

mississipp

geological soci

VOL. XX, No. 1, SEPTEMBER, 1972

GOLF BARBECUE OPENS MGS 34TH YEAR

GOLF AND BARBECUE OPEN 1972-73 MGS YEAR

The Mississippi Geological Society will open the 1972-73 year with the annual fall golf tournament and barbecue, Friday, September 29th.

The MGS "Duffer's Delight" golf tournament will start the day's festivities. Tee off time will be 10:00 a.m. at Live Oaks Country Club and golf chairman Verne Culbertson suggests that everyone make up their own foursomes. The green fee this year will be \$3.00. All golfers are encouraged to attend. Foursomes can be made up at the registration desk, so come one and all!

Live Oaks is a beautiful and challenging course. Arrangements have been made to have beer and sarsaparilla served to duffers at the more difficult greens. The defending champ, Verne Culbertson, looks tough and will be hard to dethrone. No need to worry about rains as the Farmer's Almanac restricts precipitation to the "Yankee northwestern states." Prizes will be available for a variety of Herculean feats and big shinny trophies will be given to deserving champions at the evening barbecue.

The annual barbecue will be in conjunction with the golf tournament on September 29th and will be held at the "Firemen's Lodge" on Ross Barnett Reservoir. Doors will open at 4:30 p.m. and at 6:30 p.m. barbecue will be served. Beer will be available when the doors open, so geologists should come early and try to deplete the reserves.

Expenditures for meetings were more than double our meeting income for last year. The executive committee notes that much of this expenditure is related to the increased costs involved in the spring and fall barbecues. Therefore this year there will be a nominal charge of \$2.50 per person. As in previous years each member's current MGS dues must be paid either in advance or at the door.

T. C. Rader, Halliburton Services, tells us that this year's event should be circled red on every member's appointment calendar.

Halliburton personnel from Laurel, Mississippi are going to put on an "old-fashion type barbecue" cooked at the lodge. They will handle all arrangements for food and refreshments. It is essential to know the number of members planning to attend the barbecue so that the proper amount of food may be bought and prepared. CALL YOUR RESERVATIONS IN EARLY. CALL T. C. RADER AT 948-4128 NOW!

Since food would be barbecued on the premises, it was necessary to hold the event at the "Firemen's Lodge" rather than Fowler Buick Lodge as on previous occasions. The lodge is located on the east side of the reservoir. Take Old Canton road to the reservoir crossroads. Turn east and proceed across the breast of the dam. Continue east along this road for 5.5 miles from the east side of the dam until you intersect State Road 471. Turn left, cross Pelahatchie Creek and turn left again at the first paved road passed the Pelahatchie Creek bridge. Continue for 4 miles to Fannin Landing. Take the first gravel road to the left passed Fannin Landing to Firemen's Lodge. The accompaning map shows the above route in heavy ink with direction arrows.

Beer will be plentiful and cold and T. C. Rader says the barbecue is "finger lickin' good," so make your reservation and plan to attend.

"A Country That Runs On Oil Can't Afford To Run Short"

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

SEPT. 9 Petroleum Auxiliary Membership Luncheon Colonial Country Club

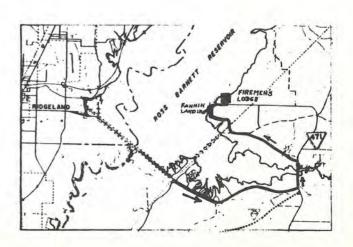
SEPT. 29 MGS Golf Tournament, Live Oaks Golf Club

Tee Off Time 10:00 a.m. Beer and Barbecue

Firemen's Lodge

Beer at 4:30 p.m.; Barbecue at 6:30 p.m.

FOR BARBECUE RESERVATIONS CALL T. C. RADER (948-4128) BY NOON WEDNESDAY, SEPT. 27.



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PRINTED IN JACKSON, MISSISSIPPI

from the editor -

This, the first edition of the News Bulletin for the new season, marks the 34th Anniversary of the MGS and the twentieth year of publication for the Bulletin. Bob Beu and John Ryall, Chevron, were associate editors in 1969 and 1970 and were responsible for the format of the Bulletin in its present form. Dave Cate, Skelly, responded to the call last year and did an admirable job. Their editorial shoes are difficult to fill. Their dedication, time, and effort are more fully appreciated when one falls heir to their responsibilities.

My first assemblage of articles for the Bulletin noticeably follows the pattern set by those mentioned above. Their success has been demonstrated by favorable letters from the membership, and I intend to "stick with a winner". However, in my infancy as a scribe, I probably shall crawl through the first few issues with uncertanity until some good reportorial habits are established.

Previous editors in their inaugural pages have solicited material from the membership at large for publication in the Bulletin. This is your paper. I, also, urge you to use it as a springboard for your literary talents. There are those among you who are in-the-know regarding federal, state, and local issues pertinent to the interests of our profession. Be a responsible society member and submit these items for publication and help keep us all informed. Each month it would be ideal to have a short feature article. Your suggestions and contributions along these lines are welcome.

The goal for the coming season is to continue the publication of an interesting and informative bulletin. The positive attitude of the MGS officers, the high caliber of the men on the News Bulletin staff, and the financial support of our many sponsors are the plus factors that tend to make the task easier. Add to that the secretarial help of Jo Ann and Carolyn at Austin's Secretarial Lettershop and the printing expertise of Jerry Yoste at Ridgway's and this endeavor looks rosier all the time.

The little black cloud hovering over the project and shading my goal is "material". But....who worries about that. My raincoat of optimism is that geologists are natural data gatherers and collectors and, if I am flooded, I know it will be with technical articles worthy of publication in the Bulletin.

BULLETIN AND ADS TERMINATE WITH 71-72 DUES YEAR

This first issue of the Bulletin is being sent to all members of the Society who paid 1971-72 dues. If you have not paid the five dollars for your 1972-73 dues by now—you are in arrears. September is the end of the grace period for receiving the Bulletin. Starting with the October issue the Bulletin will be mailed only to those listed on the 1972-73 membership roster.

The Society's advertisers are alerted that last years ads for the News Bulletin also expire with this edition. The October Bulletin will carry only those ads paid for by printing time in mid-September.

We wish to thank last years sponsors of the News Bulletin. Without

personal news -

New at Gulf Oil Co.-U.S. is Gary S. Dieckmann. Gary is a graduate of the University of Missouri-Rolla in 1972 receiving a B.S. degree in geology. His home is Affton, Missouri.

Also new in Jackson for Gulf Oil Co.—U.S. is Larry R. Bennett who moved here in March 1972, Larry received a B.S. degree in mathematics from New Mexico Mining & Technology. He has worked in Rosiwell, New Mexico and was transferred here from Ojakarta, Indonesia. His home is Tucumeari, New Mexico, Both men are explorationists.

State Geologist and Director of the Mississippi Geological Survey, William Moore, announced the appointment of David R. Williamson to the agency's staff as a geologist.

A native Jacksonian, Williamson has served on the Survey's staff since 1966 as a part-time assistant while attending school. He is a 1965 graduate of Provine High School and attended Mississippi State University and Millsaps, receiving his Bachelor of Science degree in geology from Millsaps.

Williamson's duties at the Survey will begin with a geological survey of Clarke county to determine the mineral resources of the area,

Williamson is married to the former Peggy Glyn Slay of Jackson. They have a son, Matthew David, who is 18 months old. Williamson is a member of the First Baptist Church, Clinton; and the Mississippi Archeological Society,

Jim White, formerly with Skelly in Jackson, has accepted a position with Marr Co. as geologist, effective August 15th.

Mr. John Lacey, formerly with Southwest Gas, Lafayette, Louisiana, has joined Marr Co. as landman, effective August 15th.

James W. (Buddy) Twiner, formerly a geologist with Skelly in Jackson, has joined Union Oil of California as geologist. Union's offices are in the Petroleum Building here in Jackson.

PETROLEUM AUXILIARY

The Women's Geological Auxiliary and the Black Gold decided last May to combine their memberships. The new club, the Petroleum Auxiliary, has elected the following slate of officers for the 1972-73 year: President, Mrs. Jan Baker; 1st Vice President, Mrs. Marvin Oxley; 2nd Vice President, Mrs. W. O. DeWitt; Secretary, Mrs. Chet Force; Treasurer, Mrs. Tom Jones; Reporter, Mrs. Earl Anderson.

The first meeting of the new group was a membership luncheon at Colonial Country Club on Tuesday, September 19th,

Membership in the Petroleum Auxiliary is not restricted to geologists wives as was the WGA. All women whose husbands are affiliated with the oil industry are eligible for membership.

aapg news -

Fred A. Dix, Jr. of Corpus Christi, Texas, has been named treasurer of the American Association of Petroleum Geologists, it was announced July 6 by James E. Wilson, president.

Dix, 40, assumes the post left vacant by the air crash death of H. B. Renfro, 57, of Dallas who died June 23.

He has been a geologist with Mobil Oil Corp. since 1965, first in Jackson, Miss. and then as associate exploration geologist in Corpus Christe since 1966. It is anticipated he will move to Houston later this year with Mobil.

A member of AAPG since 1957, Dix has been chairman of the Committee on Statistics of Drilling and was also the AAPG representative on several API committees.

BULLETIN (CONTINUED)

their help we would not be able to print it. In turn, let's show our thanks by calling a News Bulletin Sponsor when we have need of a service company, and....tell them where you read their ad, it helps.

president's not

by Charles Barton

It is with considerable apprehension that I embark upon the task of trying to fulfill the duties of the office that our membership has so graciously bestowed upon me. It is only through the help and

co-operation of this membership that my duty has been greatly lightened, This is the type of aid that keeps ours a sound and active organization.

The prior administration is to be congratulated for a very good past, year. It is anticipated that the Jurassic Cross Section Project will provide a substantial income. This project should be finished and ready for the fulfillment of orders by the time the G.C.A.G.S. Convention meets in Corpus Christi in October.

Again, as was the case last year, we have a succession of some holdover officers moving into new



CHARLES BARTON PRESIDENT

positions. This, of course, has the effect of smoothly transferring current business over to the new administration.

Committee appointments have been graciously accepted as follows:

A. Standing Committees

AAPG Membership	Bob Bue & Kevin Cahill
Entertainment	Jim Skeen
Field Trips	Bill Moore
Nomenclature	Jim Bollman
Program	Marshall Kern
Projection	Richard Lewis
Bulletin	Harry Fritz
Advertising	Paul Day
Statistics	Jim McMullen
Publicity	Charles Williams
Golf	Verne Culbertson

B. Representatives

House of Delegates	Kevin Cahill	
House of Delegates	Larry Boland	
GCAGS	Roy Jindra	

C. Special Committees

Gerald Kinsley has accepted the job of getting additional supplements for the Red Book. This is an important facet of our Society's service to its members and the petroleum industry.

Buddy Twiner has ten maps that were readied for distribution during the past year. These have already been mailed in accordance with the standing order list. Anyone else desiring to purchase these maps should contact Dean Kebert.

If we can get ten new maps a year ready, we can soon completely up-date our Red Book.

The MGS Executive Committee met July 5 to iron out some of the current problems which we are faced with. They voted into effect a nominal charge of \$2,50 per person per barbecue for paid up members of MGS. This course of action was decided upon in lieu of an immediate increase in dues. This action was prompted by several facts. The cost per person for each of these barbecues is currently about \$5.00. This is more than double what the cost was when these barbecues were first instigated several years ago. However, we are still operating on the same FIXED income of \$5.00 per year dues per member. This charge for the barbecues is hopefully a temporary stop gap measure to slow the depletion of our treasury. An increase in dues to \$10.00 annually was favored by the Executive Committee. It was felt that this would provide an adequate FIXED income to keep your Society on a sound financial basis. However, this action must come by a vote of the Society members. An increase in dues to \$10.00 annually beginning with the 1973-74 year will be proposed and voted on during the current year. Such an increase in dues would relieve the necessity for the barbecue charge.

President's Notes (cont i

The Committee further approved a change in the by-laws of the GCAGS Constitution. This change brings the by-laws into line with the rules under which the GCAGS has actually been in operation for approximately ten years. As a final act, the Committee approved the extension of an invitation to the GCAGS to nold its convention in Jackson in 1975.

progress -

Mississippi Completions: January to July 1972

Exploratory	Oil	Gas	Dry
Eocene	2	0	44
UK	0	0	13
LK	1	0	8
Jurassic	2	1	29
Paleozoic	0	0	2
Development			
Eocene	18	0	28
UK	10	2	10
LK	7	1	5
Jurassic	15	0	8
Paleozoic	0	0	4

New Field Discoveries: January to July 1972

New Field Discoverie	es: January to July 1972
Lake Como 2-28-72 Cistercian	Texas Pacific No. 1 Jackson sec 4-1N-11E Jasper Co. IP/F (16236-658)Smackover "A" 946 BOPD + 1370 MCFGPD 21/64" ch; TP 1400; Grov 45.4° IPF (16700-17033) Smackover "B" 380 BOPD + 600 MCFGPD 22/64" ch; CP 35; Grov 46° Harkins No. 1 Cistercian Monastery
1-21-72	Sec. 29-3N-12E Jasper Co. IP/P (10514-18) Hosston 179 BOPD + 197 BWPD ½" ch; TP 30; Grov 40.60
Piney Creek 5-2-72	Germany-Gulmon No. 2-11 Crosby 2-3N-1W Wilkinson Co. IP/F (7042-7045) Wilcox 166 BOPD + 1 PWPD 12/64" ch; TP 160; Grov 340
Vossburg 5-8-72	Getty No. 1 Reed 33-10 sec 33-2N-13E Jasper Co. IPF (15237-276) Lower Smackover 190 BOPD + 132 MCFGPD 30/64" ch; TP 330; Grov 40.5° IPF (14752-772) Upper Smackover 266 BOPD + 260 MCFGPD open ch; TP 80; Grov 42°
S. E. Darrington 6-26-72	Clement & Stover No. R-1 Crosby Sec. 36-4N-1W, Wilkinson Co. IPF (6612-14) Wilcox 70 BOPD 7/64" ch; TP 245; Grov 33° Cities Service No. 1 Sanders "A"
5-24-72	Sec. 8-9N-7E, Copiah Co. IPF (19526-20436) Cotton Valley 27 BOPD + 1064 MCFGPD + 32 BWPD 8/64" ch; TP 7600; Grov 41.40

It's what you learn after you know it all that counts.

* * * * * * * * * * *

No one is ever beaten until he gives up the fight.

industry briefs

As of January, 1972, Larco Drilling Company, Inc., was created as a wholly owned subsidiary of Transcontinental Oil Corporation, James A. Latham, President, which headquarters are in Shreveport, Louisiana, Heading the new organization in Jackson are Robert C. Pope, Executive Vice President, and James N. Wallace, Vice President, James F. Bollman is Geologist, and is in charge of exploration.

Effective July 1, 1972, Skelly Oil Company's Jackson, Mississippi Exploration Office was closed. The direction of all Exploration activities for the Gulf Coast East District will be from the Exploration and Production Office in Lafayette, Louisiana, under Mr. Claude A. Teel, District Exploration Manager.

Skelly had maintained an exploration office here since 1943, covering Mississippi, Alabama, Florida, and portions of Louisiana. At the time of closing, Skelly had 9 geologists, 3 geophysicists, and 5 landmen in Jackson. Geologists who moved to Lafayette were Dave Cate, John Paxton, Andy Rogers, Bob Dickinson, Don DeMarte, and Joe Morgan. Sherod Harris was transferred to Denver and Buddy Twiner resigned to join Union Oil of California in Jackson. All the geophysicists and landmen with the exception of Ed Magee have moved to Lafayette. Ed resigned to become an independent landman in Jackson.

publications -

The Mississippi Geological Survey announces the release of Information Series 72-2 entitled "Fossil and Mineral Collecting Localities of Mississippi" by Leslie P. Pitts and Michael Bograd. This publication is 40 pages in length and contains descriptions of 29 collecting localities in 18 counties with accompanying county maps showing the locations of the collecting points.

MGS 72-2 can be obtained from the Mississippi Geological Survey office at 2525 North West Street for \$.50 (fifty cents) or may be ordered from P. O. Box 4915 for \$.50 plus \$.25 for postage.

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MEMORIAL

Mrs. Paul L. Applin

Mrs. Paul L. Applin (Esther Richards) passed away Sunday evening, July 23rd. She was a native of Newark, Ohio and received her education at the University of California, Berkeley, receiving the AB Degree in 1919 and the MA Degree in 1920.

Esther began her professional career in 1920 in Houston, Texas with Rio Bravo Oil Company engaged in a project supported by several other companies which resulted in pioneering the field of micropaleontology for the petroleum industry.

In 1927 Esther moved to Ft, Worth as a consulting geologist until 1942 when she joined the Department of Geology, University of Texas as Assistant Professor of Geology.

Esther joined the Fuel Branch of the U.S. Geological Survey, 1944, in Tallahassee, Florida, She moved to Jackson, Mississippi in 1951 and retired from the Survey in 1962. She continued to be active in the Petroleum Industry after her retirement.

Esther married Paul L. Applin in 1922. The devoted couple, both geologists, shared a full life combining career and family.

Esther received many honors from her profession: Meritorious Service Award from the U.S. Geological Survey, Honorary Member of S.E.P.M., Mississippi Geological Survey, and Geological Society of America. She was listed in Who's Who of American Women and Who's Who of American Men and Women of Science.

Survivors are Paul L. Applin, Paul, Jr., and a daughter Louise. Joseph Franklin, Jr.

Dr. H. B. Renfro

Dr. H. B. Renfro died in a tragic air crash in New Mexico late Thursday, June 22nd, Pete was Treasurer-elect of AAPG, and was to have taken office on July 1. He was also Chairman of the Geological Highway Map Committee. The Association and the scientific world have lost a dedicated and knowledgeable associate and friend. Our sincere sympathy has been expressed to his family by the AAPG and by Executive action, we have dedicated the soon-to-be published Geological Highway Map No. 7 (Texas) to the memory of Dr. Renfro.

AAPG Executive Committee

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Society

VOL XX, NO. 2, OCT., 1972

PETROPHYSICAL ANALYSIS NEW EXPLORATION TOOL TOPIC FOR JOINT MEETING MGS JGS OCT. 18

VICE PRESIDENT OF GTS CORP. TO ADDRESS COMBINED MEETING OF MGS – JGS

Mr. Phillip L. Work, Vice President of GTS Corporation, Houston, Texas, will address a joint meeting of the Jackson Geophysical Society, and the Mississippi Geological Society to be held Wednesday evening October 18, at the King's Inn in Maywood Mart. The title of Mr. Work's talk is "Digital Well Logs + Digital Computer = A New Practical Exploration Tool." The meeting will

begin with a social hour at 5:30 p.m. followed by dinner at 6:30 p.m.

Mr. Work graduated from the University of Pittsburgh with a B.S. degree in Geology in 1955. He was employed by the United Geophysical Corporation from 1955 to 1965 during which time he worked as a Seismic Party Chief in California and Western Canada, and then as Supervisor — Data Processing in United's Pasadena Data Processing facility, In 1965 Mr. Work joined GTS Corporation as



PHILLIP L. WORK

Manager — Los Angeles Sales Office. In 1969 Mr. Work was elected Vice President — Marketing of GTS Corporation, and is based in Houston, Texas. He is a member of the Houston Geophysical Society, Geological Society of Houston, Society of Exploration Geophysicists, the Society of Petroleum Well Log Analysts and the American Association of Petroleum Geologists. Mr. Work served as Vice President of the Pacific Coast Section of the Society of Exploration Geophysicists in 1967 and as Entertainment Chairman for the 41st International SEG Meeting held in Houston last year.

The Mississippi Geological Society is fortunate to have a speaker of Mr. Work's caliber for the first formal meeting of the fall season. It is also a pleasure to host our friends from the Jackson Geophysical Society for this joint meeting. The abstract of the talk indicates an interesting evening for geophysicists and geologists alike, and a hearty turnout is expected from both societies.

THE COUNTRY THAT RUNS ON OIL CAN'T AFFORD TO RUN SHORT.

* * * * * * * * * * * *

DIGITAL WELL LOGS + DIGITAL COMPUTER = A NEW EXPLORATION TOOL

Phillip L. Work
GTS Corporation, Houston, Texas

ABSTRACT

Petrophysical analysis utilizing digital-log information has recently become a recognized tool in the search for oil and gas. Up to now, this method has not been widely used in exploration programs, due to the nonavailability of a mass of accurate, inexpensive digital-well-log data and adequate computer software to completely analyze the data.

These data and analysis capabilities are now available to the oil industry and can be readily used in modern petroleum exploration programs.

Results from computer analysis of digital logs from many wells can develop leads for exploration trends, locate possible bypassed hydrocarbon bearing areas, and better indicate productive horizons within a well.

STATE & FEDERAL OFFSHORE OIL & GAS PRODUCTION ACCOUNTS FOR 16% OF THE NATION'S TOTAL.

* * * * * * * * * * * * *

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

OCT, 11-13 22nd Annual Meeting GCAGS and SEPM

Corpus Christi, Texas

OCT. 17 Petroleum Auxiliary Coffee

Home of Mrs. Benton Vernon

OCT. 18 Joint Meeting MGS-JGS

P. L. Work's Paper

King's Inn, Maywood Mart

FOR RESERVATIONS TO THE OCT. 18 MEETING, CALL T. C. RADER'S OFFICE (948-4128) BY NOON TUESDAY, OCT. 17.

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PRINTED IN JACKSON, MISSISSIPPI

editorially speaking THE CARE AND FEEDING OF SLAVES

Slaves in Mississippi: On the authority of two eminent Ph.D's who have conducted in-depth population studies, there are about 1 billion slaves in the state.

The report is fear-ridden with dire predictions. Malnutrition, if not eventual starvation, is in the offing, An insatiable appetite for dwindling provisions is only part of the problem, declare these experts. If the growth rate continues, quarters for these slaves will take up so much space that masters will be forced to enjoy their dubious comforts in over-crowded conditions.

Over crowding, they contend, brings on the almost unbearable situation of living in an environment of halitosis from the fetid and noxious breath of these subservient workers.

Of course they are talking about mechanical slaves...horsepower, British thermal units, and kilowatt hours; but, they go on to say that us poor folks, slavewise, are much better off than Roman Emperors or Eastern Potentates of ancient times.

The energy-slave population, using their headcount, is determined on the basis of one energy-slave per amount of energy required for one person to do the same amount of work; thus, according to their calculations, the average is 500 energy-slaves per person. The United States, then, would have more than 100 billion, New York City about 5 billion and Mississippi over 1 billion.

The conclusion is reached that, not unlike his human counterpart, the energy-slave must be fed and cared for; that he is a big eater; gives off body heat; his emissions sometimes noisy, most times noisome, and in congested areas oftentimes judged to be harmful to human, plant, animal and aquatic life; that he produces at a rodent rate; is created to die young and to be replaced by a new and better breed. They advocate the pill. . or zero growth.

If the "industrial pill" is even being discussed by manufacturers of energy-producing creations, the conversations cannot be heard over the clamor for more and more consumer goods and services. We must, therefore, consider the plight of industries called upon to provide food (fuels) for the slaves. Here are just some of the mouths to feed: automobiles and locomotives, electrical generating plants, heating and cooling systems, manufacturers of goods and gadgets, steel mills and refineries. Seventy-five percent of the fuel needed to feed these and all other energy producing establishments comes from oil and natural gas. . . refined or processed,

While we do not consider these eaters monsters, we do know that they have monstrous appetites. They seem to like best that three-fourths portion of pie made from oil and natural gas; and, since it is a big hunk in the plate, Mr. and Mrs. Average American give little thought to the next baking.

(continued next column)

(SLAVES continued)

Well, the facts are quite different from appearance, and that's where the malnutrition factor comes into the picture. They've gotta quit eating so much, and Joe, Jean and the kids will have to start dieting...like doing with less gas, fewer lights and ad infinitum of creature comforts until more reserves can be added to the dwindling stockpile of provisions (crude oil and natural gas).

Maybe we're not as close to "brownouts" in Mississippi as some would have us believe. On the other hand, Mississippi is fast becoming a dependent producing state. By simple arithmetic, one merely multiplies the state's population by three (3) gallons (of crude oil) per day per person to arrive at a consumption figure. At present we are producing at a rate greater than the needs of total population. But we are also producing at a faster rate than new reserves are being established (See Table I).

All states are not so fortunate. Most are entirely dependent upon sister states (and foreign sources) for their present three-gallon daily quota of crude oil and natural gas, What most Americans do not seem to appreciate is the fact that consumption will double and redouble by the end of this century.

This leads to the final conclusion that raw materials (oil and gas), to satisfy the monstrous appetites of billions of energy-slaves, must be looked for in every nook and corner. . .including the Outer Continental Shelf.

To Mississippians, the Outer Continental Shelf means Mississippi Water Bottoms. .the outer reaches of the Sound and that small, two-mile strip of sea separating federal and state lands in the Gulf of Mexico. It would appear that it is one hope of remaining a self-sufficient producing state, with something left over to share with the have-not areas of the country.

RECORD OF PRODUCTION AND PROVED RESERVES (BARRELS) FOR 10—YEAR PERIOD BEGINNING 1962

Year	Reserves At Beginning Of Year	Produced During Year	Reserves Established During Year	Reserves At Year Ending	Loss Gain (-) (+)
1962	401,170,000	54,365,000	41,578,000	388,383,000	12,787,000 (-)
1963	388,383,000	57,231,000	53,757,000	384,909,000	3,474,000 (-)
1964	384,909,000	55,550,000	27,208,000	356,567,000	28,342,000 (-)
1965	356,567,000	54,754,000	57,943,000	359,756,000	3,189,000 (+)
1966	359,756,000	53,898,000	68,244,000	374,102,000	14,346,000 (+)
1967	374,102,000	55,930,000	38,514,000	356,686,000	17,416,000 (-)
1968	356,686,000	57,542,000	26,505,000	325,649,000	31,037,000 (-)
1969	325,649,000	63,320,000	97,869,000	360,198,000	34,549,000 (+)
1970	360,198,000	64,391,000	58,934,000	354,741,000	5,457,000 (-)
1971	354,741,000	63,268,000	50,895,000	342,368,000	12,373,000 (-)
	TOTAL	580,249,000	521,447,000		58,802,000 (-)

Curtis Flowers Miss. Petroleum Council

PETROLEUM AUXILIARY

The October meeting will be an informal coffee held at the Benton Vernon Home, 5911 Pear Orchard, in Jackson on Tuesday, October 17 from 10:00 a.m. until 12:00 noon,

Nancy Vernon and Sarah Thomsen will co-chairman the event and hostesses will be Mary Lee Hagan, Martha Fluker, Pat Schweigert, and Mary Jane Gilly.

Mrs. Harold Baker, president of the Petroleum Auxiliary, is willing to negotiate a deal with MGS members. She will ask each of the geologists wives who are members of the Auxiliary to urge their husbands to join MGS, and in turn, all MGS members should tout the advantages of being an Auxiliary member.

The Petroleum Auxiliary dues are \$5.00 a year. They may be paid at the Coffee or by mailing a check to Mrs. Tom Jones, 234 Glenside, Jackson, Mississippi. While you have your pen and checkbook out...make sure your MGS dues card introduces you as an active member from June 1st, 1972 until May 31, 1973.

meetings -

22ND ANNUAL MEETING OF GCAGS

MGS members are reminded that the Corpus Christi Geological Society will host the GCAGS Annual Meeting on October 11, 12, 13, 1972, and all are invited to the "Sparkling City By The Sea." Convention headquarters will be the Sheraton Marina Inn with other additional housing also along the bayfront. Present plans include:

TECHNICAL SESSIONS

With the convention theme "Exploration - The Key To The Energy Crisis," a program of outstanding authors and papers is being assembled which will be of utmost interest to both the working geologist and management personnel.

FIELD TRIPS

- A pre-convention trip on October 10th to study the bottom and sub-bottom features of Corpus Christi Bay. The trip will be by boat where the participants will have an opportunity to observe bottom samples, cores, and a sparker profile, Participation will be limited and the cost will be approximately \$35.00 per person.
- 2. The second trip will be Saturday, October 14th following the convention and will be an examination of recent sedimentary structures and ecological environments on Padre Island National Seashore. The participants will study geology of the seashore, with the latter part of the trip including beach combing in an area only accessible to four-wheel drive vehicles. The cost of the trip will be \$20.00 per person and will include all transportation, lunch and a guidebook.
- A trip is also planned into the Monterrey-Saltillo area of Mexico by the SEPM to study the Mesozoic stratigraphy and structure of northeastern Mexico. This trip will run from Sunday, October 8th through Wednesday, October 11th.

ENTERTAINMENT

Wednesday evening will be the traditional cocktail party at the Memorial Coliseum. Thursday evening a gigantic cookout and beach party is planned on Padre Island.

The golf tournament will be held Wednesday, October 11th at the Pharaoh Valley Country Club, one of Corpus Christi's most challenging courses and the site of the 1972 South Texas LPGA tourney. Entry fee will be \$10.00 (including the prize fund) and there will be a limit of 125 players. Those indicating a desire to play will be contacted by a personal letter.

A special morning brunch will be held for the wives in the Crown Room of the Sheraton Marina Inn on Wednesday morning, October 11th, On Thursday, October 12th, a luncheon and style show will be held at the Corpus Christi Country Club. On Friday, October 13th, an exciting all-day South of the Border bus trip to Nuevo Laredo will give conventioneers a chance to do some early Christmas shopping and browse through the many quaint Mexican shops. Also on Friday, a second bus trip is planned which will follow the seashore to Rockport and Port Aransas with stops at several island boutique and shell shops. The trip back down Padre Island will feature lunch at the Million Dollar Inn.

GSA ANNUAL MEETING 1972

The Geological Society of America will hold its 85th annual meeting November 13-15 in Minneapolis, with concurrent annual meetings by its Associated Societies: Paleontological Society (its 64th), Mineralogical Society of America (53rd), Society of Economic Geologists (52nd), Society of Vertebrate Paleontology (32nd), Geochemical Society (17th), National Association of Geology Teachers (13th), and Geoscience Information Society (7th).

Convention headquarters will be the Learnington Hotel, 2 blocks from the Minneapolis Convention Center. Duplicate application forms for registration and/or housing may be obtained by writing: GSA Registration, Nolte Center for Continuing Education, University of Minnesota, Minneapolis, Minnesota 55455.

persona news -

James R. McElroy, and Frank ("Skip") Murrell with Murphy Oil Corporation have been transferred to Murphy's home office in El Dorado, Arkansas.

Emil T. Monsour, formerly with An-Son has joined Lone Star Producing Company here in Jackson.

John Paxton, formerly with Skelly Oil Company in Lafayette, has accepted a position with Lone Star Producing Company in Jackson.

David Brasfield, geologist with Tesoro Petroleum Company, 515 Bank of New Orleans Building, New Orleans, Louisiana, and former member of the MGS, has requested a restoration to membership in the Mississippi Geological Society. His application has been approved. Welcome back David!

Jim Furrh, Jr. has moved his offices from the Petroleum Building in Jackson to 1236 Capitol Towers, 125 S. Congress Street, Jackson, Mississippi.

Harold E. Karges has moved his consulting offices to 1812 Capitol Towers, P. O. Box 1635, Jackson, Mississippi.

Pruet and Hughes have moved their offices from 390 Petroleum Building in Jackson to 1111 Capitol Towers, Jackson, Mississippi.

progress -

Mississippi Completions - August 1972

Oil	Gas	Dry
0	0	8
0	0	2
0	0	3
0	0	7
0	0	1
Oil	Gas	Dry
1	0	2
5	0	3
1	0	100
1	O	5
0	0	1
	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0

New Field Discoveries - none

FREE GEOLOGY COURSE AT MILLSAPS

The Mississippi Gem and Mineral Society, in cooperation with the Millsaps College Geology Department, will offer a free, noncredit course in geology this fall as part of its educational projects.

Beginning on Thursday, September 28, the course meets each Thursday from 7 to 9 p.m. through November 16. Classes will be taught by geology professors and local geologists who will give the lectures and demonstrations in their particular fields.

The first four sessions will be conducted by Prof. Wendell B. Johnson, head of the geology department at Millsaps. These lectures, beginning September 28 and ending October 19, are: "An introduction to the Study of the Earth;" "The Chemistry of the Earth and Properties of Minerals;" "Identification, Classification and Lapidary Properties of Minerals;" and "Rocks: Types, Identification, Where They Come From and Where They Go."

On October 26 the class will learn about the "Structure and Resulting Grand Forms in the Deformation of the Earth," and on November 2 "Erosion, Weathering and The Processes Involved." Fossils will highlight the November 9 session, with a study of "Geologic Time and the Fossil Record"; and the final meeting on November 16 will cover the "Geology of Mississippi."

Space will necessarily be limited to the number of seats in the classroom. Those who are interested should call 373-2460 between the hours of 5 and 8 p.m. week nights. Anyone, student, teacher, housewife or professional, who wants to know more about the earth will find this series of lecture-demonstrations most fascinating and informative.

AAPG PRESIDENT TESTIFIES BEFORE BLM AND USGS IN NEW ORLEANS

"The time lag from lease sale to significant production is four to six years — assuming the luck of early discovery. In that period, production from the lower 48 states plus southern Alaska will have decreased by one million barrels a day, while at the same time demand will have gone up five million barrels a day."

James E. Wilson, president of the 15,000 member American Association of Petroleum Geologists, testifying in New Orleans on Wednesday, August 23, before a panel of the Bureau of Land Management and U.S. Geological Survey, Department of Interior, in support of a proposed Gulf of Mexico offshore lease sale next December, said "only early and phenomenal success (in exploration) can materially affect the trend."

At a hearing on the environmental statement relative to the proposed lease sale, Wilson showed, with a series of charts, the decline relationships of seismic work, exploratory drilling, and additions to reserves — both oil and natural gas — occuring since the mid-1950s.

"The decrease in additions to reserves," he said, "is cause for genuine concern. One can correlate backwards and say it is related to the decrease in drilling; but, drilling in turn needs prospecting, and prospecting needs incentives. The factors contributing to the decline in prospecting are complex, but the over-riding reason has been simply the cost-price squeeze and the need for availability of promising acreage."

"The Gulf of Mexico shelf area," Wilson said, "offers vast potential for possible production of both oil and gas. According to some sources, 21 billion barrels of oil and 169 trillion cubic feet of gas are reasonable potentials."

"But if one concedes," he said, "that the future potential is only as large as the proven reserves, then in my opinion this target is still one of the best and most opportune in the United States today."

Proven reserves, as outlined in the Department of Interior's Draft Environmental statement, amount to 5 billion barrels and 37.8 trillion cubic feet of gas.

He noted that in view of the large amount of future petroleum provinces under federal domain, the government's leasing policies have a great bearing on industry planning and efficiency.

The "lead time" needed to achieve most effective use of staff, equipment, and money even extends into the recruitment of petroleum oriented students, and their election of the necessary college careers.

"It therefore is incumbent upon the government," he said, "to recognize this obligation along with its consideration of the orderly resource development, protection of environment, and receipt of fair market value for leases."

Wilson, who is on a year's leave of absence as Vice President-Exploration and Production for Shell Oil Co. in Denver, assumed the presidency of the Tulsa-based professional society last month.

AAPG PUBLICATIONS TECTONIC MAP OF GULF COAST REGION, U.S.A.

Compiled by the Tectonic Map Committee of GCAGS as a joint publication of GCAGS and AAPG, the map covers the Gulf Coast Structural Province within the States of Texas, Louisiana, Arkanses, Mississippi, Alabama, Georgia and Florida.

Regional structure is shown by contours on numerous datum beds whose ages are indicated by bands of color. Also shown are the Salt Domes, both Onshore and on the Continental Shelf portion of the Offshore. The map scale is 1:1,000,000, and sells for \$7.50 to AAPG—SEPM Members, and \$9.00 to nonmembers.

A great society can take the people out of the slums, but only a good society can take the slums out of the people.

STRATIC PHIC OIL & GAS FIELDS

Memoir 16, is off the press-a joint publication with SEG. If you are interested in stratigraphic-trap exploration, its present status and future outlook, you'll want this new book. Edited by Robert E. King, it covers sections on Classification, Exploration Methods, and 35 Case Histories. The volume has 51 papers covering 697 pages, by 69 authors.

The cost to AAPG members is \$24.00 and \$30.00 to nonmembers. Order now for your "first edition."

AAPG PRESIDENT DISCUSSES GOV'T-ENERGY INDUSTRY RELATIONSHIPS

At the request of United Press International, Mr. James E. Wilson was asked to comment briefly on the following three areas of relationships between government and the energy industry. While his viewpoints are personal and not official AAPG position, his thought was to share his responses with you. As quotes, they may appear, in whole or in part, in UPI's weekly column "Energy World."

1. Energy Policy

"Existing 'policies' bearing on energy in both federal and state governments are complex. Relationships have been worked out that functionally are, for the most part, satisfactory. A single national fuels and energy policy should be broad in character and designed to encourage development of all fuels. It should allow or foster competition BETWEEN fuels, to the extent consistent with national security, conservation, environmental consideration, equity, and competition for individuals and businesses. Recognizing the necessity for significant imports of oil and gas, it must have extensive and integral relationships in our foreign affairs."

Cabinet

"While the level of concern and requirements for coordination do indicate such a level of position, an organizational change alone will neither simplify nor quickly resolve the problems. Executive directives and legislative action are needed within the existing framework while we study more carefully just how such a position would function. A cabinet level office might make the executive branch more responsive to public needs. Forward planning, incentives, and continuity are some of the critical expectations of government by industry."

3. Subsidy

"Direct subsidy by government to an industry as competitive as oil and gas is antithetic to the American enterprise system. Government sponsorship in selected research and development is very much in order. In some activities, this can come — from states as well as federal governments — in the form of reduced or deferred royalties, or for such things as deep-water production, secondary and tertiary recovery efforts, etc. In fundamental research, there can be more direct support, or actual government participation, in such fields as coal gasification and hydrodynamics, etc. Of particular value would be research into nuclear waste disposal, environmental economics, attainable environmental standards, ecological baseline work and scientific manpower utilization."

NEW PUBLICATION OF CCGS TYPE LOGS OF SOUTH TEXAS FIELDS VOLUME 1 – FRIO TREND

Everyone in the oil industry with an interest in the "Frio Trend" of South Texas will find this excellent reference source a practical and useful addition to his professional library. Logs from 128 "type fields" located in the "Frio Trend" from Calhoun to Cameron Counties have been reduced for publication. The publication contains 175 pages and sells for \$15.00 plus tax and handling. Your copy will be available at the GCAGS Convention or order direct from Corpus Christi Geological Society, Att.: Publications, Box 1068, Corpus Christi, Texas 78403.



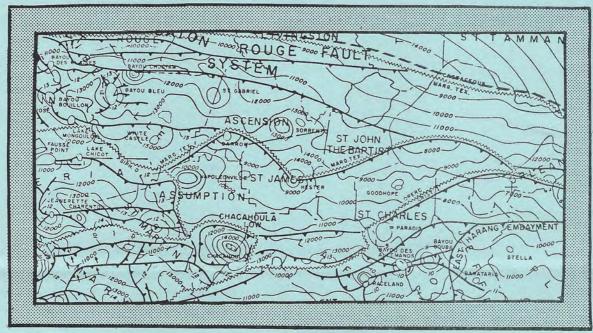
TECTONIC MAP of GULF COAST REGION, U. S.A.



Compiled by the Tectonic Map Committee of G.C.A.G.S.

A joint publication of G.C.A.G.S. and A.A.P.G.

Covers the Gulf Coast Structural Province within the States of Texas, Louisiana, Arkansas, Mississippi, Alabama, Georgia and Florida. Regional structure shown by contours on numerous datum beds whose ages are indicated by bands of color. Also shows the Salt Domes, both Onshore and on the Continental Shelf portion of the Offshore.



Scale: 1:1,000,000 Size: approx. 40"x 76"

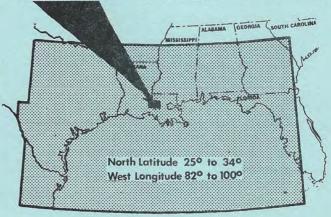
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INDEX MAP SHOWING BOUNDARIES OF AREA COVERED BY TECTONIC MAP

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mississippi ge**ological s**ociety

VOL. XX, NO. 3, NOV., 1972

DIPLOG INTERPRETATION DISCUSSED NOV. 14

DRESSER ATLAS SENIOR LOG ANALYST TO ADDRESS SOCIETY

Mr. Olin R. Holt, a Senior Log Analyst in the Log Analysis Department of Dresser Atlas, Houston, Texas, will be guest speaker for the Mississippi Geological Society's next meeting, to be held at the King's Inn, Maywood Mart, on Tuesday evening, November 14th, in Jackson, Mississippi. The meeting will begin with the usual social hour at 5:30 p.m., and dinner will follow at 6:30 p.m. The subject of his talk will be "Structural Geologic Considerations in Diplog Interpretation."

Mr. Holt is a graduate of Indiana University with a B.S. Degree in Geology (1957). He also attended the University of Minnesota for graduate study.

Mr. Holt has been a geologist for the Indiana Geological Survey, a logging engineer and log analyst for the Birdwell Division of Seismograph Service Corporation, and a geologist and well log analyst with Sinclair Oil Company. He joined PGAC as a sales engineer in 1965 and was named Regional Log Analyst for the California Region in 1967. He has been on his present assignment for two and a half years. His principal responsibilities are the supervision of Diplog computation, Diplog analysis and the training of personnel in Diplog interpretation. He is a member of the Society of Petroleum Well Log Analysts, the American Association of Petroleum Geologists, and the American Institute of Mining and Metallurgical Engineers.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

NOV. 14 Holt Talk - Kings Inn

Social Hour 5:30 p.m. - Dinner 6:30 p.m.

NOV. 13-15 GSA - Annual Meeting, Minneapolis, Minn.

NOV. 26-30 SEG - Annual Meeting, Anaheim, Calif.

FOR RESERVATIONS TO THE NOVEMBER 14th MEETING, CALL T. C. RADER'S OFFICE (948-4128) BY NOON MONDAY, NOV. 13.

STRUCTURAL GEOLOGIC CONSIDERATIONS IN DIPLOG INTERPRETATION

Olin R. Holt

Dresser Atlas
Petroleum Services Division, Dresser Industries, Inc.
Houston, Texas
ABSTRACT

The use of Diplogs in the exploration for oil and gas has increased considerably over the past several years. The data from these logs are now being used for both structural and stratigraphic interpretation of the geologic section through which the log is recorded. Frequently, the recorded data from a Diplog does not agree with the other data available in the area of investigation. The obvious procedure to follow in this situation is (1) to check the logging calibrations to ensure that the survey was accurate and (2) then check the correlations to be certain they are valid. Often the results still appear anomalous after these two steps are completed.

The purpose of this paper is to discuss some of the reasons why perfectly good Diplogs with valid correlations will many times not agree with preconceived ideas of what the local geology should show. By the use of photographs of various geologic structures and features, the paper shows that the sedimentary rocks in the subsurface do not necessarily exhibit the relatively simple geology sometimes thought of as being associated with deposits. hydrocarbon photographs show that sedimentary geology can be quite complex and



OLIN R. HOLT

that the geologic relationships can easily be different from those expected. Changes in formation dips can occur over very small vertical and horizontal distances, as shown in the illustrations presented.

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editorially speaking ENERGY INDUSTRY - THE PLATFORMS AND THE CANDIDATES

DEMOCRATIC PLATFORM

The Democratic Party, in the platform it adopted in Miami, showed little indication that it would press for more development of domestic oil and gas resources. As the Republicans have been doing, the Democrats emphasize long range projects rather than immediate actions to bolster conventional oil and gas development.

The platform plank on energy resources terms as "shocking" the fact the Nixon Administration "refuses" to develop a national energy policy. "The Democratic Party would remedy that glaring oversight," the platform promises.

The broad-brush outline the Democrats give of what they have in mind as an energy policy includes:

- -Promote greater research and development of unconventional energy sources, such as solar power; geothermal power, including fisson and fusion techniques.
 - -Expand research on coal technology to minimize pollution.
- -Re-examine traditional view of national security requirements in energy to reconcile them with the need for long-term abundant supplies of clean energy at "reasonable" cost. (This appears to mean more reliance on imports, at least in the near future.)
 - -Find new techniques to encourage the conservation of energy.

The tax plank would have the biggest, most immediate impact on the petroleum industry. It calls for tax reform. This is the language it uses:

"The tax law is clogged with complicated provisions and special interests; such as percentage oil depletion and other favors for the oil industry, special rates and rules for capital gains, fast depreciation unrelated to useful life, easy-to-abuse expense account deductions and the ineffective minimum tax."

The platform endorses the Mills-Mansfield tax review legislation as a "minimum" step. (This provides for termination of 54 tax provisions, including percentage depletion and expensing of tangibles, over a three year period unless Congress voted specifically to renew each provision.) The platform proposes, further, that the most "unjustified" of the tax loopholes should be closed immediately, without waiting for a review of the 54 provisions. These special targets are not named, but it's a good bet that the framers of the platform had oil-related taxes in mind,

The Democrats suggest that subsidies are better than special tax provisions because they can be budgeted. Conceivably, then, the petroleum industry might wind up some day with a subsidy instead of a tax writeoff.

REPUBLICAN PLATFORM

The Republican platform offers more encouragement to the energy industries than does the one drafted earlier by the Democrats. Each platform has more generalities than specifics, but the GOP position paper does put more emphasis on energy problems and the needs for solving these problems.

Some examples from the Republican platform:

- -"No modern nation can thrive without meeting the energy needs, and our needs are vast and growing."
- -"There is nothing inherently incompatible between an adequate energy supply and a healthy environment. Indeed, vast quantities of energy are needed to do the work necessary to clean up our air and streams. Without sufficient supplies of power we will not be able to attain our goals of reducing unemployment and poverty and enhancing the American standard of living.
- -"Responsible government must consider both the short-term and the long-run aspects of our energy supplies. Avoidance of brownouts and power disruptions call for sound policies and supporting incentives that will encourage the exploration for, and development of our fossil fuels. Such policies will buy us time to develop the sophisticated and complex technologies needed to utilize the exotic energy sources of the future..

-"National security and the importance of a favorable balance of trade and balance of payments dictate that we must not permit our nation to become overly dependent on foreign sources of energy. Since more than half our nation's domestic fossil resources lie under federal lands, priority must be given to the governmental steps necessary to the development of these resources by private industry."

THE CANDIDATES

Note the sharp differences in views on oil-related issues expressed by the two Presidential candidates. It is hard to recall when any two candidates were further apart on oil matters. Part of the reason may be that the over-all energy supply situation has become more important and therefore attracts more attention and comment than in past presidential election years.

President Nixon has expressed the opinion that greater incentives need to be offered the domestic oil and gas industry to spur greater development. He has opposed reduction in percentage depletion. He has continued the oil import control program. Officials in his Administration have pressed for the proposed crude oil pipeline across Alaska and for more offshore lease sales.

By contrast, Sen. George McGovern has advocated a reduction in percentage depletion, an end to the present oil import program and, in general, a tighter governmental rein on the industry. McGovern's views, as reflected in the democratic Party platform, indicate he would favor outright subsidies to any special tax treatment.

Bear in mind that campaign promises usually contain more bombast than specifics and can be changed at will once a candidate is installed in the White House. That is, the realities of office often shape policies.

KEEP IN MIND THAT IF McGOVERN DOESN'T MAKE IT TO THE WHITE HOUSE, COME JANUARY, HE WILL BE IN THE SENATE — AND HE IS NOT LIKELY TO RELENT IN THE ATTACKS ON OUR INDUSTRY.

Charles H. Williams, Jr. Executive Vice-President Mid-Continent Oil & Gas Association - Miss. Ala. Division

PETROLEUM AUXILIARY

The first meeting of the Petroleum Auxiliary, a luncheon, was held at the Colonial Country Club on September 19th. New members were greeted by the President, Mrs. Harold Baker and her newly elected slate of officers.

The members of the combining clubs decided at the time the Petroleum Auxiliary was formed, that a fixed amount of money would be put into the new treasury and any remaining funds would be given to worthwhile organizations.

Mrs. Morton M. Phillips, former President of the Women's Geological Auxiliary reported that donations had been made to the Sonnybrook Children's Home, the Youth Crisis Center and the Willard Bond Old Folks Home. Mrs. John Grower, former treasurer of the Black Gold Club, reports that donations will be made to the Community Nursing Home of Hinds County.

Sixty-four members and guests attending the first meeting were entertained by Miss Rebecca Turner, who has appeared with the Mississippi Opera Association and toured the United States with the Norman Luboff Choir, Miss Turner presented a program of Cole Porter music.

The next stated meeting of the Auxiliary will be a Sherry Party at the Harold Baker home at 2032 Culleywood Road, from 3:00 to 6:00 p.m. on December 12, 1972. The club has no plans for a November meeting.

Isabelle Anderson (Mrs. Earl B.) Petroleum Auxiliary Reporter

"DUFFER'S DELIGHT" HELD SEPT. 29 STEVE DENNIS & JOHN LACY SHARE HONORS

The annual Mississippi Geological Society Golf Tournament was held Friday, September 29th, at the Live Oaks Golf Club, with 65 members participating. Defending champion Verne Culbertson lost by two strokes to Steve Dennis and John Lacy, who matched cards of 77 to determine the winner. Steve won by the narrow margin of 1-up.

The course was in beautiful shape, the weather was fine, and this year's turnout exceeded last year by more than 20.

As always, the success of this event depends upon the support of our many contributors. If you enjoyed the outing, tell them. They are as follows:

American Southwest Corp. Cleveland Tool Co., Inc. Delta Exploration Co. Dresser Atlas Co. Engineering Service Geomap Co. of Dallas Halliburton Services Johnson-Daniel Drilling Co.

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Verne Culbertson, golf chairman, asks that a vote of thanks be given Rex Hewitt and Riley Hagen for assisting with the many details of the tournament.

Prize winners were as follows:

1st low gross	Steve Dennis (77)	
2nd low gross	John Lacy (77)	
1st low net	Riley Hagen (62)	
2nd low net	Chas, McCelland (66)	
low ball foursome	Steve Dennis)	
	John Bullock)(70)	
	Sam Lembcke)	
	Verne Culbertson)	
Longest drive	Jack Gooden	
Closest-to-hole	Alan Jackson	
Least putts	Paul Pipes (27)	
Most birdies	Chas. Barton	
Most 3's	David Brooks (4)	
Most 4's	R. G. Howard (8)	
	(continued next column)	

Most 5's Most 6's Highest score

Bill Brett (9) Carl Grieshaber (10) John Paxton (122)

For those who didn't win a prize, there's always next year!

progress -

Mississippi Completions: September 1972

Exploratory	Oil	Gas	Dry
Eocene	0	0	20
UK	0	0	2
LK	0	1	4
Jurassic	0	0	4
Paleozoic	0	0	0
Development			
Eocene	1	0	5
UK	2	0	1
LK	ñ	0	Ţ
Jurassic	1	0	2
Paleozoic	0	0	3

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meetings -

SOUTHEASTERN GEOLOGICAL SOCIETY HOLDS SIXTEENTH FIELD CONFERENCE

The Southeastern Geological Society plans an unusual and exciting field conference at the Kennedy Space Center on November 9 and 10, 1972. Headquarters will be at the Atlantis Beach Lodge and Convention Center, 900 North Atlantic Avenue, Cocoa Beach,

Florida. The theme for this year's conference will be "Space Age Geology." Presentation of papers by several well known space geologists; NASA presentations covering geological applications of their programs; and the opportunity to see the Apollo 17 training area combine to make this an important conference.

The SGS members extend an invitation to MGS to attend. Registration is now open and may be made through Henry Healy, Secretary, Southeastern Geological Society, P. O. Box 1634, Tallahassee, Florida 32302.

FALL BARBECUE "FINGER LICKIN GOOD"

The annual fall barbecue was held Friday evening September 29th following the "Duffer's Delight" Golf Tournament. A total of 87 members were in attendance. The affair was held at the Firemen's Lodge on the east side of Ross Barnett Reservoir. Parched peanuts and cold beer prefaced one of the finest barbecued meals served anywhere, ever! The barbecue was prepared by Halliburton personnel out of Laurel and Jackson. The menu included barbecued ham steak, ribs, chicken, and sausage. Home made biscuits, beans and potato salad rounded out the meal. Several members needed a little help getting their plates to the table. The only discord heard all evening was from the irate geologist who ate too many peanuts and had no room for barbecue.

To the Halliburton men who labored hard and cooked so good...and to those members who served on committees, aided the cooks, and served the food, we thank you. This "Septemberfest" was the best ever.

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SEG 42nd ANNUAL MEETING ANAHEIM, CALIFORNIA NOVEMBER 26-30

The SEG Pacific Coast Section extends a hearty invitation to MGS members to join them at Anaheim for the 42nd Annual International Meeting. Located just 30 miles southeast of downtown Los Angeles, the Anaheim Convention Center together with the Disneyland Hotel offers an outstanding facilities combination,

A stimulating technical program, outstanding exhibits, a delightful ladies program, and the exciting world of Los Angeles area entertainment await you. There will be special tours of Scripps Institution of Oceanography and a nuclear power station.

theme of this year's convention Exploration-Energy-Environment. Annual Meeting attendees are urged to pre-register to avoid delay at the registration desk in Anaheim. The registration fee is \$30.00 and applications should be submitted to Society of Exploration Geophysicists, Box 3098, Tulsa, Oklahoma 74101.

MID-CONTINENT OIL GROUP MEET AND **ELECT OFFICERS FOR 1973**

Mid-Continent Oil and Gas Association, Mississippi-Alabama Division, concluded their 28th Annual Meeting at the Broadwater Hotel, Biloxi, on September 28, 1972. Several hundred oil men and their wives attended the highly successful meeting. Highlights of the

meeting were addresses by Lt. Governor William F. Winter, Speaker House the Alabama Representatives, G. Sage Lyons, and Carl F. Andre'-former Mississippi Assistant Attorney General.

Mr. Jack L. Coulson was elected as President of the Association for 1973, succeeding James W. Harris of Jackson. Coulson is District Manager, Jacksor. Coulson is District Manager, Exploration and Production, Gulf Oil Company—U.S., and located in Jackson, Mississippi Mr. Lawrence Adams, a well known Natchez Attorney, was elected First Vice President, Billy R. Powell with Deposit Guaranty National Bank was Secretary-Treasurer and Charles H. Williams, Jr. was reelected Executive Vice President.



JACK L. COULSON

Other officers elected for 1973 are: Dean L. Fortenbery and Meade I. Hufford, Natchez; C. Denton Gibbes, Jr., Laurel; Kenneth I. Franks, Hilton L. Ladner, and R. M. Moon, Jackson; and T. K. Jackson, Jr., Victor H. Lott, and Dwain G. Luce, Mobile, Alabama.

The Board of Directors for the Mississippi-Alabama Division were also elected at the Annual Meeting, 18 of whom are members of the Mississippi Geological Society.

personal news -

- H. L. Fulghum has opened an office as an independent consulting geologist at his residence at 257 Valley Vista Drive in Jackson, Mississippi.
- J. B. (Tommy) Tomlinson, owner and operator of Wellcore Co., located in the Laurel Airport Industrial Park, has announced the merger of his company with The Analysts, Inc., Houston, Texas. The Analysts operations originate from Lafayette, Louisiana. The Laurel laboratory will continue under the direction of Tomlinson who will also represent The Analysts in sales and service for the Mississippi and Florida areas.

Lone Star Producing, a wholly owned subsidiary of Lone Star Gas, has promoted three men in its Production Department. David W. Biegler, formerly District Petroleum Engineer, Mississippi District, has

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been made a Staff Petroleum Engineer in the Dallas general offices. Jon P. Stephenson, formerly an engineer in the Dallas district offices, is now a District Petroleum Engineer in the Mississippi District at Jackson, Mississippi.

Frank A. (Skip) Murrell has affiliated with Ashland Exploration in Houston, Texas. He wili supervise the southeastern states. Prior to going with Ashland, he was geologist with Murphy Oil in Jackson, Mississippi.

Maner Joe Sullins, chief geologist for Morris and Burk, Shreveport, died suddenly September 28. Mr. Sullins was 42. Sullins was an immediate past president of the Shreveport Geological Society and had been selected as representative of the organization at the international association of the house of delegates of the American Association of Petroleum Geologists.

Mr. R. T. McAdory, accounting department, Larco Drilling and Exploration Company, will assume the duties of Landman effective September 15.

Carlos Bogard, Landman with Larco Drilling and Exploration Co., resigned, effective September 15. He will remain in Jackson as an independent broker.

Jack Daniel was retained by Larco Drilling and Exploration Co., as a contract representative.

Dr. Charles M. Hoskin is now Acting Department Chairman of the University of Southern Mississippi's Geology Department, Dr. Richard L. Bowen, former Chairman, returned to full-time teaching in Geology at Southern.

Dr. Velon Minshew, has assumed the duties of Acting Department Chairman of the University of Mississippi's Geology Department,

Murphy Walker has recently moved to Jackson and will open offices for Cummings & Walker (Corpus Christi) here in Jackson, Mississippi.

Jim Skeen, Schlumberger Well Services, is being transferred to Schlumberger's New Orleans office.

Special recognition has been given to Natchez independent oil man Gordan W. Gulmon, at the annual membership meeting of the Natchez Trace Parkway Association at Hinds Junior College, on Friday, October 6, 1972. Mr. Gulman secured more members for the Natchez Trace Parkway Association than any other individual, Mr. Gulman is a member of the Mississippi Geological Society,

aapg news -

The House of Delegates is the legislative body of the American Association of Petroleum Geologists and meets in conjunction with the annual convention to be held next in April, 1973, in Anaheim, California, Herbert G. Davis, geological consultant from Oklahoma City, was elected Chairman of the House of Delegates during the AAPG convention in Denver last April, and assumed office July 1. He also represents local societies as a voting member of the Association's Executive Committee.

Each local affiliated geological society elects Delegates to represent their group in the International Association's House of Delegates. The MGS representatives for the 1972-73 year are Keven E. Cahill, and Larry Boland, They were each elected for staggered two year terms. The first alternate is Howard Samsel,

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VOL. XX, NO. 4, DEC, 1972

JURASSIC SANDSTONE SUBJECT FOR DEC. 12 TALK

WILLIS TYRRELL HERE DEC. 12

Dr. Willis Tyrrell, Jr., Senior Staff Geologist with Pan American Petroleum Corp., New Orleans, will speak to the Society on Tuesday, December 12. The meeting will be at the King's Inn in Maywood Mart, Highway 55 North at Northside Drive. A social hour at 5:30 p.m. precedes dinner at 6:30 p.m. The subject of Dr. Tyrrell's talk will be "Denkman Sandstone Member - An Important Jurassic Reservoir In Mississippi, Alabama, And Florida."

Our guest speaker is a native of Pensacola, Florida and was graduated from high school there. He received his BS degree from

Florida State University in 1952 and followed with MS and Ph.D degrees from Yale, the Ph.D being conferred in 1957. His career in petroleum geology began in 1955 with employment with Pan American at Albuquerque, New Mexico. A move to Fort Worth came in 1959 and then in 1964 he became Research Group Supervisor - Sedimentary Petrology Group in Tulsa. His present position in New Orleans was achieved in 1968.



WILLIS TYRRELL

Dr. Tyrrell's latest publication is on West Texas and is "Criteria Useful in Interpreting Environments of Unlike but Time-Equivalent Carbonate Units (Tansill-Capitan-Lamar), Capitan Reef Complex, West Texas and New Mexico," in DEPOSITIONAL ENVIRONMENTS IN CARBONATE ROCKS, A SYMPOSIUM, S.E.P.M. Special Publication No. 14, 1969.

Dr. Tyrrell's important organizational affiliations are GSA, AAPG, SEPM, and the NOGS.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

DEC. 12

Tyrrell Talk — King's Inn Social Hour 5:30 P.M. — Dinner 6:30 P.M.

DEC. 12

Petroleum Auxiliary — Sherry Party The Harold Baker Home

FOR RESERVATIONS TO THE DECEMBER 12 MEETING, CALL T.C. RADER'S OFFICE (948-4128) BY NOON MONDAY DECEMBER 11.

MERRY CHRISTMAS

DENKMAN SANDSTONE MEMBER AN IMPORTANT JURASSIC RESERVOIR IN MISSISSIPPI, ALABAMA, AND FLORIDA

Willis W. Tyrrell, Jr.

ABSTRACT

A clean, generally well sorted, commonly porous, Jurassic sandstone separates marine lower Smackover carbonate mudstone from nonmarine redbeds of the Norphlet formation in portions of southern Mississippi, southwestern Alabama, and northwestern Florida. Various workers have considered this sandstone unit to be marine, nonmarine, or a combination, and have called it basal Smackover, Norphlet, or Denkman. Denkman Sandstone was proposed for this unit by Murray (1961) who designated the Lion No. 2 Denkman, Sec. 22, T17N,R4E, Rankin County, Mississippi as the type section. The Denkman locally exceeds 1000 feet in thickness and is a lithologically distinct, mappable unit, Nevertheless, it is included in the Norphlet formation by the industry and in this paper it is called the Denkman Member of the Norphlet formation.

The Denkman is overlain generally without gradation by non-sandy basal Smackover carbonates but is gradational downward into redbeds, the more characteristic lithology of the Norphlet. Regionally, the Denkman grades updip into conglomeratic redbeds interpreted to be alluvial fan and fluvial deposits. The Denkman sand typically consists of well sorted, fine to medium grained, rounded and commonly frosted quartz grains with some feldspar, chert, and rock fragments. The section is commonly cross-bedded and does not contain fossils or carbonate beds. The Denkman usually has good permeability and intergranular porosity ranges up to 25 percent. Unlike sandstone beds in the Smackover, the Denkman rarely contains carbonate cement. The Denkman Sandstone is reddish in its lower part and may contain some thin shaly beds. Regional distribution of the Denkman suggests a sand source to the north and east, Stratigraphic relationships, lithology, and sedimentary structures suggest a nonmarine fluvial to eolian origin for most of the Denkman Sandstone. Locally, the uppermost part was reworked during Smackover transgression. The Denkman Sandstone Member marks the end of the Werner Anhydrite-Louann Salt-Norphlet deposition cycle.

The Denkman Sandstone commonly has excellent reservoir properties and has been found productive at Pelahatchie, Prairie Branch, Archusa Springs, East Nancy, South State Line, Big Escambia Creek, Flomaton, Little Escambia Creek, Jay and Blackjack Creek Fields. The Denkman Sandstone is and will continue to be an important exploration objective along the southeast part of the Jurassic trend.

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from the editor

Most of you know personally this tall, quiet, easy-going geologist, Marshall Kern is program chairman for the 1972-73 year for the MGS. It's a tough job getting a good speaker with subject matter pertinent to our area. It means working for dates two months in advance in order to accommodate the publicity chairman, get the notice in the local newspapers, acquire abstracts of their talks, autobiographies, pictures, etc., for publication in the News Bulletin, hurry to meet the speaker's plane, take care of reservations, transportation, projection of slides, and finally, the introduction of the speaker the evening of the talk, Seven months seven speakers, and a hundred phone calls. It takes a man of Marshall's caliber to handle the job - and he does it well.

Meeting night - a nice crowd strings in between 5:30 and 6:00 p.m. The social hour is on. Old friendships are rekindled, new names are coupled to new faces. Old areas are highlighted by new shows, logs are swapped, stories told, as the crowd warms up to the evening. Seven o'clockdinner is served; salad, steak, baked potato, rolls, coffee, pie, and good table companions.

A spoon tinkles against a glass and Marshall is seen at the speaker's table tapping for quiet. He introduces this solid citizen who has travelled far (generally at his own expense), and in a soft voice and his own easy, informal manner, he extolls the speaker's education, training, affiliations and honors. The speaker's talk necessitates the use of slides, so while tables are arranged and the screen and projector set up we will take a five minute break

It is at this point that more turns sour than the cream used on the potatoes. With a turnout of sixty or more persons imbibing, socializing and eating, perhaps twenty or thirty at most re-enter the portals after the break to hear the talk. We have primed the pump and when the water begins to flow - we don't drink! I believe that we as professional people have three basic obligations: one, to the speaker, for it certainly is discouraging to him after seeing such a good turnout to finally begin his talk while facing so many empty chairs. Second, we should have an obligation to our program chairman who has spent much time and effort to obtain a quality speaker only to be embarrassed by so many "no shows," Third we certainly have an obligation to ourselves for we had to be intrigued by the subject of the talk to begin with or we never would have come. Who knows....the speaker has a good chance to overcome our prejudices, or spark an idea which would lead to a barrel of new oil.

I realize that many who leave remain in the building huddled together trying to negotiate a deal, many are expanding their business hours and socializing too - really without intent to embarrass anyone nor even thinking that they are missed, Normally this would be so, however, in recent meetings the number returning are less....something should be said so that all are aware that Marshall and the speaker both need our quiet and undivided attention and attendance.

personal news-

Michael L. Wood, geologist with Union Oil of California informs us that he has joined Perry R. Bass, Inc. effective October 31, 1972, as their southeastern geologist. He plans to be in the Jackson area in the near future and hopes to visit with MGS friends. Mike, although living out of state, still retains his MGS membership.

Joseph Franklin, Jr., geologist with the Gulf Oil Co., U.S., is now affiliated with Suburban Propane Gas Corporation, in Lafayette, Louisiana, as exploration geologist for the southeastern area, Joe is our current Treasurer of the MGS. He has always been generous with his time and talents and has served our society in numerous capacities, Good Luck Joe!

Joe Morgan, Skelly Oil, recently transferred from Jackson, Mississippi to Lafayette, Louisiana, has resigned to join Triton Oil in Dallas, Texas.

A. J. Lopez, independent geologist in Natchez, Mississippi, died October 25 of a heart attack in Natchez, Mr. Lopez was a geology graduate of Texas A&M University. Prior to going independent he was associated with Shell Oil in Jackson and Hughes & New Oil in Natchez,

Charles Barton, our MGS President, was an accident victim at the GCAGS Convention in Corpus Cristi, Texas, in October, Charlie was hit on the head with a golf ball while playing in the GCAGS Tournament. He suffered head lacerations, As a result of the incident Charlie was the recipient of the first, permanent, non-traveling Spiro Agnew Award ever presented by the Corpus Cristi Geological Society. The plaque was presented to our bandaged warrior at the evening festivities.

petroleum auxiliary -

The home of Mrs, Benton Vernon was the setting for an informal gathering of the Petroleum Auxiliary members and guests. Mrs. Ron Halfacre served as Mrs, Vernon's Co-Chairman, Other hostesses presiding at the buffet table were Mrs, Riley Hagan Jr., Mrs, Ralph H, Fluker, Mrs. Cleveland H. Gilley, and Mrs. John M. Richart,

Adding to the beauty of the setting was a massive centerpiece of fall flowers in shades of yellow and gold in a silver epergne which adorned the host table.

Guests attending were Mrs. Garland Fontaine and Mrs. Ralph Van Matre.

In addition to the 55 members present, four new members were welcomed. These new members are Mrs. Alex W. Langley, Mrs. Jack L. Sledge, Mrs. John J. Lacy, and Mrs. Robert W. Graham.

Members are invited to the Winter Sherry Party on December 12th from 3:00 P,M, to 6:00 P,M. The party will be held at the Harold Baker home located at 2032 Culleywood Road, Jan Baker and Gladys I orrester will be serving as co-hostesses for the meeting.

Mrs. Earl B. Anderson, Reporter

USGS ANNOUNCES NEW JOURNAL

The Journal of Research of the U.S. Geological Survey will contain papers written by members of the U.S. Geological Survey and their professional colleagues on various subjects in geology, hydrology, topography, and related earth sciences. The new "Journal of Research" will supercede the short papers chapters of the former Geological Survey Research (Annual Review) series of professional papers. The Journal will be published six times a year beginning in January of 1973,

Order blanks are now available and subscription rates are \$8.50 per year domestic (plus \$2.25 additional for foreign mailing) or \$1.50 per

An annual index is provided to aid readers in finding papers in specific areas or subjects.



MEMORIAL E. H. (Rainy) Rainwater

Edward Harriman Rainwater was born in Wayne County, Mississippi, September 20, 1909. He suffered a heart attack in Corpus Christi, Texas on October 12, 1972, where he was to have delivered a paper at the G.C.A.G.S. Convention, Rainy was in the Spann Hospital where he had a fatal attack November 10, 1972.

Rainy attended public schoofs in Waynesboro and later graduated with his major in Geology under Dr. William C, Morse at Mississippi State University. He received an M.S. degree at Northwestern and did further post-graduate work at the Indiana University. While in graduate school he met and became engaged to Margaret (Peggy) Morse, also an advanced student in paleontology. In 1934 he dropped out of graduate work to earn money for future plans while Peggy continued her studies resulting in her Ph.D degree. At the end of one year as instructor in Geology at Mississippi State he was employed by Shell Oil Company for which he worked until retirement. He was then employed as a consultant by Tenneco, Inc.

Rainy travelled extensively throughout the World and was familiar with the broad features of global geology as well as with many of the finer details of geologic history. He was a tireless worker, an avid reader of geologic reports, a prodigious writer, a much-sought-after lecturer, and a patient pedagogue to younger geologists who constantly and appreciatively sought his knowledge and counsel.

Among professional societies Rainy held membership in AAPG, SEPM, GSA, Pal. Soc., Miss. Acad. Scis., and others, including local geological societies. He was especially active in the work of the Southeastern Geological Society, the Mississippi Geological Society and the Houston Geological Society, Rainy was a moving force in the program of type localities descriptions and in many geological field trips. He was recognized by honorary membership in SEPM. He received the Best Paper Award of the Thirteenth Annual Meeting GCAGS for his paper "Environmental Control of Oil and Gas Occurrence in Terrigenous Clastic Rocks." He received second Best Paper Award of the Eighteenth Annual Meeting of GCAGS for his paper "Geological History and Oil and Gas Potential of the Central Gulf Coast." He was author of articles on Mississippi Geology published by Mississippi Geological Survey and he leaves at least one major geological work that remains unpublished.

To attempt to summarize even briefly all of the titles and honors that were achieved by Rainy during his illustrious career would be futile in this brief memorial. He would be the first to credit his successes to his up-bringing in Wayne County where numerous members of his family have long been esteemed citizens. Most particularly, it goes without saying that Peggy, with her training in geology, and a lifetime partner, was the motivation and assistance that enabled Rainy to reach his prodigious accomplishments.

Besides Peggy, Rainy is survived by their two sons, Charles Foster Rainwater, 31, and Norman Morse Rainwater, 28; and by numerous relatives in Wayne County and elsewhere. Services were held at Freeman Funeral Home at 1:30 Monday November 13, 1972 and interment in Waynehaven Cemetary, Highway 45 north of Waynesboro, near the old home of his youth.

-Frederic F. Mellen

ANNUAL GEOLOGICAL SOCIETY OF ALABAMA FIELD TRIP

The 10th Annual Geological Society of Alabama field trip will be held on December 8-9, 1972. The field base for the trip will be the Marine Environmental Sciences Consortium on Dauphin Island. Dauphin Island is offshore approximately 30 miles south of Mobile.

The field trip theme is "Recent Sedimentation Along the Alabama Coast," The trip will consist of two parts; half of the participants will go on a boat excursion of the bay Friday, and half will see geologic features by bus, These two groups will switch on Saturday. The boat trip will be led by Dr. Everett C. Brett, Director of the Marine

(continued next column)

Environmental Sciences Consortium, Dauphin Island, and Dr. George M. Lamb, Chairman, Department of Geology and Geography, University of South Alabama. The land trip will be led by Dr. Joseph F. Riccio, Chief Engineering Geologist, Geological Survey of Alabama and Dr. Wayne Isphorting, Professor of Geology, University of South Alabama, Anyone desiring to make this trip can secure an application form from Charlie Barton.

progress -

MISSISSIPPI COM	IPLETIONS	October 1972	
Exploratory	Oil	Gas	Dry
Eocene	0	0	8
UK	0	Ô	0
LK	0	0	4
Jurassic	0	0	3
Paleozoic	0	3	2
Development			
Eocene	4	0	4
UK	1	0	2
LK	2	0	0
Jurassic	0	0	0
Paleozoic	0	2	0

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presidential notes -

MGS EXECUTIVE COMMITTEE MEETING OCTOBER 24, 1972

IN ATTENDANCE:

Charles A. Barton, President Buddy Twiner, Vice President Riley Hagan, Secretary Joe Franklin, Treasurer

The following items of business were discussed and solutions arrived at as indicated,

The advisability of issuing membership cards was discussed. The committee decided that in lieu of membership cards an an up-to-date membership list would be supplied to each paid up member. Evidence of membership would be by way of this list, Any member who desires a membership card will be furnished one upon request.

The cost of preparing, printing and issuing field map supplements to the current PALEOZOIC - MESOZOIC PRODUCING AREAS OF MISSISSIPPI AND ALABAMA was reviewed by the Treasurer, Joe Franklin. Due to greatly increased costs since this project was first initiated some years ago, it is not producing any significant income for the Society. This led to additional discussion which revealed that we have not been able to keep pace with the overall service needed by the public to have reasonably current information on producing fields in our area of coverage. Consequently, it was decided to issue Volume III of the "REDBOOK". This would include the updating of all old fields with all new data and preparing maps on all fields that have not been done to date, as both of the foregoing relate to Paleozoic - Mesozoic production. The committee felt that it would be advisable to hire someone to act as committee chairman in order to consummate this project. It was felt that since this represented a departure from past procedure this idea should be brought up for general discussion before the membership.

A central information bureau with logs, scout tickets, etc., to be maintained by the Society was also broached. This should be brought before the members for ideas and general discussion.

- Charles A. Barton

aapg news -

AAPG MEMBERS APPOINTED TO SPECIAL POSTS

The following members of the American Association of Petroleum Geologists from our area have been appointed to special posts for the current year by James E. Wilson of Denver, AAPG President, or by Frank Kottlowski of Socorro, N. M., AAPG Editor, Wilson is a Vice President of Shell Oil Company and Kottlowski is Assistant Director, State Bureau of Mines.

Bay St. Louis: Paul H. Jones, Research Committee.

Jackson: Wilbur H, Knight, Field Trip Research and Coprdination Committee; Robert D. Menefee, Committee on Statistics of Drilling,

Natchez: Gordon W. Gulmon, Public Information Committee.

Picayune: Jack N. Pierson, Membership Committee.

State College: Troy J. Laswell, Academic Advisory Committee.

"WHAT IT TAKES TO BE AN EXPERT WITNESS"

Editors Note: The following informative article, reprinted by permission, was taken from the June issue of AIPG Bulletin.

When our genial editor's request for a guest editorial reached me, my first inclination was the obvious one of telling about the beginning of AIPG. But my mind was changed by a field trip to Kettleman North Dome oil field, conducted by the Pacific Section of AAPG and its affiliates. Thirty-five years ago, I served as an expert witness on a very important lawsuit pertaining to that field. My client was the Board of Directors of Kettleman North Dome Association, the defendant in the

A handful of old-timers on the field trip remembered the lawsuit, Two, in particular, urged me to write, for publication, what it takes to be an expert witness. In recalling our editor's request, I decided this was a suitable subject for an editorial in a publication devoted to professionalism.

From the cases on which I have served, some significant points were impressed upon my mind, I hope they will prove useful to others, particularly beginners. Practically everything I am going to say is well known but may be forgotten under stress.

- 1. It goes without saying that one of the fundamentals is to learn the case so thoroughly that, when you are on the stand, with no one to fall back on, you will have control of the situation. This requires not only knowing the points in your favor but those that favor your opponents as well.
- 2. Don't quibble. Hammer home your strong points without cluttering the case with trivia.
- 3. "One picture is worth a thousand words." Illustrate your points as clearly as possible with maps, charts, graphs, and other appropriate exhibits, so the judge or jury will understand them. Once more, don't cloud the picture with inconsequential things.

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- 4. "Honesty is the best policy." Some witnesses try to deceive the court. If their falsehood becomes apparent, their effectiveness is destroyed. Some basically honest witnesses become so obsessed with the desire to win that they bend their consciences and are evasive if not untruthful. Don't try to defend an indefensible position. (An honest witness is sometimes dismayed to find that another witness is not honest, However, most witnesses are honest and helpful.)
- 5. Nearly every case has something favorable to each side. If the weight of evidence is against your side, advise your clients to save expense and frustration by making a settlement. If you have a strong case, readily concede the points that favor your opponent, if you are asked. This will make a strong impression on the judge or jury, and they will believe the points you make in favor of your side. It is very important that you appear honest as well as be honest.
- 6. If you are naturally fluent and have the ability to use the right word at the right time, you have a great deal going for you. Some witnesses are honest but unable to express their thoughts effectively. Some witnesses talk too much and, thereby, open up points for their opponents to attack. Others try to look important by using high-flown language. A witness is constantly being evaluated by those who observe him, particularly the judge. A forthright presentation is the most effective.
- 7. Lawyers come in all varieties. In nearly every case, an expert witness knows more about his subject than the examining lawyer, and need not fear his questioning. It is only when the witness himself is inadequately prepared that he needs to worry. Some lawyers come into court miserably unprepared. I remember one case in which a lawyer was so busy with politics that he didn't know what he was talking about in court, and kept using inappropriate words.
- 8. Some clients withhold vital information from their experts and even their lawyers. In one flagrant case, a pair of sisters were being sued by a man they hired to act as their agent in dealing with a lessee. He was paid a percentage of the income. After several years they tired of this and stopped paying. Naturally he sued for what they owed him. My recollection is that it was \$35,000. The dominant sister pretended she was just a poor, dumb woman, who didn't understand the oil business. The plaintiff countered by producing a sheaf of letters she had written him, urging him to keep the heat on the company to drill more wells. Her lawyer was unaware of the existence of these letters. The plaintiff
- 9. Judges often give little intimation of what they think of the testim ony during the trial, sometimes to the dismay of the litigants. The witness may think he is not getting his point across when he actually is.

10. Some companies expect their experts to make a satisfactory presentation, while barring access to vital information. This confronts the expert with an intolerable situation from which he had better withdraw, when it becomes apparent to him.

11. Some clients try to dictate an expert's testimony, I can recall three cases where I was not permitted to testify when I insisted upon presenting my own views, Independent conclusions are vital to expert opinions. A concomitant requirement is that the expert must have an open mind.

12. Do not underestimate your opponent. Assume he is, at least, as smart as you are.

Much more could be said but this is not the place for going into more detail.

- Martin Van Couvering

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VOL. XX, NO. 5, JAN., 1973

PLATE TECTONICS — GULF COAST BASIN TALK PLANNED FOR JANUARY 17 MEETING

ROBERT BEALL TO ADDRESS SOCIETY

The January meeting of the Mississippi Geological Society will be held Wednesday, January 17, at the King's Inn in Maywood Mart. Mr. Robert Beall, Geological Consultant, Fayetteville, Arksansas, will present a paper entitled "Plate Tectonics And The Origin Of The Gulf Coast Basin." The usual social hour will be at 5:30 p.m. and dinner will be served at 6:30 p.m.

Mr. Beall received a Bachelor of Science degree in Geology from the University of Nebraska in 1941. After graduation he was employed by the Standard Oil Company of New Jersey and worked for Jersey affiliates until his early retirement in 1971. He first worked as a field geologist in the Carribean Islands, Central America and North Africa, In he became District Geologist for the Standard Vacuum Oil Company in Sumatra and in 1951 was promoted to Acting Chief Geologist. In 1953



ROBERT BEALL

he returned to the United States and was a District Geologist for the Carter Oil Company in Shreveport, Louisiana. From 1961 to 1963 he served as Humbles Area Geologist in Jackson, Mississippi and in 1963 and 1964 was District Exploration Manager for Humble in Hattiesburg, Mississippi. He then served as a Staff Geologist and an Exploration Specialist in Humbles New Orleans office. He is now a Consulting Geologist in Fayetteville, Arkansas.

Every geological publication for the past several years has devoted many pages to the currently popular concept of sea floor spreading or "Global Tectonics". It will be refreshing and timely to have these ideas related to structural features within the Gulf Coast Basin, Mr. Beall's talk promises to be an interesting one and all members and guests are encouraged to attend.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

JAN. 15 JGS Stone Talk - Kings Inn

Social Hour 5:30 P.M. - Dinner 6:30 P.M.

JAN. 16 Petroleum Auxiliary - Bridge Luncheon

Primos Northgate

JAN. 17 Beall Talk - Kings Inn

Social Hour 5:30 P.M. - Dinner 6:30 P.M.

FOR RESERVATIONS TO THE JANUARY 17 MEETING, CALL T. C. RADER'S OFFICE (948-4128) BY NOON TUESDAY, JANUARY 16.

PLATE TECTONICS
AND THE ORIGIN OF THE GULF COAST BASIN

ROBERT BEALL
ABSTRACT

The writer believes that by using a modified version of plate tectonics many questions concerning structure in the Gulf Coast Basin can be logically answered. Many geologists working in the Appalachian Mountains have found evidence of continued compressional forces from the southeast during a large part of the Paleozoic Era, Compression was replaced by tension after the Allegheny Orogeny.

In the eastern and southeastern United States the major American plate is broken into a number of small "miniplates." The Gulf Basin miniplate lies between the Texas megashear or a closely related fault, and another megashear which extends from under the eastern Gulf of Mexico to near the east end of the Ouachita Mountains in the vicinity of Little Rock. A stable miniplate, of which the Llano Uplift is a part, served as a buttress against the northwestward movement of the Gulf Basin plate.

The Gulf Basin plate is believed to have moved a minimum of 400 miles to the northwest during the compression cycle. Rebound followed the cessation of compression and a Mesozoic basin was formed over much of the Gulf Basin plate. Structures in the Postpaleozoic sediments resulted from rebound associated tension acting on zones of strengh and weakness in the Premesozoic rocks.



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STATE LEADERS URGING OIL, GAS DEVELOPMENT

Three high officials of Alabama and Mississippi have called for increasing development of the natural resources of the states to help ease a growing energy crisis in the nation.

Both Mississippi Lt. Governor William Winter and Alabama House Speaker G. Sage Lyons called for increasing cooperation between government and the petroleum industry.

Alabama Finance Director Taylor Hardin said officials of that state, including Governor George C. Wallace, were committed to total development of natural resources, including oil and gas reserves.

The men made their comments in speeches to the 28th annual meeting of the Alabama Mississippi Division of the Mid-Continent Oil and Gas Association.

Some 300 members of the association, made up of petroleum producers and explorers, attended the gathering.

Hardin said there has been too long a delay in adopting rules to govern petroleum activity in Alabama offshore waters, "and I believe we'll soon see some relief."

He referred to an 18-month time lapse in drafting the proposed rules and the beginning of Alabama Oil and Gas Board hearings on whether to approve them.

Mobil Oil Corp. has applied for a permit to drill a 21,500-foot wildcat well at the mouth of Mobile Bay, but the permit has been held up pending adoptions of the tough regulations.

"We recognize the problems ecologically and economically," Hardin said, "but we recognize that they are not insoluble."

Lyons, a Mobile attorney, said in his talk:

"I have found no informed source that does not recognize present and projected increasing shortages of energy in the region and throughout our nation. It is axiomatic that energy industries are absolutely essential to the continued growth of our American system of free enterprise and the integrity of our national security."

"One must only conclude that the energy problems of this nation are going to get worse before they get better. The problems causing our shortages of energy are many – compounded by there being too many critics, mostly in government, who condemn the petroleum industry, but offer no sensible or workable solution."

Lyons also referred to the delay on the Alabama offshore prospects, saying, "Until Alabama can supply our own energy requirements, we cannot and should not through emotional and unreasonable restrictions close off any area of our state which might yield vital energy sources, including our water bottoms."

"We must begin with the premise that the preservation of our natural environment and ecological characteristics and development of our productive resources are compatible." "To suggest otherwise is to suggest that this country should relegate itself to stagnation and revert to the primitive way of life."

Winter said the cry of energy crisis no longer was a "cry of 'wolf.' It is real and represents a crunch for all segments of society."

He called for a partnership of understanding between the petroleum industry and government and the development of the potential oil and gas reserves off Alabama and Mississippi in the Gulf.

"There is an increasing attitude of understanding in government," Winter said. "We regard the oil and gas industry not as an unlimited source of tax revenue, but as one of great production resources necessary to the survival of all of us."

"I pledge my best efforts to work on a partnership basis. It is a responsibility that we cannot and will not evade."

At an earlier business meeting, former Mississippi Assistant Attorney General Carl Andre said, "Environmental emotionalism and unwarranted fear delay progress."

"I am not condemning legitimate concern. Pollution is real, dangerous and costly. Rightly or wrongly, justly or unjustly, the petroleum industry has been a major source of concern for environmentalists."

"But it is a new ball game. The teeth in environmental laws are beginning to bite."

Andre said he disagreed with some views that application of environmental laws would lead to changes in traditional processes, and he predicted more controls, regulation and litigation in environmental matters.

"The public is concerned, and the law is responsive to public demand," he said, "There must be a balance."

"I am confident we can reach a balance in ecology and law to protect the environment."

personal news-

Ken Turner, Schlumberger, has moved from Houston, Texas to Jackson, Mississippi as Sales Engineer. Ken replaces Jim Skeen, recently transferred to Belle Chasse, Louisiana. Ken has found a new home in the North Jackson area and is now in the process of moving.

Bob Beu stopped over in Jackson in November and attended the November meeting of the MGS. The NOGS have Bob busy, he is the editor of "Beu's Beut's" an article in the N. O. Bulletin.

Bill McGowen, geologist with Pennzoil has accepted a position with the Daubert Oil & Gas Company, located at 915 Houston National Bank Building, 1200 Travis Street, Houston, Texas.

Larry Walters has graciously accepted Charlie Barton's appointment as Treasurer of the MGS for the remainder of the year. Joe Franklin, our elected Treasurer recently accepted a position with Suburban Gas in Lafayette, Louisiana. Larry was our elected Treasurer for the 1971-72 term and did his usual excellent job.

progress -

Mississippi Completions	Novemb	er 1972	
Exploratory	Oil	Gas	Dry
Eocene	0	0	15
UK	0	0	1
LK	0	0	0
Jurassic	0	0	4
Paleozoic	0	0	0
Development			
Eocene	1	0	1
UK	0	0	2
LK	0	0	0
Jurassic	1	0	1
Paleozoic	0	0	0

New Field Discoveries - None

MEMORIAL A. J. LOPEZ

A. J. Lopez, 119 Mansfield Drive, Natchez, Mississippi, passed away at the local country club while playing golf with his friends October 25, 1972, of an apparent heart attack. He was born in Galveston, Texas, July 30, 1924, son of the late John and Mary Lopez.

A. J. is survived by his wife Trini and four children: Tony, who is working with Schlumberger Well Services, and Johnny, Jimmy and Trini, who attend the Cathedral School in Natchez.

A. J. began his professional career in 1951 in Jackson, Mississippi working for Shell Oil Company, Twelve years later he left Shell to work for a drilling and exploration company located in Natchez. Three years later he established himself as a consulting geologist working individually. One year later he became associated with another consulting geologist and became a partner in the firm of Ferguson and Lopez, specializing primarily in the Wilcox trend of Southwest Mississippi and Northeast Louisiana.

He was educated in the public schools of Galveston, later attending and graduating from Texas A & M with a Bachelor of Science Degree in Geology. He was a member of the American Association of Petroleum Geologists, and the Mississippi Geological Society. He was a member of Saint Mary's Cathedral, the Bishop R. O. Gerow Council, a Fourth Degree Knight of Columbus, the Kiwanis Club and the Elks Club. He served in the infantry during World War II.

Being unselfishly civic minded, he concentrated most of his civic work among the Boy Scouts of America, where his devotion to that cause will be remembered for many years to come.

A. J. was a devoted family man and the type person that had no enemies. He was truly among the limited number of "oil finders" and will be remembered most affectionately by those who knew him.

- A. J. Ferguson

aapg news -

NEW AAPG CANDIDATES ANNOUNCED

Candidates for top offices in the American Association of Petroleum Geologists were announced during the GCAGS meeting in Corpus Cristi, Texas in October,

AAPG President James E. Wilson of Denver said election will be by mail ballot between April 1 and May 15, 1973. Successful candidates will take office July 1, 1973.

For the top office of President-elect, two prominent geologists with major oil companies have been nominated: Merrill W. Haas of Humble Oil & Refining Co., Houston, and George R. Schoonmaker of Marathon Oil Co., Findlay, Ohio.

The successful candidate will serve as President-elect during 1973-74 and will automatically become President of the Association July 1, 1974. The current President-elect, who becomes President next July, is Daniel A. Busch, Tulsa geological consultant.

Candidates for the office of Vice President, 1973-74 are August Goldstein, Jr., General Manager of Lubell Oil Co., Tulsa, and J. D. Tompkins, consulting geologist, engineer and independent producer, Abilene, Texas.

Candidates for a two-year term as Secretary 1973-75 are Bernold M. (Bruno) Hanson, president of Hanson Exploration Co., Inc., Midland, Texas, and John F. Partridge, Jr., consulting geologist-geophysicist, Casper, Wyoming.

Frank E. Kottlowski, Assistant Director and Senior Geologist of the New Mexico State Bureau of Mines, Socorro, N. M., is unopposed for re-election to a two-year term as Editor of the AAPG Bulletin.

The office of Treasurer of the Association is held by Fred A. Dix, Jr., of Mobil Oil Co., Houston, who is serving his first year of a two-year term.

NEW AAPG HIGHWAY MAPS AVAILABLE

Two new geological highway maps describing surface features of the landscape have been published by the American Association of Petroleum Geologists, one covering the Northern Rocky Mountain region and the other covering the Mid-Atlantic region

The multi-color maps present the general geology of the region in an interesting manner, sufficiently generalized to make it clearly understandable to the general public but detailed enough to be useful to the science student and the professional geologist.

Each map is a combination of a geological map, showing the location and surface distribution of rocks of various geological ages, and a base map that locates the highways, rivers, counties, cities, and towns. A different color is used for rocks of each geological age exposed on the surface.

Much geological information is also given with the maps, including cross sections showing elevation of mountains and the subsurface depths of principal formations. Smaller maps on the back give both the physiography, such as mountains and other landforms, and tectonic data, such as uplifts and fault zones.

The Northern Rockies map covers the states of Idaho, Montana and Wyoming. The Mid-Atlantic map covers Kentucky, West Virginia, Maryland, Tennessee, Virginia, Delaware, North Carolina and South Carolina.

The above maps are part of a series being prepared by the AAPG. Other maps available in the series cover the Mid-Continent region, the Southern Rockies and the Pacific Southwest. Six additional regional maps are now in preparation so that the series eventually will cover the entire United States.

The maps may be obtained from the American Association of Petroleum Geologists, P. O. Box 979, Tulsa, Oklahoma 74101. In quantities of 1 to 14 the price of each is \$1.50 folded and \$1.75 rolled in a tube, plus \$.50 postage and handling.

FOUR CORNERS GEOLOGICAL SOCIETY 1973 FIELD TRIP

The Four Corners Geological Society will again sponsor a river field conference. This year's trip will be conducted on the San Juan River where the river carves deep canyons across the Monument upwarp of southeastern Utah. These canyons afford spectacular exposures of Middle Pennsylvanian through Jurassic strata and the well known magnificant anticlinal folds of this portion of the Colorado Plateau province. Exposed algal bank reservoirs of the Aneth type and numerous bioherms will be featured.

This year's field conference can be taken in three different ways. The first section is from Bluff to Mexican Hat, Utah, a two-day trip that will start on June 4, 1973, for a cost of \$40.00. The second section will begin at Mexican Hat, Utah and proceed through the Goosenecks for another three days, leaving on June 6, 1973 and arriving at Clay Hills Crossing on June 9, 1973. The cost of this three-day trip will be \$60.00. And of course, the entire five-day trip may be combined for \$100.00. The cost includes all food while on the river and a river log explaining the geology along the way. You bring only a sleeping bag, a change of clothing, and of course, plenty of film.

The trip is by necessity limited to forty people on a first come, first served basis. So make your reservations early by sending a \$25.00 deposit. If there is sufficient interest a second trip may be scheduled starting June 11.

For reservations or further information contact Don Baars, Field Conference Chairman, Four Corners Geological Society, P. O. Box 1501, Durango, Colorado, 81301.

Meet you on the river!

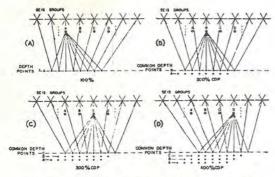


STACK DATA - WHAT IS IT?

Many explorationists, excluding geophysicists, are exposed these days to the term 'Stack Data'. Ever wonder just what it meant? This short article may help.

Numerous articles about the technique of seismic stacking have been published in geophysical journals. The terminology itself is somewhat misleading in that many names have been applied to essentially the same method of data gathering, Multiple coverage may be called Common Depth Point (CDP), Common Reflector Point (CRP), horizontal stack, rollalong, multi-fold (6 fold or 600%, 12 fold or 1200%, etc.)

The common depth point method is the field technique whereby subsurface coverage is obtained in order that a common depth point stack may be made from the seismic data recorded. In order to obtain this multiple coverage, different arrays of geophones and shot point locations are selected to yield reflections from common depth points, however, each recording is taken from different offset distances (shot to first detector distances). These magnetic tape recordings are then corrected for statics (corrections for elevations and weathering) and normal moveout (correction for variation in reflection arrival times due to change in shotpoint to geophone distance). The records having common depth points are then composited, whereby the primary reflections which are in-phase (they arrive at the same time) have been preserved and their signals enhanced, while random noise and certain organized noises such as refractions, surface waves, diffractions and multiple reflections, have been attenuated by out-of-phase cancellation.



Roll-along shooting using eight traces for four-fold stack. Schematic shows ray paths and common reflection points for: (a) Shot 1-A, (b) Shot 1-B, (c) Shot 1-C and 1D.

The horizontal stack then, simply stated, retains the signal and discards the unwanted noise. The more subsurface coverage obtained, generally the stronger the signal response. The CDP method is analogous to sifting a quantity of unconsolidated, poorly sorted sand through a Tyler 10 mesh Sieve you will retain all the very coarse grained sand and discard or pass through all of the unwanted finer clastics. The greater the amount of material screened, the greater the yield of coarse grained sand.

We note then from the preceding paragraph that multiple subsurface coverage, or horizontal stack sections, are employed as a signal enhancing and noise attenuating technique. A development so significant that it rivals the advent of the seismic reflection method itself.

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The term "vertical stack" applies to either a stack of records obtained by placing shots taken at the same location, at different depths in the shot hole and mixing or summing these data into a composite record, or mixing together shots made in nearly the same surface location. The latter is used primarily with non-dynamite energy sources such as air guns, weight drops, vibrators, etc. These records are normally composited before normal moveout corrections are applied.

-W. L. Harper

DALE STONE SPEAKS TO JGS JAN. 15

The January meeting of the Jackson Geophysical Society will be held Monday evening January 15, at the King's Inn in Maywood Mart, I-55 North, Mr. Dale G. Stone, Seismograph Service Corporation, Tulsa, Oklahoma, will present a paper entitled "Frequency Domain Techniques."

Mr. Stone received a B.S. degree from Northeastern State Teachers

College, Tahlequah, Oklahoma in 1951 and an M. Ed. degree in mathematics from Northeastern State College in 1959. Additional graduate studies in mathematics were taken at Southeastern State College and Oklahoma State University in 1960 and 1961. More recently he has completed the Packard Bell programming course, the Scientific Data Systems Course, and both Raytheon and the IBM Computer Schools.



DALE G. STONE

Mr. Stone started his professional career as a math and science teacher at Bartlesville

College High School in Bartlesville, Oklahoma in 1962. In 1963 he joined Jersey Production Research Company in Tulsa, Oklahoma. In 1965 he accepted a position with Seiscor Division, Seismograph Service Corporation, as a Research Engineer. In 1967 he was promoted to his present position as Research Section Manager.

Mr. Stone's talk will cover "Frequency Domain Techniques", and he will discuss such topics as optimal resampling, static corrections to any precision, two dimensional filters, data transmission with Fourier techniques, and super-resolution of seismic data with band-unlimited data resolution. Mr. Stone points out that the application of these techniques can result in stratigraphic analysis not possible with time domain algorithms.

The Jackson Geophysical Society extends an invitation to all interested MGS members. The social hour will begin at 5:30 p,m, and dinner will be served at 6:30 p,m.

* * * * * * * * * * * * * * *

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mississippi ge**ologi**cal society

VOL. XX, NO. 6, FEB., 1973

SMACKOVER STRAT TRAPS TOPIC FOR FEB. 13

HGS PRESIDENT TO PRESENT PAPER

The next meeting of the Mississippi Geological Society will be held Tuesday, February 13, at the King's Inn in Maywood Mart. Guest speaker for the evening will be Mr. John J. Amoruso, independent geologist from Houston, Texas. Mr. Amoruso will present a paper "Smackover Stratigraphic Traps — New Production in 'Old' Areas." A social hour beginning at 5:30 p.m. will preface the dinner and talk.

John J. Amoruso received a B.S. Degree in Geology from Tufts

College, Medford, Massachusetts, in 1952. After graduation he entered the U.S. Navy for three years before entering graduate school. He received an M.S. Degree in Geology from the University of Michigan, Ann Arbor, Michigan in 1957.

He joined Pan American Petroleum Corporation (now Amoco Production Co.) in 1957, after having worked for its predecessor, Stanolind, in Oklahoma during the summer of 1956. During the period 1957 -



JOHN J. AMORUSO

1969, he has held widely varied petroleum exploration assignments in the Four Corners Area, Uinta Basin, West Texas, and the East Texas-North Louisiana Area. He opened offices in Houston as an independent in 1969.

Mr. Amoruso is Certified as a Petroleum Geologist by the American Association of Petroleum Geologists and is Certified as a Professional Geologist by the American Institute of Petroleum Geologists. He is also a member of the Society of Independent Earth Scientists, the Houston Geological Society, and the East Texas Geological Society. He is currently President of the Houston Geological Society and has served that society in the past as First and Second Vice-President and Editor.

His paper "Possible Future Petroleum Provinces of the Gulf Coast-Jurassic" presented at the 1970 GCAGS Convention won First Place in the Best Paper Awards and the A.I. Levorsen Memorial Award. The paper, "Smackover Stratigraphic Traps — New Production in 'Old' Areas" delivered at the 1972 GCAGS Convention won Third Place in the Best Paper Awards. All MGS members and guests, and especially those interested in the Smackover play are encouraged to attend and hear this talk.

SMACKOVER STRATIGRAPHIC TRAPS NEW PRODUCTION IN "OLD" AREAS

ABSTRACT

John J. Amoruso

Until recently, most of the Smackover exploration has been essentially a search for closed structures. This initial phase of exploration has been quite successful, and many excellent fields have been found throughout the fairway. However, in mature areas, such as southern Arkansas and northern Louisiana, this quest for structure has resulted in the drilling of most of the easily definable closures, and the future promised only prospects of ever diminishing size and economic potential.

With the increasing well control, however, stratigraphy has progressively been recognized as an important factor in the entrapment of Smackover hydrocarbons even in fields generally considered to be essentially structural accumulations. An awareness of the importance of stratigraphic factors in entrapment has been dramatically focussed by the discovery of Walker Creek and Welcome Fields, Lafayette and Columbia Counties, Arkansas. Both these fields are due to stratigraphic entrapment provided by the updip termination of porous Smackover beds across gentle structural noses. Their discovery signals the beginning of the second phase of Smackover exploration - the search for combination structural - stratigraphic and wholly stratigraphic traps - and the rebirth of exploration for large reserves in a mature segment of the Smackover Fairway.

The regionally regressive depositional character of the Smackover in this area afforded an excellent setting for the formation of many stratigraphic traps. Porous carbonate zones, successively higher within the Smackover section, were deposited southward across the shelf. The updip terminus of each zone abuts an impermeable seal to form an ideal straigraphic trap. The sinuous nature of the updip terminus frequently, but not necessarily, in conjunction with low relief structural noses or closures entraps the hydrocarbon accumulation laterally. In addition, many variations in the regional situation, due to the local depositional patterns of individual zones, tend to complicate the simple stratigraphic trap.

Lithologically, the most characteristic reservoir rock type is an oolitic-pelletal limestone with intergranular porosity. Porosity up to 30% is not unusual, but average porosity ranges from 10-20%. Various degrees of porosity destruction have resulted from the infilling of the primary porosity with sparry calcity cement. Where wave action was not sufficient to winnow out lime muds, no primary porosity was developed.

The diverse nature of the stratigraphic traps opens up unlimited exploration opportunity on acreage once considered worthless because it was not located on closed structures. The stratigraphic phase of exploration now promises to be as profitable as was the structural phase in this "old producing area."

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Statistics

from the editor

Jim McMullen

There are many geologists among the membership, who have worked extensively along the Gulf Coast, Applachian Basin, Central Interior Basin, and the Michigan Basin, and have by necessity visited the Geological Survey's for the various states within those basin areas. Generally, the information you required was readily accessible from well managed files. Samples were available as well as the facilities to run them, and personnel, laboratory facilities, library, files and samples were housed in presentable quarters.

We here in Mississippi are proud of the caliber of personnel at the State Geological Survey. There are however, those who feel that the present physical plant, housing the survey, is inadequate. During the off season, the Capital Improvements Committee of the Mississippi Legislature took a hard look at the office requirements for all state agencies. Mr. William Moore, Mississippi State Geologist, appeared before the group and expressed a need for a new building to house the offices, provide laboratory facilities, and a geologic library. The present building would then be retained for sample storage. At the completion of the study the committee recognized the need for new quarters for the Geological Survey, however, they felt that other state agencies held higher priority and recommended that the State Geological Survey's needs be put in the planning stage.

Charles Barton, Mississippi Geological Society President, and other interested society members, feel that we should, as a professional society covering all facets of geological activity within the state, and more especially the oil and gas industry, support Mr. Moore in his request for a new building for the State Geological Survey. This topic will be brought before the membership at the January 17th meeting for discussion. Should the members present be in accord with the proposed building recommendations, it is the intent of the Mississippi Geological Society to prepare a resolution in support of the proposal, and deliver copies to the Capital Improvements Committee of the Mississippi Legislature, the Commission of Budget and Accounting, and to Governor William L. Waller.

I suggest that those members who cannot attend the January 17 meeting, who do not agree with the above proposal to support a new building, express their disagreement by sending a post card to the editor, Mississippi Geological Society, P. O. Box 422, Jackson, Mississippi 39205. All cards should be received no later than the 12th of February so that the will of the majority may be relayed to the members at the February 15th meeting.

PETROLEUM AUXILIARY

The members of the Petroleum Auxiliary and their guests were entertained with a lovely tea by Mrs. Harold Baker in her home on Culley Road. Holiday decor, the splendor and festivity of the Christmas season, was the setting for a most enjoyable afternoon.

Mrs. Baker, wearing a full length afternoon dress, received her guests in the foyer. Garlands of greenery entwined with red beads extended up and down the stairway and around the entrance of the foyer. An abundant sunburst arrangement of light green spider mums, pompom mums, holly and Christmas pine were on the Bombe chest, giving charm and glow as you entered.

The formal living room was enhanced by the Tranditional Christmas tree decorated with the childrens favorite ginger bread men, wooden soldiers, snow men, and many multi-colored balls and lights. On the register was a large red candle encircled with camellias shaded from red to variegated pink.

An elegant cloth of net and sequins covered the dining table. A silver, seven branch candelabra holding moss green tapers and an arrangement of American Beauty roses centered the beautifully appointed tea table.

Visiting and conversation followed in the den. Over the fireplace hung a Della Robbin wreath. On either side of the mantle were Hurricane lamps with yellow candles embedded in garlands of greenery. The brass and glass coffee table held an array of large candles in shades of yellow, orange, and olive green, set in a loose base of native greens.

Three wise men, dressed in elaborate velvet robes centered the music area for all to admire.

Mrs. Marcial Forester was co-chairman and her committee were Mrs. Charles Mace, Mrs. E. S. Graham III, Mrs. Charles E. Harper III, Mrs. Dick Mason III, Mrs. Ed Voisinet, Mrs. Billie Powell, Mrs. Ron Rise, who assisted throughout the afternoon. One hundred and twenty eight guests were received between the hours of three and six p.m.

Report by Dortha Coleman

The next meeting of the Auxiliary will be held at the Fowler Buick Lodge, February 20, at 11:30 A.M. This meeting is one of the more popular among the members. A covered dish luncheon will be served, each member bringing her own dish. The recipe for each dish will be submitted as material for a membership cookbook. What a unique way to get a cookbook. Taste it, and if you like it, go home and ignite the taste buds of a hungry husband!

Members will also bring in their "Arts and Crafts" for exhibit at the February 20th meeting. Joyce Bowman is chairman for the event and will be aided by Elaine Bradley, Boots Monsour, Ruth Kendrick and Marian Ryan who will serve as hostesses.

GCAGS

The 1972 TRANSACTIONS containing both the GCAGS and the SEPM papers, is available from Cambe Geological Services, Inc., 1809 Louisiana Street, Houston, Texas, 77002. This informative volume, edited by William A. Atlee, contains 49 papers and has 346 pages.

The GCAGS Executive Committee elected the following officers for the 1972-73 year.

President - Fred M. Schall, Texas Gas Exploration, Houston, Tex.

Vice President - Scott Lysinger, Felmont Oil Corp. Lafayette, La.

Treasurer - Pete Cawthon, First City National Bank, Houston, Tex.

Secretary - Ted Hole, Hamilton Bros. Oil Co., Houston, Texas

Seventeen members of the Mississippi Geological Society were in attendance at the 1972 Annual Meeting. The 1973 Annual Meeting will be held in Houston, Texas, the 1974 event will be held in Lafayette, Louisiana. James W. Twiner, delegate of Mississippi Geological Society, offered to host the GCAGS Convention in 1975. This offer was accepted unanimously.

personal news-

Kenneth D. Backsen, geophysicist with the Gulf Oil U.S., has been transferred from the Gulf Research & Development Company in Harmarville, Pennsylvania to the Jackson District Office effective January 1, 1973. Ken and his wife Gloria now reside at 5155 Mercury Drive.

Guardian Oil has moved from the Milner Building to 1610 Capitol Towers in downtown Jackson,

The Mississippi Geological Society welcomes the following as new members:

John Silvernail - Universal Resources, New Orleans, La.

Larry Tucker - Core Lab., New Orleans, La.

Jim Sullivan - Pennzoil, Houston, Texas.

John Skinner - Marathon Oil Co., Shreveport, La.

Donald Andrews - Florida Gas, New Orleans, La.

Michael Conner - Seismograph Service Corp., Jackson, Miss.

John McCarty - Mississippi Geological Survey, Jackson, Miss.

John E. McCarty, graduate of University of Southern Mississippi, holding a Master of Science degree from that University, and Sarah C. Childress, holding a B.S. degree from Southern, are new employees of the Mississippi Geological Survey.

Bill Johnson, geologist with Cities Service International, has resigned to accept a position as Senior Geologist with Lone Star here in Jackson. Bill was a Chevron geologist here in Jackson and left in 1967 to join Cities Service in Houston, Texas, In 1970 he transferred to Cities Service International in New York. He spent a year in London as Chief Geologist for Cities Service International, returning to the New York office in 1972. A native Mississippian, he has returned 'home', Bill, his wife Janyce and their three boys now live 'on the farm' in Tinsley.

Paul Byrne, Ir., Natchez operator, has successfully drilled a directionally drilled hole beneath the Mississippi River 2 3/8 miles west of Pine Ridge. The No. 1 D. Junkin, located in Acc. 8N-3W Irreg., Adams County, Mississippi, was deviated 1400 feet northwest of the surface location and is believed to be the first such wildcat to be productive from the Wilcox.

progress -

Mississippi Completions - December 1972

Exploratory	Oil	Gas	Dry
Eocene	0	0	17
UK	1	.0	3
LK	1	0	0
Jurassic	0	0	13
Paleozoic	0	0	4
Development			
Eocene	0	0	3
UK	3	0	1
LK	1	0	0
Jurassic	2	0	1
Paleozoic	0	0	0

New Field Discoveries

Camp Shelby Shell No. 8-11 USA 9-26-72 Sec. 8-2N-10W, Perry Co.

IP/P (13,309 - 13,412) Paluxy 214 BOPD + 1 BWPD

Grav. 180

Hurricane Lake 12-4-72 Craft & Lone Star No. 1 Richardson

Sec. 9-6N-6E, Lincoln Co.

IP/F (10,598 - 10,605) L. Tuscaloosa

120 BOPD + no. wtr. 7/64" ch; TP 1260

Grav. 420

BOWLING NEWS

The Petroleum Bowling League is now mid-way into their season. The league leader in team standings at the half-way point was decided Thursday evening, January 11th, when Mercury Maps retained their position as number one.

Ninety five kegler's are on the roster making up a ten team league. The league meets once a week, on Thursday nights, from September until May. The following statistics show team and individual accomplishments to date.

Team Standings	Won	Lost	Total Pins	Percentage	Average
1. Mercury Maps	88	48	40100	.647	786
2. Hughes, Inc.	86	50	36333	.632	756
3. Ridgway's	82	54	40161	.603	787
4. Engineering Service	78	58	39865	.574	781
5, Larco	78	58	39772	.574	779
6. Oil Well Logging	60	76	37071	.441	772
7. United Gas	60	76	37615	.441	737
8. Miller Oil Purch.	56	80	36060	.412	707
9. Core Laboratories	46	90	38859	.338	761
10, Delta	46	90	35550	.338	697

1st High Team - 3 Games w/HDCP	Mercury Maps	3048 pins
2nd High Team - 3 Games w/HDCP	Ridgway's	3035 pins
3rd High Team - 3 Games w/HDCP	Larco	3027 pins

747 pins

1059

2nd High Individual - 3 Games w/HDCP - George Shaffer	709 pins
3rd High Individual - 3 Games w/HDCP - Bob Jacobs	690 pins
1st High Individual - 3 Game Series - George Shaffer	676
2nd High Individual - 3 Game Series - Bob Jacobs -	636
3rd High Individual - 3 Game Series - Bob Nordling	620
1st High Team Game w/HDCP - Oil Well Logging	1082
2nd High Team Game w/HDCP - Ridgway's	1080

1st High Individual Game w/HDCP - Jim Bollman	281
2nd High Individual Game w/HDCP - Tom Jones	272
3rd High Individual Game w/HDCP - Riley Hagan	267

1st High Individual Game - R. E. Elicker	245
2nd High Individual Game - Riley Hagan	244
3rd High Individual Game - Jim Bollman	244

Annual Holiday Classic, The winners were as follows:

3rd High Team Game w/HDCP - Mercury Maps

1st High Individual - 3 Games w/HDCP - Tom Jones

1, High Hdcp. Series	657	Jim Bollman Trophy	+	\$13.00
2. High Scratch Series	574	Maxie Thornton		\$20,00
3. High Scratch Game	224	Jim Bollman		\$15.00
4. 2nd High Scratch Game	208	John Lacy		\$10.00
5, High Hdcp, Game	235	Sherrill Carlton		\$10.00
6. 2nd High Hdcp Game	230	Dick Robertson		\$ 5,00
7. 2nd High Scratch Series	547	George Shaffer		\$ 5.00
8. Most Strikes in a Row	5	Hugh Sneed		\$10,00
9. Most Spares in a Row	8	Leon Giddings		\$ 5.00
10. Door Prizes:				

Joe Williams	Case of Oil (Standard)
Dean Kebert	Case of Oil (Pennzoil)
Bob Jacobs	Bowling Shoes
Gerry Cooper	\$6.44

The 1st place winner was allotted 30% of the prize money, 20% to second place, 15% to third and 5% to fourth place. Earned prizes as well as door prizes were limited one to a person. The prize money winners and their scores were:

1. Jim Bollman	657	\$13.00
2. Maxie Thornton	655	\$ 9.00
3. Dick Robertson	634	\$ 7.00
4. Dean Kebert	631	\$ 3.00

Other prize money winners for lesser amounts of cash were: Les Franz, Billy Powell, Son Lowery, Hugh Sneed, Tom Jones and Sherrill Carlton.

MISSISSIPPI GEOLOGICAL SOCIETY PUBLICATIONS LIST Maps and Production Data for Oil and Gas Fields

1. Wilcox Fields of Southwest Mississippi, 171 fields, 350 pp. . \$20.00

Mesozoic-Paleozoic Fields of Mississippi and Alabama

2	. Volume I, 1957, 57 fields, 154 pp. 2 composite logs, clothbound
	77 fields
3.	. Volume II, 1963, 143 pp. 3 ring binder \$10.00
4.	. Volume II, Supplements 2 through 7 \$10.00
	. Volume II, Supplements 6 & 7 (New-published 1972) \$ 5.00
	. Volume I & II, with all supplements\$20.00

Field Trip Guide Books

7. Sixth Field Trip - Upper Eocene	, Oligocene, and Lower Miocene
of Central Miss., June, 1948, 74 pp	o, 27 illustrations \$ 5.00

- Ninth Field Trip Claiborne of Western Alabama and Eastern Mississippi, September, 1952, 94 pp, 14 illustrations.....\$ 4.50
- Eleventh Field Trip Paleozoic Rocks, Central Tennessee and Northwest Alabama, May, 1954, 67 pp, 28 illustrations ...\$ 4.00
- 12. Fifteenth Field Trip Cenozoic of Southeastern Mississippi and Southwestern Alabama, May, 1960, 52 pp, illustrated with road log

NOTE: The Guidebook Series is not an annual publication. The books are guides to field-trips sponsored by the Mississippi Geological Society. New editions will be published in the future,

OTHERS:

14. Mesozoic Composite Log of South	Mississippi and South Alabama,
October, 1957	\$ 1.00

- 17. Paleozoic X-Sections Black Warrior Basin, 5 Sections \$7.00 set, \$2.00 Ea.
- Jurassic X-Sections Miss.-Ala.-Fla., 8 dip sections, 1 strike section, available in spring of 1973, price to be determined.

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JURASSIC CROSS—SECTION COMMITTEE PROGRESS REPORT

The Jurassic Cross Section Committee was appointed by Past President Larry Boland during his 1971-72 administration to construct a series of Jurassic stratigraphic cross sections across Mississippi, Alabama, and northwest Florida. Construction of the cross sections was considered necessary to prepare and publish a Jurassic stratigraphic framework that is generally acceptable by the industry in order to subsequently publish a comprehensive regional Jurassic study including stratigraphic maps, production data, etc.

The appointed committee was composed of geologists from several major companies that actively explore the Jurassic in the area of interest and some independent geologists. They are: Marshall Kern (Marr Co.), Marvin Oxley (Bison Oil Co.), Jerry Zoble (Kilroy Oil Co.), Bud Hampton (Amoco), Bob Beu (Chevron), and Jack Lewis (Shell). Charles Barton, Society President, is an ex-officio member. Wilbur Knight served ably as chairman of the committee until pressing personal business forced his resignation in October, 1972. Buddy Twiner (Union Oil) is currently serving as chairman of the committee.

The committee has held several meetings during its one year existence in both Jackson and New Orleans to determine methods and procedures necessary to construct the cross sections and to discuss and coordinate stratigraphic correlations. While there have been minor problems relating to Jurassic terminology, the committee is cooperating to build a Jurassic stratigraphic framework that will serve to benefit the industry in our area.

Eight Jurassic cross sections currently in various stages of completion are being constructed by the committee. The sections are essentially "stratigraphic dip" sections with subsurface correlations based on electric (or other wireline tool) logs and lithologic data. Lithologies are indicated in the borehole section of the electric logs by appropriate symbols, Certain test data and other important items of interest are included on each section.

Well data included on the sections are solicited from the well operators along with permission allowing the society to publish such information. Letters requesting data and publication permission have been sent to the several operators involved and many favorable responses have been received. Currently, only one cross section is in the final drafting stage. Most of the remaining sections are essentially finished prior to final drafting except for incorporation of minor amounts of data.

Upon completion of all sections, a final committee meeting will be called to resolve any remaining problems before releasing the cross section for final drafting and publication. It is anticipated that the project will be finished in the spring of 1973.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

FEB. 13 Amoruso Talk - Kings Inn Social Hour 5:30 P.M. - Dinner 6:30 P.M.

FEB. 20 Petroleum Auxiliary - Arts & Crafts Fowler Lodge - 11:30 A.M.

FEB, 26 JGS - John F. Bradshaw Talk - Kings Inn Cocktails 5:30 P.M. - Dinner 6:30 P.M.

FOR RESERVATIONS TO THE FEBRUARY 13 MEETING, CALL T. C. RADER'S OFFICE (948-4128) BY NOON MONDAY, FEBRUARY 12.

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VOL. XX, NO. 7, MARCH, 1973

YORSTON TO SPEAK MARCH 20 ON SEISMIC PITFALLS

ESSO RESEARCHER SPEAKS TO MGS

The March meeting of the Mississippi Geological Society will be held Tuesday, March 20, at the King's Inn in Maywood Mart. Mr. Howard Yorston will present a paper entitled "Pitfalls in Seismic Interpretation". Mr. Paul M. Tucker and Howard Yorston are co-authors of the paper. A social hour will begin at 5:30 p.m. and dinner will be served at 6:30 p.m.

Mr. Yorston received his B.S. (1953) and M.S. (1954) in Geology from the Missouri School of Mines. He joined the Carter Oil Company in 1954 as a Seismic Interpreter and worked in the Gulf Coast Area. In 1962, he joined Esso Production Research Company and at present is Research Specialist in Structural and Stratigraphic Interpretation of Seismic Data.

Mr. Paul M. Tucker received his B.S. in Geology and Physics from Michigan State University in 1935. He has been employed



HOWARD YORSTON

since then by Jersey Standard and its affiliates. Between 1935 and 1945, he was with Carter Oil Company as a Seismic Interpreter. Between 1945 and 1955, he was overseas with various Jersey Companies in Cuba, Dominican Republic, Colombia and Peru as Chief Interpreter, Chief Geologist and Assistant Exploration Manager. He was Regional Geologist of South America in New York City with Jersey.

From 1955 to 1965, Mr. Tucker was Chief Interpreter for Humble's Central Division in Tulsa. In 1965, he transferred to Esso Production Research in Houston. At present he is Research Associate in Seismic Interpretation.

Mr. Yorston's and Mr. Tucker's paper present material which should be of interest to all explorationists. The Jackson Geophysical Society members and other interested guests are invited to hear this talk.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

MAR. 19 JGS Smith Talk – King's Inn Social Hour 5:30 p.m. – Dinner 6:30 p.m.

MAR. 20 Yorston Talk and Special Election – King's Inn Social Hour 5:30 p.m. – Dinner 6:30 p.m.

FOR RESERVATIONS TO THE MARCH 20 MEETING, CALL T. C. RADER'S OFFICE (948-4128) BY NOON MONDAY, MARCH 19.

PITFALLS IN SEISMIC INTERPRETATION ABSTRACT

Howard Yorston and Paul M. Tucker

Many pitfalls in seismic interpretation are concealed beneath seemingly straight-forward reflections, but these can be avoided. They can be classified into three groups; those caused by velocity, those due to the geometry of the reflector, and those resulting from recording and playback.

Regional velocity changes seldom give trouble but within small, deep intermontane basins, a false indication of basinward thinning is sometimes observed. Of greater concern is the abrupt change in the velocity due to an equally abrupt structural change; the fault which

creates false reversals, the reef with its underlying "high", the surface or sea floor irregularity with its coincidental subsurface reversal. The depth section can be used to avoid these pitfalls, providing it is not in itself a pitfall.

The geometry or shape of the reflecting surface is equally tricky. It can turn and super-impose one structure on another by sideswipe and create a diffraction anticline.

Our latest and perhaps most serious pitfall is computer derived. The recording and

PAUL M. TUCKER

playback can distort both the structure and stratigraphy. Real structures can be suppressed, false bedding created, faults smeared, and all of the geology lost. Only through constant rapport between the geologist, interpreter, and the processing engineer, will these recording and playback errors be avoided.

He will first demonstrate the geological phenomena that leads to these errors, then use seismic models to explain the origin, and finally provide simple validity tests for spotting the pitfall.

SPECIAL ELECTION MARCH 20

MGS President Charles Barton has called a special election to be held at the regular meeting on March 20th. The purpose of this election is to name an MGS Alternate Representative to the AAPG House of Delegates. The Nominating Committee has selected the following candidate:

John M. Richart - Union of California - unopposed.

MISSISSIPPI GEOLOGICAL SOCIETY

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from the editor

Jim McMullen

A recent report on AAPG-AGI relations by the AAPG House of Delegates ad hoc Committee was passed on to me for reading by our past president, Larry Boland. I have in the past plowed through AGI literature with a bleary-eyed, indifferent attitude. For me, AGI was "Geotimes", an informative geological publication which I receive each month. I usually review the Geologic Calendar of Events, the feature article, and above all I never miss Robert Bates' article "the geologic column". This "Life Member of the Coprolite Research Association of Paleoscatologists" writes a hilarious article. With this hasty review, I file it on the shelf alongside of the last issue as "a future reference."

The AAPG-API Committee states in their report that the bulk of AAPG members show little interest in AGI, so at least I am consoled knowing that many share my shame. The committee wrote an excellent report. The factual information about AGI was enlightening to me, therefore, I decided to share it with MGS members.

The purposes of AGI are clearly stated in Article II of the newly-proposed Constitution and By-Laws. These purposes are to encourage the advancement of earth sciences for public welfare and education through coordination and supplementation of appropriate activities of constituent and other organizations in (1) promotion and application of research; (2) establishment and maintenance of high standards of education and professional ethics; and (3) dissemination of knowledge through publications, conferences, and similar means and through such other activities as constituent societies may request.

It is pointed out by the ad hoc committee then that the AGI does not have a lobbying function, an industry function, nor does it certify or register anyone because it does not issue licenses. The one most important function of AGI is the dissemination of knowledge related to the earth sciences.

No organization fills a useful purpose if it does not provide services. These can be listed in three categories (1) publications; (2) services; and (3) education.

The Publications are: The Glossary revision, containing 30,000 geological and many geophysical terms at a cost of \$240,000; Geotimes, a monthly magazine sent to all members; AGI Report — more than 30 petroleum companies receive this weekly summary of news related to the geological profession; Geo-Ref, a computer-based bibliographic service that documents the World's geological literature; and Translation Program — This NSF-funded program produces International Geology Review, Geochemistry Internation 1, Doklady (Earth Science Section) and Paleontological Journal.

A few of the Services provided by AGI and those requested by member societies are: Manpower Supply and Demand Study; National Register of Scientific and Technical Personnel; Career Guidance Program; and the Model Registration Law.

Under Education, AGI has provided: Earth Science Curriculum Project (It produced a new textbook "Investigating the Earth"); short courses; International Field Institutes; Visiting Geoscientist Program; Directory of Geoscience Departments; Minority-group participation in earth sciences; Environmental Studies Leadership Workshop; Council on Education in the geological sciences; and the Environmental Studies Project.

AGI affairs are conducted by a Governing Board made up of the Presidents of each member Society. Each Governor has one or more votes, depending upon the size of the Society he represents. A Society of 1,000 members has one vote and the number of votes increases until a Society with 15,000 or more members receives a maximum of 6 votes. The member societies are: American Association of Petroleum Geologists, American Geophysical Union, American Institute of Professional Geologists, Association of American State Geologists, Association of Engineering Geologists, Geochemical Society, Geological Society of America, Geoscience Information Society, Mineralogical Society of America, National Association of Geology Teachers, Paleontological Society, Seismological Society of America, Society of Economic Geologists, Society of Economic Paleontologists and Mineralogists, Society of Exploration Geophysicists, Society of Mining Engineers of AIME, and the Society of Vertebrate Paleontology,

Member societies are assessed dues on the basis of membership, with current contributions at a level of \$2.00 per member. For 1972, the source of funds for the budget of \$336,000 (exclusive of grants) includes \$74,600 from 17 member societies; \$20,450 from 65 corporate members; \$800 from 4 corporate associates; \$2,200 from 22 academic associates; \$6,300 from 63 members of the Centurion Club and its balance from other contributions, sales, advertising and other services. Noteworthy is that the AAPG contribution is about seven percent of the total (\$20,000). The ad hoc Committee points out that the AAPG is getting, for its \$20,000 contribution, a large voting share of AGI's budget of \$336,000. That investment is hard to beat. Few are aware of the extent and nature of NSF grants to AGI. These grants provide a large sum of money that is only indirectly a Federal subsidy.

In summary, the purposes, services, governing body, and funding of AGI have shed sunshine on my confusion. I now know that Geotimes is but one of many contributions AGI makes to our profession. To state that there are no problems with regard to AAPG-AGI relations would be avoiding the truth; however, to me they appear to be surmountable ones and ad hoc Committee Chairman Richard F. Meyer appeared to be well on the way to clearing the communications gap between the two societies,

progress -

by Jim McMullen

Mississippi Completions - January 1973

	Exploratory		3	nt		
	Oil	Gas	Dry	Oil	Gas	Dry
Eocene	0	0	9	0	0	2
UK	1	0	1	3	0	2
LK	0	0	3	0	0	1
Jurassic	1	0	2	0	0	1
Paleozoic	0	1	1	0	0	0

New Field Discoveries - January 1973

Strong 1/7/73	Ladner & Hildebrand No. 1 Watson Sec, 6-16S-7E, Monroe County. IP/F (5640 - 5658) Sanders Sand, 500 MCFGPD + trc oil + 4BWPD 30/64" ch; TP 110
Cobb Branch 1/3/73	Wyatt Craft No. 1 Prestridge Sec. 35-4N-6E, Amite County IP/F (11,049 - 11,060) L. Tuscaloosa 9/64" ch; TP 350 110 BOPD
Thornton 1/3/73	Patrick Petroleum Co, No. 1 Smith Sec. 9-14N-1W, Holmes County. IP/F (10,688 – 10,692) Smackover 2954 MCFGPD + 104 BCPD 14.4/64" ch; TP 2810 Grav, 48.1°

BLACK WARRIOR BASIN-ACTIVITY REPORT

by Dale O. Reese

The Black Warrior Basin, a Paleozoic basin in northeast Mississippi and northwest Alabama, is receiving active exploratory attention. The recent acceleration in drilling is reminiscent of the early history of the Smackover play in the states east of the Mississippi River.

While an underexplored basin by any domestic standards, especially in its deeper southwest portion, the Black Warrior Basin has proven hydrocarbon potential. Sufficient knowledge of requisites for hydrocarbon entrapment has been accumulated to permit informed exploratory programs. Past obstacles to exploration such as uneconomic gas prices and poor seismic record quality appear overcome or diminishing. Certainly no oil man or oil company can afford to overlook a proven gas area in an early stage of drilling with low acreage costs and a favorable geographic market position. Recent reports have indicated intrastate gas prices of 40-60 cents are at hand.

The most significant drilling activity is listed below and number coded to Figure I. Stewart W. Welch has previously presented the geology of the Black Warrior Basin in the Geological Society News Bulletin of January, 1971. Figure I is an updated reproduction of his Top Mississippian Structure Map.

- Corinne Field (Section 1-T16S-R7E, Monroe County, Mississippi)
 Discovery well Ladner, Hildebrand, Gibraltor Oil Corporation
 No. 1 Richardson.
 Dual Completion March, 1972.
 Upper perforations at 2830-42 feet (Pennsylvanian Sand).
 Flowed 1.2 million cubic feet of dry gas per day, 18/64" choke, FTP 1960 pounds.
 Lower perforations at 5270-74 feet (Chester Sand).
 Flowed 2.3 million cubic feet of dry gas per day, 22/64" choke, FTP 800 pounds.
- (2) Strong Field (Section 6-T16S-R7E, Monroe County, Mississippi).

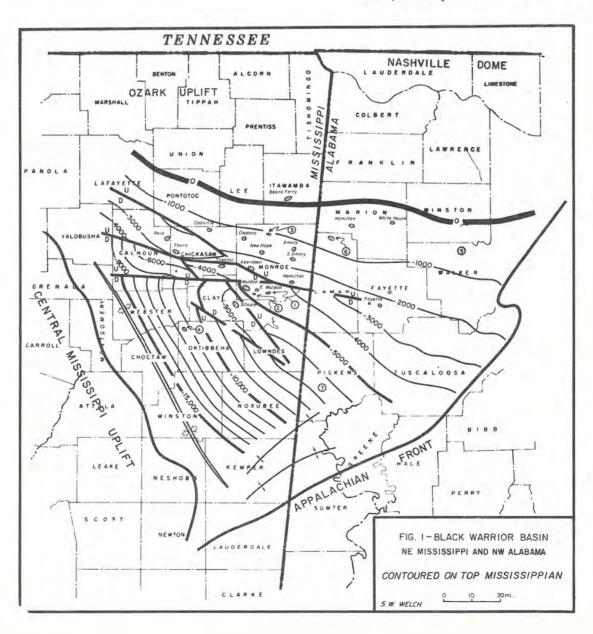
 Discovery well Ladner, Hildebrand, Gibraltor Oil Corporation

 No. 1 Watson.

 Single completion February, 1973.

 Perforations 5640-58 feet (Chester Sand).

 Flowed 0.5 million cubic feet of dry gas per day, 30/64" choke, FTP 110 pounds.



BLACK WARRIOR (continued)

 Four Mile Creek Field (Section 17-T12S-R18W, Monroe County, Mississippi).

Discovery well - Pruet and Hughes Company No. 1 Armstrong Unit,

Dual completion February, 1973.

Upper perforations at 1729-49 feet (Chester Sand).

Flowed 0.85 million cubic feet of dry gas per day, 1/4" choke, FTP 610 pounds.

Lower perforations at 1790-1808 feet (Chester Sand).

Flowed 0.79 million cubic feet of dry gas per day, 1/4" choke, FTP 630 pounds.

 Maben Field (Section 28-T19N-R12E, Oktibbeha County, Mississippi).

Discovery well - Texaco No. 1 Sheely

Single completion January, 1971.

Perforations (Intervals) 14,960-15,036 feet (Ordovician carbonate).

Flowed 0.6 million cubic feet of dry gas per day, 9/64" choke, FTP not available.

NOTE: Exxon Corporation has drilled to 21,376 feet (a new depth record for the basin) in an offset to this well, Operator has released no information on this most important new test, Stratigraphic information derived from the Exxon well will give a first look at the Cambro-Ordovician of the deep basin.

(5) Walker and Winston Counties, Alabama. Multiwell drilling program by Shenandoah Oil Corporation is in progress with several completions reported at shallow depths. (T12S-R15W, Lamar County, Alabama).

Discovery well - Tatum No. 1 Delaney

Single completion February, 1971.

Perforations at 1782-1798 feet (Chester Sand). Pumped 63 BOPD, 22 degrees gravity.

NOTE: Later wells flowed 1,3 to 1,7 million cubic feet of gas per day and are completed as shut-in gas wells from the Chester Sand.

(7) Multiwell drilling program by Shell Oil Company in Pickens and Greene Counties, Alabama and Noxubee County, Mississippi. A significant 13,500 foot test (Cambro-Ordovician?) is now drilling in northern Greene County.

The Black Warrior Basin offers a wide choice of drilling targets and investment strategies to fit every pocketbook. In the shallow shelf areas such as East Detroit Field, gas wells can be drilled and completed for about \$30,000. Intermediate depth drilling on the deeper shelf areas like Muldon and Corinne Fields can be drilled and completed for about \$130,000. The deeper portions of the basin offer a happy hunting ground for giant structures in areas leasing for one dollar per acre bonus and low lease royalty.

Mississippi Geological Society Executive Committee Meeting February 6, 1973

In attendance:

Charles Barton, President
James Twiner, 1st Vice President
Larry Walter, Treasurer
T. C. Rader, Entertainment Chrm.
Gerald Kinsley, Publications Chrm. Vol. III Redbook

The following business was brought before the Committee for discussion and action:

- Discussed the Spring Barbeque, Mr. T. C. Rader proposed that Halliburton & Dresser Atlas would do the barbecuing for a joint meeting of the AIME, API, JGS, Landmen and the MGS. The other societies would be contacted and a date set. Financing would be worked out at a later date.
- Committee members approved the purchase of a 35 mm Carousel Projector,
- 3. Gerald Kinsley agreed to chair a committee to publish Volume III of the "Redbook". This project would involve the publishing of fields not previously published, plus the updating of older fields with deeper producing zones and new data.

C. A. Barton, President

GCAGS REQUESTS PAPERS FOR 1973 HOUSTON MEETING

Stewart Chuber, GCAGS Editor, and Amos Salvador, Program Chairman, are asking Local Geological Society Editors to recommend individuals with pertinent papers to present at the 1973 Houston Meeting. A four-part theme has been chosen this year to include primarily Gulf Coast papers on: (1) Deltas, (2) Tectonics, (3) New Techniques, (4) Offshore and Marine Research. They are particularly interested in field studies and regional subsurface investigations.

Interested parties should direct the titles and a preliminary abstract of their paper to:

Mr. Amos Salvador Exxon Company, U.S.A. P.O. Box 2180 Houston, Texas 77001

Should the papers be acceptable for presentation, the abstracts should be mailed by May 1, and the complete manuscript by June 15. They should be sent to the following address:

Mr, Stewart Chuber 2525 Two Shell Plaza Houston, Texas 77002

The officers of the Mississippi Geological Society urge interested members to respond to this appeal,

BOOKS & PERIODICALS NEEDED BY PENNSYLVANIA SURVEY

The June flood in the Appalachian Basin destroyed the new quarters of the Pennsylvania Geological Survey in Harrisburg. Destroyed in the flood were the survey's library of 40,000 volumes, a collection of more than 200,000 topographic and geologic maps and extensive files of manuscripts and photos.

Though some of this material may be salvaged, the survey director, State Geologist Arthur A. Socolow, is calling on friends in the industry and in geological circles for help in replacing portions of the library which are out of print. He is asking anyone with surplus books and periodicals to send him a list of what can be spared. He in turn will advise the possible donor of his needs. It is the intent of the survey to rebuild the library to be one of the best geological research libraries available. Particularly needed are older publications of the Pennsylvania surveys and of adjacent states.

Mr. Socolow points out that the survey is fully prepared to accept designated shipments express collect, and to acknowledge them for purposes of possible tax deductions. He can be addressed at "Commonwealth of Pennsylvania, Department of Environmental Resources, Bureau of Topographic and Geological Survey, Harrisburg, Pennsylvania 17120."

A similar disaster occurred at Rapid City, South Dakota, when the June flood there wreaked havoc on the collection of periodicals at the South Dakota School of Mines and Technology. If you can donate publications or other help, J. P. Gries, School of Mines and Technology, Rapid City, South Dakota 57701, would be pleased to hear from you.

aapg news -

MEMORANDUM

Mr. Ralph J. Bernhagen, Chairman of the Resolutions Committee of the A.A.P.G. House of Delegates states that the House of Delegates is charged with the responsibilities of presenting at the annual meeting resolutions originating from the Affiliated Societies and/or other resolutions that are deemed to be appropriate.

The purpose of this memorandum is to solicit resolutions which should be brought to the attention of the House of Delegates at the Annual Meeting in Anaheim, California, May 14 – 16, 1973. Please submit your resolutions to the Committee no later than March 31, 1973.

NEW AAPG PUBLICATION

With interest in oil and gas exploration off the Atlantic Coast growing, the American Association of Petroleum Geologists has just published a comprehensive book on the subject entitled "Western North Atlantic Ocean: Topography, Rocks, Structure, Water, Life and Sediments".

The book is a compendium of the discoveries in geology, oceanography, marine biology, and related sciences, and covers the area from the eastern Gulf of Mexico and the Caribbean to the Arctic. It discusses not only the areas favorable to oil and gas occurrence, but also describes mineral deposits found on the ocean floor and the fisheries and marine life found in these waters and on the sea bottom.

Starting with the early discoveries of North America by the Vikings and Columbus, the book reviews the history of exploration and early mapping of the Atlantic coast, and continues through researches done with airborne radar and satellite photography. It contains discussions of ocean currents, water temperature, tidal action, and shore conditions.

The 532-page book is profusely illustrated and thoroughly documented as to sources of information. A large, colored bathymetric map is included in a pocket in the book. It was compiled by K. O. Emery and Elazar Uchupi of Woods Hole Oceanographic Institution with the co-operation of the U.S. Geological Survey, the National Science Foundation, and the Office of Naval Research. Copies may be obtained at \$30,00 each from the American Association of Petroleum Geologists, Box 979, Tulsa, Oklahoma 74101.

FRED A. DIX, JR. – NEW EXECUTIVE DIRECTOR OF AAPG

Fred A. Dix, Jr., staff geologist with Mobil Oil Corp., Houston, has been named as the new executive director of the American Association of Petroleum Geologists, effective January 16.

His appointment was announced by James E. Wilson of Denver, AAPG president, The position has been vacant since last February.

Dix, 41, is the current treasurer of AAPG, a position to which he was appointed in 1972 succeeding the late Dr. H. B. Renfro of Dallas.

Dix is a native of Connellsville, Pa., but spent most of his boyhood at Salem, N.J. He earned his B.S. and M.S. degrees from Rutgers University, the latter in 1957. From 1953 to 1955 he served with the U.S. Air Force.

Upon receiving his master's degree in 1957 he joined Standard Oil Co. of California, with which he served as geologist in Salt Lake City and Denver before joining Mobil Oil Corp. in 1965.

With Mobil he was a geologist in Jackson, Miss. until 1966 when he became geologist and exploration data processing coordinator at Corpus Christi, then transferred this year to Mobil's exploration office in Houston.

From 1968 to 1970 he was first vice-chairman and later chairman of AAPG's committee on statistics of drilling, during which time (1969-1970) he served on the American Petroleum Institute's committee on well and drilling statistics, and the API special committee for standard definition of drilling statistics.

His articles on North American Drilling Activity have been published in the Bulletin of the AAPG in 1968-69-70.

He has been a member of geological societies in Salt Lake City, Denver, and Jackson, and currently is a member of the Corpus Christi and Houston Geological Societies. He has been a member of AAPG since 1957.

personal news-

Connor D. Smith has been appointed Land Manager of Florida Gas Exploration Companies, Jackson District. Mr. Smith has been associated with the oil industry for more than twenty years. He and his family have been in Jackson since 1958, where he has worked as an independent since leaving the Gulf Oil Corporation in 1964. Kevin Cahill, consulting geologist in Jackson, has accepted a position with Shenandoah Oil Corporation effective January 15th.

William L. Word has been named Manager of C & K Petroleum, Inc. for the Jackson, Mississippi, Exploration office at 1800 Capital Towers. Mr. Word was previously Land Manager for Southeastern Exploration Company in Jackson, Mississippi.

Julius M. Ridgway, previously with the Petroleum Department of the First National Bank in Jackson, has opened consulting offices at the E.S.I. Building in The Quarter on Lakeland Drive, Jackson, Mississippi. His mailing address is P. O. Box 387, 39205.

It is timely to mention that because of the ruinously low price of crude oil, the petroleum producers of Pennsylvania agreed to suspend the pumping of oil and the drilling of new wells for a period of 30 days. This action, designed to increase the price of crude, took place in 1872. The ruinously low price — \$3.00 per barrel!

WIDE LINE PROFILING SUBJECT FOR JGS TALK MARCH 19

The March meeting of the Jackson Geophysical Society will be held on Monday, March 19th, at the King's Inn in Maywood Mart, I-55 N. Mr. Charles B. Smith, Jr., Georex Incorporated, Houston, Texas, will speak on "Wide Line Profiling — A Three Dimensional Seismic Field And Processing Technique."

Mr. Smith is a 1944 graduate from the University of Oklahoma where he holds a B.S. degree in Electrical Engineering, After graduation Mr. Smith spent 3½ years with the Army Signal Corp. In 1946 he accepted a position as Seismic Observer with Continental Oil Company. He spent 15 years with Continental progressing to the position of Exploration Manager for the Rocky Mountain Region. In 1961 he left Continental and accepted a position with Geo-Prospectors as Manager until 1968. In 1968, Mr. Smith was named to his present position as President, Georex Incorporated, Houston, Texas,

Mr. Smith is a member of Seismograph Exploration Geophysicists and is currently 2nd Vice-President of the Houston Geophysical Society.

Wide Line Profiling consists of distributing an adequate number of shot points and receivers in such a way that we obtain a kind of strip of the reflectors on which the reflecting points are regularly spaced out, Generally, the strip consists of 3 to 6 parallel lines covering a total width of a few hundred meters,

When processing the sections, an extremely rigorous selection procedure is applied, so that only the events with a lateral time gradient which falls inside a narrow window of a few milliseconds by 100 meters are retained. Depending on the complexity of the tectonics, 5 to 11 selections are made to ensure that the whole range of expected reflections is covered.

All the events which are retained can then be grouped together on a single section to make the interpretation easier. This single section has a higher signal/noise ratio than the section obtained by recording a conventional profile for two reasons:

- first, only the events with lateral coherence are retained, thus helping to eliminate random noise;
- secondly, only the events with a lateral time gradient which
 is compatible with local tectonics are retained, eliminating
 thus organized lateral noises, which generally have a stronger
 gradient.

Furthermore, the accurate lateral, longitudinal and total gradients of all the events retained are calculated by a computer. The result is printed every 200 ms and every 6 traces on a document which can be superimposed on the section.

When used in conjunction with automatic picking or hand picking, which selects the seismic horizons, "WLP" processing supplies all the information necessary to trace the isochron map of the main horizons in receiver position or in migrated position. The accuracy of this tracing is of course very much improved since the direction of the true dip is known.

PUBLICATION LISTS EXCHANGED

The Corpus Christi Geological Society's Publication Chairman has written to Charles Barton, MGS President, proposing that each Society publish the others list of available publications in their monthly bulletins.

It is hoped that by doing this the sale of publications by both of our geological societies would have an opportunity to grow, and our readers would have an opportunity to purchase publications which most members are not presently aware.

The combined membership of both societies total 795 members. The two bulletins would geographically be distributed to members in most of the Gulf Coast States. Our MGS officers are responsive to this excellent suggestion and comply by asking all to carefully read the following list, make your selections, and send your check or money order to:

> Publications Department Corpus Christi Geological Society P.O. Box 1068 Corpus Christi, Texas

CORPUS CHRISTI GEOLOGICAL SOCIETY AVAILABLE PUBLICATIONS, 1972

C.C.G.S. Guidebook, 1961, "Pleistocene-Jurassic,	PRICE	POSTAGE
Laredo to Monterrey, Mexico	\$4.50	\$.14
C.C.G.S. Annual Field Trip, 1965: "Upper Cretaceous		
Asphalt Deposits of the Rio Grande Embayment	\$5.00	.14
"Typical Oil & Gas Fields of South Texas", 1967	\$9.00	-28
C.C.G.S. Annual Field Trip, 1968:		
"South Texas Uranium"	\$5.50	-14
C.C.G.S. Annual Field Trip, 1970:		
"Hidalgo Canyon and La Popa Valley	\$7.50	.21
January, 1970 Bulletin Special Uranium Issue	\$2.00	.14
1970-71 Photo Directory of C.C.G.S Members	\$2.00	.14
- Non-Members	\$3.00	.14
1969-70 Directory C.C.G.S. Members (no pictures)	\$1.00	.14
Binder for Directories of C.C.G.S. Members		-14
		1,44.4
C.C.G.S. Monthly Bulletin per individual issue	\$2.00	.14
Type Logs of South Texas Fields, Vol. 1 -		
Frio Trend, 1972	\$15.00	.65
128 Individual Type Logs (per log)	\$3.00	
(When ordering more than one) (per log)	\$2.50	
Padre Island National Seashore Field Guidebook, 1972 .	\$5.00	.14
CROSS SECTIONS		
VS 1" = 400'; HS 1" = 8000'		
Rio Grande Valley: Zapata to Cameron Co., Texas (1954)	\$3.50	.30
Laredo to Baffin Bay, Texas (1954)	\$3.50	.30
Cameron to Calhoun Counties, Texas Part I (1955)	\$3.50	-30
Cameron to Calhoun Counties, Texas Part II (1955)	\$3.50	-30
DIP SECTIONS: A, B, C,: STRIKE SECTIONS: D,E. VS 1" = 800': HS 1" = 800'		
A-A' Starr to Cameron Counties, Texas (1964)	\$2.50	
B-B' Live Oak to Nueces Counties. Texas (1964)	\$2 50	
C-C' DeWitt to Calhoun Counties, Texas (1964)	\$2.50	
D-D' Hidalgo to Nueces Counties, Texas (1964)	\$2.50	
E-E' Nueces to Victoria Counties, Texas (1964)	\$2.50	
Discount of 25% on complete sets (Complete Set)	\$9.50	1.00*
*Please add additional \$1.00 for rolled sections		

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TECHNICAL ARTICLES IN AVAILABLE MONTHLY BULLETINS, 1972

PRICE POSTAGE

Vol. XI, No. 6, February, 1971		
"Environments of Deposition of the Yegua Formation		
(Eocene), Brazos County, Texas". R. J. LeBlanc, Jr	\$2.00	\$.14
Vol. XI, No. 7, March, 1971		
"The Use of Grasses for Dune Stabilization along the		
Gulf Coast With Initial Emphasis on the Texas		
Coast". D. W. Woodward, B. E. Dahl, R. L. Baker		
and D. E. Feray	\$2.00	.14
Vol. XI, No. 8, April, 1971		
"Crustal Structure of the Texas Gulf Coastal Plain"		
J. E. Fish	\$2.00	.14
Vol. XI, No. 9, May, 1971		
"Clastic Diapirism in the Gueydan (Catahoula) Forma-		
tion, Live Oak and McMullen Counties, Texas".		
P. S. Freeman	\$2.00	.14
	42.00	
Vol. XII, No. 2, October, 1971		
"Sediments and Depositional History of the Southeast		
Lobe of the Colorado River Delta, Texas". L. L.		
Manka and R. Steinmetz	\$2.00	.14
	627.53	
Vol. XII, No. 4, December, 1971		
"Oil and the Challenge of Alaska - The Petroleum		
Industry's Concern for the Environment".		
Committee on Public Affairs of the American		
Petroleum Institute	\$2.00	.14
Vol. XII, No. 4, January, 1972		
"Santa Barbara Lives!"		
Originally published by West Magazine of the		
Los Angeles Times	\$2.00	.14
Vol. XII, No. 6, February, 1972		
"Relationship Between Hydrocarbon Accumulation		
and Geopressure and its Economic Significance".		
D. J. Timko and W. H. Fertl	\$2.00	.14

NEW PUBLICATIONS

The Houston Geological Society, in response to numerous requests, is reprinting Deltas in Their Geologic Framework. Order your copy now for early 1973 delivery.

This volume, first in a series published by the Delta Research and Study Group of the H.G.S., is primarily composed of papers presented at the 1965 meeting of the Gulf Coast Association of Geological Societies held in Houston. Already a classic, it should be a valuable aid to any petroleum or engineering geologist as well as to any neophyte geologist interested in excellent descriptions of modern and ancient delta systems.

The price of this 3rd printing is \$9.00 (tax 45 cents, Post, & Hand, 50 cents). Checks should be made payable to the Houston Geological Society, 234 Esperson Bldg., Houston, Texas 77002.

The New Glossary of Geology. By far the largest and newest dictionary in its field, with 876 pages, 33,000 terms, and a bibliography with more than 1,500 citations, a glossary will be the English-language dictionary of the earth sciences for years to come. The price is \$22.50, and may be ordered from American Geological Institute, 2201 M Street NW, Washington, D. C., 20037.

The New Directory of Geoscience Departments. A complete new edition, listing 720 U.S. and Canadian departments in the geosciences: 447 with degree programs, 99 four year schools and 174 junior colleges. The directory is priced at \$8.00 per copy from AGI, 2201 M Street NW, Washington D.C. 20037.

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MISSISSIPPI GEOLOGICAL SOCIETY

P. O. Box 422

Jackson, Mississippi 39205



Mr. Fred F. Mellen 1202 Standard Life Bldg. Jackson, Miss. 39201





VOL. XXI, NO. 8, APRIL, 1973

WINSTON SPEAKS APRIL 17 ON PENINSULA OF FLORIDA

PENINSULA FLORIDA - GEOLOGIC MYSTERY ABSTRACT

George O. Winston Coral Gables, Florida

The South Florida Basin is located within the Florida-Bahama Platform, a regional feature extending from the Florida Escarpment east to the Blake-Bahama Escarpment, and from Georgia into Northern Cuba. Most of this platform slowly subsided from early Mesozoic to Middle Eocene. Differing rates of subsidence resulted in several regional arches and basins within the platform.

Regional relationships suggest that in the deeper portion of the Basin, Comanchean rocks will be underlain by a predominately extrusive basement. Comanchean rocks are everywhere present, are cyclic in nature, and consist of limestone, dolomite, and anhydrite. Comanchean units favorable for oil production are the "brown dolomite", the Sunniland Limestone, and Unit C of the Dollar Bay Formation. Gulfian chalk is replaced by the Card Sound Dolomite in Southeast Florida where it has some small oil potential. The Lower Tertiary Cedar Keys Formation, composed of dolomite and anhydrite, has a small oil potential. Eocene limestones and dolomites have little potential because they are considerably flushed by fresh water of the Floridan Artesian Aquifer. The Upper Tertiary is thin and has no favorable characteristics.

Glades Group, Ocean Reef Group, Naples Bay Group, and Card Sound Dolomite are proposed for unnamed sequences in the Cretaceous of South Florida.

The relationships of the Florida Peninsula with the Florida Panhandle, South Georgia, the Bahamas, and Cuba, as well as basic data on South Florida producing fields and the exploration history of the peninsula and post-Jurassic panhandle will also be discussed.

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

APRIL 13 Petroleum Auxiliary - Couples Barbecue MPL Lodge, 7:00 P.M.

APRIL 17 MGS Winston Talk - Primos Northgate Social Hour 5:30 P.M. - Dinner 6:30 P.M.

FOR RESERVATIONS TO THE APRIL 17 MEETING, CALL T. C. RADER'S OFFICE (948-4128) BY NOON MONDAY APRIL 16.

CORAL GABLES CONSULTANT SPEAKS TO MGS

The April meeting of the Mississippi Geological Society will be held Tuesday, April 17, at Primos Northgate restaurant at 4330 North State Street, Jackson. Mr. George O. Winston, a geological consultant from Coral Gables, Florida will present a paper entitled "Peninsula Florida-Geologic Mystery." The social hour will begin at 5:30 P.M. and dinner will be served promptly at 6:30 P.M.

Mr. Winston graduated from Indiana University in 1947. His career has been entirely in subsurface geology. Until 1964 Mr. Winston was an employee of the Carter Oil Company and later merged with the Humble Oil Company. His work consists microscopic mainly of examination, interpretation and mapping of carbonate and evaporite rocks in the Michigan Basin, the Central Interior Basin, the Williston Basin, Eastern Gulf Coast and Florida, Since 1964, he has been a consultant in the petroleum industry headquartering in Coral Gables, Florida, where he has made two



GEORGE O. WINSTON

studies for the Florida Bureau of Geology, and, additionally, he has prepared a comprehensive geologic study of the Florida-Bahama offshore area for Petroconsultants in Geneva, Switzerland.

His paper "Regional Structure, Stratigraphy, And Oil Possibilities Of The South Florida Basin" was well received at the 21st annual meeting of the GCAGS in New Orleans in 1971. He has had two articles published in the Oil and Gas Journal in recent years, "A Deep Glimpse Of West Florida's Platform," December 1, 1969, and "Watch Out For Some Unexpected Accumulations As Exploration Activity Continues In Florida," October 26, 1970. His paper "The Dollar Bay Formation of Lower Cretaceous (Fredricksburg) Age In South Florida, Its Stratigraphy And Oil Possibilities" was published in 1971 by the Florida Bureau of Geology.

Prospect hunters interested in the Jurassic of the Florida Panhandle and the Lower Cretaceous of the South Florida Basin should anticipate an overflow crowd and make early reservations for this informative talk - and bring a guest.

MISSISSIPPI GEOLOGICAL SOCIETY

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PRINTED IN JACKSON, MISSISSIPPI

A RESOLUTION

The February issue of the Bulletin advised the membership of the intent of the Executive Committee to recommend that the Mississippi Geological Society support, by way of a resolution, the Mississippi State Geologists request for a new building to house the State Geological Survey.

Charles Barton, President of MGS, brought the topic up for discussion at the regular meeting on January 16th. It was pointed out that the new building would provide offices for Survey personnel, laboratory facilities, and the geologic library. The present building would be retained for storage of samples and cores, After discussion, all members present unanimously agreed to support the State Geologists request.

Members of the MGS will be petitioned to sign this document in the near future. The instrument will read as follows:

RESOLUTION

WHEREAS, the Mississippi Geological Society is officially domesticated with the Secretary of State of the State of Mississippi, and its membership reaches the full spectrum of professional geological activity in the State,

WHEREAS, a monthly meeting of the Society was held at 6:30 P.M., Tuesday, January 16, 1973, in Jackson, Mississippi, there being a quorum present sufficient for the transaction of business, and

WHEREAS, after a full discussion of the housing needs and services required of the Mississippi Geological Survey was had, and after determination and recognition of the responsibilities of the Mississippi Geological Society in matters of fostering economic development of our State through Geology, of improving the profession, and of protecting the general welfare of the Public,

NOW, THEREFORE, WE DO HEREBY RESOLVE unanimously that the geological needs of the State of Mississippi require the building of a structure suitable and safe for the protection and preservation of the valuable libraries and collections of the Mississippi Geological Survey, for the provision of laboratories and offices for the study of the mineral natural resources of the State, and for the establishment of a better competitive position of Mississippi among its sister states for the proper and wise development of our known mineral resources, and for the discovery of other resources not yet known,

AND BE IT RESOLVED, that the President and the Secretary move without delay to execute this resolution and to deliver copies to the members of the Capital Improvements Committee of the Mississippi Legislature, to the Commission of Budget and Accounting, to the Mississippi State Building Commission and to Governor William L. Waller.

This in Jackson, Mississippi on the

Riley Hagan, Jr. Charles A. Barton

Secretary President

APPEAL FOR HELP LAFAYETTE GEOLOGICAL SOCIETY

A long time member of the Lafayette Geological Society has experienced a most serious illness within his family. Harold Ham, a Senior Engineer for Schlumberger, has a son who has suffered a complete kidney failure. David Ham in November, 1972, received a kidney transplant from Marold, the only medically acceptable family donor. Unfortunately, the transplant was rejected, leaving David in a debilitated condition, surviving only by artificial means. He is at present a patient at Hotel Dieu in New Orleans. After three months treatment, and direct medical expenses in excess of \$24,000, the family is facing serious financial difficulties.

Major Medical Insurance has taken care of approximately 75% of the direct medical expenses to date; however, the expenses are now nearing the maximum limits of the policy. Therefore, future medical expenses will have to be paid in entirety by the family.

David requires a Dialysis machine to artifically cleanse his blood. The expense for this is \$750 per week. In time a second transplant will be necessary, with expenses at least equal to those encountered to date. The purchase of a Dialysis machine and the necessary supplies is a much cheaper solution, but unfortunately a temporary measure. The cost of the machine and supplies will be approximately \$7,000. For a second transplant to be a success, near term expenses of \$30,000 are expected. These expenses are far above what most of us could expect to prepare for.

I solicit donations for this emergency. Rev. James Carraway of the Asbury United Methodist Church has offered to accept them in the name of David Ham. Such donations are tax deductible when made to the church. Please make your donations to the Asbury United Methodist Church with the David Ham Fund name in the lower left corner of the check and send them to:

David Ham Fund
Asbury United Methodist Church
101 Live Oak Boulevard
Lafayette, Louisiana 70501

progress -

by Jim McMullen

Mississippi Completi	ons - February 19	73	
Exploratory	Oil	Gas	Dry
Eocene	1	0	3
UK	0	0	2
LK	0	0	1
Jurassic	2	0	4
Paleozoic	0	0	1
Development	Oil	Gas	Dry
Eocene	0	0	4
UK	2	1	2
LK	0	0	2
Jurassic	1	0	1
Paleozoic	0	0	0

New Field Discoveries

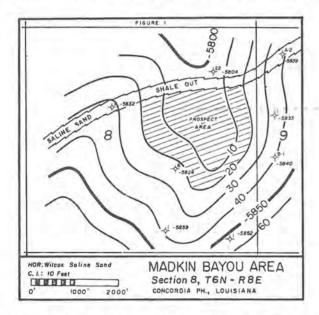
New Field Discoveries	
McNeal 1/28/73	Petro Grande Inc. No. 1 Griffin Sec. 15-2N-11E, Jasper Co. IP/F (14310'-314') Cotton Valley 450 BOPD + 25BWPD 10/64" ch; TP 2900; Grav. 49°
Bisland Bayou 1/21/73	Byrne No. 1 Junkin Accr. 8N-3W, Adams Co. IP/F (5876'-77½') Wilcox 100 BOPD no wtr. 7/64" ch; TP440; Grav. 46°
Hale 2/16/73	American Quasar & Dee Jay Co. & H.B.H. No. 1 Evans 4-7 Sec. 4-1N-15E, Clarke Co. IP/F (13,172-182') Smackover 1416 BOPD 26/64" ch; TP 325; GOR 214:1 Grav. 32.40

THE WILCOX TWO-WELL PROSPECT

Robert C. Bertolet

The Eocene Wilcox play of Adams, Franklin, and Wilkinson Counties of Mississippi; and Concordia and Catahoula Parishes of Louisiana is a relatively shallow stratigraphic play. Because of low reserves, generally 200,000 to 3,000,000 B.O., most major companies have become inactive in the Wilcox play. However, because of the quick pay-outs, the Wilcox has remained popular with independents and smaller companies. In some parts of the above counties and parishes, well control has become dense. The question frequently arises for the geologist and/or investor: Should I participate in exploring for a two-or three-well prospect? A large prospect, after drilling, may turn out to be only a two-well or 80 acre field. The next point of concern is: Will the field make a profit?

Answering the above questions may be difficult since there are many variables. However, satisfactory answers may exist in studying an example of a two-well field. Assuming you invest in the Wilcox play, would you drill the prospect shown on Figure 1? It is a three-well or 120 acre prospect. Geological control is excellent with a shale-out of the regionally productive Saline Sand (E-5, Jenkins). The chronological order in which the wells were drilled is not exact to make the example more illustrative. There are some negative factors. Closure against the shale-out already has been tested with no shows. The No. 22 well just north of the interpreted shale-out encountered the Saline Sand with no oil show. This condition may cause doubt as to whether the shale-out traverses the structure to form a trap. Also, the nearest Saline Sand



production is six miles west of the prospect. Chances are that you have decided that, although it is a "good-looking" prospect, the risk seems too high. A decision not to drill would have eliminated a profitable venture, the discovery of Madkin Bayou Field (Figure 2).

Madkin Bayou Field is located thirteen miles due west of Natchez, Mississippi, in Section 8-6N-8E, Concordia Parish, Louisiana. The discovery, No. 3 well, had 12 feet of Saline Sand pay (5866-78) on water and flowed 80 BOPD on a 5/64" choke, T.P. 800 pounds. The No. 3 well also had five feet of poor quality pay from 5904-09 on water in the Walker Sand. The north offset, No. 5 well, had seven feet of Saline Sand pay (5811-18) on water, but no Walker pay. This well flowed 60 BOPD on a 5/64" choke, T.P. 750 pounds. The northwest offset, No. 7 well, was dry and was converted to a salt-water disposal well. The oil-water contact for the Saline Pool was established at a subsea depth of -5818 feet. The field was discovered in August, 1964 and the two producers flowed until May, 1968 when pumps were installed on both wells. The No. 5 well was abandoned in March, 1970. The No. 3 well was recompleted to the Walker in May 1970, and abandoned in June, 1971. The No. 3 well made 104,360 B.O. and the No. 5 well made 92,030 B,O.

Madkin Bayou Prospect was 120 acres in size, but resulted in only a two-well field of approximately 70 acres. In spite of the small size of the field, a net profit of \$194,298.05 was realized over a seven year period (Figure 3). It may be argued that often the two-well field is over-drilled, and that even in our example, more dry holes attributed to development would reduce the economics. Looking at it from the positive side, had the example been in Mississippi, the severance tax would have been 21 cents, not 26 cents, per B.O. If there had been a pipeline, at amortization another 15 cents per B.O. would have been realized. A common tank battery situation would have aided the economics. Madkin Bayou Field clearly demonstrates that a two-well Wilcox field, even with a moderate reserve figure of 200,000 B.O., can be an extremely profitable venture.

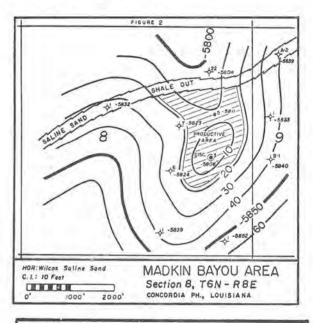


	FIGURE 3
	ECONOMIC DATA
	INCOME
	Price per B.O\$3.47
	. 15 Trucking Charge
	. 26 Severance Tax
	Net: \$3.06
	No. 3 well
	104,360 BO X \$3.06 X .75 (75% lease)= \$239,506,20
	No. 5 well
	92, 030 BO X \$3.06 X .75 (75% lease)= 211, 208.85
	Total \$450,715.05
	EXPENSE
	Drilling costs:
	3 wells to 6200'\$57,750,00
	Completion costs:
	(includes new tubing & casing, pump; used engine,
	tanks, treaters; labor; third party services)
	No. 3 Well\$47,402.00
	No. 5 Well 49,865.00
	Operating costs:
	(includes administration, workovers, surface and
	downhole repairs, ad valorum taxes and salt water
	disposal)
	No. 3 Well\$59, 200.00
	No. 5 Well 42,200.00
_	TOTAL EXPENSE\$256,417.00
	BALANCE SALES OF
	Total Income\$450, 715. 05
	Total Expense 256, 417.00
	Profit\$194,298.05

Acknowledgement is given R.A. Campbell Company for certain production and cost figures.

MISSISSIPPI PETROLEUM COUNCIL MEETING HELD IN JACKSON — FEBRUARY 15

Speakers at the Mississippi Petroleum Council's annual meeting called for the establishment of a national energy policy, proposed an eight-point plan for national energy sufficiency, discussed the impact of the Occupational Safety and Health Act and described the geology of the Mississippi Gulf Coast.

James E. Lee, a native Mississippian and at 51 the youngest president in Gulf Oil Corporation history, told an audience of more than 300 at the Heidelberg Hotel that the United States could be spending 12 to 14 billion dollars to import energy in 1980.

To ensure a safe supply of petroleum for national security while averting a growing drain on future payments balances, Mr. Lee suggested an eight point program to help the United States regain 90 percent self sufficiency in energy production.

Mr. Lee said, "Americans face higher costs for goods and services, a more difficult job in relieving poverty, further pressures to devaluate the dollar and a multiplier effect from devaluation in increasing costs of imported raw materials that is going to be a very severe test of our national spirit and our national self confidence."

He recommended formation of a small, top level policy group within the executive branch of the government to develop a comprehensive energy policy to help overcome these problems.

"The policy should aim," he said, "at creating a balance between energy needs and the environment and should provide for investment programs to find and produce more oil and gas, to develop new coal and uranium mines, to build refineries and nuclear and conventional power stations, and to develop the technology needed to commercialize new sources of energy such as shale oil, breeder reactors and geothermal power."

"The policy group would have no regulatory or administrative powers; its plan would be implemented by legislation passed by the congress and administrative functions would be centered in either the Department of the Interior or in the energy administration of the proposed Department of Natural Resources," he said.

Mr. Lee cited America's lavish use of energy.....six percent of the world's population consuming 35 percent of the world's resources. Petroleum is the major factor in the current energy problem. "We are dependent on imports for 30 percent of our petroleum today and by 1980 it may be 40 to 50 percent."

"By 1980 U.S. domestic production is expected to supply only 13 of an estimated demand of 22 million barrels per day. Import of the remaining nine million barrels, mostly from the Middle East," Mr. Lee said, "may cost from \$12 to \$14 billion a year, a figure comparable to the entire projected balance of payments deficit for the nation in 1972."

In calling for a national energy policy that will start up mechanisms to reverse a reliance on oil imports and its accompanying political and fiscal liabilities, Mr. Lee made these eight points.

- -The U.S. should strive to produce 90 percent of its total energy requirements from domestic sources.
- -A strong private energy industry must be maintained. Government and industry must develop an attitude of mutual cooperation.
- -Federal and state governments should adopt land use policies that would promote orderly energy resource developments.
- -The national energy and environmental needs should be met on a balanced basis.
- -Conservation in the use of energy should be encouraged by both the government and the public.
- -The government should support the development of energy resources abroad by U.S. industry.
- -The government should create the economic framework needed to effect the commercialization of synthetic fuels.
- -Government should support long-range research programs for development of energy resources.

Mr. Lee emphasized the need for cooperative action by government and industry working in concert for the national interest with private industry sharing in the financing of a vigorous research and development program.

Mr. R. C. Granberry, manager, Southeastern Production Division for Exxon Company, U.S.A. called for the establishment of a national energy policy that would "provide....adequate supplies of energy through the encouragement of continued expansion of the domestic industry. Our nation cannot allow itself to become overly dependent on foreign energy sources that could make us vulnerable to disruptions....affect our ability to conduct diplomatic affairs or....create an untenable balance of payments problem," he asserted. Mr. Granberry also called for the maintenance of a strong domestic import control program.

The background, administration and impact of the Occupational Safety and Health Act of 1971—OSHA— on the petroleum industry was discussed by W. T. Askew, corporate vice president, Sun Oil Company, Philadelphia.

Mr. Askew said that the purpose of OSHA—to provide safe and healthful working conditions—was one of the highest priority goals of the country. The people administering the act are sincerely trying to achieve the established goals, he said, but pointed out that some serious problems exist in the administration of the act.

"OSHA," he said, "must improve its performance in interpreting the regulations and providing guidance to business." He also called for OSHA officials and others to have a greater appreciation for the fact that business and industry have a deep concern for the safety of their people.

Dr. M. G. Frey, senior staff geologist, California Company, a Division of the Chevron Oil Company, New Orleans, described the geology of the Mississippi Gulf Coast and the industry's hopes for finding new oil production as a result of offshore lease sales in the area,

personal news-

The Mississippi Geological Society welcomes the following new members:

Gaither M. Randall - Midwest Oil Corporation, 2000 West Loop South, Houston, Texas.

Ron L. Jinkins - Amax, 5050 Westheimer Road, Houston, Texas.

Robert P. Marshall, Jr. has been named Division Geologist for Forest Oil Corporation in New Orleans. Forest Oil has recently opened a new office in New Orleans, having responsibility for expanded company exploration in the southeastern and southern states. The office will be located at 435 Shell Square, New Orleans, Louisiana, 70139. The phone number is 504-524-5849.

Rex Hewitt, consulting geologist in Jackson, has moved his offices from 3100 Old Canton Road to the New ESI Building at the Quarters, on Lakeland Drive.

Daniel E. Herlihy, Consulting Geophysicist in Jackson, has moved from the Woodland Hills Building to new offices in the ESI Building at the Quarters on Lakeland Drive.

Clyde E. Moss—69, independent oil producer in Jackson, died February 22 following an apparent heart attack. Mr. Moss, a Jackson resident since 1944, was instrumental in the discovery of the Tinsley field in Yazoo County, Mississippi.

Callon Petroleum, a Natchez-based company, has acquired, by merger, the Cane Corporation of Natchez and Monroe, Louisiana and Wilcox Petroleum of Natchez. Callon will maintain headquarters at the Callon Building, 300 Franklin Street, P. O. Box 1287, Natchez, Mississippi.

* * * * * * * * *

Set yourself a goal and strive to reach it.

aapg news -

AAPG NATIONAL CONVENTION - 1973

The ability of the oil industry to continue to find giant oil fields in the face of great difficulties is the theme chosen for the annual meeting of the American Association of Petroleum Geologists.

The meeting, titled, "Major Discoveries in Hostile Environments" is scheduled for May 14-16 in Anaheim, California, and will discuss successes in finding oil and gas in many parts of the world in locations where the environments present special challenges. These include the jungles and mountains of South America, the remoteness and harsh climate of the Canadian Arctic, and the formidable marine weather of the North Sea.

In addition to the natural environment, the convention will deal with oil industry problems in changes in the political and economic climate, particularly the challenge of doing business without disrupting

As has been the custom, the meeting will be held jointly with SEPM, and this year at Anaheim the regional section of SEG will also be participating. Meeting with SEG is especially appropriate, for the close association of all technical forces is an absolute must if the industry is to achieve the degree of success required to meet the world's insatiable appetite for energy.

The Annual Convention is also the meeting time of the AAPG House of Delegates and almost all of the AAPG formal committees. These meetings are open to any and all members, and you are most welcome to come see how these affairs are conducted,

The Convention Center at Anaheim is superb, as is the housing. The sight-seeing opportunities before, after or on the way are most inviting, The convention itself will be an educational experience that will be absolutely worth your time and effort.

Six field trips have been planned, each of which will afford an opportunity to visit parts of southern California that exhibit some of the complex and varied geology of the region, and also clearly demonstrate the lack of adverse environmental impact resulting from recent oil field development. Inasmuch as good weather is virtually guaranteed for mid-May, be prepared to enjoy a pleasant outing as well as an informative geologic excursion. Because the trips have been organized to encompass as many facets of earth science as possible, participation will be limited to members of the sponsoring organizations. Moreover, a number of papers in the technical sessions have been prepared specifically as background material for certain aspects of the trips.

Three one-day preconvention trips are scheduled for Sunday, May 13. The first is an AAPG trip to metropolitan oil fields that will include a cruise to a drilling island in Long Beach Harbor and a visit to oil-producing structures along the Newport-Inglewood fault zone, and to subsidence areas in the Wilmington field. The second trip, sponsored by SEPM, will feature both sampling of the now classic Miocene succession at Newport Bay and interpretation of the superbly exposed and sharply contrasting sedimentary facies in Miocene rocks along the sea cliffs near San Juan Capistrano. The third trip, by SEG, is intended to acquaint visitors with the seismicity of the Los Angeles Basin and will include a tour of the area of the 1971 dam failure in the Baldwin

Three far-ranging postconvention trips have been arranged for May 16 through May 18. These will include a two-day AAPG trip to the Santa Barbara area, where the environmental effects of the 1969 oil spill will be reexamined and updated and the geology along the route described. A two-and-a-half day SEPM trip to sedimentary basins in the Transverse Ranges and southern Coast Ranges will emphasize facies relations between nonmarine and marine strata of Eocene to Pliocene age and will concentrate on interpretation of sedimentary environments and the effects of concurrent tectonism. Another two-day AAPG trip is scheduled for the Imperial Basin at the head of the Gulf of California, where geothermal power sources and the tectonic framework of the region will be discussed and highlighted by a visit to the Cerro Prieto power plant in Mexico.

An additional feature of this year's meeting will be the scheduling on Sunday of an educational lecture program, by AAPG, as an 5

introduction to the principles and applications of petroleum geochemistry. The SEPM will also offer a short "refresher" course for geologists. It will cover the major developments in the concepts of turbidity currents and deep water sedimentation which have advanced tremendously in the last ten years. This course will be held Saturday, May 12, at the Disneyland Hotel.

Donn S. Gorsline, Technical Program Coordinator, states that this year there will be a change in the discussion session format. There will be a session Monday through Wednesday from 4:00 to 6:00 P.M. in the Grand Lobby of the Convention Center with displays and discussions each day. All speakers from each day's program also will be invited to stand by in the area for casual discussion. Suitable lubrication sources will be provided.

The only geologist to walk on the moon, Dr. Harrison "Jack" Schmitt, will be a featured speaker at the annual convention.

Schmitt, a long-time member of AAPG, was a member of the three-man crew of Apollo 17 which made a 300-hour flight to the moon December 6-19, 1972. He was pilot of the lunar module "Challenger" and spent 22 hours exploring the moon's surface with fellow astronaut Eugene Cernan, Commander of the mission.

The geologist-astronaut will speak at the All Convention Luncheon on Tuesday, May 15, at which time he will be given a special AAPG award and plaque for Lunar Geological Exploration. He will discuss his observations of the moon's geology and its contributions to a better understanding of how our earth was formed.

Schmitt, whose hometown is Silver City, N. M. is a 1957 graduate of California Institute of Technology and has a Ph.D. in geology from Harvard. He was named a scientist-astronaut by NASA in 1965 and instructed other astronauts in lunar navigation, geology, and feature recognition. Prior to joining the Manned Spacecraft Center, Schmitt was on the staff of the Astrogeology Center of the U.S. Geological Survey at Flagstaff, Arizona, engaged in photo and telescopic mapping of the moon.

More than 3,000 persons are expected at the meeting, which will attract earth scientists from all over the world. Members and guests are urged to complete the Advance Registration Card. Your badge and welcome envelope will be awaiting your arrival at the convention, and time spent at the registration desk will be reduced to a minimum.

AAPG TREASURER NAMED

Edd R. Turner, Jr., Offshore Manager for Getty Oil Co., Houston, has been named Treasurer of the American Association of Petroleum Geologists.

Turner holds a geology degree from the University of Texas and has served in the exploration departments of Union Producing Co., Humble Oil & Refining Co., and Tidewater Oil Co. He was General Chairman of the AAPG Convention in Houston in 1971. He succeeds Fred A. Dix, Jr., formerly with Mobil Oil Corp., Houston, who resigned to become Executive Director of AAPG in Tulsa earlier this year.

OFFSHORE TECHNOLOGY CONFERENCE

The 1973 Offshore Technology Conference is scheduled for April 30-May 2, 1973, at the Astrohall in Houston, Texas. An excellent technical program is scheduled. Although the talks are primarily "offshore" in character, there will be many that have onshore application as well. All AAPG members are urged to attend. When registering, check your application form as an AAPG member!

NEW AAPG PUBLICATIONS - MEMOIR 18

Memoir 18, "Underground Waste Management And Environmental Implications", is a compilation of the proceedings of the 1st Symposium on Underground Waste Management and Environmental Implications (1971). The book is edited by T.D, Cook and contains thirty-six papers with discussion. The price is \$25,00 to nonmembers and \$20.00 to members. Orders will be accepted by The American Association of Petroleum Geologists, P. O. Box 979, Tulsa, Oklahoma

EASTERN SECTION - AAPG EAST COAST OFFSHORE SYMPOSIUM

The Eastern Section, American Association of Petroleum Geologists will hold an East Coast Offshore Symposium in Atlantic City, New Jersey, April 23-25, 1973. The two days of technical sessions will cover offshore Canada, and papers on offshore United States, from Baffin Bay to the Bahamas.

The headquarters for the Symposium will be Haddon Hall, where all functions will be held, Registration will be in the Pennsylvania Room, Haddon Hall on Monday, April 23rd, 12:00 noon to 8:00 p.m., and Tuesday, April 24th from 8:00 a.m. to 4:00 p.m. The registration fee is \$15,00. Each registrant should arrange for his own hotel reservation by writing directly to the Chalfonte-Haddon Hall, Atlantic City, New Jersey 08404.

NEWS FROM OTHER SOCIETIES

The Rocky Mountain Association of Geologists has supplied MGS with a copy of their current official publication list. Mississippi Geological Society members interested in the list may contact the Bulletin editor or they may get both this list and an index of The Mountain Geologist back issues by writing or phoning

RMAG Office 416 C.A. Johnson Building Denver, Colorado 80202 Telephone (303) 573-8621

OKLAHOMA CITY GEOLOGICAL SOCIETY FIELD TRIP

The Oklahoma City Geological Society has sponsored a field trip, "Genesis and Geometry of Sandstones" on March 22-24, 1973. This field-oriented seminar emphasized criteria for recognition of depositional environments and the determination of sandstone trends.

Eastern Oklahoma with its excellent, well-exposed crops of Permian and Pennsylvanian sandstones which were deposited on an alluvial-deltaic-marine environment was the study area.

Your editor received the information on this trip too late for publication in the March issue of the MGS Bulletin; however, we bring it to your attention now in order that interested members may inquire about the availability of guidebooks. Members may write direct to:

Steve Garrity Continuing Education Chairman, O.C.G.S. 1020 Cravens Building Oklahoma City, Oklahoma 73102 405 / 239-2561

SOCIETY OF PROFESSIONAL **WELL LOG ANALYSTS**

The SPWLA have published a new revised edition of the "Reference Handbook of Selected Formation Evaluation Tools". This 46 page handbook briefly discusses electrical radioactivity, elastic wave (acoustic), and mechanical type well logs, as well as wireline coring and testing equipment. Under each type log will be trade name, operating principle, results in common bore hole fluids, dimensions and ratings. The price is \$2.50 per copy plus handling charges and postage (50 cents). Orders should be addressed to SPWLA, P. O. Box 52138, Lafayette, Louisiana 70501.

> WILBUR H. KNIGHT Consulting Geologist

1020 First Nat'l Bank Bldg.

P. O. Box 10553

Jackson, Miss. - 355-1528

R. E. DICK LEE AND ASSOCIATES

Geophysical Assistance P. O. Box 5165 F.S.

Jackson, Miss. 39216 601 - 982 - 0272

M. D. MYERS

Consulting Geologist

Phone 355-3536

Jackson, Mississippi 39209

MISSISSIPPI GEOLOGICAL SOCIETY NEWS BULLETIN VOL, XX, NO. 7, MARCH, 1973

ERRATA

Page 4, under "Black Warrior" left column, under item (5), 4th line. (T12S-R15W, Lamar County, Alabama) should read: (6) East Detroit Field (T12S-R15W, Lamar County, Alabama.)

25TH INTERNATIONAL GEOLOGICAL CONGRESS AUSTRALIA - 1976

Preliminary Announcement

The 25th International Geological Congress will be held in Sydney from 16 to 25 August, 1976, under the sponsorship of the Australian Academy of Science and The Geological Society of Australia.

Pre-and post-Congress excursions are being arranged throughout Australia, and the Geologists of New Zealand and of Papua New Guinea have also agreed to organize excursions in association with the Congress.

The Organizing Committee is anxious to establish a distribution list for the First Circular, which will be available in October, 1973. It will be distributed automatically to those whose names and addresses appear in the List of Registrants for the 24th Congress 1972, and to major geological institutions.

UNIVERSITY OF HOUSTON GEOLOGY FOUNDATION -SHORT COURSE

A short course in Applied Geophysics for Geologists will be held in Houston for the two-week period from May 21 to June 1, 1973. It will be the second course with this title to be sponsored by the University of Houston Geology Foundation, the first having been given in May,

The objective of this course is to give exploration geologists, primarily in the oil industry, an understanding of and familiarity with geophysics that will enable them to use it more effectively in their work. The lecturers are all well known for their contributions in the area of geophysics about which they will speak, and for their extensive experience in presenting technical material to non-specialists in their fields.

A brochure on this course, giving all pertinent details may be obtained from Milton B. Dobrin, Geology Department, University of Houston, Cullen Blvd., Houston, Texas 77004.

MISSISSIPPI GEOLOGICAL SURVEY **BULLETIN 116**

The Mississippi Geological Survey has announced the release of Bulletin 116, Smith County Geology and Mineral Resources.

This is the latest in a series of comprehensive investigations of the mineral resources of Mississippi's counties. This Bulletin contains discussions of the surface geology, subsurface structure, economic geology, ground water and ceramic test data.

Bulletin 116 may be purchased from the Mississippi Geological Survey Office for \$3,00 per copy. When ordering by mail add 25 cents for the first copy and 10 cents for each additional copy. Address orders to Mississippi Geological Survey, P. O. Box 4915, Jackson, Mississippi.

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Jackson, Mississippi 39205 101 Milner Building (601) 352-8326

H. E. KARGES

Consulting Geologist

1812 Capital Towers 352-0972

P. O. Box 1635 Jackson, Miss. 39205

MORTON M. PHILLIPS

Petroleum Geologist

902-G Milner Bldg. - Ph. 355-3364

Jackson, Miss. 39201

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Geophysical Consultant

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Laurel, Miss. 601-428 1466

Lafayette, La. 318-233-1814

DANIEL E. HERLIHY Consulting Geophysicist

(601) 982-5412

Suite 402 ESI Bldg.

Jackson, Mississippi 39216

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Geological and Petroleum Consultants 424 Whitney Bank Bldg. New Orleans, La. 70130 581-6527

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Oil Operator

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1408 Capital Towers, Jackson, Miss.

948-4128

R. W. (Bob) Graham

T. C. Rader

L. E. WALTER, JR.

Consulting Geologist

FLORIDA GAS EXPLORATION CO. INC.

708 Standard Life Building Jackson, Mississippi 39201

Office 948-5169 Residence 982-4293

1444 Capital Towers

P. O. Box 2212

969-9111

Jackson, Mississippi

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A Seismic Computing Corp, Subsidiary

P. O. Box 2669

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P. O. Box 3609

Jackson, Miss.

355-1542

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Box 936, Jackson, Mississippi

354-2513

Gulf Coast Drilling & Exploration

CENTRAL OIL COMPANY

P. O. Box 2097

Laurel, Mississippi 39440

SCHLUMBERGER WELL SERVICES

Jackson, Mississippi

Phone 352-8589

HILTON L. LADNER Petroleum Geologist 903 FNB Building 354-3616 Jackson, Mississippi G. W. GULMON & ASSOCIATES Petroleum Geologists Natchez, Mississippi H. E. Hansen, Dallas A. T. Ricci, Jr., Natchez TRIAD OIL & GAS CO., INC. Oil Property Management 1290 Petroleum Bldg. 355-9693 Jackson, Mississippi MEYERS-LASHER, INC. K. B. Keary, Jr. - SE States Representative 439 W. Northside Dr. Jackson, Miss. 39206 Phone 362-4895 MONCRIEF OIL INTERESTS William E. Linn 5725 Ridgewood Road (601) 956-4418 Jackson, Miss. 39211 SOUTHERN NATURAL GAS CO. P. O. Box 1513 Houston, Texas Donald R. Scherer, Dist. Geologist 622-7270 SECAN OIL COMPANY Vidalia, La. Natchez, Miss. New Orleans, La. 445-5634 529-1255 366-5846 P. O. Box 1246 - Natchez, Mississippi PAUL ANTHONY RADZEWICZ Oil Producer 840 Deposit Guaranty Bldg. 355-4549 Jackson, Miss. 39201 RIDGWAYS 103 E. Pearl Street 355-4751 Jackson, Mississippi DAVID K. BROOKS 660 Milner Building Jackson, Mississippi HERBERT J. FERBER Consulting Geophysicist 5456 Hartsdale Drive 956-4666 Jackson, Mississippi

ROBERT WOMACK, JR. Consulting Geologist 1509 Standard Life Bldg, Jackson, Miss. 39201 Phone 353-4650

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Geologist

P.O. Box 1183 - Natchez, Miss.

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601-582-1192 Hattiesburg, Mississippi

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MISSISSIPPI GEOLOGICAL SOCIETY

P. O. Box 422 Jackson, Mississippi 39205



Mr. Fred F. Mellen 1302 Standard Life Bldg. Jackson, Miss. 39201





mississippi .

eological society

VOL. XXI, NO. 9, MAY, 1973

WALTER VS TWINER FOR PRESIDENT ELECTION AND BARBECUE END YEAR MAY 22

PRESIDENTIAL REVIEW

As the 1972-73 Geological Society year nears its conclusion I would like to say that it has been a pleasure and an honor serving our Society. I would like to thank the other Society officers serving with me for the fine job that they have done and to especially thank them for the help that they have given me in the performance of my duties. Also to the unsung heroes, who have served in such an outstanding manner as chairmen of our various committees, I can only say that I am especially appreciative of your outstanding help. Without your performance our Society could not function.

I believe that we have had a reasonably good year in spite of the customary delays that are usually experienced in our projects. Buddy Twiner, who so graciously assumed the chairmanship of the Jurassic Cross-Section Study Committee after Will Knight's resignation, reports that five of the eight sections are complete and in the hands of the draftsman. The other three sections are essentially complete and can be placed in line for drafting by the time the first five are complete. This should mean that this phase of the project will be complete and ready for sale by the beginning of our next business year.

We lost our treasurer, Joe Franklin, during the middle of the year. Larry Walter willingly stepped in and again assumed the job in a very creditable manner. He reports that sales have been quite satisfactory during the current year and that we are still on a solid foundation financially. Also that our membership remains rather high in spite of many major companies having moved out of Jackson. His report is included as part of this Bulletin Issue.

Our resolution in support of a new building for the Mississippi Geological Survey is currently being circulated in counterparts among our members for their signatures. John Lancaster has returned the copy from New Orleans and Alan Jackson has returned the copy from Hattiesburg, Hopefully all copies will soon be ready for presentation to the proper authorities.

In closing I again express my appreciation to the members, officers and committee chairmen. I urge everyone to attend the upcoming election and barbecue and to lend their wholehearted support to those soon to be selected to conduct business on behalf of our Society during the coming year.

—Charles Barton

MISSISSIPPI GEOLOGICAL SOCIETY CALENDAR

MAY 22 Election & Barbecue – Fowler Lodge Doors open 4:30 p.m. – Dinner 6:30 p.m.

JUNE 1 Doodlebuggers Open - Family Pienic Tee off 8:30 a.m. - 12:00 noon Pienic - 3:30 p.m.

FOR RESERVATIONS TO THE MAY 22 MEETING, CALL T. C. RADER'S OFFICE BY NOON MONDAY, MAY 21, PHONE 948-4128.

ELECTION-BARBECUE AT FOWLER LODGE

Election of 1973-74 officers for the Mississippi Geology Society will be held in conjunction with the annual spring barbecue at the Fowler Buick Lodge on the Ross Barnett Reservoir, Tuesday, May 22, 1973. Members unable to attend the barbecue can obtain absentee ballots from Secretary Riley Hagan. The lodge will open at 4:30 p.m. and beer will be available from then until closing. The barbecue will be served at 6:30 p.m. There will be a nominal charge of \$2.50 per person. Reservations are a requisite and should be made by calling T. C. Rader's office at 948-4128 as soon as possible, but no later than noon, Monday, May 21.

Those MGS members who attended the barbecue last fall will be delighted to know that the Halliburton crew will be "mixing" again, and it won't be cement! T. C. Rader will supervise the wedding of meat with sauce over glowing coals and his side kick, J. C. (Daddy-O) Phillips will have his magic "Black Kettle" on the fire cooking his famous "Oil Field Biscuits". The menu will be as follows:

Hors' doeuvres - barbecued sausages Meats: barbecued chicken, ribs and ham steaks Vegetables: barbecued beans, potato salad Hot Biscuits - olives - pickles, etc. BEER - coffee

Regulations require that a catering service be employed for all social functions serving food at the lodge. We therefore will have Davy Jones Locker personnel there as Pit Engineers, and Dispensing Technicians.

Should there perchance be an MGS geologist who missed the first Halliburton Fiesta, a rare second opportunity presents itself on May 22, for those who love to overeat. I understand that the "Peanut Man" plans to drop in and sprinkle a few parched goobers among the Sud Soakers. Don't forget, make reservations early and bring a Bon Appetit!

A Nominating Committee headed by Kevin Cahill has selected the following list of candidates for office in the Mississippi Geological Society during 1973-74. Brief biographies and pictures of the candidates are shown on the following pages to help voters select the candidate of their choice. The nominees are: for President, Larry Walters and Buddy Twiner; for First Vice-President, David Cate versus W. E. (Gene) Taylor; for Second Vice-President, John Paxton and Harry Fritz; for Treasurer, John Myers and John Griebas; and for Secretary, Bill Morrow versus Elwood M. Ruhl.



MISSISSIPPI GEOLOGICAL SOCIETY

	OFFICERS	
Charles Barton James Twiner Dean Kebert Riley Hagan, Jr. Larry Walter Larry Boland	President 1st Vice President 2nd Vice President Secretary Treasurer Past President REPRESENTATIVES	Am-Southwest Corp. Union Oil of Calif. Victor P, Smith Clement & Stover Consultant Harkins & Co.
Kevin Cahill Howard Samsel Roy Jindra	AAPG House of Delegates AAPG House of Delegates GCAGS NEWS BULLETIN STAFF	
Harry Fritz Paul Day Jim McMullen	Editor Advertising Mgr. Statistics	Gulf Oil Co. James B. Furrh Chevron
PRI	NTED IN JACKSON, MISSIS	SSIPPI

from the editor

State Oil & Gas Board - State of Mississippi, Statutes, Rules of Procedure, Statewide Rules and Regulations.

RULE 24. Well Logs

(a) Copies of electric surveys or logs or radio-active surveys or logs, except such surveys or logs obtained on stratigraphic tests, shall be filed with the Board within thirty (30) days, with Form 3, provided, however that such electric logs filed with the Board shall not be sold by the Board nor shall the Board permit copies thereof to be made by or for the use of any party who is not employed by the Board.

The above rule, stated in part, was so worded prior to 1970. During the late sixties and early seventies the initiation of the Jurassic play in Mississippi precipitated many deep tests. Operators filed their electric logs with the Board as required, many of them doing so without requesting confidential status; however, these logs were seldom released to commercial reproduction service companies. Interested geologists could study the logs at the State Oil & Gas Board office, but they could not reproduce them nor remove them from the premises. The ruling proved to be a hardship and many felt that it needed revision.

The Mississippi Chapter of the American Institute of Professional Geologists asked for and received an executive hearing with the Board. Application was filed to amend Rule 24. The notice of the hearing was properly advertised and the hearing held whereby the Petition of Harold E. Karges and the A.I.P.G. for amendment to Statewide Rule 24 was proposed. Upon oral and documentary evidence introduced, the Board found that Rule 24 should be amended. The Rule now reads in part:

Rule 24. Well Logs.

(c) At the expiration of time in which any log or logs shall be held confidential by the Board as provided under paragraph (a) or (b) above, said log or logs shall be placed in the open files of the Board and any party or firm shall have the right to examine and/or reproduce copies of said logs by photography or other means not injurious to said records, subject to the provisions that before any person or firm shall remove any log or logs from the Board office for purposes of photography or reproducing the same, he or it shall first obtain written approval from the Supervisor and shall comply with the terms and conditions as may be established by the Board, including the giving of a surety bond in such amount or amounts as may be fixed by the Board.

The task was accomplished. The Board was responsive to rectifying an inequity. A job well done by both the Board and the A.I.P.G..

We should now be aware that the Supervisor for the Board must face the administration of that rule. He has in the past been as fair and cooperative as possible. There are abuses. . . .

 Some logs are missing from the files, unaccounted for by staff members.

- Logs are removed from the Board office without being checked out.
- (3) Logs are kept out longer than the alloted time required for reproduction and are returned only after considerable prompting by staff members,

Let us acknowledge our good fortune and protect our privileges by:

- When using logs in the Board office, remove them from the files and return them to the files properly.
- (2) Properly check out all logs when removing them from the premises for reproduction purposes, and return them the same day.
- (3) Take care not to cut, tear or mark the logs in any way.

Mr. Quincy Hodges, Supervisor of the State Oil and Gas Board, suggests that the Presidents of the American Institute of Professional Geologists, Mississippi Section, and the Mississippi Geological Society meet with him to discuss and perhaps work out a remedial solution. I would recommend that this be done. An ounce of prevention is worth a pound of cure. I would hate to see the Rule revert back to its old form. How about you?

TREASURER'S REPORT MISSISSIPPI GEOLOGICAL SOCIETY June 1, 1972 to April 1, 1973

Income

Savings Withdrawal	\$1,500.00
Bulletin Advertising	1,800.00
Publications	1,837.00
Meetings Income	3,118,16
Dues Collected	1,821.00
Contributions	25.00
Credit received for forged check	64,38
장이 있는데 그렇게 그 아이들은 이 없어요요 하다 아니다.	

Total Income

\$10,165,54

Expenses

Tota

0011303		
Publication costs & reproduct	ion \$2,169.52	
Meeting Expenses	3,593.18	
Secretarial Services	602.34	
Postage	379.40	
Office Supplies	123.87	
Storage & Insurance	129.56	
Speaker Expense	148.45	
Equipment Rental	41.43	
Auditing	50.00	
Bank Charges	19.78	
G,C,A,G,S, & A,A,P,G.	311,35	
Scholarships	205.00	
Flowers	48.27	
Projection Purchase	105.00	
Box Rent	14.40	
Savings Deposit	1,000.00	
al Expense		\$ 8,955.95
Bank Balance, June 1, 1972	213.11	
Total Deposits	10,165.54	

213,11
10,165.54
10,378.65
8,955.95
\$1,422.70
3,716.64
\$5,139.34

ABSENTEE BALLOTS AVAILABLE

The Bylaws of the Mississippi Geological Society dictate that the election of officers shall be held at the last regular meeting of the Society before the summer recess. This meeting is always the Spring Barbecue held in May. The Bylaws further provide that if any member cannot be present at the election meeting, he may request and obtain an absentee ballot from the Secretary of the Society to be sealed and returned to the Secretary before the election meeting. The Secretary will in turn deliver the sealed ballots to the Election Judges at the meeting. Therefore, if you cannot be present at the May 22 meeting and desire to vote, please contact Secretary Riley Hagan, Jr. in care of the Society address or by phone at 601 - 352-4025 to obtain an absentee ballot.

CANDIDATES FOR PRESIDENT

The duties of the President shall be to preside at all meetings, maintain order, call special meetings subject to the approval of the Board of Directors, appoint all committees, and shall delegate members to represent the Society. He may at his option serve on any committee. He shall, together with the Treasurer, sign all checks, drafts, contracts, and all other obligations of the Society. In the temporary absence of any other officer of the Society, he shall have the power to appoint a member to assume the duties pro tempore.



JAMES W. TWINER

Education: Employment:

1960 B.S. Mississippi State University 1963-68 Chevron Oil Company

1968-72 Skelly Oil Company 1972 - Union Oil of California

Societies:

Jackson Geophysical Society MGS - 1969-70 Projectionist

1969-70 News Bulletin Staff 1970-71 Treasurer

1971-72 2nd Vice-President



LARRY E. WALTER, JR.

Education:

1958 B.S. University of Kansas 1959 M.S. University of Kansas

Employment:

1960-68 Pan American 1968-70 Skelly Oil Company

1970 - Consultant

Societies:

AAPG Jackson Geophysical AIPG MGS - 1970-71 Secretary

1971-72-73 Treasurer

CANDIDATES FOR FIRST VICE-PRESIDENT

Shall assume the office of the President in case of a vacancy from any cause in that office, and shall assume the duties of the President in case of the absence or disability of the latter. He shall be at the disposal of the President for any duty necessary to the proper functioning of the Society.



DAVID CATE

Education: 1960 B.S. University of Arkansas 1962 M.S. University of Arkansas

Employment: 1961-66 Texaco, Inc. 1966-73 Skelly Oil Company

1973 - Florida Gas Exploration Co.

Societies:

AAPG LGS

MGS -1970-71 Associate Editor News Bulletin

1971-72 Editor, News Bulletin



W. E. (Gene) TAYLOR

Education:

B.S. 1950 Indiana University M.S. 1952 Indiana University 1952-67 Union Producing Co.

Employment:

1967-72 Pennzoil - United 1972 - Consulting Geologist AAPG

Societies:

MGS - Past Editor of News Bulletin

CANDIDATES FOR SECOND VICE-PRESIDENT

Shall be responsible for the maintenance and supervision of the various publications of the Society, and shall organize the necessary committees to properly administer the care, maintenance and revision of the publications necessary to providing current information on various subjects of geologic interest and the keeping of records.





HARRY E. FRITZ

Education: Employment:

1950 B.S. Duquesne University

1951-54 Gulf Research & Development Co.

1954 - Gulf Oil Co., U.S.

Societies:

AAPG SEG (National Committee-Continuing

Education, 1971-72) Jackson Geophysical Society

1971-General Chairman - Annual Outing

1971-72 News Bulletin Staff - Advertising

1971 - MGS Representative, Advertising GCAGS

1972-73 Editor, News Bulletin



JOHN T. PAXTON

Education: Employment: 1959 B.S. Mississippi State University 1965-69 Chevron Oil Company

1969-72 Skelly Oil Company

1972 - Lone Star Producing Company MGS - 1972-73 Projectionist

Societies:

CANDIDATES FOR TREASURER

Shall assume the duties of the President in case of the temporary absence of both the President and First Vice President. He, together with the President shall have charge of the financial affairs of the Society. He shall submit an annual report and inventory at the last meeting before the summer recess, and any other special reports upon the request of the President. He shall receive and disburse all monies; however, expenditures in excess of one hundred dollars shall be made only with the approval of the Board of Directors. During the month of August, the Treasurer shall send statements or notices of dues to all members, except honorary members.





JOHN D. MYERS

Education:

1951 B.S. Mississippi State University

1956 M.S. Mississippi State University

Employment: 1956-68 Phillips Petroleum Co.

1968-70 Consulting Geologist 1970 - Placid Oil Company

Societies: AAPG MGS GCAGS - Best Paper Award,

Convention, 1968



PAUL GRIBAS

Education:

1952 B.S. Universtiy of Washington (Seattle)

1954 Graduate School, University of Washington

Employment:

1954-67 Cities Service Oil Co. 1967-71 Consulting Geologist

1971 - Shenandoah Oil Corp.

Societies:

MGS

CANDIDATES FOR SECRETARY

Shall assume the duties of the President in case of the temporary absence of all the other officers, except the Second Vice President. It shall be the duty of the Secretary to fully and permanently record the minutes of all the meetings of the Society and all meetings of the Board of Directors. He shall prepare and distribute by mail not later than October 15 a membership list and a list of committee assignments. It shall be his duty to prepare and keep in his possession at every meeting a copy of the Bylaws with all amendments thereto. He shall be responsible for all secretarial duties connected with affairs of the Society. He shall prepare all ballots and papers necessary to any Society election.



BILL MORROW

1956 B.S. Vanderbilt University Education:

> 1957 M.S. Vanderbilt University 1957-61 Atlantic Refining Company

Employment: 1961-64 Sinclair Oil Company

1964 - Consulting Geologist

Societies: MGS





1954 B.A. Michigan State University Education:

1961 M.S. Michigan State University

1961-71 Chevron Oil Company Employment:

1971 - Southeastern Exploration/Florida Gas

Exploration Co.

MGS Societies:

CANDIDATE FOR AAPG HOUSE OF DELEGATES

AAPG Delegates are elected for two (2) year terms beginning on July 1, following their election. Active AAPG members of the Mississippi Geological Society are asked to vote for one (1) of the following as Delegate for the Society for the 1973-75 term. The duties of the Delegate are: (1) represent his local Society to the AAPG; (2) be familiar with the AAPG Constitution and Bylaws, current policies and programs; (3) keep the leaders of his Society and his alternates informed as to the AAPG's program of activities; (4) process requests from the Executive Committee regarding eligibility of applicants for AAPG membership; (5) process requests from the Board of Certification by the AAPG; (6) attend meetings of Delegates and (7) actively solicit AAPG memberships from eligible geologists.

X. M. FRASCOGNA

Education: B.S. (Geology) L. S. U.

Employment: Micropaleontologist (2 years) and

Subsurface Geologist (10 years) with

Pan American Petroleum Corp.

- Consulting Geologist

MGS SIPES AAPG AIPG Societies:

1961-62 President MGS

1968 Entertainment Chairman GCAGS

1957 Editor MGS Mesozoic-paleozoic Producing Areas of Miss.-Ala.

Past Presient of AIPG

STEWART W. WELCH

Education: University of Wyoming (Army Program)

University of Illinois (Army Program)

1950 B.S. Oklahoma A & M

1950 Portable Seismograph, Inc. Employment:

> 1950-58 U.S. Geol. Survey 1958-65 Shell Oil Company

1965 - Independent in association with

W. Fleming Browning

Societies: MGS AAPG CPG of AAPG

ADS NOW AVAILABLE IN 1973 GCAGS TRANSACTIONS

We again solicit your advertising for the GCAGS "Transactions". The 1973 meeting will be held in Houston, October 24-26, with headquarters in the Shamrock Hilton Hotel. The "Transactions" has become a standard reference for Gulf Coast Geology.

Price schedules covering all size ads and other information can be obtained by contacting the 1973 Advertising Chairman, Randall Fleming, P. O. Box 52310, Houston, Texas 77052, or phone 224-5111.

MILLSAPS SCHEDULES SUMMER COURSE IN EARTH SCIENCES

A special summer course in earth sciences for high school students has been set by the department of geology at Millsaps College.

The five-week session, open to high school juniors, involves the fundamental concepts in the earth sciences including astronomy, meteorology, oceanography, geology, geochemistry, and geophysics. Professor Donald M. Keady will teach the course. Tuition will be \$160.00.

progress

by Jim McMullen

Mississippi Comple	tions - March	h 1973	
Exploratory	Oil	Gas	Dry
Eocene	0	0	3
UK	0	0	2
LK	0	0	4
Jurassic	1	0	5
Paleozoic	0	1	1
Development	Oil	Gas	Dry
Eocene	1	0	1
UK	3	0	3
LK	2	0	0
Jurassic	3	0	1
Paleozoic	0	0	1

New Field Discoveries -

Four Mile Creek 1/7/73

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JACKSON GEOPHYSICAL SOCIETY **1973 OUTING**

IT'S ALMOST HERE!

Mark it in big bold red letters! Friday, June 1st - that's the day for Jackson Geophysical Society's Annual Picnic and Doodlebuggers Open at Brookwood Country Club.

Tee off time is 8:30 a.m. - 12:00 noon. A \$4.00 entry fee provides pro and duffer alike with 18 holes of fine golf and prizes galore, not to mention the golden nectar of the hop flowing in abundance throughout the day. Arrange your own foursome or call Herb Ferber 601-956-4666 for information and assistance.

The picnic, beginning at 3:30 p.m. will include swimming and other festive activities for the whole family. The usual sumptous evening meal, cartoons for the kids, bingo, terrific door prizes, top flight entertainment and dancing will crown a day you won't want to miss!

Plan to come, bring the whole family, invite friends and frolic, revel and regale. This is Jackson's biggie of the year!

Tickets are \$3.50 for adults, and \$2,00 for children, and will be available at local member offices. Call Dick Lee 601-982-0272 for information.

WILBUR H. KNIGHT

Consulting Geologist

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Jackson, Mississippi 39209

MISSISSIPPI GEOLOGICAL SURVEY ENVIRONMENTAL GEOLOGY ATLAS RELEASED

The Mississippi Geological Survey has released the first in an environmental series entitled, Environmental Geology of the Pocahontas, Clinton, Raymond and Brownsville Quadringles, Hinds County, Mississippi, by John W. Green and Michael Bograd. This publication is an atlas-type book containing sections on Topography, Geology, Water Resources, Public Utilities, Recreation and Transportation, Sanitary Land-fills and Land Use: 70 pages, 51 maps in color and 56 figures.

The purpose of this publication is to point out how geology relates to the needs of the people of a particular area and how the science can aid in planning and development. The book should prove useful to persons engaged in land-use planning, groundwater development, waste disposal, construction, environmental protection, geology and civil engineering. It should also be of significant interest to the lay public.

This publication may be ordered from: Mississippi Geological Survey. Post Office Box 4915, Jackson, Mississippi 39216: \$10.00, plus 75 cents postage and handling.

aapg news -

To: Affiliated Society and Section Presidents, AAPG

From: Daniel A. Busch

Re: AAPG Committee Appointments

Gentlemen:

The 1973-74 fiscal year of AAPG activities begins July 1. One of the responsibilities of the President-Elect is to make numerous committee appointments prior to taking office. In making such appointments, it is my desire to:

1. Have a wide geographic spread

2. To appoint an appreciable number of the younger members of our Association.

In order to accomplish these two objectives, I am soliciting your suggestions of names of individuals from your Society or Section who, in your judgement, would be both capable and interested in serving. You might wish to solicit your Executive Board and/or membership at large for suggestions and possible volunteers.

In the enclosed Constitution and Bylaws of the AAPG, you will find a listing of the numerous committees as an aid in designation of preferences for committee service.

This is one of a number of ways to make our national Association truly representative of the membership at large. Committee involvement, also, has been historically a means of maintaining a reservoir of potential officer candidates.

Would you kindly send me your suggestions of names, and possible committee preferences by May 31. Appointments will be made shortly thereafter.

> Sincerely yours. Daniel A. Busch President-Elect

personal news-

Dave Cate, geologist with Skelly Oil Company in Lafayette, Louisiana, has resigned, effective March 26th, to accept a position with Florida Gas Exploration Company in Jackson. Dave was last year's Editor of the MGS Bulletin.

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