

MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

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SEPTEMBER 1996

PRESIDENT'S LETTER

by JACK MOODY

"The summer is past, the fall is upon us and we are yet not saved." When that was written it was a sad heart expressing its disappointment of hope deferred. Our summer is past and fall is soon upon us; cautious rampant optimism is said by some to be the pulse of the remaining oil patch. My personal survey results lean hard on the cautious, but there is some optimism for sure. Could we be so bold as to allow ourselves to hope that we are on the verge of an expanding business cycle? According to the Jofree Corporation (Houston), they expect the 1996 wellhead price to average \$2.24/MMBTU. They see \$2.02/MMBTU for 1997, although a warm winter could bring it to \$1.70/MMBTU. Jofree also predicts \$20.43/bbl. for a 1996 average. With everyone in OPEC cheating on their quotas; without a major supply interruption, the next year or two could see \$17-21/bbl. Another interesting tidbit is that oil service stocks and oil company stocks are again in favor with Wall Street. And to clinch this excuse of optimism, I have heard there is some hiring of geologists going on!

To the business at hand, I would

like to thank a few of the folks who labored in the society's vineyard last year, but have retired. Thanks to Steve Ingram for his efforts as past editor and Rick Ericksen as past secretary. I want to issue a special thanks to our past president, Les Aultman, for bringing the society into the financial black for the first time in many years.

As president this year I hope to build on and expand what Les began. Another goal this year is to increase our membership. Goal 3 is to add value to the monthly bulletin by including information helpful to the membership. My fourth and final goal is to host a Cotton Valley Symposium on May 15, 1997, in conjunction with our Spring Fling, the Geophysical Society's golf tournament, and Larry Baria's Bahamas field trip, which will see the modern Cotton Valley pinnacle reef analogues. We have set our sights high and look forward to the year.

As to the bulletin, we are looking for original prospect maps of ideas that worked. Help us show the humble beginnings, you know, the fulfilling of, "oil is first found in the minds of men". So if you have such pre-discovery maps

we would love to show the world your work. We are also interested in reservoir and sand body isopachs. I believe a lot of people would like to see the nature of the reservoirs we are chasing here in Mississippi and Alabama. Your help in this will be greatly appreciated.

Did you know we have an environmental geology section that meets at noon every other month in the DEQ Commission Hearing Room? Did you know that these bring-your-own-bag lunch affairs are featuring a wide variety of geologic subjects that get real close to what first got you interested in geology to begin with. I personally have enjoyed the casual meetings which discuss different aspects of geology.

For those of you who explore in Alabama, please make a point to meet Don Oltz, the new State Geologist for Alabama. I have known Don for several years and can confidently say the selection committee hit a home run.

I hope to see many of you this September 10 at our Fall Barbeque. This year we are back at the Reservoir Lodge.

Mississippi Geological Society 1996 - 1997

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Engineering/Environmental Committee

The Engineering/Environmental Committee meets every other month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting will be on September 17, and the speaker will be Dr. David Patrick of the Geology Department at USM.

SEPTEMBER 17 MEETING

Natural Resources Investigations at Camp Shelby and Camp McCain

This presentation will describe the role of the Department of Geology at the University of Southern Mississippi (USM) in Natural resource studies conducted for the Mississippi Army National Guard at the Guard's training sites at Camp Shelby and Camp McCain. this work is being conducted under the auspices of the Integrated Training Area Management (ITAM) program developed by the U.S. Army Corps of Engineers. The objectives of this program are to assist both military trainers and resource managers in the protection and conservation of natural resources on military installations. The ITAM areas in which we are working consist of 1) Upland and channel erosion; 2)

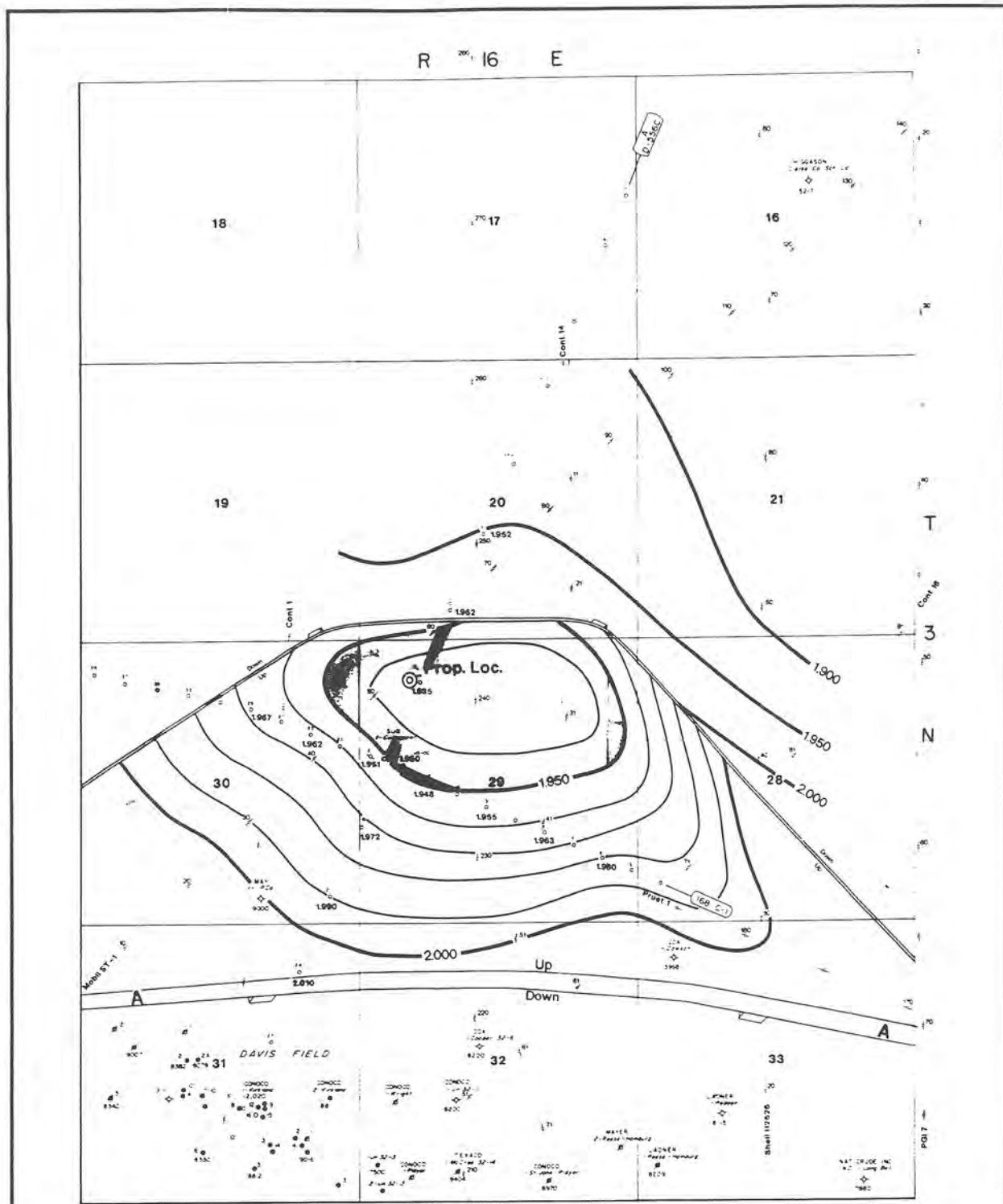
Wetlands; and 3) Geographic information systems (GIS). Other ITAM program elements involving life-science and cultural resource issues are being addressed by other USM departments as other state institutions and agencies. Our erosion studies consist of conducting sediment monitoring on principal streams draining critical areas on the training sites, field study of channel morphology, the examination of historic aerial imagery to understand long-term changes, and conducting periodic aerial video and photographic monitoring to identify short-term changes in the landscape. The related wetland studies involve identification delineation, and

field marking of wetlands and wetland crossings for jurisdictional purposes, and delineating and marketing intermittent and perennial streams (with or without associated wetlands). We are also identifying and marking terrain having slopes in excess of ten percent. In regard to GIS, we are assisting the Guard in the selection, procurement, and set up of hardware and software, and we are applying GIS in the integration, analysis, and presentation of ITAM data. We also have prepared Internet Web pages for Camp Shelby and Camp McCain in which we describe a number of these natural resource issues.



MGS FALL BBQ

Where: Reservoir Lodge
 When: Tuesday, Sept. 10
 4:30 p.m. until
 (Dinner at 6:00 p.m.)
 What: Gridley's Chicken,
 Pork and Brisket
 Why: Rumors & Fellowship
 Spouses are welcome
 How
 Much: \$10.00 per person
 \$5.00 students



ORIGINAL PROSPECT MAP

Peachtree Field in Clarke County was the brainchild of Marvin Oxley, an independent here in Jackson. The field began production in April, 1993, from the Cotton Valley Formation. The Oil and Gas Board's 1995 annual shows 2 wells with a cumulative 197,182 BO, 15,678 BW, and 9,173 MCF. The Oil and Gas Board's January monthly showed the field pumping right along at 5,664 BO and 1,240 BW. Marvin was pushing the northern limits of production with this paleozoic basement structure prospect and it worked! – JACK MOODY

ODYSSEY PETROLEUM COMPANY	
MARVIN L. OXLEY	
REFLECTION SEISMOGRAPH SURVEY	
OF	
PEACHTREE PROSPECT	
CLARKE COUNTY, MISSISSIPPI	
TOP BAY SPRINGS SHALE	
C 10 milliseconds	SCALE 1" = 1000'
B ML Oxley	DATE 3-28-91

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The following data page is a portion of an 8 page core and sample description report contributed by the Energy Section of the Office of Geology. The full report and abbreviation code is available from:

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(601) 961-5500

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Telephone 601-961-5500

File No: 6507
County: Lawrence
Field: Monticello Dome
Operator: Amerada Hess Corp.
Elev.: 313' GL
Casing: 9 5/8" @ 3000', 5 1/2" @ 17,507'

Pages 3
Sec. 25-7N-10E
Loc: NE SE
Fee: #1 Dake
'Total Depth: 17,507'
Perfs. 17,204-270'-Houston

Test: PF 293 BC (CG 48.4°) + 135/MCFG PD Add. Perfs: 16,434'- 17,079 PKr. @ 17,109' 12/64" ch, FTP 2460 #, FCP 275 #, GOR 4600-1

Logged by: Jack Henderson CPG 1360 2-5-96

Comments:

The producing section of the Houston in the subject well is a series of very fine to fine grained sandstones, often silty in or at the top of a bed. Some beds have thin chalky limestones near the top and overlying the sandstone. Most of the sandstones are friable and are disaggregated in many samples and are probably porous in large part. They are usually oil stained, varying from very light tan to medium brown in some beds, to medium gray (asphaltic) in other beds. The sandstones are interbedded with medium to dark red shales, medium to dark gray shales and numerous thin limestones (chalky in part). * The samples start at 9170' and were caught at 30' intervals to 12,600' and at 10' intervals from 12,600' to total depth, 17,507'. A peculiarity of the section is the presence of very small dark red pellets, some are spherical, highly indurated, hard, ironstone-possibly altered siderite.

SAMPLE DESCRIPTIONS

- | | | | |
|----------------|--|------------------|---|
| + 16,200-220' | Sh, lt-M gry, vfm; Sltst, wht, lt gry, tr blk asph residue, Ls, wht, chalky: tr Coal, blk, fibrous | +* 16,550-620' | Sh, lt-m gry, vfm; Sh, red, vfm, vfc: Coal, blk, fibrous; Ss/Sd, AA |
| 16,220-240' | Sltst, lt gry, vfm, vfc, argill, v calc; Sh, AA; tr Ss, lt brn Fn gr, lt o.stn | 16,620-640' | Sh, m-dk gry, vfm, v silty in small %; Sh, lt-m gry, vfm; Ls, wht, chalky- micritic; Ss, AA; Coal, blk, fibrous (LCM?) |
| * 16,240-250' | AA; Ss, lt-M gry, v Fn gr, sl silty, scatt blk asph residue, slow Y cut, Fair DG RR | +* 16,640-650' | Ss/Sd, lt tan, v Fn-Fn gr, ang, poss por, lt tan o stn; Ss, grysh-brn, v Fn gr, V silty asph residue; Sh AA; tr shell frags |
| +* 16,250-340' | Ss, (disagg in pt), lt-dk gry, clear, v Fn-Fn gr, subang, prob por, lt brn o. st., asph resid; tr Coal blk fibrous; tr Sh, M dk red, vfm | 16,650-690' | Sh, m red, vfm; tr Ls, red, micritic, nodular; abund pellets, m-dk red, v small-small, ironstone? |
| 16,340-350' | Sh, M gry, vfm, vfc, silty in pt; Sh, dk gry, vfm, tr Ls, wht-gry, chalky; tr Gyp (wht-blk) speckled | 16,690-700' | AA; tr Sltst, wht, vfm, vfc |
| +* 16,350-380' | Ss/Sd, lt-m gry, lt tan (o. stn), v Fn-Fn gr, por in pt, tr asph residue, no fluor, slow Y cut, Coal, blk, vitr | * 16,700-730' | Sh, m red, vfm, Sltst, wht, buff, lt gry, vfm, tr Ss, lt tan, lt brn, v Fn-Fn gr, silty, lt o stn: Coal, blk, fibrous (LCM?) |
| 16,380-410' | Sh, m red, tr grnsh-gry mottling, vfm, silty in pt: (crushed) tr DY RR | 16,730-740' | AA; tr Ls, lt brn, micritic & chalky, wht in pt |
| 16,410-420' | AA; Ss, wht, lt tan, v Fn gr, silty; tr Ls, wht, lt tan, micritic, foss | +* 16,740-800' | Ss/Sd, wht lt tan, clear, v Fn-Fn gr; lt o stn, some asph residue; Coal, blk, fibrous (LCM?) |
| +* 16,420-460' | Ss/Sd, lt tan- m brn, m gry, v Fn-Fn gr, subang, blk asph resid; Sh, AA; tr v small pellets, red, ironstone (?) | * 16,800-810' | AA; pred Sh, m red, vtm |
| 16,460-470' | Sh, dk red, vfm, silty; Sh, m-d gry, vfm, vfc, silty; tr Coal, blk | * 16,810-840' | Ss/Sd, (disagg), lt tan, wht, v Fn gr, tr Fn gr: spotted lt o stn; Sh, lt-m red, vfm; tr sh, m gry, vfm, v fnly pyritic |
| +* 16,470-480' | Sltst, lt-m gry, vfm, vfc (asph?): tr Ss, lt brn, v Fn gr, silty, lt o stn?-(too small to test); Sh, AA | * 16,840-920' | Ss, wht, v Fn-Fn gr, silty, NP NS; tr Ss/Sd, AA w/lt o stn |
| + 16,480-530' | Ss/Sd, lt-m brn, m-dk brnsh-gry, v Fn-Fn gr, tr M gr, ang-subang, asph residue, lt-dk brn o stn, v slow pale Y cut, weak DY RR | * 16,920-930' | Sh, dk gry, blk, vfm, vfc, scatt v small pyrite xls; Ss/Sd & Coal, AA |
| 16,530-540' | Sh, m-dk gry, vfm, shell frags, Ss, AA; Sh, dk red, vfm, v silty in pt | +* 16,930-950' | Ss/Sd, (disagg), wht, clear, v Fn-Fn gr, tr M gr, asph residue; Ss/Sd, lt brn v Fn-M gr ang: lt o. stn; Sh, dk red, v Fn, silty in pt |
| +* 16,540-550' | Ss/Sd, dk gry (asph residue), lt brn (o stn), v Fn gr, N-P; Coal, blk, earthy (LCM?) | * 16,950-970' | Sh, m-dk gry, tr blk, vfm: Sh, m red-reddish -brn, vfm; Ss/Sd, AA w/lt o stn |
| | | * 16,970-980' | Sd, lt tan, clear, v Fn-Fn gr, silty, ang: lt o stn; Sh, AA |
| | | * 16,980-17,060' | Sd, lt tan, clear, v Fn-Fn gr, ang, lt o stn; Sh, m-d gry, vfm, vfc; Sh, dk red, vfm |
| | | 17,060-130' | AA; Coal, blk, fibrous (LCM?) |

SAMPLE DESCRIPTIONS (continued from page 5)

- * 17,130-140' AA; decrease % Coal; Sh, dk red, dk red-gry mottled, vfm
 - * 17,140-170' Sd, lt tan, clear, v Fn-Fn gr, ang, lt o. stn, no fluor, slow DY cut, Sh, m gry, m reddish-brn, vfm, vfc
 - 17,170-180' Sh, m gry, vfm, vfc, non-calc; Sh m-dk red, vfm, vfc, silty in pt, calc in pt
 - 17,180-190' AA; tr Ls, dull wht, chalky, sl silty/sdy (v Fn gr), tr Ls, lt tan-dk brn mottled, micritic
 - 17,190-200' Sh, AA; tr Ls, AA; Sh, m-dk red, vfm, non-calc
 - +* 17,200-210' Ls, wht-lt gry, chalky, sdy (v Fn gr) in pt; Sltst, lt gry, vfm, vfc; tr Ss, lt gry, lt brn, v Fn-Fn gr ang, asph residue, lt o. stn, slow Y cut, fair DY RR
 - +* 17,210-230' AA; tr Ls, lt gry, chalky; tr pyrite, v Fn xln
 - +* 17,230-250' Ss, lt tan, v Fn-Fn gr, lt o. stn; Ss, lt gry, clear, v Fn-Fn gr, asph residue; mud pellets, v small, hard; Sh & Ls, AA
 - +* 17,250-260' AA, increase % Ss, tr inoc prisms
 - * 17,260-320' Ss/Sd, wht, lt brn spots (o. stn), v Fn gr, tr Fn & M gr, ang, spotted brn o. stn; Sh, m gry, pyritic vfm, v silty in pt; tr Coal (LCM?)
 - 17,320-360' Sh, m gry, vfm; Sh, dk red, tr grn mottling; tr Ls, wht, chalky; Coal, blk, dull (LEM?); Ss/Sd AA
 - * 17,360-370' Ss/sd, lt tan, clear, v Fn-Fn gr, spotted lt brn o. stn; Sh, AA
 - 17,370-400' Sh, m gry, vfm; Sh, dk red, vfm
 - * 17,400-420' Ss, wht, v Fn-Fn gr, hard, NP, tr pyrite xls; Ss/sd, AA w/tr lt brn o. stn Sh, AA
 - 17,420-480' Sh, AA; tr Ls, wht chalky, sl sdy (v Fn gr) in pt; tr Ss, wht, v Fn gr, v silty, v calc
 - * 17,480-507' Sh, m-dk gry, vfm, vfc, v sl calc, splintery; Sh, m-dk red, vfm; tr Ss, wht, v Fn gr, silty, tr lt brn o. stn (cvgs?); a few clusters pyrite (v Fn xln)
- D.T.D. 17,507' Completed sample work: 2-5-96
- Symbols * Live (migrated) oil show
 - Source oil type show (in impermeable rocks Shale, Siltstone, Limestone, etc.)
 + Dead oil shows (i.e., tar, asphalt, gilsonite, etc.)

MISSISSIPPI GEOLOGICAL REGISTRATION TASK FORCE/ADVISORY COMMITTEE NEWS UPDATE - AUGUST, 1996

The Geological Registration Task Force has held five public meetings in Natchez, Jackson, Starkville, Oxford, and Hattiesburg regarding proposed registration of geologists in Mississippi. Two additional informational meetings are scheduled, one at 3:00 PM, August 28th at the Corps of Engineers facility in Vicksburg. The other is scheduled for latter September at an undetermined location in the Gulfport-Biloxi area.

The Committee is soliciting contributions to help defray costs associated with their efforts. MPG/DPA has committed contributions to the Task Force for its registration efforts. To date all expenses incurred have been defrayed by the members of the Committee. The Task Force has opened a checking account for this purpose. If you desire to make a contribution, make your check payable to the "Mississippi Geological Registration Task Force". This is a worthy effort which should repay a small donation several times over if professional geologic registration becomes a reality in Mississippi.

The bill is being reviewed by the

legislative staff and will be returned to the Task Force in September for its final approval before formal submission to the legislature. In order to maintain open dialogue with geologists and other interested parties, please feel free to

contact the Committee chairman, Rick Ericksen at the following address:
 Rick Ericksen, Chairman
 P.O. Box 254
 Ridgeland, MS 39158-0254
 Phone - (601)961-5507

1997 CARBONATE FIELD TRIP OUT ISLANDS, BAHAMAS

In late May and early June, 1997, the Mississippi Geological Society will host a carbonate field trip to the Out Islands of the southern Bahamas. Participants will study pinnacle reefs, fringing reefs, patch reefs, oolite shoals, tidal flats, eolian dunes, beaches, and many other styles of recent carbonate facies and depositional environments. The trip will be structured to present as many Smackover, Cotton Valley, and James Lime analogs to active Gulf Coast exploration trends as possible.

Certainly on a trip to the Bahamas, MGS spouses will also be invited to go along. While the participants are out swimming, wading and hiking each day, the spouses can enjoy beautiful pink sand beaches, island tours and laid back Out Island hospitality.

The anticipated cost of this eight day trip, including round trip airfare from Jackson to Nassau, air charter services between New Providence, Great Exuma and Long Island, hotel, meals, three and one half days of boat rental and all land transportation, will be \$1,750 per participant.

If you have questions about the excursion or want to sign up, contact Larry Baria at 352-5562.

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CASE HISTORY

Extreme overbalancing perforating of the Frisco City Sand Monroe County, Alabama

Spooner Petroleum Company drilled the Eddins 32-5 No.1 well as a development well in the Frisco City Sand of North Frisco City Field. The wellbore encountered the top of the Frisco City Sand at 12,060 feet and penetrated 40 feet of gross sand on top of Basement rock. The top 17 feet of the sand was drilled prior to cutting a core from 12,077 feet through the base of the sand at 12,100 feet. Permeability analysis of the core indicated an average permeability 3.5 md with all but 8 feet having less than 1 md. Microlog analysis yielded three feet of net pay. The core analysis also indicated the core was calcareous.

Due to extremely low permeability of the Frisco City Sand the Extreme Overbalanced Perforating Technique was used. For Extreme Overbalanced Perforating, tubing conveyed guns (TCP) are run to depth on a production packer and spotted across the formation. A fluid compatible with the formation is spotted across the interval to be perforated. Usually no more than 1000 feet of fluid is used to minimize pressure drops due to friction. Nitrogen pressure is applied until a predetermined bottomhole pressure is achieved. At the instant of detonation, the nitrogen pressure drives the completion fluid out the new perforations into the formation at a rate exceeding the formation's ability to accept fluid. The fractures created extend beyond the skin damage to form new paths for formation fluids to flow into the production tubing. If nitrogen pumping is continued, these fractures are extended even farther into the formation. (1)

The completion of the Eddins 32-5 No. 1 was designed using a .72 psi/ft fracture gradient and a desired .4 psi/ft. overbalance. This resulted in a 1.12 psi/ft gradient or a bottomhole pressure of 13,480 psi. Due to the calcareous nature of the Frisco City Sand, 7 1/2% FE acid was used as the completion fluid. It was also necessary to limit the surface pressure to 10,500 psi because of the mechanical limits of the tubing string. This was achieved by maintaining 2500 psi on the casing throughout the job and using 2% KCl water as tail in fluid.

Actual Job Procedure

- 1) Ran 33' of 3 3/8" TCP guns loaded 6SPF with pressure detonator on wireline packer.
- 2) Spotted guns across interval and set packer.
- 3) Ran in hole with tubing and displaced entire tubing volume with nitrogen.
- 4) Sting tubing into packer and released nitrogen to atmosphere to insure tubing was void.
- 5) Spot 250 gals of 7 1/2% FE acid across formation
- 6) Pumped 115,000 SCF nitrogen and 15 bbls of 2% KCl water
- 7) Pressure detonator fired guns with 10,400 psi surface pressure (13,480 psi BHP)
- 8) Displaced KCl water to end of tubing with 8500 SCF nitrogen at 5300 psi.

After rigging down pump equipment the well was allowed to flow back the nitrogen, water, and acid. The initial production rate from the well was 821 BOPD, 1123 MCFD, 0 BWPD, on a 28/64" choke w/645 psi FTP. Please note that the well is a development well and the bottomhole pressure was only 3330 psig compared to the original bottomhole pressure for the reservoir of 5400 psi.

After flow testing the well for 72 hours, a shut-in bottomhole pressure buildup test was conducted. The buildup analysis indicated an effective permeability of 2.4 md for a 189 foot radius of investigation. The skin factor calculated -4.1 indicated a highly stimulated wellbore condition.

Six months after completion the well is flowing 350 BOPD, 540 MCFD, 0 BWPD on a 17/64" choke with 500 psi FTP. The production rate is limited by bottomhole pressure.

Conclusion

Results of the pressure buildup analysis indicate an effective reservoir permeability of 2.4 md as compared to the core analysis permeability of 3.5 md. The effective permeability is a calculated average reservoir permeability which is determined by the buildup analysis. Obviously the core perm is strictly the permeability measured at one particular point in the reservoir. A skin factor of -4.1 is very impressive. This simply means that the permeability in the very near wellbore radius is greater than the formation permeability. Obviously the negative skin is a result of the overbalanced perforating. For the record it is possible in some cases to obtain a negative skin factor by conventional underbalanced perforating. Based on all of the data for the Eddin's 32- 5 No. 1, ie. core analysis, mudlog, and open hole logs, the well appeared marginal at best. However, the results of the Extreme Overbalanced Perforating procedure yielded very impressive results. The technique appears to be very useful in achieving and maintaining high production rates in tight Frisco City Sands.

- 1) Advance Completion Specialists, Inc.
- 2) The Extreme Overbalance Perforating method was pioneered by Oryx Energy.

Prepared by:
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Spooner Petroleum Company
Jackson, Mississippi

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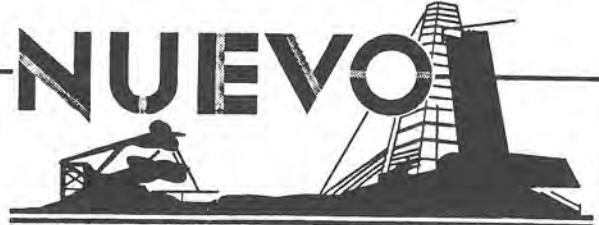
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MISSISSIPPI GEOLOGICAL SOCIETY TREASURER'S REPORT

OPERATING YEAR ENDING MAY 31, 1996

Revenues:

Membership Dues:	\$	3,600.00
Monthly Luncheon Receipts:	\$	3,470.00
Spring Fish Fry Receipts:	\$	500.00
Spring Fish Fry Donations:	\$	275.00
Fall Fish Fry Receipts:	\$	440.00
Fall Fish Fry Donations:	\$	675.00
Christmas Party Receipts:	\$	850.00
Christmas Drink Ticket Receipts	\$	315.00
Advertisement:	\$	3,855.00
Postal Refund:	\$	291.49
Red Book Sales (Earth Enterprises):	\$	2,745.00
TOTAL:	\$	17,016.49

Speaker Plaques:	\$	122.57
Monthly Luncheons:	\$	3,750.21
Bulk Mail Account:	\$	300.00
Stamps for Advertising Mailout:	\$	32.00
Ad for Red Book:	\$	180.00
Christmas Party:	\$	1,179.19
Post Office Box Rental:	\$	40.00
Income Tax Preparation (1993/94 -1994/95)	\$	350.00

TOTAL \$ 12,782.86

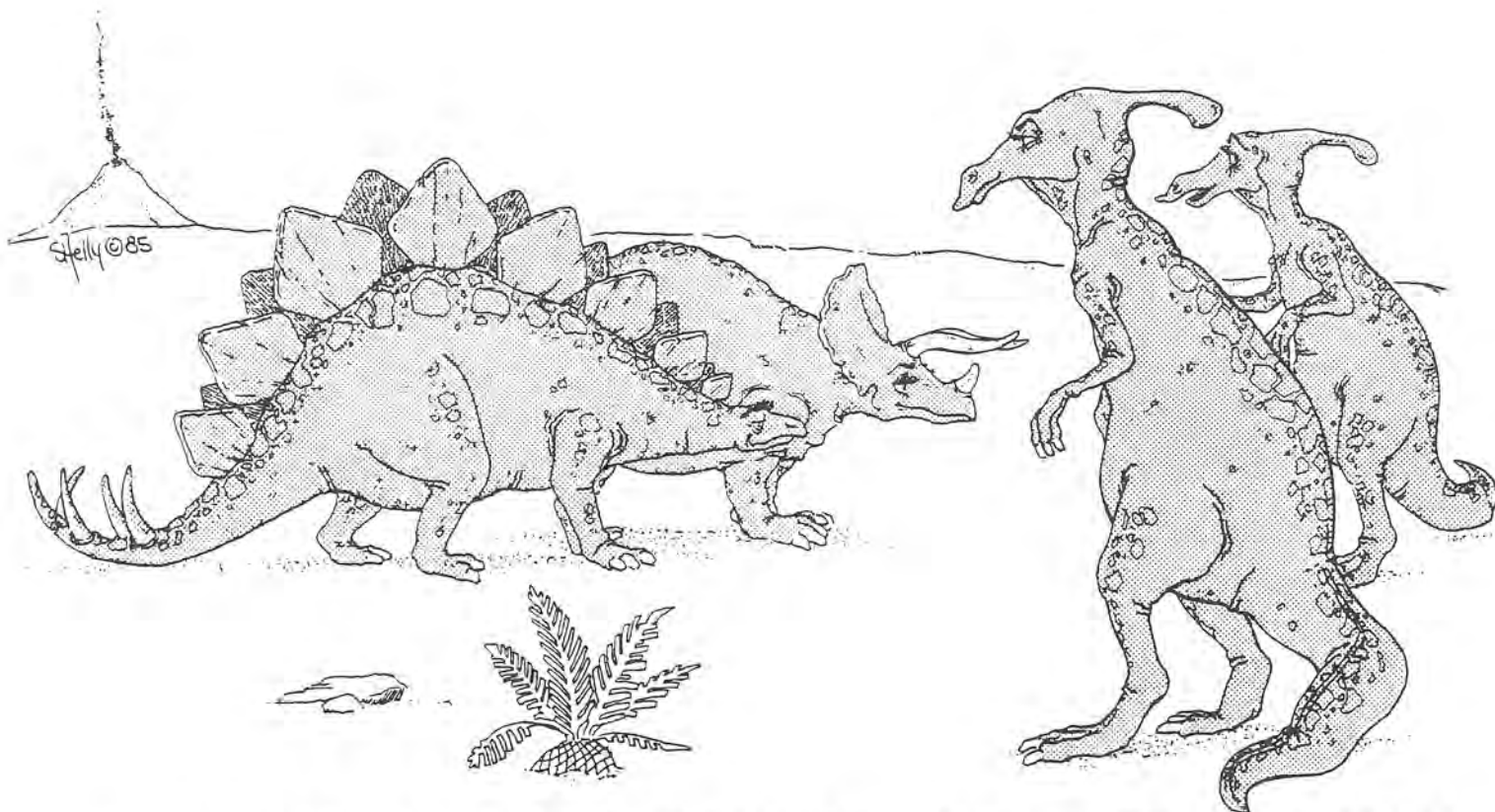
Revenues:	\$	17,016.49
Expenditures:	\$	12,782.86
Net Operating Gain:	\$+	4,233.63

Gross Operating Expenses:

Bank Service Charge:	\$	133.92
Label List:	\$	289.90
Bulletin + Membership List:	\$	2,957.02
Officer Luncheons:	\$	276.91
Red Book Drafting & Publication:	\$	1,204.94
Fall Fish Fry:	\$	970.01
Spring Fish Fry:	\$	996.19

Checking Account Balance 5/95:	\$	554.18
Savings Account Balance 5/95:	\$	10,721.59
Cash Balance:	\$	11,275.77
Checking Account Balance 5/96:	\$	654.18
Savings Account Balance 5/96:	\$	14,855.22
Cash Balance:	\$	15,509.40

/s/ DAVID HANCOCK



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(PLEASE PRINT)

Name _____ Title _____

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Office Address (city, state, zip) _____

Home Address (city, state, zip) _____ Phone No. _____

College/University attended: _____ Degree _____ Major subject _____

Current Specialty _____ Sponsors (2) _____

Applicant's Signature _____ Date _____

I am interested / am willing to serve:

as an officer Yes _____ No _____

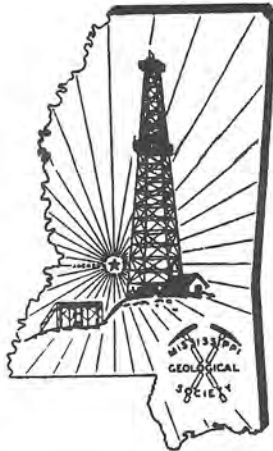
on a special committee Yes _____ No _____

Committee Name _____

MISSISSIPPI GEOLOGICAL SOCIETY
P.O. BOX 422
JACKSON, MISSISSIPPI 39205-0422



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53391-55 NORTH, STE 27
JACKSON, MS 39206



MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

VOLUME 45

NUMBER 2

OCTOBER 1996

PRESIDENT'S LETTER

by JACK MOODY

Our fall barbecue out on the reservoir was held on September 10, and we had one of the larger turnouts in a while. We all need to thank the sponsors of the event. They were Western Atlas, Digicon / GFS, Hughes & Rawls, Location Sample Service, Pruet Oil, Seismic Exchange, Spooner Petroleum, Browning & Welch, Moon & Hines, and the Jackson Log Library. Without the support of these companies things would get pretty tough.

I hope all who attended had a good time. If I failed to make any welcome, please attribute that to my being so concerned for the event. I think I enjoyed it about as much as going to one of my kids recitals. Once it was over, and all went reasonably well, I began to relax.

In the future I hope we can find a way to have more people stick around after dinner and share experiences and ideas about the business. There were a couple of die hards who did that this

time. I wish there had been more and that the students who came had joined in. In that setting, I think the students could really benefit from the lessons we have learned in life and business. Oh my, the lessons we have learned!

In my last letter I failed to thank David Hancock for his service as last year's treasurer, thanks David.

Larry Baria is busy trying to sell a nice Hosston deal and line up speakers for the luncheon meetings at the Capitol Club. Plan to attend the October 8th meeting.

While you are marking your calendar, why not mark May 15, 1997 so you'll be at our Cotton Valley symposium here in Jackson.

Let me take one more moment of your time. There is a proposal floating about which I believe should be of great interest to exploration and development drilling in the state. That proposal consists of the Mississippi Office of Geology having two

geologists working full time on locating and copying all information relative to wells drilled in Mississippi. This information would ultimately be made available in electronic format, i.e. CD Rom, disk, or internet. At the same time, a state oil and gas geographical information system would be developed. This effort, if it comes about, will greatly enhance the industry's ability to explore and drill in Mississippi. In order for this to happen, it will require industry support. Get in touch with any of the Society's officers.

The year is off to a good start. With your help and support we'll all be able to look back at this year as a good one and use it as a stepping stone for better things to come. Hope to see you.

DON'T BE A DEADBEAT GEOLOGIST!

It's now membership renewal time. Please use the form on the back!

Mississippi Geological Society 1996 - 1997

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Engineering/ Environmental Committee

The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting will be on November 19 and the speaker will be Dr. Greg Stone from LSU.

BUSINESS MEETING LUNCHEON SCHEDULE

November 12, 1996	March 11, 1997
December 10, 1996	April 8, 1997
January 14, 1997	May 13, 1997
February 11, 1997	

BUSINESS MEETING LUNCHEON

11:30 A.M. October 8, 1996

Capitol City Petroleum Club, Smackover Room

Maurice Birdwell, Speaker

Maurice Birdwell - Hunt Petroleum Corp., Shreveport

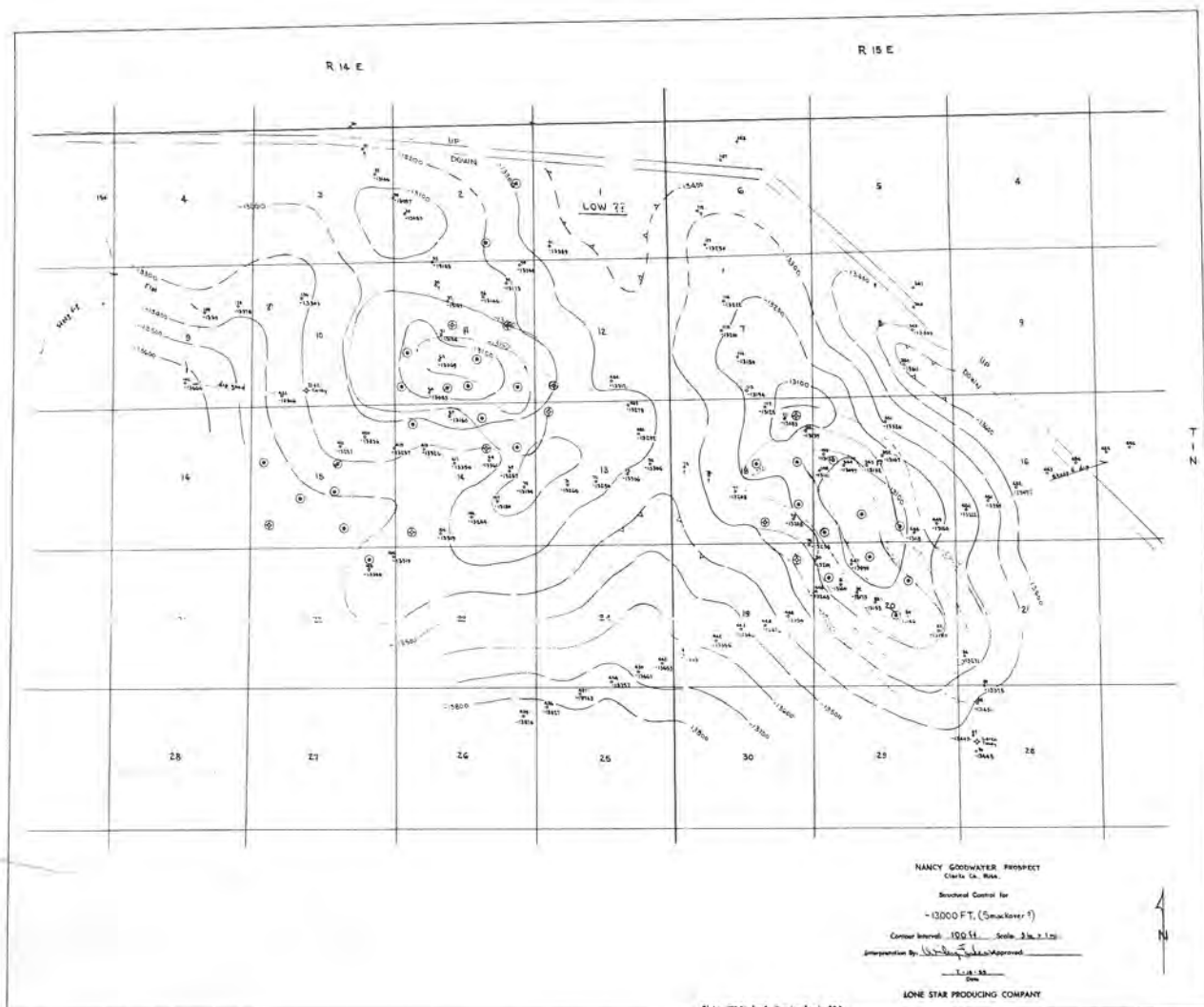
The recent and expanded Lower Cretaceous development at North Tinsley Field, Yazoo County, Mississippi.

Three wells in the Rodessa and Hosston Formations, completed from multiple play sands, are yielding in excess of 8 MMCFG/D and 400 BC/D with flowing tubing pressure between 2,700# and 3,200 #. This new production is from an echelon

fault blocks developed on the flank of the structure at depths between 9,000' - 11,000'.

Maurice Birdwell received his BS in Geology from Southern Arkansas University and his MS from N.E. Louisiana University. He was an offshore and onshore Assistant District Geologist for Texaco in New Orleans, and District Manager for Enserch Exploration in Jackson. He

was then with McAlester Fuel Co. in Magnolia, Arkansas; Victor P. Smith and Associates, and Merit Oil Co. in Jackson. He is currently General Manager for Hunt Petroleum Corp. in Shreveport, Louisiana. He is an AAPG Certified Petroleum Geologist and is a member of numerous professional societies.



ORIGINAL PROSPECT MAP

Continuing our series of original prospect maps that give us the original idea picture, here is one in the "close only counts in _____ & _____" category.

This is a 1959 Seismic map of the Nancy area. Based on this interpretation, the Southwest Gas Producing Co. #1 Masonite Corp. was drilled in the NE/4 NE/4 of Section 18-1N-15E and abandoned 10-7-59. The location was selected because S.P. #111 was 7' higher than any S.P. in the main closure. If a well had been drilled anywhere in the main closure, East Nancy would have been found four years before Bienville Forest, the discovery which initiated the Smackover play. East Nancy was actually discovered 4-3-68.

Incidentally, this map would also have found Nancy Field, which was discovered 2-5-67.

Courtesy of Marvin Oxley.

Terry Travis
Log Analyst



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The following data page is a portion of a core and sample description report contributed by the Energy Section of the Office of Geology. The full report and abbreviation code is available from:

Mississippi Office of Geology
PO Box 20307
Jackson, MS 39289-1307
(601) 961-5500

File No: 620	Pages 7
County: Warren	Sec. 16-18N-2E
Field: Eagle Bend Dome	Loc: CNWNE
Operator: Amerada Petroleum Corp.	Fee: 1 State
Elev.: 109' DF	Total Depth: 4420'
Casing: 10 3/4" @ 812'	Perfs. None
Compl: 8-10-47	D & A
Logged by: Jack Henderson CPG #1360	12-95

Drill Stem Test (OH): 3616-37' open 1 hr., 1/4" B & 5/32" T chokes
Top pressure 25# - dropped to 0# in 25 min.
Rec. 315' mud, v slight gas odor, 3226' saltwater

Drill Stem Test (OH): 3718-3883' open 64 min., 1/4" T & 5/32" B chokes
Top pressure 5# BHFP 1550#
Rec. 960' mud, 2338' muddy salt water

Tops: Amerada (L. Boland): Sparta 1211', Cane River 2104, Winona 2301, Wilcox 3025', Midway 3350', Sand 3622-50', Volcanic 3650-3716', Gas Rock 3716-4216', poss. Gas Rock 4235'. P1 card reports Igneous 4216-33', Anhy 4233'

CORES DESCRIPTION: AMERADA (L.F. BOLAND)

#1)3025-35'	Rec. 3' Sh w/streaks sd, NS
#2)3152-62'	Rec. 8' Ss, glauc, shaley, mica and sl lignitic, NS
#3)3344-50'	Rec. 2' Ss, hard, cal. shaley NS
#4)3491-3501'	Rec. 9' Sh, black
* #5)3627-37'	Rec. 3' 6" Sd, m-csgr, soft to firm, sl odor and good taste, sl salty at base, brn ether cut
*#6)3655-65'	Rec. 10' grn reworked volcanics w/spots of dead oil, brn oil in fractures
*#7)3722-32'	Rec. 3' Ss, gry, hard, limey, foss w/strks calcite, few spots dk brn oil in calcite strks, tr oil and gas bubbles
#8)3732-42'	Rec. 5 1/2' Ls, gry, hard, foss., oolitic, sdy NS, 1' Ss, hard, calc NS
#9)3782-92'	Rec. 2' 1" Ss, calc, foss, NS, 10" Ls, sdy, foss, (coquina) NS
#10)3860-70'	Rec. 2' Ls, gry & wht, foss, sdy NS
*#11)3879-83'	Rec. 5' 4" Ss, shaley, v calc, cross-bedded, 1' same w/dk brn oil stains in sdy strks, good ether cut
* #12)3883-92'	Rec. 6' Sd, irreg oil stain in top 6"
#13)3972-82'	Rec. 3' 6" Sd, silty, 1' 6" Ls
#14)4026-36'	Rec. 1' 6" Ls, sdy w/strks blk Sh, 1' Ls, sdy w/gry chalk inclusions
#15)4215-25'	Rec. 8' Igneous material & sl calc tuff
#16)4241-51'	Rec. 7' 6" black cal material w/Anhy, 7" Anhy, gry &
	wht w/strks blk shale and 6" Anhy, wht
#17)4312-22'	Rec 1' 6" Anhy
#18)4322-32'	Rec. 8' Anhy, dk gry

	fluor
3628'	Rec. 1 1/2" Ss, Fn gr, v por, oil odor, lt brnsh ether cut and brnsh-gold irreg fluor
*3636'	(double shot?) Rec. 3" Ss, v lt tan, Fn gr, v porous, poss lt oil stain w/lt brnsh yell ether cut and brnsh-gold fluor
3721'	Rec. 1" Ss, hard, chalky NS
3766'	Rec. 1: chalk, hard, sdy, lignitic, foss NS
3796'	Rec. 1 1/2" chalky, sdy, foss, sl por NS
3851'	Rec. 1 1/2" Ss, Fn gr, foss, argill NS
3872'	Rec. 1/2" SS, Fn gr, chalky, argill, NS

DRILL STEM TESTS

3616-37' Rec. 315' Mud with very slight gas odor & 3226' salt water
3718-3883' Rec. 960' Mud and 2338' muddy salt water

Symbols: *Live (migrated) oil show
- Source oil type show (in impermeable rocks-Shale, Siltstone, Limestone, etc.)
+ Dead oil shows (i.e., tar, asphalt, gilsonite, etc.)

Abbreviations:

AA (as above)	ign (igneous)
ang (angular)	LCM (Lost Circulation Material)
asph (asphaltic residue)	Ls (Limestone)
calc (calcareous)	Mdst (Mudstone)
Cs (course)	Ss (Sandstone)
NS (No Show)	Sd (Sand-unconsolidated)
o.stn (oil stain)	Sh (Shale)
qtz (quartz) (quartzitic)	stn (stain)
RR (Ring Residue)	vDGF (very dull golden fluorescence)
Sltst (Siltstone)	vfc (very finely carbonaceous)
DGF (dull gold fluorescence)	vfm (very finely micaceous)
Dolo (Dolomite or dolomitic)	volc (volcanic)
extr (extremely)	wlv (water lain volcanics)
Foss (fossiliferous)	xln (crystalline)
frags (fragments)	Y (Yellow)
G (Gold)	
gr (grain)	

Schlumberger Sidewall Cores

3188'	Rec. 1 " Ss, v Fn gr, silty, shaley, lignitic & mica, sl por NS
3224'	Rec. 3" Ss, Fn gr, lignitic, mica, por NS
3263'	Rec. 1/2" Ss, v Fn gr, silty, shaley, NS
3325'	Rec. 2 1/2" Sd, v Fn gr, shaley, silty, fair por NS
*3624'	Rec. 2 1/2" Ss, Fn gr, chalky, sl por, faint ether cut, brnsh gold

SAMPLE DESCRIPTIONS (continued from page 5)

3430-3620'	Sh, m-dk gry, vfm, splintery	3695-3705'	AA
* 3620-27'	AA, Ss, clear, lt red (small%), vFn-Mgr, subang-subdrd, v calc in pt (veinlets?), spotted lt brn o stn, no fluor, instant streaming Y cut	3705-3715'	AA, tr Ls, lt tan-wht spotted (foss frags), micritic-m xln, extremely foss in lg% (Gas Rock)
3627-55'	No samples -see Amerada sidewall core descriptions	3715-22'	AA - pred Volc rock, red & wht, AA-(CVG's ?)
+3655-65'	(core-Rec 10'-top) Volc rock, pale grnsh gry-red streaked, vFn xln-amorph: (crushed) - weak Y RR: red laminae (not crushed) instant fair pale Y cut (core-mid) AA: (crushed) pale grnsh-gry Volc rock (soapstone?) NS: red-rock, instant fair pale Y cut (core-bot) AA: (crushed) weak pale Y RR	-? 3722-32'	(core-rec 2'-top)LS, lt brn-wht speckled (foss), v Fn xln, tr Cs clear calcite xls, v sdy, lt o stn (?) no fluor, lt silvery-wht RR (contam?) (core- bot) Ls, lt-m gry, scatt wht foss frags, v Fn-Cs xln, v sdy (Fn gr) in pt, v slow DY cut & RR
* 3665-75'	(cuttings) Sh & Volc rock, AA, tr Ss, clear- m red speckled, v Fn- M gr; tr Ss, clear-buff, Fn-M gr, poss por, lt brn o stn, no fluor, slow streaming pale Y cut, fair Y RR	3732-42'	(core-rec 5'-top) Ls, AA except some stained lt orange-red, (mineralized), v silty (vfn), v foss: (crushed) v weak DY RR (core-mid) Ls, gry-wht speckled, tr orange-red stain(mineralized), v Fn-M xln, v foss, extr calc (core-bot) Volc rock, rust-red & wht mottled, bluish-gry phenocrysts (feldspar), v lg calcite xls
3675-85'	Sh, m-dk gry, splintery, vfm; Volc rock, AA	3742-50'	(cuttings) Ls, wht, lt gry w/wht specks (toss), v Fn xln-chalky, few v small vugs: (crushed) tr pale Y RR, Volc rock, AA
3685-95'	Volc rock, wht-red "mixed" Volc rock, wht-red "mixed"		

WHEN IT COMES TO MOVING WATER by Jack Moody

For those of you who don't know about the Petroleum Technology Transfer Council, please be informed there is such an organization out there whose purpose is to help producers with information and referrals to people who can offer current solutions for difficult technical problems. As a part of this PTTC effort, a gathering of oil and gas people were asked to prioritize the problems which this region, Mississippi, Alabama, and Florida, has to deal with. One of those priorities was the moving and disposing of produced salt water. With such a widespread problem defined, it seems reasonable to seek ideas and suggestions from those most successful at the task. There are probably a number of operators doing a pretty good job at this, but one stood out. In the 23 years I've been in the oil and gas brotherhood of Jackson I've heard many times that John McGowen was Mr. Saltwater. His reputation for moving vast quantities of the stuff was unparalleled in the circles I've traveled in. In seeking another engineering type article for our bulletin I decided to ask the king himself for an interview. That request being granted, I had the pleasure of a long and very enjoyable visit with John on August 28, at his Jackson office.

Basic physics is common to all

production. Many things may vary, but not the laws of physics; resistance, fluid displacement, gravity are constant. John says "very few go to the basic physics". John produced several very nice studies which his son, John David McGowan, had produced, that showed me this company is aggressive at what they do. They seek to understand what is going on down hole through studies and experiments, and then apply that knowledge to the task of disposing saltwater. The study on "The Effect of Brine Injection in Aquifers", seeks to demonstrate that salt water brines displace fresher waters, they don't mix with them. The Flora field study shows how all of the 60 million barrels of produced salt water can be volumetrically accounted for in the injection zones. The injected brines are separate from the original fluids, and can be isopached and the volumes calculated. John again makes the point that the injected salt water displaces the fresher and does not mix.

What are his criteria for a good disposal zone? He likes massive, clean, sand zones with broad regional extent, like strand plain deposits. He likes to find these not that far down dip from their outcrop and recharge areas. His good areas are slightly underpressured due to

the large withdrawals being made by fresh water wells in the same zone in the shallower fresh water positions updip. Also, you must have firm or brittle shales overlying the intended injection zone. When a disposal well is completed, John likes to pump out about 100 bbls of sand. This, of course, creates a large void around the borehole where perforated. John was clear that when the overlying shales collapse, they must be brittle in nature. If you are dealing with young, would be shales, or gumbos, the gummy texture will gum up the works. John believes the initially unstable void eventually stabilizes into a dome-like cavern. "Within your economic limits, go as deep as you need to go to get the right shale texture."

When John talks about basic physics, a lot of what he is referring to is the pressures required to overcome resistance to injection. He has found that in major gulf coast aquifers it takes about one pound of pressure for every 1600 barrels injected per day. His common sense approach says that if you know the formation's resistance pressure is 100 lbs., and it takes you 1000# of pressure to inject in that zone, you have introduced 900# of resistance in your system. His

Continued on page 11

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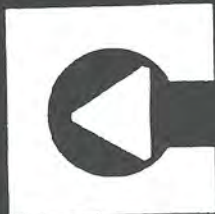


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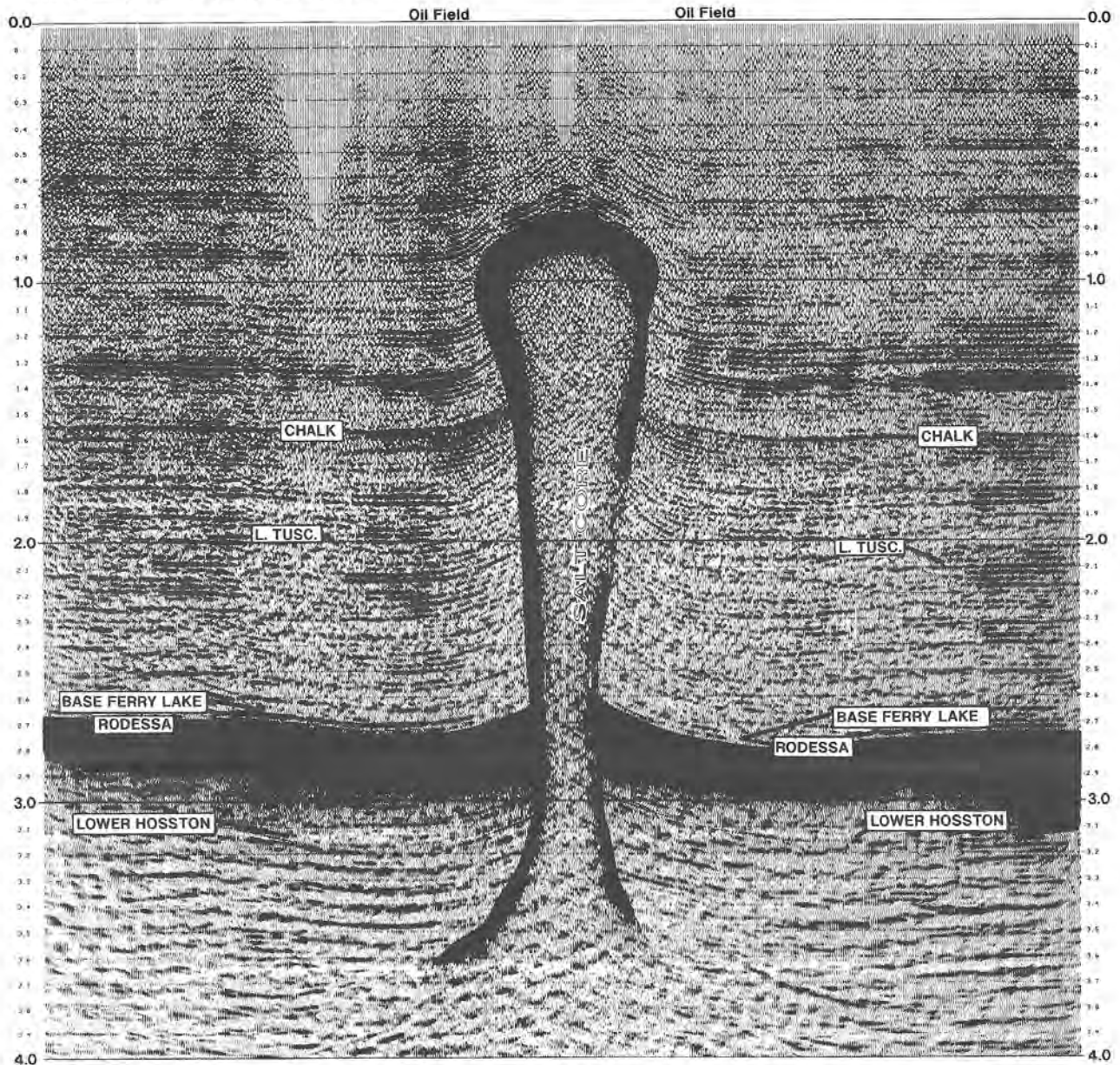
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Type Seismic Profile : MISSISSIPPI SALT DOME



ORIGINAL PROSPECT MAP

The salt dome play of Mississippi is enjoying a nice string of successes. We thought you might enjoy seeing a seismic section of one of these productive features. Note how close the operators must be to the salt-sediment interfact if they hope to catch the up-turned beds. When you catch it right, it is very good. The Oryx #1 Frankie Smith has produced over 644,000 BO and 3 BCFG since 11/89. Amerada's #1 Rankin produced 5908 MCFPD and 101 BCPD in April 96 from the Hosston in Prentiss Dome. It is the hope of finding these kinds of wells that is fueling the salt dome play.

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When It Comes to Moving Water

Continued from Page 6

approach is to attack the points of resistance he can do something about. John goes for bigger pipe and bigger flow lines among other things. Resistance as a function of pipe diameter is a factor that is controllable, but expensive. His method of moving large volumes is loaded with up front expense. As he puts it, "we are paying up front for the future efficiency in a depleting resource." This approach is cause for much soul searching when contemplating a new project. He looks at his large up front investment and plays out the scenarios of what if a 3% oil cut, 2%, 1%, or less than 1% oil cut! At this point, I wish to say, take heart oil industry, this man makes money on 0.3% oil cuts! I somewhat felt like the person who said, I had heard of your reputation and thought it was

somewhat exaggerated but now that I've seen it, the half was not told.

So there we have it, get some beautiful massive sand zones with regional extent, good shales, large tubulars, and the nerve to invest a lot of money on a small oil cut operation. Seems simple enough.

I asked him what his personal approach to the constant new problems he faces would be. He quickly stated that, "the industry canned solutions usually get in your way". He looks at them as often lacking common sense," and if it doesn't make common sense, it probably won't help".

We ended our visit on a note about corporate climate, that is, the atmosphere that characterizes the workplace. He says

it must be collaborative, and must be able to accept mistakes, even big mistakes. I told him the story of the Xerox executive who made a decision which cost Xerox \$5 million dollars. Three days later the president of Xerox called him. The president asked, do you know why I called? The reply was, I think so, to issue my walking papers. The president said, fire you! I just sent you to a \$5 million business school, why should my competitors reap the benefits. With that John McGowan let out a big laugh and said "yea, and the next time that problem comes up I know who I'm sending. He won't make that one twice."

Well, our visit passed by like the wind, time flies when you are having fun. It was for me, a most enjoyable afternoon. I hope that some of the above

AFTER 18 YEARS OF MARRIAGE TO FRED, WHEN I FEEL "THE EARTH MOVE," I'M PRETTY CERTAIN IT'S A TECTONIC EVENT.



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1. Petroleum Engineer International May 1995 - "Durable Screen Design Withstands Wellbore Deformation" This short notice may have something of value for those of you having sanding problems. It sounds like this multi layered screen offers a solution to some situations .

2. Petroleum Engineer International, May 1995 - "Downhole Gas Separator Increases Beam-Pumped Well Production". This "poor boy" downhole gas separator resulted in an average production increase of 24%. If you are producing gas with your oil you may want to read this article.



3. Petroleum Engineer International, June 1995 - "Air


Floatation Improves Water (flood) Quality". Air floatation is a process by which dispersed liquids and solids can be removed from water by air bubbles. This addresses the problem of injected waters of a quality that result in plugging injection wells. That means high injection pressures and frequent clean out. This new system resulted in a tenfold increase in the injectivity index.


4. JPT, July 1995 "Specialists Share Knowledge of Sand-Control Methods" - Five specialists address 1. Which type of sand-control to choose. 2. Which perforating method and other pregravel-packing steps are most important. 3. Opinions on openhole

completions vs cased in zones requiring sand control. 4. Causes of skin damage consequences and remedies for gravel-packed completion performance. 5. How about sand control in horizontal wells. 6. How to judge performance of gravel packs or frac packs. 7. Future sand control areas of investigation. 8. Permeability threshold for screen-only completions. 9. Special considerations for frac packs in deviated wells 10. When to run screen for frac pack. 11. Fluid loss in gravel pack operations.

5. JPT July 1995 "Prediction of Sand Production in Gas Wells: Methods and Gulf of Mexico Case Studies" - This study shows the maximum sand-free drawdown for a gas reservoir is lower than for a liquid reservoir. The allowable drawdown for sand-free production decreases as reservoir pressure depletes.

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The 1994 Arkansas Oil and Gas Commission exhibits are available at a cost of \$80.00. Geologic exhibits form 1991-1993 are also available at the cost listed below. Proceeds will benefit the departmental studies in Stratigraphy and Subsurface Geology. Help yourself and help a deserving graduate student by purchasing a copy of the exhibits. Please return this flyer to: *Dr. Walter L. Manger, Professor of Geology, P.O. Box 4486, Fayetteville, AR 72702-4406.*

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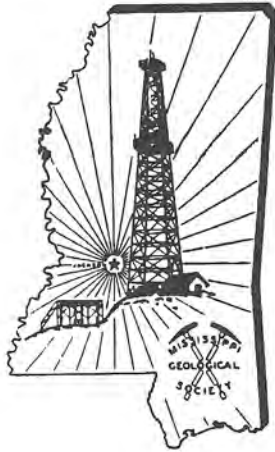
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MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

VOLUME 45

NUMBER 3

NOVEMBER 1996

PRESIDENT'S LETTER

by JACK MOODY

Back in my earlier surfing days I would commonly hear the same refrain when we'd arrive at some distant beach, "you should have been here yesterday!" Well the same applies to our October 8 meeting where Maurice Birdwell talked about the Rodessa and Hosston activity in Tinsley Field. You should have been there. It was an interesting talk with questioning lasting until 2:00 P.M. I'm told. Jack Henderson's sample description this issue is from the well which kicked off all this activity.

Larry Baria has got his next show lined up and it sounds like a good one. Can wire line logs give the same kind of rock information as whole core analysis? We'll find out. I'm told that Western Atlas, Schlumberger and Location Sample Service will be there to inform us all about the state of the art in MRI. We're talking crossover technology, that is when

technology from one industry, say medical, is applied successfully to a completely unrelated industry such as oil and gas. In this case, the medical folks have given the oil industry their MRI (magnetic resonance imaging) technology. It sounds like everyone better mark the calendar for November 12 lunch at the Capitol Club.

On November 19 the MGS environmental section will have Greg Stone of LSU talk about the effects of the hurricanes that hit coastal Florida and Louisiana. You'll see how much work can be done on a coast when a big blow comes to visit. The format for these meetings is BYOL - bring your own lunch, and there is no cover charge, what a deal!

As a tid bit of interesting information, please be advised that

the state has been approached to lease some offshore blocks in state waters. Once the environmental interests learned of the matter the stuff began to fly. I was quite taken aback by the gross misinformation that was circulating and appearing in print. Did you know that people swimming on the beaches in areas of production come out of the water with oil on their skin. Have you seen the fish caught around the rigs which have lesions on them from the chemicals and pollution. If this were not so sad it would be funny; last I heard it is hard to find better fishing in the Gulf than around the rigs. Take heart Mississippi, if wells are drilled in state waters it will be a zero discharge operation; not even rain water that falls on the platform is allowed to enter the sea. I hope the loud voices of a few will not be misconstrued as the will of the many.

DON'T BE A DEADBEAT GEOLOGIST!

It's now membership renewal time- Please use the form on the back!

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The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting is November 19 and the speaker will be Dr. Gregory W. Stone.

BUSINESS MEETING LUNCHEON SCHEDULE

Christmas Party December 10, 1996	January 14, 1997 February 11, 1997 March 11, 1997 April 8, 1997 May 13, 1997
--------------------------------------	--

BUSINESS MEETING LUNCHEON

11:30 A.M. November 12, 1996

Capitol City Petroleum Club, Smackover Room

Guy McCardel and Gary Nolen, *Location Sample Service*;
 Greg Gubelin, Schlumberger and Dave Shorey, Western Atlas
Magnetic Resonance Imaging

Magnetic Resonance Imaging is the latest thing in state of the art precision measurement of movable hydrocarbon vs. movable water vs total water in relation to total hydrocarbon. It is also an indicator of permeability and how a reservoir will perform.

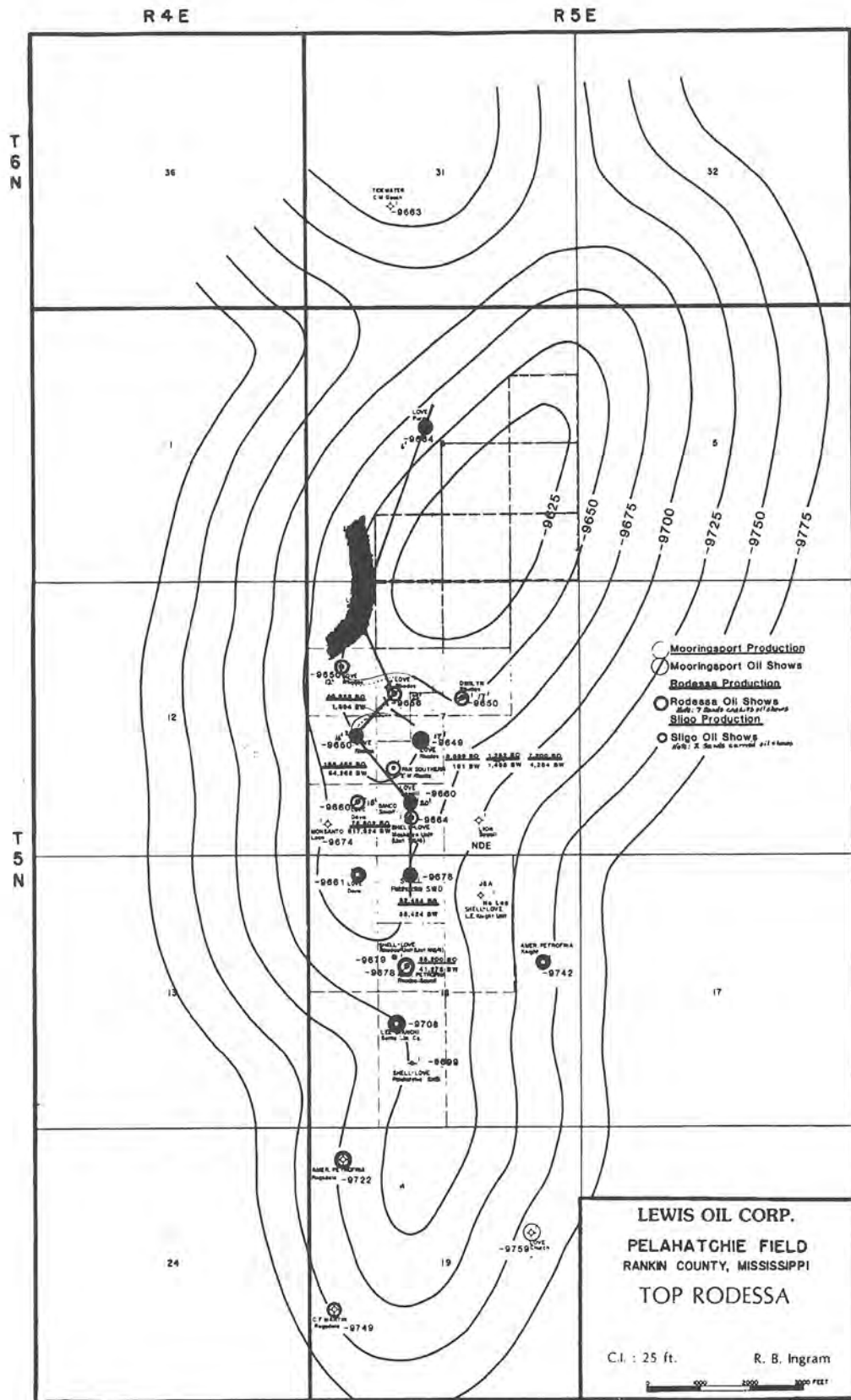
Morphological Signature of Severe Hurricanes; Northern Gulf of Mexico Coastline.

Dr. Gregory W. Stone, Director: Coastal Morphodynamics Laboratory, Howe-Russell Geoscience Complex, Louisiana State University, Baton Rouge, LA 70817

Two tropical cyclones, Andrew and Opal, similar in strength, made landfall in Louisiana (1992) and Florida (1995) respectively. Although the respective sea-state in the GOM was largely comparable, the morphological response of barrier islands in both locations was significantly different. The Isles Dernieres in Louisiana underwent among the most significant morphological change with erosion approximating 85 m³ m⁻¹. The vast majority of sand was stripped entirely from the barriers, transported into the adjacent bay exposing the barrier platform mud core. Landward translation of the shoreline was typically 25 m. Hurricane

Opal made landfall along Santa Rosa Island, Florida. Landward translation of the barrier shoreline was minimal and between 95-99% of sediment eroded from the beach-dune system was accounted for in extensive overwash deposits. Volumetric loss of 33 m³ m⁻¹ was measured, although net gain of 6 m³ m⁻¹ was also calculated. Although the Isles Dernieres were significantly lower in pre-hurricane elevation (<2m) than Santa Rosa Island (approximately 5 m), each of the barriers were submerged during the peak surge phases. While this explains the classic overwash response of the respective barrier systems to the

hurricanes, a satisfactory explanation for the substantially greater volume of sediment removed from the Isles Dernieres has not yet been derived. The data also suggest that redistribution of sediment offshore is not necessarily coincident with hurricane landfall along barrier island coasts. Post-storm recovery rates at both sites are significantly different as a direct function of sediment availability in the nearshore. These data have important implications for barrier island response and recovery in neighboring states including Mississippi and Alabama.



ORIGINAL PROSPECT MAP

Here is a nice piece of work by Richard Ingram. If you pull out a recent map you'll find four new producers, 3 Hosston and 1 Paluxy on Richard's prospect. Together they are making about 680 BOPD. Even the one dry hole they drilled is doing well as a disposal well. Perhaps this was given to Richard to help support his newly adopted 4 year old son. Congratulations Richard, well done!

Terry Travis
Log Analyst



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Telephone 601-961-5500

The following data page is a portion of a core and sample description report contributed by the Energy Section of the Office of Geology. The full report and abbreviation code is available from:

Mississippi Office of Geology
PO Box 20307
Jackson, MS 39289-1307
(601) 961-5500

File No. 6543
County: Yazoo
Field: Tinsley
Operator: Hassie Hunt Expl. Co.
Elev: 245' KB
Casing: 5 1/2" (10,015'
Test: IPF 8206 MCFG+430 BCPD (60°G)
+22 BWPD, 24/64" ch., FTP: 2610#

Pages: 6
Sec. 1-ION-3W
Loc: SE NW
Fee: #A-4 Lammons
T.D: 10,015'
Pf: 9230-50' (Hosston-Hunt)
Comp: 10-9-95

Logged by: Jack Henderson CPG 1360, 3-15-96

TESTS AND SHOWS

Perf: 9822-40' Test: Swabbed 100% SW Cotton Valley
Perf: 9585-90' Test: 1600 MCFGPD +17 BCPD + 13BSWPD
Hosston "D" Sd
Shows-not: 9090-9108' (19' net ft - no water) Hunt
tested "A" Sd
9062-9207' (45' net ft-no water) Hunt "B" Sd
Perf: 8136-44' Test: F 75 BOPD Mooringsport
Perf: 5368-77 Test: F 77 BOPD (Eutaw) Stevens Sd stray

Tops: (operator) Wilcox 1838; Midway 3850'; Selma 4721'; Woodruff sand 4858'; Perry Sand 5294'; Upper Stevens sand 5366'; Mooringsport sand 8138'; Hosston 8994'; Cotton Valley 9670'

Comments: Samples start at 7400'. Cuttings very small-Samples described without reference to e-logs

Symbols: * Live (migrated) oil show
~ Source oil type show (in impermeable rocks-Shale, Siltstone, Limestone, etc.)
+ Dead oil shows (i.e., tar, asphalt, gilsonite, etc.)

SAMPLE DESCRIPTION

* 9080-9110 Sh, m-dk red, vfm; Sh, lt-m steel gry, vfm; Sd, AA; tr Ls, lt gry-buff, micritic
* 9110-9120 Ss/Sd, lt brn, v Fn-Fn gr, silty, lt o. stn; Sh, AA
* 9120-9130 Sh, m-dk red, vfm; Sh, m-dk gry, vfm, vfc; tr Ss, lt tan, v Fn-Fn gr, silty, lt tan o. stn
* 9130-9140 Sd, clear, lt tan, Fn-M gr, spotted lt o. stn; Sh, m-dk red, vfm
9140-9150 Sh, AA pred red; Ls, wht-lt tan mottled, tr m gry, micritic, tr pyrite
* 9150-9160 Sd, clear, lt tan, Fn-M gr, ang-subang, lt o. stn, no fluor, weak Y RR; Ss, lt tan, v Fn-Fn gr, lt o. stn; Sh, AA
9160-9170 No sample
* 9170-9180 SS, wht, clear, M-Cs gr, ang-subang, tr weak Y RR; tr Ls, lt gry, lt tan micritic; Sh, red & gry, AA
* 9180-9200 Sd, wht, clear, m-Cs gr ang-subang, tr weak Y RR; tr Ls, lt steel gry, lt tan, micritic; Sh, red & gry, AA
9200-9220 Sh, dk red, vfm, vfc; Sh, lt-m gry, vfm; Ls, wht,

milky gry, chalky in pt, micritic in pt
* 9220-9250 Sd, wht, clear, M gr, ang-subang, no stain, no fluor, v weak pale YRR
9250-9260 Ss, wht, v Fn gr, tr Fn gr, silty, prob NP, non-calc; Ls, wht, chalky; Ls, buff, micritic
9260-9280 Sd, clear, wht, M-Cs gr, subang-subrded; Sh, m red-grnsh-gry mottled, vfm; Sh, m-dk gry vfm, vfc; tr Pyrite
9280-9290 Sh, dk red, vfm; Sh, dk gry, vfrn, vfc; tr Ls, wht, chalky, micritic in pt; tr Sltst, buff, argill, v glauc
9290-9330 Sd, wht, clear, M gr, subang-ang
9330-9390 Sh, dk red, vfm; Sh, dk gry, vfm, vfc; tr Coal, blk, vitreous; Sd, AA; tr Ls, wht-lt red mottled, chalky
9390-9440 Sd/Ss, wht, Fn-M gr, ang-subang; note: Ss, prob por&non-calc
9440-9460 Sh, m-dk red, vfrn-l frag, w/slickensides; Sh, m gry, vfm, vfc; Sd, wht, clear, Fn-M gr, ang-subang
9460-9480 Ss/Sd, wht, clear, vFn-M gr, ang
9480-9490 Sh, m-dk red, tr gry mottling, vfm; Ls, red-wht mottled, chalky; tr Sltst, lt red, sdy (v Fn gr), calc
+ 9490-9500 Ss, wht, buff, v Fn-Fn gr, silty, prob NP; tr Ss, lt brn, blk speckled (asph), v Fn-Fn gr, mica
* 9500-9510 Sd, wht, clear, lt brn, clear, Fn-M gr, subang, lt brn o. stn, unif pale Y fluor
* 9510-9550 Ss/Sd, wht, clear, lt tan, Fn-M gr, ang-subang-subrded, spotted lt brn o. stn, spotted pale Y fluor
9550-9560 Sh, m red, vfm; Sh, dk gry, v mica, vfc; tr Ls, wht, red-wht mottled, chalky
9560-9590 Sd, clear, wht, M gr, subang, tr ang; tr Ls, wht, chalky, tr Coal, blk, vitr, subconch fracture
9590-9610 Sh, m-dk red, vfm; tr Sh, dk gry, vfm, vfc; Sd, AA
* 9610-9620 Ss, lt tan, v Fn-Fn gr, scatt M grs, ang-subang, por in pt, lt o. stn, no fluor, v slow DY cut
*+ 9620-9630 Sh, dk red, vfm, vfc; Sh, dk grnsh-gry, vfm, vfc, non-calc; Ss, wht, v Fn-M gr, ang-subang calc, np, o. stn, AA; tr Ss, wht, v Fn-Fn gr, tr asph res
* 9630-9640 Ss, lt tan, v Fn-Fn gr, tr M gr, ang-subang, prob np, lt o. stn, no fluor, slow G cut, fair DG RR; Sh M
* 9640-9660 Sd, wht, clear, frosted, M gr, subang-subrded, no o. stn, v weak DY fluor, fair DG RR

SAMPLE DESCRIPTIONS (continued from page 5)

*+ 9660-9670 Sd, AA w/tr asphalt; Sh, dk red, vfm, tr mica (med flakes), vfc
 * 9670-9690 Ss, lt pinkish-tan, M gr, ang-subang, lt o.stn, no fluor, fair DG RR; Sh, dk red, vfm, tr mica (med); Sh dk gry vfm & med flakes mica, vfc
 9690-9700 Sh, dk-v dk red & m-dk gry, vn, vfc
 9700-9750 Ss/Sd, wht, clear, v Fn M gr, silty, ang-subang, tr pyrite xls NP NS; Sh, m- dk red-gry mottled, vfm
 * 9750-9760 Sh, dk red-mottled gry in pt; Sh, m-dk gry, mottled red in pt, vfm; Ss/Sd wht-lt tan; v Fn-Fn gr prob por, lt o stn, DGF, fair lt G cut, heavy lt G RR
 * 9760-9770 AA, except oil cut is weak, pale Y RR; tr Ls, lt brn, lt reddish-brn, micritic; tr Ls, wht, chalky
 * 9770-9790 Sd, wht, clear, frosted, M gr, tr Fn gr, ang-subang, o show AA
 * 9790-9800 Sh, dk red, vfm; Sh, lt-m gry, vfm, vfc, silty; Sltst, lt gry, vfm, vfc, hard (glassy in pt); Sd, AA
 * 9800-9830 Sd/Ss, lt tan, wht, v Fn-M gr, ang-subang, lt o stn, DG fluor, rapid m-y cut, fair m Y RR
 * 9830-9850 AA-increase % Ss, spotted lt o stn, slow lt G cut, fair G RR; tr Sh, dk red, vfm
 9850-9870 Sh, dk red, vfm; Ls, wht w/widely scatt blk incl

(carb?), tr pinksh-wht, chalky; tr Ls, buff, micritic, v sdy in pt
 * 9870-9890 Sd, lt tan, Fn-M gr, ang-tr subang, lt tan o stn, spotted pale Y fluor, slow lt Y cut, lt Y RR; Sh, dk red, vfm
 9890-9900 Sltst, wht, pinksh-wht mottled, calc, Sh, AA
 9900-9910 Sd, clear, wht, lt tan, Fn-M gr, ang-subang, no fluor, no cut
 9910-9930 Sh, dk red, vfm; Sh, m-dk grnsh-gry, vfm, vfc, non-calc; Ls, pinksh-wht, chalky: tr Ss wht Fn-M gr, sl calc NP; Ls, lt gry-lt red mottled, micritic
 9930-994 Ls, AA; pred chalky; Sh & tr Ss, AA
 * 9940-9950 Sd, lt tan, v Fn-Fn gr, tr M gr, ang, lt o stn, no fluor, weak pale Y cut
 9950-9960 Ss, lt tan, v Fn-Fn gr, scatt pyrite xls, prob por in pt; Sh, m-dk gry, vfrn; Sh, dk red, vfm
 9960-9970 Ls, wht w/tr pink mottling, buff, chalky
 9970-9980 AA; Ls, buff, lt tan w/tr pink mottling, micritic; Ss, AA
 9980-10,015 Sd, wht, clear, M gr, ang-tr subang, NS

DTD 10,015' Descriptions completed 3-15-96 E.J. Henderson CPG #1360

Rule 69 - Naturally Occurring Radioactive Materials (NORM) and Oil and Gas Production In Mississippi

by Rick L Ericksen, Energy Section, Mississippi Office of Geology

Mississippi's State Oil & Gas Board has recently adopted Statewide Rule 69 which deals with NORM in oil & gas operations within the State of Mississippi. The term "NORM" is the acronym for Naturally Occurring Radioactive Materials. Rule 69 took effect on June 1, 1996, after many months of discussions and hearings. The primary purpose of the rule is to provide regulations for the control of oilfield NORM to ensure that oilfield workers and the general public's health, safety, and welfare are adequately protected from exposure to radiation above an acceptable level.

Briefly, NORM is both ubiquitous and pervasive in our environment. It is found in varying concentrations in rocks, soils, water, air, and animals, including man. The highest concentrations of NORM are found in rocks and soils. The sources of the main culprit involved in NORM radiation (radium) are uranium and thorium. Both uranium and thorium are essentially insoluble under natural conditions. However uranium, i.e. uranium-238, decays through its decay chain into radium-226; and thorium, i.e.

thorium-232, decays into radium-228. Radium is more mobile and is readily incorporated into formation fluids that are transferred to the earth's surface when hydrocarbons are produced. In Mississippi we move a lot of fluid (formation water) - just for 1995, oil and gas wells in the state produced 234,672,218 barrels or 9.8 billion gallons of water. In addition, radium, because of its ionic radii size, readily substitutes for calcium and barium ions in the formation of precipitates. This leads to the accumulation and concentration of radium in pipe scale in the form of sulfates and in sludge in the form of silicates. It is of further interest to note that of the two isotopes of radium which are the daughter products of uranium and thorium decay, radium-226 is the most worrisome because when it decays it emits both beta and gamma radiation and gamma emissions are capable of traveling through steel, iron, etc.

Without going into detail concerning this new rule, which is available in its entirety from the State Oil & Gas Board, the following is a synopsis of some of the

pertinent features of what is now required.

- 1) Exploratory oil and gas test wells drilled in Mississippi require a NORM survey only after production is established.
- 2) Currently existing productive oil and gas wells and associated production appurtenances and facilities must have NORM surveys conducted in the manner prescribed in Rule 69 within one (1) year from June 1, 1996. The survey must be done by a "radiation surveyor", with a radiation detector which has been calibrated within the past 12 month period.
- 3) Property may be transferred without regard for its radiological constituents to another producer provided that the most recent radiation survey documents are transmitted to the new producer prior to the actual property transfer.

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Mississippi Geological Registration Task Force/Advisory Committee News Update -October 1996

registration of geologists in Mississippi. The Task Force has received preliminary legislative rewrites of the proposed legislation

The Geological Registration Task Force has now held seven (7) informational meetings across the state regarding proposed legislated

and will shortly mail information concerning the registration bill and other related materials to geologists who reside in Mississippi, as well as the professional geological organizations in neighboring states. If you would like to review the bill in its entirety on the Internet, it can be found at the MMRI website at the following address:

<http://sunset.backbone.olemiss.edu/depts/mmri/index.html>

The Task Force/Advisory Committee is soliciting contributions to help defray costs of copying, mailings etc. associated with their efforts. The Task Force has established a checking account for this purpose and if you desire to make a contribution, make your check payable to the "Mississippi Geological Registration Task Force". This is a worthy effort which should repay a small donation several times over if professional geologic registration becomes a reality in Mississippi as it has in most of the other states in the southeastern U.S.

Should you have any questions or comments please feel free to contact the Committee's chairman, Rick Ericksen at the following address:

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I hereby submit an application for membership in the Mississippi Geological Society for:

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New applicants must secure sponsors (2 active members). No sponsors needed for renewal of membership.

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College/University attended: _____ Degree _____ Major subject _____

Current Specialty _____ Sponsors (2) _____

Applicant's Signature _____ Date _____

I am interested / am willing to serve:

as an officer Yes _____ No _____

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Committee Name _____

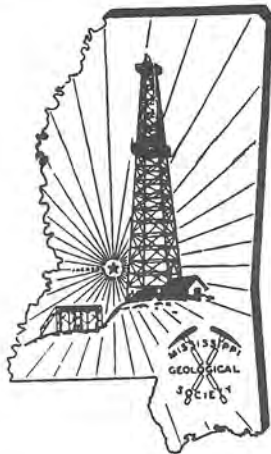
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MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

VOLUME 45

NUMBER 4

DECEMBER 1996

PRESIDENT'S LETTER —

by JACK MOODY

Thanks to Larry Baria's efforts, the November noon meeting was well attended, and those who came saw the benefits of new technology. The use of the MRI (magnetic resonance imaging) can give explorationists and development people some really great information. What caught my ear was the ability to get this information of porosities, perms, and much more from sample cuttings. If that is correct, than how valuable could the sample and core collections at the Office of Geology and USM be for explorationists. Several years ago there was a \$1 billion contract on the line for Mississippi, and the main technological pivot point was the porosity and permeability of the Wilcox near Richton Dome. With this MRI technology, that technical point could have been nailed using archived sample cuttings.

The November meeting also saw the presentation of the Larry Boland scholarships. The recipients were Chad Jones-MSU, Heather Lott-Millsaps, Shelia Cody-USM, Addy Mills-U of Miss, and Stephanie Carney-MSU. Our best wishes go with these outstanding geology majors.

Make sure you mark your calendars for the MGS Christmas party to be held on December 10, 4:00-6:00 P.M. at the Capitol City Club. During December there is no regular meeting so we'll have our next lunch meeting on January 14, 1997.



Christmas Party

Tuesday, December 10

4:00 – 6:00 p.m.

Capitol City Club

10.00 per person

hors d'oeuvres

all drinks cash bar

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DON'T BE A DEADBEAT GEOLOGIST!

It's now membership renewal time. Please use the form on the back!

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The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting is January 21, 1997 and the speaker will be

BUSINESS MEETING LUNCHEON SCHEDULE

Christmas Party December 10, 1996	January 14, 1997 February 11, 1997 March 11, 1997 April 8, 1997 May 13, 1997
--------------------------------------	--

BUSINESS MEETING LUNCHEON

Christmas Party, December 10, 1996, 4:00 – 6:00 p.m.
 Capitol City Club, \$10.00 per person

We are all busy, which tends to let some little things slide. Most of us are over 40, which means some little, and a few big, things seem to slip through the cracks. So in order to help the cause, we send this gentle reminder to our brethren who have not paid their dues yet. The Society needs your support, so please take a minute to renew. One of our goals this year is to see our membership grow. Without these people renewing, we won't have a chance to meet the goal. Let's all share and be part of a successful MGS year.

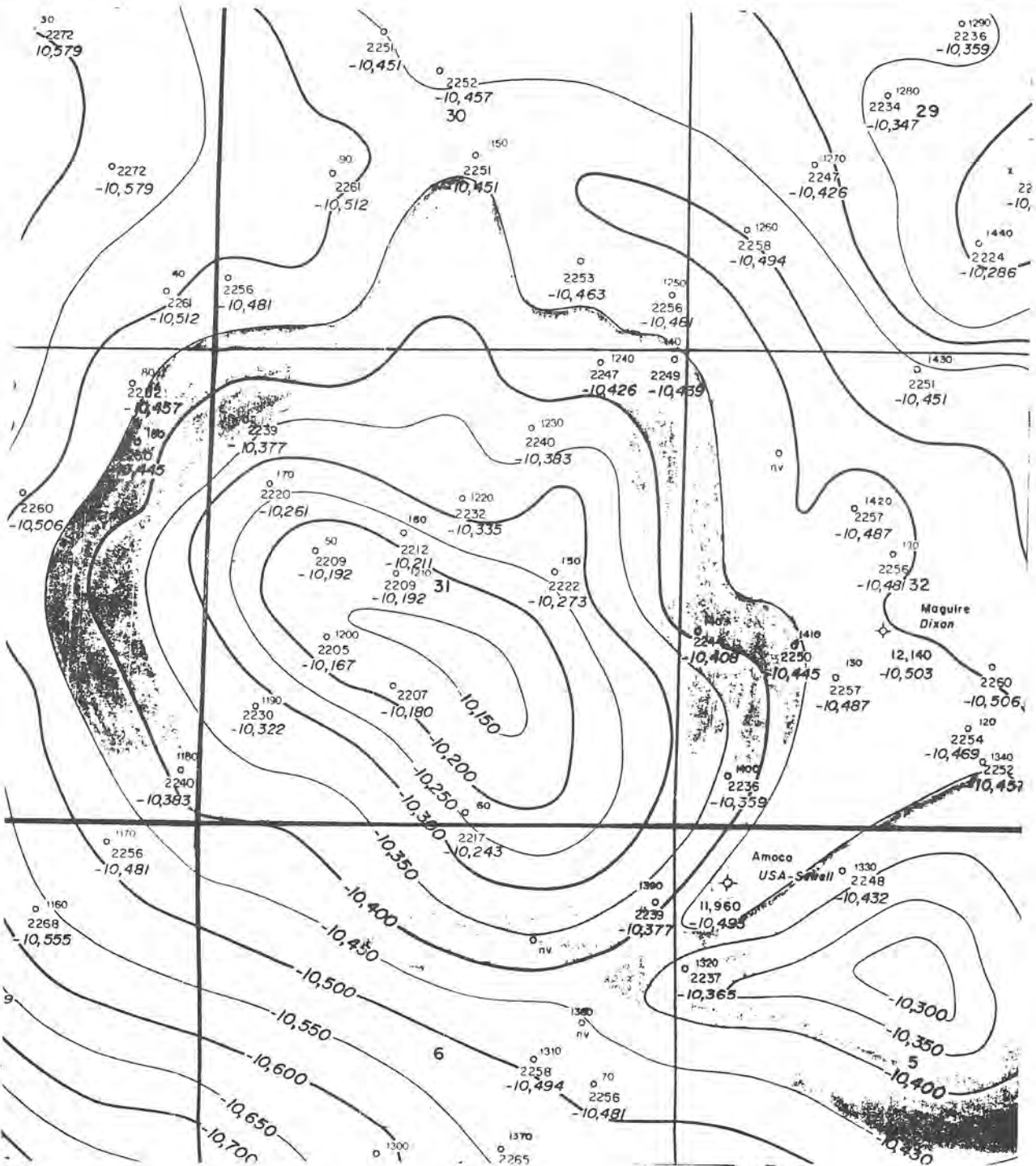
This is a list of members who have yet to renew for 1996-'97.

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IT WORKED, IT REALLY WORKED

Pleasant Home Prospect in Covington County, Alabama, worked out well for geologist Les Aultman. This 2-D seismic prospect ended up establishing Alabama's first Houston production. The discovery was followed by a 3-D seismic survey and some surface geochemistry. As of April 1, 1996, the field has 4 wells which have produced a total of over 244,000 B.O. In April the field produced 6,900 B.O.

Originally Les was going to drill the flank for the Frisco City sand, but the decision was to drill the crest. The crest proved productive and the flank is yet to be drilled to the Frisco City. The crest of this structure is loaded with shows in many sands. The one main pay to date is a loaded Hosston sand which has no known water level. The sands in this area are coming and going, so who knows what might come in the future. The initial iodine survey interpretation implied multiple channel-like accumulations. May the other channels be many, and loaded to the max.

Terry Travis
Log Analyst


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Telephone 601-961-5500

The following data page is a portion of a core and sample description report contributed by the Energy Section of the Office of Geology. The full report and abbreviation code is available from:

Mississippi Office of Geology
PO Box 20307
Jackson, MS 39289-1307
(601) 961-5500

File No. 2483
County: Scott
Field: Morton
Operator: Shell Oil Co.
Elev.: 528'DF
Casing: 16" @ 77'; 10 3/4" @ 1606';
Tests: IPF 156BOPD, TP60.75#
GOR 487:1, CG 32.9

Pages: 3
Sec. 9-5N-6E
Loc.: 670' FNL x 456' FEL SWN
Fee: #1 Rogers Est.
T.D.: 11,062'
Perfs: 6410-20' (L. Eutaw)
5 1/2" @ 6549
Compl. Date: 2-25-59

Logged by: Jack Henderson CPG 1360, 11-8-96

Tops: (Operator)

Wx	1700'	L. Tusc.	7478'
Chalk	4775'	L. Cret	7706'
Eutaw	6040'	Hosston	9443'
Oil Sand	6410-22'	CV	10,790'

Comments: Samples described from 6000'-6620' across the Eutaw productive zone. Samples of poor quality—possibly caught late—possibly disaggregated—very difficult to find oil staining. Samples described without reference to e-log.

Sidewall Cores (Operator)

14 SWS 6065'-9388'; had sd. sl. por. w/asphaltic stain 6412-15'

Symbols: *Live (migrated) oil show
Source oil show (impermeable rocks—Shale, Siltstone, Limestone, etc.)
+Dead oil shows (i.e., tar, asphalt, gilsonite, etc.)

SAMPLE DESCRIPTIONS

Lower Austin

6000-6020' Sh, pale, dirty gry, vfm, extr. calc. Marl?); Ls, (chalk), wht, sdy (vFn gr, argill; abund. Inoc; abund Siderite frags, dk reddish-brn, dense

6020-6030' No Sample

Eutaw

6030-6060' AA; tr. Sltst, lt gry, vfm, sl. sdy (vFn gr), argill, abund. foss (forams & Snail)

6060-6070' AA; tr. Ss, lt gry w/small red spots (Siderite?), vFn gr, v. silty, vfm, argill, foss frags

6070-6100' Sh, lt gry-wht speckled, lt steel gry, vfm, extr. calc. (marl?); tr. Siderite & foss, AA

6100-6130' Ss, wht, buff, vFn gr-silt, mica (Fn), extr. calc., glauc. (grn), kaol, scatt brn stain, (Siderite?)

NS; Sh, AA; tr. Siderite, lt brn, dense, sl-v sdy (vFn-Fn gr), some with tr. glauc. (grn)

6130-6140' No Sample

6140-6150' AA-decrease % Ss, Sh, dk gry, splintery; tr. Siderite, dk reddish-brn, dense

6150-6170' AA-increase % Ss; Inoc. prisms common

6170-6190' AA; Ss, wht, vFn gr, silty, sl-v. calc, sl glauc (grn) poss. kaol in pt; Sh, m gry, (crushed) NS

6190-6210' No Sample

6210-6220' Sh, lt-m gry, vfm, extr. calc; tr. Sh, dk brn, blocky, non-calc; Ss, AA

6220-6230' Ss, wht, vFn gr, silty, vfm, extr. calc, sl glauc; Sh, AA; Sh, dk gry, vfm, splintery

6230-6250' Sltst, wht, vfm, argill, extr. calc, sl glauc, sl calc; Ss/Sltst, wht, vFn gr-silt, extr. calc, soft, vfm, sl glauc., tr. pyrite-siderite spots

6250-6270' AA-decrease % Ss, tr. Lignite, dk brn

6270-6290' AA-decrease % Ss, tr. Ls (chalk), wht-lt gry, tr. glauc, tr. sd (M-Cs, subrded), tr. Lign, blk, dk reddish-brn, brittle

6290-6300' Sh, lt-m gry, brnsh-gry, vfm, extr. calc (marl?); Ss, wht, vFn gr, silty, extr. calc, mica, sl glauc; tr. Siderite, m-reddish-brn, dense

6300-6360' Sh, m gry, vfm, v. calc., splintery

6360-6370' No Sample

6370-6380' Sh, AA

*6380-6390' AA; Ss, lt-m brn/Fn-Fn gr, sl silty, calc, glauc., m brn o. stn, no fluor, slow streaming, yell, m-wht, RR

6390-6400' No Sample

*6400-6410' tr. Ss, lt brn, Fn gr, sl silty, subang-subrded, non-calc, glauc., lt brn o. stn, no fluor, slow pale Y fluor; Sh, AA; Siderite, m red, vFn xln, glauc. in pt.,

tr.sd gr,(vFn-Fn gr)
 *6410-6420' AA;Sd,clear,lt brn;vFn-Fn gr,silty,lt o.stn,v. slow,DY cut
 *6420-6430' AA;Ss,wht,vFn-Fn gr,silty,sl.glauc.,sl.calc;Sh,AA; Siderite,lt-m red,lt brn,dense,sl.sdy in pt,foss frags in pt.;foss frags-some stained red Siderite
 6430-6440' No Sample
 6440-6450' Sh,lt-dk gry,splintery;Ss,wht,lt brn,vFn-Fn gr, varica in pt,abund.Siderite and foss.frags as noted above
 6450-6470' Sh,lt-dk gry,vfm,vfc in pt.,extr.calc.,splintery, v.silty;tr.Siderite & foss frags,AA
 6470-6500' No Samples
 6500-6530' Sh,lt gry,buff,vfm,vfc,silty,extr.calc.(marl?); abund.Siderite & foss frags,AA
 6530-6540' No Sample
 6540-6550' Sh,lt-dk gry,vfm,vfc in pt.,extr calc,scatt, red-brn Siderite splotches,lt brn,sh, laminae; abund.Siderite & foss frags,AA

6550-6570' Sh,lt-m gry,vfm,extr.calc(Marl?);abund.Siderite & foss frags,AA
 6570-6580' Ss,wht,buff,vFn-Fn gr,silty,sl.glauc.,extr.calc, tr.blk carb,material;Sh,Siderite,foss frags,AA
 6580-6590' AA;tr.Ss,lt-m grnsh-gry,(glauc),vFn gr,v.silty, extr.calc,v.glauc,vfm
 *6590-6600' AA;tr.Ss,buff,pink grs,Siderite splotches & stain (red),vFn-Fn gr,subang-subrded,tr.lt.o.stn.no fluor.,dull Y RR
 6600-6610' Sh,buff,lt gry,vfm,v.silty-grades to Sltst,v. argill in pt;Siderite,AA
 6610-6620' Ss,dull gr,dull grnsh-gry,vFn,vfm,glauc,extr.calc; Sh,Siderite,AA;Sltst,wht-abund.tiny blk specks, scatt red spots(pyrite or Siderite,vfm,non-calc, Tr lt yell-brn splotches(Siderite?))

No samples described below 6620'

Described by: Jack Henderson CPG #1360 11-8-96

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 STAY OFF THE ROADS IF'N
 THE'RE MUDDY. STAY OFF
 THE ROADS IF'N THE'RE
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Credit: J. C. Knight

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Weird Belgian Congo Gas Field Is Tapped

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What's more, the zone has 100%

porosity, 100% water saturation, and is not covered by impermeable rock. The flow has continued undiminished for 10 months through a plastic pipe supported by a floating platform.

The science-fiction well is located 200 yards out from shore in Lake Kivu, a mountain lake in eastern Belgian Congo. It is producing from a zone of methane-saturated salt water. The layer is about 600 ft. thick and

covers about 586 sq. miles.

The gas is not underneath the lake bed. It is in the lake water itself. Belgian engineers say more than 2 trillion cubic feet of methane is indicated, out of a total of 8 trillion cubic feet of gas.

The gas was first discovered in 1937 during a hydro-biology survey sponsored by the Belgian Government. Some years later samples were taken from the depths and the gas analyzed.

Details of the watery gas "field" were brought from Central Africa by Thomas D. Cabot, president of Godfrey L. Cabot, Inc., which has interest in domestic natural-gas production, and carbon black.

Waters don't mix... On the basis of scientific theories, the lake is unique in that water doesn't circulate with normal convection currents.

Somewhat heavier saline water stays at the bottom. Fresher water floats on top. The lower stratum holds the gas, which is approximately three-fourths carbon dioxide and one-fourth methane. Methane is almost insoluble normally, but the lake is so deep that the gas became soluble under high pressures. The average depth is 1,500 ft.

There is almost no gas until the water depth reaches 900 ft. Below this level gas volume increases rapidly, with increasing quantities of carbon dioxide at greater depths. The methane content remains the same. Each cubic foot of water below 1,000 ft. holds 0.4 cu. ft. methane.

Hard to explain... The most plausible explanation of the origin of the methane is that it formed from decaying animal and vegetable matter falling into the depths from the surface.

The big puzzle, however, is what keeps the gas-bearing stratum permanently at the lake bottom. Other lakes circulate when water at the top is cooled by evaporation, and descends to replace warmer and lighter water below.

Tests on Lake Kivu show that surface water circulates to 900 ft. only. Mixing with the lower layer of heavier salty water is at a minimum. There is no evidence of gas on the surface of the lake except where the plastic pipe has pushed through the "skin of the bubble."

A key to the mystery may be in underwater saline springs, caused by new lava flows from which minerals have not yet been leached. The lower water has 0.35% minerals content, keeping it heavier than warmer surface water. Any gas forming in the


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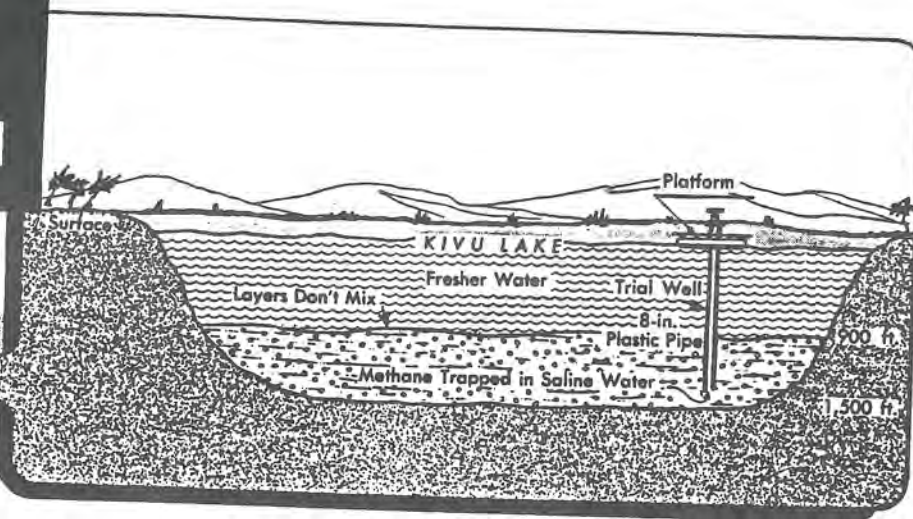
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World's Oddest Gas Field



depths has had a chance to accumulate, despite changes in climatic and volcanic conditions.

Development plans... One thing Lake Kivu has in common with many other major gas finds is a lack of a major outlet.

No one knows for sure what proportion of the gas can be marketed economically. But the Belgian Government is studying commercial development with an eye to supplying gas for local cities.

In principle, gas production should be easy. Lower a tube, prime the well with a little air, and gas-enriched water rushes out as in a gas lift. Actual practice is more complicated. The marked difference in acidity of the two water layers causes an intense electrolysis which destroys a metal tube in a matter of hours.

Union Chimique Belge, which is helping the government experiments, is using a heavy pipe of 8-in. polyvinyl

plastic in the trial well. This is hung from a small, doughnut-shaped steel float.

Bringing the gas to shore, separating it from the water, carbon dioxide and hydrogen sulfide also are problems. An inclined pipe from lake bottom to shore will be tried. Field equipment needed on shore may include a gas separator, simple scrubber tower, and an ethanolamine scrubber.

Reprinted From: *The Oil and Gas Journal*
Vol. 57, No. 17, April 20, 1959

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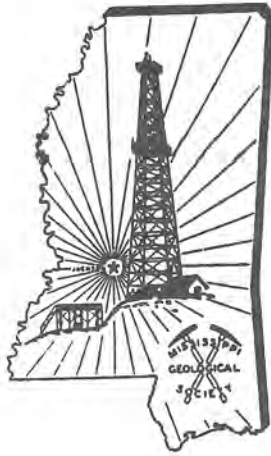
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MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

VOLUME 45

NUMBER 5

JANUARY 1997

PRESIDENT'S LETTER—

by JACK MOODY

I am not sure if the oil and gas industry's new year has looked this good in over a decade. It seems that we're off to another normal winter (cold) rather than the string of warmer winters we had for a while. Prices are looking good, Mississippi's rig count is back into the double digits, and deals are selling. Heck of a way to start the year!

Let me take this opportunity to thank George Vockroth, Steve Champlin, Larry Baria, and Roger Townsend for all their efforts in putting on the MGS Christmas party. Our Society is very fortunate to have these guys putting in the effort to get things done.

Looking ahead to the rest of this year, we will have more of Mr. Baria's hand selected speakers at the noon luncheons. Steve Jennings will be on top of things for the environmental section's speaker schedule. For those who missed Dr. Stone's talk on hurricane effects on Florida and Louisiana, be of good cheer, Dr. Stone didn't make it either. He got tied up and had to cancel, but hopes to try again this spring.

Your officers are setting our sights pretty high for this year's great finale, the Cotton Valley Symposium and jointly held Spring Fling. In my next letter I will be able to give you a good idea of what will be included in the symposium. With some luck and a lot of hard work I think it can be a great ending to this society year.

Between now and then, Larry Baria will be furnishing us with luncheon speakers. He'll begin the new year with a joint meeting of the Geological and Geophysical society featuring Dr. Fred Barr, a distinguished lecturer of the Society of Exploration Geophysicists. I hope to see you there on January 14, 1997.

I want to take this opportunity to wish you and yours a happy and successful new year.



Lecture Presented

The Fall 1996 Distinguished Lecture of the Society of Exploration Geophysicists (SEG) will be presented to the Jackson Geophysical society on January 14 at 11:30 a.m. This is a joint meeting with the Mississippi Geological Society.

This international tour by Dr. Fred J. Barr will take him to 13 cities in the United States, one in Canada and one in England with negotiations in progress to extend the tour to other countries.

Barr's talk will focus on the dichotomy that currently exists in the field of data acquisition: a dazzling array of new technology suddenly allows the collection of high-quality 3-D seismic data but market forces are demanding that this data be collected at little expense and that the act of acquisition leave no "footprint" on the ground. This has, Barr points out, tested the industry's collective sense of humor but, as he also points out, dramatic progress has been made in all areas.

Frederick J. Barr earned bachelor's (1966), master's (1968), and doctorate (1970) degrees at Texas A & M University. During some of those summers, he enhanced his education by working on a bay-cable seismic crew that was conducting a long-term program covering the shallow bay systems along the Texas Gulf Coast. He performed every difficult and unpleasant task that the crew could gleefully assign a summer hire. He also gained a valuable understanding of seismic data acquisition and a deep, abiding appreciation for higher education.

After earning his doctorate, Barr joined the research department at Petty-Ray Geophysical where his focus was data acquisition. He steadily rose through the ranks of Petty-Ray and its successor, Geosource, and ultimately became the latter's Corporate Director of Technology. Geosource was later purchased by Halliburton which was purchased by Western Geophysical where Barr now works as manager of an R&D group specializing in data acquisition technology.

Barr has authored or presented many technical papers. He received SEG's Virgil Kauffman Gold Medal Award in 1995 for his key role in the development of the dual-sensor ocean-bottom cable system.

Mississippi Geological Society 1996 - 1997

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Engineering/ Environmental Committee

The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting is January 21, 1997. The speaker will be Dr. Noland B. Aughenbaugh from the Dept. of Geology/Geological Engineering at Ole Miss. His topic will be:

Earthline/Wilsonville, Illinois Haz-waste site.

BUSINESS MEETING LUNCHEON SCHEDULE

January 14, 1997	April 8, 1997
February 11, 1997	May 13, 1997
March 11, 1997	

BUSINESS MEETING LUNCHEON

Tuesday, January 14, 1997
 11:30 Capitol City Club
 Speaker Dr. Fred J. Barr
 Joint meeting: MGS and JGS

DON'T BE A DEADBEAT GEOLOGIST!

It's now membership renewal time- Please use the form on the back!

We want to thank all those who saw their names on our "I forgot" list and sent it their membership renewals. If your name is still on the list please take a few minutes and renew your support of the Society.

If this approach has made you mad, please bear in mind that the officers are only trying to get our membership aboard so that we can move forward with an ambitious year of talks and activities. If everyone will pull in the same direction our Society will not just survive, it will thrive. We need membership renewal by January 15 to be included in the 1996-'97 Membership Bulletin.

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MISSISSIPPI UPDATE: HORIZONTAL DRILLING

by Stephen D. Champlin, Energy Section, Mississippi Office of Geology

Since Amoco Production Company completed Mississippi's first two horizontal wells early in 1990 at Clear Springs Field, Franklin County, southwestern Mississippi, oil and gas operators have drilled a few horizontal wells in Mississippi, although not anywhere near the number of wells completed in the Texas Austin Chalk or other high activity areas. The total number of horizontal wells drilled in Mississippi since 1990 was not available to the author so for the purpose of this article only 1996 drilling activity has been reviewed.

In Mississippi, when someone mentions horizontal drilling, most oil and gas people think first of the Texas Austin Chalk fields with fractured reservoirs where horizontal drilling is used to connect multiple sets of fractures with one well bore. This technique is applied as a way to efficiently drain areas of the reservoir which would had not been tapped by the normally spaced drilling of conventional vertical wells. In addition to more efficient drainage, other potential advantages of horizontal drilling are generally higher rates of production, longer well life, and increased ultimate recovery. Other applications include the reduction of coning by water or gas, and reduction of sanding problems and movement of fines in the reservoir. This is accomplished by reducing the draw down pressures for pressure gradients near the well. There are numerous other situations and many reservoir types where horizontal drilling has been or could be applied.

The primary formations and reservoir types in Mississippi where horizontal drilling is being applied are clastic reservoirs in fields with Upper and Lower Cretaceous oil production. Operators are re-entering old vertical field wells for sidetracking and then drilling horizontally to reach areas of reservoir containing bypassed oil left behind because of either early lateral break-through by water or the vertical coning of water in the reservoir. The primary targets are sands in the Lower Tuscaloosa as shown on the following table of well completion data. The range of reservoir true vertical depths for 1996 Mississippi horizontal well completions is between 4,500 and 10,500 feet and the maximum horizontal displacement reached is approximately 1,973 feet.

According to the Southeastern Oil Review, there are fifteen permitted horizontal wells either listed as locations, drilling, testing, or waiting on orders in the December 9th, 1996 issue. Additionally, the Southeastern Oil Review reported thirteen horizontal wells having been completed so far this year. Two of these completions have been temporarily abandoned after testing non-commercial. A third well which had been permitted as a horizontal well was abandoned because of junk in the wellbore which prevented sidetracking.

For 1996, the most active operator involved in applying horizontal drilling technologies in the state is Coho Resources, Inc. The company is also one of the state's largest oil producers. Coho is responsible for almost 60% of the current year's horizontal drilling activity in Mississippi. Ten of the thirteen completed wells were operated by Coho as well as six of the fifteen other wells which are being drilled, tested or listed as locations.

With the number of apparently successful Mississippi horizontal well completions seen so far in 1996, more oil and gas operators may see other areas and applications for this technology in Mississippi. General information for the year to date on horizontal well completions in Mississippi is shown in tabular form including operator, well name and number, field, county, location, producing zone and interval, approximate horizontal displacement, total depth, and initial production. The sources for this information are the Southeastern Oil Review and the Mississippi Oil and Gas Board's monthly Mississippi Oil & Gas Production Reports, January through July of 1996.

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1996 HORIZONTAL WELL COMPLETIONS REPORTED THROUGH 12/09/96

OPERATOR WELL NAME	WELL#	FIELD COUNTY-LOCATION	PRODUCTION ZONE	INTERVAL MD	APPROXIMATE		INITIAL PRODUCTION OIL BOPD MCFGPD BWPD
					HORIZONTAL DISPLACEMENT TD MD(TVD)	MD	
Roundtree & Associates, Inc. C. C. Magnum	1	Raleigh Smith (Sec. 33-2N-7E)	Paluxy	9,511-10,354'	1,335'	TD 10,354' MD Hor. Hole	IPP: 118 0 166
Chevron USA, Inc. H. Morrison	4	East Heidelberg Jasper (Sec. 30-1N-13E)	Christmas Sd. (Eutaw)	5,657-6,320'	1,973'	TD 6,320' MD 4,929' TVD	IPP: 314 0 2,150
Coho Resources, Inc. SFU	19-A	Summerland Jones (Sec. 3-9N-14W)	L. Tuscaloosa	9,010-9,525'	1,088'	TD 9,525' MD Hor. Hole	IPF: 391 0 0
Coho Resources, Inc. City of Laurel 6-4	3H	Laurel Jones (Sec. 6-8N-11W)	U. Paluxy	10,240-478'	1,962'	TD 11,478' MD 9,825' TVD	IPP: 175 0 37
Coho Resources, Inc. City of Laurel 6-4	4H	Laurel Jones (Sec. 6-8N-11W)	L. Tuscaloosa Massiv	8,248-8,520'	1,032'	TD 8,520' MD Hor. Hole	IPP: 100 0 1,975
Coho Resources, Inc. LFU 1-1	6	Laurel Jones (Sec. 1-8N-12W)	Washita-Fred.	8,654-64'	1,562'	TD 13,332' MD Hor. Hole	IPP: 237 0 82
Coho Resources, Inc. MFU 15-16	1H	Martinville Simpson (Sec. 22-2N-5E)	None/Junk in wellbore which prevented sidetracking. T&A				
Coho Resources, Inc. BFU 4-6	2ST	Brookhaven Lincoln (Sec. 4-7N-7E)	Lower Tuscaloosa	10,347-352' 10,354-370' 10,395-410'	1,503'	TD 11,150 MD Hor. Hole	IPP: 128 0 6
Coho Resources, Inc. BFU 18-1	4ST	Brookhaven Lincoln (Sec. 18-7N-7E)	Lower Tuscaloosa	10,584-630' 10,768-776' 10,794-812' 11,050-090' 11,106-136'	1,473'	TD 11,150' MD 10,366' TVD	IPF: 191 200 0
Danbury Management, Inc. U. S. A. "H"	2	South Thompson Creek Wayne (Sec. 35-7N-19W)	L. Tuscaloosa Massiv	?-9,514'	1,674'	TD 9,514' MD 8,003' TVD	IPF: 314 0 1
Coho Resources, Inc. LFU 1-1	8H	Laurel Jones (Sec. 1-8N-12W)	U. Tuscaloosa	8,574-9,356'	2,082'	TD 9,356' MD	IPP: 106 0 5
Coho Resources, Inc. SFU 28-12	1-ZA	Soso Jasper (Sec. 28-10N-13W)	L. Tuscaloosa Massiv	8,776-9060'	706'	TD 9,180' MD Hor. Hole	Well unsuccessful. T&A
Coho Resources, Inc. SFU	4ST	Summerland L. Tuscaloosa Massiv Jones (Sec. 34-10N-14W)		9,080-9,180' 8,636-52'	1,175'	TD 9,226' MD Hor. Hole T&A	Tested non-commercial.

Source: Southeastern Oil Review and Mississippi Oil & Gas Board Monthly Oil & Gas Production Reports (1996, January through July).

MISSISSIPPI OFFICE OF GEOLOGY

MISSISSIPPI OFFICE OF GEOLOGY

P.O. Box 20307, Jackson, MS 39289-1307—2380 Hwy 80 W, Jackson, MS 39204
Telephone 601-961-5500

The following data page is a portion of a core and sample description report contributed by the Energy Section of the Office of Geology. The full report and abbreviation code is available from:

Mississippi Office of Geology
PO Box 20307
Jackson, MS 39289-1307
(601) 961-5500

File No.: 3022
County: Smith
Field: Shongelo Creek
Operator: Texas Eastern T.C.
Elev: 436'DF
Casing: 16" @39'; 10 3/4" 2900',
5 1/2" @13,747'
Tests: IPF 120B0 & 2 BWP, 1/4"ch
TP180#, CG 34

Pages: 8
Sec.:34-3N-8E
Loc:667'FNLx1975'FEL
Fee: #1 Harlie Clark
T. D. 13,805' PBD 10,666'
Perfs.: 10,535-550' (Rodessa)
Compl.Date: 2-14-67

Additional Tests:

Perfs:13,661-679' (Cotton Valley) Test:(DST) Open 191/2 hrs Rec. 1,425'of 40° oil, 2000' WC & 90' RHSW;BHFP 906-982, BHPSI 5,729-3,615#, HP 6,928- 6,965'. PB 10,857

Perfs:10,711-714' (Rodessa) Test:GTS/45 min.,WCTS/55 min. F/WC,SWBD est.400 B total fluid, 5-8' oil. BHFP 342#, BHPSI 4,906-4,881#, HP 5,435- 5,440#, Set BP 10,682'

Logged by: Jack Henderson CPG 1360#11-21-96

Tops(Operator)

Chalk	4,732'	Mooringsport	10,000'
Eutaw	5,983'	Rodessa Sd	10,418'(oil show)
L.Cret.	7,510'	CV	12,240'
Paluxy	8,650'	Salt	13,740'

Sidewall cores with oil shows:(Operator)

Rodessa: 10,418'-432', 10,440'-472'; 10,532'-553'; 10,700'-748'
CV: 1 3,657'-680'(20' porosity)

Comment:: The oil productive Rodessa sand, perforations 10,535'-550' has an almost uniform light brown oil stain, no fluorescence and a slow dull yellow fluorescent cut. The lower perforations (10,711'-714') in the Rodessa tested gas from a sand with very light brown spotted questionable oil stain and no cut. The poor quality of this show may be due to deterioration over time of sample storage(29 years). The sidewall cores through this interval were reported to have oil shows. The sand tested through perforations 13,661'-679' in the Cotton Valley, has only a very slight trace of staining and fluorescence and chlorothene cut limited to a very few, very small sandstone clusters

*These perforations produced 40 gravity oil and saltwater. Samples described without reference to e-logs.

Symbols: * Live(migrated)oil show
~ Source oil show(impermeable rocks-Shale,Siltstone, Limestone,etc.)
+ Dead oil show(i.e.,tar,asphalt,gilsonite,etc.)

SAMPLE DESCRIPTION

13,460'-13,480'	Sd,wht,clear,vFn-Fn gr,ang,tr.subang;Sh,dk red,vfm;tr.Ss,wht,vFN-Fn gr,NP
13,480'-13,500'	Sh,AA;Ls,wht,lt brn-m gry mottled,micritic, v sdy(Fn-M gr)in pt.
13,500'-1 3,530'	Sh,AA;tr. Ls(nodular),dk red,micritic;tr.Ls, AA(cvgs)
13,530'-13,550'	Sh,AA;Sd,wht,clear,vFn-Fn gr,tr.M gr,ang,tr. subang
13,550'-13,580'	Sh,dk red,vfm,silty in pt;tr.Ss,wht,vFn-Fn gr,prob.NP;tr.Ls(nodular),dk red,micritic
13,580'-13,610'	Sd,wht,clear,vFn-Fn gr,ang;Sh,AA
13,610'-13,620'	Sh,dk red,vfm;tr.Sd,AA
13,620'-13,630'	AA;tr.Ss,wht,vFn-Fn gr,extr.calc.,m flakes mica,NP
13,630'-13,640'	No Sample
13,640'-13,660'	Sh,AA;Sd,wht,clear,vFn-Fn gr,ang,tr.subang; Sh,AA
13,660'-13,670'	Sh,dk red,vfm,silty in Ig.pt;Sd,AA
*13,670'-13,690'	Sd,wht,clear,vFn-Fn gr,ang;tr.Ss(v.small clusters),lt brn,vFn-Fn gr,lt brn o.stn, spotted m-w fluor.,v.slow DY cut. Note: This show overlooked on original inspection, found only because of reported show-Ss almost completely disaggregated. Sd does not appear to be oil stained nor fluorescent.
*13,690'-13,710'	Sh,dk red,vfm;Sd,AA(cvgs?);tr.Ss w/O.S. ,AA
13,710'-13,720'	Sd,wht,clear,vFn-Fn gr,ang,tr.subang;Sh,AA
*13,720'-13,740'	Sh,dk red,vfm;Sd,AA:1 cluster Ss,lt brn,vFn Fr gr,lt brn,o.stn,v slow DY cut
Salt(reported)	
13,740'-13,750'	Sh,dk red,vfm;Sh,m-dk gry,vfm;Sd,AA;tr.Ls, wht,buff,micritic,v.sdy(vFn-Fn gr)

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Core and Sample Report (Continued from page 6)

13,750'-13,760' Sh,m-dk red,vfm,v.calc.in pt.
 13,760'-13,805' AA;tr.Ss,lt steel gry,vFn-Fn gr,ang,tr.M gr (rded),silty,calc.NP
 Note: No evaporites noted in samples


D.T. D. 13,805'

Samples described by: E.J. Henderson CPG#1360 11-21-96

ADDENDA

Sample interval across producing perforations (10,535'-550') and tested perforations (10,711'-714') of Rodessa sands.



- 10,350'-10,360' Sh,dk-vdk red,vfm
- 10,360'-10,370' Sd,wht,clear,tr.lt brn,vFn-Fn gr,ang;Sh,AA
- 10,370'-10,390' No Sample
- 10,390'-10,400' Sh,dk-vdk red,vfm;Ss,clear,wht,vFn-Mgr,ang-subang
- 10,400'-10,430' No Samples
- 10,430'-10,450' Sh,dk-vdk red, vfm; Ss, clear, wht, vFn-Mgr,ang-subang
- *10,450'-10,460' Sd,wht,clear,tr.lt brn,vFn-Fn gr,ang-subang, tr.lt o.stn,no fluor,v slow DG cut;Sh,AA
- *10,460'-10,470' S h , d k r d , v f m ; S d w/tr.O.S.,AA
- 10,470'-10,480' No Sample
- *10,480'-10,490' S d , w h t , c l e a r , F n - M gr,ang;tr.Ss clusters w/brn o.stn,AA(cvgs's?);Sh,AA
- *10,490'-10,540' Sh,dk-vdk red,vfm;Ss w/o.stn,AA(cvgs?)
- *10,540'-10,560' Sd,lt brn,tr.clear,vFn-Fn gr,Tr M gr,tr. subang,lt brn o.stn,no fluor,slow DY cut
- *?10,560'-10,600' Sh,dk red,vfm;Ss,wht,vFN gr,silty,NP;Ss,w/ tr O.S.,AA(cvgs's?)
- *?10,600'-10,610' Ss,wht,clear,lt brn,vFn-Fn gr,silty,NP;Ss, w/tr. O.S.AA(cvgs?)
- 10,610'-10,670' No Samples
- 10,670'-10,680' Ss,wht,v.lt tan(o.Stn?),vFn-Fn gr,silty,calc, NP;Sh,AA
- 10,680'-10,700' No Sample
- 10,700'-10,710' S s , w h t , v F n - F n gr,silty,v.calc.,NP,NS;Sd,wht, clear,Fn-M gr,ang;Sh,M
- 10,710'-10,720' Sd,wht,clear,vFn-Fn gr,tr.M gr,ang,tr.subang; Sh,AA
- 10,720'-10,730' Sh,dk red,vfm;Sh,lt steel gry, vfm, vfc, extr. calc;Ss,wht,vFn-M gr,ang-subang
- 10,730'-10,750' AA-decrease % lt gry,Sh



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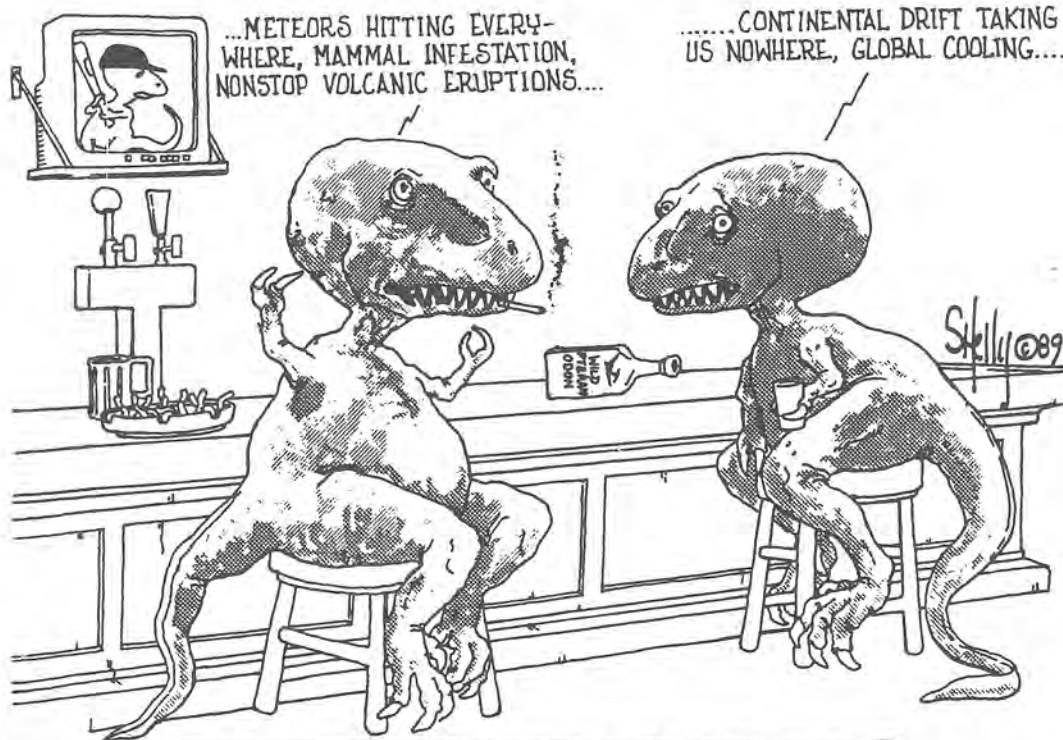
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Cartoon by Shelly Fischman

Shelly H. Fischman is a syndicated cartoonist (political and general humor) who is a member of The American Association of Editorial Cartoonists. He has been a consulting cartoonist & illustrator/contributing cartoonist and has been published widely, including such publications as The Washington Post; The Chicago Tribune; The Washington Times; Science 86; Bioscience; New Scientist; Policy Review, Washington, D.C.; Geotimes; Journal of Geological Education and Foreign Service Journal, Washington, D.C. We thank him for providing these cartoons through Lars Johnson.

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I am interested / am willing to serve:

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MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

VOLUME 45

NUMBER 6

FEBRUARY 1997

PRESIDENT'S LETTER —

by JACK MOODY

This Society year is flying by. We've hopefully achieved three of the four goals we aimed at this year. We're now turning our sights to the final target. On May 14, we will host an ice breaker, core exhibit, and prospect show in conjunction with our Cotton Valley Symposium. From the looks of things so far, I think this is going to be a really good show.

Please note on your calendar that our April meeting has been rescheduled for April 1, no fooling! Our regular date was in the middle of the Dallas AAPG convention. Speaking of AAPG, we need nominations to fill one of our two seats in the AAPG House of Delegates. We need qualified people who can attend the national conventions and represent the Mississippi Geological Society. Please send those names to me as soon as possible.

The Environmental Section held its meeting on January 21, 1997 at DEQ, and heard an interesting hazardous waste site talk by Dr. Aughenbaugh from Ole Miss. A good talk on how not to build such a facility. It is really enjoyable to hear about how important geology is to so many, many, different areas of life, not just my beloved oil and gas. If you don't make these gatherings you're missing out.

On February 20, the Mississippi Geological Society will present its first award for best student geology presentation at the Mississippi Academy of Sciences annual convention. I hope this will begin tradition between Mississippi Geological Society and our geology majors and graduate students.

Lastly and sadly, a word of remembrance for T.C. Rader, one of the Societies honorary members, who passed away. Certainly all of us who have attended the fall barbeque and spring flings have eaten of TC's fine cooking, always served with a smile. I wish we had some better way of remembering such long time loyal members. We do plan to publish a memorial next issue, which will be written by a close friend of TC's.

THE INFLUENCE OF PALEOTOPOGRAPHY, SEA LEVEL FLUCTUATION, AND CARBONATE PRODUCTIVITY ON DEPOSITION OF THE SMACKOVER AND BUCKNER FORMATIONS, APPLETON FIELD, ESCAMBIA COUNTY, ALABAMA

D. Joe Benson, Lisa M. Pultz, and D. D. Bruner
Department of Geology, The University of Alabama,
Tuscaloosa, Alabama 35487-0338
Abstract

Appleton Field is a Jurassic Smackover Field situated above two pre-Mesozoic paleohighs in the northern part of the Conecuh Embayment of southwestern Alabama. The interplay between paleotopography, sea-level fluctuation, and carbonate productivity controlled Smackover deposition in Appleton Field.

The Smackover Formation and the overlying Buckner Anhydrite Member of the Haynesville Formation were deposited in three depositional stages corresponding to periods dominated by marine transgression, aggradation, and progradation.

Lower Smackover deposition accompanied a rapid sea-level rise that inundated much of the paleotopography and produced a depositional system that was first transgressive and then aggradational in nature. Algal patch reefs developed around the periphery of the paleohighs and overlapped the features as sea level rose. Middle Smackover deposition accompanied a decrease in the rate of sea level rise. Tidal flat, lagoon, and shoal complexes formed in topographically higher parts of the field, while subwavebase sediments were deposited in deeper waters off structure. Short-term sea-level fluctuations produced seven shallowing upward packages. During upper Smackover deposition, carbonate productivity outpaced sea-level rise allowing the system to aggrade and prograde and producing deposits that are peritidal dominated. Short-term sea-level fluctuations produced shallowing upward packages capped in crestal locations by exposure surfaces. With continued sedimentation, supratidal sabkhas formed over the crests of the paleohighs and prograded offstructure during lower Buckner deposition. Short-term sea-level fluctuations produced a series of shallowing upward sabkha cycles. Development of coastal salinas or restriction of the northern Conecuh Embayment led to deposition of subaqueous evaporites in the upper Buckner.

Dr. Benson received his B.A. from the College of Wooster in 1968, his M.S and Ph.D. from the University of Cincinnati in 1971, and 1976 respectively. From 1973-1978 he was a research geologist, Lake Erie Section, Ohio Division of Geological Survey, Sandusky, Ohio; 1978-1984 Assistant Professor of Geology at the University of Alabama; and 1984-present Associate Professor of Geology at the University of Alabama, Tuscaloosa. Since 1990 he has served as Chairman of the Department of Geology.

reprinted from the Transactions of the Gulf Coast Association of Geological Societies, 1996, vol. XLVI, p. 15.

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The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting is March 18, 1997.

BUSINESS MEETING/LUNCHEON SCHEDULE

March 11, 1997

April 1, 1997

May 15, 1997

Cotton Valley

Symposium and Spring Fling

BUSINESS MEETING LUNCHEON

Tuesday, February 11, 1997

11:30 Capitol City Club

Speaker Dr. Joe Benson

Geology (Smackover stratigraphy and facies) of
 Appleton Field Southwest Alabama.

Cotton Valley Symposium and Spring Fling

May 14 (evening ice breaker) and May 15, 1997 (symposium)

Agriculture and Forestry (and Petroleum) Museum on Lakeland Drive, Jackson, MS

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Core Display

Limited to 1st 100 reservations, pre-registration only

\$90.00 per person

Includes ice breaker with core exhibit and prospect show on the eve of the 14th,
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Followed by JGS golf tournament Friday, May 16, and Bahamas Field Trip Led by
 Larry Baria beginning Saturday, May 17-24

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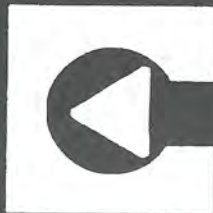
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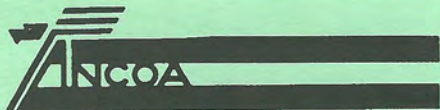
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SPECIAL VOLUMES

Wilcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350p, 1969.
 MGS 001SV\$28.00
Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II, Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.
 MGS 003SV\$50.00
Volume II in Separate Sections:
Volume II, Includes Supplement 1, Maps and Producing data on 77 fields, 143 p., 1963.
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 MGS 006SV\$25.00
Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III, Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.
 MGS 007SV\$50.00
Supplement for Volume III, Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.
 MGS 008SV\$25.00
Oil in the Deep South, A History of the Oil Business In Mississippi, Alabama, and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.
 MGS 020SV\$35.00
FIELD TRIP GUIDEBOOKS
Upper Cretaceous Outcrops, Northeast Mississippi and

West Central Alabama, 14th Field Trip, 29 p., May, 1959.
 MGS 101 G\$4.00
Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.
 MGS 103G\$2.50
The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.
 MGS 104G\$5.00
Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.
 MGS 105G\$8.00
Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central 33rd Annual GCAGS Meeting, 40 p., 1983.
 MGS 106G\$7.50
The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day

field trip. 18th Field Trip Guidebook, 69 p., April, 1991.
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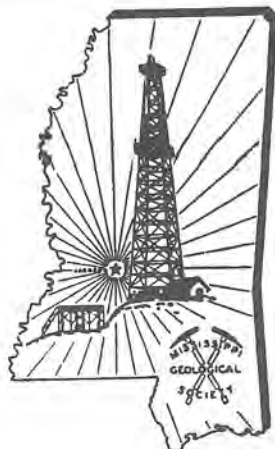
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VOLUME 45

NUMBER 7

MARCH 1997

PRESIDENT'S LETTER—

by JACK MOODY

Can you imagine the anticipation of the breaking of dawn if you had just posted through a long and terrible night? The first indication of dawn's arrival would thrill the heart, even if it were only the slightest beginning. The experiences of the past 10 years work hard on me to deny the dawning of the oil business once again. Nevertheless, the signs are so widespread I can't help but feel an element of excitement. While shopping for a vehicle this weekend, I heard fisherman complaining about the difficulty of getting lodging in southern Louisiana because the offshore oil is so strong that all the rooms are being rented by oil field workers. Broke my heart.

My thoughts also have wandered in the direction of what the dawning industry will be like. It has changed and will undoubtedly continue to do so. What I've wondered about is how the technology of today and tomorrow will affect the proverbial oil finder? That is the person who ends up finding most of the oil, the one of whom it is said that 10% of the people find 80% of the oil. Will the art that those people possess be spread out to the other 90% of the people due to greatly enhanced technology? I would think the 10% will get even better and perhaps the balance will remain but a lot more oil will be found. It is not hard to imagine how enhanced technology will continue to enable this industry to find plenty of oil at a low finding cost. For those who are still in the hunt, I truly hope it will be as much fun as it once was.

I would like to thank Mike Spooner, Ralph Hines, David Miller, Jr., George Vockroth, and Clinton Graham for appearing before Representative Terry Brown's subcommittee in order to show their support for funding a project to collect all the well information that can be found for Mississippi's oil and gas wells. If this project were funded and achieved a reasonable level of success then all of you oil finders could spend your time finding oil rather than chasing data. Thanks to the guys mentioned above, the proposal made it out of subcommittee.

One of the changes we'll see in the dawning industry will be on the way the value of the production is determined. The Feds are working on collecting a lot of money for past sins in this arena. They are proposing new rules which will lean toward NYMEX price averages or some other mix of crude price indicators. Due to all of the law suits now pending, the oil companies are not saying much about the issue.

When marking your calendar, don't forget May 14 and 15 for the Cotton Valley Symposium followed by our Spring Fling. Also mark March 18 to hear Dr. Greg Stone talk about hurricane effects on the Florida and Louisiana coast at the environmental committee meeting at DEQ..

PETROLEUM POTENTIAL OF THE BASEMENT ROCKS OF MISSISSIPPI

Denny W. Harrelson, Waterways Experiment Station, Vicksburg, MS

The petroleum occurrences of Mississippi are found predominately in sedimentary basins such as the Mississippi Salt Dome Basin, the Black Warrior Basin and several minor basins such as the Desha, Perry or Miste Basin. Larger fields are typically found in the Clastic or carbonate reservoirs within the above mentioned sedimentary basins, but smaller occurrences can be found in igneous and metamorphic (I.E. basement) reservoirs, provided the thermal history and petroleum formation conditions are adequate for hydrocarbon generation and secondary porosity is present. In Mississippi, all sedimentary basins are underlain by basement rocks that are of granite affinity or, in localized areas, metamorphic composition. In areas where these basement rocks exert structural or stratigraphic influence on the overlying rocks, there is the possibility of petroleum occurrences. Conditions necessary for petroleum occurrences of these types include weathered igneous or metamorphic rocks that are topographically higher than the source rocks, or a regional unconformity located between the igneous or metamorphic rocks and the overlying source rocks that can serve as a possible petroleum migration path. Examples of such areas include the Wiggins Anticline, Mississippi Sound, and the flanks of the Jackson Dome, Sharkey Platform and Yocona Dome.

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Engineering/ Environmental Committee

The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting is March 18, 1997, when the speaker will be Dr. Gregory Stone from LSU. (*Abstract below*)

BUSINESS MEETING/LUNCHEON SCHEDULE

April 1, 1997

May 15, 1997

Cotton Valley

Symposium and Spring
Fling

BUSINESS MEETING LUNCHEON

Tuesday, March 11, 1997

11:30 Capitol City Club

Speaker Danny Harrelson

Morphological Signature of Severe Hurricanes; Northern Gulf of Mexico Coastline.

Dr. Gregory W. Stone, Director: Coastal Morphodynamics Laboratory, Howe-Russell Geoscience Complex, Louisiana State University, Baton Rouge, LA 70817

Two tropical cyclones, Andrew and Opal, similar in strength, made landfall in Louisiana (1992) and Florida (1995) respectively. Although the respective sea-state in the Gulf of Mexico was largely comparable, the morphological response of barrier islands in both locations was significantly different. The Isles Dernieres in Louisiana underwent among the most significant morphological change with erosion approximating $85 \text{ m}^3 \text{ m}^{-1}$. The vast majority of sand was stripped entirely from the barriers, transported into the adjacent bay exposing the barrier platform mud core. Landward translation of the shoreline was typically 25 m. Hurricane Opal made landfall along Santa Rosa Island, Florida. Landward translation of the barrier shoreline was minimal and between 95-99% of sediment eroded from the beach-dune system was accounted for in extensive overwash deposits. Volumetric loss of 33 m^3

m^{-1} was measured, although net gain of $6 \text{ m}^3 \text{ m}^{-1}$ was also calculated. Although the Isles Dernieres were significantly lower in pre-hurricane elevation ($<2\text{m}$) than Santa Rosa Island (approximately 5 m), each of the barriers were submerged during the peak surge phases. While this explains the classic overwash response of the respective barrier systems to the hurricanes, a satisfactory explanation for the substantially greater volume of sediment removed from the Isles Dernieres has not yet been derived. The data also suggest that redistribution of sediment offshore is not necessarily coincident with hurricane landfall along barrier island coasts. Post-storm recovery rates at both sites are significantly different as a direct function of sediment availability in the nearshore. These data have important implications for barrier island response and recovery in neighboring states including Mississippi and Alabama.

T. C. Rader, 1928-1997

Mississippi Geological Society Honorary Life Member

Thurston Connell Rader, known to most of us as T. C., died at his home on January 20, 1997 after a courageous battle with cancer.

T. C. was born in Jeanerette, Louisiana, on July 16, 1928, and spent his early years in New Orleans. Upon graduation from high school in 1944, he enrolled at the University of Southwestern Louisiana in Lafayette. After completing three semesters of academic study, he entered the oil and gas industry as an employee of Halliburton Industries, working as a laboratory specialist. In 1950, he married Marjorie Randall. While working for Halliburton and rearing a family, he pursued his education and was granted a degree in Petroleum Engineering from the University of Southwestern Louisiana.

After graduation, T.C. worked for Halliburton as a sales engineer. His first assignment in Mississippi was in Laurel. Other assignments were to Houma, Shreveport, and Haynesville, Louisiana. In 1970 he was transferred to Jackson as Area Sales Engineer.

T.C. retired from Halliburton in 1979 and joined CLARKCO Contracting, Inc. as Vice President in charge of sales and engineering. Also, during this time, he became affiliated with Triad Oil & Gas Company. In 1990 he formed Enmark Energy, Inc., which is engaged in pipeline engineering operations and process plant design and management. He was president of Enmark until very recently when declining health would not permit him to continue an active role in the company. T.C. was also a practical engineer. A friend of his remarked "there was nothing broken that T.C. couldn't fix."

He was a member of the Society of Petroleum Engineers and the Mississippi Geological Society. In 1990, the Geological Society made him an Honorary Life Member in appreciation of his many years of exemplary service to the organization. He held the longest committee assignment ever in the Geological Society. For over twenty years, T.C., as chairman of the entertainment committee, provided members and guests at the annual Fall Barbecues and Spring Flings with the most delicious shrimp, oysters, crawfish, gumbo, ribs, and other delicacies, along with great entertainment.

T.C. was an active member of St. Richards Catholic Church. He was also a member of Colonial Country Club, Capital Club, and the University Club.

Survivors include: wife, Marjorie, daughters, Deborah Shaidnagle and Therese Collins, both of Madison; sons, Connell Rader and Barclay Rader, both of Madison, Greg Rader of Columbus; sister Helen Gianelloni of Napoleonville, La.; brother, Norris Rader of New Iberia, La.; and fourteen grandchildren.

Memorials may be made to Hospice of Central Mississippi, 2600 Insurance Dr., Suite B120, Jackson, MS 39216-4911.

NEW SGS REFERENCE VOLUME

The Board of Directors of the Shreveport Geological Society has approved plans to publish a new reference volume of ARK-LA-TEX and Mississippi oil and gas fields. The last volume was printed in 1987 (Volume VII). Activity in the last ten years combined with new technology such as 3-D seismic, advanced logging tools and improved stimulation and completion techniques has resulted in numerous new field discoveries and revitalized production from existing fields. The SGS is seeking volunteers to submit field evaluations for publication and suggestions from the membership for fields to be included. If there is a particular field you would like to see published, let us know.

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Tiger Field

A symposium on Cotton Valley producing fields, exploration history, trap mechanisms, depositional environments, current exploration technology, and future trends. Featuring industry speakers active in Cotton Valley exploration, plus core displays and a prospect show. If you are interested in or actively engaged in Cotton Valley exploration, **you need to attend.**

Where: Agriculture & Forestry Museum, Jackson, Mississippi

When: May 14 - 15, 1997

Cost: \$90

Pre-registration required - attendance is limited

Send registration fee payable to: Miss. Geological Society along with Name, Address, Phone, and Fax Number to:

Mississippi Geological Society

P. O. Box 422

Jackson, MS 39205-0422

For information, call:

Steve Champlin (601) 961-5506 or: Steve Oivanki (601) 961-5518

Symposium Itinerary:

May 14th, 7:00 pm: Ice Breaker with core display and Cotton Valley prospect show

May 15th, 8 am -4 pm: Symposium with 9 speakers and core presentations + lunch

May 15th, 4:30 pm: Annual MGS Spring Fling with catfish dinner

May 16th: Jackson Geophysical Society Golf Tournament

May 16th - May 24th: Bahamas Modern Reef Analog Field Trip with Larry Baria

If you have a Cotton Valley Prospect anywhere in the Gulf Coast you would like to sell, this is your chance to show it to all the active Cotton Valley players at one time. Call for details about the prospect show.

1997 CARBONATE FIELD TRIP OUT ISLANDS, BAHAMAS

Beginning May 15, 1997, the Mississippi Geological Society will host a carbonate field trip to the Out Islands of the southern Bahamas. Participants will study pinnacle reefs, fringing reefs, patch reefs, oolite shoals, tidal flats, eolian dunes, beaches, and many other styles of recent carbonate facies and depositional environments. The trip will be structured to present as many Smackover, Cotton Valley, and James Lime analogs to active gulf coast exploration trends as possible.

Certainly on a trip to the Bahamas, MGS spouses will also be invited to go along. While the participants are out swimming, wading and hiking each day, the spouses can enjoy beautiful pink sand beaches, island tours and laid back Out Island hospitality.

The anticipated cost of this eight day trip, including round trip airfare from Jackson to Nassau, air charter services between New Providence, Great Exuma and Long Island, hotel, meals, three and one half days of boat rental and all land transportation, will be \$1,750 per participant.

Below is a detailed daily schedule of the proposed field trip. If you have questions about the excursion or want to sign up, contact Larry Baria at 352-5562.

Day 1: Our Group will fly from Jackson, Mississippi to Nassau, New Providence Island, Bahamas. There, using an air charter service we will fly from Nassau to Georgetown, Exuma Island. Five to ten minutes out of Nassau, after flying over shallow shelfal muds and muddy sands, we will intersect the line of rocks and cays which form the Exuma Island chain fringing the Bahamas Platform where it abruptly meets the deep water of Exuma Sound. We will fly low over these cays so you can observe and photograph the numerous shelf edge deposits of reefs, oolite tidal bars and deltas, Pleistocene eolian dune ridges, and present day beaches, turquoise lagoons and green tidal ponds. The approach to Great Exuma Airport will bring us over a mixed facies of shallow platform muds, small coral and sponge banks, and storm deposited waves of carbonate sand, before finally touching down just beyond the leeward tidal flats. The group will then head to the pink stucco Peace and Plenty Hotel for a relaxing rum punch and order of conch fritters. The Peace and Plenty Hotel is owned and operated by Bahamians; the meals are generally seafood with a spicey local flare. You can use the remainder of the day to explore 17th century Georgetown and walk down to the straw market, set up under the giant oak tree in the center of town. Return to the hotel for dinner and a brief orientation on the carbonate environments which we have flown over and will be swimming and wading across in the next few days.

Day 2: In the morning we will ride overland to the northern tip of the island to Barre Terre where we will board boats to take us out to Lee Stocking Island and Normans Pond Cay for a full day of snorkling and wading. We will float over and sample oolite sand shoals and lee island beaches and make a few stops to sample muddy platform sediments and their indigenous flora and fauna. Once the tide turns and begins flooding the platform, we will go out to the seaward head of a channel and drift in over the spectacular and recently publisized (National Geographic, 1994) lower intertidal algal stromatolites. In the afternoon we will visit the tidal flats and old salt works at Normans Pond Cay. On our way back to Barre Terre we will make a snorkling stop at some of the very shallow patch reefs and rocks where coral, sea fans and colorful fish abound.

Day 3: Board boats in the morning at the hotel dock and head south for a half day of snorkling on patch reefs and shoal areas in a broad open lagoon environment. We will make note of the types of flora and fauna and the associated bioclastic sand they generate. At mid day we will return in time to catch a shuttle boat to the hotel's outer island where we will eat lunch, then spend the afternoon hiking and wading over Holocene hurricane spillover deposits, active oolite shoals, and shallow intertidal to lower shore face algal stromatolitic build-ups. We will also get a close up view of Pleistocene eolian dune sedimentation in the many pocket beaches and coves on the windward side of the island.

Day 4: Your morning schedule is open... revisit the beaches, charter a half day fishing or diving trip, or follow me on a snorkling excursion to Three Sisters Rocks. In mid afternoon we will take a chartered flight over to Long Island, skirting the south edge of Exuma Sound and land at the Stella-Maris Resort Complex. We will be flying over some of the stops we have made in the past few days as well as a few of the ones we will visit tomorrow and the next day. Stella-Maris is owned and operated by a German company where the continental food and wine selection is very good.

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Continued from page 6
1997 CARBONATE FIELD TRIP
OUT ISLANDS, BAHAMAS

- Day 5:** In the morning we will all board the autobus and ride to the Stella Maris marina where we will go out on one of the large 60'-70' dive boats for a day long snorkling trip (shallow diving is optional for those certified). Stops will include both open shelf patch reefs and fringing reefs on the Atlantic side of the island and a lunch stop at Santa Maria Beach, one of Columbus's designated moorings. After returning to the hotel we will take a short hike down to the beach to examine the critters found in the high energy tidal pools along the Atlantic shore.
- Day 6:** Again we will board the autobus and ride down the island to visit some karsted features and caves where an excellent "insight" to eolian dune stratification can be seen. The second stop will be at Salt Pond, a nice little pocket beach also carved out of Pleistocene dunes. The third stop of the day will be at the expansive evaporative salinas and sebkhas developed in the sheltered southeast hook of Long Island. We will return to the hotel for a late afternoon orientation regarding the Long Island sediments and environments of deposition which we have visited.
- Day 7:** Early in the morning we will again board the dive boat and head east, out into the Atlantic where the Conception Island complex rises out of 6,000' of water to form a pinnacle reef type analog. We will make several traverses from bathyal to neritic depths and snorkel (diving is optional) over some of the most luxuriant reefs in the Caribbean. This trip will last the entire day because the reefs lie nearly twenty miles east of the Long Island platform.
- Day 8:** We will depart in the morning and fly back to Nassau where participants may choose to either return to Jackson, spend the day in Nassau to do tourist things, or fly out to other islands, ie, Cat, San Salvador or Crooked Island to extend your carbonate fieldtrip.

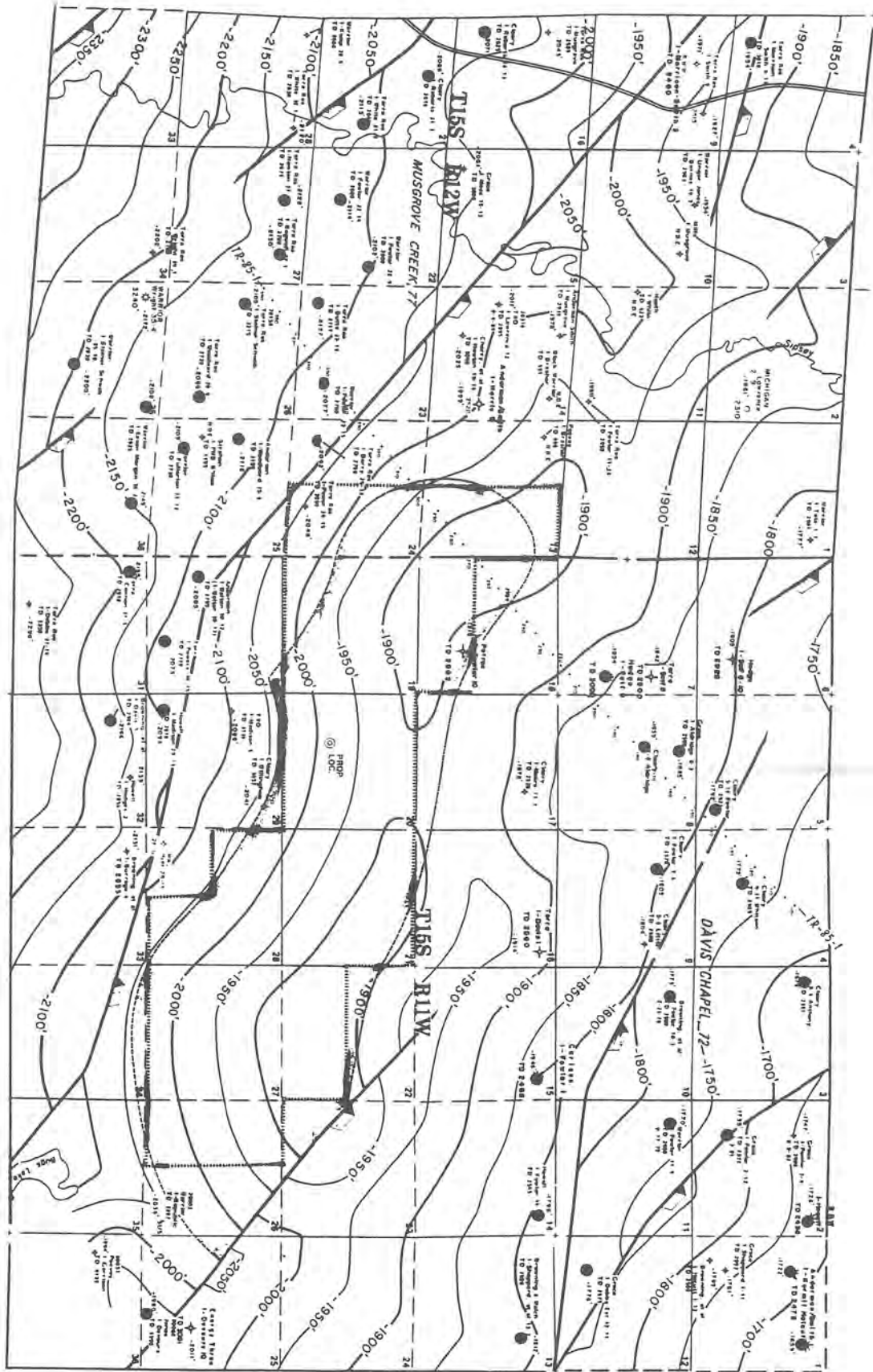
MISSISSIPPI GEOLOGICAL REGISTRATION TASK FORCE COMMITTEE NEWS
UPDATE - FEBRUARY, 1996
by Rick L. Ericksen

As of February 13, the Geological Registration bill passed the House with an impressive 86 to 28 vote. By the time that you read this the bill (HB 953) will have been assigned and acted upon by a Senate committee. Of the more significant events when led up to the final vote in the Mississippi House of Representatives one item of misinformation was brought to my attention. For those of you who are petroleum geologist the following are verbatim excerpts from Section 4 of the bill: "The following (activities) shall not require registration...Geological work performed exclusively in the exploration for and development (proving out) of petroleum resources, including the giving of testimony, or preparation and presentation of exhibits or documents regarding petroleum resources for the sole purpose of consideration by, or being placed into evidence before, any administrative agency, judicial tribunal or public hearing"... This provides a clear exemption for those geologists, unlike Alabama which recently passed a geological registration law. Our bill is concise and crystal clear concerning petroleum geologists. **Petroleum geologists are exempt from registration, period.** If you are a petroleum geologist you may register if you desire, but it is not required to practice your profession or testify before the Mississippi State Oil and Gas Board. If you would like to review the bill in its entirety on the Internet it can be found at the MMRI website at the following address:

<http://www.olemiss.edu/depts/mmri>

This registration effort has received support from the Mississippi Geological Society, Natchez Geological Society, AAPG/DPA, AEG, AIPG, all of the geological departments of the state's universities and the Mississippi State Board of Registration for Professional Engineers and Land Surveyors to name just a few. Should you have any questions, comments, or need additional information on how to contact the Committee's chairman, Rick Ericksen at the following address:

Rick Ericksen, Chairman
P.O. Box 254
Ridgeland, MS 39158-0254
Phone - (601) 961-5507



This is the prospect map for what became Heartline Field in Fayette Co., Ala. An observant local geologist, Rick Ericksen, thought an updip log appeared to have a sand streak that correlated with a thin sand in a downdip well. After Rick confirmed the presence of sand in the samples, Pruet drilled the discovery well and found a stratigraphic trap that has produced 5.63 BCFG as of 10-7-96.

File No. 4434
County: Jefferson
Field: Rodney

Operator: Pennzoil Prod.
& Lone Star
Elev.: Ill' DF
Spud: 9-30-74
Casing: 16" @ 589'; 10 3/4" @ 7652;
7 5/8" @ 17,946'
Perf: 9334-50' (L Tusc.)

Pages: 4
Sec. 6-ION-IW
Loc.: From SE/cor. Sec. 6, go
westerly alg/L for 2049',
th N'ly @ RA 471' to Loc.
Fee: #1 Piazza
D.T.D.: 20,704'
Compl: 5-22-75 D & A
Test: F 600 BWD w/sl.SG

SAMPLE DESCRIPTIONS

Samples start at 18,300'(30' intervals)

In CV	Description
18,300-18,330'	Ss, wht, lt gry, silty, vfm, rare vfc; Ss, pale reddish-brn, vFn gr, v silty, v sl calc, glassy in small %, hard; Sh, lt-m red, reddish-brn, v silty in pt; Sh, lt-m gry, vfm, rare vfc: (crushed) NS
18,330-18,360'	Sltst, lt-m red, v argill, vfm & scatt, med. flakes, glassy in pt. l Qtz crystal
18,360-18,390'	Ss, wht, vFn gr, in pt, vFn-Fn gr, tr M gr, ang, silty; Ss, lt gry, vFn gr, silty, glassy in pt, v hard; Sltst, lt gry, vfm, tr m red sh laminae; Sh, m red, vfm, v silty
18,390-18,420'	Sh, dk red, vfm; Ss, wht-lt gry, vFn gr, silty; Ss, lt red, vFn gr, silty, argill, sl calc.
18,420-18,450'	Ss, wht, lt gry, vFn-Fn gry, extr silty, glassy in pt, tr dk gry Sh laminae; Ss & Sh, AA
18,450-18,510'	Ss, AA except vFn-M gr, ang-subang, v silty; Sh, AA; Sh, m-dk gry, vfm
18,510-18,570'	Sh, m-dk red, vfm, silty; Ss, AA; Ss, lt gry-wht, vFn gr, v silty; Sltst, lt gry, vfm, tr dk gry Sh laminae
18,570-18,600'	Sh, m-dk red, vfm; Ss, wht, vFn-Fn gr, v silty; Sltst, lt-m red, argill, vitro.
18,600-18,690'	Sltst, lt gry, vfm, argill, sl calc. tr Sltst, AA; tr Sh, AA
~18,690-18,750'	Ss, wht, vFn-Fn gr, silty; Sltst, AA; Sltst, lt-m gry, vfm, vfc: (crushed) v sl tr DY RR; Sh, AA
~18,750-18,810'	Ss, AA; Sh, dk gry, vfm, vfc: (crushed) v sl tr DY RR
18,810-18,870'	Sh, m-dk gry, vfm, vfc in pt; Ss, AA; Sltst, lt grysh-brn-m brn, glassy, hard
18,870-18,930'	Ss, wht, vFn gr, extr silty; Sltst, lt gry, lt brnsh-gry, m gr, vfm in pt; Sh, dk gry, vfm
18,930-18,960'	Sltst, wht, vfm; Sltst, lt gry, vfm, argill
18,960-18,990'	AA; Sh, dk gry, vfm
18,990-19,050'	AA-decrease % Sh
<u>Haynesville(?)</u>	
19,050-19,080'	Ss, wht, vFn-Fn gr, tr M gr, v silty, "glassy" in pt, non-calc; tr Sltst, AA

Logged by: Jack Henderson CPG #1360 2-8-97

Tops(Operator)

WX	3484'	James Ls	13,800'
Midway	6574'	Hoss	14,500'
Austin Chalk	8161'	CV	18,148'
L.Tusc.	9274'		

Core Description:(Operator)

Core No. 1. (L.Tusc.): 9406-65' Rec. 22' Sh
Core No. 2. (James): 13,908-968' Rec. 60' ND
Core No. 3. (CV): 20,679-704' Rec. 5' ND

Comment: Samples start at 18,300'(at 30' intervals). One of the logs in the Cotton Valley study by Steve Oivanki. The dark gray shales, anhydrite and limestone from 19,050' to total depth suggest Haynesville beds. The pelletal -oolitic limestones appear to be analogous to older Jurassic carbonates.

Symbols: *Live(migrated)oil show Source oil
~show (impermeable rocks-Shale, Siltstone, Limestone, etc.)
+Dead oil shows(i.e., tar, asphalt, gilsonite, etc.)

Abbreviations:	ign (igneous)
AA (as above)	LCM (Lost Circulation Material)
ang (angular)	Ls (Limestone)
asph (asphaltic residue)	Mdst (Mudstone)
calc (calcareous)	Ss (Sandstone)
Cs (course)	Sd (Sand-unconsolidated)
NS (No Show)	Sh (Shale)
o.stn (oil stain)	stn (stain)
qtz (quartz) (quartzitic)	vDGF (very dull golden fluorescence)
RR (Ring Residue)	vfc (very finely carbonaceous)
Sltst (Siltstone)	vfm (very finely micaceous)
DGF (dull gold fluorescence)	volc (volcanic)
Dolo (Dolomite or dolomitic)	wlv (water lain volcanics)
extr (extremely)	xln (crystalline)
Foss (fossiliferous)	Y (Yellow)
frags (fragments)	
G (Gold)	
gr (grain)	

Continue from page 13
MISSISSIPPI OFFICE OF GEOLOGY
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19,080-19,110'	Siltst,lt-m red,glassy;Siltst,lt gry,vfm, argill;Ss,AA;tr Sh,dk gry,vfm	20,100-20,130'	Ls, lt gry, buff, pelletal & tr oolites(blk), vFn xln, micro-sucrosic; Ls & Sh, AA
19,110-19,260'	Siltst,AA;Sh,dk gry,vfm	20,130-20,160'	Ls, pelletal, AA-decrease % Sh & micritic Ls
19,260-19,290'	Siltst,lt gry,buff,vfm,non-calc	20,160-20,220'	Ls,lt tan,oolitic(m-dk brn),vFn xln(micro-sucrosic)in pt,micritic in pt;Ls,AA
19,290-19,350'	AA;Sh,m-dk gry,vfm,vfc in pt	20,220-20,250'	Ls,dk brn,dk gry,lithographic in pt,micritic in pt.hard, platy; Ls, buff, whitish-gry, chalky; tr Ls,pelletal,AA
19,350-19,440'	Ss,wht,vFn-Fn gr,silty,glassy in pt;Ss,wht, buff,vFn-M gr,silty,glassy in pt;tr Anhy, wht,v soft	20,250-20,310'	Ss,wht,tr lt gry,vFn gr,v silty,ang,non-calc.;tr Ls,AA
~19,440-19,470'	Siltst,lt gry,buff,tr blk Sh laminae;Sh,m-dkgry,vfm,vfc,sl calc:(crushed)sl tr DY RR;tr Anhy,wht,v soft:(crushed)tr DY RR	20,310-20,340'	Ls,lt tan-lt brn,pelletal,tr oolites,(dk brn),vFn xln;Sh,m gry,vfm,v sl calc,spltry
19,470-19,530'	AA-increase % Anhy & increase % Sh	20,340-20,370'	Sh,lt steel gry-m gry,vfm,extr silty, splintery;Marl,lt gry,speckled blk,(carb?), soft,extr calc.;Ls,AA
19,530-19,590'	Anhy,wht,powdery,vFn xln in small %;Siltst, AA;Sh,m-dk gry,vfm	20,370-20,400'	Ls,lt-m gry,lt brn,pelletal(blk),vFn xln;Ls, whtsh-gry,buff,vFn xln;chalky,Ls,dk gry-blk,micritic,vFn xln in pt.,v argill
19,590-19,650'	AA-increase % Sh & Siltst	20,400-20,490'	Ls,whitish-gry,buff,tr lt tan,blk speckled (carb?),chalky-vFn xln;Ls,dk gry,blk, micritic,v argill;tr Ls,pelletal,AA
19,650-19,680'	Siltst,lt gry,wht,vfm;Sh,dk gry,vfm;tr Anhy, AA	20,490-20,520'	Ls,AA;Siltst,lt-m gry,vfm,argill in lt %, sl calc;Ss,wht,vFn gr,v silty,tr small Sh incl;sl calc,vfm;Ls,dk gry,blk,micritic,v argill
19,680-19,740'	AA-decrease % Sh,dk gry;Sh,lt-m gry,vfm	20,520-20,538'	Siltst,wht,whitish-gry,vfm;Ss,wht,vFn gr,v silty,vfm,sl cal;Sh,lt-m gry,vfm,v silty
19,740-19,770'	Sh,dk gry,tr blk,vfm;Siltst & Sh,AA	20,538-20,570'	Sh,lt-m gry,vfm,sl calc,silty in pt;Siltst, AA Note:Lg mica flakes(LCM)
19,770-19,800'	Siltst,lt gry,wht,vfm;Sh,lt-m gry,vfm	20,570-20,600'	Sh,m gry,vfm,v silty
19,800-19,860'	Ss,wht,buff,vFn gr,v silty;Siltst & Sh,AA	20,600-20,630'	AA;tr Ss,lt tan,wht,vFn gr,v silty,extr calc
19,860-19,890'	AA-except Ss in vFn-Fn gr;Sd,buff,vFn gr & silt	20,630-20,660'	Sh,m gry,vfm,v silty
19,890-19,920'	Sh,lt-m-dk gry,vfm;Siltst,lt gry,vfm in pt, extr calc in pt;tr Qtz xls(twinned)	20,660-20,690'	Sh, lt-m gry, vfm, splintery, calc; Ss, wht, vFn gr, extr silty, sextr calc
19,920-19,950'	Siltst & Sh,AA;tr Ls,dk brn-blk,dense,tr acicular xls,(foss frags?);tr Ls,wht,chalky; tr Ls,lt tan,acicular xls(foss frags?)	20,690-20,704'	Sh, lt-m gry, vfm, splintery ;tr Sh,dull, dk reddish-brn, choc.brn, v soft, prob.cvgs-frags are rded)Note:Abund lg frags gry splintery Sh,cvgs.
19,950-20,010'	Ls,grysh-brn,lt brn,blk speckled(pellets), chalky in pt,vfnly sucrosic in small %;Sh,m-dk gry,vfm;Ls,AA:(crushed)NS		
20,010-20,040'	AA;Ls, m-brn,pelletal(dk brn-blk), vFn xln, sucrosic,dolo		
20,040-20,070'	AA;tr Ss, wht,vFn gr,vfm,calc		
20,070-20,100'	Ls, m-dk gry,lt brn,dense,microxln;Sh,m gry, vfm,splintery		

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SPECIAL VOLUMES

Willcox Fields of Southwest Mississippi, Maps and production data on 171 fields, in ring binder, 350p, 1969.
 MGS 001SV\$28.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume II, Maps and producing data on 146 fields, in ring binder, 361 p., 1963-1980.
 MGS 003SV\$50.00

Volume II In Separate Sections:
Volume II, Includes Supplement 1, Maps and Producing data on 77 fields, 143 p., 1963.
 MGS 004SV\$15.00

Volume II, Supplements 2 through 7, Maps and producing data on 35 fields, 110 p., 1964-1972.
 MGS 005SV\$25.00

Volume II, Supplement 8, Maps and producing data on 34 fields, 108 p., 1980.
 MGS 006SV\$25.00

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III, Includes discovery, structural, and lithologic summaries along with reservoir parameters and production data on 55 selected fields. Each field summary is accompanied by a structure map and a type log. In three-ring binder, 166 p., December, 1986.
 MGS 007SV\$50.00

Supplement for Volume III. Contains information, structure contour maps, and type logs on 19 fields—six in Alabama, two in Florida, and eleven in Mississippi. 45 p., 1992, heavy stock, punched for binder.
 MGS 008SV\$25.00

Oil in the Deep South. A History of the Oil Business In Mississippi, Alabama, and Florida, 1859-1945, by Dudley J. Hughes. A statistical and chronological summary of the evolution of the petroleum business in the southeastern United States. Includes personal stories of the companies, entrepreneurs, promoters, investors and workers who played major roles in the development of the oil business from its inception in the early 1900s to 1945. Hardbound book, 267 p., 1993.
 MGS 020SV\$35.00

FIELD TRIP GUIDEBOOKS

Upper Cretaceous Outcrops, Northeast Mississippi and

West Central Alabama, 14th Field Trip, 29 p., May, 1959.
 MGS 101 G\$4.00

Recent Sedimentation on Horn Island, Mississippi and Stratigraphy of the Quaternary and Upper Tertiary of the Pasacoula Valley, Mississippi, 10th Annual GCAGS Meeting, 24 p., 1960.
 MGS 103G\$2.50

The Paleozoics of Northwest Arkansas, 16th Field Trip, 48 p., May, 1962.
 MGS 104G\$5.00

Mississippian Rocks of the Black Warrior Basin, 17th Field Trip, 79 p., April, 1978.
 MGS 105G\$8.00

Tertiary and Upper Cretaceous Depositional Environments, Central Mississippi and West-Central 33rd Annual GCAGS Meeting, 40 p., 1983.
 MGS 106G\$7.50

The Cretaceous Chalk of the Starkville Area, Northeast Mississippi, by Ernest E. Russell and Stewart W. Welch, co-authors. Contains articles and road log for two-day

field trip. 18th Field Trip Guidebook, 69 p., April, 1991.
 MGS 107G\$10.00

COMPOSITE LOGS AND CROSS SECTIONS
Composite Mesozoic Log of South Mississippi and South Alabama.
 MGS 201M\$2.00

Composite Paleozoic Log of Black Warrior Basin, Mississippi and Alabama.
 MGS 202M\$2.00

Well Log Correlation Sections, Paleozoic of the Black Warrior Basin, Set of five sections.
 MGS 210CS\$10.00

Stratigraphic Cross Sections, Jurassic of Mississippi, Alabama and Northwest Florida, Set of nine sections.
 MGS 211CS\$50.00

Supplement 11, Volume III of the "Mesozoic-Paleozoic Fields of Mississippi and Alabama" (the MGS Red Book Series) comprises field data with maps of sixteen fields: Mississippi and Alabama:
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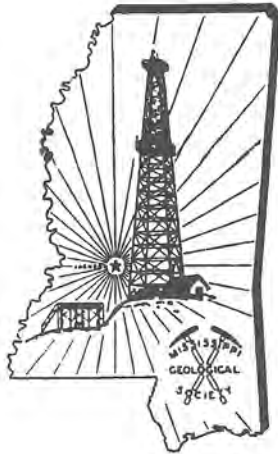
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MISSISSIPPI GEOLOGICAL SOCIETY BULLETIN

VOLUME 45

NUMBER 8

APRIL 1997

PRESIDENT'S LETTER—

by JACK MOODY

Greeting to the land of the living, that is, a live domestic oil and gas business. I read some interesting information about your vital signs the other day. Capital spending on US exploration and production was up 12.7 to 15.3% in 1996, and projections look for another 10.5-14.7% in 1997. The independents did more than their share to get the above increases. In 1996 they went up 27.6%, and you can look for another 18+% in 1997. If you are looking for a little comfort of future oil prices, a recent survey by Solomon Bros. found that companies would require a sustained oil price move of at least \$3/bbl to change their spending plans by 10%. Allow me a little reflecting upon where you've been. In 1981 the average yearly rig count peaked at 3970 rigs, by 1992 it hit 717. A reduction of 3253 rigs or 82%. Well completions in 1981 were 89,234 verses 23,340 in 1996, down 65,894, or 74%. Somewhere I've heard that hard times builds character. This industry should be very long on character. That was then and this is now. I really enjoy hearing about the attending shortages in such a rebound, especially people. I picked up a bit from a Houston meeting where the comment or discussion pointed up that computers were just a tool and they don't find oil, people do. Another discussion with a friend pointed out that companies have found that there is a need to join the modern mouse jockey with an older experienced person who has actually looked for and found an oil and/or gas field. That has got to be music to the ears of many a geologist long on experience and short on computers. It seems common sense would dictate such a partnership. Now we'll have to see if this personnel demand will spread outside of Houston. In order to help keep my, I mean your, feet on the ground, please bear in mind that world oil price gurus see 1997 prices somewhere between \$24+ and \$13.40/bbl. Thankfully that worst case scenario is highly unlikely. World demand for oil and gas is increasing, so our future prices will ride on the old supply and demand balance. All things being considered, this has to be an exciting and challenging time to be in the domestic industry. Remember what you said, if you had one more boom, you promised not to ___it away.

Our symposium response is going very well, so if you think you might be interested, you had better sign up soon. We've got one more bulletin this society year, a symposium, a spring fling, and then I'm out of here. I have enjoyed the Presidency; it is like running a company again. You're given the authority and responsibility to pay out your vision for the task at hand, and for better or worse, it is yours to do. This has been a good year, and I feel as good about it as I do the oil business. Best wishes to you and yours.

PETROLEUM SYSTEM EVOLUTION IN THE CONECUH EMBAYMENT, SOUTHWEST ALABAMA, U.S. GULF COAST

William, J. Wade, President LSS International, The Woodlands, Texas

Analyses of hydrocarbon maturation trends in Smackover reservoirs of southwest Alabama indicate that crude oils in updip reservoirs of the Conecuh Embayment are anomalously mature for their present depth-temperature regimes. It is speculated that these mature oils were originally emplaced in deeper reservoirs downdip, where they equilibrated to harsher depth-temperature conditions, and subsequently re-migrated to their present positions. Burial history reconstructions and organic maturation models, in combination with regional structure and reservoir distributions, support a model in which these mature oils leaked from the Jay-Fomaton-Big Escambia Creek field complex during Tertiary time, migrated through the Norphlet Formation, and accumulated in updip Smackover and Haynesville traps associated with updip basement knobs.

Petroleum geochemistry suggests that hydrocarbon leakage from the Jay-Flomaton-Big Excambia Creek complex may have been triggered by an influx of very mature gas-condensate with high non-hydrocarbon gas content from failed reservoirs still farther downdip. This scenario—admittedly quite speculative—potentially has important implications from the prediction of migration pathways, reservoir trap types, and preferential areas of oil accumulation in updip portions of the Conecuh Embayment.

Mississippi Geological Society 1996 – 1997

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Engineering/ Environmental Committee

The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting is May 20, 1997.

BUSINESS MEETING/LUNCHEON SCHEDULE

May 15, 1997
 Cotton Valley
 Symposium and Spring
 Fling

BUSINESS MEETING LUNCHEON

Tuesday, April 1, 1997
 11:30 Capitol City Club



The 1996 Boland Scholarship recipients were presented their awards at the November 1996 meeting.

(left to right)
 Stephanie Carney—1995 recipient unable to be present in 1995
 Shelia Cody-USM
 Chad Jones-MSU
 Addy Mills-University of MS
 Heather Lott-Millsaps



Jennifer Oltman, a graduate student at MSU, is the winner of the first MGS "Best Student Presentation" at the 1997 Mississippi Academy of Science annual meeting. Jennifer's paper was entitled "Recovery and Evolution of Washovers on Mississippi Barrier Islands". It is a pleasure to encourage such capable students in the field of geology. MGS rewarded her efforts with a plaque and a \$100 check.

"GEOLOGISTS AND THE INTERNET: COME SEE THE SITES"

The continuing Education Committee of the Shreveport Geological Society is sponsoring an all-day seminar on the Internet on Friday, April 4, 1997, from 9:00 a.m. to 4:30 p.m. The seminar is designed to acquaint geologists and other explorationists with the Internet in general and some of the on-line resources which may be of particular interest to them professionally. Prior Internet experience is not necessary. Speakers will be Bill Osten (Phillips Petroleum), Inda Immega (Shell International Ventures), Joel Haston (Prism Technologies), and Kim Vines (Information Management Systems)

Topics and questions that will be addressed include:

What is the Internet really good for?

What services are available and how will they benefit my company and my work?

What do I need to get set up and running? What will it cost? How do I create my own "home page?"

The high point of the seminar will be an in-depth, audience-interactive, live demonstration of navigating the Internet. Each attendee will receive a disk with course notes, numerous web addresses to geoscience locations, example "home page" HTML code, a web page editor, and other useful information.

The seminar will be held in the Petroleum Club of Shreveport, 15th floor of the Mid-South Towers, 416 Travis Street. **Pre-registration is required and space is limited.** The seminar fee is \$50.00 and includes lunch.

For more information on the seminar please contact Bill Meaney at (318) 227-2000, fax (318) 425-5935, or e-mail bmeaney@prism.net.

REGISTRATION FORM

Continuing Education Committee, Shreveport Geological Society
"Geologists and the Internet: Come See the Sites"
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Please mail your registration and seminar fee of \$50.00 to Bill Meaney, Anderson Oil & Gas, Inc., 333 Texas Street, Suite 2121, Shreveport, LA 71101-5357. Check should be made out to the Shreveport Geological Society and reference the seminar. (Netscape Navigator is a trademark of Netscape Communications Corporation)

NEW SGS REFERENCE VOLUME

The Board of Directors of the Shreveport Geological Society has approved plans to publish a new reference volume of ARK-LA-TEX and Mississippi oil and gas fields. The last volume was printed in 1987 (Volume VII). Activity in the last ten years combined with new technology such as 3-D seismic, advanced logging tools and improved stimulation and completion techniques has resulted in numerous new field discoveries and revitalized production from existing fields. The SGS is seeking volunteers to submit field evaluations for publication and suggestions from the membership for fields to be included. If there is a particular field you would like to see published, let us know.

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Tiger Field

A symposium on Cotton Valley producing fields, exploration history, trap mechanisms, depositional environments, current exploration technology, and future trends. Featuring industry speakers active in Cotton Valley exploration, plus core displays and a prospect show. If you are interested in or actively engaged in Cotton Valley exploration, **you need to attend.**

Where: Agriculture & Forestry Museum, Jackson, Mississippi

When: May 14 - 15, 1997

Cost: \$90

Spouse admission to Ice-breaker and Dinner: \$20

Pre-registration required - attendance is limited

Send registration fee payable to: Miss. Geological Society along with Name, Address, Phone, and Fax Number to:

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P. O. Box 422

Jackson, MS 39205-0422

For information, call:

Steve Champlin (601) 961-5506 or: Steve Oivanki (601) 961-5518

Symposium Itinerary:

May 14th, 7:00 pm: Ice Breaker with core display and Cotton Valley prospect show

May 15th, 8 am -4 pm: Symposium with 9 speakers and core presentations + lunch

May 15th, 4:30 pm: Annual MGS Spring Fling with catfish dinner

May 14th, 9:00 am: Jackson Geophysical Society Golf Tournament (call for details)

May 16th - May 24th: Bahamas Modern Reef Analog Field Trip with Larry Baria
(call for details)

If you have a Cotton Valley Prospect anywhere in the Gulf Coast you would like to sell, this is your chance to show it to all the active Cotton Valley players at one time. Call for details about the prospect show.

1997 CARBONATE FIELD TRIP OUT ISLANDS, BAHAMAS

Beginning May 15, 1997, the Mississippi Geological Society will host a carbonate field trip to the Out Islands of the southern Bahamas. Participants will study pinnacle reefs, fringing reefs, patch reefs, oolite shoals, tidal flats, eolian dunes, beaches, and many other styles of recent carbonate facies and depositional environments. The trip will be structured to present as many Smackover, Cotton Valley, and James Lime analogs to active gulf coast exploration trends as possible.

Certainly on a trip to the Bahamas, MGS spouses will also be invited to go along. While the participants are out swimming, wading and hiking each day, the spouses can enjoy beautiful pink sand beaches, island tours and laid back Out Island hospitality.

The anticipated cost of this eight day trip, including round trip airfare from Jackson to Nassau, air charter services between New Providence, Great Exuma and Long Island, hotel, meals, three and one half days of boat rental and all land transportation, will be \$1,750 per participant.

Below is a detailed daily schedule of the proposed field trip. If you have questions about the excursion or want to sign up, contact Larry Baria at 352-5562.

Day 1: Our Group will fly from Jackson, Mississippi to Nassau, New Providence Island, Bahamas. There, using an air charter service we will fly from Nassau to Georgetown, Exuma Island. Five to ten minutes out of Nassau, after flying over shallow shelfal muds and muddy sands, we will intersect the line of rocks and cays which form the Exuma Island chain fringing the Bahamas Platform where it abruptly meets the deep water of Exuma Sound. We will fly low over these cays so you can observe and photograph the numerous shelf edge deposits of reefs, oolite tidal bars and deltas, Pleistocene eolian dune ridges, and present day beaches, turquoise lagoons and green tidal ponds. The approach to Great Exuma Airport will bring us over a mixed facies of shallow platform muds, small coral and sponge banks, and storm deposited waves of carbonate sand, before finally touching down just beyond the leeward tidal flats. The group will then head to the pink stucco Peace and Plenty Hotel for a relaxing rum punch and order of conch fritters. The Peace and Plenty Hotel is owned and operated by Bahamians; the meals are generally seafood with a spicy local flare. You can use the remainder of the day to explore 17th century Georgetown and walk down to the straw market, set up under the giant oak tree in the center of town. Return to the hotel for dinner and a brief orientation on the carbonate environments which we have flown over and will be swimming and wading across in the next few days.

Day 2: In the morning we will ride overland to the northern tip of the island to Barre Terre where we will board boats to take us out to Lee Stocking Island and Normans Pond Cay for a full day of snorkling and wading. We will float over and sample oolite sand shoals and lee island beaches and make a few stops to sample muddy platform sediments and their indigenous flora and fauna. Once the tide turns and begins flooding the platform, we will go out to the seaward head of a channel and drift in over the spectacular and recently publisized (National Geographic, 1994) lower intertidal algal stromatolites. In the afternoon we will visit the tidal flats and old salt works at Normans Pond Cay. On our way back to Barre Terre we will make a snorkling stop at some of the very shallow patch reefs and rocks where coral, sea fans and colorful fish abound.

Day 3: Board boats in the morning at the hotel dock and head south for a half day of snorkling on patch reefs and shoal areas in a broad open lagoon environment. We will make note of the types of flora and fauna and the associated bioclastic sand they generate. At mid day we will return in time to catch a shuttle boat to the hotel's outer island where we will eat lunch, then spend the afternoon hiking and wading over Holocene hurricane spillover deposits, active oolite shoals, and shallow intertidal to lower shore face algal stromatolitic build-ups. We will also get a close up view of Pleistocene eolian dune sedimentation in the many pocket beaches and coves on the windward side of the island.

Day 4: Your morning schedule is open... revisit the beaches, charter a half day fishing or diving trip, or follow me on a snorkling excursion to Three Sisters Rocks. In mid afternoon we will take a chartered flight over to Long Island, skirting the south edge of Exuma Sound and land at the Stella-Maris Resort Complex. We will be flying over some of the stops we have made in the past few days as well as a few of the ones we will visit tomorrow and the next day. Stella-Maris is owned and operated by a German company where the continental food and wine selection is very good.

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Continued from page 6
1997 CARBONATE FIELD TRIP
OUT ISLANDS, BAHAMAS

- Day 5:** In the morning we will all board the autobus and ride to the Stella Maris marina where we will go out on one of the large 60'-70' dive boats for a day long snorkeling trip (shallow diving is optional for those certified). Stops will include both open shelf patch reefs and fringing reefs on the Atlantic side of the island and a lunch stop at Santa Maria Beach, one of Columbus's designated moorings. After returning to the hotel we will take a short hike down to the beach to examine the critters found in the high energy tidal pools along the Atlantic shore.
- Day 6:** Again we will board the autobus and ride down the island to visit some karsted features and caves where an excellent "insight" to eolian dune stratification can be seen. The second stop will be at Salt Pond, a nice little pocket beach also carved out of Pleistocene dunes. The third stop of the day will be at the expansive evaporative salinas and sebkhas developed in the sheltered southeast hook of Long Island. We will return to the hotel for a late afternoon orientation regarding the Long Island sediments and environments of deposition which we have visited.
- Day 7:** Early in the morning we will again board the dive boat and head east, out into the Atlantic where the Conception Island complex rises out of 6,000' of water to form a pinnacle reef type analog. We will make several traverses from bathyal to neritic depths and snorkel (diving is optional) over some of the most luxuriant reefs in the Caribbean. This trip will last the entire day because the reefs lie nearly twenty miles east of the Long Island platform.
- Day 8:** We will depart in the morning and fly back to Nassau where participants may choose to either return to Jackson, spend the day in Nassau to do tourist things, or fly out to other islands, ie, Cat, San Salvador or Crooked Island to extend your carbonate fieldtrip.

MISSISSIPPI GEOLOGICAL REGISTRATION LEGISLATIVE NEWS

by Rick L. Ericksen

As of March 7 the Geological Registration bill unanimously passed the Senate after being passed, also by unanimous vote, in the Oil, Gas and Other Minerals and Environmental Protection, Conservation and Water Resources Committees. The Geologic Registration bill (HB 953) was previously voted on and passed in the House.

The bill now goes back to the House of Representatives for either a vote of concurrence or it may go into conference committee due to some minor modifications which were effected in the Senate. Either way we should be coming up shortly for another vote in the House. As noted in the previous month's update, by the time you have read this action will probably have already been taken by the House.

If it passes in the House (again), the only portion of the process remaining would be the signing of the bill by Governor Fordice. As always, we shall keep the geologic community informed concerning the progress of this legislation.

Should you have any questions, comments, or need additional information you may contact the Committee's chairman, Rick Ericksen at the following address:

Rick Ericksen, Chairman
P.O. Box 254
Ridgeland, MS 39158-0254
Phone - (601) 961-5507

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File No. 4897
County: Lincoln
Field: Wildcat
Operator: Amoco Prod. Co.
Elev: 417.6'GL 453'KB
Casing: 20" @ 1010'; 1
3 3/8" @ 10,500';
9 5/8" @ 17,854'; 7" @ 20,003'

Pages:
Sec. 30-6N-7E
Loc: 1550'S & 1140' W of NE/cor.
Fee: #1 Zackie Wallace 30-8
L.T.D.: 22,500'
Compl. D & A 6-29-81

Symbols: *Live (migrated) oil show
~Source oil show (impermeable rocks-
Shale, Siltstone, Limestone, etc.)
+Dead oil shows (i.e., tar, asphalt, gilsonite, etc.)

SAMPLE DESCRIPTIONS

Samples start at 10' intervals.

Logged by: Jack Henderson

C #1360 2-26-97

In Hosston

17,700-17,730' Ss, wht, vFn-M gr, ang-subang, v silty, sl. calc.,
glassy in pt (Qtz overgrowth?), poss. kaol in small
%, Por in pt; Sh, dk red, vfm, silty & calc. in pt., Sh,
m gry, vfm, calc. Note: m-lg mica flakes
common(LCM)

Tops:(Operator)

Midway	7110'	Paluxy	12,232'
Chalk	8200'	Ferry Lake	14,350'
Eutaw	9200'	Hosston	16,650'
L.Tuscaloosa	10,132'	CV	18,200'
W. Fred	11,271'	CVB Ls	20,300'

17,730-17,760' Sh, dk red, brn, vfm; Sh, m gry, m grnsh-gry, vfm;
Ss, AA

Tops:(EJH)

Cotton Valley 17,810'

17,760-17,780' Sh, AA-pred. m gry; Sh, m-dk red, vfm; tr Ls,
whtsh-gry, chalky Note: abund mica(LCM)

Comment:

A part of the Cotton Valley study by Steve Oivanki. Much difficulty was experienced in drilling this well and the samples, in certain long intervals, are not representative. The samples in large part are lost-circulation material (mostly hulls) and trash such as cement, weight material (?), oil-saturated salt, iron scale/filings, and ground-up drill-pipe protectors (heavy black plastic). Many samples contain no rock fragments at all. The interval 21,340' to 21,460' is almost 100% limestone. The samples from 21,460' to total depth are predominantly hulls(LCM) with varying small amounts of limestone in most samples. The limestones are pelletal and occasionally oolitic in part. The uppermost 60'+ is micro-sucrosic. The great amount of hulls (LCM) used in drilling below the 7" casing (20,000') is regarded as evidence of unusually high porosity, probably induced, in the interval.

17,780-17,790' Siltst, wht, whtsh-gry, extr. calc.; Siltst, earthy
gry, vfm, tr vfc material, v calc, Sh, AA

17,790-17,810' Sh, dk red, vfm; Ss, wht, vFn-Fn gr, v silty, non-
calc to sl calc.

17,810-17,830' Ls, lt-m gry, mottled, micritic; (crushed) slow
DY cut, fair DY RR; Ls, wht, buff, chalky; Ss & Sh, AA

17,830-17,840' Sh & Ss, AA Note: Poor Sample(LCM-hulls &
mica)

17,840-17,850' V. Poor Sample-almost 90% hulls, (LCM), abund
mica(LCM), cement

17,850-17,860' Sh, dk red, vfm, silty in pt., sl v calc; Sh, dk gry, vfm,
vfc in pt, silty in pt; Ss, AA; cement, red, v soft

Abbreviations:

AA (as above)	ign (igneous)
ang (angular)	LCM (Lost Circulation Material)
asph (asphaltic residue)	Ls (Limestone)
calc (calcareous)	Mdst (Mudstone)
Cs (course)	Ss (Sandstone)
NS (No Show)	Sd (Sand-unconsolidated)
o.stn (oil stain)	Sh (Shale)
qtz (quartz) (quartzitic)	stn (stain)
RR (Ring Residue)	vDGF (very dull golden fluorescence)
Siltst (Siltstone)	vfc (very finely carbonaceous)
DGF (dull gold fluorescence)	vfm (very finely micaceous)
Dolo (Dolomite or dolomitic)	volc (volcanic)
extr (extremely)	wlv (water lain volcanics)
Foss (fossiliferous)	xln (crystalline)
frags (fragments)	Y (Yellow)
G (Gold)	Comminuted-powdered
gr (grain)	

17,860-17,870' Ss, wht, tr v small blk(carb?) specks, vFn-Fn gr,
sl calc; Sh, lt-m gry, vfm, silty

17,870-17,900' Poor Sample-comminuted-v small wht frags-
some of which effervesce-some don't; Sd, Fn gr
& small pink-red extr. calc Sh(?) frags; cement

17,900-17,930' Poor Sample-AA except all red weight material(?)

17,930-17,940' Sh, lt-m gry, vfm, vfc, calc, silty, (cuttings coated
w/vFn silt) Note: wt. material, AA

17,940-17,960' AA; tr Sh, m gry, vfm Note: wt. material, AA

17,960-18,060' V. Poor Sample-almost all pink-red wt material
(?), extr calc., v soft, coats Sh, m gry & Siltst, lt-m gry

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18,060-18,080'	wt material,lt grysh-wht.lt pink-m red	20,010-20,020'	Ss,lt gry,vFn gr-silt,glassy in pt; LCM (hulls),tr Anhy(?),wht,chalky;Cement balls AA
18,080-18,090'	wt material,lt red	20,020-20,040'	V Poor Sample-almost all wt material,pink-lt red;tr Cement balls,AA
18,090-18,120'	wt material,pale pink	20,040-20,050'	Sltst,lt gry,glassy,sdy(vFn gr) in pt;Anhy (?),wht,v soft,chalky appear.
18,120-18,500'	No Samples	20,050-20,060'	Ss/Sd,wht,clear,vFn-Fn gr,ang,silt,NP;Sltst & Anhy,AA
18,500-19,090'	wt material,pink,tr grysh-wht,powdery in pt	20,060-20,070'	AA-pred Silt;tr Ss,lt red,vFn gr,v silty,non-calc;Anhy,AA
19,090-19,100'	Iron filings-dk red,calc.,loosely cemented	20,070-20,080'	Ss,wht,vFn-Fn gr,ang,silty,non-calc;Anhy,AA
19,100-19,110'	wt material,lt reddish-brn,powdery	20,080-20,120'	Silt,pale red,clear;Anhy,AA Note: Samples V Poor-comminuted & cvgs
19,110-19,120'	Iron Filings,AA;tr Sh,m gry;wt material,AA	20,120-20,230'	AA-increase % iron scale
19,120-19,140'	Iron Filing,AA;tr Ss,wht,ang,friable,por.	20,30-20,270'	Anhy,wht,red,Sh(?)coated,v soft,powdery; Note: Abund.lt red wt material(?),very soft;Abund iron scale
19,140-19,150'	AA-increase % Ss	20,270-20,570'	V.Poor Samples,trash-abund plastic frags, (ground-up pipe protectors),pipe scale, cement(round balls in pt);Sd,clear
19,150-19,170'	Wt material & Iron Filings,AA	20,570-20,930'	Salt,lt tan-lt brn,vFn xln,lt o.stn,lt yell gold fluor,rapid YG cut;trash,AA
19,170-19,180'	Ss,wht,vFn gr,ang,friable,calc,tr iron filings	20,930-21,000'	V.Poor Samples;plastic,blk,"warty"(botryoidal appearance,on 1 side),dense brittle,non-calc;abund. Pipe scale;red"packer rubber" frags;Chalk,wht,Cement,lt gry frags & balls
19,180-19,190'	Iron Filings & Ss,AA	21,000-21,020'	V.Poor Sample:Ls,wht,buff,chalky;"plastic", blk,botryoidal on 1 surface or side.
19,190-19,260'	Ss/Sd,wht,vFN gr-tr Fn gr,friable,tr iron filings,sl calc,in pt	21,020-21,140'	V.Poor Sample:Plastic(?),dk gry,blk,xln in pt-botryoidal on 1 surface,prob.frags of drill-pipe protectors
19,260-19,320'	Ss/Sd,pale pink-wht,vFn-Fn gr,pred.vFn gr, ang,sl calc	21,140-21,300'	V.Poor Sample:Salt,lt brn(oil stained),DG fluor;LCM(vFn fiber),Sd & plastic
19,320-19,380'	V.Poor Samples-pred LCM(hulls);Ss/Sd,AA	21,300-21,320'	V.Poor Sample:Plastic(?),blk;chalk(v small frags);Sd & Qtz shards,clear;tr salt
19,380-19,400'	Ss/Sd,wht,vFn gr,scatt Fn gr,ang	21,320-21,340'	Poor Sample: LCM(fiber);Ls,wht,chalky;Ls,wht-lt gry mottled,micro-sucrosic
19,400-19,480'	Ss/Sd,AA except vFn-Fn gr,tr M gr,ang-subang		
19,480-19,490'	LCM (hulls);tr Ss/Sd,AA		
19,490-19,620'	Ss/Sd,wht,vFn gr,ang;LCM,AA		
19,620-19,640'	Wt material,lt red,powdery,silty		
19,640-19,650'	Sd,pale red,pink,vFn gr, v silty		
19,650-19,660'	Wt material,lt red,powdery,silty-sdy		
19,660-19,670'	Sd,wht,clear,Fn-M gr,ang		
19,670-19,680'	AA except v silty;tr Cement,pale pink		
19,680-19,700'	Ss/Sd,wht,vFn gr,v silty,tr Fn & M gr,ang		
19,700-19,830'	AA except vFn-Fn gr		
19,830-19,870'	AA;tr Sh,lt slate gry,vfm		
19,870-19,920'	Sd,AA;tr LCM(hulls)		
19,920-20,000'	Sd,AA		
20,000-20,010'	Cement,wht,lt gry;Silt,clear;tr Sh,lt gry-blk speckled, vfm; Siderite concretions,pale gry,buff,lt-dk red;tr Cement"balls",lt slate gry,oolite-pisollite size		

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~21,340-21,360'	Ls,wht,chalky;Ls,m gry,vFn xln-micritic, argill in pt,foss in small:(crushed)slow DG cut round YG RR;tr Ls,lt gry,lt tan,micro-sucrosic,pelletal(m-dk brn),tr oolites(dk brn-blk); Note:cuttings v.small	22,020-22,050'	AA;tr Ls,wht,lt brn,micritic,pelletal;Ls,dk brn-wht,micro-xln Note:Cuttings v small
		22,050-22,070'	V.Poor Sample:LCM(hulls)
~21,360-21,370'	Salt,lt tan(oil stain)vFN xln Note:(LCM?)	22,070-22,100'	AA;tr Ls,wht,chalky;Ls,wht-m brn,micritic, foss,tr pellets Note:Cuttings v small
~21,370-21,380'	Ls,whitish-gry,micro-sucrosic,oolitic(dk brn & blk):(crushed)tr v slow, DG cut,fair YG RR	22,100-22,120'	V.Poor Samples(LCM(hulls))
		22,120-22,140'	AA;tr Ls,wht-m brn,mottled,micritic in pt, chalky in pt. Note: Cuttings v small
~21,380-21,400'	Ls,wht,buff,chalky;tr Ls,AA:(crushed)slow DG cut,good YG RR	22,140-22,160'	AA-increase % Ls
		22,160-22,180'	AA-decrease % Ls
~21,400-21,450'	Ls,wht,buff,chalky;Ls,lt-m gry,micritic,dully fluor,(crushed)lt YG cut,fair YG RR	22,180-22,360'	AA-increase % Ls,red,wht,buff chalky,sl foss;tr Ls,lt-m gry,micritic,tr small dk brn pellets Note:Cuttings v small-comminuted
~21,450-21,460'	AA;tr Ls,m gry,lt brn,micritic,pelletal in pt,no fluor,(crushed)v slow dull YG cut,sl lt Y RR	22,360-22,370'	Sample V Poor:LCM(hulls)
21,460-21,490'	V.Poor Sample: LCM(hulls);tr Ls,AA	22,370-22,380'	AA;tr Ls,wht-lt brn,micritic h pelletal in pt. Note:Cuttings v small
21,490-21,530'	V.Poor Sample: LCM(hulls);Ls,lt-m gry,lt-m brn,micritic,pelletal(m-dk brn)	22,380-22,400'	Sample V Poor:LCM(hulls)
21,530-21,550'	AA except decrease % Ls	22,400-22,410'	AA;Ls,wht,lt brn,micritic,tr pellets Note: Cuttings v small
21,550-21,790'	V.Poor Sample-all LCM(hulls)	22,410-22,430'	Samples V Poor:LCM(hulls)
21,790-21,810'	AA;tr Ls,lt-m gry-brn,micritic,pelletal(m- dk brn)	22,430-22,460'	AA;Ls,wht,chalky;tr Ls,pelletal,AA
		22,460-22,500'	Samples V Poor:LCM(hulls)& tr red plastic
21,810-21,830'	V.Poor Sample:LCM(hulls)	D.T.D. 22,500'	Descriptions completed 2-26-97
21,830-21,840'	AA;Ls,wht-lt gry-brn,micritic,pelletal in pt, Note: Cuttings v small		
21,840-21,860'	AA-decrease % Ls		
21,860-21,870'	V.Poor Sample:LCM(hulls)		
21,870-21,900'	AA;tr Ls,wht,lt gry,m-dk brn,micritic, pelletal;Note:v small cuttings		
21,900-21,920'	V Poor Sample:LCM(hulls)		
21,920-21,950'	AA;tr Ls,wht,m gry,micritic,pelletal Note: cuttings v small		
21,950-22,000'	V.Poor Sample:LCM(hulls)		
22,000-22,010'	AA;tr Ls,wht,lt brn,micritic,pelletal Note: cuttings v small		
22,010-22,020'	V Poor Sample:LCM(hulls)		

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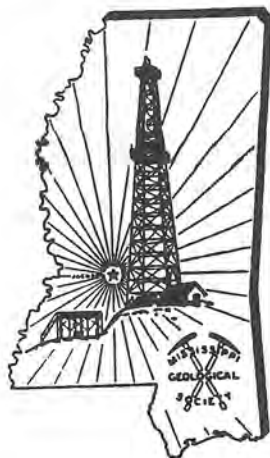
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VOLUME 45

NUMBER 9

MAY 1997

PRESIDENT'S LETTER—

by JACK MOODY

It does seem strange to be writing my last president's letter, time flies when you're having fun. It has been a good year due to the great group of people working for your society. George Vockroth was 1st VP, and is your next president. I am grateful for his constant help and his handling the Christmas party. Larry Baria did us all a double service. He was your 2nd VP in charge of talks, and did a great job. He also lent us Carolyn Morrison, who has been very much in the trenches of this year's behind the scenes work. Also behind the scenes was Erni Rutledge, at our office, who did many support functions. Roger Townsend was the secretary. He furnished us with meeting notes, collected monies at the meetings, and still had time to drill a very nice Cotton Valley well at Stringer. Steve Champlin has been your hard working treasurer this year. At the beginning of the year he was charged with keeping me informed of our \$ status. Fortunately, he has been busy with all the increases of income. He has also handled a lot of the symposium business, which is a lot. Thanks to my long-time friend Steve Oivanki for his help with the symposium speaker agenda. Many thanks to Stan Thieling for his job as editor of the society bulletin. He was there when I really needed him. All of these folks have worked together to give you an active, and I hope successful year. I should also thank Cragin Knox for his support of the society and his encouraging our participation in the society. Without his support it would be a very different outcome.

I recently attended a GCAGS mid-year meeting in New Orleans. From that meeting I felt that the Mississippi Geological Society is viewed as a stepchild because we are not in the "put on a convention" mode. I would like to suggest that the Mississippi Geological Society join back in the circuit and we put the meeting on in Biloxi. I feel very confident that Biloxi will draw people, and AAPG can help with many of the necessary planning functions.

As far as this column is concerned, it's over for me. Thanks again for the privilege and opportunity to serve. My best wishes to you and yours. I hope all have an enjoyable and safe summer.

Thanks again.



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The Engineering/Environmental Committee meets every odd numbered month, on the 3rd Tuesday, in the Department of Environmental Quality Commission Hearing Room at Southport Center-Highway 80 & Ellis Avenue across Jesse Drake Dr. from Hutto's Nursery, at 11:45 am.

The next meeting is May 20, 1997. The speaker will be Dr. Charles T. Swann from Ole Miss whose topic is: Evaluation of Earthquake Effects on Structures and Utilities at the University of Mississippi.

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This should be the biggest Spring Fling in years since it is being held in conjunction with the Cotton Valley Symposium. Symposium participants are already registered for the Spring Fling. Members and guests not attending the Symposium must call in their Spring Fling reservations as soon as possible.

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File No. 5208	Pages: 6	18,240-18,450'	Limestone, buff, light brown, micritic:(crushed)no show;
County: Wilkinson	Sec. 1-IN-4W		Limestone, white-medium brown, micritic; Limestone, tan-light
Field: Wildcat	Loc.: 426'FNL x 1566'FEL		brown, micritic, very fossiliferous; Limestone, dark brown,
Operator: Amoco	Fee: #1 Wilcox-Catchings		lithographic, trace subconchoidal fracture
Elev.: 420'KB	T.D.: 22,970' STH	18,450-18,510'	Limestone, white, buff, chalky; Limestone, light-medium
Casing:30"@82"; 20"@3030';	Compl: D & A 7-17-82		brown, micritic; Limestone, dark brown, black, lithographic;
13 3/8"@12,900';9 5/8"@18,960';			Note: cuttings very small
7"@19,900'Plug back & sidetrack		18,510-18,540'	No Sample
18,965'			
Logged by: Jack Henderson	CPG 1360 4-3-97	~18,540-18,720'	Limestone, very dark brown, black, lithographic; :(crushed)
			slight yellow ring residue; Limestone, tan-medium brown,
			micritic; Limestone, white, buff, chalky, slightly fossiliferous,
			generally very small cuttings :(crushed) fair dull gold ring
			residue
Tops:(Operator)			
Midway 10,135'	Mooringsport 16,285'		
B. Chalk 12,585'	Hosston 19,500'	~18,720-18,960'	Limestone, white, buff, chalky-very fine crystalline, trace very
Tusc. 13,300'	CV 21,020'		small pellets;:(crushed)fair dull gold ring residue; Limestone,
Paluxy 15,150'			very dark brown, micritic; trace Limestone, very dark brown,
			black, lithographic: Note: cuttings (light colored) very small
Comment: Logged as a part of the Cotton Valley study by Steve Oivanki.		18,960-18,990'	Limestone, very dark brown, black, lithographic; Limestone,
Logged without reference to wireline logs.			white-medium brown, micritic; Limestone-?-Siltstone, light
			reddish-brown, cream-brown, very fine crystalline-possibly a
			weathered residuum; cement (earthy gray) balls
Abbreviations:	ign (igneous)		
AA (as above)	LCM (Lost Circulation Material)	18,990-19,020'	No Sample
ang (angular)	Ls(Limestone)		
asph (asphaltic residue)	Mdst (Mudstone)	19,020-19,050'	Limestone-?-Siltstone, very light reddish-brown, cream,
calc (calcareous)	Ss (Sandstone)		chalky-very fine crystalline (weathered residuum?);
Cs (course)	Sd (Sand-unconsolidated)		Limestone, very dark brown, micritic, lithographic in part;
NS (No Show)	Sh (Shale)		Limestone, dove gray-brown mottled, micritic
o.stn (oil stain)	stn (stain)	19,050-19,110'	Limestone, buff, cream, chalky-very fine crystalline, soft;
qtz (quartz) (quartzitic)	vDGF (very dull golden		Limestone, dark brown, micritic-lithographic, traces subconch
RR (Ring Residue)	fluorescence)		fracture
Sltst (Siltstone)	vfc (very finely carbonaceous)	~19,110-19,140'	As above; trace Siltstone, whitish-gray, buff, earthy gray, very
DGF (dull gold fluorescence)	vfm (very finely micaceous)		fine silt, very calcareous, argillaceous in part-grades to very
Dolo (Dolomite or dolomitic)	volc (volcanic)		silty Limestone; slight trace Limestone, black, nodular,
extr (extremely)	wlv (water lain volcanics)		weathered-polished:(crushed) slow dull gold cut
Foss (fossiliferous)	xln (crystalline)	19,140-19,200'	Limestone, whitish-gray, buff, chalky, silty, (very fine-fine)-
frags (fragments)	Y (Yellow)		sandy(very fine grain), fossiliferous in part; Limestone, dark
G (Gold)	Comminuted-powdered	19,200-19,230'	brown, micritic, platy
gr (grain)			
Symbols: *Live(migrated)oil show Source oil		19,230-19,260'	Limestone, dark brown, black, micritic, trace lithographic;
~show (impermeable rocks-Shale,Siltstone,			Limestone, buff, chalky
Limestone,etc.)			
+Dead oil shows(i.e.,tar,asphalt,gilsonite,etc.)			As above except predominantly buff, chalky Note: cuttings
			very small; Shale, medium gray, splintery, very finely
			micaceous

SAMPLE DESCRIPTIONS

In Rodessa-Sliqo

~18,090-18,120'	Limestone, black, very dark brown, micritic:(crushed) heavy dull gold ring residue	~19,260-19,290'	As above; Siltstone, whitish-gray, very mica, argillaceous in small percent; very calcareous :(crushed)very slight dull gold ring residue Note: Abundant lost circulation material & Coal(mud additive)
~18,120-18,150'	Limestone, white-buff-dark brown mottled, micritic-chalky : (crushed)heavy yellow ring residue;trace Limestone, light brown, micritic; Limestone, as above	19,290-19,320'	Limestone, cream, buff, chalky, silty in part; Limestone dark brown, micritic
~18,150-18,210'	Limestone, white-buff chalky; Limestone, very dark brown, micritic :(crushed) slight pale yellow ring residue	19,320-19,350'	As above-increase percent Limestone, dark brown; Limestone, medium brown, micritic Note: trace lost circulation material & Coal (mud additive)
~18,210-18,240'	As above; Limestone, white-brown, mottled, micritic, abundant very small pellets in small percent; trace Limestone, black, dark brown, micritic, trace very thin calcite veinlets, trace extremely small pyrite crystal "sheen", trace fossils	~19,350-19,410'	Limestone, buff, grayish-brown, chalky-micritic in part; Limestone, dark brown, black, micritic :(crushed) very slow dull gold cut, fair dull gold ring residue

Continue from page 5
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19,410-19,440'	As above; Limestone, buff, very fine crystalline (micro-sucrosic in part), pelletal (pellet light brown, small, round & oblong)		(crushed) very slight trace dull gold ring residue; (crushed) slight trace dull gold ring residue; Shale, light slate gray, very finely micaceous; Sand, as above
19,440-19,470'	Shale, light-medium gray, very finely micaceous, splintery; Limestone, white-buff, chalky	20,280-20,400'	Limestone, buff, light brown, micritic, pelletal in part; Sand, as above, :(crushed) slight trace dull gold ring residue; Note: cuttings very small
19,470-19,500'	No Sample	20,400-20,500'	No Samples
<u>Hosston</u>			
~19,500-19,560'	Shale, light-medium slate gray, very finely micaceous, splintery :(crushed) fair gold ring residue; Limestone, light gray, buff, light-medium chalky in part, very fine crystalline in part :(crushed) no show;	20,500-20,770'	Very Poor Samples: lost-circulation material-trace (hulls); Coal(mud additive); Sand, clear, white, very fine-fine grain, angular; trace Shale, light gray, light brown, very finely micaceous, splintery
19,560-19,590'	Limestone, white, buff, mottled light brown, chalky; Limestone, very dark brown, micritic; Shale, as above	~20,770-20,800'	As above-increase percent Shale,:(crushed) trace dull gold ring residue
~19,590-19,620'	Shale, light-medium slate gray, very finely micaceous; Limestone, as above; trace Limestone, white-gray, very fine crystalline, pelletal; trace Siltstone, light gray, very finely micaceous, extremely calcareous :(crushed) slight dull gold ring residue	20,800-20,860'	As above-decrease percent Shale
19,620-19,650'	As above-increase Limestone, pelletal and increase Siltstone; trace Sandstone, white, very fine grain, angular, extremely calcareous	20,860-20,890'	As above-increase percent Shale; Limestone, med-dark gray, trace buff-brown (pellets), very fine crystalline-micritic
19,650-19,680'	Shale, Limestone (pelletal), & Siltstone, as above	20,890-20,920'	Shale, dove gray, trace medium gray, very finely micaceous, calcareous, splintery; Siltstone, light gray, very finely micaceous, calcareous, very finely carbonaceous, argillaceous; Note: Abundant cavings (large splintery gray Shale)
19,680-19,740'	Shale, light-slate gray, very finely micaceous; trace Siltstone & trace Limestone, as above	20,920-20,980'	Poor Sample-very small cuttings; Sand, clear, white fine-medium grain, angular-subrounded; Shale, dove gray, very finely micaceous; Numerous very small-small calcite spheroids, cream, light tan
~19,740-19,800'	Shale, as above; Limestone, light dove gray, micritic, pelletal (pellets oval); trace Limestone, buff, light tan, very fine crystalline, pelletal, :(crushed) trace dull gold ring residue; trace Siltstone, as above	<u>Cotton Valley</u>	
19,800-19,830'	Very Poor Sample: lost-circulation material (hulls & trace Coal); Shale, Siltstone, Limestone, as above	20,980-21,010'	Shale, dove gray-medium gray, very finely micaceous, splintery; Sand & spheroids, as above; trace Limestone, light tan, dark brown, very fine crystalline; trace Limestone, buff, very fine crystalline, pelletal (pellets medium-dark brown)
19,830-19,890'	Limestone, light gray, buff, micritic-very fine crystalline, pelletal(pellets, black); Siltstone, white, light gray, very finely micaceous, argillaceous, calcareous; Shale, as above;trace lost-circulation material	21,010-21,100'	As above-decrease percent Shale & decrease percent Limestone
19,890-19,920'	As above-increase percent Shale; trace Shale, dark brown, very finely micaceous, calcareous	21,100-21,130'	As above-increase percent Shale; trace Limestone, dark brown; very fine crystalline- micritic, argillaceous
~19,920-19,980'	Limestone, white, light gray, buff, chalky-very fine crystalline, pelletal(very small):(crushed) slight trace dull gold ring residue; Limestone, dark brown, micritic; Shale, as above	21,130-21,340'	Sand, spheroids, Shale, trace Limestone, as above, Note: Abundant Coal(mud additive) and cuttings are very small
19,980-20,010'	Sandstone/Siltstone; white, light gray, very fine grain-silt, extremely calcareous; Shale, light slate gray, very finely micaceous	21,340-21,400'	As above; trace Limestone, buff, very fine crystalline, pelletal(pellets light tan-dark brown)
~20,010-20,070'	Shale, light slate gray, medium gray, very finely micaceous; (crushed) slight dull gold ring residue; Sandstone/Siltstone, as above	21,400-21,430'	As above-decrease pelletal Limestone-increase percent Coal(mud additive)
20,070-20,190'	Shale, as above; Limestone, buff, chalky	21,430-21,460'	Limestone, light-medium grown, very fine crystalline-micritic in part, pelletal pellets very small in part; Shale & Sand, as above
+20,190-20,250'	Sandstone/Siltstone, white, light gray, very fine grain-silty, slightly calcareous :(crushed) very slight dull gold ring residue; Sand, white, clear, very fine-fine grain, angular-subangular:(pinch) very slight dull gold ring residue; Shale, as above	21,460-21,520'	As above-increase percent spheroids
~20,250-20,280'	Limestone, light gray, light tan, micritic in part, very fine crystalline in part, pelletal with some pisolites (dark brown);	21,520-21,550'	Sand, Shale, spheroids, as above
		21,550-21,580'	Limestone, buff, chalky, argillaceous; Limestone, light-dark brown, micritic; Sand, Shale, spheroids, as above; trace Siderite pellets, dark reddish-brown
		21,580-21,610'	Limestone, as above; trace Limestone, buff, light gray, micritic, pelletal (dark brown), Note: cuttings very small
		21,610-21,640'	No Samples

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21,640-21,700'	Limestone, whitish-gray, buff, very fine-crystalline, micro-sucrosic, pelletal, (pellets small, dark brown & dark gray); Limestone, Shale, Sand, trace spheroids, as above	22,500-22,560'	Limestone, buff, very fine crystalline, micro-sucrosic in part; Limestone, as above- pelletal in small percent Note: Cuttings very small
21,700-21,760'	Limestone, medium-dark gray, micritic; Limestone, Sand, spheroids, as above; Note: cuttings very small	22,560-22,590'	Limestone, whitish-gray, buff, light-medium gray, micritic & very fine crystalline, pelletal(pellets dark brown); Limestone, medium gray & medium brown, micritic
21,760-21,970'	Limestone, whitish-gray, buff, medium gray, chalky-very fine crystalline-micritic in small percent, pelletal (pellets very small-small, trace oolites, medium-dark brown) in large percent; Limestone, whitish-gray-medium gray, dark brown, micritic	22,590-22,620'	Limestone, dark-very dark brown, micritic in part, lithographic in part; trace Limestone, as above
21,970-22,030'	Limestone, medium-dark gray, dark brown, micritic, trace calcite veinlets; Limestone, as above; Note: Cuttings very small	22,620-22,740'	Limestone, whitish-gray, buff, very fine crystalline, micritic in part; Limestone, as above
22,030-22,150'	As above-predominantly pelletal.(pellets buff-dark brown, Note: Cuttings very small	22,740-22,770'	As above-increase percent Limestone, dark-very dark brown, micritic, trace lithographic
22,150-22,180'	No Samples	22,770-22,800'	Limestone, white, whitish-gray, buff, chalky & very fine crystalline in part; trace Limestone, as above
22,180-22,270'	Limestone, whitish-gray, buff, micro-sucrosic in part, pelletal (pellets dark brown-dark gray)	22,800-22,830'	As above-increase percent brown Limestone
22,270-22,300'	No Samples	22,830-22,890'	As above-decrease percent brown Limestone Note: Cuttings very small
22,300-22,470'	Limestone, as above		
22,470-22,500'	Limestone, as above; Limestone, dark gray, dark brown, micritic		

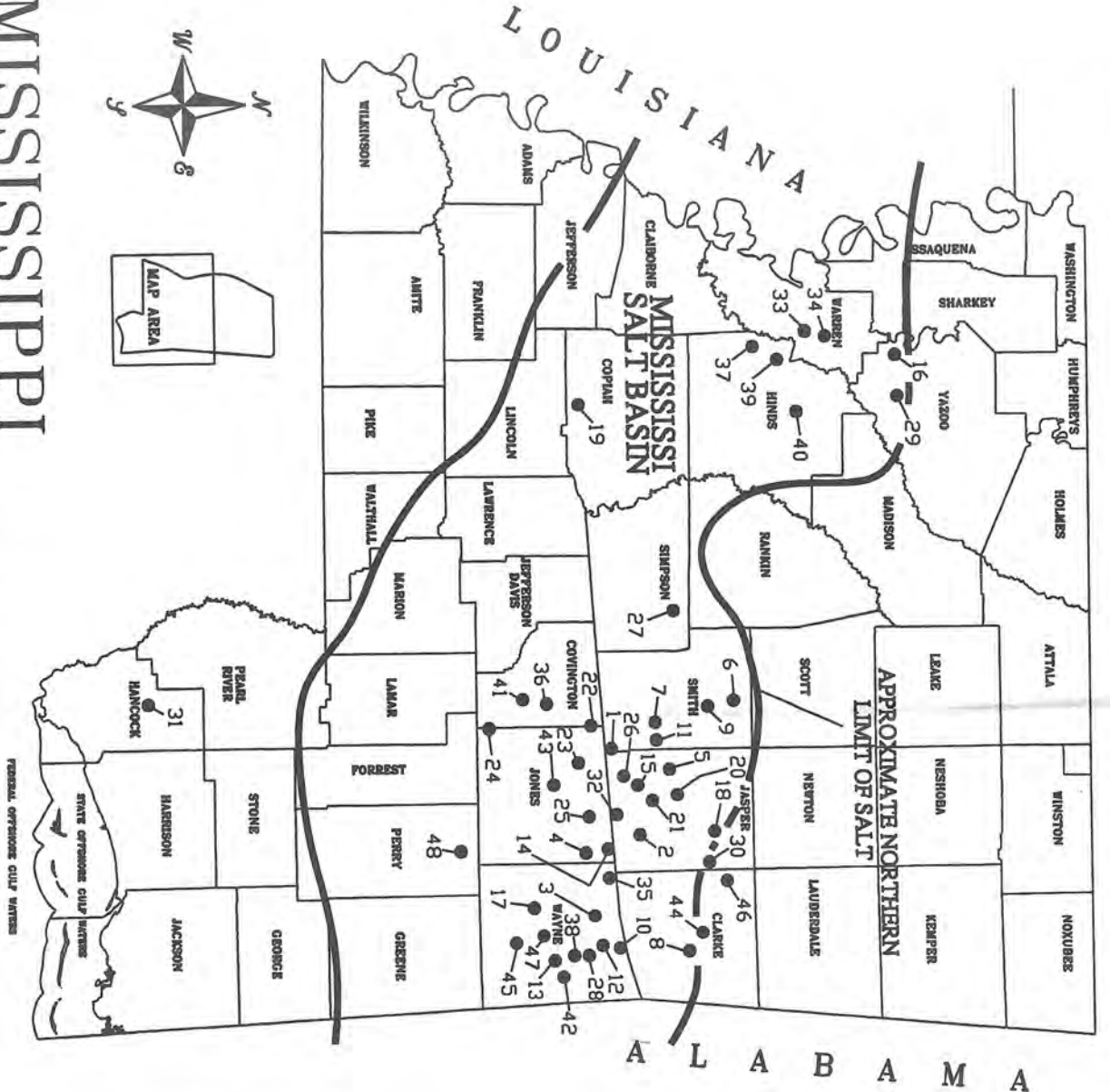
AAPG DALLAS CONVENTION

The House of Delegates conducted its business on Sunday, April 6. There were a number of House keeping pieces of business taken care of. Officers for the House were elected. One of the many committees suggested that the three references needed for membership should be dropped as a requirement. That suggestion was soundly shot down. It appears that the House has accepted the idea of allowing the foreign membership to have representation in the House and on the Steering committee. Foreign membership accounts for 20% of the overall members. It appears to me that a fundamental decision was made by AAPG to expand its reach well beyond petroleum geology in America. I was told by previous delegates that the enlargement to include foreign and environmental were contentious issues. Those hurdles have been cleared but a number of delegates seem to feel that AAPG has become an organization whose chief end is to perpetuate itself and grow. My first meeting impression is that it is becoming another GSA with petroleum roots. Please feel free to contact me and let me know your thoughts as they relate to your AAPG.

The AAPG convention was big and upbeat. I enjoyed a number of the talks and poster sessions. I especially enjoyed a panel discussion by 6 legends in their own day. On that panel were Michael Halbouty, Bernard Duval, Roy Huffington, John Masters, and Tom Jordan. Each gave his comments on what he thought it took to be a successful explorationist. There was a lot said, but here are a few that stuck with me. Several of these men looked for passion towards the hunt. Attitude, this passion, was a major, if not the major characteristic they look for. Creativity is a part of this necessary mind set. They differentiated between brilliance and creativity citing some brilliant people on their staffs who were not the idea engines. Go where others don't, look for the possibilities outside of the sheep herd mentality that is so characteristic of our industry. Stay with it, there will be fat years and lean years, but one must stay in the hunt. I thought one of their suggestions was within reach of us all, read, read, read.

Another topic of discussion I picked up on at the convention was an observation by the older, experienced, and successful; the distance they saw between the hot topics such as sequence stratigraphy, and the useful application to finding oil. Out of these discussions one suggested that given the next 4 or 5 years, there would develop an ability to practically apply technology and theories into a successful combination. Their observation was there is a lot of motion, enthusiasm, heat, but not much substance yet. I really admired this view of the present state of exploration thinking. It seemed balanced, patient, and optimistic; something I would hope to hear from men seasoned by experience and wisdom.

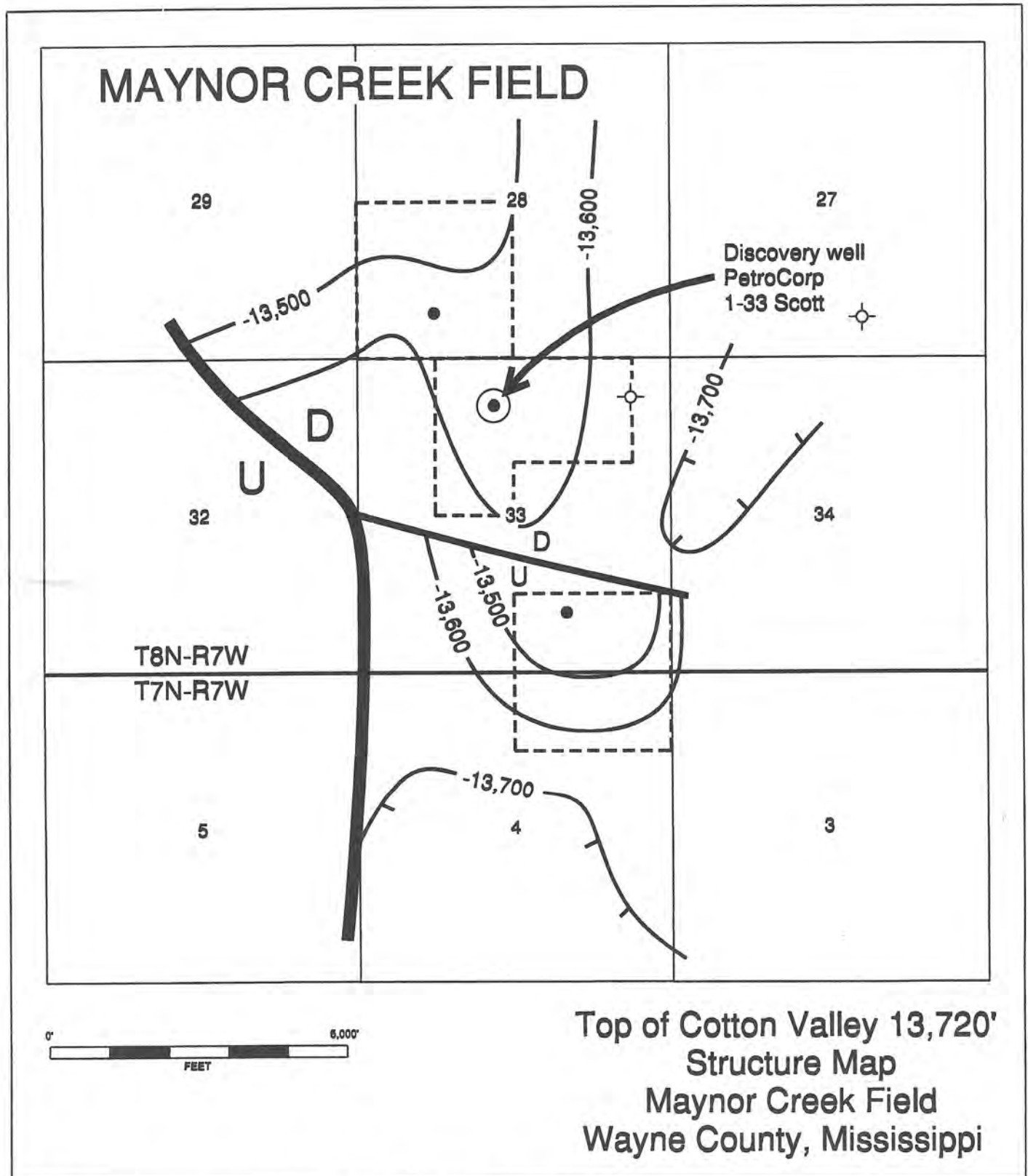
MISSISSIPPI COTTON VALLEY PRODUCTION INDEX MAP



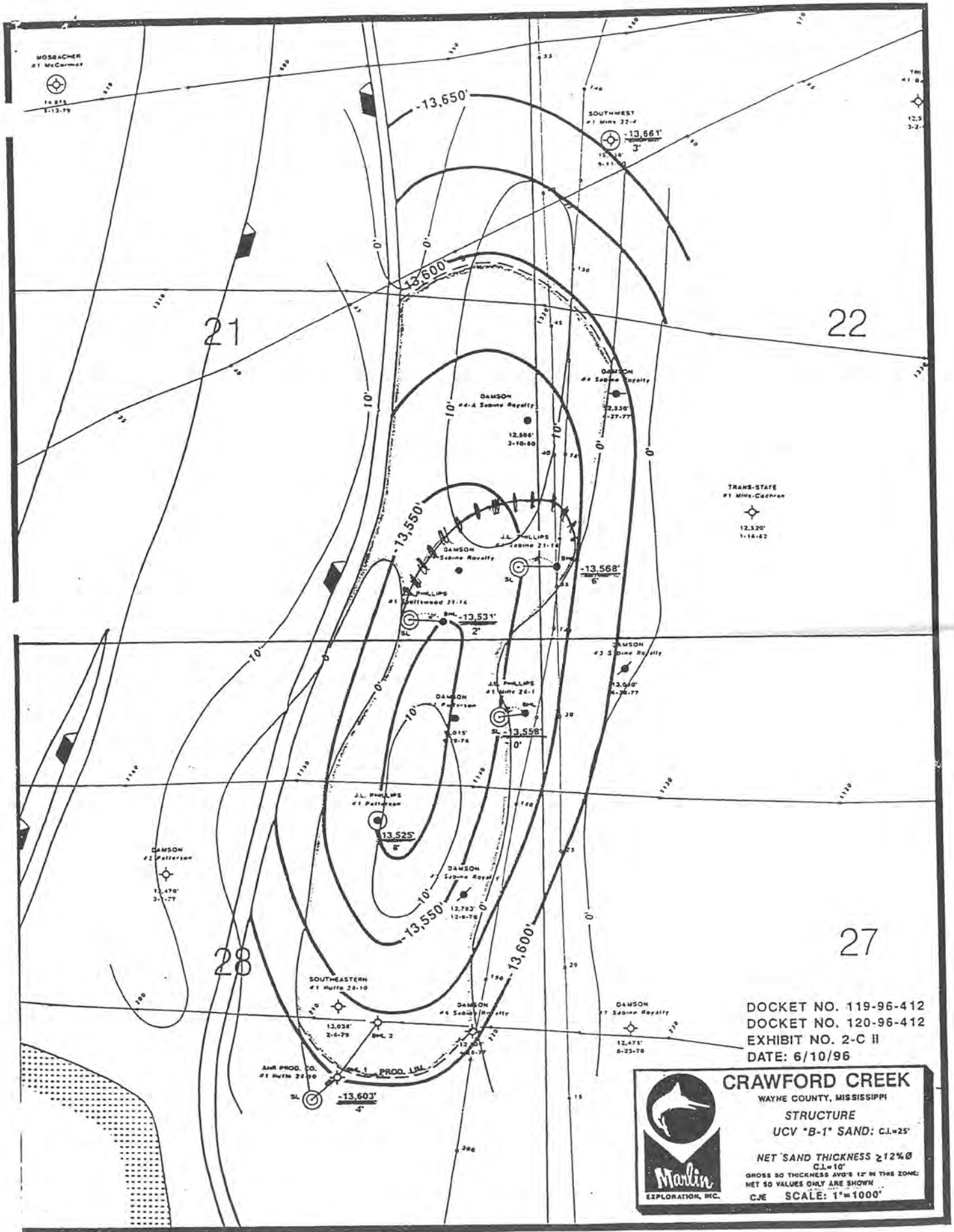
FIELDS WITH COTTON VALLEY PRODUCTION

1. Soso '58
2. W. Heidelberg '59
3. W. Yellow Creek '62
4. Pool Creek '64
5. Bay Springs '65
6. Lorena '65
7. Tallahala Creek '66
8. Qutman '66
9. Shongelo '66
10. Chaparral '68
11. E. Tallaha Creek '68
12. Diamond '68
13. Winchester '69
14. Bryan '69
15. Stringer '69
16. Sattaha '70
17. West Clara '70
18. Missionary '71
19. Glancy '71
20. McNeal '73
21. Waldrup '73
22. S. Summerland '74
23. Calhoun '75
24. Shelton Creek '76
25. Reedy Creek '77
26. Mossyville '77
27. Marthaville '77
28. Mill Creek '79
29. Mechanicsburg '80
30. Orange '80
31. Catahoula Creek '81
32. Sharon '81
33. Bovina '82
34. Oak Ridge '83
35. W. Eucuttia '84
36. Collins '84
37. Newman '84
38. Waynesboro '85
39. Edwards '85
40. Bolton '87
41. Seminary '88
42. E. Waynesboro '89
43. Tallahoma Creek '90
44. Peachtree Creek '93
45. Crawford Creek '94
46. Enterprise '94
47. Maynor Creek '95
48. Tiger '96

On this and the following two pages are structure maps from the Oil & Gas Board files on two recent Cotton Valley discoveries.



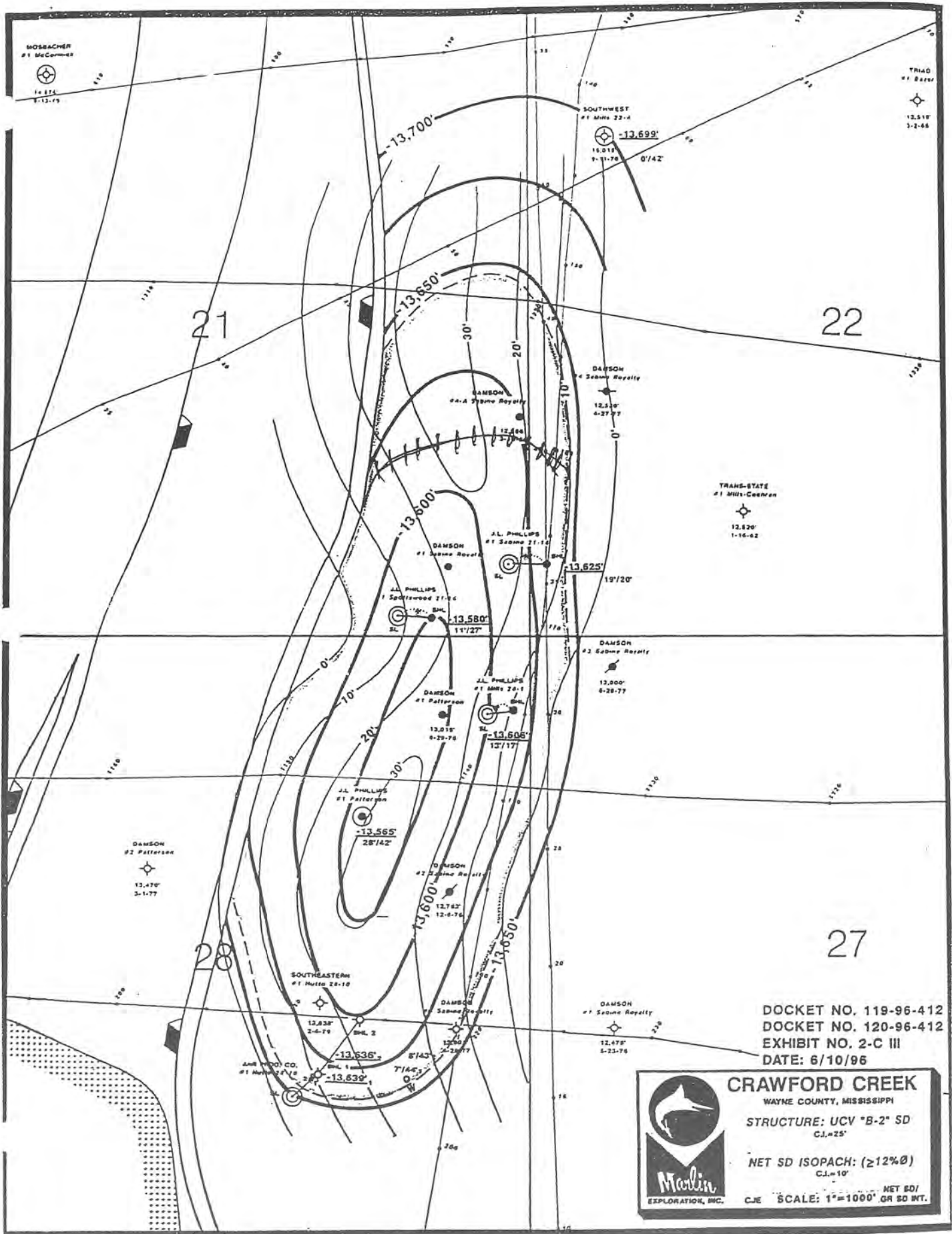
Modified from PetroCorp exhibit in Miss. Oil & Gas Board files.



DOCKET NO. 119-96-412
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CRAWFORD CREEK
 WAYNE COUNTY, MISSISSIPPI
 STRUCTURE
 UCV "B-1" SAND: C.I.=25'
 NET SAND THICKNESS ≥12%Ø
 C.I.=10'
 GROSS SO THICKNESS AVG'S 12" IN THIS ZONE:
 NET SO VALUES ONLY ARE SHOWN
 CJE SCALE: 1"=1000'

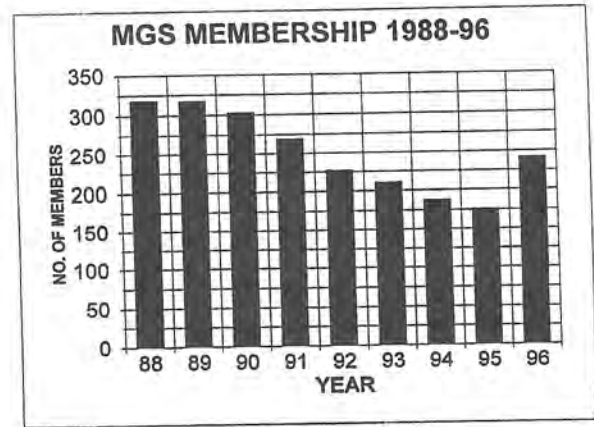


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 DOCKET NO. 120-96-412
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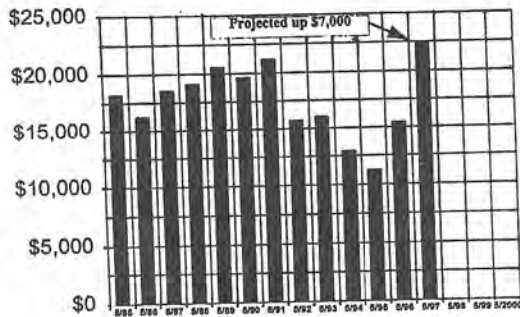
CRAWFORD CREEK
 WAYNE COUNTY, MISSISSIPPI
 STRUCTURE: UCV "B-2" SD
 C.J.=25'
 NET SD ISOPACH: (≥12%θ)
 C.J.=10'
 NET SD/
 EXPLORATION, INC. SCALE: 1"=1000' GR SD INT.

YOUR SOCIETY AT A GLANCE

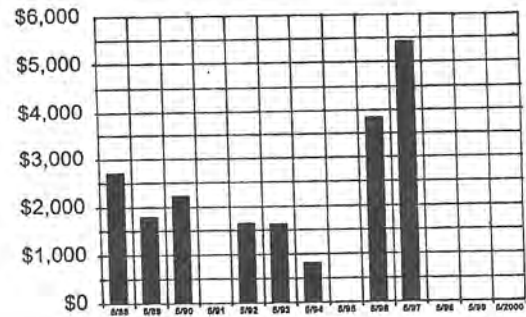
Although the figures for this year are not final yet, we want to suggest a format of reporting the society's business trends. I would like to see such a "Society at a Glance" format included in the first fall bulletin each year. I seriously doubt that many read detailed treasurer's reports, but most will take a quick look at graphs like these. By such a glance, all can see where we've been and where we need to concentrate, with respect to the graphed items.



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MISSISSIPPI GEOLOGIC REGISTRATION A REALITY

by Rick L. Ericksen

On April 1 the Mississippi House passed the conference committee geologic registration bill by a 116-2 vote and the next day it was passed in the Senate by unanimous vote. The bill then was sent to Governor Fordice, who on April 10, 1997, signed the bill which created "The Registered Professional Geologists Practice Act of 1997". The law will go into effect on July 1, 1997 and the "grandfathering" provision will begin when applications become available by the new board (The Mississippi Board of Registered Professional Geologists). The "grandfathering" period will extend to December 31, 1998 to allow all those qualified ample time to register under this provision. The announcement of the first availability of application forms will be profusely distributed to all the professional geological societies and organizations so no one will miss out.

Should you have any questions, comments, or need additional information you may contact the Committee's chairman, Rick Ericksen at the following address:

Rick Ericksen, Chairman
Mississippi Geologic Registration Task Force
P.O. Box 254
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Phone - (601) 961-5507

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