI GEOLOGICAL SOCIETY

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DON TURNER	-	- UNION OIL

PRESIDENT'S NOTES

It was a pleasure to see such a great group at our last meeting. For your information, we had a high for the year, which was 105. We will continue to look forward to the same type papers in the future and hope that you will continue to enjoy them as you have those in the past.

It is my opinion that we are making a big step forward in beginning the scholarship fund sponsored by the Society. I think that this can be of great help to students who will soon be among us as professionals.

The Society officers are now planning the end of the Society year, and we hope to make some changes as far as the last two meetings go that will cause more interest. As these plans become more firm, we will be alerting you to them through the Bulletin.

You will see elsewhere in the Bulletin a notice of the AAPG continuing education courses planned for February and March. In the past, we have not had a great turnout for these but hope that this will be reversed this year. I think you can understand that if we continue to have a low turnout for these, we will have to consider cancelling them in the future. If you have any suggestions that you think would cause a better turnout, please feel free to offer your suggestions.

Thank you

Philip R. Reeves

UPPER MISSISSIPPIAN CRATONIC DELTA SYSTEMS
IN THE BLACK WARRIOR BASIN OF
MISSISSIPPI AND ALABAMA

Arthur W. Cleaves and Matthew C. Broussard

Terrigenous clastic and carbonate depositional systems comprising the lower two-thirds of the Chester Series were laid down on the shallow northern shelf of the Black Warrior foreland basin. The evaluated section involves the rock units between the Tuscumbia Limestone and the "Millerella" limestone tongue of the Bangor Formation. Three significant cycles of deltaic progradation have been identified in northeastern Mississippi and northern Alabama through data gathered from 550 oil well logs and 10 measured sections. Two deltaic depocenters, a carbonate shelf complex, and a shallow basin carbonaceous shale unit are the primary depositional systems noted in the area.

Three genetic intervals have been identified on the basis of thin marine transgressive carbonate units. The Lowest (Lewis) interval involves a high-constructive lobate delta system whose axes of maximum sandstone thickness extend southeastward from Lee and Itawamba Counties, Mississippi, as far as Tuscaloosa County, Alabama. Maximum net sandstone thicknesses for individual lobes average 60 ft. The middle interval includes a western Evans High-Destructive Wave-Dominated Delta Complex centered in Lee and Itawamba Counties, Mississippi, and a more easterly Hartselle High-Destructive Wave-Dominated Delta System in northwestern Alabama. The Hartselle Delta System attains net sandstone thicknesses greater than 160 ft. along a northwest-southwest trend that extends almost to Birmingham. Evans delta lobe maxima average about half that thickness. The upper interval

is dominated by the thick, multistoried Muldon High-Constructive Elongate Delta System (Rea through Carter sandstone units), centered in Monroe County, Mississippi, northeastward, and laterally equivalent to the Muldon Delta, is the Bangor carbonate shelf.

The Lewis, Evans, and Muldon units represent relatively thin, cratonic deltas whose sandstone provenance is to the north-northwest of the Black Warrior basin, perhaps a southeastern Missouri source area. Hartselle terrigenous clastic rocks were transported from the northeast and southeast and likely have an Appalachian source.

-J.G.S. MEETING-

The next monthly meeting of the Jackson Geophysical Society will be February 18, 1980, at Primos Northgate. The talk will be entitled "Definition of Faulting, Hydrocarbon and Facies Limits by Color Attributes". The speakers will be Dr. R. E. Sheriff and Don Rollinson with Seiscom Delta. They will have black and white and color seismic sections for comparison. Happy Hour begins at 5:30 p.m. with dinner at 6:30. Cost is \$9.00; Student cost is \$5.00.

LAWRENCE F. BOLAND MEMORIAL SCHOLARSHIP FUND

Be it resolved that the Mississippi Geological Society establish the Lawrence F. Boland Memorial Scholarship Fund and that earnings and interest from this fund be used to offer scholarships at the four colleges and universities in Mississippi which offer degrees in geology.

Be it further resolved that a committee of trustees be set up by the Mississippi Geological Society to select students for awards of the scholarships and that this committee be comprised of the First Vice President (President-elect) as Chairman, the Society President, and 3 other members to be named by the Society Executive Committee. This committee would use the following as criteria for selection but not be limited to these criteria only:

- (1) The student be a Junior or Senior Geology Major.
- (2) Academic average of 3.0 on a 4.0 system.
- (3) Geological curiosity.
- (4) Responsible, dependable and of good ethical character.
- (5) Have ability to communicate.
- (6) Have need for financial assistance.

Be it also resolved that the goal for this fund be \$100,000.00 so that the interest derived could establish 4 scholarships of \$2,500.00 per year but until this goal is reached scholarships may be awarded for lesser amounts.

Be it finally resolved that this fund be set up and named the Lawrence F. Boland Memorial Scholarship Fund Trust, Inc., and that all proper procedures be followed to establish this trust be observed in a suitable manner such as a bank be obtained to disburse funds only on the authority of the Trustees.

Offered this 8th day of January, 1980, by the Mississippi Geological Society.

Motion made by Bill Moore, seconded by Harold Karges.

Motion carried by unanimous voice vote.

Stephen Oivanki

AAPG CONTINUING EDUCATION

Dr. Robert Berg, of Texas A & M, will present a discussion on "Sandstone Depositional Environments", during the evening of February 11, at Primos Northgate. Dr. Berg is a fine speaker and highly qualified on the subject, having published on topics ranging from turbidites in the Deep Woodbine (Tuscaloosa) play of Texas to fluvial deposition in the Muddy Sand of Wyoming. His experience in petroleum industry related sandstone research is as broad as any speaker we might obtain. Dr. Berg presents a very practical and useful approach to the recognition of sand body types and their trend projection. His articles typically include not only core and sample studies, but their associated electric log characteristics and production behavior. This talk should be most useful to the petroleum geologist and we encourage you to attend this AAPG-sponsored Continuing Education Program.

The talk will follow a dinner to begin at 6:30 p.m. at Primos Northgate. Cost will be \$15.00 per person and will cover both your meal and the program. If you plan to attend, please make reservations with T. C. Rader at Clarko, 969-3286, before noon on February 10.

Offered this 8th day of January, 1980, by the Mississippi Geological Society.

Motion made by Bill Moore, seconded by Harold Karges.

Motion carried by unanimous voice vote.

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-REMINDERS-

Ladies Night is tentatively scheduled for
Friday, April 11th.

The Spring Barbeque is being set for Tuesday,
May 20th.

Another AAPG Continuing Education course is set
for March 27th. It is entitled "Diagenetic
Constraint" and Clyde Moore will be the
speaker.

Don't forget the Continuing Education course on
February 11th with Dr. Robert Berg discussing
Sandstone Depositional Environments.

CONGRESS OF THE UNITED STATES
HOUSE OF REPRESENTATIVES
Washington, D.C. 20515

November 6, 1979

Mr. John Backe, President
CBS, Inc.
51 West 52nd Street
New York, New York 10019

Dear Mr. Backe:

As indicated in my letter of July 17, 1979, (copy enclosed) to Mr. Neil Derrough, Vice President and General Manager, I was greatly disturbed by the fact that the Kaiser Aluminum Company was denied the right by all three major television networks to purchase television viewing time for certain commercials depicting the benefits of and potential threats to the free enterprise system. While NBC and ABC promptly answered similar letters, my files do not show that an answer from your company was received.

I now ask that you not only answer my original request, but that you also respond to the charges contained in the two pages of advertisements in The Washington Post, on Tuesday, November 6, 1979, on pages A 18 and 19, as posed by the Mobil Oil Company.

Refusal to publish opinions of others who may disagree with you is one thing, although not too admirable in my opinion, in view of the dominion over the air waves that CBS, ABC, and NBC jointly enjoy; but, distortion of the news is something altogether different. I shall not prejudge your actions until I see your response in detail to every one of Mobil's allegations. I do suggest to you, however, that in none of

the press releases that I saw or heard on any national radio or television network production did I hear an attempt to point out to the American people the actual profits of any oil company in terms of percent of return on dollars invested. Nor, did I hear any attempt by the media to break down total profit figures in terms of return on American investments versus return on foreign investments.

Instead, what I hear constantly was the distorted and misleading statement that an oil company's profits in the third quarter of 1979 amounted to X% (generally from 100% to 200%) of those received in the third quarter of 1978. This says really nothing since if, in 1978, profits were exceptionally low, it would not be unusual for any company to double or even triple profits of the preceding year. Thus, the figures 100%, 200%, and 300% are highly inflammatory, but not particularly unusual or even newsworthy.

Just to put your sensational views of oil company profits into perspective, I took the liberty of checking the journals of a nationally known investment research service for a comparison of past earnings of CBS to those of the top 3 oil companies. I found the following:

	TEXACO	MOBIL	EXXON	CBS
	(Earnings per Share)			
1978	\$3.14	\$5.31	\$6.20	\$7.15
1977	3.43	4.75	5.41	6.50
1976	3.20	4.54	5.90	5.75
1975	3.06	3.98	5.59	4.30
1974	5.84	5.11	7.02	3.80

	TEXACO	MOBIL	EXXON	CBS
	(Return on Equity)			
1978	9.0%	12.7%	13.4%	24.3%
1977	9.9%	12.2%	12.3%	25.3%
1976	9.7%	12.6%	14.4%	25.5%
1975	9.6%	11.8%	14.8%	22.3%
1974	18.4%	16.7%	20.5%	22.7%

If you will recall, 1974 was a year of recession, and it also happened to be the first year that Americans began hearing of the "great oil rip-off" being perpetrated by the oil companies.

Since then, through 1978, we have been considered by economists as being in a generally expanding economy. You should note from the last column on the far right that CBS has profited quite handsomely during that period, while the oil companies haven't done nearly so well.

Now, of course, your own earnings report for 1979 are not yet in, but it is obvious that because of the energy shortage, the oil companies have done quite well. In view of the comparative figures for the last five years, however, they are still going to have to do exceptionally well to catch up with CBS.

Going further, I have determined that the CBS return on equity for the past five years has exceeded that of the great computer giant, IBM, which the Justice Department is currently trying to break up into smaller companies. It is also greater than that of the drug manufacturing giant, Eli Lilly.

The facts are available for public inspection, but unless CBS reports the full picture on their newscasts, it stands convicted of the very offense charged by Mobil Oil in their newspaper ad-distortion of the news.

I hope you will rectify this situation. I ask that you answer my original letter inquiring about the Kaiser incident, and that you respond in detail to the Mobil Oil charges. Furthermore, I would appreciate receiving answers to the following questions:

1. What were the actual profits of CBS in the 3rd quarter of 1979?
2. What were the actual profits of CBS in the 3rd quarter of 1978?
3. What was the percent of return on equity in before tax dollars for CBS in the 3rd quarter of 1979 and in the entire year 1979 (January to date)?
4. Will you be willing to announce your own profit figures in terms of actual percentage of return on equity in comparison to those of the top 20 oil companies and broadcast that comparison on your network newscast?

Your reply is eagerly awaited.

With best wishes,

Sincerely,

Robert L. Livingston
Member of Congress

RLL:j

Enclosures

bcc: Mr. Dan E. Hudson

MISSISSIPPI GEOLOGICAL SOCIETY

BOARD OF DIRECTORS MEETING

January 15, 1980

MINUTES

Meeting Place: Library - Capital City Petroleum Club

Members Present: Phil Reeves, Marshall Kern, Phil Cook, Steve Oivanki, Phil Gunter, Les Aultman, T. C. Rader.

Meeting called to order at 1:30.

T. C. Rader reported that there were 85 members and guests at the December meeting and 105 at the January meeting. The Spring Barbeque is tentatively scheduled for Tuesday, May 20th, at Fowler's Lodge. A discussion followed concerning the date and format for Ladies Night this year. It was decided to have the dance on a Friday night in order to increase attendance. T. C. suggested that the dance be held on a boat trip on the reservoir with possibly a shrimp boil instead of a formal dinner. The idea was approved and T. C. will begin making arrangements. The tentative date is set for Friday, April 11th.

Phil Gunter will figure from past records how much carryover cash is needed each year in the treasury so that a decision can be made as to how much the Society will contribute to initiate the Larry Boland scholarship fund.

Les Aultman noted that several members at the noon meetings are charging their lunches on their club tickets and attending the meeting. Since the Society is charged by the number seated in the Smackover Room, it was decided that all attending the meeting must pay at the door so that the Society is not charged for excess meals.

The next continuing education seminar is scheduled for February 11th with Dr. Robert Berg. Attendance at previous continuing education seminars has been poor, and it was suggested by Aultman that the seminars in the future be conducted in the afternoon rather than at night in order to improve attendance.

Stephen Oivanki

NEW MEMBERS

Ben A. Baker - Diamond Shamrock, Houston
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-CALENDAR-

- February 5 - M.G.S. NOON MEETING
Capital City Petroleum Club
- February 11 - AAPG CONTINUING EDUCATION
Dr. Robert Berg - Sandstone
Depositional Environments
Primos Northgate
- February 18 - J.G.S. MEETING
Primos Northgate

NEWS

BULLETIN

mississippi geological society

VOLUME XXVII No. 6, MARCH, 1980

NOON MEETING
March 4, 1980

Guest Speaker: Virgil S. Whitesdies, Jr.



Enserch Exploration, Inc.
Dallas, Texas



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M.G.S. NOON MEETING
March 4, 1980

The monthly meeting of the Mississippi Geological Society will be held on Tuesday, March 4, 1980, in the Smackover Room of the Capital City Petroleum Club. The speaker will be Virgil Whitesides with Enserch Exploration in Dallas, Texas. His talk is entitled "Clasticity Index: A Key to Correlating Depositional and Diagenetic Environments of Smackover Reservoirs, Oaks Field, Claiborne Parish, Louisiana.

Born in Tupelo, Virgil Whitesides received his B. A. in Business Administration from Vanderbilt University in 1951. After serving in the Air Force, he received his M.S. in Geology from the University of Oklahoma in 1957. He was employed by Humble Oil & Refining Company and was involved in surface and subsurface geologic mapping in East Texas and Alaska for ten years. For the past eleven years he has been associated with Enserch Exploration, Inc. and currently is an Area Staff Geologist actively working the Smackover trend from the Dallas Office.

Please call reservations in to T.C. Rader at 969-3286 no later than noon Monday, March 3, 1980. The tab for the meeting is \$6.00.

COURSE ON
-FUNDAMENTALS OF CORE ANALYSIS-

April 1 & 2, 1980. Sponsored by Core Lab, Inc. for Oil & Gas Industry Personnel. For further information contact Tom Swisher at 932-4863.

CLASTICITY INDEX: A KEY TO CORRELATING
DEPOSITIONAL AND DIAGENETIC ENVIRONMENTS
OF SMACKOVER RESERVOIRS, OAKS FIELD,
CLAIBORNE PARISH, LOUISIANA

Virgil S. Whitesides, Jr.

Oaks Field is a stratigraphically trapped Smackover field which produces from at least three separate reservoirs. Individual reservoirs are shoaling-upward carbonate grainstone cycles. The three reservoirs are offlapping and are separated from each other by a nonporous terrigenous rich clastic facies. The oldest two reservoirs were deposited as well-defined barrier island complexes up to four and one-half miles long and less than one-half mile wide. The youngest reservoir is less well-defined and was deposited primarily as coalescing bars which were only occasionally emergent. All carbonate facies were deposited as mud-free oolitic and rhodolitic grainstones. The majority of porosity occlusion was by early cementation in the meteoric phreatic, and vadose zones, paralleling depositional strike.

Ten of the thirteen producing wells and all five dry holes were conventionally cored. Thin sections were made at one-foot intervals from perm plugs, corresponding with measured values of porosity and permeability. Detailed petrographic correlation of wells allowed the individual reservoirs to be subdivided into distinct mappable units based on a plot of the diameter of the largest coated carbonate grain ("Clasticity index") in each thin section. Clasticity index provides a simple tool for rapid and precise well correlation within individual reservoirs. Such detailed correlations are not possible by conventional log methods in this field.

Prior to incorporating petrographic analysis into the development drilling program, the field consisted of seven producing wells and three dry

holes. By combining elasticity plots and other petrographic information with porosity isopach values, the field size was almost doubled with the successful completion of the next six holes drilled.

S P R I N G F L I N G

April 11, 1980
7:00 p.m. - 11:00 p.m.

Entertainment provided by a 5-piece jazz band. Boat ride on the reservoir.

SHRIMP - BEER

Make your reservations early. Only room for 62 couples. Call T. C. Rader's office to reserve - 969-3286. There will be a small charge to be finally determined by the next bulletin.

MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING
February 15, 1980

MINUTES

Members Present: Phil Reeves, Phil Cook, Steve Oivanki, Les Aultman, T. C. Rader, Larry Baria.

T. C. Rader reported that the dance at the reservoir is set for April 11th, but the date may be changed if a band cannot be found to play that night. Attendance will be limited by the capacity of the boat to 125 persons. As soon as the final plans and costs are known, a flyer will be mailed to members announcing the cost and location to purchase tickets.

Geo Tech has asked to sponsor the Spring Bar B-Que in May. They asked to be allowed to donate a door prize, and after some discussion the idea was approved. It was also decided that the door prize drawing be limited to members only, and that the meal charge for non-members will be \$10.

Larry Baria reported that the last continuing education seminar was a success. The next seminar will be on March 26th with Dr. Clyde H. Moore, Jr. speaking on carbonate diagenesis. It was decided to have a 4-hour lecture starting after lunch at 1:00 in the Petroleum Club.

Phil Cook noted that the publication sales prices need to be updated to reflect increased mailing costs; this will be done at the next meeting.

Stephen Oivanki
Secretary

Mr. Lester Aultman
Mississippi Geological Society, Inc.
P. O. Box 422
Jackson, Mississippi 39205

Dear Lester:

The American Association of Petroleum Geologists and the Society of Exploration Geophysicists are sponsoring a research symposium session on exploration for subtle traps, which will be part of the 1981 AAPG Convention in San Francisco. The title of the symposium is "Geological and Geophysical Rationale Related to the Deliberate Search for the Subtle Trap (Stratigraphic, Unconformity and Paleogeomorphic)".

It is time for the explorationist to ensure that an essential and substantial part of his exploration policy includes the purposeful search for subtle hydrocarbon traps. Geophysicists and geologists should make use of all earth science studies which will shed light on ancient environments that favor the formation of these types of traps and openly discuss how these traps may be searched for and delineated. It is our intent to devote approximately 50% of the session to geophysical approaches and the other 50% to the geological approaches to the exploration for subtle traps.

As coordinator for this session, I am calling for papers; and anyone interested in presenting a paper should so inform me as soon as possible. All of the accepted papers will be considered for publication either in the BULLETIN or as a Special Memoir publication. In all probability, it will be the latter.

Michel T. Halbouty

Society of Economic Paleontologists
and Mineralogists

The Gulf Coast Section of SEPM is sponsoring a field trip on May 10-11, 1980, to the Queen City Formation in the East Texas Embayment: A Depositional Record of Riverine, Tidal and Wave Interaction. Trip leader will be David K. Hobday from the Bureau of Economic Geology, the University of Texas at Austin. The trip will begin and end in Longview, Texas.

For more information please contact Chip Carney, Amoco Production Co., P. O. Box 50879, New Orleans, Louisiana 70150.

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AAPG NEWS

January 21, 1980

TULSA -- The odds of finding a really large oil or gas field in the U.S. through wildcat drilling are 1,820 to one according to a study just completed by the American Association of Petroleum Geologists.

John J. Amoruso, a Houston consultant and independent, chaired the special AAPG committee that compiled the study. The study covered the last decade, 1969-78, when the oil industry drilled 54,610 new field wildcats.

AAPG defined new field discoveries in four categories and assigned letters A through D to them with "A" designated as a new field discovery with ultimate recovery of 50 million barrels of oil or more than 300 billion cubic feet of gas. (North Slope of Alaska discoveries were not included in the study.)

"Of the total wells drilled only 30 received the 'A' designation," said Amoruso, "and only 933 were recorded as significant -- that is with estimated recovery of more than one million barrels of oil or more than 6 billion cubic feet of gas."

AAPG defined "B" discoveries as capable of recovering from 25 to 50 million barrels of oil or from 150 to 300 billion cubic feet of gas. "C" was graded from 10 to 25 million barrels of oil or 60 to 150 billion cubic feet of gas, and "D" from one to 10 million barrels of oil or six to 60 billion cubic feet of gas.

Of the total new field wildcat wells drilled during the decade the 16 largest oil companies drilled 5,752 or 10.5 percent while all other operations drilled 48,585 or 89.5 percent.

Ranked according to lease revenue, the 16 largest companies used in the study were: Exxon, California Standard, Mobil, Gulf, Texaco, Indiana Standard, Atlantic Richfield, Shell,

Continental, Phillips, Getty, Ohio Standard, Union of California, Sun, Marathon and Cities Service.

Amoruso said that current estimates of the reserves found in significant fields (A-D) by the decade of drilling are 2.8 billion barrels of oil and 41.3 trillion cubic feet of gas. Domestic production (excluding Alaska) during 1969-78 was 31.4 billion barrels of oil and 210 trillion cubic feet of gas.

The study showed that the 16 largest companies discovered 1.5 billion barrels of oil -- 53.7 percent of the total -- and 16.6 trillion cubic feet of natural gas -- 40.3 percent of the total.

All other operators discovered 1.3 billion barrels of oil -- 46.3 percent of the total -- and 24.7 trillion cubic feet of gas -- 59.7 percent of the total.

According to the Bureau of Census data for the five-year period, 1973-1977, the 16 largest companies accounted for about 60 percent of industry expenditures for geological and geophysical information and lease acquisition, and paid for about 35 percent of the costs of all exploratory drilling.

All other operations accounted for 65 percent of the cost of all exploratory drilling in the U.S. over the five-year period. AAPG's study drew the inference that the large oil companies explore for oil and gas and buy leases at levels proportionate to their share of total U.S. production, but when it comes to exploratory drilling these companies account for only about one-third of all money spent.

The largest companies spent more than twice as much on pre-drilling exploration, such as seismographic and other exploration techniques. Other operators spent twice as much for actual drilling. The larger companies concentrate exploration and drill wildcats on high costs,

high risk, deeper and potentially more rewarding prospects than the average of those drilled by all other operators.

Total cost of all exploration and wildcat drilling for the decade amounted to \$34.4 billion.

"Only 933 wells were listed by AAPG in the significant A to D categories, representing less than two percent of the total wildcats drilled," said Amoruso.

CONTINUING EDUCATION PROGRAM

Dr. Clyde Moore of L.S.U. will present a four-hour program on carbonate diagenesis March 26th from 1:00 til 5:00 p.m. in the Smackover Room of the Capital City Petroleum Club. Cost for the program will be \$5.00 for members and \$1.00 for students. The talk will emphasize secondary porosity development and cementation in Cretaceous and Jurassic reservoirs. Dr. Moore, and several of his students, have just completed a two-year study of Smackover diagenesis in South Arkansas and North Louisiana and are in the process of a similar evaluation of the Alabama and Mississippi Jurassic trend. Many of their most recent observations will be presented in the program.

Dr. Moore is certainly no stranger to the Mississippi Geological Society; a reflection on his speaking ability and timely subject matter. The March meeting should prove no exception.

Please make reservations with T.C. Rader, 969-3286, if you plan to attend.

Lawrence R. Baria

J.G.S. MEETING

The next monthly meeting of the Jackson Geophysical Society will be held on Monday, March 17, 1980, at Primos Northgate.

The speaker will be Dr. William L. Fisher from the University of Texas at Austin. His talk is entitled "Energy and Government in Conflict".

Happy hour will begin at 5:30 P.M. with dinner at 6:30 P.M.

ABSTRACT

Energy and Government in Conflict

The gravity of this Nation's energy problems requires the full marshalling of public and private sector capabilities and with a return to the traditional balance in their respective roles. Unfortunately, the onset of our major energy problems earlier this decade coincided with substantial shifts in traditional public and private sector roles, with a major enlargement of central Government roles in both volume and scope of regulation, and in extent of intervention. It is imperative that the traditional balance be restored, but recent trends still persist in the other direction.

GULF COAST URANIUM AND LIGNITE FIELD TRIP, APRIL 25 - 26, 1980

The Corpus Christi Geological Society is staging a field trip to look at uranium and lignite mining areas in south Texas.

The trip leader is Dr. Bill Galloway with the Bureau of Economic Geology, out of Austin.

The group will be traveling in two air conditioned buses, starting out from Corpus Christi on Friday morning.

The first day's stops include Chevron's Panra Maria mines and mill complex, Everest's in situ leach uranium plant and well field, and the San Miguel lignite mine and power plant.

Friday night will be spent in San Antonio, headquartered at the Broadway Plaza motel.

Saturday the trip route is through Live Oak county where two outcrop stops are planned plus a stop at Exxon's Felder uranium mine, and finally U.S. Steel's leach uranium facility and well field. Then, back to Corpus Christi.

Registration fee is \$75.00 for industry people and \$40.00 for students. This includes bus transportation, motel room (semi-private), two noon meals, and guidebook.

Please tear out the registration coupon and send it in with your check.

Jim Knupke
Chairman
Phone 512/882-9661

REGISTRATION FOR FIELD TRIP

Make checks payable to the Corpus Christi Geological Society. (\$75.00 for industry people, \$40.00 for students)

Name: _____
Affiliation: _____
Address: _____
Phone: _____

Return to Jim Knupke, 914 The 600 Building, Corpus Christi, Tx. 78473

HOUSTON GEOLOGICAL SOCIETY MEMBERSHIP PHOTO-DIRECTORY

The Houston Geological Society will be publishing a photo-directory of its 1979-80 membership in the Spring of 1980. Order now to assure that you'll receive a copy. Prepublication price to members is \$5.00; price to members after April 1, 1980 will be \$10.00. Price to nonmembers is \$15.00. These prices are F.O.B., Cardinal Printing. Add \$1.50 per directory ordered for mailing. Send an Order Form with your remittance to:

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ORIGIN OF THE GULF OF MEXICO
AND THE EARLY OPENING OF
THE CENTRAL NORTH ATLANTIC OCEAN

A Symposium

The Department of Geology, Louisiana State University, and the Louisiana Geological Survey announce a symposium on the origin of the Gulf of Mexico and the early opening of the central North Atlantic, March 3-5, 1980, Baton Rouge. Approximately 20-25 oral presentations are anticipated, dealing with the geology and geophysics of the Gulf and continental margins of the Gulf and Atlantic Ocean. In addition panel discussions and informal question/answer sessions are planned.

A consensus on the origin of the Gulf may still be some years away, but considerable progress has been made in acquisition of significant new geologic and geophysical data and in the development of new, more sophisticated geophysical and tectonic models over the past few years. For these reasons, this meeting has been organized to review and compare existing and new concepts in light of newly acquired or reinterpreted older data. Participants in the meeting include some of the most active workers in the Gulf and Atlantic regions.

The symposium will be held in the Colonnade of the LSU Union at Louisiana State University in Baton Rouge.

Lodging Arrangements: A block of rooms has been reserved at the Prince Murat Inn, 1480 Nicholson Drive, Ph. (504) 387-1111, at rates of, Single: \$19., Double: \$24., Triple or Quad: \$29. A shuttle bus will operate between the Inn and campus. The Inn will also provide transport to and from Baton Rouge Airport (Call from the special telephone in the airport baggage area).

Make reservation arrangements directly with the desired hotel. Do not contact LSU for reservations.

UPDATE OF ALABAMA PETROLEUM INDUSTRY IN NEW PUBLICATION

The State Oil and Gas Board has recently released an annual report entitled "The Petroleum Industry in Alabama, 1978" by John H. Masingill and Patricia F. Hall.

Eight illustrations depicting oil and gas fields, pipeline systems and oil, gas and condensate production are included in the report. There are also eight tables in the petroleum industry report. Four present selected information on oil and gas fields in south and north Alabama. Other tables summarize production statistics by region, county, and field. Production from extraction and cleansing plants is also summarized.

This report, Oil and Gas Report 3, will be updated and released annually to keep Alabama citizens and other interested parties apprised of oil and gas activity developments in the state.

"The Petroleum Industry in Alabama," Oil and Gas Report 3, is available for \$2.00 from Publications Sales, Geological Survey/State Oil and Gas Board, P. O. Drawer O, University, Alabama 35486.

-DECEMBER PROGRESS REPORT-

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<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	0	1	3
Paleozoic	0	2	2
Exploratory Footage: 81,444'			
<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Jurassic	1	1	0
Paleozoic	0	4	4

MISSISSIPPI

<u>Exploratory</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	0	0	11
Up. Cret.	0	0	2
Lwr. Cret.	0	0	3
Jurassic	0	0	1
Paleozoic	0	0	3
Exploratory Footage: 154,526'			
<u>Development</u>	<u>Oil</u>	<u>Gas</u>	<u>Dry</u>
Eocene	5	0	9
Up. Cret.	3	0	0
Lwr. Cret.	0	7	2
Jurassic	0	0	1
Paleozoic	0	2	1

DISCOVERIES

McGee Lake Completed 12-5-79
Southland Royalty Co.
#1, Willard McGee 32-4
Section 32-16S-15W Lamar Co., Alabama
T.D. 4780 (Paleozoics)
Carter Sd. Pfs. 4176-4249(OA)
FARO 1450 MCFGPD on 14/64" ck. FTP 1300#

Unnamed (Shut In) 12-28-79
Mobil Oil Corp.
#1, State Lease 347
Block 76 Mobile Bay Mobile Co., Alabama
T.D. 21,113 (Jurassic)
Norphlet Pfs. 20,634-883(OA)
FARO 10,400 MCFGPD on 24/64" ck. FTP 4020#

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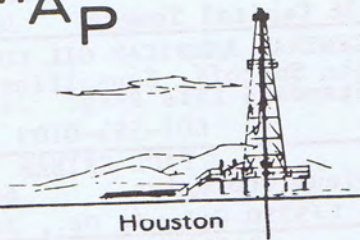
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-CALENDAR-

- March 4 - M.G.S. Noon Meeting
Smackover Room
Capital City Petroleum Club
- March 17 - J.G.S. Meeting
Primos Northgate
- March 26 - A.A.P.G. Continuing Education
Dr. Clyde Moore
Petroleum Club
1:00 - 5:00 P.M.
- April 1 & 2 - FUNDAMENTALS OF CORE
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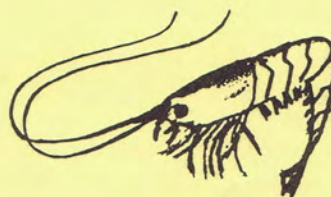
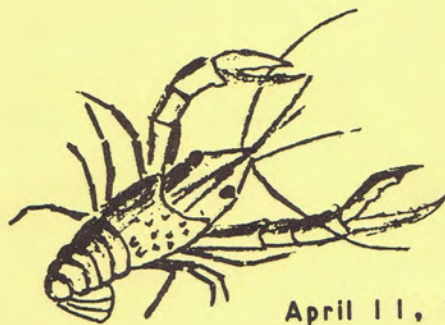
BULLETIN

mississippi geological society



VOLUME XXVII, No. 8, April, 1980

Don't Miss the Spring Fling



April 11, 1980



Details Inside

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-1979 Drilling Activity-

Drilling activity in Mississippi, Alabama and Florida during 1979 showed increase over 1978. Wells drilled for oil and gas in the three state area total 761, an increase of 75 over 1978. Exploratory wells totaled 352 an increase of 33 over the previous year.

Alabama showed one Eocene gas discovery, three oil and two gas discoveries in the Jurassic and 23 Paleozoic gas discoveries. Success ration was 31%, and was 48% in the Black Warrior Basin area. Total exploratory footage was up 280,000' to 798,258'. Exploratory activity was up 33 to a total of 94 wells.

Florida showed a decrease in exploratory wells from 14 to 12 with a corresponding 21,000' decrease in footage to 140,662'. There was one Lower Cretaceous oil discovery during 1979.

Mississippi exploration was up two wells to 246 but exploratory footage was down 10,000' to 2,109,967. Discoveries totaled 15 oil in the Eocene, 2 oil in the Upper Cretaceous, 3 oil and 5 gas in the Lower Cretaceous, 1 oil and 1 gas in the Jurassic and 6 gas in the Paleozoics. Success ratio was 13.4%, up slightly over 1978.

The monthly meeting of the Jackson Geophysical Society will be held on Tuesday, April 22, 1980, at Primos Northgate. This month's guest speaker will be Dr. G. H. F. Gardner, a Society of Exploration Geophysics Distinguished Lecturer. His talk is entitled New Dimensions in Seismic Exploration.

Happy hour is at 5:30 P.M. with dinner at 6:30 P.M. The tab for the meeting is \$9.00.

Mississippi Geological Society

P. O. Box 422

Jackson, Mississippi 39205

The Mississippi Geological Society is pleased to announce publication of the long-awaited "Red Book" Supplement No. 8. This is the latest addition to Vol. II of "Mesozoic-Paleozoic Fields of Mississippi and Alabama". The supplement contains descriptions and maps of 33 fields, and is designed to fit in the loose-leaf binder of Vol. II.

The fields described are:

Barnett	Little Escambia Cr.	Sugar Ridge
Barrytown	Mill Creek	Turkey Creek
Bassfield	Monticello	Tylertown
Buttahatchie River	Mt. Carmel	Waveland
Chappel Hill	N. Choctaw Ridge	West Barnett
Chunchula	Oakvale	West Clara
Corinne	Seminary	West Mt. Olive
Crawford Creek	Silas Creek	White Sand
Fourmile Creek	S. Harmony	Wimberly
Jay	S. Williamsburg	Womack Hill
Jaynesville	Splunge	Zion Chapel

The "Red Book" has long been a valuable reference for geologists working in Mississippi and Alabama, and this latest supplement will be an equally valuable addition.

Publication is expected by June 1, 1980, and the cost of the supplement will be \$35. Pre-publication orders are now being accepted. To be sure that you receive your copy as soon as possible, please send in the order form below.

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SALT DOMES, GULF REGION,
UNITED STATES AND MEXICO

2nd Edition. By Michel T. Halbouty
Gulf Publishing Co., Houston, Texas
561 Pages, 3 Maps in Pocket. \$50.00

Gulf Coast salt domes have so often served as hosts for oil and gas accumulations that search for them was as close to a direct-finding tool as the industry possessed in the pre seismic-bright-spot era.. (Their negative role as "spoilers" which breached existing accumulations, making impossible the occurrence of super-giant Gulf Coast fields in the Persian Gulf mode, is seldom mentioned.)

When the first edition of Halbouty's book appeared, it was hailed as the only monographic treatment of this important subject. Twelve years later comes the second edition: it remains alone in its field.

The greatest contribution of the book is still its comprehensive bibliography, which now comprises 191 pages. Part of the reason for its great volume is the unorthodox system of entries. For papers with multiple authors, there is a complete citation under each author's name (so the senior author cannot be readily identified), and for papers with multiple key words in the title, there is a complete entry under each of these.

A little over 1/3 of the 142 pages by which this edition exceeds the earlier one is devoted to three new chapters. The longest is Chapter 10, "Salt Domes of Mexico," which includes a discussion of the stratigraphy and tectonics of the Isthmian Salt Basin, a map showing depth to top of salt or anhydrite on Isthmian salt structures, and maps indicating the structural style of recently discovered Mesozoic fields in the onshore Chiapas - Tabasco area and offshore

Bay of Campeche. The latter two maps are valuable additions to the slim store of printed information in English on these hydrocarbon-rich areas (but they are not salt-dome fields!)

The new chapter on "Seismic Profiling of Diapiric Structures and Basin Stratigraphy is a brief, lucid introduction to this important method of defining the subsurface configuration of salt domes.

The last of the new chapters is a very abbreviated discussion of the use of land-satellite images in salt-dome exploration. A Land-sat image of a portion of southeastern Louisiana, centering on Baton Rouge, is reproduced. The same image is repeated with an overprint showing the location of oil- and gas-producing areas and circular features which may represent domes and are thus of interest for exploration.

For the rest, the book repeats from the previous edition, with a few paragraphs of updating, the material on evaporite deposition in the Gulf Region, origin and growth of salt structures, classification of salt structures, accumulation of gas and oil (on salt uplifts) economic significance of salt structures, and salt domes drilling and producing problems. The figures throughout are highly informative, and, strikingly, mainly in color. There are invaluable tabulations listing domes alphabetically by states and counties (or parishes), and keying them to the literature.

Figure 1-3, which implies, incorrectly, that northwestern Alabama, nearly all of Mississippi about half of Arkansas, Southern Oklahoma and almost half of Texas are part of the evaporite basin of deposition is reprinted unchanged from the 1st edition. Figures 11-1 and 11-2 are misplaced in Chapter 10. The location of sections reproduced as figures 11-6, 11-7, 11-8, 11-9 and 11-10 are not shown on figure 11-11,

to which the reader is referred. For these, and other, comparable, oversights, I blame the editor of the volume.

Still unaccountable missing is an extensive treatment of the use of torsion balance, and, later, gravity surveys for delineating salt domes. (Papers on the subject are included in the bibliography.)

The book remains an invaluable reference to data and literature concerning Gulf Coast salt domes. Unfortunately, the price of this edition may make it a one-to-a-company reference work instead of a one-to-an-office working tool.

Jules Braunstein

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MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING
March 17, 1980

MINUTES

Members Present: Phil Reeves, Marshall Kern,
Phil Cook, Steve Olivanki

Marshall Kern reported that progress is being made by the Larry Bolland Scholarship committee to get the fund started. A new resolution will be submitted to the membership for approval in order to satisfy certain legal aspects of the fund incorporation.

Phil Reeves reported that the Ladies Auxiliary has an event scheduled the same day as the boat dance, April 11th; they asked that the boat departure be delayed 1/2 hour.

Phil Reeves reported that 33 fields are expected to be ready for the new Red Book supplement, due for publication about June 1st. A discussion followed concerning the publication and distribution costs, and it was decided to charge \$35.00 for the new supplement and to increase the cost of the previous red book and supplements 1-7 to \$25.00 reflecting more accurately the current printing and mailing expenses. Thus the cost for the red book and all supplements 1-8 would now be \$60.00.

Phil Cook has revised the publications list to bring the costs of the publications in line with increased printing and mailing costs. A new list will be published in the next bulletin to be effective June 1st.

A flyer detailing the new Red Book supplement will be printed up and sent to other societies for publication in their monthly bulletins.

Stephen Olivanki,
Secretary

9. Fifteenth Field Trip - Cenozoic of Southeastern Mississippi and Southwestern Alabama, May 1960, 52 pp., illustrated with road log..... \$ 4.00
10. Sixteenth Field Trip - The Paleozoics of Northwest Arkansas, Magnet Cove, Arkansas Valley, Ouachita Mountains, Ozark Highlands, May, 1962, 48 pp., illustrated with road log and correlation chart..... \$ 7.00
11. Seventeenth Field Trip - Mississippi Rocks of the Black Warrior Basin, April, 1978 (includes significant gas field studies)..... \$10.00

OTHERS

12. Mesozoic Composite Log of South Mississippi and South Alabama, October, 1957..... \$ 2.00
13. Paleozoic Composite Log of Black Warrior Basin, Mississippi and Alabama... \$ 2.00
14. Paleozoic X-Sections—Black Warrior Basin, 5 Sections..... \$10.00
15. Nine Jurassic Stratigraphic X-Sections (Miss., Ala., & N. W. Fla.)...(Set) \$ 50.00
16. Photodirectory 1977-78..... \$ 5.00

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W. L. HARPER, Geophysical Consultant 115 Sterling Towers, Jackson, Miss. 39202 Phone: 601-352-3339
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ROBERT R. JACOBS Petroleum Geologist 601-362-4846 P. O. Box 16263 Jackson, Miss. 39206
H. E. KARGES, Consulting Geologist 1240 Capital Towers P. O. Box 1635 Phone: 352-0972 Jackson, Miss. 39205
K. B. KEARY, JR. Petroleum Geologist 601-362-4895 439 W. Northside Dr., Jackson, Ms. 39206
F.E. (ED) KENDRICK - Log Evaluations 1338 Capital Towers 601-948-3801 Jackson, Miss. 39201
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R. E. DICK LEE & ASSOCIATES The Redd Bldg./4443 I-55 North/P.O.Box 5168 Jackson, Miss. 39216 601-982-0272

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DALE MYERS, Geologist P.O. Box 10553 601-355-3536 Jackson, Miss. 39209
MORTON M. PHILLIPS, Petroleum Geologist 740 Milner Bldg., Jackson, Miss. 39201 Phone: 355-3364 Phone: 366-9660
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SPOONER PETROLEUM COMPANY 1850 Deposit Guaranty Plaza Jackson, Mississippi 39201
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Mellen Geological Assoc.
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Jackson, MS 39201

-CALENDAR-

- | | | |
|----------|---|---|
| APRIL 11 | - | SPRING FLING
At the Reservoir
7:00 - 11:00 P.M. |
| APRIL 22 | - | J.G.S. DISTINGUISHED LECTURER
Dr. G. H. F. Gardner
Primos Northgate 5:30 P.M. |

NEWS

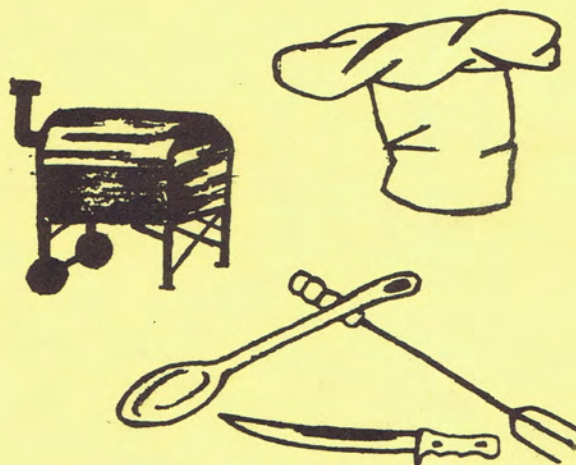
BULLETIN

mississippi geological society



VOLUME XXVII, No. 9, May, 1980

SPRING BARBEQUE
&
ELECTION



BALLOT	
1980 - 1981	
M. G. S.	
_____	_____
_____	_____

TUESDAY, MAY 20, 1980
FOWLER LODGE

MISSISSIPPI GEOLOGICAL SOCIETY

OFFICERS:

PRESIDENT	- PHILIP REEVES	- HUGHES&HUGHES
1ST VICE PRES.	- MARSHAL KERN	- INDEPENDENT
2ND VICE PRES.	- PHIL COOK	- SPOONER PET.
SECRETARY	- STEVE OIVANKI	- INDEPENDENT
TREASURER	- PHILLIP GUNTER	- COQUINA
PAST PRESIDENT	- LES AULTMAN	- CONSULTANT

DELEGATES:

A.A.P.G.	- CHARLES WILLIAMS-	MIDCONTINENT
A.A.P.G.	- NESTOR BLANCO	- PLACID
G.C.A.G.S.	- SARAH CHILDRESS	- FOREST

COMMITTEES AND CHAIRMEN:

BULLETIN	- STEVE BENEDETTI	- UNION OIL
CONTINUING EDN-	LARRY BARIA	- TIDEWAY
ENTERTAINMENT	- T.C. RADER	- CLARKCO
PROGRAM	- GERALD KINSLEY	- INDEPENDENT
PROJECTION	- FRANK JOHNSON	- INEXCO
PUBLICATIONS	- PHIL COOK	- SPOONER PET.
PUBLICITY	- MARSHAL KERN	- INDEPENDENT

NEWS BULLETIN STAFF:

EDITOR	- STEVE BENEDETTI	- UNION OIL
ADVERTISING	- MARSHAL KERN	- INDEPENDENT
AUXILIARY	- MRS. JERRY (RUTH) ZOBLE	
GEOPHYSICS	- KLYNE HEADLEY	- FLORIDA GAS
IND. PROGRESS	- MICKEY McGUIRE	- CHEVRON OIL
PHOTOGRAPHY	-	

RED BOOK COMMITTEE:

KIPP FERNS	-	- AMER. NAT. GAS
SIMEON KING	-	- HUGHES&HUGHES
LES AULTMAN	-	- CONSULTANT
DON TURNER	-	- UNION OIL

M.G.S. SPRING BARBECUE & ELECTION

The annual Mississippi Geological Society Spring Barbecue will be held on Tuesday, May 20, 1980, at Fowler Lodge. Geotech Mudlogging from Harahan, Louisiana will sponsor the barbecue this year. There will be beer and a bar as well as door prizes. Doors will open at 4:30 p.m. with dinner served at 6:30. Members will be admitted free while non-members will be charged \$10.00. At the same time the annual election of officers for 1980-81 will be held. A slate of candidates with a short biography is presented in this issue of the bulletin. If you will be unable to attend the meeting, an absentee ballot is included in the bulletin. Please fill out and mail to Steve Oivanki c/o M.G.S. prior to May 20, 1980.

Mr. T. C. Rader will cook up a delicious meal consisting of beef-ham-sausage-etc. T. C. says it will be "more better" than last year. So be ~~sure~~ to call reservations to T. C. at Clarkco 969-3286 by noon, Monday, May 19, 1980. He could also use some volunteers, so give him a call if you have some free time on the 20th.

T. C. also wishes to thank Dresser Atlas for helping with the Boat Party and hot-shotting the crawfish from Louisiana.

NEW MEMBERS

- PAUL A. DOOLEY - U.S.G.S., Jackson, MS.
- JAMES V. HORTON - Coquina, Jackson, MS.
- PETER W. MINKLER - U.S.F.S., Menlo Park, CA.
- GEORGE W. PIRTLE - Independent, Tyler, TX.
- MORTON E. WAKELAND, JR. - Grace Petroleum,
Jackson, MS.
- E. GREGG WATTS - Geomap, Houston, TX

PRESIDENT'S NOTES

The end of the Mississippi Geological Society year is fast arriving with the Spring Barbeque being the final event. Of course, we are looking forward to this great time as we have in the past; however, those of you who missed the Ladies' Night - Spring Fling - really missed a wonderful time of entertainment, food, and relief from the foul weather. Approximately 40 couples showed up for this event at the reservoir and a great time was had by all. The chief cook, T. C. Rader, and his able assistant, Roger Dickerson, did an excellent job in preparing the shrimp and crayfish. It was enjoyed by all. I wish to take this opportunity to thank them on behalf of the Society. Also, a special thanks to Dresser-Atlas for transporting the crayfish up from Montegut, Louisiana.

Since this will be the last Bulletin for this year, I would like to take this opportunity to report to you on the progress of the projects which we have attempted this year for our Society. The Scholarship Fund in the name of Larry Boland is presently in the hands of the attorneys. We feel that this will be fully established by the fall of 1981. I believe that this is something that the Society can be proud of, and we will be able to help others to begin a life in a career of geology. The other project that we have attempted has been the updating of the Red Book. There is no way that I could make you understand the monumental task that this is; however, our committee, headed by Kip Ferns, has done a remarkable job, and at the present time, we have 33 fields that are being printed and should be ready for sale very shortly. This is only a beginning since there are many other fields that have been discovered and should be placed in our Red Book as soon as possible.

MISSISSIPPI GEOLOGICAL SOCIETY
TREASURER'S REPORT
JUNE 1, 1979 TO APRIL 9, 1980

CREDITS

Bulletin Advertising	\$ 2,870.00
Publications	2,190.50
Meetings	4,173.83*
Dues	4,850.00
Continuing Education	1,078.00
Miscellaneous	154.60
Transfer from savings	3,000.00
Total.....	\$18,315.83

DEBITS

Printing Costs	2,892.74
Meetings	3,565.13
Secretarial and Service	1,560.00**
Postage	897.28
Office Supplies	170.10
Storage	350.00
GCAGS and AAPG	220.00
Continuing Education	1,401.45
Savings Deposits	3,500.00
Miscellaneous	1,600.06*
Total.....	\$16,156.76

Bank Balance (6/1/79)	\$ 260.37
Income (6/1/79 to 4/9/80)	18,315.83
Total.....	\$18,576.20

Expenses (6/1/79 to 4/9/80)	\$16,156.76
Bank Balance (4/9/80)	\$ 2,419.44

SAVINGS ACCOUNTS - 4/9/80

First National - (Golden)	\$ 2,677.23
First National - (Silver)	1,612.06
Unifirst	3,586.78***
Total.....	\$ 7,876.07

Bank Balance 4/9/80	\$ 2,419.44
Plus Savings 4/9/80	<u>7,876.07</u>
Total Cash on Hand....	\$10,295.51

*Figure includes \$1,000.00 cash drafts used for collection change at eight meetings.

**Includes \$760.00 drafting expense for Red Book.

***A \$620.00 Red Book drafting payment was made directly from this account 6/28/79.

MISSISSIPPI GEOLOGICAL SOCIETY
BOARD OF DIRECTORS MEETING
April 15, 1980

MINUTES

Members Present: Phil Reeves, Marshal Kern,
Steve Oivanki, Phil Gunter, Les Aultman

The Spring Bar-B-Que is scheduled for May 20th at Fowler's Lodge. GEO Tech will sponsor the Bar-B-Que. There will be no charge for members and a \$10.00 charge for non-members.

The bulletin will be published early this month so that the nominations for officers can be reviewed by the membership. It was decided to print an absentee ballot in the bulletin to give those who can't attend the Bar-B-Que a chance to vote.

The Society will take a 1/2 page ad in the 1980 GCAGS Transactions at a cost of \$140.

Photos taken at the Spring Fling will be printed in the bulletin.

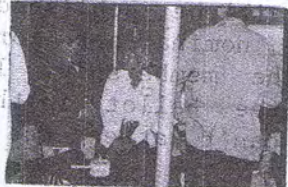
Stephen Oivanki,
Secretary

\$ 2,419.44
7,876.07
\$10,295.51

SPRING FLING
April 11, 1980
At the Reservoir



***A \$620.00 Red Book
directly from this



AAPG SEALS FOR HYDROCARBONS
RESEARCH CONFERENCE
SEPTEMBER 14-17, 1980
KEYSTONE LODGE
KEYSTONE, COLORADO

The Seals for Hydrocarbons Research Conference is being convened by T. T. Schowalter and M. W. Downey to focus attention on a fundamental, but relatively neglected area of petroleum geology. Recent advances in organic geochemistry and the study of migration have added to the understanding of the significance of hydrocarbon seals. The program is divided into discussions of the "micro" view (seal capacity, permeability, hydrodynamics and prediction from core data), and the "mega" view (world-wide review of types, controls in faulted structures, trap leakage detected by acoustical devices, evaporites as seals, etc.) and a general session on the direction of future research. Besides the two conveners, speakers will be R. R. Berg, Texas A & M; D. S. Stone, Independent; B. Roberts, Gulf R & D; H. Grunau, Petroconsultants; R. J. Murris, Royal Dutch Shell; U. S. Allan, Shell Oil Company; W. E. Sweet, Jr., U.S.G.S.; Susan Landon, Amoco; J. A. Masters, Canadian Hunter; W. R. Bryant, Texas A & M; D. T. Secor, Jr., University of South Carolina; K. Magara, University of Texas and V. Schmidt, Petro-Canada. The conference schedule will be morning and evening talks with afternoons free for further discussions or recreation.

The conference will be limited to 80 participants on a first-come, first-served basis. If you are interested in participating, write Sondra Biggs, Convention Manager, AAPG, P. O. Box 979, Tulsa, Oklahoma 74101, as soon as possible.

facies relations of these "representative" sections to regional variations. Maps of various kinds are illustrated including: tectonic, tectofacies, lithofacies, structural-contour, isopachous, paleogeologic, "worm's eye," etc. These maps and cross sections cover the entire Mesozoic column.

Text coverage, within Folio Series 3 is as follows: Volume I covers basic tectonic patterns of the Greater Gulf Basin and stratigraphic units up through the Louann-Werner sequence. Volume II (in preparation) will be limited primarily to the Northern Coastal Region and will cover the Louark and Cotton Valley stages. Volume III (also in preparation) will be limited to the Northern Coastal Region and will treat the Coahuilan-through-Navarro Cretaceous stages.

The folio is available by mail from the Louisiana Geological Survey, Box G, University Station, Baton Rouge, Louisiana 70893, for \$56 which includes mailing and handling. Orders must be prepaid. Copies may also be purchased over the counter at the Survey Offices in Room 141 of the Geology Building on the Louisiana State University Campus for \$50.

Editor's Note

I would like to express my gratitude to the many persons who were instrumental in helping me with the bulletin this year. Jan Quilty did an excellent job typing the bulletin for us. Super Scout Mickey McGuire kept us informed of industry activity. Kurt Rudolph and Justin Devery were the proofreaders. Marshal Kern was the advertising chairman. T. C. Rader was in charge of entertainment and Gerald Kinsley arranged our speakers. A special thanks to the Society officers who assisted in preparation of the bulletin.

Gerald Kinsley
(1st Vice President)

Academic Training:

1958 University of Missouri, BA Geology
1960 University of Missouri, MA Geology

Experience:

1960-1970 Texaco
1970 Janoex
1970-1974 Lone Star
1974- Independent

Professional Affiliations:

AAPG, SEPM, MGS, JGS, MAPL

Professional Activities:

1979-1980 MGS Program Chairman
GCAGS Judge
AAPG Judge

Steve Oivanki
(1st Vice President)

Academic Training:

1971 La. State University, BS Geology
1973 La. State University, MS Geology

Experience:

1973-1976 Pennzoil Producing Co.
1976-1979 Shenandoah Oil Corp.
1979- Consulting Geologist

Professional Affiliations:

AAPG, SEPM, MGS, SGS

Professional Activities:

1978-1979 MGS Projection Chairman
1979 MGS Secretary
1979 SGS Field Trip Instructor
1979-1980 MGS Secretary

MISSISSIPPI GEOLOGICAL SOCIETY

1980 - 1981

FIRST VICE PRESIDENT



Gerald Kinsley
Independent



Steve Oivanki
Consultant

SECRETARY



Steve Benedetti
Union Oil Company
of California



Phillip Gunter
Coquina

Simeon King
(2nd Vice President)

Academic Training:

1977 Univ. of Southern Miss., BS Geology

Experience:

1977- Hughes & Hughes

Professional Affiliations:

AAPG, MGS

Professional Activities:

1978-1979 MGS Editor

1979-1980 MGS Red Book Committee

Ed Luper
(2nd Vice President)

Academic Training:

1948 La. State University, BS Geology

Experience:

1948-1949 Kerr McGee

1949-1954 Southern Production Co.

1954-1959 Tenneco

1959-1970 Henry N. Toler, Consultant

1970- Miss. Bureau of Geology

Professional Affiliations:

SEPM, MGS, Miss. Acad. Sci., GRC

Professional Activities:

1974-1975 MGS Editor

1976-1977 MGS Secretary

1977 AAPG Judge

Alan Cockrell
(Treasurer)

Academic Training:

1972 University of Alabama, BS Geology

Experience:

1972-1978 U.S. Air Force
1976-1977 Ala. Geological Survey
1978- Grace Petroleum

Professional Affiliations:

AAPG, MGS

Professional Activities:

None

John Marble
(Treasurer)

Academic Training:

1974 Miss. State University, BS Geology

Experience:

1974-1977 Miss. Geol. Survey
1977-1979 Cities Service
1979- Forest Oil Co.

Professional Affiliations:

MGS, Miss. Acad. Sci.

Professional Activities:

None

CANDIDATES FOR OFFICE

1980 - 1981

SECOND VICE PRESIDENT



Simeon King
Hughes & Hughes



Ed Luper
Mississippi Bureau
of Geology

TREASURER



Alan Cockrell
Grace



John Marble
Forest

ABSENTEE BALLOT

Mississippi Geological Society
Election of Officers, 1980-81

For 1st Vice President:

___ Gerald Kinsley ___ Steve Oivanki

For 2nd Vice President:

___ Simeon King ___ Ed Luper

For Secretary:

___ Steve Benedetti ___ Phil Gunter

For Treasurer:

___ Alan Cockrell ___ John Marble

If you cannot attend the election at the
Spring Bar-B-Que on May 20th, please mark
your choices on this ballot and return it
as soon as possible to:

Secretary
Mississippi Geological Society
P. O. Box 422
Jackson, MS 39205

Please put the word BALLOT on the outside
of the envelope.

Note: This ballot is for absentee voting
only. Regular election ballots will
be distributed at the Bar-B-Que.

SIGNATURE

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David Skiles Area Exploration Manager

EXPLORATION SURVEYS, INC.
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& Dallas, Texas 75206
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Glynnes White

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Jackson, Mississippi 39201
601-969-6600

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Suite 1700 Capital Towers
Jackson, Mississippi 39201
Phone: 355-1542

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BOB LEGATE
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Jackson, Miss. 39206 Home: 601-939-0390

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Glen Clark	Harvey Koehne
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JIM MCGINNIS 601-932-1897 BILL HARPER

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Allen W. Woolf, V. Pres. A.B. Irion Drlg Supt.
Tyler, Texas 214-561-4051
Natchez, Miss. 601-445-4570

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Primos Building
P. O. Box 22928
Jackson, MS. 39205
(601) - 969-3337

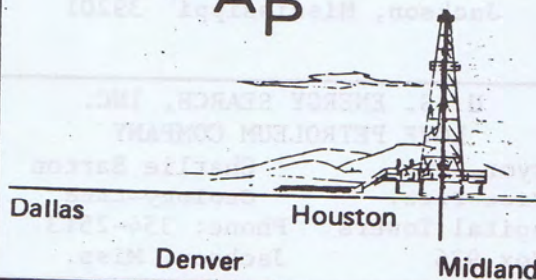
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Environmental Scientists
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T. H. CLEMENTS & ASSOCIATES Consulting Geophysicists 944-0075 633 North State Street, Suite 404
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DALE EXPLORATION COMPANY P. O. Box 850 Vidalia, Louisiana 71373
FIRST ENERGY CORPORATION P.O. Box 12710 700 North Street Jackson, Miss. 39211 948-7550
X. M. FRASCOGNA, GEOLOGIST 1156 DGB Plaza Jackson, Mississippi Phone: 969-1888
JOSEPH F. FRITZ Petroleum Geologist Jackson, Miss. 601-354-1134
H. LEROY FULGHUM, Consulting Geologist 257 Valley Vista Drive 601-956-6346 Jackson, Miss. 39211
JAMES B. FURRH, JR. Oil Producer 1236 Capital Towers Jackson, Miss.
GENERAL AMERICAN OIL CO. OF TEXAS John Suthoff, Consulting Geologist 504 Standard Life Bldg. Jackson, Miss. 39201 601-353-0103
PAUL GRIBAS Petroleum Geologist 601-362-3314 Suite L/5250 Calaxie Dr., Jackson, Ms. 39206
GUARDIAN OIL COMPANY L. Graham Hughes 1140 Capital Towers Jackson, Mississippi

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CALENDAR

- May 16, 1980 - J.G.S. Golf Tournament
& Picnic
Brookwood Country Club
- May 20, 1980 - M.G.S. Spring Barbecue
Fowler Lodge
Doors open 4:30 P.M.
Dinner 6:30 P.M.
- June 8-11 - AAPG - SEPM Annual
Convention
Denver, Colorado