HOUSTON GEOLOGICAL SOCIETY

BULLETIN

February, 1983

HGS FEBRUARY CALENDAR

February 16, 1983 (Luncheon Meeting)
The Meridian Hotel (Second Floor), 400 Dallas
Lee T. Billingsley
Monterrey Petroleum Corporation, San Antonio, Texas
“GEOMETRY AND MECHANISMS OF FOLDING RELATED TO GROWTH FAULTING IN NORCROFT FIELD [PALM, WILCOX], DEWITT COUNTY, TEXAS”
Dinner Period: 11:30 A.M., Luncheon and Meeting 12:00 noon
Reservation by name (telephone only 721-8216) must be made or cancelled by noon, Monday, February 14, 1983.

February 28, 1983 (Evening Meeting)
The Westin Galleria Hotel, 5800 West Alabama
Joint Meeting with the Houston Association of Petroleum Landmen
John L. Rentin, Mineral Management Service, New Orleans, Louisiana
“MINERAL MANAGEMENT SERVICE TODAY”
Social Period: 5:00 P.M., Dinner and Meeting 7:00 P.M.
Reservations by name (telephone only 771-4315) must be made or cancelled by noon, Friday, February 25, 1983.

NOTICE: March 7 is joint meeting with Geophysical Society of Houston. Admission will be by advance ticket purchase only. Be sure to include a self-addressed, stamped envelope with all ticket purchased. Price is $15.00. Deadline is Friday, March 4.

February 16, 1983
Geo-Wives Luncheon
Revereaux Country Club
Get Mrs. Jack Stevenson (383-8262)

February 25, 1983
Las Vegas Night
Merritt West Loop
HOUSTON GEOLOGICAL SOCIETY
8916 Ashcroft
Houston, Texas 77081
771-8315
(Alternate phone: 771-5421)

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PRESIDENT'S COMMENTS

AAPG DELEGATES

Those who are members of AAPG will be receiving ballots this month. From the names listed on those ballots, you will select 23 new AAPG delegates, bringing the total number of delegates our Society has to 47 effective July 1, 1983. The terms of delegates are staggered; these 23 new delegates will serve 3-year terms beginning July 1, 1983.

We currently have 42 delegates, and they or their alternates will be attending the AAPG House of Delegates meeting in Dallas in April as your representatives. A list of the current delegates was published in the September issue of the HGS Bulletin. Please feel free to call or write any of those delegates or the foreman, Claude Rust, regarding AAPG matters which should be considered by the House of Delegates. See the November 1982 AAPG Membership Directory, Article III of the Bylaws, for information regarding election and responsibilities of delegates.

Currently, less than 75 percent of the HGS holds membership in AAPG. If our total membership belonged to AAPG, we could add 16 or 17 more delegates to the 47 we are now entitled to. Many of you have served as AAPG delegates, but the majority of our membership may not realize that being an AAPG delegate involves more than attending the annual House of Delegates meeting. It means many hours of time spent throughout a delegate's 3-year term processing applications for AAPG membership, keeping abreast of AAPG activities, and acting as a liaison between the local society and AAPG. The local delegates generally meet once a month.

Thanks to all of you who have served as delegates in the past and who are now serving.

SOCIETY PARTICIPATION:

In my comments in the January Bulletin, I mentioned the fact that attendance at our technical meetings ranges between 4.5 and 15% of our membership. I also asked for suggestions and offers of help for some projects that we might get involved in, including publications. As yet, it is too early to have any responses to those comments (I'm writing this in late December). However, it seems that response to all the Society's offerings (except the Shrimp Pep) and requests is very limited.

Dick Bishop and his staff announced the beginning of a "Pipeline" in the Bulletin to give members an opportunity to express their opinions on technical and professional matters. When I last asked, only one letter had been received. I've had very few responses and comments regarding past columns published in the Bulletin wherein I specifically asked for your input. The Continuing Education Committee's efforts in arranging the 2-day course on Reservoir Geology were rewarded with a total attendance of a mere 70 people! Those who went praised the course and found it very worthwhile. But I find it difficult to believe that only 70 out of approximately 4400 members would find such a subject of interest and/or could find the time to attend. I don't believe companies sending employees for such training could find a comparable course that would cost so little in both time and money.

Please take the time to write or call me or a member of the Executive Board or a committee chairman or the Bulletin Editor and express your opinion or offer suggestions.

Franklin P. Jones said: "Silence gives consent, or a horrible feeling that nobody's listening." I'm beginning to feel as if it's the latter.

PEGGY RICE
President

COVER PHOTOGRAPHS NEEDED

The HGS Bulletin is in need of photographs for use on covers of future issues. Photos should relate to Texas geology or geological industries and should be clearly captioned. Color or black-and-white prints are acceptable, however, they should measure approximately 8" x 10" and must be oriented horizontally. If you would like to submit a photograph for consideration, please query Susan Conger-Morris, 754-1936 or 495-6071

TRADER'S COLUMN

The "Traders Column" makes free advertising space available to HGS members who have items available for one time transactions. Items must be submitted six weeks in advance of publication.

HG^A PARTY (Spouses Included!) — March 12, 1983

An informal seafood buffet dinner will be held at the Houston Club on Saturday, March 12th for the Houston Geological Auxiliary members and their spouses. If you are interested in attending, remind your spouse it is not too late to join the Auxiliary. Potential Auxiliary members should contact Mrs. Charles Trowbridge at 468-3161.

SOCIETY CALENDAR FOR MARCH

March 7, 1983 (Dinner Meeting)
Joint Meeting with the Geophysical Society of Houston The Westin Galleria Hotel .................. $18.00
Speaker: Dr. Frank Rhodes, President - Cornell University

March 23, 1983 (Luncheon Meeting)
The Sheraton Houston Hotel
Speaker: Dr. Stewart Chuber, Consultant
"Productive Lower Wilcox Stratigraphic Traps from an Entrenched Valley in Kinkler Field, Lavaca County, Texas."

NOTE: You must purchase your ticket(s) in advance for the March 7 evening meeting.

Tickets for the joint meeting with the Geophysical Society of Houston are $18.00. Deadline for purchasing tickets is noon Friday, March 4. You may purchase tickets at the February 16 & 28 meetings or by sending your order with a check and a stamped, self-addressed envelope to:
Houston Geological Society
6916 Ashcroft
Houston, Texas 77081

PRICE SCHEDULES — FEBRUARY HGS MEETINGS

February 16, 1983 (Luncheon Meeting)
The Meridien Hotel .......................... $13.00
February 28, 1983 (Dinner Meeting)
The Westin Galleria .......................... $18.50
RESERVATIONS (771-8315)

Telephone reservations are required. Please make reservations for the Wednesday Luncheon meeting by the preceding Monday noon and for the Monday evening meeting by the preceding Friday noon.
NOON MEETING—FEBRUARY 16, 1983
LEE T. BILLINGSLEY — Biographical Sketch

Lee Billingsley is an exploration geologist with Monterey Petroleum Corporation in San Antonio, Texas. He received his B.S. degree in geology from Texas A & M in 1975, his M.S. degree in geology from Colorado School of Mines in 1977 and will receive his Ph.D. in geology from Texas A & M in 1983. Lee worked for Tenneco and American Quasar in Denver from 1977 to 1979 before returning to Texas A & M to complete his Ph.D. studies. While attending graduate school at A & M he started serving as a consultant to Monterrey Petroleum Company and is now responsible for their exploration efforts in the Anadarko Basin and the Wilcox of South Texas. Lee was the Texas A & M student recipient of the Houston Geological Society’s “Outstanding Student Award” for 1980-81. He is a member of the AAPG and the South Texas Geological Society.

GEOMETRY AND MECHANISMS OF FOLDING RELATED TO GROWTH FAULTING IN NORDHEIM FIELD AREA (WILCOX)

The Nordheim area in western De Witt County, Texas has produced over 121 billion cubic ft of gas, of which over 53 billion cubic ft has come from the deep lower Wilcox. Consequently, a better understanding of folding in the Nordheim area should aid future exploration efforts, especially in the deeper (greater than 10,000 ft) Wilcox. Methods are presented which show how various folding mechanisms have influenced the present day fold geometry. The folding mechanisms recognized are: mechanical folding, or folding due to faulting; drape compaction; and differential compaction. Important geometric aspects of folding at Nordheim include: a) thin intervals overlying fold crests, b) the shift of fold crests along dip and strike at various depths and c) the role of compaction in influencing the final fold geometry.

“Upfolding” is the term used to describe the fold mechanism which causes thin intervals over fold crests. The thin intervals indicate upward movement relative to regional dip because the thickening occurs in all directions from the fold crest, and not just in the direction of the growth fault. Upfolding is the dominant mechanism of folding in the Nordheim area. Most of the folding not caused by upfolding is caused by either drape or differential compaction. For example, upfolding of the Migura horizon in the lower Wilcox caused over 200 ft of thickening off the fold crest in the overlying interval. Total closure at Migura level is about 250 ft. Shallower intervals and horizons show similar relationships between structure and isopach but with less relief.

Mechanisms of folding related to growth faulting by previous authors have been limited to two dimensions. In contrast, upfolding is a three dimensional process. It is believed to originate from material moving down a concave listric normal fault. The concave shape may cause a volume problem, which is overcome by the upward movement of material.

Three specific exploration concepts have been developed as a result of this study.
JOHN L. RANKIN — Biographical Sketch

John L. Rankin is Acting Minerals Manager - Gulf of Mexico, OCS Region, for the Minerals Management Service of the Federal Government in New Orleans, Louisiana. He is a native and former Mayor of Russellville, Arkansas. Mr. Rankin received his LLB degree in 1940 from the University of Arkansas. His law career was interrupted by World War II where he saw duty in both the European and Pacific theaters of action. Following the war he engaged in private enterprise until 1955 when he entered government service as a Land Law Examiner in the Russellville, Arkansas BLM District office. From 1959 to June 1982, Mr. Rankin served as Manager of the Bureau of Land Management’s OCS office in New Orleans with jurisdiction over minerals leasing in the Gulf of Mexico and South Atlantic Region. The guidelines for holding offshore lease sales have been greatly influenced by Mr. Rankin and under his leadership 47 lease sales have been conducted. He received the Departmental Meritorious Service Award in 1981.

HOUSTON LOG LIBRARIES

The following log libraries are being added to the list of log services within the Houston area (see "HOUSTON LOG LIBRARIES", HGS Bulletin, December, 1982). If you know of any that have still been omitted, please contact Susan Morris, Gulf Oil Exploration and Production Company, P. O. Box 1635, Houston, Texas 77251, or telephone 713/754-1936.

Southern States Log Library: This noncommercial library is located at 911 Walker, Suite 350. The available services cover Texas, Districts 1 through 6, and Louisiana with Tobin maps, electrical logs, scout tickets, and completion reports. For membership information, contact Barbara Knox, 713/225-2175.

Houston Log Association, Inc: This noncommercial geological library is the oldest library in Houston and was founded in 1967. The library is located in The Main Building, Suite 555, Houston, Texas.

The available services cover Texas, Districts 1 through 6, and South Louisiana, Tobin maps, electrical logs, scout tickets, and completion reports. The library also has a complete set of AAPG Bulletins with indexes and bibliographies and a complete set of GCAGS Transactions. The library stresses the availability of geologic reference material. For membership information, contact Mary Belle Melton, manager, or Brenda Brocato, assistant manager, at 713/658-8499.

Geological Data Services, Inc.: This is a non-commercial geological data library located in the Americana Building at 811 Dallas, Suite 930.

Available services include Tobin base and lease maps, major oil company scout tickets, completion cards and reports, production data, Louisiana Conservation Commission hearing maps, field rules for Texas and Louisiana, well logs, AAPG Bulletins 1928-1981, GCAGS Transactions books for Texas and Louisiana, Louisiana Paleo, many assorted books and research papers pertaining to the oil and gas industry and 25,000 logs covering West Texas.

All materials cover Texas R.R. Commission Districts 1-6, North and South Louisiana, and Southern Arkansas. Copying facilities are also available.

Three types of membership are currently available: Investor (which time payments may be arranged), Associate and Pool. For membership information contact E. Douglas Muery, Manager at the library 713/658-0033.

Petroleum Information: PI has a Log Department at 4100 Westheimer, Suite 280, (713-871-1974), and three separate Geologic Information Centers. Two of these libraries are hardcopy and one microform library.

Hardcopy libraries are located at 1200 Milam in the Entex Building, Suite 326, (713-658-9573), and at 4100 Westheimer, Suite 280, (713-961-7891). Services available at these two locations include well logs for Texas districts 1 - 6 and South Louisiana; completion cards for Texas districts 1 - 10, Louisiana, Arkansas, the Southeastern U.S., and Texas and Louisiana offshore; monthly and annual production reports for Texas districts 1 - 6 and offshore, Louisiana onshore and offshore, and Federal offshore; current drilling progress reports for Texas districts 1 - 6, Louisiana, Mississippi, Arkansas and Alabama as well as offshore Louisiana and Texas. Base map coverage includes Texas districts 3, 5, 6, and South Louisiana. Lease map coverage is for Texas district 4, and portions of districts 1, 2, and 3.

The microform library is located at 1121 Walker, (713-229-0003), and covers the Mid-Continent, Rockies, West Coast and Alaska, North Louisiana, and North and West Texas. Services include logs and historic completion cards on microfilm and microfiche for the Mid-Continent, (including Oklahoma Drillers Logs), the Rockies, (including Arizona), California, North Louisiana, Illinois and Indiana; monthly and annual production reports for the Mid-Continent, Northeast, Rockies, North Louisiana, and Texas districts 78 - 10; current drilling progress reports for the Mid-Continent, North Louisiana, Permian Basin, Rockies, West Coast, and the Texas Panhandle and High Plains areas. Hardcopy base map coverage in the microform library includes the Rockies, Mid-Continent, and Texas Panhandle. Lease maps are available for Oklahoma, West and North Texas.

Monthly memberships are available or use can be made on an hourly or daily basis for nominal rates. For more information, contact the librarian at each location or Lyn Turner, 713-961-5660.

PASSAGES

The Society has received notice of the passing of the following members.

Glenn Rice, Senior Vice President for Anadarko Production Co., died in Spring, Texas, December 8, 1981.


Carl F. "Fred" Pampel, Consulting Geologist, died April 24, 1982.

Ray H. Krone, Chief Geologist for Davis Brothers, died July 19, 1982.

William K. "Ken" Davis, 66, President of Transamerica Oil Co. died in Houston, August 29, 1982.

Donald H. Jones, Independent, died in Houston, November 7, 1982.


1982-83 CONTRIBUTORS TO GENERAL ENTERTAINMENT FUND

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Many thanks to the above contributors for their donations to the general entertainment fund that will help subsidize events this winter and spring.

HGS TRAP AND SKEEt SHoot

The HGS Trap and Skeet Shoot scheduled for May 14, 1983, has had a good show of interest. The plan to date is to have a shoot comprising 50 birds in trap and either 25 or 50 birds in skeet. Time limitations may prevent shooting a total of 100 birds as previously planned. Prizes are planned for various groupings of total scores. Sponsors to date include ExLog for the grand door prize, Drwser Atlas for the beer and soft drinks (no hard liquor as a safety precaution), and Baroid for their excellent barbeque lunch. Other companies interested in serving as sponsors and those shooters who have not mailed in their "show of interest" questionaires should contact Dave Lazor at Valero Producing Co., 11767 Katy Freeway, Suite, 660, Houston, Texas 77079, (Ph. 713/497-6711).

3RD ANNUAL RACQUETBALL TOURNAMENT AND PACMAN COMPETITION
March 4, 1983

The Houston Geological Society will hold its Third Annual Racquetball Tournament on Friday, March 4, 1983, at Courts Etc. Racquetball Club at 2620 Tanglewilde in the Woodlake area near Westheimer and Gessner. This is the same place that the tournament was held the last two years.

Matches will begin at 10:00 a.m., but players should check in before that time. Players who miss their first round of competition will be out of the running (e.g. Stu Chuber). Please note that this is the only day of the tournament and it is during working hours for some of us, so please make arrangements to stay for awhile.

Each person should indicate level of skill on the entry form (please - no sandbaggers). The tournament director may reclassify people if necessary. The tournament will be by single elimination with a consolation round. Matches will be two games to 15 points with a tiebreaker to 11.

Entry fees are $15.00 per person and include court time, balls, lunch, refreshments, t-shirts and trophies. The deadline for signing up is Wednesday March 2, 1983. The field may be limited so entry fees should be mailed as early as possible.

If you wish to volunteer, please contact the appropriate coordinator.

To enter please fill out the following:

NAME: ___________________________________________  BUSINESS ADDRESS: __________________________

BUSINESS PHONE: ________________________________

CLASS (circle one) A  B  C  NOVICE

Entry Fee: $15.00 (attach check payable to HGS Entertainment Fund)

Mail to: Herb (Stu) Stouffer 681-9742
         Hunt Oil Company
         2950 North Loop West
         Suite 900
         Houston, Texas 77092
THE HOUSTON GEOLOGICAL SOCIETY
2nd ANNUAL LAS VEGAS NIGHT

FRIDAY, FEBRUARY 25, 1983

at the

MARRIOTT WEST LOOP
GALLERIA AREA
1750 WEST LOOP SOUTH

TIME: 8:00 p.m.
PRICE: $20.00 (Advance-Per Person)
        $25.00 (At Door-Per Person)

Hors D’oeuvres
(Snacks)
CASH BAR

FREE WINE
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HGS
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Houston, Texas 77081
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HGS EXHIBITS COMMITTEE
CRAIG E. MOORE — Biographical Sketch

Craig received a geophysical engineering degree from the Colorado School of Mines in 1963 and joined Texaco, working mainly in geophysical processing. From 1970 to 1972 he served Uncle Sam in the magnetics and gravity groups of the Corps of Engineers and the Army Mapping Service. Upon leaving the service Craig joined Gulf where he remained until 1978. His time at Gulf was spent predominantly in international operations as a seismic interpreter. In 1978 he joined the Natural Gas Pipeline Company and stayed until 1980 when he moved to Trinity Resources where he now serves as Chief Geophysicist.

In addition to his activity in HGS, Craig is a member of AIPG, SEG, SPWLA, SPE, AGU, GSH, European Association of Exploration Geophysicists, and is a member and delegate of AAPG. Craig has been chairman of the Exhibits Committee of HGS for two years.

ABOUT THE COMMITTEE
The Exhibits Committee takes responsibility for planning and staffing exhibits of the Society at meetings across the country, especially the AAPG and GCAGS conventions. Exhibits often include HGS publications, information regarding membership benefits and requirements, and special publications about the geology of the Houston area. Craig works closely with the Publications Committee months in advance of any meeting to make certain everything runs smoothly.

PERSONNEL COMMITTEE
JOSEPH FORREST — Biographical Sketch

Joe graduated from Middlebury College, Vermont in 1967 and earned a Ph.D. in geology from Rice in 1975. He began his professional career in 1974 as a geologist with Amoco International Oil Company after spending two years in Switzerland as a Post Doctoral Fellow at the Swiss Institute of Technology. In 1977 Joe joined the international exploration arm of Allied Chemical and remained there until 1979. Since then he has been with Texas Eastern Transmission Corp. where he now serves as exploration manager.

ABOUT THE COMMITTEE
The Personnel Committee, of which Joe is chairman, helps explorationists find employment and helps employers find qualified paraprofessionals. The Committee maintains files of both resumes and employment opportunities and is geared to help people at all levels of experience. In the last two years, over 300 people have submitted resumes to the committee, while approximately 20 companies have posted available positions. In that time at least 10 openings have been filled through the efforts of the Committee.

The task of the Committee is now aided by the publication of the Employment Column in the Bulletin. Interested explorationists are encouraged to submit one or two sentence descriptions of desired positions to:
Personnel Committee
Houston Geological Society
6916 Ashcroft
Houston, Texas 77081

Prospective employers are urged to list openings in the column as well. See the November Bulletin for more information.

HGS EMPLOYMENT COLUMN

The HGS employment column is an extension of the HGS Personnel Committee and its primary goal is to help geologists seeking positions get in touch with prospective employers. We shall list 'situations wanted' by HGS members at no cost. Companies may list 'positions open' for a nominal donation to the Memorial Scholarship Fund. In addition, the Personnel Committee periodically will attempt to summarize the unadvertised 'positions wanted' and 'positions available' that exist in their files.

Individuals interested in placing an ad should send a brief description of experience and position desired to:
Personnel Committee
Houston Geological Society
6916 Ashcroft
Houston, Texas 77081

Upon receipt, the Personnel Committee will assign a code number to the person. This small committee (two persons) will have sole knowledge of those seeking positions. When written responses to a code number are received, the Personnel Committee will forward the unopened letter to the person placing the ad. (The committee will not respond to phone calls.) At that point, HGS will have no further part in the communication between geologist and prospective employer.

SITUATIONS WANTED

Geologist 4 yrs. experience, B.S. (with honors) desires position with aggressive firm. Experience in mudlogging, petrochemical contaminant recovery, field mapping, shallow seismic interpretation. Code 130.

Geologist 8 yrs. experience, prospect generator in Gulf Coast, West Texas and Rocky Mountains. Seeks position with aggressive exploration company. Code 140.

Geologist 20 yrs. experience in Gulf Coast mesozoic, structural/stratigraphic plays, integration of seismic data. Desires position with company needing consultant on seismic data inventory. Code 150.


Geophysicist 3 yrs. experience international and Gulf of Mexico. Desires position with international division. Code 170.


Geologist M.S. degree, 1+ years of major oil company experience. Highly motivated and energetic. Seeks challenging position. Code 220.
OFFSHORE GULF COAST

While the onshore rig count has increased somewhat to over 2600, the offshore rig count has experienced a slight decrease. This is probably related to the weak gas demand and the fact that much of the offshore exploration is directed toward gas-condensate accumulations.

Exxon will drill their #1 OCS-G-4989 to 16,000' in the Miocene on Mustang Island, East Addition Block A-60. The test is 8 miles northwest of Block A-85 Field and will be drilled in 200' of water.

In the Eugene Island area offshore Louisiana, Texaco has announced a 19,000' Miocene test in Block 29, 4 miles north-northeast of Eugene Island Block 45 Field.

The first two producing wells on Main Pass Block 313 Field have been completed by Gulf from their 24 slot production platform. The Pliocene production at the #A-1 was 734 BOPD from perfs 7669-7714' while the #A-2 was completed from perfs 7908-7986' for an IPF of 1119 BOPD. The new field is 3 miles northwest of South Pass Block 62 Field.

ONSHORE GULF COAST

Lower Texas Gulf Coast

In the Lower Texas Gulf Coast, Exxon will drill a rank Frio wildcat to 11,400' in the old Flour Bluff Field of Nueces County. The #1 Laguna Madre State Tract 62 should encounter reservoir quality Frio sands from about 7000' to TD. At the Frio level the proposed test appears to be near a secondary structure on the southeast flank of the Flour Bluff Field.

Exploration for lower Wilcox and Midway sands continue to expand in Webb County where T.D.C. Engineering has staked a 10,500' test 1 mile northwest of Schwarz Field. The thin, tite Wilcox sands at approximately 8500' in nearby tests and deeper sands possibly in the Midway are the primary objectives. No apparent structure is mapped at the Carrizo level but the test should be updip to production at Schwarz Field.

A 16,500' Vicksburg test has been staked by Shell Oil Co. in Hidalgo County. The test is 3 miles north-northwest of Vicksburg production at Lips Ranch Field and although subsurface information is sparse, a fairly well-developed Vicksburg sand development is anticipated. At the Vicksburg level the proposed test is on the north flank of an upthrown fault anomaly, but other interpretations are possible due to lack of subsurface control.

Hughes & Hughes has announced a new Frio discovery in San Patricio County. The oil discovery is on the west flank and apparently is upthrown from Taft South Field. Completion was from perfs 8494-8521' with an IPF of 106 BOPD plus 227 MCFGPD.

Also in San Patricio County, Transcontinental has completed their #39-1 McCampbell as a Frio discovery. From perfs 12,138-12,191' overall the IPF was 38 BOPD and 24 MCFGPD. The discovery is on the west flank of McCampbell Field.

A Vicksburg discovery on the northwest flank of Strong Field structure in Starr County has been reported by Harwood Exploration. Completion was from perfs 7015-7018' with an IPF of 4.8 MCFGPD. The new discovery is interpreted to be about 1000' low to production at Strong Field.

Exxon has completed a Frio discovery in Kenedy County about 2 miles south of San Jose South Field. The test is on the north flank of an interpreted structure at Frio level. Completion was from perfs 7411-7420' with an IPF of 3.0 MCFGPD plus 7 BCPD.

Middle Texas Gulf Coast

In the Middle Texas Gulf Coast, M. V. Stewart has acquired permit for a 4800' Frio test 2 miles northwest of Sinton gas production at O'Brien Field in Goliad County. The test appears to be updip from O'Brien Field on regional southeast dip with the Marg. tex. sands fairly well developed from about 3700' to TD.

A Yegua gas discovery in Bee County has been reported by Tepco Engineering. The new discovery is between, and on trend with, Beeville-Singleton Fields to the northeast and Bolland Ranch to the southwest. Completion was from perfs 3846-3858' with an IPF of 550 MCFGPD plus 5 BCPD.

Shenango Oil Co. has completed their #1 Lippe-Hyatt in Caldwell County as an Austin Chalk discovery. The discovery is about 4-1/4 miles northwest of the Luling-Branyon Edwards producing area, and is in an area where faulting paralleling the Luling trend is present. Completion was from Austin Chalk perfs 1638-1672' with an IPF of 35 BOPD plus 11 BWPD.

Placid has scheduled a deep 25,000' Jurassic test at their #1 Peeler in McMullen County. It is about 5 miles east of San Miguel Creek Field which produces from the Edwards and Wilcox. Objectives for this test are probably the Cotton Valley and Smackover carbonates. These units are hard to separate in this area and the reservoir quality is speculative for both zones. Faulting related to the San Miguel Field might extend to this area.

Another Austin Chalk discovery has been completed by Primary Fuels at their #1 Treybig in Karnes County. The discovery is about 2 miles northwest of Davy Field which produces from the Edwards with entrapment related to faulting in the Karnes Trough. The new Austin Chalk discovery probably is related to fracturing associated with the faulting in the Karnes Trough fault system. Completion was from perfs 9710-9874' with an IPF of 102 BOPD, 20 MCFGPD, and 18 BWPD.

Upper Texas Gulf Coast

In the Upper Texas Gulf Coast, Union of California has staked a 15,900' Woodbine test in Polk County. The drillsite is 1 mile south of Yegua production at Camp Ruby Field and about 7 miles west of the nearest Woodbine production at the Gulf #1 Carter. Although the Woodbine sands are thin and tite in this forereef position they are fairly erratic and could develop thicker zones. Only southeast regional dip is indicated at the base Austin Chalk level, but other interpretations are possible due to lack of control.

In Hardin County, ARCO has acquired permit for a 13,300' Wilcox test at their #1 ARCO Bankston Fee. The test is 3 miles southeast of Yegua production at McGill Field. The Wilcox sands are fairly well developed from about 12,900' to 13,200' and at the top of Wilcox horizon, the test is interpreted to be on the east flank of a large roll-over fault structure.
South Louisiana

In southwest Louisiana, Transco Exploration has staked a 10,000 Frio test in Calcassieu Parish. The Frio (Hackberry) sands are thin and occur only erratically in this area. At the Hayes mapping horizon, the test is in a saddle between the Starks Field structure and another structural anomaly to the northeast.

ARCO is preparing to drill a 15,500’ Miocene and Anahuac test 2-1/3 miles north of Little Cheniere Field in Cameron Parish. Several well-developed sands are present in the lower Miocene but very few sands are present in the Anahuac in updip tests. At the Siphonina davisi horizon, the proposed test is interpreted to be on north dip on the downthrown side of a northeast trending fault.

Mark Producing is preparing to drill a 13,000’ middle Miocene test at their #1 State Lease 9992 in St. Charles Parish. The test is 3 miles west-northwest of Lake Salvador Field and Cris ‘I’ sands similar to the field producing zone could be present. At the Cristellaaria ‘I’ horizon, the proposed test appears to be in a saddle with no apparent structural anomaly.

In La Fourche Parish, Westland Development Co. has acquired permit for a 16,500’ Big. hum. test. Sparse sand development occurs in nearby tests and at the Textularia ‘W’ horizon, the proposed test is several hundred feet downdip and on the west flank of Cut Off Field.

Great Southern has completed their #1 Schwog as a Planulina discovery 4 miles northwest of Iberia Field in Iberia Parish. Completion was through perfs 9406-9410’ with an IPF of 850 MCFGPD plus 5 BCPD. The test is on regional south dip at Marginulina ascensionensis level without any apparent local anomaly.

MESOZOIC TREND

East Texas Basin

In the north part of the East Texas Basin, Conoco will drill a 9800’ Quachita facies test in Lamar County. Nearest production is 32 miles east in Woodlawn Field. The Quachita facies in this area will probably consist of clastics of Stanley-Jackford age and the TD might be sufficient to penetrate the Arkansas Novaculite, a producing zone to the northwest in Oklahoma. The structural conditions are speculative in this area.

Superior has staked a 12,600’ Smackover test in Titus County. The test is 7-1/2 miles northeast of Smackover production in Prairie Branch Field. This area has fairly good Smackover carbonate reservoir development, but structural anomalies have been difficult to locate. Only regional south dip is indicated from subsurface control at the Smackover level.

Marshall Exploration has completed their #1 Jones as a deeper pool Cotton Valley sand discovery in Minden Field, Rusk County. This area is near the south extent of Cotton Valley sand production in East Texas but the sands are still fairly well developed and apparently gas productive. A broad southwest plunging structural nose is present at the new discovery at the base ‘B’ Lime level. Completion was from Terryville (Cotton Valley) sand perfs 9958-10,127’ with an IPF of 364 MCFGPD after a massive sand frac.

A Pettet gas discovery has been completed by Sun Exploration at their #2 Dunlap in Freestone County. The new discovery is on the northeast flank of the Burleson Hill East Field structure and was completed for an IPF of 620 MCFGPD plus 10 BCPD from perfs 9114-9133’.

Also in Freestone County, Pettus Operating has completed their #2 Carpenter as a Rodessa discovery. The new discovery is located just north of Ingram Trinity Field which also produces from the Rodessa. No structural anomaly is present at the base Massive Anhydrite horizon and the entrapment may be partially stratigraphic. Completion was from perfs 7438-7448’ with an IPF of 474 BOPD and 365 MCFGPD.

J-O’B Operating has completed a James Lime producer in Shelby County about 2 miles northeast of Bridges Field. The well was completed from perfs 6295-6424’ for an IPF of 865 MCFGPD plus 4 BCPD. The James Lime is in a basal carbonate facies in this area and the structural conditions are interpreted to be regional southwest dip at the top Pettet level.

North Louisiana - South Arkansas

In the North Louisiana Basin, Placid Oil has scheduled a 16,500’ Cotton Valley test in Nachitoches Parish. The upper Cotton Valley Troy-Knowles limestone unit will probably be encountered in this test and the reservoir quality could be fairly good. The Smackover if penetrated probably will be a basal facies of tight limestones with marginal porosities. Southeast regional dip is mapped at the base ‘B’ Lime horizon in this area.

To the southeast in Avoilles Parish, McCormick Operating has drilled to a TD of 15,340’, set 5-1/2” and are preparing to test at their #1 Broadhead. This is an area of shallow Wilcox production on the LaSalle Arch where the Sligo could have fair carbonate reservoir quality. The overlying Lower Glen Rose carbonates are also fairly well developed. Due to lack of deep subsurface control, the structural conditions are speculative at this test.

In Columbia County, Arkansas, C. M. Roberts has acquired permit for a 7200’ Smackover wildcard just north of Buckner Field. The Smackover “Reynolds Oolite” is well developed in this area where much of the Smackover production is structurally trapped. At the Smackover level the proposed test is low to Buckner Field but in an area where east-west faulting might contribute to structural entrapment.

MAFLA

The northeastern part of the South Mississippi Basin is the site of a rank Smackover wildcard to be drilled by Southeastern Pipe Line Co. at their #1 Harper. The test is near the updip limits of the Smackover in Wilcox County, Alabama. The Smackover was deposited in a clastic environment in this area and fairly well-developed sands should be present in the upper Smackover. Regional southwest dip is present at the Smackover level with the local structure speculative due to lack of subsurface control.

To the south in Escambia County, Alabama, Beau Coupe Oil & Gas has staked location for a 17,000’ Smackover test at the #1 Dees 32-11. The test is about 10 miles southwest of Smackover production at Big Escambia Field. The upper Smackover is fairly dense in this area although some porosity is present in the lower part and the Norphlet sands have poor to fair reservoir quality. Regional dip is to the south in this area at Smackover level.

Transco Exploration has completed the #1 Houston, a Smackover discovery in Scott County, Mississippi. The test is 1/4 mile northeast and updip from the Austral #1 Eichelberger, a dry Smackover test drilled several years ago. A broad southwest plunging nose is present at Smackover level. Completion was from Smackover perfs 13,632-13,729’ with an IPF of 387 BOPD.
A Hinds County, Mississippi, wildcat, the Inexco #1 Downing, has reported significant amounts of oil and gas from production tests at 15,036-15,084' and 15,124-15,132' in the Houston. The test is about 5 miles southwest of the multipay Bolton Field and probably is located on an interdomal structure between the Edwards Dome to the northwest and the Learned Dome to the southwest.

NATIONAL ASSOCIATION OF BLACK GEOLOGISTS AND GEOPHYSICISTS

The National Association of Black Geologists and Geophysicists invites interested persons to their next dinner meeting, Thursday, February 3, 1983, 7 p.m., at the Americana Inn, 3301 Southwest Freeway (across from Greenway Plaza). Mr. Robert Crawford, Marketing Research Engineer with Schlumberger, will speak on “Borehole Seismic Products”.

LOW PERMEABILITY GAS RESERVOIRS SYMPOSIUM - MARCH 14-16, 1983

The second jointly sponsored SPE/DOE Symposium on Low Permeability Gas Reservoirs will be held March 14-16, 1983 in Denver, Colorado. The Symposium has been successful in bringing together leading technical personnel to examine the latest developments in all phases of this timely subject.

The Program Committee has sought technical papers on all facets of the exploration and development of the low permeability gas reservoir with particular interest in resource delineation, stimulation technology, formation or stimulation evaluation by pressure transient testing and related case studies.

For further information, contact the Program Manager, SPE, 6200 North Central Expressway, Drawer 64706, Dallas, Tx. 75206.

UNIVERSITY OF SOUTHWESTERN LOUISIANA FOUNDATION PROFESSORSHIP

The University of Southwestern Louisiana is seeking an outstanding geologist to fill a Foundation Professorship in Geology. The person selected to fill this position should be dedicated to quality undergraduate and graduate education. The recipient must have achieved recognition in the field of petroleum geology and will be expected to interact with the faculty, students, and industry while actively pursuing research and professional activities.

Qualifications: A Ph.D. is preferred, however a candidate with an M.S. degree and excellent recognition through publications will be considered.

Terms: A nine month academic year, tenure-track appointment at an Associate or Professor rank. Salary minimum $35,000 DOE plus Foundation stipend of $3,000. Starting Date August, 1983.

Applications or nominations should include a detailed resume, brief statement of research interests and list of references to:

Paul Kessinger, Department Head
Department of Geology
University of Southwestern Louisiana
P.O. Box 44530
Lafayette, LA 70504

RW CATALOG FOR SOUTH TEXAS

The Corpus Christi Geological Society has initiated a project to catalog Rw data from South Texas formations. The project is now in the early data gathering phase. The Special Projects Committee welcomes your suggestions and advice on the final report format.

The South Texas Geological Society (in San Antonio) is publishing an announcement calling attention to the project. The well log analysts there have agreed to serve as a collection center for data from San Antonio-based operators with South Texas interests. Similar arrangements are currently being made with other GCAGS member societies.

If you have data which can be made available, or desire additional information on the project, contact:

Lynn Clark, Chairman
Special Project Committee
102 Wilson Tower
Corpus Christi, Texas 78476
(512) 883-8537

SOCIETY OF INDEPENDENT PROFESSIONAL EARTH SCIENTISTS 20TH ANNUAL MEETING

The SIPES 20th Annual Meeting, titled “Geo-Strategies” will be held March 2-4, 1983 at the Hilton Palacio Del Rio Hotel in San Antonio, Texas.

The Post Convention Field Trip will go to Ixtapa, Mexico to study the Geology of the Western Mexican Fold Belt, March 5 through 9, 1983. Headquarters will be at Club Med at Ixtapa. SIPES members and visitors are urged to attend both the Annual Meeting and the Post Convention Field Trip. Registration Chairman is W. C. Ramsey-Palmer, P. O. Drawer 789, Boerne, Texas 78006.

Both the technical papers and the entertainment will be outstanding. Some of the speakers will be Dr. Wm. L. Fisher, Director, Bureau of Economic Geology, University of Texas; Dr. Peter R. Rose, consultant and carbonate authority; Mr. Don Timko, expert log and geochemical analyst; Mr. Jay T. Reagan, Jr., Vice President Minerals Group, United Bank of Denver, Colorado; and Mr. Frank Harrison, SIPES member and past president of AAPG. The entertainment will include a NIOSA (Night in Old San Antonio) party and the Award Banquet with a popular speaker and SIPES member whose topic is “Scout on the Rocks.”

Plan to come to San Antonio. All are welcome!

EVELYN WILIE MOODY
National Director
Chairman Public Information

U OF H ALUMNI MEETINGS

The University of Houston Geology Department Alumni extends an invitation to all graduates to attend our monthly luncheons. The group meets on the second Wednesday of every month at 11:45 a.m. at the Petroleum Club. Yearly membership dues are $6.00 and your first lunch is on us. Call 658-8262 for reservations.

UPCOMING FIELD TRIPS

Field Trip for Non-Geologists: The trip is scheduled for Spring, 1983, and is still in the planning stage.

Mexico or Maverick Basin: This field trip is still in the discussion stage.
GULF COAST CLASTIC DEPOSITIONAL SYSTEMS FIELD COURSE — MARCH 7-12, 1983

A modern clastics field and lecture course on the Gulf Coast will be conducted for members of the HGS on March 7-12, 1983. The itinerary will cover the following sites: Padre Island, Corpus Christi Bay, Matagorda Bay and Cavello Pass, Guadaloupe Delta, and Colorado-Brazos rivers and deltas. Daily orientation lectures, an overflight, on-site coring, and various visual aids will be integrated into the itinerary. Five full days will be spent in the field preceded by a general session the evening of March 6. Special emphasis will be placed on comparisons of these modern settings with equivalent hydrocarbon-producing units in the Gulf Coast and other basins.

Price: $1200.00 per person, includes breakfasts, lunches, one banquet, transportation while on course (including overflight) and all course materials.

Limit: 50 people. (Will separate into two groups.)

To Register: Send a deposit check of $200.00 no later than Feb. 1, 1983 to:
Gulf Coast Field Trip
Houston Geological Society
6916 Ashcroft
Houston, TX 77081
Phone: (713) 771-8315
The balance is due Feb. 14, 1983, with no cancellations (substitutions okay) after this date.

For Additional Information: Roxana Herrera
Dow Chemical, Oil & Gas
(713) 978-3814

GEM AND MINERAL SHOW, February 5-6, 1983

The Clear Lake Gem and Mineral Society will hold its 8th Annual "Best Little Gem and Mineral Show in Texas", February 5-6 at the League City Civic Center, 400 W. Walker, League City, Texas. The show will be open from 9:00 A.M. to 9:00 P.M. on Saturday and from 10:00 A.M. to 6:00 P.M. on Sunday. And just like the big shows, Clear Lake will have dealers, speakers, door prizes, exhibits of gems, minerals and artifacts, swap areas, a gem mine, as well as films and lectures. Contact Mac Robinson, (713) 534-4696, with any questions.

TRANSPORTATION FOR 1983 AAPG DALLAS, TEXAS — APRIL 17-20, 1983

Seats have been reserved for HGS members on Muse and Southwest Airlines to and from Dallas, Texas for the AAPG Convention. Seats are available leaving Houston at both Intercontinental and Hobby airports. All flights will arrive at and depart from Love Field in Dallas. Seats to Dallas are available on Saturday, April 16th, Sunday, April 17th and Monday, April 18th. Seats on returning flights are available on Tuesday, April 19th, and Wednesday, April 20th. There is a large variety of departure times available. Ticket prices (at present time) are $25 each way on Saturday and Sunday, $40 each way weekdays, and $25 each way after 7:00 p.m.

For details regarding individual flights or reservations please contact:
Connie Burke
Frosch International Travel, Inc.
11 Greenway, Suite 111
Houston, Texas 77046
Phone: (713) 850-1566

AAPG-SOUTHWEST SECTION ANNUAL MEETING MARCH 6-8, 1983

The 1983 Convention of the Southwest Section of the American Association of Petroleum Geologists will be held March 6-8, 1983 at the Civic Center in Abilene, Texas. The theme of this convention is "Exploration in a Mature Area." A short course on "Exploration for Sandstone Stratigraphic Traps" will be given by Robert R. Berg. The meeting is sponsored by the Abilene Geological Society.

SCHEDULE OF EVENTS

Monday, March 7
Keynote Speaker
Technical Sessions
Spouse Entertainment
Dinner-Dance

Tuesday, March 8
Technical Sessions
Exhibits
Spouse Entertainment

CORE AND SAMPLE REPOSITORY PLANNED

The Texas Bureau of Economic Geology (BEG) plans to open a major core and sample repository in September of 1984. The facility will be patterned after the renowned Calgary facility. Consequently, the BEG is seeking to expand its holdings of cores and samples from Texas wells. The Bureau requests that operators hold all Texas cores and samples now in possession for the next two years. At that time the Bureau will enthusiastically collect all samples for which others cannot continue maintenance. In the meantime, the Bureau wishes to collect any core that otherwise would be thrown away.

The new facility will cover nearly 2.5 acres and contain nearly 50 miles of shelving. Adjacent rooms will be equipped for convenient analysis of samples and cores.

If you wish to donate, or have any questions, contact:
Mr. E. G. Wermund
Associate Director
Bureau of Economic Geology
University Station - Box X
University of Texas, Austin
Austin, Texas 78712-7508
1983 GSA SECTION MEETINGS AND ANNUAL MEETING

SOUTH-CENTRAL SECTION
March 3–4, 1983
Texas A&M Univ., College Station, Texas

SOUTHEASTERN SECTION
March 16–18, 1983
Florida State Univ., Tallahassee, Florida

NORTHEASTERN SECTION
March 23–25, 1983
Concord Hotel, Monticello, New York

NORTH-CENTRAL SECTION
April 28–29, 1983
Wisconsin Center, Madison, Wisconsin

CORDILLERAN and ROCKY MOUNTAIN SECTIONS
Combined 1983 Meeting, May 2–4, 1983
Salt Palace, Salt Lake City, Utah

GSA ANNUAL MEETING
October 31—November 3, 1983
Hyatt Hotel, Indianapolis, Indiana

SOUTH-CENTRAL SECTION, March 3–4, 1983
Advance Registration
Advance registration (with check payable to TAMU — South-Central GSA) to:
Malvin C. Schroeder, South-Central GSA
Department of Geology
Texas A&M University
College Station, TX 77843

Advance registration is $35 until February 10, 1983, and includes one luncheon of your choice. After February 10, 1983, registration is $40 and does not include a complimentary luncheon.

Student’s advance registration is $15 and includes a complimentary luncheon. After February 10, 1983, $15 with no luncheon.

Technical Sessions
Eleven symposia have been organized as part of the technical sessions. Titles and convenors are as follows:

a) Pennsylvanian Biostratigraphy: Robert Grayson, Baylor University, Waco, Texas
b) Sediment Sources and Dispersal in the Gulf Coast Basin: Jim Mazzullo, Texas A&M University
c) Deposition of Chalk: Wayne Ahr, Texas A&M University
d) Depositional Systems of the Woodbine Sandstone: R. R. Berg, Texas A&M University
e) NAGT; South-Central Section Geology — Decade of North American Geology: O. T. Hayward, Baylor University
f) Holocene Carbonate Deposition: Richard Rezak, Texas A&M University
g) Mechanical Interpretation in Structural Geology: John Speng, Texas A&M University
h) Urban Fluvial Processes: Mike Wilson, Texas A&M University
i) Geological Licensing Topics Related to High- and Low-Level Nuclear Waste: Norman Tilford, Texas A&M University
j) Engineering Geology of the Cities of the South-Central Section: C. C. Mathewson, Texas A&M University
k) Cenozoic-Mesozoic Boundary: Stefan Gartner, Texas A&M University

Field Trips
Preregistration is required for the field trips. Full payment should be sent to Mel Schroeder by February 7, 1983.


SOUTHEASTERN SECTION, March 16–18, 1983
Registration
Preregistration forms must be received by February 23. Those planning to attend field trips need to preregister by February 1.

Technical Program
General. Technical sessions will be scheduled as oral presentations and poster sessions on Thursday (17th) and Friday (18th).

Thirteen symposia have been organized, but the following are of general interest:

1. Neogene Stratigraphy (Tom Scott).
2. Neotectonics in the Southeast (Dave Prowell).
5. Paleontology of Clastic-Carbonate Transitions (Carl Stock and Patricia Kelley).

Short Course
A five-day short course, an Introduction to Calcareous Nannofossils (Sherwood W. Wise, Jr., instructor, 904-644-5860), will be offered at the Department of Geology, Florida State University, March 12-16, 1983.

Field Trips
Five pre meeting and two post meeting field trips have been scheduled.

(Summarized from GSA News and Information, December, 1982)
CONTINUING EDUCATION PROGRAMS OFFERED IN 1983

Kim W. Ferrall
Exxon, USA

Readers who use this list of schools should keep in mind the following:

1. We encourage potential participants to investigate thoroughly whether a school meets your needs before investing time and money. The HGS does not endorse or promote any school.

2. The list shown here includes only those schools for which fliers were received. Many of these organizations, as well as others, will offer additional schools throughout the year.

Any course with only a convener’s name under it means that no other data was given or that the course was given in 1982 and therefore may be given in 1983.

The convenors addresses are listed on page 18.

GENERAL

Geology for Non-Geologists
AAPG — Los Angeles — $680 — July 26-27

Coal Bearing Sequences
AAPG — Park City — $1080 — June 20-24

Petroleum Exploration (Geology and Geophysics for the nongeologist and nongeophysicist)
IED — New Orleans — $585 — May 3-6
IED — Vail — $685 — July 19-22
IED — Houston — $585 — Oct. 4-7

Introduction to Petroleum Technology for the Nontechnical Professional: Exploration and Production
IHRDC — Boston — $700
IHRDC — London — $700
IHRDC — Houston — $700
IHRDC — Essen — $760
IHRDC — Jakarta

Basic Petroleum Geology for the Non-Geologist
Univ. of Tulsa

Geology for Engineers
OGCI — Houston — $790 — May 16-20
OGCI — Colorado Springs — $790 — Aug. 8-12
OGCI — Denver — $790 — Oct. 31-Nov. 4

Petroleum Geology for Nontechnical Personnel
OGCI — Houston — $630 — Mar. 28-31
OGCI — Denver — $630 — July 19-22
OGCI — Houston — $630 — Nov. 28-Dec. 1

Petroleum Industry Fundamentals
OGCI — Houston — $330 — Mar. 17-18
OGCI — New Orleans — $330 — Apr. 7-8
OGCI — Tulsa — $330 — Apr. 25-26
OGCI — Denver — $330 — May 26-27
OGCI — Houston — $330 — June 2-1
OGCI — Maidhead — $300 — July 11-12
OGCI — Denver — $330 — July 28
OGCI — New Orleans — $330 — Oct. 3-4
OGCI — Houston — $330 — Nov. 7-8
OGCI — Oklahoma City — $330 — Dec. 1-2

Technical Writing for Petroleum Industry Personnel
OGCI — Houston — $625 — Mar. 9-11
OGCI — Denver — $625 — May 23-25
OGCI — Dallas — $625 — Aug. 3-5

Accident Prevention in the Oil and Gas Industry
PTTS

Petroleum Industry Overview
IED — Denver — $350 — Apr. 21-22
IED — Houston — $350 — May 26-27
IED — Denver — $350 — Aug. 16-17
IED — New Orleans — $380 — Sept. 22-23
IED — Houston — $380 — Oct. 6-7
IED — San Antonio — $350 — Nov. 3-4

Exploration (General)
The Geologist as Manager
AAPG — Houston — $680 — Mar. 28-Apr. 1
AAPG — San Francisco — $850 — Nov. 8-11

Prospect Evaluation
AAPG — Houston — $670 — Jan. 31-Feb. 2

Basic Petroleum Exploration
AAPG — Tucson — $920 — Feb. 14-18
AAPG — San Diego — $920 — Sept. 12-16

Exploration Geology
IED — Denver — $765 — June 27-July 1
IED — London — $685 — Aug. 15-19
IED — New Orleans — $765 — Sept. 26-30
IED — Houston — $765 — Nov. 14-18

Introduction to Petroleum Geology
IHRDC — London — $775 — Aug. 8-10
IHRDC — Houston — $715 — Apr. 25-27

Advanced Petroleum Exploration
AAPG — Tucson — $920 — Feb. 21-25

An Introduction to the Gulf Coast Tertiary Geology and Exploration
Robertson Res. — Houston — $475 — Jan. 10-13

Remote Sensing for Geologists and Geophysicists
Geolz/Rowan — Fort Worth — $875 — Mar. 21-25

Petroleum Engineering for Exploration Personnel
IHRDC — London — $775
IHRDC — Calgary — $715
IHRDC — Houston — $715

Techniques of Using Geologic Data
IED — Houston — $685 — Mar. 7-9
IED — Denver — $485 — June 6-8
IED — London — $685 — Aug. 8-11
IED — New Orleans — $465 — Sept. 21-23
IED — Houston — $465 — Oct. 19-21

Petroleum Engineering for Exploration Personnel
IHRDC — Houston — $715 — May 8-11
IHRDC — Calgary — $715 — Sept. 28-29

Geologists
AAPG — Field Seminar — Scotland — $1300 — June 25-July 3

Basic Petroleum Geology
OGCI — Tulsa — $790 — Jan. 31-Feb. 4
OGCI — Dallas — $790 — Mar. 7-11
OGCI — Las Vegas — $6850 — Apr. 11-15
OGCI — Denver — $790 — Apr. 25-29
OGCI — Singapore — $6900 — June 8-10
OGCI — Maidhead — $920 — June 20-24
OGCI — Oklahoma City — $790 — June 11-15
OGCI — Colorado Springs — $950 — Aug. 29-Sept. 2
OGCI — Maidhead — $920 — Sept. 12-16
OGCI — Denver — $790 — Oct. 17-21
OGCI — Houston — $790 — Oct. 31-Nov. 4
OGCI — Calgary — $790 — Nov. 14-18

Kim W. Ferrall, originally from Canton Ohio, received a B.S. and an M.S. in geology from Bowling Green State University in 1972 and 1974 respectively. Kim continued his graduate work in geology at the University of Kansas before joining Exxon in Houston in 1978. His responsibilities at Exxon have included exploration and production geology in both carbonate and clastic provinces of the Texas Gulf Coast. Kim was recently promoted to supervisory geologist and transferred to Exxon’s Tyler office. This is the second year Kim has compiled training courses available to Houston geologists. The editorial staff would like to express our appreciation to Kim for his hard work and cheerful attitude, and to wish him the best of luck in his new position.

Biographical Sketch

Kim W. Ferrall, originally from Canton Ohio, received a B.S. and an M.S. in geology from Bowling Green State University in 1972 and 1974 respectively. Kim continued his graduate work in geology at the University of Kansas before joining Exxon in Houston in 1978. His responsibilities at Exxon have included exploration and production geology in both carbonate and clastic provinces of the Texas Gulf Coast. Kim was recently promoted to supervisory geologist and transferred to Exxon’s Tyler office. This is the second year Kim has compiled training courses available to Houston geologists. The editorial staff would like to express our appreciation to Kim for his hard work and cheerful attitude, and to wish him the best of luck in his new position.
GEOPHYSICS

Stratigraphic Interpretation of Seismic Data
AAGP — Las Vegas — $920 — Mar. 14-18 & 15-19
AAGP — Geneva — $1580 — July 11-15
AAGP — Colorado Springs — $4920 — Nov. 28-Dec. 2 & Nov. 29-Dec. 3

Seismic Interpretation
IED — Houston — $785 — Apr. 25-29
IED — Denver — $785 — Aug. 22-26
IED — New Orleans — $785 — Nov. 7-11

Seismic Exploration for Technical Assistants
Geo Quest — Houston — $775 — Feb. 28-Mar. 4
Geo Quest — Denver — $775 — May 16-20
Geo Quest — Singapore — $6850 — July 11-15
Geo Quest — London — $6850 — Sept. 28-30
Geo Quest — Houston — $775 — Oct. 24-28

Basic Seismic Prospecting
AAGP — Houston — $8850 — Feb. 7-10 & 9-11

Applied Seismic Stratigraphic Interpretation
Geo Quest — Houston — $775 — Feb. 28-Mar. 4
Geo Quest — Singapore — $6850 — Mar. 14-18
Geo Quest — Calgary — $775 — May 9-13
Geo Quest — New Orleans — $775 — June 20-24
Geo Quest — Denver — $775 — Aug. 22-26
Geo Quest — London — $6850 — Sept. 28-30
Geo Quest — Houston — $775 — Dec. 5-9

Seismic Modeling

Modern Seismic Data Processing
Geo Quest

Seismic Resolution
Geo Quest — Houston — $775 — July 6-8
Geo Quest — London — $6850 — Nov. 30-Dec. 2

Applied Geophysics for Geologists
Univ. of Houston — $550 — May 23-27

Wave Equation Migration
Geo Quest — Houston — $775 — July 12-15
Geo Quest — London — $6850 — Dec. 5-8

Introduction to Seismic Interpretation
IHRDC — Houston — $775 — Feb. 7-9
IHRDC — Calgary — $775 — Mar. 14-16
IHRDC — London — $775 — June 20-22
IHRDC — Jakarta — $6775 — Dec. 12-14

Seismic Stratigraphy
IHRDC — Houston — $775 — Feb. 9-11
IHRDC — Calgary — $775 — Mar. 16-18
IHRDC — London — $775 — June 22-24
IHRDC — Jakarta — $6775 — Dec. 14-16

The New Seismic Explorationist & Field, Processing, and Interpretation Methods
IHRDC — Calgary — $775 — May 9-13
IHRDC — London — $6850 — Aug. 1-5

Practical Seismic Interpretation: A Workshop Course
IHRDC — Denver — $6900 — Apr. 18-22
IHRDC — London — $6900 — May 9-13
IHRDC — Essen — $6900 — June 27-July 1
IHRDC — Singapore — $6900 — July 25-29
IHRDC — Houston — $6900 — Sept. 19-23
IHRDC — Calgary — $6900 — Oct. 3-7
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Seismic Data Acquisition for the Practicing Explorationist
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IHRDC — London — $775
IHRDC — Denver — $775

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IHRDC — Denver — $775
IHRDC — London — $775

Fundamentals of Geophysical Interpretation
PTTS

Seismic Methods of Exploration for Oil and Gas
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OGCI — Houston — $790 — Feb. 14-18
OGCI — Calgary — $790 — Feb. 28-Mar. 4
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OGCI — Maidhead — $920 — June 6-10
OGCI — Houston — $790 — July 25-29

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OGCI — Denver — $790 — Feb. 21-25
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OGCI — Colorado Springs — $790 — Aug. 15-19

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OGCI — Calgary — $790 — Aug. 29-Sept. 2
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OGCI — Maidhead — $920 — Oct. 10-14
OGCI — Houston — $790 — Oct. 31-Nov. 4

Seismic Exploration Method — Modern Concepts
OGCI — Tulsa — $790 — Mar. 14-18
OGCI — Maidhead — $920 — May 9-13
OGCI — Colorado Springs — $790 — Aug. 1-5
OGCI — Houston — $790 — Oct. 17-21
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OGCI — Denver — $6525 — June 6-10
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OGCI — Denver — $6525 — Mar. 9-11
OGCI — Denver — $6525 — May 18-20
OGCI — Denver — $6525 — May 23-25
OGCI — Houston — $6525 — Aug. 3-5
OGCI — Maidhead — $6100 — Aug. 10-12

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Geo Quest — Geophysicists
Geo Quest — Houston — $775 — Jan. 31-Feb. 4
Geo Quest — Singapore — $850 — Mar. 21-25
Geo Quest — Denver — $775 — July 11-15
Geo Quest — Houston — $775 — Nov. 14-18
Geo Quest — London — $7850 — Oct. 3-7

Interpretive View of Migration
Geo Quest — Jakarta — $6850 — Jan. 10-13
Geo Quest — London — $850 — Mar. 28-31
Geo Quest — Houston — $775 — June 27-30
Geo Quest — Denver — $775 — Sept. 6-9

Seismic Acquisition
Geo Quest — Houston — $775 — June 6-10

Seismic Data Processing
Geo Quest — Houston — $775 — Apr. 4-8
Geo Quest — Denver — $6775 — June 13-17
Geo Quest — London — $6850 — July 4-8
Geo Quest — Houston — $775 — Oct. 17-21

Seismic Techniques for Engineers
Geo Quest — Houston — $775 — Apr. 25-29

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Geo Quest — London — $6850 — Apr. 11-15
Geo Quest — Calgary — $775 — June 13-17
Geo Quest — Singapore — $6850 — July 11-15
Geo Quest — Denver — $6775 — Sept. 26-30

Techniques of Using Geophysical Data
IED — Houston — $8900 — Apr. 5-8
IED — Denver — $6680 — July 12-15
IED — New Orleans — $6590 — Oct. 25-28
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Production Operations-Unit I

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OGCI - Colorado Springs - $1240 - Apr. 18-28
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OGCI - Maidenhead - #1485 - May 23-June 3
OGCI - Tulsa - $1240 - June 6-17
OGCI - Maidenhead - #1485 - June 27-July 8
OGCI - Denver - $1240 - July 25-Aug. 5
OGCI - Tulsa - $1240 - Aug. 22-Sept. 2
OGCI - Houston - $1240 - Sept. 12-23
OGCI - Calgary - $1240 - Oct. 17-28
OGCI - Tia Juana - $1590 - Oct. 17-28
OGCI - Maidenhead - #1485 - Nov. 7-18
OGCI - Tulsa - $1240 - Nov. 28-Dec. 9

Basic Surface Production Operations
OGCI - Tulsa - $790 - Mar. 28-Apr. 1
OGCI - Calgary - $790 - May 2-6
OGCI - Maidenhead - $920 - June 27-July 1
OGCI - Denver - $790 - July 18-22
OGCI - Tia Juana - $1020 - Nov. 28-Dec. 2

Surface Facilities-Equipment and Design
OGCI - Houston - $790 - June 6-10
OGCI - Tulsa - $790 - Aug. 15-19

Gas Production Operations
OGCI - Denver - $790 - May 9-13
OGCI - Calgary - $790 - May 23-27
OGCI - Maidenhead - $920 - Sept. 12-16
OGCI - Houston - $790 - Sept. 28-30

Sand Control
OGCI - Tia Juana - $1020 - Nov. 28-Dec. 2

Basic Well Operations
OGCI - Tulsa - $790 - Feb. 14-18
OGCI - Denver - $790 - Apr. 4-8
OGCI - Midland - $790 - May 9-13
OGCI - Maidenhead - $920 - June 20-24
OGCI - Oklahoma City - $790 - Aug. 15-19
OGCI - Calgary - $790 - Aug. 22-28
OGCI - Odessa - $790 - Oct. 31-Nov. 4
OGCI - Lafayette - $790 - Nov. 14-18

Corrosion Control-Unit I
OGCI - Odessa - #525 - Apr. 11-13
OGCI - Maidenhead - #510 - May 16-18
OGCI - Calgary - #525 - July 25-27
OGCI - Denver - #525 - Oct. 17-19

Oilfield Water Technology-Unit II
OGCI - Odessa - #330 - Apr. 14-15
OGCI - Maidenhead - #390 - May 19-20
OGCI - Calgary - #330 - July 28-29
OGCI - Denver - #330 - Oct. 20-21

Petroleum Production Engineering
IHRC - Calgary - $675
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Drilling Operations
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ENHANCED OIL RECOVERY

Applied Reservoir Engineering, Reserves Estimates, and Enhanced Oil Recovery
George Washington Univ.

Introduction to Enhanced Oil Recovery
IHRC - Dallas - $625
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OGCI - Calgary - $970 - Nov. 7-11

Enhanced Oil Recovery Techniques

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IED - Vail - $585 - July 25-28
IED - Houston - $585 - Oct. 10-13

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OGCI - Houston - $790 - Oct. 31-Nov. 4

Hydraulic Fracturing
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OGCI - Denver - $790 - June 27-July 1
OGCI - Calgary - $790 - Aug. 29-Sept. 2
OGCI - Denver - $790 - Sept. 26-30
OGCI - Bakersfield - $790 - Oct. 17-21

Modern Well Completion Practices for the Non-Engineer
Univ. of Tulsa

Applied Reservoir Engineering, Reserves and Production Estimates, Well Testing
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PTTS

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OGCI - Singapore - $775 - July 19-22
OGCI - Calgary - $630 - Oct. 3-6
OGCI - Houston - $630 - Nov. 7-10
BUSINESS AND MANAGEMENT

Fundamentals of Gas Contracts
IED — Houston — 4400 — Apr. 13-15

Introduction to Management and Supervision for the Technical Professional
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IHRC — Singapore — 7750

Management of Oil and Gas Exploration Risk
Wharton

Exploration and Management, Risk and Prospect Evaluation
OGCI — Houston — 4790 — Mar. 7-11
OGCI — Denver — 4790 — May 2-6
OGCI — Maidenhead — 9920 — July 18-22
OGCI — Singapore — 9920 — Sept. 12-16
OGCI — Colorado Springs — 9790 — Oct. 10-14

Motivation of Oil and Gas Engineers and Explorationists
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OGCI — Houston — 6380 — Sept. 21-23
OGCI — Denver — 6380 — Nov. 2-4

Supervisory Techniques for Oil and Gas Personnel
APTS

The Business Side of Oil and Gas
AAPG — St. Simon’s Island, GA. — 660 — Jan. 17-19
AAPG — Denver — 660 — Sept. 7-9

Principles of Oilfield Economics
APTS

Economic Analysis of Petroleum Ventures
IED — Dallas — 625 — Mar. 14-17
IED — San Antonio — 625 — May 24-27
IED — Vail — 625 — Aug. 23-26

Economic Analysis and Capital Budgeting
APTS

Primer for Oil Investors
Univ. of Tulsa

Basics of Structuring Exploration Deals
IED — Houston — 5855 — June 27-29
IED — Denver — 5855 — Sept. 12-14

Decision Analysis for Petroleum Exploration
George Washington Univ. — Unknown

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Louisiana Mineral Law
IED — New Orleans — 6345 — Mar. 24-25

Oklahoma Law of Oil and Gas
IED — Oklahoma City — 6345 — Mar. 17-18

Texas Law of Oil and Gas
IED — Dallas — 6345 — Aug. 4-5

New Mexico Petroleum Land Practice
IED — Albuquerque — 6345 — Nov. 4-5

North Dakota Oil and Gas Law and Land Practices
IED — Bismarck — 6345 — June 23-24

Basic Oil and Gas Taxation
IED — Denver — 6345 — Sept. 8-9

Advanced Oil and Gas Taxation
IED — Houston — 6345 — Sept. 29-30

Oil and Gas Accounting
IED — Dallas — 6645 — June 6-10
IED — Denver — 6645 — Aug. 1-5
IED — Houston — 6645 — Nov. 14-18

Advanced Oil and Gas Accounting
IED — Houston — 6345 — Aug. 18-19
IED — Denver — 6345 — Sept. 22-23

Oil and Gas Accounting for the Non-Financial Executive
IED — Houston — 6345 — May 5-6

Financing Oil and Gas Deals
IED — Houston — 6775 — Aug. 15-17

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IED — Dallas — 6375 — June 23-24

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Building Team Effectiveness
IED — Vail — 9255 — Aug. 24-26

Stress Management
IED — Vail — 9385 — Aug. 22-23

LAND MANAGEMENT

Land Support Personnel
IED — Denver — 6495 — May 2-6
IED — Houston — 6495 — Oct. 31-Nov. 4

Basic Land Management
IED — Dallas — 6645 — Sept. 12-16

Advanced Land Management
IED — Dallas — 6645 — Oct. 3-7

Petroleum Land Practices
IED — Houston — 6645 — Mar. 14-18
IED — Denver — 6645 — Aug. 8-12

Petroleum Land Titles
IED — Dallas — 6645 — Jan. 31-Feb. 4
IED — Denver — 6645 — July 25-29

Curing Land Titles
IED — Houston — 6345 — Mar. 10-11

Contracts Used in Oil and Gas Operations
IED — Denver — 6645 — Mar. 7-11

Contracts Used in Oil and Gas Operations
IED — Houston — 6645 — Oct. 24-28

Advanced Contracts
IED — Denver — 6550 — Apr. 19-22
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Delay Rentes and Lease Administration
IED — Dallas — 6440 — Aug. 24-26

Royalties and Division Orders
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IED — Houston — 6440 — Nov. 2-4

Farmout and Joint Operating Agreements
IED — Houston — 6350 — June 30-July 1
IED — Denver — 6350 — Sept. 15-18

How to Protect the Landowner in Oil and Gas Transactions
Southern Methodist Univ.

Pooling and Utilization in Texas
IED — Dallas — 6345 — June 18-27

Fundamentals of Negotiation for the Explorationist
IED — Dallas — 6345 — Sept. 8-9

Basic Principles of the Oil and Gas Lease
IED — Houston — 6645 — Jan. 24-28
IED — Denver — Sept. 26-30

Federal and State Regulation of Oil and Gas Exploration
IED — Monterey — 6385 — Apr. 21-22
IED — Houston — 6385 — Sept. 8-9

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IED — Tulsa — 6345 — June 9-10

Pooling and Utilization in the Rocky Mountain Area
IED — Denver — 6345 — July 14-15
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(918) 743-9765

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University of Houston
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University of Houston
Houston, TX 77004
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The Bulletin is published monthly except July and August. Subscription price for nonmembers within the contiguous U.S. is $15 per year and $30 per year for those outside the contiguous U.S. Members outside the contiguous U.S. will be billed additionally for air mail service. Single copy price is $2.00. Claims for nonreceipt in the contiguous U.S. should be made within two months of the date of issue; claims from elsewhere within four months.

Communication about manuscripts and editorial matters should be directed to the Editor. Inquiries concerning advertising rates should be directed to the advertising Chairman. Applications for membership in the Houston Geological Society may be obtained from the Society office, 6916 Ashcroft, Houston, Texas 77081.

COVER PHOTO

This month's cover photo shows an early drilling crew near Humble, Texas, September, 1930. The photo is courtesy of the Bank of the Southwest, Frank J. Schleuter Collection, Houston, Metropolitan Research Center, Houston Public Library.

NEW ACTIVE MEMBERS

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<tr>
<th>Name</th>
<th>Occupation</th>
<th>Company/Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahmad, Hamed M.</td>
<td>Geophysicist</td>
<td>Phillips Petroleum Co.</td>
</tr>
<tr>
<td>Berrett, Wayne S.</td>
<td>Geophysicist</td>
<td>Gulf Oil Co.</td>
</tr>
<tr>
<td>Bunch, Robert C.</td>
<td>Geophysicist</td>
<td>Shell Oil Co.</td>
</tr>
<tr>
<td>Calmer, Steven H.</td>
<td>Division Engineer</td>
<td>The Analysts</td>
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<tr>
<td>Campbell, Harry M.</td>
<td>Manager</td>
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<td>Donofrio, Chris J.</td>
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<td>Edmonds, Dennis M.</td>
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</tr>
<tr>
<td>Gerety, Edward J.</td>
<td>Geologist</td>
<td>Mitchell Energy Corp.</td>
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<tr>
<td>Hartz, Douglas E.</td>
<td>Geophysicist</td>
<td>Phillips Petroleum Co.</td>
</tr>
<tr>
<td>Hart, Douglass E.</td>
<td>Geophysicist</td>
<td>Phillips Petroleum Co.</td>
</tr>
<tr>
<td>Hayes, Christopher J.</td>
<td>Geologist</td>
<td>Exxon Production Research Co. P.O. Box 2189, Houston, TX 77001, Ph. (713) 556-2000.</td>
</tr>
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<td>True Oil Co.</td>
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<tr>
<td>Hurta, Roy T.</td>
<td>Exploration Director</td>
<td>Marathon Oil Co.</td>
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<tr>
<td>John, Chako</td>
<td>Geologist</td>
<td>True Oil Co.</td>
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<td>Kerekgyarto, William L.</td>
<td>Advanced Geologist</td>
<td>Marathon Petroleum Co.</td>
</tr>
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<td>Kerrigan, Thomas H.</td>
<td>Geologist</td>
<td>Pennzoil</td>
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<tr>
<td>Kinney, John</td>
<td>Exploration Director</td>
<td>Denison Oil Corp.</td>
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<td>Kenealy, William L.</td>
<td>Research Specialist</td>
<td>Exxon Exploration Research Co. P.O. Box 2198, Houston, TX 77001, Ph. (713) 556-2000.</td>
</tr>
<tr>
<td>Lozier, Richard W.</td>
<td>Geologist</td>
<td>True Oil Co.</td>
</tr>
<tr>
<td>McCormac, John W.</td>
<td>Exploration Director</td>
<td>Marathon Oil Co.</td>
</tr>
<tr>
<td>Mann, Robert H.</td>
<td>Exploration Manager</td>
<td>Superior Oil Co.</td>
</tr>
<tr>
<td>Malloy, Robert J.</td>
<td>Exploration Director</td>
<td>Superior Oil Co.</td>
</tr>
<tr>
<td>Mott, Walter S.</td>
<td>Geologist</td>
<td>Phillips Petroleum Co.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
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<td>370-2241</td>
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<td>James W. Roach</td>
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<td>1212 Main St.</td>
<td>(713) 894-0608</td>
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<tr>
<td>B. C. St. Martin, Jr.</td>
<td>Petroleum Engineer</td>
<td>1008 Main Street</td>
<td>(713) 894-0608</td>
</tr>
<tr>
<td>John Ruggles &amp; Co.</td>
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1200% CDP DYNAMITE
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Ford, Meade and Clark Counties

215 miles high resolution 2400% CDP data in first phase
- 96 channel Geosource MDS-10 instrumentation
- 2 ms SR, 110-foot groups, 24 geophones per group
- Failing Model Y1100 vibrators

Stratigraphic processing at 2 ms SR for structural, flattened horizon and migrated sections.

Data acquisition by GeoQuest Exploration, Inc. • Data processing by GeoQuest International, Inc.

For information on South Texas, contact Chuck Andrews.
For information on Kansas, contact Chuck Andrews, Joe Turner or Marvin Taylor.
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