15th Annual Permian Basin Oil Edition

COLLEGIATE FOOTBALL WRAPUP

Houston 33	Rice 21	Cooper.....24	Michigan St. 24	Oklahoma St 24
Texas A&M ..0	TCU 14	Odessa 0	Michigan ...15	Colorado....20
Texas.....26	SMU.....28	Oklahoma ..17	Texas Tech .36	Angelo St ...33
North Texas 16	Baylor.....21	Kansas 16	New Mexico 23	ACU.....8

The Midland Reporter-Telegram

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SUNDAY, OCTOBER 15, 1978
190 PAGES, 17 SECTIONS

Campaign donations favor Bush

If voting in the 19th Congressional District depended upon who brought in the most money, there would be no doubt as to who is ahead.

George W. Bush of Midland, the Republicans' choice, has collected $207,558.73 in the period between July 1 and Sept. 30.

His Democratic opponent, Kent Hance of Lubbock, has pulled in only about a third of that, with $74,822.08 in the same period.

Reports on the contributions and expenditures of both candidates were filed last week with the Federal Election Committee.

Bush outspent Hance during the reporting period, $179,766.34 to $36,095.27.

Even comparing total contributions and spending since each of their campaigns began, Bush has outdone Hance in both respects. The Midlander has collected $347,269.42. Hance has brought in $231,809.41.

Bush's total expenditures have mounted to $309,892.58 while Hance's only to $168,709.41.

The differences between the two campaigns is evident not only in the amount of money received and spent, but also in the size of their reports. Bush's is almost an inch thick, has 181 pages and lists about 1,200 contributors.

The Lubbock attorney's report has only 35 pages and approximately 133 contributors.

Hance, though, started out in this reporting period with more cash on hand compared to Bush — $24,372.82 to $9,584.45.

The 35-year-old Democrat still has $63,099.63 in the bank, probably enough to finish out the campaign which ends Nov. 7. He has no debts

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Inside your R-T

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LIFESTYLE: Permian Basin residents find paradise in Hawaii 1G

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Weather

Fair through Monday. A little warmer this afternoon. Details on Page 6A.

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Big Spring sophomore Dirk Davis put his all into a 38th-place finish in the Midland Invitational Cross Country Meet. Assiting the collapsed youth are teammate Mark Mathews and bus driver David Tipping. 76 area runners competed on the two-mile Midland College course. (Staff Photo by Mike Kardos)

Energy plan passes 60-17

By DONALD M. ROTHBERG

WASHINGTON (AP) — The 95th Congress regained its momentum toward adjournment early Sunday when opponents of President Carter's energy plan gave up their Senate filibuster and permitted the program to move toward final congressional action.

The Senate immediately approved the tax portions of the energy package by a margin of 60-17 and sent it to the House where approval seemed imminent.

Meanwhile, Senate and House conferees were trying to complete work on a massive tax cut bill and tailor it to fit the guidelines President Carter has set as conditions for his approval.

The impasse on energy ended shortly after midnight Saturday when Sen. James Abourezk took the floor and said his filibuster, which had delayed action on the bill for more than 15 hours, was ending.

"If it's not going to work, there's no reason to continue," said the South Dakota Democrat. Abourezk conceded that congressional leaders held the votes that would enable them to prevail eventually.

The senator went on to describe the energy package as "extremely bad, noxious legislation," and added that, "I don't regret having made this effort ... I don't regret having tried to represent my constituency."

On taxes, the Senate-House conferees agreed on a reduction in capital gains levies and a once-in-a-lifetime break for persons over 55 who sell their homes. The provisions seemed to be within limits acceptable to Carter.

The conferees voted to reduce the maximum tax rate on capital gains from 49.1 percent to 28 percent. The homeowner provision would exempt from taxation up to $100,000 in profit from the sale of a principal home by a person 55 or older.

The massive, election-year tax cut bill is likely to be the final order of business before the 95th Congress adjourns for good. The conference committee was working on the measure under threat of a presidential veto if they fail to come up with a bill that meets Carter's guidelines.

The Senate also passed and sent to the House an administration-backed bill to cut back on federal regulation of airline fares and routes.

The House voted 231-157 to exempt Tellico Dam in Tennessee from the provisions of the Endangered Species Act. Construction of the dam was halted because it threatened to wipe out the habitat of the snail darter, a three-inch fish on the endangered list. Whether the exemption would clear the Senate was uncertain.

Senate Majority Leader Robert C. Byrd, D-W.Va., told reporters Saturday morning that, "I expect to finish tonight depending on the tax bill."

Asked if he thought a veto could be avoided, Byrd replied: "I don't know. I have not discussed this with the president."

Midland Chamber to honor Mahon

Congressman and Mrs. George Mahon will be the honorees on Nov. 11 as Midland and Midlanders observe "George and Helen Mahon Day" in the Tall City.

The veteran congressman who has represented the 19th Congressional District since it was created 44 years ago, is retiring from office at the end of this year.

The Midland Chamber of Commerce is sponsoring the celebration in appreciation of the many and varied services he has performed for Midland and Midlanders and for his cooperation and assistance in many projects and programs through the years.

Harrell Feldt, president of the Chamber of Commerce, has announced the appointment of W. H. "Bill" Collyns, Reporter-Telegram editor, as chairman of the event.

Highlight of the observance will be a barbecue luncheon and an informal program scheduled from 11:30 a.m. to 2 p.m. in the new Chaparral Center at Midland College. The function is open to the public.

Winston Barclay, chairman of the attendance committee, said that tickets, priced at $1 each, will go on sale later this week.

W. J. Mewhorter is chairman of the finance committee, which includes Tony Martin, Wilbur Yeager, Robert Pendleton, Boley Embrey, Spencer Blocker, Ray Moudy and T. L. "Ike" Cauthen.

Others serving with Collyns on the general committee include Martin Allday, Ernest Angelo Jr., William Blakemore, Steve Davidson, Thornton Hardie Jr., Reagan Legg, Charles Priddy and Charles Marsh.

The chairman said that others will be named to special committees within the next several days.

"George Mahon has done so much for Midland in so many ways over a long period of years that we want to recognize him and Mrs. Mahon in a special way," Feldt said. "And this is the kind of event that the congressman has said he likes best."

"We want to make this the best and most meaningful event of its kind ever held here," Feldt continued. "It is hoped that an exceptionally large crowd of Midlanders will attend the function to express the sincere appreciation we have for George and Helen Mahon."

Party label 'not important'

By LINDA HILL
R-T Staff Writer

In spite of what the title "county judge" might indicate, the office holder does much more than hear cases.

Republican Bill Ahders and Democratic incumbent Blake Hansen will face each other on the Nov. 7 ballot for the right to be the chief administrative officer of the county, as well as to serve as judge of the county court.

County commissioners, in a politically controversial move, appointed Hansen to the job in March. He replaced Barbara Culver when she resigned the post to accept judgeship of the 318th District Court.

Local Republicans had urged the court to appoint a non-candidate to the job.

With the election little more than three weeks away, both candidates are expressing optimism about their chances to be elected.

Hansen, now 29 years old, came to the job after brief stints as assistant district attorney, assistant county attorney and lawyer in a private firm.

Ahders is municipal judge for the city of Midland, a job he took in 1968 after retiring from the FBI after 26 years.

Educationally, their backgrounds are similar. Both have bachelors degrees in business and law degrees.

The county judge's job is two-fold — administrative and judicial. He serves as presiding officer of the Commissioner's Court and generally is chief administrator of the county's business.

Also, under the Texas Constitution, he serves as judge of the county court, hearing misdemeanor criminal cases and civil cases involving $1,000 or less, in addition to handling probate and mental competency hearings.

The latter portion of the job has become less critical in Midland County with creation of the county court at law, which has jurisdiction over all those matters, plus civil cases involving up to $5,000.

"Quite a bit more than 50 percent of my job is administrative," Hansen said in a recent interview.

Ahders declined to put a percentage on the amount of time he would expect to spend on the two areas of responsibility. "I would be very much interested in spending a great deal of my time in the judicial because I do enjoy administering justice," he said.

Both candidates downgrade the importance of party labels at the

election 78

county level, and both agree that any judicial position should be non-political.

Discussing qualifications, Ahders emphasizes his legal background.

But, he said, the most important qualification is "the ability to get along with people, to have harmony on the Commissioners Court."

Hansen contends his legal and business education is "current and up-to-date." He also emphasizes his tenure in county positions. "I've worked here. I know the people in the county courthouse...We've solved problems together," said Hansen.

Traditionally, the Midland County judge votes only in case of a tie and

(Continued on Page 6A)

Midlanders to face nearly $4 million more taxes

Midlanders will be paying almost $22 million in property taxes this year.

This is almost $4 million more than they paid last year, according to figures compiled in the city tax assessor-collector's office.

Expected in tax money this year is $21,967,612. Last year taxes totaled $17,979,563.

The larger amount, though, is not entirely from increased tax rates. A large part of the increased amount of revenue comes with the addition of the hospital district to the taxing groups.

Whereas last year there were three taxing bodies, there now are four — city of Midland, Midland Junior College District, Midland Independent School District and the Midland County Hospital District.

Residents should be pulling their tax statements out of their mailbox any day now, as they were mailed at the end of last week, according to Virgil Jones Jr., city tax assessor-collector.

This mailing is slightly later than in the past, he said, because new tax statements had to be printed to comply with a 1978 state law. The Public School Finance Bill provides that all school districts have to comply in listing necessary information on the tax statement.

Jones said the statements will list a resident's 100 percent valution of his property, the 75 percent assessed valuation to which the tax rate applies, last year's tax rates and tax payment and this year's tax rates and payment.

While this is required only for the school district, Jones said Midland provides the information on all four taxing bodies — school, city, college and hospital.

"We feel it's good public relations to let the people know everything about their taxes in all the districts instead of just one," Jones said.

For those who do not want to pay it all at once, Jones said, the deadline for paying half is Nov. 30. They must pay the remaining half by June 30, 1979. Deadline for those who pay the full amount will be Jan. 31.

The tax rolls are scheduled to be approved at the four boards' next regular meetings, according to Jones.

Total tax rate for the four districts this year is $2.20. Last year it was $2.04.

The city dropped its tax rate by two cents, from 65 cents last year to 63 this year. Midland College kept its rate the same - 22 cents.

But Midland Independent School District raised its by three cents, from $1.17 last year to $1.20. The hospital district is 15 cents this year.

Taxable assessed valuation of property last year for the city was $698,561,910, which brought in $4,540,751.68 in tax money. This year, the taxable assessed valuation is $742,867,980 which will bring $4,692,036.02 in tax money.

Although the tax rate is down this year and revenue up, Jones explained there has been an increase of taxable property in Midland because of its rapid growth.

Both Midland College and the school district have a taxable assessed valuation of $1,092,487,390. Last year it was $966,789,600.

Tax money will be bringing in a little more to the college, with an expected $2,408,164.67. Last year the college received $2,127,003.67.

The school district should receive $13,135,436.76 in tax money this year, compared to last year's $11,311,807.39.

The hospital district has an assessed taxable valuation of $1,152,412,070 to bring $1,731,974.71 in taxes.

Two exemptions have been taken into account on these tax rolls, Jones said, and those are homestead and disabled veterans.

The homestead exemption is for all persons at least 65 years of age. It allows $6,000 to be taken off the assessed value of the resident's homestead before taxes are figured, according to Jones.

Considering the four taxing districts, there are 2,335 persons using this exemption.

A bill passed by the Texas Legislature allows for property tax exemptions for veterans with service-connected disabilities and their surviving spouses. The exemptions apply to taxes levied by the state, county, city, town, school district, special district or other political subdivison of the state.

It is a mandatory tax and applies to all taxing entities in Texas.

Amount of the exemption is based upon the amount of disability.

There are 311 veterans in the county included in this exemption, Jones said.

If Joe Citizen does not qualify for any tax exemptions and owns a house rated as $50,000 on market value, Jones figures the resident would pay $825 in taxes this year.

The tax rate of $2.20 would be applied to the 75 percent valuation of the home, which would be 437,500, he said.

But if Joe Citizen lives outside the city limits in his $50,000 home, he would have to pay only $588.75. The city tax rate would not apply to him.

All city property will be revaluated for next year's tax rolls, Jones said. The city's Board of Equalization recommended last summer the revaluation be done every two years instead of five, as in the past.

By doing the revaluation, Jones said he feels city property will be brought up to a fair market value, something which he said has not been happening lately with the inflationary costs of housing.

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Klansmen praise nuclear power at Seabrook

SEABROOK, N.H. (AP) — Two robed Ku Klux Klansmen, who received support from a group of motorcycle gang members, praised nuclear power on Saturday near the controversial Seabrook nuclear power plant construction site.

William Wilkinson, imperial wizard of the Invisible Empire of the Knights of the Ku Klux Klan, told about 25 reporters and photographers that he backed construction of the Seabrook plant and nuclear power in general because he did not want to rely on Arab oil.

Wilkinson, whose white robes were soaked by rain, also said Saturday that he and other klansmen were in New Hampshire to recruit new Klan members.

"We are recruiting man-to-man, and we are getting members at a terrific pace," he said. However, he refused to reveal how many had joined the Klan, saying it was against Klan policy.

As Wilkinson spoke outside the plant's main gate, about 25 members of two motorcycle gangs — the Vigilantes from Worcester, Mass., and the Iron Horsemen from Portsmouth and Portland, Maine — waved posters which said "The Klan wants you."

A few curious Seabrook residents, about 12 members of a anti-busing group from South Boston and a handful of Seabrook construction workers also gathered around Wilkinson and Mississippi Grand Dragon Douglas Coen.

State troopers in marked and unmarked cars patrolled the area. The rally was peaceful except for an exchange of shouts.

SCHOOL MENUS

MIDLAND ELEMENTARY

Monday — Breakfast: Orange juice, Sugar Frosted Flakes, milk. Lunch: Hot dog, mustard and chili, french fried potatoes with catsup, cole slaw, ice cream, milk.

Tuesday — Breakfast: Chilled applesauce, cinnamon toast, milk. Lunch: Baked turkey, dressing and gravy, green beans, cranberry gelatin, doughnut, milk.

Wednesday — Breakfast: Orange juice, doughnut, milk. Lunch: Hamburger on bun, mustard or salad dressing, french fried potatoes with catsup, hamburger salad, apple cobbler, milk.

Thursday — Breakfast: Chilled pear, waffle with syrup, milk. Lunch: Beef taco, taco sauce, chili beans, lettuce tomato salad, cornbread with butter, lemon fried pies, milk.

Friday — Breakfast: Stewed prunes, grilled peanut butter sandwich, milk. Lunch: Chicken fried steak, mashed potatoes with gravy, tossed salad, wheat rolls with butter, strawberry gelatin, milk.

MIDLAND SECONDARY

Monday — Breakfast: Orange juice, Sugar Frosted Flakes, milk. Lunch: Hot dog, chicken pot pie, french fried potatoes, whole kernel corn, green salad, cole slaw, chocolate cream pie, ice cream.

Tuesday — Breakfast: Chilled applesauce, cinnamon toast, milk. Lunch: Baked turkey, barbecue on bun, dressing with gravy, green beans, cranberry gelatin, tossed salad, doughnut, ice cream.

Wednesday — Breakfast: Orange juice, doughnut, milk. Lunch: Hamburger on bun, sausage pizza, french fried potatoes, chilled pears, hamburger salad, green salad, apple cobbler, ice cream.

Thursday — Breakfast: Chilled pear, waffle with syrup, milk. Lunch: Beef taco, tuna salad sandwich, chili beans, cottage cheese, pineapple tidbits, lettuce tomato salad, lemon fried pies, ice cream.

Friday — Breakfast: Stewed prunes, grilled peanut butter sandwich, milk. Lunch: Chicken fried steak, submarine sandwich, mashed potatoes with gravy, fried onion stix, chilled fruit, tossed salad, cinnamon cookie, ice cream.

GREENWOOD SCHOOL

Monday — Chicken fried steak, green beans, cream potatoes with gravy, hot rolls, apple, milk.

Tuesday — Burritos with chili, corn, tossed salad, butter cake, milk.

Wednesday — Pork chops, fried potatoes, applesauce, hot rolls, lemon pie, milk.

Thursday — Fish, English peas, garden fresh salad, hot rolls, peanut butter bars, milk.

Friday — Hamburgers, french fries, hamburger salad, gelatin, milk.

TRINITY SCHOOL

Monday — Fish and fries, chicken noodle soup.

Tuesday — Pizza, tomato soup.

Wednesday — Hamburgers, chips, minestrone soup.

Thursday — Beefaroni, buttered roll, bean soup.

Friday — Hot dogs, chips, vegetable soup.

Available daily — Peanut butter and honey sandwiches, tuna salad sandwiches, pimento cheese sandwiches, bologna sandwiches, tossed salad, milk and ice cream.

MIDLAND CHRISTIAN SCHOOL

Monday — Pizza, whole kernel corn, garden salad, sprinkle cake.

Tuesday — Fish, tartar sauce, macaroni and cheese, green peas, lemon cake, hot rolls.

Wednesday — Beef stew, garden salad, corn bread, gelatin.

Thursday — Chicken fried steak with gravy, mashed potatos, blackeyed peas, cake.

Friday — Hot dogs with chili, baked beans, potato chips, apple crisp.

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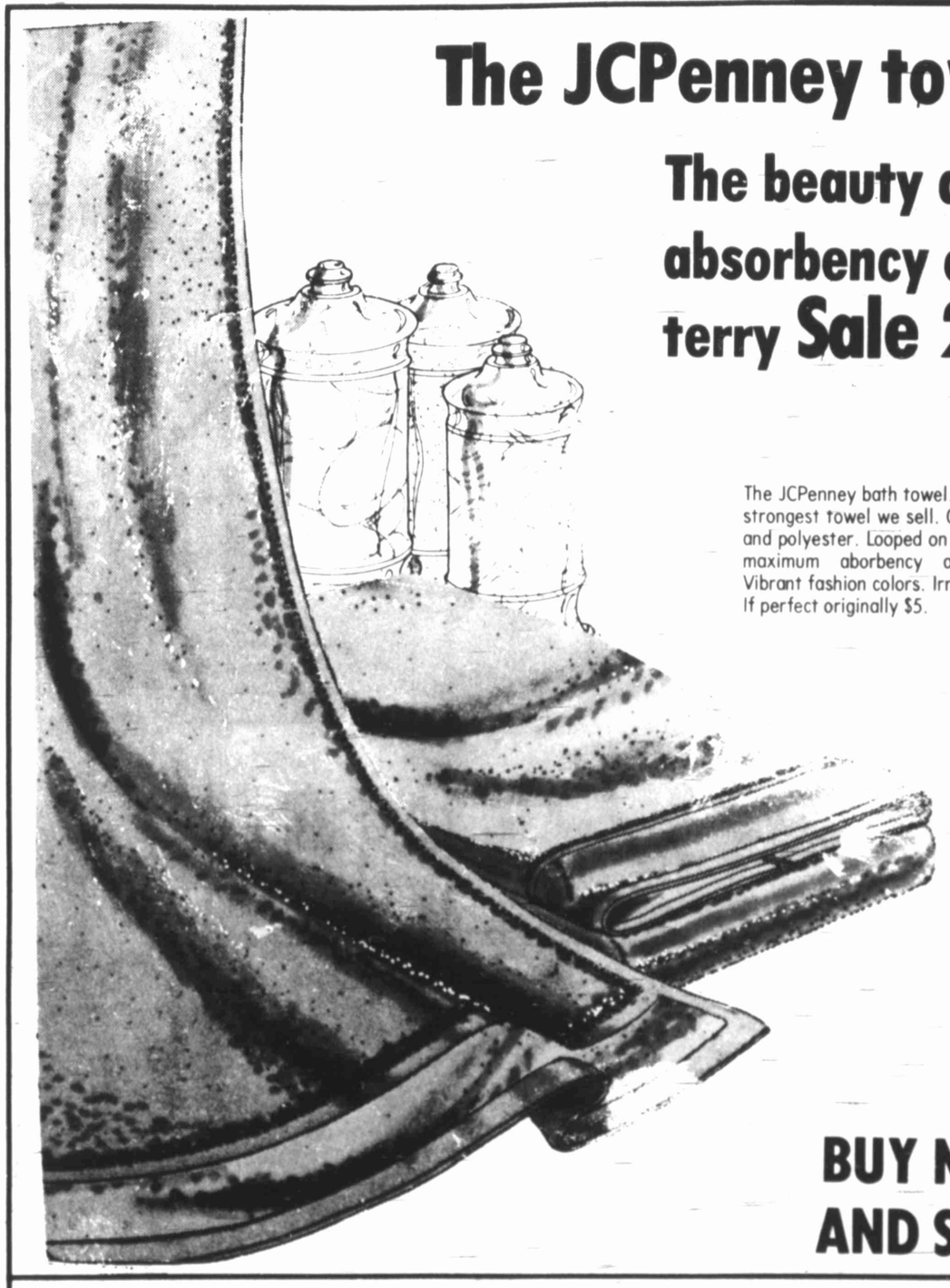

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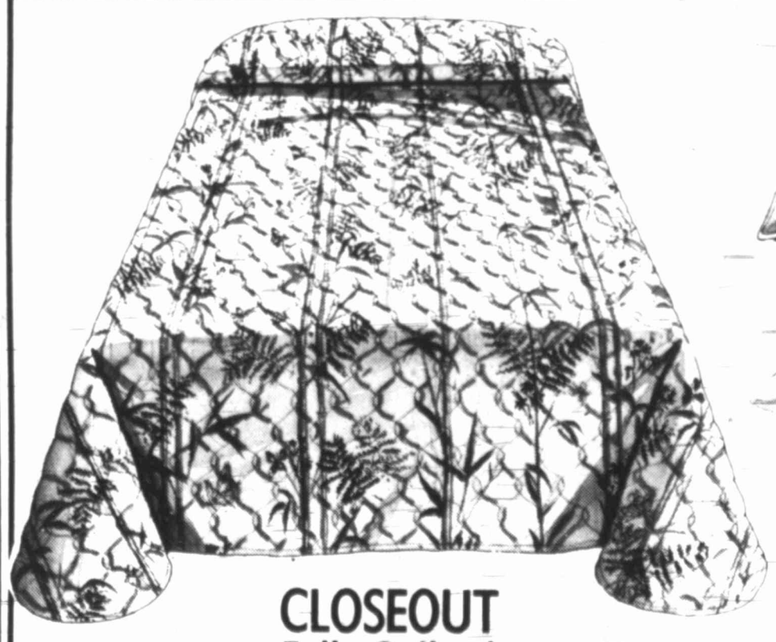

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DOWNTOWN & SUBURBAN

DEATHS

Ray B. Adams

BIG SPRING — Services for Ray B. Adams, 61, of Ackerly, were Saturday in Nalley-Pickle Funeral Home with the Rev. Jim Mosley, pastor of the First Baptist Church in Ackerly, officiating.

Burial was in Trinity Memorial Park in Big Spring.

Adams died Friday in a Lubbock hospital after an illness.

He was born in Howard County and had lived in Ackerly all his life. He was married to Marie Clayton Johnson June 26, 1975, in Hico.

The farmer was a member of the First Baptist Church at Ackerly, the Elks and Eagles Lodges and Future Farmers of America. He helped organize the Northside Youth Center here and received the Outstanding Farmer Award from the Soil Conservation District about 20 years ago.

Survivors include his wife; a son, Bryan Adams of Austin; a daughter, Sandra Talkington of Arlington; a brother, Harvey Adams of Knott; two stepdaughters, Amy Higgins and Janelle Land, both of Odessa, three grandchildren and eight great-grandchildren.

The family suggests memorials be made to the American Cancer Society or a favorite charity.

'Gene' McCollum

PORT NECHES — Eugene "Gene" McCollum, 65, of Port Neches, formerly of Midland, died in a Port Neches hospital after a long illness.

Services will be at 10 a.m. Monday in First Baptist Church of Port Neches with burial in Port Neches.

McCollum was coach at Midland High School from 1942 through 1945. From Midland, he moved to Port Neches, where he coached three state championship teams before becoming superintendent of schools. He retired last year.

Survivors include a son, Gene Owen McCollum of Houston; a daughter, Mrs. Terry N. (Tam) McGuire of Port Neches, several brothers and sisters and three grandchildren.

Sonia Ellison

Services for Sonia Ellison, 41, of Gilmer and formerly of Midland will be at 10 a.m. Monday in Bethel Baptist Church with Dr. Roy Day officiating. Burial will be in Resthaven Memorial Park directed by Newnie W. Ellis Funeral Home.

Mrs. Ellison died Friday in a Gilmer hospital after a month-long illness.

She was born Oct. 6, 1937, in Rector, Ark. She lived in Detroit, Mich., eight years before moving to Grand Prairie. She moved to Midland in 1949 and moved from here to Gilmer five months ago.

She was married to John M. Ellison March 2, 1950, in Big Spring. She had worked as a nurse in Midland Memorial Hospital several years.

She was a member of Bethel Baptist Church and the VFW Auxiliary.

Survivors include her husband; a son, the Rev. Robert John Ellison of Gilmer; three daughters, Shirly Doty and Becky Seay, both of Midland, and Kathy Copeland of Gilmer; her mother, Pauline Branson of Midland; a brother, John Branson of Spain; a daughter-in-law, Carol Ellison, and six grandchildren.

Food prices to increase

WASHINGTON (AP) — American shoppers' food prices probably will rise at least 6 percent next year and could soar as much as 11 percent if farmers get bad weather, says the Agriculture Department's senior economist.

Howard W. Hjort, the department's director of economics, said "price inflation in the general economy alone implies a 4 to 5-plus percent increase in food prices for 1979."

Private schools upset with new IRS rules

By SUSAN TOTH
R-T Staff Writer

Some Midland private school operators in Midland are upset by what they see as an attempt by the federal government to take over their schools.

A set of proposed Internal Revenue Service procedures would revoke the tax-exempt status of any private schools which does not meet strict standards on minority enrollment and recruitment.

Some Midland operators see the matter as a question of the separation of church and state and the right of private individuals to have the kind of education they want for their children.

They are also upset by what one operator termed "the asinine assumption that all Christian schools have been started for segregation purposes," which he believes is implied in the regulations.

The regulations state that any school which was founded or substantially expanded during the time of desegration in the community and which does not have a significant number of minority students enrolled is subject to the loss of status.

Oaklawn School, because it opened in 1976 and has little minority enrollment, might be the most effected of Midland's five private schools.

"The whole thing is a matter of control," said Oaklawn's director, the Rev. David Pearcy.

"I don't think the government has any business in private schools at all. We don't discriminate in our admissions, but out students are screened individually to make sure they will fit in with our environment," Pearcy said. "Our students are screened on the basis of their attitude and spirituality, not on what color they are.

"Our school is a direct outreach of our church (Oaklawn Baptist Church), and I think this is a matter of separation of church and state."

The proposals would have little effect on Trinity School initially, said the Rev. P.D. Peterson, headmaster of the school.

Trinity was established in 1957, before the first desegregation orders in Midland, and its growth has been "gradual" throughout the years, he said.

While Trinity would meet the criteria for minority enrollment, he said the "arbitrary specificity and vague language would leave one open to capricious interpretations" of the regulation's meaning.

"We agree with the general intent of the regulation, but disagree strongly with the language and approach," Peterson said.

According to the proposed regulations, the IRS will declare racially discriminatory any private schools that was "formed or significantly expanded at or about the time of desegregation of the public schools" and that has an insignificant number of minority students.

The burden is on the school to show evidence of affirmitive action to secure minority enrollment.

Otherwise, the school would lose its tax exempt status — and its contributors would lose the tax deductibility of their gifts to the school.

Showing affirmitive action, and retaining tax-exempt status, could be accomplished if the school's minority enrollment percentage is at least 20 percent of the total community minority enrollment, or if the school can meet at least four of the following standards:

—Scholarships and financial aid "on a significant basis to minority students."

—"Active and vigorous minority recruitment programs."

—An increasing percentage of minority enrollment.

—Employment of minority teachers or professional staff.

—Substantial evidence of good faith, such as a combination of "continued and meaningful advertising programs;" significant efforts to recruit minority teachers, participation with integrated schools in sports, music and other events; making school facilities available to outside integrated civic or charitable groups; special minority-oriented curriculum or orientation programs, or minority participation in the founding of the school or current governing board.

At least one private school in the city is not concerned about the proposed regulations at all.

St. Ann's Catholic School has a 39 percent minority enrollment and chose not to increase class size for the past two years in order to prevent an influx of students trying to avoid the court-ordered integration plan here, said Sister Martha Ginaine, principal of the school.

The policy of the diocese of San Angelo says the schools "will not be a haven for segregationists," Sister Martha noted.

Although the school does take new students, they are added only after one already enrolled has left, Sister Martha said.

Other schools, however, are concerned about the proposals.

The American Association of Christian Schools, the national group which accredits Oaklawn, has started a letter-writing campaign designed to get 100,000 letters to the commissioner of the IRS before Oct. 23, the cutoff date for public comment on the proposed regulations.

The National Association of Independent Schools has filed suit on behalf of its members asking the IRS to hold public hearings on the matter, Peterson said.

Anyone interested in commenting on the regulations may do so in a letter to the Commissioner of Internal Revenue, Attention EEO, Washington D.C. 20224. The letters must be mailed by Oct. 23 to be considered.

Thirteen cars of a Missouri and Pacific freight train derailed about 6 p.m. Friday near U.S. 79 and Farm Road 3 near Marquez, Texas, in Leon County. At least one of the cars caught fire due to a burning trestle. There was one reported injury. (AP Laserphoto)

Tod Brown

R-T carrier wins $500 TDNA award

Midland Reporter-Telegram carrier Tod Brown is one of three winners of the Texas Daily Newspaper Association $500 award given to newspaper carriers in the Western section of the state.

The award was announced in conjunction with International Newspaper Carrier Day Saturday. Gov. Dolph Briscoe proclaimed the day in Texas.

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Now there's LEVI'S jeans for girls who wear sizes 7-14. They are built to really fit from waist to hip and the legs are longer. We have a variety of styles, colors and fabrics to select from.

13.50
14.00
15.00

7-14 regular, slims.

Save $7.00 Per Yard
COMPLETELY INSTALLED WITH PAD ON
The Soft Carpet
by Bigelow
is the big fashion news and it's now on sale!

Soft subtle colors in soft sensuous textures plus Bigelow's Mark of Performance™ quality and Scotchgard® at special introductory sale prices during our Bigelow fall fashion fair

SEPTEMBER SONG. Full-body multi-toned saxony in Monsanto's new extra-durable, anti-static Ultron-nylon. 4 colors. Rated for Heavy Traffic.

REG. 16.95 sq. yd. $9.95 sq. yd. Completely Installed With Pad

Knorr Revolving Charge
VISA
Knorr FURNITURE
2200 W. TEXAS...AT THE VILLAGE
Draperies
Wall Paper
Office Furniture

DIRT, SQUIRT & QUIRT

Cool air slows cotton harvest

By CHARLES W. GREEN
County Extension Agent—Agriculture

The late September rains and the resulting cooler soil and air temperatures have delayed the cotton harvest in West Texas. Cotton, responding to the moisture, has made some foliage growth and boll maturity has slowed, which has caused producers to go slow on the use of harvest-aid chemicals.

Some earlier cotton or stressed cotton that had opened more fully prior to the weather change has been treated with desiccating chemicals to dry and prepare it for harvest. Producers are repairing and servicing trailers and harvest equipment in the interim before harvest.

Agricultural production in Texas has come a long way since 1906, when the first county agent was hired in Smith County and headquartered at Tyler. He was W.C. Stallings, who was employed by far-sighted leaders enthused over the success of Walter C. Porter's farm demonstration near Terrell in cotton and other crops and new farm practices.

The work at the Porter Farm directed by Dr. Seaman A. Knapp, special agent of the U.S. Department of Agriculture, became the foundation of the nationwide system of Cooperative Extension in agriculture, home economics and related subjects as we know it today. Congress passed the Smith-Lever Act in 1914, paving the way for Cooperative Extension Services in each state of the nation.

The Extension Service was given the responsibility of disseminating the research findings from Land-Grant Colleges and State Experiment Stations to the people. Through the years, the Extension Service has earned a reputation of dealing with major issues and concerns of the people, and in being in the fore-front in times of emergencies.

A big challenge for the Extension Service in Texas came during World War I, when county agents were called upon to help with an all-out agricultural production effort to feed and clothe people throughout the world.

During the "Great Depression" of the 1930's, agents worked with farm and rural people to help them produce and conserve most of their family food needs. Extension, through its county network of agents, has been deeply involved in assisting with many national emergency programs, such as those resulting from hurricanes, floods, droughts, and in animal health problems.

Today, interest in gardening and food preservation has brought many new urban and rural residents to the County Extension offices seeking information. Many new agricultural frontiers have emerged in recent years. Extension county marine agents now serve in a number of the Texas Coastal counties and assist commercial fishermen and shrimpers. Integrated pest management programs are moving ahead.

Livestock programs are designed to improve overall reproductive efficiency and increase the calf crop percentage. Improved crop varieties are among other new thrusts. Agriculture today represents a whole new—but sophisticated—ballgame!

The Agricultural Extension Service is observing the Diamond anniversary of Farm Demonstration Work this October. A special celebration was held in Terrell Friday at the Porter Farm to pay special tribute to Dr. Seamn Knapp and Walter Porter.

With cooler weather, insects begin seeking a warmer place, and homes are ideal locations. The most common household invaders are earwigs, crickets, pillbugs, spiders, millipedes and cockroaches. These pests will damage fabrics, feed on food products and may also transmit disease-causing organisms within the home.

The first control step should start outside. Remove hiding places such as plant debris around the foundation and perform any needed maintenance on portals of entry to keep insects outside. If insects have been a problem in the past, treat the foundation 12 to 24 inches above the soil line with a recommended insecticide such as diazinon, malathion or carbaryl (Sevin). Also apply the insecticide to the soil surface next to the foundation and around sidewalks, patios, driveways and storage areas.

Be sure to read the label and follow directions closely when applying any type of insecticides. If insects are already inside the home, it is usually best to hire a certified pest control operator rather than to take care of the problem yourself.

Simulated rocks like real thing

WESTMINSTER, Md. (AP) — "Rocks" are spilling out of the old Sherwood distillery complex here as workmen ready them for shipment to the Caribbean.

Rock and Waterscape Systems, Inc., is building the simulated rocks for a miniature mountain, complete with three waterfalls, to be built across two swimming pools in the Bahamas.

The process begins at the city dump here.

"We lift rock impressions off the cliffs by pressing latex skins into the rock, then painting them with a special substance so they'll retain that shape," said Ross Dietzel, the company's local plant-foreman.

"It's better to use God's own designs than to hand-sculpt our own, which is what we used to do," he said. "Obviously, using natural formations will produce more natural (simulated) rocks."

The skins are reinforced with polyurethane foam and sprayed with a combination of cement and fiberglass, using a process developed to produce a new type of building material in England.

The molds are then popped off the cement, leaving a tough rock-like formation about three-quarters of an inch thick.

The simulated rock is then sprayed with acid and waterproofed. "Its life is estimated at around 300 years, just like regular cement," Dietzel said.

Sections of the simulated rocks are shipped to where they'll be used, fitted together and hand-sculptured by masons. The miniature mountains can "support the weight of 10 elephants, if necessary," Dietzel said.

The firm, which was founded by former Los Angeles fireman Julian George, has built miniature mountains and wildlife habitats at hotels and zoos in Denver, Washington, Omaha, San Diego, Acapulco and Hawaii.

The local plant was opened last year by Dietzel and other R&W employees who had already worked for a year at the National Zoo in Washington.

"In the two years we've worked there, we've constructed 13 different full-scale exhibits, including several bear caves and dens, a beaver habitat, a seal exhibit and more," the plant foreman said.

"We must learn something about each animal's lifestyle and ability to climb, jump or maneuver before we construct a zoo habitat," he said.

Vaseline PURE PETROLEUM JELLY
15-OZ. JAR... 97¢

Extra Absorbent Daytime PAMPERS 24's 2.49

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OCTOBER

SPECIALS SUNDAY THRU NOON TUESDAY

WE GLADLY ACCEPT U.S.D.A. FOOD STAMPS

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Each advertised item is required to be readily available for sale at or below the advertised price of all stores listed, unless specifically otherwise noted in this ad. If an advertised item is not available for purchase due to any unforseen reason, Gibson's will issue a Rain Check on request for the merchandise to be purchased at the sale price whenever available or will sell you a comparable quality item at a comparable reduction in price. Gibson's policy is to give our customers complete satisfaction.

FARMLAND SMOKED PICN
Sliced 89¢ LB.
WHOLE, LB. 79

PEPSODENT Life Line TOOTH BRUSH 57¢

Listerine Antiseptic 12-OZ. BTL... 89¢

PRELL CONCENTRATE SHAMPOO 1.27
20¢ off Label 5-OZ. TUBE .....

Gillette TRAC II BLADES 9-CT. PKG. 1.87

Q-tips COTTON SWABS 170-CT. PKG. 77¢

NEW! Wondra SKIN CONDITIONING LOTION 10-OZ. BTL. .... 99¢

CALIFORNIA BLACK HAAS SUPER SIZE
AVOCADOS USE IN SALAD, STUFFING OR DIP EACH 59¢

COLORADO BEAUTIFUL NO. 1
RUSSET POTATOES BAKING SIZE 5 LBS. ONLY $1

MEXICO EXTRA LARGE GREEN SEEDLESS
LIMES 3 LBS. 1.00

CALIFORNIA SALAD SIZE FRESH RIPE
TOMATOES LB. 39¢

SWEET & TENDER FLORIDA GOLDEN YELLOW
CORN 6 EARS FOR 99¢

WASHINGTON EXTRA FANCY, LARGE RED or GOLDEN DELICIOUS
APPLES CRISPY SWEET JUICY LB. 47¢

ICE CREAM
BORDEN'S ½-GAL. ROUND 1.29

KITCHEN TREAT Frozen MEAT PIE POT PIES Chicken, Turkey, Beef 6-OZ. PKGS. ... 6 FOR $1

BANQUET Frozen Apple or Peach Pie 20-OZ. 2 FOR 1.00

SEAMCO Green RACKETBALLS No. 559, 2 PER CAN, REG. 3.39 .. 2

Wilson SPEED-FLEX Racketball Racket
No. T9140 or T9141
REG. 13.97... 10.88

CHAMPION NO. 610 RACKETBALL GLOVE REG. 6.47, NOW ... 3.99

Wilson BASKETBALL Model B1335 REG. 4.97 .. 3.49

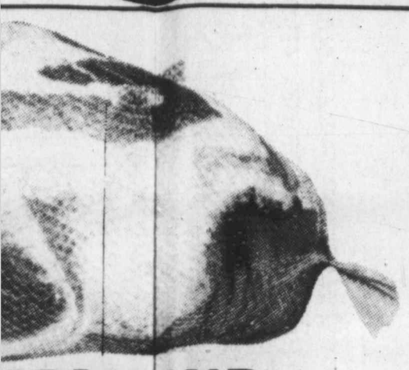
Stuart Hall WIDE RULE FILLER PAPER No. 3577 300-CT. PKG. Reg. 1.09 79¢

REYNOLDS WRAP Aluminum Foil No. 015 12"x75' ROLL, NOW .... 95¢

GLAD 8¼" Plastic Straws No. H700 50-CT. PKG. NOW .... 19¢

BER Food Spectacular

OPEN SUNDAY
9AM-9PM
*WEEKDAYS
9AM-10PM



ARMLAND
KED PICNICS
B. .... 79¢

SPARE RIBS Small Full Pork Plates LB. 1.59
HAMBURGER PATTIES 85% Lean LB. 1.49
FLAVO-LEAN BACON 65% Leaner Than Bacon 12-OZ. PKG. 1.29
BREAKFAST ROLL Maple River LB. ..... 69¢
CORN TORTILLAS Gibson's 36-CT. PKG. ..... 49¢
LONGHORN CHEESE Wisconsin State Red Rind LB. 1.79
SUMMER SAUSAGE Glover's Ready to Eat LB. 1.39
FISH KABOBS Van De Kamp LB. 1.69
SEA FOOD PLATTER Mrs. Paul's, Reg. 1.29 9-OZ. PKG. 1.09

Glover's
BRISKET
EXCELLENT FOR COOKING OVER CHARCOAL.
LB. 89

Convenient sealed capsules

Cough and Cold Capsules 12's, ONLY ..... 69¢

AUDIO MAGNETICS
60-MINUTE CASSETTE
NO. 5260-0264
REG. 2.29 1.88

CREAM
BORDEN'S ½-GAL. ROUND CTN. 1.29

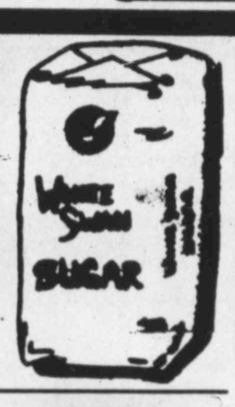
EAT PIE
T Frozen 6 FOR $1

BANQUET Frozen Apple or Peach Pie 20-OZ. 2 FOR 1.00

KOUNTRY KIST
- 16-OZ. Cut Green Beans
- 17-OZ. Medium Sweet Peas
- 12-OZ. Whole Kernel Golden Corn

4 FOR 1.00

White Swan SUGAR
5 LB. BAG 99¢



Casserole 10-Lb. Bag PINTO BEANS 2.69

MAXWELL HOUSE Instant COFFEE 3.79 10-OZ. JAR

GOLDEN FRESH FROZEN Orange Juice 6-OZ. CANS 3 FOR 1.00

ZESTA SALTINES
KEEBLER 1-LB. BOX ... 59¢

CAMPBELL'S
CHICKEN NOODLE SOUP

26-OZ. CANS $ 2 FOR 1

HOLLYWOOD Mayonnaise 24-OZ. JAR ..... 93¢

UNCLE BEN'S Stuff 'n Such
•Sage•Chicken•Cornbread
2 6-OZ. PKGS. 1.00

2 For the Price of 1!
DUPLICATE KEYS
REG. 99¢ EACH
2 FOR 99¢

MAGICUBES
SYLVANIA

1.49

II WIDE RULE PAPER
79¢

95¢

GLAD 2-MIL TRASH BAGS
No. HP649
8-CT. PKG.
REG. 1.45 .
1.15

NO. 98021
S.O.S. SOAP PADS
18-CT. PKG.
REG. 87¢
75¢

Coleman Inflate All T.M. 150

Coleman's answer for inflation! The Coleman Inflate-All™ 150 is the best solution to your big pressure problems. It's a miniature, portable air compressor that operates on your car's cigarette lighter. It comes complete in a sturdy "easy access" carrying case made of hard, durable plastic. Small, lightweight compressor goes anywhere, does anything, from athletic equipment to car tires. Handles anything up to 150 pounds per square inch. The Inflate-All™ 150 is built to meet your big pressure needs.

REG. 36.88...
29.66

Dowgard summer/winter coolant/antifreeze
REG. 3.49 GAL.,
2.99 GAL.

12' Booster Cables
NO. T500
REG. 9.47 ..
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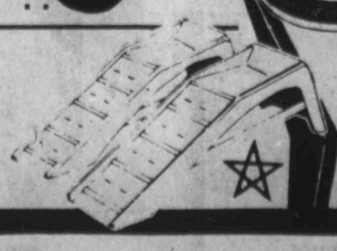
15,000 Miles Between Changes
S.T.P. MOTOR OIL
REG. 99¢ QT. ..
87¢



Kar-Rite Car Ramps
NO. 1077
REG. 24.88,
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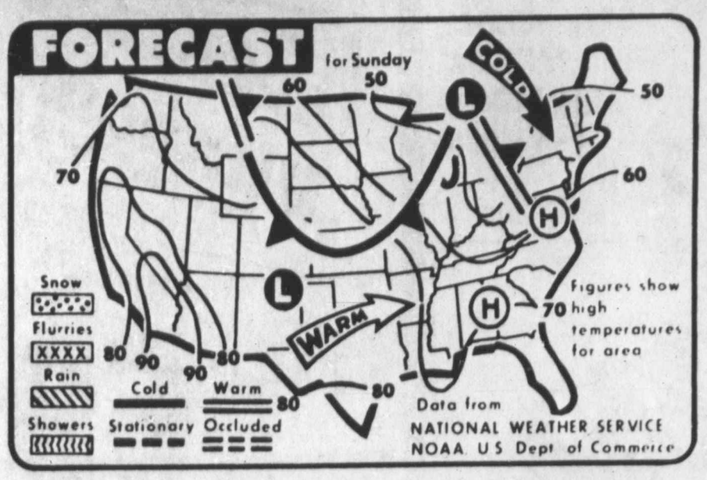
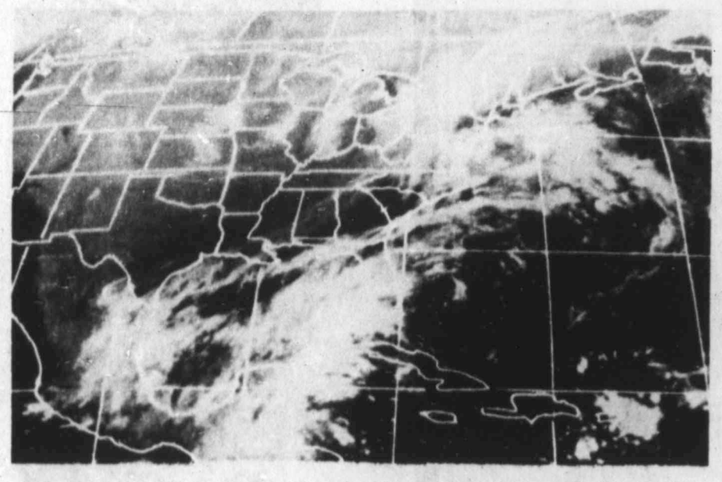
LEBO 8-TRACK TAPE CADDY
Holds 24 Tapes
#TA114
REG. 11.97 ..
7.77

WEATHER SUMMARY



Fair weather is forecast for most of the nation today, with temperatures in the 50s and 60s expected in the North, getting warmer to the South and reaching the 90s in the Southwest. (AP Laserphoto Map)



A broad band of clouds extending from Maine into the mid-Atlantic states and a weaker band extending to the Gulf Coast are seen in this satellite cloud photo, recorded Saturday afternoon. Heavy cloudiness is visible over the Gulf of Mexico, while clear conditions exist from the Rockies to the West. (AP Laserphoto)

Midland statistics

MIDLAND, ODESSA, RANKIN, BIG LAKE, GARDEN CITY FORECAST: Fair through Monday. A little warmer this afternoon. High today upper 70s. Low tonight upper 40s. High Monday near 80. Southerly winds 5 to 10 mph today.

ANDREWS, LAMESA, BIG SPRING, STANTON FORECAST: Fair through Monday. A little warmer this afternoon. High today upper 70s. Low tonight upper 40s. High Monday near 80. Southerly winds 5 to 10 mph today.

NATIONAL WEATHER SERVICE READINGS:

Yesterday's High	67 degrees
Yesterday's Low	41 degrees
Midnight	51 degrees
Sunset today	7:17 p.m.
Sunrise tomorrow	7:53 a.m.
Precipitation:	
Last 24 hours	0 inches
This month to date	0 inches
1978 to date	12.31 inches

LOCAL TEMPERATURES:

Midnight	54		
1 p.m.	62	1 a.m.	48
2 p.m.	64	2 a.m.	47
3 p.m.	65	3 a.m.	46
4 p.m.	66	4 a.m.	44
5 p.m.	67	5 a.m.	43
6 p.m.	66	6 a.m.	44
7 p.m.	64	7 a.m.	43
8 p.m.	60	8 a.m.	41
9 p.m.	58	9 a.m.	47
10 p.m.	56	10 a.m.	52
11 p.m.	53	11 a.m.	58
Midnight	51	Noon	61

SOUTHWEST TEMPERATURES:

	H	L
Abilene	75	43
Denver	70	31
Amarillo	67	38
El Paso	78	43
Ft. Worth	75	47
Houston	72	59
Lubbock	70	41
Marfa	70	
Okla. City	74	38
Wich. Falls	78	40

The record high for Oct. 14 is 91 degrees set in 1970. The record low for Oct. 15 is 36 degrees set in 1966.

Texas thermometer

	Low	High	Pcp
Abilene	43	75	.00
Alice	63	77	.00
Alpine	37	72	.00
Amarillo	38	67	.00
Austin	55	74	.00
Beaumont	58	75	.00
Brownsville	71	79	.00
Childress	43	75	.00
College Station	52		.00
Corpus Christi	62	75	.00
Cotulla	58	76	.00
Dalhart	38	67	.00
Dallas	42	73	.00
Del Rio	59	75	.00
El Paso	43	76	.00
Fort Worth	47	75	.00
Galveston	60	70	.00
Houston	59	72	.00
Junction	59	71	.00
Longview	45	72	.00
Lubbock	41	70	.00
Lufkin	50	72	.00
Marfa		70	.00
McAllen	65	76	.00
Midland	41	67	.00
Mineral Wells	42	76	.00
Palacios	59	75	.00
Presidio	48	79	.00
San Angelo	41	70	.00
San Antonio	54	75	.00
Shreveport	46	71	.00
Stephenville	43	74	.00
Texarkana	43	69	.00
Tyler	43	74	.00
Victoria	59	75	.00
Waco	46	78	.00
Wichita Falls	40	78	.00
Wink	55	72	.00

The weather elsewhere

Saturday

	Hi	Lo	Pre	Otlk
Albany	51	45	.86	cdy
Albu'que	73	38		clr
Amarillo	67	38		clr
Anchorage	44	33		cdy
Asheville	61	48	.10	cdy
Atlanta	67	54	.01	clr
Atlanti~City	65	54	.48	cdy
Baltimore	68	61	.10	cdy
Birmingham	63	49		clr
Bismarck	56	26		cdy
Boise	76	40		clr
Boston	61	55	.85	cdy
Brownsville	79	71		clr
Buffalo	44	40	.43	cdy
CharlstnSC	80	66		clr
CharlstnWV	59	48	.27	cdy
Chicago	53	37	.13	cdy
Cincinnati	48	38	.30	cdy
Cleveland	55	47	.45	cdy
Columbus	53	44	.13	cdy
DalFt.Wth	75	47		clr
Denver	H70	31		clr
DesMoines	57	36	.03	cdy
Detroit	54	40		cdy
Duluth	45	21		cdy
Fairbanks	27	18	.03	M
Hartford	67	50	.25	cdy
Helena	60	26		clr
Honolulu	86	68		clr
Houston	72	59		clr
Ind'apolis	54	43	.09	cdy
Jacks'ville	82	65	.41	clr
Juneau	46	38	.12	rn
Kan'sCity	58	39		clr
LasVegas	95	57		clr
LittleRock	63	43		clr
LosAngeles	86	59		cdy
Louisville	55	46		cdy
Memphis	64	45		clr
Miami	82	72	2.78	cdy
Milwaukee	46	40		cdy
Mpls-St.P.	51	31		cdy
Nashville	59	45		clr
NewOrleans	73	62		clr
NewYork	68	52	.16	cdy
Norfolk	80	64	.04	cdy
Okla.City	74	38		clr
Omaha	56	38	.14	cdy
Orlando	81	72	.03	clr
Philad'phia	74	52	.06	cdy
Phoenix	98	69		clr
Pittsburgh	46	42	.54	cdy
P'tland,Me.	63	51	1.05	cdy
P'tland,Ore	75	43		cdy
RapidCity	62	27		cdy
Reno	83	32		clr
Richmond	76	63	.03	cdy
St.Louis	56	37	.01	clr
St.P.Tampa	75	74	.36	clr
SaltLake	71	39		clr
SanDiego	84	65		cdy
SanFran	70	57		cdy
Seattle	71	49		cdy
Spokane	66	35		clr
SSteMarie	40	27		rn
Tulsa	74	40		clr
Washington	70	60		cdy

Texas area forecasts

West Texas: Mostly fair Sunday through Monday, and warmer most sections Sunday afternoon. Lows Sunday night low 40s in the Panhandle and southwest mountains to low 50s in the south. Highs Sunday and Monday 70s most areas to mid 80s in the Big Bend.

North Texas: Fair with a gradual warming trend Sunday through Monday. Lows Sunday night in the 40s. Highs Sunday and Monday 74 to 82.

South Texas: Fair and cool nights with sunny and pleasant afternoons through Monday. Highs Sunday and Monday mostly in the 70s. Lows near 40 northwest to upper 50s south.

Upper Coast: Winds will become light and variable Sunday afternoon and Sunday evening. Seas will subside Sunday.

Lower Coast: Winds will become light and variable Sunday afternoon and Sunday night. Seas will subside Sunday.

Bush leads in fund-raising race

(Continued from Page 1A)

listed.

Bush, a 32-year-old independent oil producer, has only $37,376.84 cash on hand. He has a $4,304.50 debt listed.

Both men are spending more money on getting their image and message across to the public than on any other single item.

Hance spent $12,932.17 with Otice Green and Associates in Lubbock for public relations and related advertising costs. Another $1,434.94 went to Downtown Printing Inc., in Lubbock for brochures.

But Bush, apparently not one to run second on any aspect of the campaign, also has outspent Hance in getting an image across to the voters.

A total of $82,190.19 has been paid Scratch Pad in Austin for media production work. Another $11,672.86 went to Wheeler Film Service in Overland Park, Kan., for filming. He spent another $1,500 with Harry Treleaven in New York for consulting work. Marvin Collins in Dallas received another $3,750 for consulting work.

Most of Hance's contributions came from Lubbock with several from Odessa, Dimmitt and other small towns in the district. Nine contributors from Midland are listed.

According to Bush's report, he has received strong support from Midland. But a list of other contributors shows much of Bush's financial support comes from outside the state.

This list includes Mr. and Mrs. Scott Pierce, vice chairman of E.F. Hutton in Ndew York, $250; James McDonnell, chairman of McDonnell Corp. in St. Louis, $1,000; William C. Ford of Dearborn, Mich., vice chairman of Ford Motor Co., $500; C. Harvey Bradley Jr., general counsel for Eli Lilly and Co. in Indianapolis, Ind., $250; John Loeb, partner in Loeb, Rhoades Co. in New York, $1,000; Mr. and Mrs. Ming Hsu, an executive with RCA Corp. in New York, $200; Herman Lay with Frito-Lay in Dallas, $250; John P. Macomber, president of Celanese Co., $250; Mrs. Douglas MacArthur in New York, $100.

Also listed are Peter O'Malley of Los Angeles, owner of the Los Angeles Dodgers, $250; Jerry Weintraub, a film producer in Beverly Hills, Calif., $1,000; Bowie Kuhn, commissioner of baseball, $250; Mr. and Mrs. Alden Clausen, chairman of the Bank of America in San Francisco, $200, and Donald M. Kendall, chairman of PEPSICO in Purchase, N.Y., $150.

Those contributing $1,000 or more to Bush's campaign include: Jack B. Wilkerson of Midland, real estate; Barry Beal of Midland and Carlton Beal of Midland, both petroleum engineers; Spencer Beal of Midland, oilman; F.L. Thompson of Midland, drilling contractor; Mr. and Mrs. Bill Munn of Midland, independent oil man; Margaret Ann Leede of Midland, housewife; Peter O'Donnell Jr. of Midland, investor; Edward Leede of Midland, independent oil man; Carty Beal of Midland, petroleum engineer; Edith Jones O'Donnell of Midland, housewife; W.S. Farrish III of Houston, investor; Mr. and Mrs. John Redfern III of Midland, independent oil man; Frances H. Chiles of Fort Worth, housewife; Robert Mosbacher of Houston, oil and gas producer; James E. McDonnell of St. Louis, Mo., chairman of McDonnell Corp.; J.R. Butler of Houston, oil and gas consultant; Mr. and Mrs. J.A. Elkins Jr. of Houston, banker; John Loeb of New York City, partner in Loeb, Rhoades Co.; David K. Wilson of Nashville, Tenn., investment company; John Hendrix of Midland, independent oil producer; Richard L. Gelb of New York City, chairman of Bristol-Myers; A.B. Alkek of Houston, owner of Foremost Petroleum Co.; Wintom M. Bloont of Montgomery, Ala., president of Blount Construction; Jerry Weintraub of Beverly Hills, Calif., Mrs. Keleen Beal of Midland, housewife; Leslie Forshagen of Midland, housewife; Rosalynde Brown of Midland, housewife; Mrs. John Hendrix of Midland, hohsewife; Linda Cowden Isbell of Midland, housewife; Bascom Mitchell of Midland, oil operator; Deane H. Stoltz of Midland, oil and gas producer; Michael and Judith Wood of Washington, D.C., publishers; Theo N. Law of Houston, investments; Nancy Gibson of Midland, housewife; Richard Gibson of Midland, attorney; Chandler of Houston, restaurant owner; Sam Wyly of Dallas, president of Executive Records; Ralph Way of Midland, oil and gas operator; W. Watson LaForce of Midland, independent oil operator; R.O. Major of Midland, president of MGF Oil Co.; William C. Lidtke Jr. of Houston, executive with Pennzoil Inc.; Mr. and Mrs. Thornton Hardie Jr. of Midland, lawyer; E.J. Hudson of Houston, investments; W.D. Kennedy of Midland, oil operator; K.K. Amini of Midland, owner of Rial Drilling Co.; Herschel O'Kelley of Midland, investments; Mrs. J.W. Starr of Midland, housewife; W.R. and Jo Ann Davis of Midland, independent oil operator; George G. Staley of Midland, geologist; Karen Beal of Midland, housewife; Penny Branum of Midland, housewife; Ford Chapman of Midland, oil operator; J.D. Leftwich of Lubbock, contractor, and George Gibson of Midland, geologist.

Contributing at least $500 to Bush were:

Robert Preston of Midland, landman; Dorothy W. Bush of Greenwich, Conn.; Thomas C. Brown of Midland, president of Tom Brown Inc.; H.L. Brown Jr. of Midland, oil operator; Mr. and Mrs. H.V. Neuhaus Jr. of Houston, architect; Mr. and Mrs. Fred M. Zeder II of Honolulu, president of Paradise Cruise, Ltd.; V.F. Neuhaus of Mission, investor-rancher; Charles N. Prothro of Wichita Falls, independent oil operator; Fred C. Chambers of Houston, president of C&K Petroleum; Alvin M. Owsley of Houston, attorney; Joe Roper of Midland, vice president of Tom Brown Inc.; Alex Head of Houston, oil producer and investor; Mr. and Mrs. Baine P. Kerr of Houston, president of Pennzoil Co.

Also, Josephine Abercrombie of Houston, private investments; William C. Ford of Dearborn, Mich.; Martha Ford of Dearborn, housewife; Eugene F. Williams Jr. of St. Louis, Mo., chairman of St. Louis Union Trust Co.; Tom D. Fowler of Midland, independent oil man; Mr. and Mrs. George A. Garrett of Washington, D.C., attorney; J. Clifford Folger of Washington, D.C., retired; Lewis Rudin of New York, N.Y., real estate executive; Frank Morgan of Lubbock, salesman; Mr. and Mrs. Joe Lyday of Fort Arthur, owner of Coastal Marine Service; William H.T. Bush of St. Louis, president of Boatman's National Bank; Ralph H. McCullough of Houston; B. Joe Pevehouse of Midland, president of Adobe Oil.

Also contributing at least $500 were Sanford E. McCormick of Houston, oil and gas business; George F. Bellows of Houston, vice president of W.F. Bellows Construction; Nicholas Morley of Miami, Fla., chairman of Interierra, Inc.; Paul L. Davis of Midland, vice president of First Savings and Loan; Roy E. Campbell of Midland, president of Elcor; Mrs. Roy E. Campbell of Midland; Mr. and Mrs. Smith Ray of Midland, lawyer; Johnny Warren of Midland, independent oil man; Mr. and Mrs. J. Hugh Liedtke of Houston, chairman of Pennzoil; Mrs. Charles M. Simmons of Fort Worth, housewife; Mr. and Mrs. Roderick Hills of Washington, D.C., attorney; Patricia P. Pryor of Houston, housewife; C.H. Priddy of Midland, executive with Magnatex Corp.; J.H. Herd of Midland, investment; Sam Hurt of Midland, rancher and oil interests; John Middleton of Liberty, independent oil producer; Earl M. Gilbert of Houston, investments; Eugene E. Nearburg of Dallas, executive; D.N. Fitzgerald of Midland, agent with Slough Equipment Co.; John T. Malone of Houston, independent oil operator; Michael H. Allen of Houston, real estate developer.

Also, Henry C. Beck Jr. of Dallas, executive; John G. Pew of Dallas; Dr. Charles S. Peter Jr. of Houston, physician; Campbell H. Elkins of Lubbock, attorney; Tom Fowler of Midland, independent oil operator; Jim R. Bath of Houston, real estate; Mr. and Mrs. Roger Wallace of Houston, importer; J.M.C. Ritchie of Santa Fe, N.M., independent oil and gas producer; David M. Underwood of Houston, executive; Joe Kirk Fulton of Lubbock, baner with Plains National Bank; Dr. Charles M. Younger of Midland, physician; E.R. Duke of Midland, owner of Mustand Mud Co.; Jim Allega of Midland, owner of Allega Travel Agency; Louis F. Polk Jr. of New York, N.Y., chairman of Leisure Dynamics board; J. Dan Griffis of Lubbock, vice president of Hemphill-Wells; Thomas J. Gordon of Houston, with Deauville Corp.; R.J. Johnston of Kerrville, rancher and oil producer; Stanley Moore of Midland, investment; Earl Mack Hunter of Plainview, vice president of City National Bank; J. Evans Atwell of Houston, attorney, and Max Christensen of Midland, geologist.

Contributions to Bush from political action committees include:

TRANPAC of Houston, $200; Citizens for the Republic of Santa Monica, Calif., $1,000; FURNAC of Washington, D.C., $200; Western SAFEPAC of Fort Worth, $500; Chevron PAC of San Francisco, Calif., $200; United Fund for Republican Victory of Austin, $200; Allied Chemical PAC, $75; Southwestern Employees PAC, $100; Greater Houston Young Adult Republican Club PAC, $100; Monsanto Citizenship Fund of St. Louis, $500; The Bluebonnet Fund of Houston, $500; Weyerhaeuser Special Shareholders PAC of St. Paul, Minn., $1,000; Texas Gas Transmission PAC of Owensboro, Ky., $250; Celanese PAC of New York, $200; National Republican Congressional Committee of Washington, D.C., $4,000; Bristol-Myers Employees Good Government Committee, $150; Dresser Industries PAC of Dallas, $150; Employees Good Government Fund of Midland, $500; Gulf Resources PAC of Houston, $150; Pan Am PAC of Washington, D.C., $150; Political Fund of Washington, D.C., $150; St. Joe Minerals PAC of Washington, D.C., $500; United Technologies of Washington, D.C., $300; Abbott Laboratories of North Chicago, Ill., $150.

Also, Eastern Airlines PAC of Washington, D.C., $150; American Consulting Engineers of Washington, D.C., $150; Committee Organized for the Trading of Cotton of Washington, D.C., $500; National Association of Casualty and Surety Agents, Washington, D.C., $200; The Fund for Effective Government of New York, $300; Public Service PAC of Vienna, Va., $150; Merit Shop PAC of Washington, D.C., $150; Halliburton PAC of Duncan, Okla., $500; Non-Partisan Political Support Committee for General Electric Employees, Washington, D.C., $500; Group P Committee of Houston, $500; SEDCO PAC of Dallas, $500; Columbia Gas Employees of Wilmington, Del., $300; Republican Congressional Booster Club of Washington, D.C., $5,000; Burlington Industries Good Government Committee, Greenboro, N.C., $150; E.F. Hutton PAC, New York, $1,000; Pullman Employees Good Government Committee, Chicago, Ill., $190; Political Awareness Fund, Los Angeles, Calif., $750; Eli Lilly and Co. PAC, Indianapolis, Ind., $350; Merrill Lynch PAC, New York, $100; Professional Insurance Agents, Alexandria, Va., $100; Readers Digest PAC, $250; Kemper Campaign Fund, Washington, D.C., $150; United Taxpayers for Good Government, Lafayette Hill, Pa., $1,000; Potlatch Employees PAC, San Francisco, Calif., $250; Pfizer employees for Non-Partisan Good Government Fund, New York, $500; Dowell Employees PAC, Houston, $300; Georgia-Pacific Employees Fund, Portland, Ore., $200; Getty Oil Co. PAC, Los Angeles, Calif., $500; Steak and Ale PAC, Dallas, $500; The National Good Government Fund, Houston, $400; American-Standard Good Government Fund, New York, $250; Direct Action Fund of LTV Corp.-Vought Corp., $200; Boise Cascade Political Action Fund, Boise, Idaho, $500, and Chilton PAC of Dallas, $200.

Persons contributing $1,000 to the Hance campaign were:

B.J. Jones of Odessa, president of Jones Brothers Rental; Giles B. Dalby of Post, a rancher; Clem Bovarie of Lubbock, chairman of Furr's Inc.; Roy Furr of Lubbock, president of Furr's Inc.; Clifton Cummings of Lubbock, vice president of Furr's Inc.; Dan J. Croy, M.D. of Tesuque, N.M., physician; Leroy Elmore of Lubbock, Realtor; John L. Cox of Midland, oil operator; Ralph E. Williamson of Midland, oilman; Mrs. C.L. Siewert of Lubbock, housewife; and C.L. Siewert of Lubbock, construction and ranching.

Contribution at least $500 to the campaign were:

W.D. Noel of Odessa, chairman of El Paso Products; Gene Jones of Houston, state senator; Toby Foster of Lubbock, oil investments; Charles Scarborough of Lubbock, owner of Mrs. Camp's Pastries; H.D. Ford of Midland, president and owner of Rocky Ford Moving Co.; M.D. Abel of Midland, oilman; William F. Warnick of Lubbock, attorney; George Thompson of Lubbock, attorney; Doug James of Lubbock, farmer and owner of Broadview Gin Co., Inc.; Neff Preston of Lubbock, $500; John C. Hayes of Hereford, rancher and farmer; W.A. Yeager of Midland, oilman; Bennie Claunch of Bula, farmer and owner of Claunch Gin; Murray Fasken of Midland, chairman of the board at Midland National Bank; John C. Sims of Lubbock, attorney; Richard S. Hubbert of Lubbock, attorney; Don R. Kidd of Lubbock, attorney; Jim Kassahn of Lubbock, farmer and rancher; James W. Trimble of Houston, treasurer of Parker Brothers, Inc.; James E. Welch of Dimmitt, farmer; Johnny H. Splawn of Lubbock, attorney; D.C. McWhorter of Hereford, cattle feeding and investments; and Preston Johnston of Lubbock, automobile dealer and investments.

Political Action Committees contribution to Hance's campaign were:

SCOPE of Amarillo, $500; Life Underwriters Political Action Committee of Washington, D.C., $1,000; EMPAC, Central Region, Freeport, $1,000; TEXPAC of Austin, $5,000; McDonald's Political Action Committee of Oak Brook, Ill., $500; Texas Educators Political Action Committee of Austin, $300; American Agriculture of Wolfforth, $500; Title Industry PAC of Washington, D.C., $500; Democratic Congressional Campaign Committee of Washington, D.C., $3,000; Florida Agricultural Education Committee of Washington, D.C., $200; Good Government Political Action Committee of Fort Worth, $500; Beef-Pac of Amarillo, $500.

Also, Lone Star Steel of Dallas, $500; American Sugar Cane League of New Orleans, La., $250; Marathon Employees PAC of Findlay, Ohio, $100; Committee for Thorough Agricultural Political Education of San Antonio, $2,000; AMOCO PAC of Chicago, Ill., $500; Constructive Citizenship Program of Richardson, $1,000; Group P Committee of Houston, $1,000; FERT PAC of Washington, D.C., $100; N-CAP Political Contributions Account of Washington, D.C., $500; The National Good Government Fund of Houston, $500; Sears Political Action Committee of Chicago, $150; Hockley County Democratic Party of Levelland, $175; Agricultural and Dairy Educational Political Trust of Springfield, Mo., $500, and Civic Trust 80 of Chicago, $250.

Waiting for the band to play at a Saturday night political rally for Republican congressional candidate George W. Bush are 2-year-old Brent Sawyer and his 5-year-old brother, Logan. The boys are the sons of Mr. and Mrs. L.E. Sawyer, 1405 Community Lane. (Staff photo by Mike Kardos)

Bush-backers barbecue looks like 'love fest'

By LANA CUNNINGHAM
R-T Staff Writer

It was a love fest for George W. Bush.

The Bush Country Barbecue rally held by Bush's supporters Saturday in the American Legion involved a little politicking, a lot of eating and a lot of relaxation. It's possibly the last time Bush's workers will have a chance to put their feet up and let their hair down until after the Nov. 7 general election.

Bush, a Republican from Midland, is running against Democrat Kent Hance of Lubbock for the 19th Congressional District seat.

The excitement is building, Bush told the audience, still chewing on their barbecue and sipping their iced tea.

"We're so excited it's hard to contain our enthusiasm," Bush said, recounting how his organizations are growing throughout the district "day by day."

Bush said a Lubbock poll taken a month ago showed Hance leading, 53-47. Another one released this past week reflected a change. This time, Bush said, it showed a 45-to-41 Bush lead.

Working his way into his familiar political speech, his tempo quickening, Bush said, "The people in West Texas are realizing government is becoming a stifle. In 1978, we are taxing productivity, taxing profits, taxing savings and subsidizing welfare.

"The United States was built upon the ability to succeed and that's what this race is all about."

He paused a moment, as if to catch his breath, then continued, saying there needs to be a philosphical change in thinking.

Bush said he realizes some people are staunch Democrats, "and they're afraid their grandmother or grandfather are going to roll over (in their graves) if they change parties."

But, he added, the clear issue in this campaign is who can go to Washington and "go toe-to-toe with (President) Carter and (Speaker of the House Tip) O'Neill."

"We are on the brink of victory, and it is a sweet smell," he said.

But the slight edge he may have over Hance now is not enough. "We're asking you to do that little extra that will accomplish the election of a friend of West Texans to the U.S. Congress."

But it was evident that his workers are looking forward to Nov. 7 for more reasons than one. As supporter Don Evans put it, "God, I've heard one of his jokes at least 50 times."

Incident confirms old adage among the politically aware

By LINDA HILL
R-T Staff Writer

It's said politics makes strange bedfellows, and an incident that's set tongues wagging in Midland among the politically aware seems to prove the old adage.

The occasion was a fundraiser for Jim Baker, Republican candidate for attorney general. The place was Midland's Petroleum Club.

Jim Conine, who supports Baker, but doesn't "vote straight Republican," was to conduct an auction. But first, he introduced a candidate for office that had been missed during the first go-round — County Judge Blake Hansen, Democratic candidate for that office, who was there at Conine's invitation.

Conine says he did not endorse Hansen at the event. "I didn't urge them to vote for him or anything. I just introduced the little fellow," said Conine.

Hansen said he was there "at the invitation of and guest of Jim Conine." But he declined to comment further on the incident.

Bill Ahders, Republican candidate for county judge, also was in the audience, and, by all accounts, state Republican Committeeman Robert Monaghan tried to introduce him, also.

"He ignored me," Monaghan said of Conine.

Conine explains the incident by saying Monaghan "was trying to do a little pushing" to get attention for Ahders.

"This thing is getting blown out of proportion," Conine said.

For the record, Hansen said he isn't a Baker supporter.

Absentee voting scheduled

Absentee voting for the Nov. 7 general election begins Wednesday and will continue through Nov. 3 in the Midland County clerk's office.

Persons who expect to be out of the county on election day and those in certain other categories may vote absentee in person in the clerk's office during that period. Or they may request a ballot be mailed to them.

County Clerk Rosenelle Cherry said applications for mailed ballots will be taken until Wednesday in the clerk's office on the first floor of the county courthouse until Wednesday. After that, applications for mailed ballots must be received by mail, she said.

In addition to those who expect to be out of the county on election day, persons who are 65 years old or older, who are confined in jail, who have sickness or disability that would prevent them from voting in person or whose religious belief doesn't allow them to vote in person on the day of election may cast absentee ballots.

Both candidates optimistic about battle for judgeship

(Continued from Page 1A)

does not make or second motions. But state law does permit such participation, and county judges in some other area counties routinely do so.

But neither candidate seems inclined to break the local tradition.

"Unless it is a tie vote, it doesn't change anything," Hansen said. He said he will express his opinion on issues, however, and "if it comes to a tie, I'm going to vote exactly the way I told them."

Ahders said he would seem himself primarily as a "persuading force," adding, "I don't know how you could keep from participating (in the discussions). I have very decided ideas."

During the next year or two, the candidates agree, one of the major issues will be realligning county commissioner precinct lines.

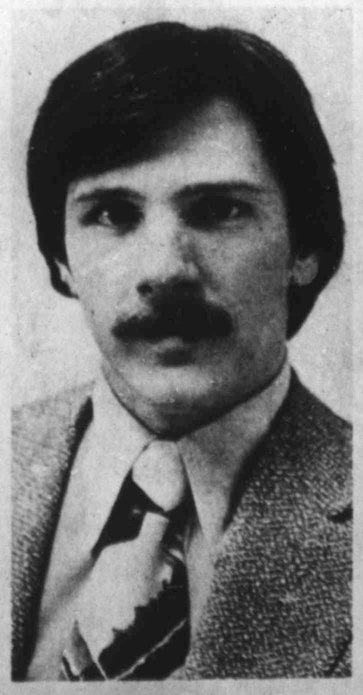
The major problem with the present boundaries, according to both men, is that the precincts are not all contained within contiguous areas.

"Where to start, I don't know," said Hansen. "It's always a very, very touchy situation."

Ahders advocates forming an "unprejudiced committee" to make recommendations on how the lines should be drawn.

The current boundaries split the bulk of the minority vote into two precincts. Hansen said he thinks the U.S. Justice Department, which under the Voting Rights Act must approve any redistricting plan, will require minority vote to be concentrated in one precinct.

Ahders said he doesn't think location of minority voters should be a factor in drawing boundary lines.



Blake Hansen

Bill Ahders

Days springlike despite season

Though October is well underway, it might as well be spring.

And temperatures should continue to warm up through Monday, says the National Weather Service at Midland Regional Airport.

Fair skies are predicted through Monday, with a high today in the upper 70s, a low tonight in the upper 40s and a high Monday near 80.

Southerly winds from 5 to 10 mph are expected today.

Saturday's official high was a relatively warm 67 degrees, but considerably cooler than the record 91 degrees the area experienced in 1970.

Saturday's low was 41 degrees.

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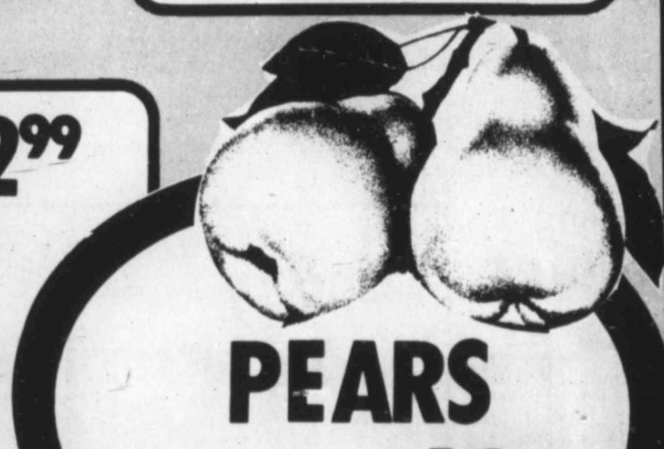

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Furr's SUPER MARKETS

Playa lake pollution stirs 'oily duck' controversy

By MARK VOGLER
R-T Staff Writer

ANDREWS — The discovery of dead ducks on the lonely shores of a playa lake 15 miles west of this oilfield city has sparked national concerns over wildlife and the future of West Texas's major natural resources - oil and water.

The issues involved in the controversy are clearcut:

—Oil is the backbone of the thriving economy and growth of the region.

—Water is the life-blood support system.

—Environmental conditions of Whalen Lake and other similar bodies of water in West Texas potentially can affect hundreds of thousands of migratory birds that make winter rest stops here before flying to destinations all over North and South America.

A search for a whooping crane in the fall of 1976 took agent Dick Endress of the U.S. Department of Interior to the 630-acre playa lake in Andrews County where by accident he embarked on his "oily duck case."

At Whalen Lake, Endress failed to find the whooper. He did, however, discover a variety of waterfoul — dabblers, waders and divers. But all of them were dead. The agent contends the birds had succumbed to oil and brine water polluting Whalen Lake.

Endress said the disposal practices which occur at Whalen Lake and other playa lakes in West Texas violate the Migratory Bird Treaty Act.

In February of 1977, a federal grand jury in Midland investigated a complaint by Endress and the National Audubon Society that water pollution caused by oil companies discharing into Whalen Lake was taking a massive toll of migratory birds. Endress has since documented up to 500 dead birds at the lake.

Rather than prosecute, the U.S. Attorney's Office decided to turn the case over to the Texas Railroad Commission for investigation.

The Railroad Commission in September of last year authorized the Whalen Corp., a subsidiary of Triton Oil & Gas Co., to continue to dump

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200,000 gallons of brine and bottom sediment into the lake.

Renewal of the disposal permit will be the subject of a railroad commission hearing Oct. 26 in Austin.

"There is no indication that the lake constitutes any threat of pollution to fresh water sources, but the surface condition of the lake is such that from time to time it is fatal to certain migratory birds," wrote the commission in an Aug. 9, 1977 memorandum.

"If use of the lake as a salt water disposal point were prohibited, approximately 20,000 barrels of oil per month would be lost," the commission stated in its final opinion last year, because this method is much cheaper than well injection.

Arnold Darrow, president of Whalen Corp., said that amount of lost oil would be enough to put a serious crimp into the economy of the Permian Basin and added well injection in West Texas is difficult and costly.

Whalen Corp. contends it already has invested hundreds of thousands of dollars to make improvents in its current disposal system, which Darrow agrees is not functioning up to par.

Most oilfield brine is re-injected into the ground in wells designed to increase pressure in underground resevoirs and thereby increase oil recovery, or in deep wells where industry experts say it will not contaminate fresh water.

Darrow is confident his company can make enough improvements in the remaining time before the hearing, or at least come up with affirmative policies, to convince the Railroad Commission and environmentalists the discharge permit should be granted.

Chemists from the Texas Department of Parks and Wildlife said recent tests taken at the lake indicate excessive amounts of petrolem materials are being discharged into the lake and may be contaminating the ground water.

The chemists, who said they have not seen any improvement in conditions of the lake over the past year, have launched an investigation into conditions at several other playa lakes in the region.

The Railroad Commission, which regulates approximately 40 percent of the nation's oil production and also has sole jurisdiction over petroleum waste disposal into playa lakes, so far has taken the position that the issues raised over Whalen Lake and other alleged pollution at playa lakes in West Texas have been grossly exagerated.

Several state agencies have received many complaints alleging ground water contamination in West Texas because of brine disposal methods in recent years. But the Railroad Commission disputes the reports and considers the situation to be minor.

The Railroad Commission adopted a so-called "not pit" rule to ban

(Continued on Page 9B)

Dipping into a "skimming pit" for a water sample at Whalen Lake is Arnold Darrow, president of the Whalen Corp. U.S. Interior Department agent Richard Endress looks on. (Staff Photo by Mark Vogler)

Dam completion approved

WASHINGTON (AP) — The House voted Saturday to permit completion of the Tellico Dam despite a Supreme Court ruling that halted work on the project because it endangers the tiny snail darter fish.

The decision, on a vote of 231-157, came as House members debated a bill to permit exemptions under the Endangered Species Act, the law the court used to make its ruling last summer.

The House was expected to complete action on the measure later in the day.

The Senate approved legislation earlier this year setting up an exemption procedure under the law, but rejected a provision that would automatically have permitted completion of the Tellico Dam.

The conflict between the House and Senate bills was left to be resolved by a House-Senate conference committee.

The Tellico Dam is more than 90 percent complete, but the Tennessee Valley Authority was denied permission to close its floodgates. The nation's highest court said that to do so would wipe out the habitat of the snail darter, a three-inch fish on the endangered species list.

The current law, approved five years ago, prohibits federal agencies from taking any action that threatens an endangered species.

But controversy in Congress over the Tellico Dam and the snail darter resulted in strong pressures to amend the law to provide more flexibility.

Both the Senate and House bills call for a high-level federal review commission with authority to grant exemptions under tightly controlled circumstances.

Before granting an exemption, the commission would have to decide that the benefits of completing the project outweigh the benefits of preserving the species.

It also would have to rule that there are no feasible or prudent alternatives to the project before an exemption could be granted.

Ironically, the chairman of the TVA, S. David Freeman, told Congress earlier this year he wasn't certain how the agency wanted to proceed on the $119 million dam and reservoir project.

Freeman told a House committee that environmental concerns aside, it might make more sense to redesign the project.

Meeting set for MHMR trustees

Trustees of the Permian Basin Community Centers for Mental Health and Mental Retardation are scheduled to take action on personnel committee recommendations at their regular meeting at noon Monday.

The meeting will be in the Permian Basin Regional Planning Commission conference room at Midland Regional Airport.

Also on the agenda for the meeting are reports from the treasurer, chairman of the board and director of the agency as well as activity reports from the centers.

Trustees also are scheduled to hold a closed executive session to discuss a real estate transaction.

Polio epidemic kills one infant

SANTO DOMINGO, Dominican Republic (AP) — Health officials issued an urgent appeal Saturday to have small children vaccinated against a polio epidemic in this Caribbean nation that has already taken one infant's life.

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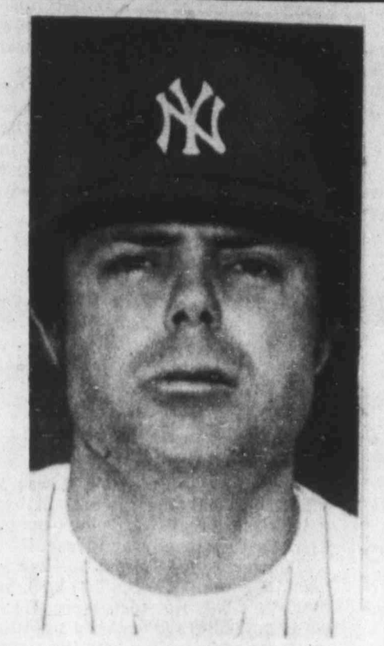


Yanks Lou Piniella
...game-winning hit

Yanks even World Series

NEW YORK (AP) — Lou Piniella knew what was coming his way when he went to the plate against Dodgers reliever Bob Welch in the 10th inning of Saturday's fourth World Series game.

The game was on the line with runners at first and second and two out. Piniella's single delivered the winning run in New York's 4-3 victory over Los Angeles.

"He throws fastballs," said Piniella, "nothing but fastballs. Very fast balls. I beieve it's easier to gear yourself up when you know what's coming."

PINIELLA SAID the ball he hit was a fastball, up.

"It was a bad pitch, too high," he decided. "I could've popped it up or hit a fly ball on it, too."

Instead, Piniella drilled a single that brought Roy White home from second base. White had walked on a 3-2 pitch after battling back from an 0-2 count against Welch. He moved up on a two-out single by Reggie Jackson, who had been victimized by Welch on a game-ending strikeout in the second World Series contest.

WHITE RECALLED his trip around third base with the deciding run. "The guy on deck said, 'Stand up!'" he said. "I grinned a lot then."

Piniella and Jackson were involved in a bizarre play during a two-run rally that got the Yankees back in the ball game in the sixth inning.

White started the rally with a one-out single and Thurman Munson, who later doubled home New York's tying run in the eighth, walked on a 3-2 pitch.

Jackson followed with a single to right, scoring White with the first Yankees run and extending his streak of driving in at least one run to eight consecutive Series games. That tied the all-time record held by Lou Gehrig.

With the score 3-1 and runners at first and second, Piniella lined a shot to the shortstop side of second base. Bill Russell gloved the ball for a moment and it seemed like a sure double play with Munson trapped off second base.

But then Russell dropped the ball. He recovered in time to step on second and it appeared he still might complete the double play with a throw to first. But the throw struck Jackson, who had ventured only a few feet off first, in the right leg and bounced away.

That allowed Munson to score. The Dodgers argued Jackson had interfered with the throw, but the umpires disagreed. It was ruled a fielder's choice and Russell got an error on the throw.

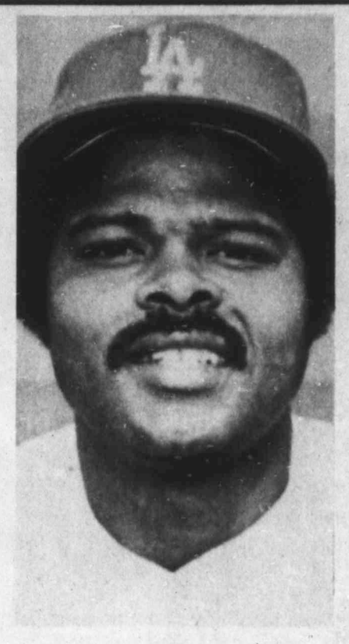
"Reggie saw the ball coming," said Russell. "He moved right into it. That's interference."

FIRST BASE umpire Frank Pulli of the National League understood Russell's argument.

"I couldn't tell whether Jackson intentionally interfered with the ball or not," he said. "I was back maybe 15 feet because there is the possibility of a double play happening and I take that call in fair territory. If he moves in the way of the ball, then we have intentional interference."

Piniella's hit beat rookie Bob Welch, who had come out of the Dodgers bullpen to escape a dangerous jam in the eighth inning when the Yankees rallied to tie the score on a double by

(Continued on 2-B)



LA's Reggie Smith
...three-run homer

Paul Blair of the New York Yankees strains as he is thrown out at home plate by Los Angeles outfielder Reggie Smith in the first inning in fourth game of the World Series in Yankee Stadium Saturday afternoon. Making the tag is Dodger catcher Steve Yeager. (AP Laserphoto).

SMU, Ford comes back to topple Baylor, 28-21

WACO, Texas (AP) — Southern Methodist quarterback Mike Ford erased a 21-point deficit with four second-half touchdown passes to slippery Emanuel Tolbert Saturday, propelling the Mustangs to a pulsating 28-21 Southwest Conference victory over the luckless Baylor Bears.

The Bears, who have lost all five of their games after leading in the fourth quarter, clawed to the end but David Hill intercepted a pass with 16 seconds to go to clench the incredible come-from-behind victory.

BAYLOR LED 21-0 at halftime thanks to five lost SMU fumbles. But three critical mistakes by Bear quarterback Steve Smith gave the Mustangs heart.

Ford, the cool-headed, strong-armed sophomore connected on scoring passes of 4, 9, 9 and 6 yards to Tolbert, who caught three of the scoring tosses in a frantic 22-point SMU fourth-period.

Ford completed 32-of-43 passes for 325 yards and a SWC record-tying four touchdown passes.

Tolbert caught 13 passes for 134 yards and a league record-tying four touchdown passes.

The victory gave SMU a 3-1-1 season record and a 2-0 mark in SWC play. Baylor is 0-5 overall and 0-2 in league play.

Hill also was responsible for a key play that turned the game around midway in the third quarter. Smith appeared to be on the verge of scoring Baylor's fourth touchdown when Hill stripped him of the ball and Tim Jones recovered at the Mustang one. SMU went 99 yards for its first touchdown and the Bears couldn't awaken from their trance before 36,500 fans in Baylor Stadium.

Baylor tailback Steve Howell ran 13 yards for a touchdown to cap an 80-yard drive in 18 plays and the Bears took a quick 7-0 lead.

A fumbled snap by Ford put Baylor in position for another touchdown which came from one yard out by Frank Pollard. Mickey Elam ran a yard for Baylor's third touchdown as the Bears threatened to make a rout of the game in the second quarter.

BAYLOR GOT a big break when SMU's Darold Turner fumbled the ball away at the Bear yard-line just before intermission.

After Smith made his crucial fumble, he served up an interception to

(Continued on 2-B)

SMU	0	0 6 22—28
Baylor	14	7 0 0—21

BAY— Howell 13 run (Bledsoe kick)
BAY— Pollard 1 run (Bledsoe kick)
BAY— Elam 1 run (Bledsoe kick)
SMU— Tolbert 4 pass from Ford (run failed)
SMU— Tolbert 9 pass from Ford (Garcia kick)
SMU— Tolbert 9 pass from Ford (run failed)
SMU— FG Garcia 20
SMU— Tolbert 6 pass from Ford (kick failed)
A—36,500

	SMU	Bay
First downs	23	19
Rushes-yards	29-98	66-224
Passing yards	225	095
Return yards	5	26
Passes	32-43-1	8-16-1
Punts	4-34	5-40
Fumbles-lost	5-5	4-4
Penalties-yards	3-34	7-84

75TH WORLD SERIES

Dodgers-Yankee box

WORLD SERIES GAME FOUR

LOS ANGELES	ab	r	h	bi	NEW YORK	ab	r	h	i
Lopes 2b	4	1	0	0	Blair cf	4	1	2	0
Russell ss	5	0	2	0	Rivers ph	1	0	0	0
Smith rf	4	1	1	3	White lf	3	2	1	0
Garvey 1b	4	0	0	0	Munson c	3	1	2	1
Cey 3b	4	0	1	0	Jacksn dh	4	0	2	1
Baker lf	4	0	0	0	Piniella rf	5	0	1	1
Mondy dh	2	0	1	0	Nettles 3b	4	0	0	0
North cf	4	0	0	0	Chmbls 1b	4	0	0	0
Yeager c	3	1	1	0	Stanley 2b	3	0	0	0
Davalli ph	1	0	0	0	Spener ph	1	0	0	0
Grote c	0	0	0	0	Doyle 2b	0	0	0	0
					Dent ss	4	0	1	0
Total	35	3	6	3	Total	36	4	9	3

LA	000	030	000	0— 3
NY	000	002	010	1— 4

Two out when winning run scored
E—Russell. DP—New York 1. LOB— Los Angeles 7, New York 8. 2B—Yeager, Munson. HR—Smith (1). SB—Garvey, Munson. S—White.

	IP	H	R	ER	BB	SO
Los Angeles						
John	7	6	3	2	2	2
Forster	1-3	1	0	0	0	0
Welch L,0-1	2 1-3	2	1	1	1	3
New York						
Figueroa	5	4	3	3	4	2
Tidrow	3	2	0	0	0	4
Gossage W,1-0	2	0	0	0	1	2

HBP—Jackson (by Forster). T—3:17. A—56,445.

Rice ambushes Froggies behind Hertel's passing

FORT WORTH, Texas (AP) — Randy Hertel rifled three touchdown passes and Rice safety Mike Downs contributed three interceptions Saturday as the Owls ambushed Texas Christian, 21-14, in a Southwest Conference football game.

Hertel, a sophmore, winged scoring shots two, 32 and 41 yards and the lowly Owls severed a four-game losing streak and provided rookie Rice Coach Ray Alborn his first victory.

TCU, 1-4, got a 100-yard kickoff return from Phillip Epps to open the second half, but Horned Frog miscues wrecked the home opener for a sparse crowd of 14,433.

TCU committed eight turnovers, including the triple skyjacking effort by Downs. The sophomore free safety intercepted Frog quarterback Steve Bayuk once in the end zone, agains at the Owls' six and finally at the Rice 40.

Don Parrish stole a fourth TCU pass in the end zone after Bayuk had driven the Frogs to the 15 before halftime.

Epps' kickoff return set a stadium record and permitted the Frogs to erase a 14-7 Rice lead. He took the kick two yards deep in the end zone and blazed untouched to the Rice goal.

BAYUK GUIDED TCU 68 yards in 14 plays and scored himself from the four to stake TCU to a 7-0 lead in the first quarter. After a critical pass interference ruling, Hertel tossed a two-yard TD pass to Robert Hubble.

Hertel spotted Earl Cooper alone at the TCU 27 in the second period and the swift tailback took the pass, broke a tackle and swept across the goal. A bulls-eye 41-yard pass to David Houser at the goal gave Rice the tie-breaking touchdown.

The opportunist Owls pounced on

Continued on 3B

Rice	0	14 7 0—21
TCU	7	0 7 0—14

TCU—Bayuk 4 run (Porter kick)
RICE—Hubble 2 pass from Hertel (Hanson kick)
RICE—Cooper 32 pass from Hertel (Hanson kick)
TCU—Epps 100 kickoff return (Porter kick)
RICE—Houser 41 pass from Hertel (Hanson)
A—14,433

	Rice	TCU
First downs	21	17
Rushes-yards	54-154	42-130
Passing yards	240	28
Return yards	38	42
Passes	28-16-1	25-12-4
Punts	6-38	6-47
Fumbles-lost	5-4	4-4
Penalties-yards	7-69	8-92

How top 10 teams fared

1. Oklahoma slipped past Big Eight foe Kansas, 17-16.

2. Southern Cal vs. Arizona State, late

3. Arkansas had an open date.

- (tie) Penn State also had an open date.

5. Michigan was upset by Michigan State, 24-15.

6. Texas A&M was shut out by Houston by 33-0.

7. Alabama defeated a stubborn Florida team, 23-12.

8. Nebraska rolled to an easy 48-14 win over Kansas State.

9. Pittsburgh dropped a 26-17 decision to Notre Dame.

10. Maryland came from behind to earn a 24-9 win over Syracuse.

Sooners lucky to escape with 17-16 win over KU

LAWRENCE, Kan. (AP) — Billy Sims rushed for 192 yards, pumping life into an Oklahoma offense weakened by injuries, and scored the winning touchdown as the No. 1 Sooners subdued stubborn Kansas 17-16 Saturday after the Jayhawks failed twice on a two-point conversion play with 15 seconds left.

KANSAS QUARTERBACK Harry Sydney hit Jimmy Little with a 33-yard pass to the Oklahoma 5. Two plays later he found Harry Murphy with a scoring strike to pull the Jayhawks within one point of the unbeaten and 28-point favorite Sooners.

Kansas tried a pass off a fake extra point attempt but failed, and was given another chance from the 3 when Oklahoma was called offsides.

Sydney's next pass was way off target and the grateful Sooners covered e ensuing onside kickoff

Sims, the Big Eight's leading rusher, zipped 9 yards over right tackle for a touchdown with 14 minutes remaining in the fourth period. That gave the unbeaten Sooners, who had been averaging more than 45 points per game, their second touchdown of the day.

Oklahoma's Freddie Nixon fumbled a punt moments later, but the defense pushed Kansas back 2 yards in the next three plays and the Jayhawks, 1-5, were forced to settle for Mike Hubach's 28-yard field goal.

KANSAS LOST four fumbles, had a punt partially blocked and saw cornerback Leroy Irvin drop three possible interceptions, but still trailed the unbeaten Sooners only 10-7 at halftime.

Sophomore J. C. Watts, replacing Lott, fired a 52-yard touchdown pass in the first quarter and engineered a medium range drive to set up an 18-yard field goal by Uwe von Schamann.

But the Oklahoma offense sputtered the rest of the day as Kansas made a game of it and pulled to within three points on Bobby Barrow's 4-yard touchdown run in the second quarter.

Oklahoma	10	0	0	7—17
Kansas	0	7	0	9—16

Okl—FG von Schamann 18
Okl—Nixon 52 pass from Watts (von Schamann kick)
Kan—Barrow 4 run (Hubach kick)
Okl—Simms 9 run (von Schamann kick)
Kan—FG Hubach 28
Kan—Murphy 5 pass from Sydney (pass failed)
A—43,490

	Oklahoma	Kansas
First downs	25	11
Rushes-yards	68-356	53-194
Passing yards	93	63
Return yards	6	14
Passes	5-14-2	4-12-1
Punts	3-33	6-38
Fumbles-lost	5-3	6-4
Penalties-yards	7-75	3-29

INDIVIDUAL LEADERS

RUSHING—Oklahoma, Sims 30-192, Overstreet 14-69, Watts 12-33. Kansas, Sydney 24-100, Wagoner 6-45, Higgins 12-21.

PASSING—Oklahoma, Watts 5-14-2-93, Kansas, Sydney 4-10-0-63, vClinton 0-2-1.

RECEIVING—Oklahoma, Nixon 3-76, Kimball 1-16. Kansas, Little 1-33, Murphy 2-32.

Miller, Sorley lead Nebraska over K-State

LINCOLN, Neb. (AP) — Quarterback Tom Sorley of Big Spring, Tex., ran for one touchdown and passed to Midland's Junior Miller and Kenny Brown for two others and No. 8 Nebraska used a third quarter explosion to bury Kansas State 48-14 in a Big Eight Conference football game Saturday.

Despite a scoreless first period Nebraska totally dominated the Wildcats statistically. Although he didn't score, I-back I.M. Hipp gained 183 yards on 26 carries.

The Cornhuskers scored early in the second quarter when Sorley scored from the 1 to cap the 74-yard drive. Sorley hit Miller with a 54-yard touchdown pass midway through the period.

But Kansas State Quarterback Dan Manucci, sacked five times in the first half, bounced back with an 87-yard scoring pass to Eugene Goodlow that narrowed Nebraska's halftime lead to 14-7.

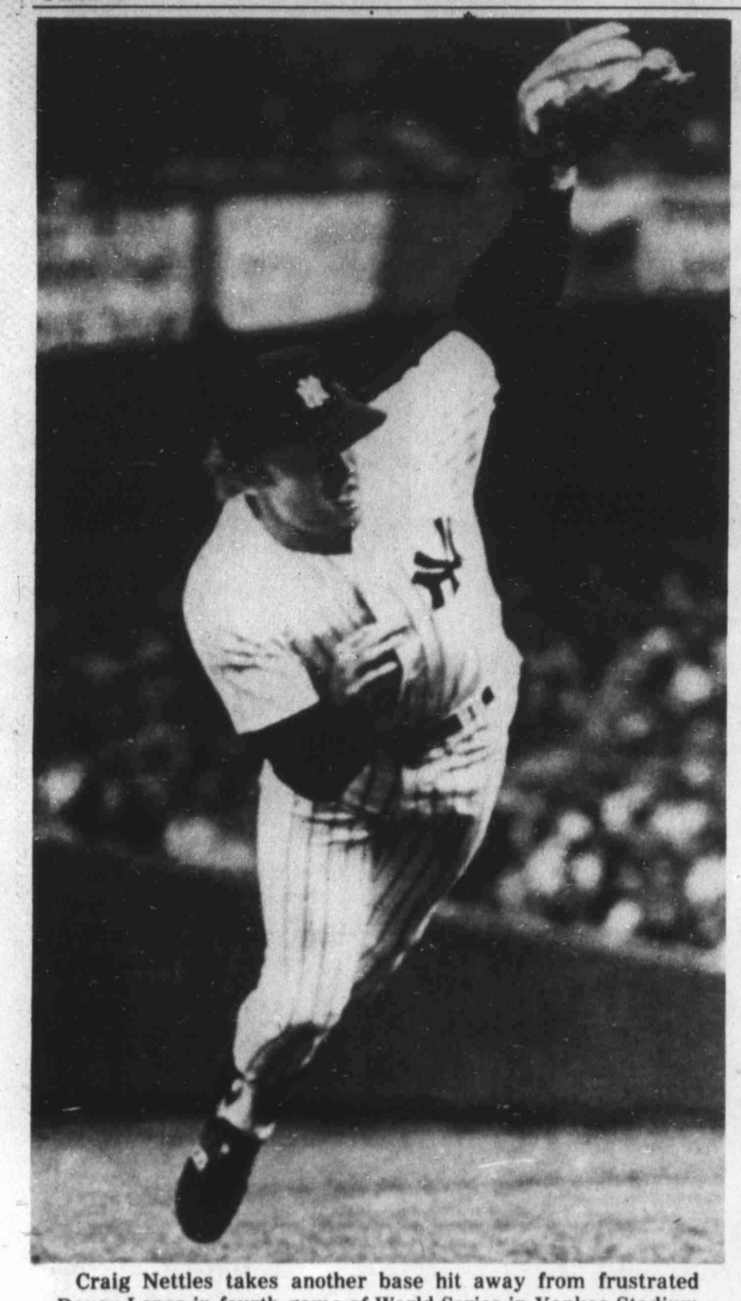
The Cornhuskers took charge in the second half, scoring twice in the first 59 seconds of the third period. Rick Berns plunged 4 yards to score just 46 seconds into the period. When Kansas State fumbled on the ensuing series, Sorley hit Brown with a 33-yard touchdown pass.

Andra Franklin scored from the 19 to boost Nebraska a 35-7 lead after three quarters.

Jim Miller took a 6-yard scoring pass from Manucci to wrap up Kansas State's scoring in the fourth quarter.

Brown scored from the 18 and Jim Kotera from the 6 to cap Nebraska's scoring.

DARRYL ROGERS, Michigan State football coach, is given victory ride by his players following 24-15 upset victory over Michigan Saturday in Ann Arbor, Mich. Leory McGee (22) has wide grin on face after victory. Related story, 5B. (AP Laserphoto).



Craig Nettles takes another base hit away from frustrated Davey Lopes in fourth game of World Series in Yankee Stadium Saturday afternoon as New York won, 4-3 in 10 innings. (AP Laserphoto).

Lou listens to Jackson's advice

NEW YORK (AP) — Reggie Jackson told Lou Piniella to lay off Bob Welch's high fast ball. Piniella didn't, and, as a result, the World Series is tied at two games apiece after still another getting-to-be-a-habit comeback by the New York Yankees.

Piniella was the first batter faced by Welch, the Los Angeles Dodgers' smoke-throwing 21-year-old rookie sensation. Welch entered Saturday's game in the eighth inning with the score tied 3-3.

The count went to 3-1 and Piniella swung at the next four pitches, fouling off three before popping out.

"I thought I had some good swings against him," said Piniella, the Yankees' leading hitter during the regular season with a .314 average. "But after I popped out, Reggie told me not to swing at the high pitches."

So what did Piniella do when he came up again in the bottom of the 10th after Welch walked Roy White with one out and Jackson drilled a two-out single through the right side?

THE FIRST pitch was a high fast ball out of the strike zone. Piniella swung and missed.

"It was a bad pitch, up and in," he said. "Welch throws as hard as anybody in baseball and I was anxious, but I'm an anxious hitter. Pitchers don't have to throw me too many strikes."

Welch's next — and last — pitch was another high fast ball, also out of the strike zone. Piniella swung ... and didn't miss.

"It was out over the plate and I tomahawked it," he said. "I'm a contact hitter, and I don't necessarily have to swing at a strike."

The ball landed in center field, scoring White and scalping the Dodgers 4-3 to even what has suddenly become an exciting World Series.

Piniella shrugged off his game-winning single.

"The key was not my base hit," he said, "but the way the pitchers kept the game within reach after we fell behind 3-0. It was Dick Tidrow holding them right there and Goose (Rich Gossage) shutting them out after that."

What helped get the Yankees into the 10th after Reggie Smith put the Dodgers on top with a three-run homer in the fifth inning was a key play in New York's two-run sixth.

WITH TWO runners aboard, Los Angeles shortstop Bill Russell dropped a line drive by Piniella. He stepped on second to force Jackson but his throw to first hit Jackson and rolled away, allowing Thurman Munson to score from second with a key run.

"When Lou hit the ball, it looked like a hit to me, so my instinct was to go to second," Jackson said. "Then, when it hit Russell's glove, my instinct was to go back to first. Then he dropped it and I didn't know where to go. He threw it right in my road and I just froze. No, I didn't throw my hip out."

Oh? A television replay showed otherwise, according to NBC-TV announcer Joe Garagiola.

"I won't comment any further," Jackson said. "I'm not stupid enough to talk about it. It hit me on the thigh. What else do you want to talk about?"

HOW ABOUT the Gossage-Welch duel?

"I was just thinking, 'You're not gonna beat me; you're too young, or something,'" said Gossage, who pitched two hitless innings and won the duel of hard-throwing right-handed relievers. "The kid's a hell of a competitor and he has a lot of composure but I'm a battler, too, and I knew somebody had to take me deep to beat me.

"Sure, it was a personal battle between me and him because we throw a lot alike, I guess. Being the Dodgers, it's a great satisfaction pitching against them. Maybe Dodger blue is helping us. Maybe somebody wants to make it exciting."

Dodgers fume over call in 6th inning Saturday

NEW YORK (AP) — The Los Angeles Dodgers remained incensed long after the game after umpire's call in the sixth inning permitted a New York Yankees run to score.

The Yankees went on to win 4-3 in the 10th inning Saturday to square the best-of-seven Series at two victories apiece.

Lou Piniella drove in the winning run with a single off a high fastball from 21-year-old Bob Welch, the hero of the second game. Piniella also was involved in the sixth-inning fracas but it was a hip movement by Reggie Jackson that brought the complaints.

JACKSON HAD driven in Roy White and was on first base with Thurman Munson at second when Piniella lined to shortstop Bill Russell near second base. Russell dropped the ball and then tagged second, automatically forcing Jackson.

His throw to first trying for the double play bounced off Jackson and by the time it was recovered, Munson had scored.

First baseman Steve Garvey said, "Jackson was squared up toward second base and when the ball came, he shifted his leg over and deflected it. (Umpire Frank) Pulli said it was a judgement call and he felt, in his judgement, Reggie was going back to first. That's a tough way to lose."

Manager Tom Lasorda, still vehement, declared, "He can't go back to first. He's out. He stood there. He's got to get out of the way. He's got to move out and give the man the right to throw the ball. What he did was interference. It made the difference of us going into the eighth leading 3-1 instead of 3-2. That's how much it meant.

"I never saw a play like that. Somebody told me that on TV it showed he moved his hip," said Lasorda. "All he's got to do is get out of the way of the ball. It should have been called a double play."

Tommy John, who pitched seven innings for the Dodgers, said, "I thought Reggie moved into the ball. If so, it was a very smart play, since he got away with it."

THURMAN MUNSON doubled down the third-base line in the eighth, driving home Paul Blair with the tying run.

Third baseman Ron Cey was asked if he thought he should have been playing closer to the bag. He replied, "I was playing where they told me to play. You can bet if I'm not where they want me, they'll tell me about it. It was just a bad pitch Terry Forster threw and he says so himself."

Many of the disappointed Dodgers remained virtually in hiding in their shower room long after the game ended and others refused comment. There was one woman reporter in the dressing room, allowed under court order in New York.

Burt Hooton, the right-hander who starts today's second game, said: "This makes it a best two-out of three Series. We have the two home games, and if I can win here, we should win the Series."

Home run swing is captured as Los Angeles' Reggie Smith powers three-run shot in the fifth inning in 75th World Series in New York Saturday. It wasn't enough as the Yankees won, 4-3, however. (AP Laserphoto).

Davis guides Cougars to shocker over A&M

HOUSTON (AP) — Houston quarterback Danny Davis, showing some of his 1976 magic, threw two touchdown passes and Randy Love ran for two more in a 33-point first half to lead the 17th-ranked Cougars to a shocking 33-0 upset of sixth-ranked Texas A&M Saturday night.

Davis, who led the Cougars to the Southwest Conference championship as a brash young sophomore two years ago, hit Willis Adams on a 10-yard touchdown pass in the first quarter and flipped 43 yards to Eric Herring in the second period as the Cougars riddled the once-proud Aggie defense.

The Texas A&M defense, which entered the game No. 2 nationally in total defense, also yielded touchdown runs of 1 and 16 yards to Love and a 12-yard run by Emmett King, No. 2 rusher in the SWC.

A&M, 4-1, had given up only one touchdown in four previous games. It was the first time the Aggies had been shut out since a 20-0 loss to Southern Cal in the 1975 Liberty Bowl.

Aggie quarterback Mike Mosley contributed to the downfall by losing three fumbles and throwing one interception in the first half. The Cougars produced touchdowns on all four turnovers.

The Aggies drove to the Houston 1-yard-line after the second-half kickoff, but Mosley's fourth fumble of the game stopped A&M's best scoring chance of the game.

Houston's defensive unit got into the act by forcing Mosley into his nightmarish performance. Two of Mosley's fumbles gave the Cougars possession at the A&M 10 and 44 yard lines.

Aggie running back Curtis Dickey, the No. 3 rusher in the nation, was held to 25 yards on 14 carries by the swarming UH defenders. Mosley was held to minus 16 yards on 17 carries.

Houston, 4-1, now shares the SWC lead with Texas and Southern Methodist, all with 2-0 records.

Love finished as the game's leading rusher with 97 yards on 17 carries, including 78 yards in the first half. Davis Brothers led the Aggies with 61 yards on 15 carries.

Davis, who sat out the 1977 season with a shoulder separation, completed 6 of 14 passes for 95 yards and two touchdowns. He rushed eight times for 26 yards.

Mosley fumbled the first two times A&M had possession, and the alert UH defense turned the miscues into a 14-0 lead.

Fred Snell separated Mosley from the ball and Grady Ebensberger recovered the first fumble to set up Davis' scoring strike to Adams.

Moments later, Houston's Hosea Taylor hit Mosley and the ball squirted into the grasp of Alton Harvey at the A&M 10.

Love ran four straight times, scoring from the 1 on his final plunge for a 14-0 UH lead.

Houston went ahead 21-0 with 9:52 to play in the half with a 67-yard drive. Love gained 65 yards in the drive, including his 16-yard touchdown run.

Houston linebacker David Hodge intercepted Mosley's pass at the Aggie 44 to set up Davis' third-down scoring aerial to Herring, who caught the ball at the 1 and backpedaled into the end zone.

Texas A&M	0	0	0	0	0
Houston	14	19	0	0	33

UH-Adams 10 pass from Davis (Hatfield kick)
UH—Love 1 run (Hatfield kick)
UH—Love 16 run (Hatfield kick)
UH—Herring 43 pass from Davis (kick blocked)
UH—King 12 run (pass failed)
A—52,156

	A&M	UH
First downs	13	20
Rushes-yards	62-110	56-227
Passing yards	77	104
Return yards	16	0
Passes	3-9-1	9-19-0
Punts	8-38	7-42
Fumbles-lost	4-4	2-3
Penalties-yards	6-53	7-66

TV sports

TODAY

PRO FOOTBALL—Cleveland vs. Pittsburgh, noon, KMID-TV.

Dallas vs. St. Louis, 1 p.m., KOSA-TV.

Los Angeles vs. Minnesota, 3:30 p.m., KOSA-TV.

BASEBALL—Los Angeles vs. New York, 3:30 p.m., KMID-TV.

MONDAY

PRO FOOTBALL—Chicago vs. Denver, 8 p.m., KMOM-TV.

Georgia tops LSU, 24-17

BATON ROUGE, La. (AP) — Freshman Lindsay Scott raced a kickoff back 99 yards and Georgia capitalized on two second-half turnovers Saturday night to upset 11th-ranked Louisiana State 24-17 in a Southeastern Conference contest.

Trailing 17-7 at halftime, Georgia struck when Scott fielded the opening second half kickoff at his own one and threaded his way to the sideline and scored the longest touchdown on a kickoff return in Georgia history.

The defeat was the first in five outings for LSU. The Tigers fell to 1-1 in the SEC while Georgia, 4-1, raised its conference record to 2-0.

SMU rallies

(Continued from 1-B)

John Simmons and SMU drew to within 21-19.

On Baylor's next possession Smith made a bad pitch which was recovered by linebacker Gordon McAdams on the Bear eight.

Eddie Garcia kicked a 20-yard field goal to put SMU ahead 22-21.

Randy Katz recovered another Bear bobble on Baylor's 13 to set up Ford's fourth scoring pass to Tolbert.

THE BEARS had one more chance.

Tommy Tabor charged through to block Luke Prestridge's punt on the SMU 32. The Bears worked it to the SMU nine where Smith's desperation pass was intercepted by Hill.

World Series enters fifth game

(Continued from 1-B)

Thurman Munson.

With the game tied at 3-3, Rich Gossage reliever for New York and the game settled into a classic duel between two fastball artists.

IN THE 10th, White battled back from an 0-2 count to work out a walk from Welch with one out. Munson then popped up, but Reggie Jackson — victimized by Welch on a game-ending strikeout in the second Series contest — delivered a single to right, sending White to second.

That brought up Piniella and, on a one-strike pitch, the veteran Yankee hit a single to center that sent White scampering home with the winning run and insured a return trip to California for Game 6 of this Series.

MUNSON DOUBLED home New York's tying run in the eighth inning before Welch came out of the Dodgers bullpen to preserve the deadlock.

Los Angeles starter Tommy John was nursing a 3-2 lead built on Reggie Smith's three-run homer when Paul Blair opened the Yankees eighth with a single.

Terry Forster relieved John, and White sacrificed the runner to second. That brought up Munson, captain of the Yankees. Forster got ahead on the count at 0-2, one of the strikes a foul ball that smashed off Munson's leg so hard that it rolled all the way to shortstop. On the next pitch, Munson doubled inside third base for the tying run.

After Jackson was hit by a pitch, the 21-year-old Welch — who had saved the Dodgers' second-game victory — relieved again. He retired Piniella on a pop fly, then struck out Graig Nettles, ending the rally.

THEN THE game settled down to a duel of recievers with Welch of the Dodgers and Gossage of the Yankees matching fastballs as the contest spun into extra innings.

The Yankees got back in the game with two runs in the sixth against John, helped along by a bizarre play involving Dodgers shortstop Bill Russell.

With one out, White singled to center and Munson walked on a 3-2 pitch. Jackson followed with a single to right, scoring White with the first New York run. The hit extended Jackson's streak of driving in at least one run to eight consecutive World Series games, tying the all-time record held by Lou Gehrig.

Then, with the score 3-1 and runners at first and second, Piniella lined a shot near second base. Russell gloved the ball for a moment and it seemed like a sure double play with Munson trapped off second.

BUT RUSSELL dropped the ball. He recovered in time to tep on second, forcing Jackson, and it seemed he still might complete the double play with a throw to first.

Tech overcomes Wright's aerial circus, 36-23

ALBUQUERQUE, N.M. (AP) — Rugged Fullback James Hadnot rushed for a Texas Tech record 268 yards Saturday night and scored his club's final touchdown to ice a 36-23 non-conference college football victory over New Mexico.

Hadnot, who was converted frmm tight end to fullback this year but still wears No. 86, bulled his way to the record on 26 carries. The old standard was 206 yards on 27 totes set in 1942 by Walter Schlinkmore against Creighton.

The heroics of the hard-running 6-foot-2, 24-pound junior overshadowed a school record passing performance by New Mexico aerial wizard Brad Wright. Wright snapped Lobo marks for passing yards in a game with 452 and completions on a 28-of-49 performance.

Texas Tech scored on its first two possessions in the game to grab a quick 14-0 lead and never trailed in the contest as the Red Raiders broke a two-game losing streak and improved their 1978 record to 2-3.

After building a 28-10 halftime lead, Texas Tech had to withstand a strong New Mexico comeback in the final two periods. Wright, who had thrown for one touchdown in the second quarter, cranked up and hit Ricky Martin on bombs of 58 and 80 yards in the second half to pull the Lobos within five points at 28-23.

Hadnot ended the New Mexico challenge with 1:41 to go in the contest when he bolted 42 yards to the end zone for his only score of the night and the game's final points to drop New Mexico to 3-3 for the season.

Texas Tech	14	14	8	8	36
New Mexico	0	10	6	7	23

TT—Reeves 15 run (Adams kick)
TT—Reeves 5 run (Adams kick)
NM—Mark Williams 32 pass from Wright (Moore kick)
NM—FG Moore 47
TT—Weatherall 80 run (Adams kick)
TT—Turner 42 pass from Reeves (Adams kick)
NM—Martin 58 pass from Wright (kick failed)
NM—Martin 80 pass from Wright (Moore kick)
TT—Hadnot 42 run (Weatherall run)
A—23,167

	Texas Tech	New Mexico
First downs	18	26
Rushes-yards	56-418	35-127
Passing yards	119	452
Return yards	3	41
Passes	6-13-0	28-49-2
Punts	9-38	6-37
Fumbles-lost	0-0	4-1
Penalties-yards	9-98	5-49

Cowboys face Cardinals today

ST. LOUIS (AP) — If recent history is an indicator, the Dallas Cowboys-St. Louis Cardinals rematch in Busch Stadium Sunday may be worth the price of admission after all.

A sellout crowd, the Cards' second of the year, will watch St. Louis challenge the defending Super Bowl champions in the role of a David vs. Goliath as one of two teams in the National Football League still winless.

Serving as a magnet for the apparent mismatch is the Cards' ability to match Dallas victory for victory in the National Conference East rivalry since 1973.

A year ago, the Cowboys prevailed here 30-24. But later in Dallas, after grabbing a 14-3 advantage at halftime, Coach Tom Landry's title-bound team bowed 24-17.

Jim Hart's 3-yard touchdown flip to tight end Jackie Smith provided St. Louis' winning points in the fourth quarter. Since then, the Cards have won only one game. And Smith, a 16-year vet, has come out of retirement to don a Cowboys uniform.

Still, a contest three weeks ago in which St. Louis took a 10-0 lead before submitting 21-12 has Cards fans hopeful and Landry nervous.

A St. Louis NFL low of 65 in six games notwithstanding, Landry has declared that St. Louis "is a team capable of putting points on the board."

"They also have a good offensive line when it's healthy," he observes. "It doesn't make any difference what their record is.

Midland High's Gene Tuttle stretches and strains to a seventh place finish in the Midland Invitational Cross Country meet here Saturday. El Paso High won the event while Midland High, the defending champ, finished fifth. Midland Lee finished seventh. (Staff photo by Mike Kardos).

El Paso wins cross-country title

By TERRY WILLIAMSON

Abilene Cooper's David Nelson and Midland Lee's Steve Hooper produced a 1-2 sweep in the annual Midland Invitational Cross Country Meet at Midland College Saturday morning, and it is getting to be a habit.

Nelson posted a new course record of nine minutes and 29 seconds to win his third straight cross country title this year. Hooper was second with a 9:33 and that marked the third time he has finished in that postition to Nelson.

However, Hooper knocked off six seconds in the difference from the last time the two faced each other last week in San Angelo. Hooper is now in striking distance with the four second margin, and they will face each other again next week in Lubbock.

"When I saw the huge field that was going to be here with the El Paso schools and all, I thought things might turn out different this week, but Steve and I turned out to be battling again. It's getting to be a weekly thing," Nelson said.

"David and I both want to go to state, and I know that if I can keep his pace, we will both be there. That's what we are working for right now," Hooper noted.

While the District 5-4A duo was putting on the show, powerful El Paso High was winning the team championship with 49 points. El Paso Coronado was a distant second with 94 while AAA Brownfield was third with 99 points. Defending champion Midland High dropped to fifth this year with 131 points and Lee was seventh with 171 points.

El Paso was led by third place finisher Rickey Pena with a 9:40 while Odessa High's Johnny Herrera was fourth with a 9:45. Gene Tuttle led the MHS cause with a seventh place 9:49. The red head was third last week to Nelson and Hooper. Bob Glenn managed a tenth place 9:54 for the Bulldogs.

In the girls' division, it was all El Paso High. Patsy Norman, who won the state cross country crown last year as a freshman, took top honors with an 11:36. Norman defeated teammate Margarita Solorzano for first place as Solorzano posted an 11:52. Solorzano had defeated Norman in two previous races this year, so this was Norman's first win of the year.

El Paso posted 36 points to win the girls' title while EP Coronado was second with 55. Midland High was fifth with 148 points after placing second last week. Brownfield's Elizabeth Holquin was third with a 12:29 while Big Spring's Donna Dilibuto was fourth with a 12:36.

Midland High's Donna Repman, a winner last week, fell to eighth with a 12:45 and Lee's Holly Franz managed a 17th place finish with a 13:23.

Odessa High broke El Paso's victory string in the junior varsity run with a 39 point effort for first place and San Angelo was second with 55 followed by Brownfield, 61; and Odessa Permian, 80.

In the race of JV individuals, however, it was a big surprise as Snyder's Robert Schooler posted a 10:28 to win his first school related event ever. Schooler, a sophomore, has won titles before with the West Texas Running Club, but had never won a title for Snyder High.

Dale Herron of Odessa High placed second with a 10:40, 12 seconds behind Schooler, while Kevin Grenier of San Angelo was third with a 10:40 also. Permian's Steve Forbes placed fourth with a 10:43.

Midland High Results

Boys' Varsity: 7. Gene Tuttle, 9:49; 10. Bob Glenn, 9:54; 33. William Hopper, 10:26; 35. Kevin Yates, 10:27; 45. Willie Ross, 10:44; 49. Jack Rodriquez, 10:51; 55. Edward Sotelo, 11:04.

Girls' Varsity: 8. Donna Repman, 12:45; 23. Lisa Harrison, 13:41; 35. Eleanor Scott, 14:48; 40. Angela Ochoa, 15:06; 42. Erica Plumlee, 15:18

Junior Varsity: 31. Rudy Lara, 32. Kevin Wood, 38. Scott Wallace, 47. Scott Doris.

Midland Lee Results

Boys' Varsity: 2. Steve Hooper, 9:33; 34. Keevin Harper, 10:27; 36. Jeff Ryan, 10:29; 47. Robert Samuels, 10:45; 52. David Harwell, 10:55; 56. Alan Jones, 11:05.

Girls Varsity: 17. Holly Franz, 13:23.

Junior Varsity: 24. Ramon Molinar, 11:20.

Rice wins

(Continued from 1-B)

four TCU fumbles, and probably none loomed larger than a recovery by Paul Garcia at the TCU 42 in the final minutes of play. It torpedoed the Frogs' hopes of a comeback touchdown.

The Owls had five turnovers themselves, but Hertel brought them back each time with a superb passing performance. He hit 16 of 28 passes for 240 yards and the three touchdowns and had but one interception.

Houser was the leading Rice target, collecting four for 77 yards and the one touchdown. Laney Royal caught three for 39 yards and Cooper took his one reception for 32 yards and a touchdown.

Cooper also led the Owl ground attack with 55 yards on 19 carries.

For the Frogs, Jimmy Allen picked up 76 yards on 17 carries while Bayuk was 12-for-25 and 128 yards through the air. Michael Milton was the leading TCU receiver, catching five for 92 yards.

Rookie paces Nets win

PISCATAWAY, N.J. (AP) — Rookie guard Winford Boynes scored 20 points and the New Jersey Nets held off a furious Los Angeles comeback, defeating the Lakers 102-100 in National Basketball Association action Saturday.

The Nets held a 100-80 lead midway through the fourth quarter, when the Lakers, erratic offensively for most of the night, scored 16 straight points to cut the lead to four with less than two minutes to play. Ron Boone scored eight points in that stretch before George Johnson hit two free throws to give the Nets a 102-96 lead.

Adrian Dantley then hit two free throws and Norm Nixon hit a jumper to cut the lead to two with 15 seconds remaining, but New Jersey guard John Williamson then ran out the clock.

Long Beach rips Utah St.

LOGAN, Utah (AP) — Long Beach State quarterback Paul McGaffigan nailed Vernon Henry on a 70-yard touchdown pass play to highlight Long Beach's 33-17 Pacific Coast Athletic Association football victory Saturday over formerly undefeated Utah State.

The victory gives Loong Beach a 1-1 PCAA record and a 3-2 overall mark, while USU is 2-1 in the league and 5-1 overall.

USU tailback Rick Parros, the school record holder for most yards gained in a game at 252, gave up three first-half fumbles, each of which led to a Long Beach score.

Midland's Spears stars during swimming meet

Paced by Clay Spears' gold medal finishes in the 200 yard individual medley and the 500 yard free style, the Midland High boys swim team earned a second place finish behind Odessa Permian in the Odessa Invitational Swim Meet Saturday.

Midland High also swam to second behind Permian in the girls team race.

Permian nabbed the boys title with 275 points while Midland was right behind with 268. Abilene Cooper was third with 211 points. Midland Lee earned 45 points for an eighth place finish.

The Permian girls had a much larger victory margin than their male counterparts, piling up 298 points to Midland's 231. San Angelo Central was third with 171 points and Midland Lee's 123 points were good enough for fifth place.

Spears won the 200 individual medley with a time of 2:12.24 and captured the 500 yard free style with a 5:17.05 clocking.

Lee coach David Whytlaw wasn't too upset at his squad's poor showing. "Well, we didn't have a full squad for this one since it's been homecoming week and all. This isn't really indicative of the kind of team we'll have."

Midland High and Midland Lee results from Saturday's Odessa Invitational Swim Meet:

Boys results

200 medley relay: 2. MHS "A", 1:51.8; 7. Lee "A", 1:58.74; 8. MHS "B" 2:01.6; 11. MHS "C" 2:07.25; 12. Lee "B" 2:09.25.

200 free style: 7. Buddy Goodgame (MHS), 2:11.9; 11. Mike Harwell (Lee), 2:20.97.

200 individual medley: 1. Clay Spears (MHS), 2:12.24; 5. Wade Vinson (MHS), 2:29.82; 9. Jimmy O'Neill (MHS), 2:32.55.

50 yard freestyle: 2. Mitch Haynie (MHS), 23.75; 10. John Rathjen (Lee), 26.51; 11. Lee Hill (Lee), 26.98; 12. Lauro Bond (MHS), 27.32.

1 meter diving: 1. Ricky Morton (MHS); 2. Mark Krauss (MHS); 4. Randy Prets (MHS); 5. Ronnie Black (Lee); 8. Larry Armendariez (Lee).

100 fly: 4. Craig Carley (MHS), 1:05.9; 5. Buddy Goodgame (MHS), 1:05.32; 7. David Johnson (MHS), 1:07.67.

100 freestyle: 6. Barry Clempneur (MHS), 56.77; 9. John Rathjen (Lee), 57.85.

500 freestyle: 1. Clay Spears (MHS), 5:17.05; 10. Jimmy O'Neill (MHS), 6:25.35.

100 backstroke: 6. Kevin Cook (MHS), 1:09.22; 10. Lee Hill (Lee), 1:13.09; 12. David Domino (MHS), 1:17.68.

100 breast stroke: 2. Tony Gunn (MHS), 1:12.24; 9. Wade Vinson (MHS), 1:17.25; 10. David Fishell (Lee), 1:17.32.

400 freestyle relay: 3. MHS "A", 3:40.50; 7. MHS "B", 3:55.30; 9. MHS "C", 4:02.30; 10. MHS "D", 4:14.6.

Girls results

200 medley relay: 3. MHS "A", 2:10.8; 5. Lee "A", 2:20.80; 6. MHS "B", 2:21.0; 8. Lee "B", 2:47.92.

200 freestyle: 2. Holly Franz (Lee), 2:17.30; 10. Jennifer Hunter (MHS), 3:00.7.

200 individual medley: 1. Patty Bruton (Lee), 2:29.84; 3. Lorry Anne Coon (MHS), 2:36.96; 5. Donna Hunter (MHS), 2:56.28.

50 freestyle: 7. Kerry Crowley (Lee), 30.97; 11. Sara Stone (Lee), 33.72.

1 meter diving: 2. Karen Fidler (Lee); 4. Kay Lea White (MHS); 8. Karen Garner (MHS); 9. Christie Holland (MHS).

100 fly: 1. Patty Bruton (Lee), 1:08.22; 3. Paula Gordon (MHS), 1:14.28; 7. Theresa Michaels (MHS), 1:31.62.

100 freestyle: 1. Holly Franz (Lee), 1:02.64; 7. Heidi Franz (Lee), 1:07.43.

100 backstroke: 3. Laurie MacCurdy (MHS), 1:11.9; 7. Sheila Hill (MHS), 1:21.8; 11. Sara Stone (Lee), 1:29.26.

100 breast stroke: 2. Chrissie Faller (MHS), 1:21.91; 4. Betty White (MHS), 1:27.98; 11. Suzanne Pare (Lee), 1:41.66.

200 freestyle: 2. Lorry Anne Coon (MHS), 6:25.22; 3. Donna Hunter (MHS), 7:09.62; 5. Jennifer Hunter (MHS), 8:21.6.

400 free relay: 1. MHS "A", 4:10; 5. MHS "B", 10. MHS "C"

Rockets capture win

BOSTON (AP) — Guard Calvin Murphy pumped in 35 points and center Moses Malone added 27 as the Houston Rockets downed the Boston Celtics 114-108 in a National Basketball Association contest Saturday night.

With Murphy hitting from long range, Malone dominated the inside game and led both teams in offensive and defensive rebounds.

The Celtics, who trailed 66-61 at the half, climbed to within one point, 99-98, with seven minutes left in the game, but Murphy and Mike Dunleavy continued their hot shooting to put the game out of reach.

Stanford tops Huskies, 34-31

STANFORD, Calif. (AP) — The Washington Huskies, who depended mostly on their defensive strength through three quarters, got a crucial 40-yard pass completion from Tom Porras in the final minute and beat 18th-ranked Stanford 34-31 as Mike Lansford kicked a 22-yard field goal with 22 seconds remaining Saturday.

Stanford, beaten by a last-minute field goal a week earlier in its Pacific-10 Conference football opener against UCLA, scored two late touchdowns with its big-play offense to pull into a 31-31 tie with Washington's Rose Bowl champions.

The Huskies had come from behind with a 24-point third period which featured a pair of 36-yard interception returns for touchdowns by defensive backs Lance Theoudele and Greg Grimes.

Stanford cut Washington's lead to 31-24 on Steve Dils' second touchdown pass, a 33-yarder to Ken Margerum just before the third quarter ended, and the Cardinals tied the score with 5:03 left in the game as fullback Phil Francis ran six yards to end a 50-yard touchdown drive.

The Cardinals, after an incomplete fourth-down, turned the ball over to Washington with 44 seconds left and quarterback Porras promptly hit wide receiver Keith Richardson who streaked down the left sideline, on the 40-yard completion to the Stanford 11.

After two running plays, Lansford kicked his second field goal of the day to win.

The defending conference champs improved their Pac-10 record to 2-1 and are 3-3 overall. Stanford also is 3-3 for all games.

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EXTRAS AND YOUR LIFESTYLE

When many people look for a home, they search for things they think they need. These are usually features they have seen in homes of friends, relatives, neighbors, and business associates. Most of these items and innovations are of an unusualy or dazzling nature. Some are decorative and some are practical, but they're all eye-catching enough to make people sit up and take notice.

For example, people will come in and excitedly describe all the things they absolutely MUST have. These may include huge planter-room dividers; a balcony; built-in aquarium; or a triple-sided fireplace!

There's nothing wrong with these features. Taken singly, they can do a lot to enhance a home and make it distinctive. But if they were ALL put into one home, the end result might be somewhat shocking!

It's a good idea to look around and see what other people have in their homes. but when it comes to those extra, unusual features, a family should temper their desires and choose only what they really need to fit THEIR lifestyle!

If you have any questions on this subject or any other aspect of real estate, feel free to phone or drop in at DON HARVEY Realtors. 702 Andrews Hwy. Phone 683-5333. We're here to help! Come in for your free copy of "Home for Living" magazine.

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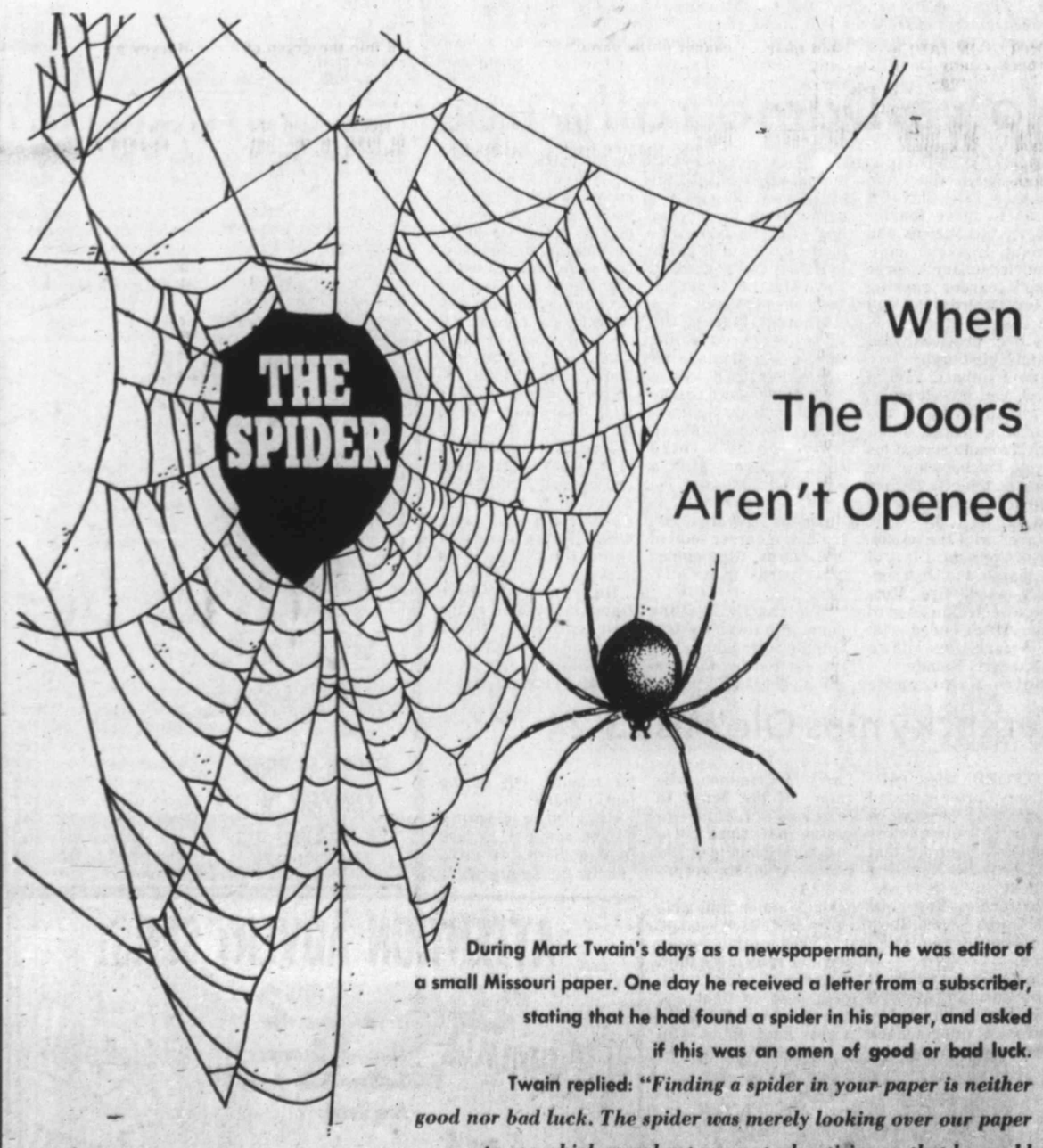

When The Doors Aren't Opened

During Mark Twain's days as a newspaperman, he was editor of a small Missouri paper. One day he received a letter from a subscriber, stating that he had found a spider in his paper, and asked if this was an omen of good or bad luck.

Twain replied: *"Finding a spider in your paper is neither good nor bad luck. The spider was merely looking over our paper to see which merchant was not advertising so that he could go to that store, spin his web across the door, and lead a life of undisturbed peace ever afterward."*

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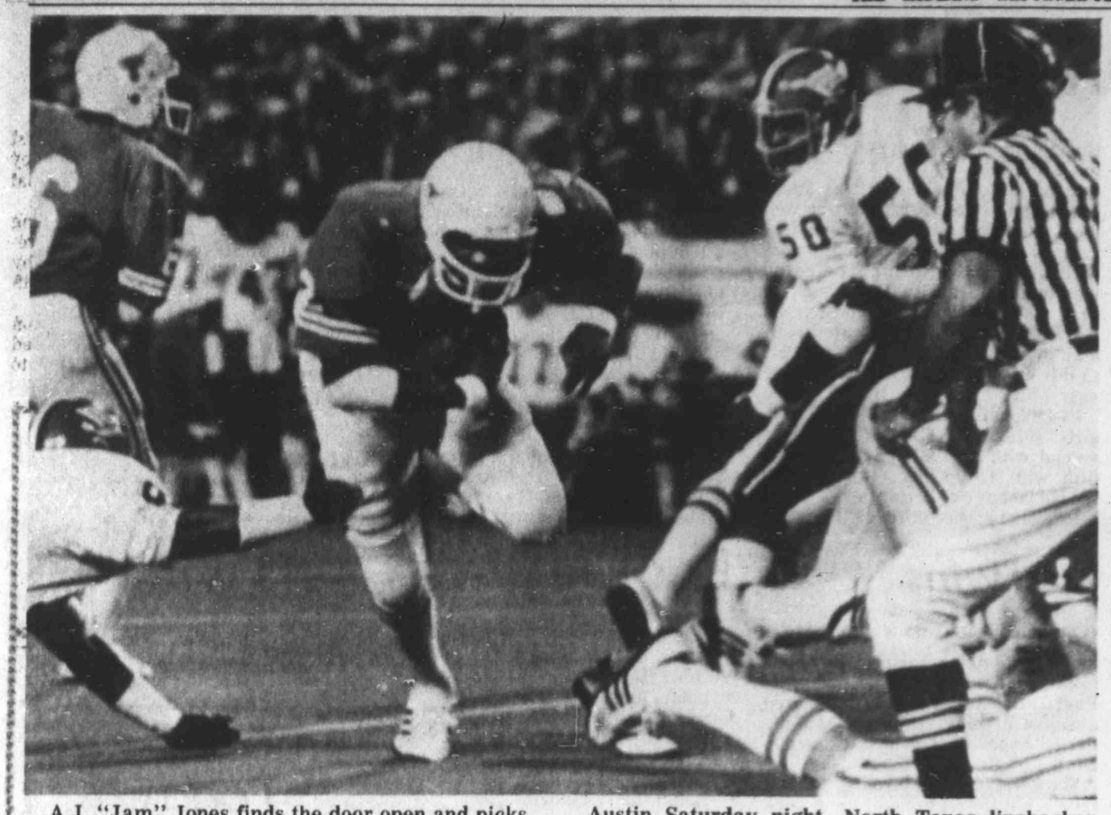

A.J. "Jam" Jones finds the door open and picks up yardage after taking the handoff from Texas quarterback Randy McEachern (6) in second quarter action of their game with North Texas State at Austin Saturday night. North Texas linebacker Burks Washington (50) was in on the tackle. (AP Laserphoto)

Texas struggles by North Texas State

AUSTIN, Texas (AP) — Senior quarterback Randy McEachern calmed down Texas' look-of-the-future backfield Saturday night as the 12th-ranked Longhorns defeated North Texas State 26-16 in an intersectional game.

McEachern entered the game to the boos of the hometown crowd of 63,000 midway of the second quarter after freshman quarterback Donnie Little had fumbled three times. One of the fumbles by Little, starting his first game, stalled a Texas drive at the NTSU 4 in the first quarter.

North Texas quickly drove 96 yards for a touchdown on a 38-yard pass from Jordan Case to Charlie Murray and later took a 9-0 lead.

McEachern completed an 83-yard drive for Texas by handing to A.J. Jones, who scored from the 1. A bad snap out of the end zone and a 41-yard pass from Eachern to Johnny "Lam" Jones with only 17 seconds left in the half gave the Longhorns a 16-9 bulge.

McEachern took Texas 34 yards in the third quarter, with the touchdown coming on his 13-yard pass to Les Studdard.

Case completed a 25-yard throw to one of his pint-sized receivers, Bruce Chambers, setting up a scoring plunge from the 2 by Bernard Jackson, the nation's fourth-leading rusher, on third down.

The Texas defense held North Texas after it had gained a first down at the Texas 3, and a 24-yard field goal by Buddy Hamm was wide. Texas carried the ball across midfield, where Russell Erxleben boomed a 47-yard field goal to clinch the victory.

Erxleben's kick atoned for a poor night in which he dropped a snapback in the end zone for a North Texas safety in the second quarter and got off punts of only 28 and 26 yards.

The victory raised' Texas record to 4-1. North Texas, an independent school near Dallas, is 5-2.

N. Texas St.	7	2	7	0—16
Texas	0	16	7	3—26

NTSU—Murray 38 pass from Case (Hamm kick)
NTSU—Safety (Erxleben fumble snap in end zone)
TEX—Jam Jones 1 run (Erxleben kick)
TEX—Safety (Ball snapped out of end zone)
TEX—Lam Jones 41 pass fro McEachern (Erxleben kick)
TEX—Studdard 13 pass froMcEachern (Erxleben kick)
NTSU—Jackson 2 run (Hamm kick)
TEX—FG Erxleben 17
A—63,000

	NTSU	Texas
First downs	14	22
Rushes-yards	40-30	65-210
Passing yards	165	111
Return yards	18	0
Passes	18-11-1	11- 6-1
Punts	4-31	3-33
Fumbles-lost	2-1	6-3
Penalties-yards	3-29	10-130

Ketelsen gains quarterfinals

Top-seeded Kim Ketelsen advanced to today's quarterfinal round of the men's championship singles division of the Midland Coca-Cola Open tennis tournament with a bye and a pair of easy wins Saturday.

After a first round bye, Ketelsen, a teaching pro from San Angelo, eliminated Midland College's Kevin Jackson in the second round, 6-3, 6-2. In the third round he downed Mike Robertson of Midland, 6-1, 6-3.

Joe Williams, the No. 2 men's seed, also had a first round bye but was forced to default his second round match with Ed Innerarity of Midland. Bob Hilliard, the No. 5 seed from Austin, was also forced to default his first round match to Midland College's Scott Dunn.

Third seeded Joe Don McBeth of West Texas State and sixth seed Pressly Shafer of San Antonio both fell victim to second round upsets. After beating San Angelo's Rene Trevino in the first round, McBeth lost a split set decision to Steve Buck of Abilene, 7-6, 3-6, 6-3. Shafer lost to Pierre DeChaud of Midland, 6-2, 7-5, after beating Brian Folkes 6-3, 6-2 in the first round.

Fourth seeded Paul Nunley of West Texas also stormed into the quarterfinals with three easy outings Saturday. Robert Wessell of Austin defaulted his first round match with Nunley and Nunley blasted Don Daniels of San Antonio, 6-2, 6-1, in the second round. Nunley beat Jay Box of Fort Stockton, 6-1, 6-1, in their third round match.

Midland College player Jose Rivera, the tourney's seventh seed, also came away victorious in his first three matches. Rivera beat West Texas' Stacy Foster, 6-4, 5-7, 6-2, in the first round and then eliminated Ralph Skinner of Hobbs, 6-4, 6-1. In the third round, Rivera defeated Richey Houdek of Midland, 6-0, 6-3.

All four of the top seeds in the women's championship singles survived Saturday's two rounds of action.

Top-seeded Karen Schuchard, a former Midland College player now at Texas Tech, defeated Marla Kennedy of Dallas in her first match, 6-1, 6-3, and then beat Linda Enemark, 6-1, 6-4.

Midland High senior Vicki Vasicek, the No. 2 seed, took a hard fought, 6-3, 4-6, 6-1, decision over Tech's Debbie Donnley in the second round after blasting Mary Jane Spencer of Midland College in the first round, 6-3, 6-0.

Vicki Kerr, another former Midland College player and the tournament's third seeded women's player, beat Peggy O'Neil of Texas Tech, 6-1, 6-2, after Midland College's Karen Young was forced to default in their first round match.

Midland Collge's Geraldine Sayers, the No. 4 seed, eliminated Kendall Martin of Odessa in their first round match, 6-2, 6-4. She went on to down Joni Russell of Andrews, 6-2, 6-3 in the second round.

Jackson leads Tide to win

TUSCALOOSA, Ala. (AP) — Fullback Billy Jackson sped 87 yards in the second period to pace seventh-ranked Alabama to a 23-12 Southeastern Conference football victory over Florida Saturday.

Jackson burst through a drawn end Gator defense on a third down to put Alabama in command 14-3.

His run came after Curtis McGriff recovered a fumble at the Alabama 6. A jarring tackle by linebacker Barry Krauss knocked the ball loose from Florida runner Cris Collinsworth.

Despite getting no first downs in the initial period, the Gators had taken a 3-0 lead on a 34-yard field goal by Berj Yepremian. It was set up by Rod Brooks' recovery of a Tony Nathan fumble at the Crimson Tide 24.

After that field goal, Alabama moved from its 35, mainly on passes by Jeff Rutledge, and the big senior quarterback ran it in from 13 yards out on the first play of the second period.

Jackson's long run helped him pick up 147 yards on 13 carries as Alabama increased its record to 5-1 and 2-0 in defense of its conference title.

Florida now is 1-3 and meets Army next Saturday while Alabama travels to Tennessee.

Whitworth takes lead in Dallas Civitan Open

ROANOKE, Texas (AP) — Kathy Whitworth hit a 7-iron four feet from the pin and dropped the putt for an 18th-hole birdie Saturday that gave her a two-stroke lead going into Sunday's final round of the $75,000 LPGA Dallas Civitan Open.

Whitworth, the host pro at the 6,315-yard Trophy Club course, posted the tournament's best score, a 3-under-par 69, under ideal conditions. She is 1-under-par 143, through two rounds.

Deadlocked for second at 145 are Patty Hayes and Silvia Bertolaccini, two golfers looking for their first U.S. victories. Hayes shot a 71 to go with her first-round 74, while Bertolaccini, the first-round leader, backed an opening 70 with a 73 Saturday.

The original field of 158 was cut to 65 for the final round. Among those who fell were LPGA veterans Carol Mann, Mary Lou Crocker and Marilynn Smith.

It was the second straight day Whitworth birdied the 386-yard, par-4 18th hole. Starting her round four strokes back, she sank a 15-footer for a birdie on the par-5 first hole, dropped a 35-footer for another birdie on the par-3, 166-yard 12th hole and added another birdie by smoking a 3-iron just five feet from the pin on the 381-yard, par-4 14th hole.

"I played very consistent today," said Whitworth, the LPGA's all-time leading money winner with almost $800,000.

Prairie View wins

PRAIRIE VIEW, Texas (AP) — Richard Warefield's two touchdown passes in the final four minutes gave Prairie View a 12-7 victory Saturday over Texas Lutheran.

Fullback Leonard Arnick scored from the 1 to give TLC a 7-0 in the first minute of the fourth quarter. But Warefield hit Bobby Barker with a 7-yard TD pass, then came back with a 48-yard pass to Tracy Jones with 2:02 left.

Both schools are now 1-4.

Notre Dame rally upends Pittsburgh

SOUTH BEND, Ind. (AP) — Quarterback Joe Montana rallied Notre Dame to three fourth-quarter touchdowns and Jerome Heavens shattered legendary George Gipp's career rushing record Saturday to lead the Irish to a 26-17 victory over previously unbeaten Pittsburgh.

The Panthers, ranked No. 9, had forged into a 17-7 lead early in the fourth quarter when Rick Trocano scored his second touchdown of the game on top of a 33-yard field goal by Mark Schubert.

Faced with the possibility of their third loss of the season, the Irish suddenly caught fire. Montana directed an 86-yard drive which ended with an 8-yard touchdown pass to Kris Haines.

Notre Dame came right back with a 59-yard march which ended with Montana sneaking across from the 1 yard line after he had completed passes of 30 yards to Haines and 22 yards to Dave Masztak to put the Irish ahead to stay.

Moments later, the Irish recovered a Pitt fumble and Montana hit Vagas Ferguson with a 3-yard touchdown pass to complete the brilliant comeack which marked Notre Dame's third straight victory after a pair of initial losses.

Heavens carried 30 times for 120 yards, giving him a career total of 2,363 yards. Gipp gained 2,341 yards from 1917-1920.

Montana finished the game with seven straight completions, including two for touchdowns and completed 15 of 25 passes for 218 yards.

Before Montana, known as the "Comeback Kid" for his performances which led to the national championship last year, went to work, sophomore quarterback Trocano appeared destined for the hero's role. He scored both of Pitt's touchdowns on runs of 3 and 4 yards and had the Irish defenses baffled with his veer option plays.

Trocano completed 10 of 21 passes for 117 yards and carried 22 times for a net of 37 yards. His rushing total was knocked down because of some long losses on sacks.

Heavens put Notre Dame in the lead in the first quarter on a 1-yard touchdown run after Tom Gibbons had intercepted a Trocano pass.

Pitt came back with a 79-yard drive in 14 plays to tie the game with Trocano carrying over from the 3-yard line. The next time Notre Dame had the ball, Jim Stone fumbled the handoff and Greg Meisner recovered on the Irish 23 before Schubert booted his field goal to give the Panthers a 10-7 halftime lead.

Notre Dame took the second-half kickoff and went 73 yards before Joe Unis, who had missed a 38-yard field goal late in the first half, missed this time from 24 yards.

Kentucky nips Ole Miss 3-24

OXFORD, Miss. (AP) — Larry Carter exploded 73 yards on a punt return for a third-quarter touchdown Saturday that propelled the Kentucky Wildcats to a 24-17 victory over the Mississippi Rebels in a Southeastern Conference football game.

Carter's thunderbolt arose during a last-half Kentucky uprising led by freshman quarterback Larry McCrimmon, who came off the bench to throw two touchdown passes that wiped out a 10-0 Mississippi lead and ran the Wildcats' record to 2-2-1.

McCrimmon hit wide receiver Felix Wilson on a 26-yard scoring pass to start the rally in the third period and added a 14-yard pass to tight end Jim Campbell following a pass interception with six minutes left in the fourth quarter.

Freshman Tommy Griggs added a 19-yard field goal in the third quarter for Kentucky.

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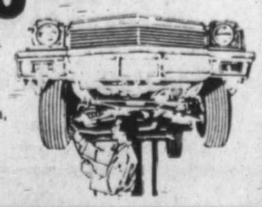
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EAST
Albright 31, Susquehanna 6
Alfred 27, Hobart 0
Allegheny 24, Case Western 6
Bloomsburg St. 16, W. Chester St. 3
Bowdoin 14, Williams 13
Brown 14, Penn 0
Buffalo 15, Albany, N.Y. 8
Canisius 33, Brdgwater,Mass. 16
Carnegie-Mellon 34, Wash. & Jeff. 14
Cent. Connecticut 29, Montclair St. 28
Clarion St. 35, Lock Haven St. 13
Colby 21, Hamilton 7
Colgate 20, Villanova 14
Columbia 14, Princeton 10
Cornell 25, Harvard 20
Cortland St. 20, Brockport St. 15
Dartmouth 10, Yale 3
Delaware 26, N. Carolina A&T 0
Delaware St. 16, N.C. Central 13
E. Stroudsburg 16, Cheyney St. 8
Fordham 28, Coast Guard 7
Frnkln & Marshll 21, Dickinson 3
Geneva 13, Grove City 0Georgetown, D.C. 42, Gallaudet 12
Hiram Col. 16, Thiel 0
Holy Cross 31, Army 0
Indiana, Pa. 28, California, Pa. 6
Ithaca 28, Springfield 14
Juniata 24, Lycoming 7
Kutztown St. 21, Glassboro St. 3
Lafayette 14, Bucknell 7
Lehigh 27, Davidson 21
Maine 7, New Hampshire 7, tie
Maryland 24, Syracuse 9
Massachusetts 31, Boston U. 7
Moravian 17, Gettysburg 7
Muhlenberg 21, Ursinus 7
Navy 31, Duke 8
New Haven 23, Plymouth St. 0
N. Y. Tech. 27, Plattsburgh St. 6
Northeastern 35, S. Connecticut 14
Rhode Island 3, Virginia Union 0
Rutgers 10, Connecticut 0
St. Lawrence 35, Wagner 12
Shippensburg St. 23, Edinboro St. 15
Siena 21, Marist 6
Temple 16, Cincinnati 13
Trinity, Conn. 28, Middlebury 14
Tufts 33, Norwich 31
Union, N.Y. 27, RPI 0
Upsala 10, Delaware Val. 6
Wesleyan 31, Worcester Tech 0
W. New England 28, Fairfield 23
W. Maryland 27, Wilkes 7
Westmnstr, Pa. 20, Waynesburg 16

SOUTH
Alabama 23, Florida 12
Alabama A&M 28, Fisk 7
Alabama St. 48, Md.-E. Shore 12
Appalachian St. 49, Lenoir Rhyne 28
Auburn 49, Vanderbilt 7
Cameron St. 22, Nicholls St. 17
Centre 7, Principia 0
Clemson 30, Virginia 14
Concord 48, W. Virginia Tech 6
Elon 21, Presbyterian 21, tie
Florida A&M 56, Morris Brown 0
Furman 35, E. Tennessee St. 14
Gardner-Webb 14, Catawba 7
Georgetown, Ky. 36, Franklin 7
Georgia 24, Louisiana St. 17
Georgia Tech 24, Miami, Fla. 19
Glenville St. 28, Salem, W. Va. 12
Grambling St. 0, Mississippi Val. 0, tie
Hampden-Sydney 14, Wash. & Lee 0
Howard U. 27, Virginia St. 20
Kentucky 24, Mississippi 17
Kentucky St. 32, Lincoln 20
Liberty Baptist 21, Brdgwater,Va. 13
Louisiana Tech 17, Ball St. 7
Louisville 51, NW Louisiana 7
Memphis St. 26, Wichita St. 13
Miami, Ohio 29, Marshall 3
Mississippi St. 55, Florida St. 27
Murray St. 33, Middle Tenn. 7
Newberry 38, Wofford 28
Norfolk St. 16, Hampton Inst. 6
N. Alabama 40, Austin Peay 6
N. Carolina 34, Wake Forest 29
Ouachita 15, Mississippi Col. 6
Randolph-Macon 42, Emory & Henry 14
St. Paul's 23, Shaw 21
Shepherd 16, W. Va. Weslyn 13
S. Carolina 24, Ohio U. 7
SE Louisiana 33, Livingston St. 0
S. Mississippi 17, E. Caroiina 16
Tn.-Chattanooga 28, Jacksonville St. 21
Troy St. 21, Delta St. 6
Tulane 9, Boston College 3
VMI 23, Richmond 6
Virginia Tech 16, W. Virginia 3
West Liberty 28, Bluefield St. 6
W. Virginia St. 17, Fairmont 10
W. Carolina 38, Citadel 24
W. Kentucky 26, Tennessee Tech 20
William & Mary 32, James Madison 7
Winston-Salem 52, Fayetteville St. 21

MIDWEST
Adrian 24, Albion 13
Arkansas St. 26, S. Illinois 24
Augustana,S.D. 42, N. Dakota 14
Baldwin-Wallace 32, Mount Union 13
Beloit 21, Carleton 13
Bethany, Kan. 27, St. Mary's, Kan. 0
Bowling Green 28, Kent St. 20
Buena Vista 6, Wartburg 0
Carroll, Wis. 34, Carthage 28
Cent. Michigan 45, Illinois St. 7
Cent. Missouri 17, SE Missouri 16
Chadron St. 34, Dickinson St. 22
Coe 31, Knox 6
Colorado Col. 43, Benedictine,Kan. 35
Concordia,Morhd 31, Hamline 13
Dubuque 9, Cent. Iowa 7
E. Kentucky 17, Dayton 16
E. Michigan 25, Akron 14
Ferris St. 14, Hillsdale 3
Findlay 42, Earlham 0
Ft. Hays St. 35, Pittsburg St. 30
Graceland 31, Tarkio 0
Grand Valley St. 24, Saginaw Val. St. 14
Grinnell 21, St. Ambrose 17
Gustav Adolphus 21, St. Olaf 13
Hanover 31, Bluffton 0
Hope 48, Olivet 0
Illinois 20, Wisconsin 20, tie
Indiana 38, Northwestern 10
Indiana St. 13, Drake 0
John Carroll 34, Bethany,W.Va. 27
Kalamazoo 22, Alma 15
Kearney St. 49, Washburn 12
Kenyon 55, Oberlin 0
Lawrence 35, Monmouth, Ill. 6
Loras 21, Marquette 6
Luther 34, William Penn 7
Manchester 13, Anderson 9
Mankato St. 35, Bethel, Minn. 24
Mars Hill 26, Carson-Newman 0
McPherson 27, Kansas Weslyn 0
Michigan St. 24, Michigan 15
Michigan Tech 32, Bemidji St. 3
Minnesota 22, Iowa 20
Minn.-Duluth 57, SW Minnesota 0
Minn.-Morris 16, St. Cloud St. 10
Missouri 26, Iowa St. 13
Mo. Southern 17, Emporia St. 0
Moorhead St. 28, Winona St. 6
Nebraska 48, Kansas St. 14
Nebraska-Omaha 38, Morningside 10
Nebraska Weslyn 21, Midland 6
N. Dakota St. 42, N. Iowa 14
N. Illinois 24, W. Illinois 20
N. Michigan 41, Wis.-Whitewater 14
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Peru St. 42, Yankton 14
Purdue 27, Ohio St. 16
St. John's, Minn. 43, Augsburg 14
St. Joseph, Ind. 21, Butler 17
St. Norbert 22, Northwd, Mich. 21
St. Thomas 28, Macalester 0
Simpson 49, Upper Iowa 7
Slippery Rock 26, Ashland 17
SW Missouri 58, NW Missouri St. 22
SW Kansas 33, Sterling 0
Valparaiso 31, DePauw 0
Wayne, Mich. 34, Evansville 7
Wayne, Neb. 36, Mo. Western 34
W. Michigan 17, Toledo 7
Wilmington 12, Taylor 0
Wis.-Oshkosh 21, Wis.-Stevens Pt. 0
Wittenberg 49, Capital 0
Wooster 24, Marietta 0
Youngstown St. 56, Cent. St., Ohio 33

SOUTHWEST
Ark.-Monticello 26, Evangel 0
Cent. Arkansas 27, S. Arkansas 18
Houston 33, Texas A&M 0
McMurry 13, Trinity, Tex. 7
Prairie View 12, Texas Lutheran 7
Rice 21, Texas Christian 14
Sam Houston St. 21, SW Texas St. 16
Southern Methodist 28, Baylor 21
Tarleton St. 3, Austin Col. 0
Texas 26, N. Texas St. 16
Texas-Arlington 24, SW Louisiana 3

FAR WEST
Brigham Young 17, Oregon 16
Chico St. 24, Cent. Washington 11
Claremont-Mudd 10, San Diego 9
Colorado St. 31, Air Force 13
E. Washington 40, E. Oregon 0
Hayward St. 26, San Francisco St. 10
Idaho 34, Montana 30
Long Beach St. 33, Utah St. 17
Mesa 14, Adams St. 12
Montana St. 23, Idaho St. 12
N. Colorado 15, Cal Poly-SLO 10
Oregon Col. 51, S. Oregon 21
Pac. Lutheran 31, Lewis & Clark 6
Puget Sound 36, Simon Fraser 0
Santa Clara 22, Cal Poly-Pomona 15
Washington 34, Stanford 31
W. Washington 26, Oregon Tech 17
Whitworth 14, Willamette 9
Wyoming 31, San Diego St. 22

Wyoming in 31-22 win over Aztecs

LARAMIE, Wyo. (AP) — Myron Hardeman set a single-game rushing record, and the tenacious Wyoming Cowboy defense held off the vaunted San Diego State passing attack for a 31-22 Western Athletic Conference football victory here Saturday.

Hardeman rushed for 230 yards, breaking his record of 220 set last year at Utah State, but it took two goal line stands by the Cowboy defense to salvage the game.

The No. 1 WAC defense held the Aztecs' conference leading offense to just 66 yards in the first half, but the Aztecs stormed back in the second period behind the passing of quarterback Mark Halda.

Aided by Cowboy fumbles and penalties, San Diego State narrowed the margin to 28-22 before Wyoming's Dan Christopulos put the game out of reach with a 37 yard field goal.

The Cowboys stopped the Aztecs on first-and-goal from the 1-yard line and 2-yard line.

The Cowboys were lead in scoring by Marc Cousins, who ran for two touchdowns and passed for a two-point conversion. Runnng back Latraia Jones also ran for two touchdowns.

Wyoming is now 1-1 in conference play and 2-3 overall. The loss drops San Diego State 0-2 in WAC play and 1-3 overall.

Rams topple Falcons

AIR FORCE ACADEMY, Colo. (AP) — Junior quarterback Keith Lee passed for two touchdowns and ran for another and Colorado State's defense, keyed by All-America tackle Mike Bell and end Kent Campbell, smothered Air Force in the second half en route to a 31-13 college football victory over the Falcons Saturday.

Air Force trailed only 10-7 at halftime, but the entire third quarter was played on the Falcons' end of the field.

CSU finally capitalized late in the period after an Air Force fumble at the 7-yard line. Two plays later, Lee hit tight end Mark E. Bell on a 5-yard scoring pass.

The Rams put the game away in the final quarter with a pair of scores. Lee passed seven yards to the Rams' other tight end, Jack Upton, for the first TD and linebacker Scott Watson returned a blocked punt 22 yards for the other score.

Campbell sacked Air Force quarterback Jim Aaron for a 16-yard loss early in the second half, shoving the Falcons back to their own 6-yard line and into a hole from which they didn't recover until the closing stages of the game.

With 1:29 left, Aaron lofted a 17-yard TD pass to split end Cormac Carney.

Colorado State, running effectively from its two tight end alignment, had jumped out to a 10-0 lead. Lee capped a 91-yard, 18-play drive in the first quarter with a 1-yard run and Mickey Barilla kicked a 45-yard field goal midway through the second period.

Air Force pulled close after taking advantage of a mishandled punt return by the Rams. Tailback Shelby Ball ran three yards for the TD with 1:11 remaining in the half.

The victory boosted CSU to 2-3 on the season, while Air Force absorbed its fourth straight loss and dropped to 2-4.

Sam Houston upsets Southwest Texas State

HUNTSVILLE, Texas (AP) — Sam Houston State's Clay Louis delighted the homecoming crowd as he galloped 46 yards for a touchdown to cap a wild opening to the fourth quarter and seal a 21-16 upset Lone Star Conference victory here Saturday over Southwest Texas State.

Only seconds before, Southwest Texas, ranked No. 2 in the NAIA, took a 16-15 lead when Mike Miller dashed 41 yards for a touchdown.

But the euphoria was short lived. It took just two plays for Sam Houston to retaliate when Lowry grabbed his third touchdown catch of the day against a team that only allowed one touchdown in its for previous outings.

BYU edges Oregon, 17-16

EUGENE, Ore. (AP) — Reserve quarterback Jim McMahon came on to direct two fourth-quarter touchdown drives Saturday as Brigham Young rallied for a 17-16 nonconference football victory over winless Oregon.

The Cougars, 4-2, tied the game on a one-yard run by Doug Williams with three minutes left in the contest. Brent Johnson's coversion kick provided the winning margin.

Oregon led 16-3 after three quarters, but the Cougars cut the margin to 16-10 when McMahon threw a 21-yard touchdown pass to Todd Thompson with 6:27 left in the game.

Purdue stages rally to trip Ohio State

WEST LAFAYETTE, Ind. (AP) — Purdue quarterback Mark Herrmann set up two touchdowns in the third quarter and passed for another score in the fourth period Saturday as the Boilermakers upset 16th-ranked Ohio State 27-16 in Big Ten football.

The Buckeyes, aided by Purdue penalties early in the game, fumbled six times and lost four, including two in the final period which led to Scott Sovereen's second field goal and Herrmann's fourth-quarter scoring pass to Mike Harris.

Herrmann, a sophomore, completed 22 of 34 passes for 210 yards, moving past Dale Samuels into fourth place among Purdue's career passing leaders, behind Mike Phipps, Bob Griese and Len Dawson.

Ohio State freshman quarterback Art Schleister kept the Buckeyes in the game with his passing. He hit 20 of 34 attempts for 289 yards, including a 60-yard touchdown bomb to Rod Gerald that closed the gap tofour points, but a fumble gave Purdue the ball at the 9 yard line and Herrmann hit Harris for the final score three plays later.

The Buckeyes had possession twice more, but lost the ball on downs deep in Purdue territory, then had the ball intercepted in the end zone by Rock Supan with eight seconds left in the game.

The victory, Purdue's first over Ohio State since 1967, gave the Boilermakers a 2-0 record in the Big Ten and a 4-1 overall mark. Ohio State, which got an earlier touchdown on a 49-yard run by Ric Volley, fell to 1-1 in the conference and 2-42-1 for all games.

Rebel Brigade earns 14-14 tie

With the defense rising to the occassion to stop San Angelo's bid for a winning two-point conversion attempt the Midland Lee junior varsity preserved a 14-14 tie with the Central JV here Saturday.

San Angelo started things off with a bang, taking an 8-0 lead with a 60-yard touchdown pass on the game's first play and adding the two point conversion.

Lee cut that margin to 8-6 on a 10-yard scoring pass from Alan Koonce to Bill Dern, but the important PAT attempt failed.

The Stonewall Brigade then opened a 14-8 lead when Eugene Merritt gathered in a screen pass from Koonce and rambled 60 yards for a score behind the blocking of Barry Crowder, Rob Watson and David Payne. Koonce then threw to Kevin Tarver for the two-point conversion.

Aided by a pair of 15-yard penalites, the San Angelo jayvee moved to the Lee 25 and tied the score on a touchdown pass from that point. But, the Lee JV defense rallied to stump the conversion attempt and preserve the tie.

San Angelo had 102 passing yards and 93 rushing yards to the Stonewall Brigade's 125 passing and 175 rushing.

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E78-14	$39.95	$36.95	$2.19	G78-15	$44.95	$40.95	$2.55
F78-14	$42.95	$38.95	$2.34	H78-15	$48.95	$43.95	$2.77
G78-14	$43.95	$39.95	$2.47	J78-15	$49.95	$44.95	$2.96
H78-14	$48.95	$43.95	$2.70	L78-15	$50.95	$45.95	$3.05

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G78-14	$34.95	$2.42
H78-14	$36.95	$2.60
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G78-15	$35.95	$2.45
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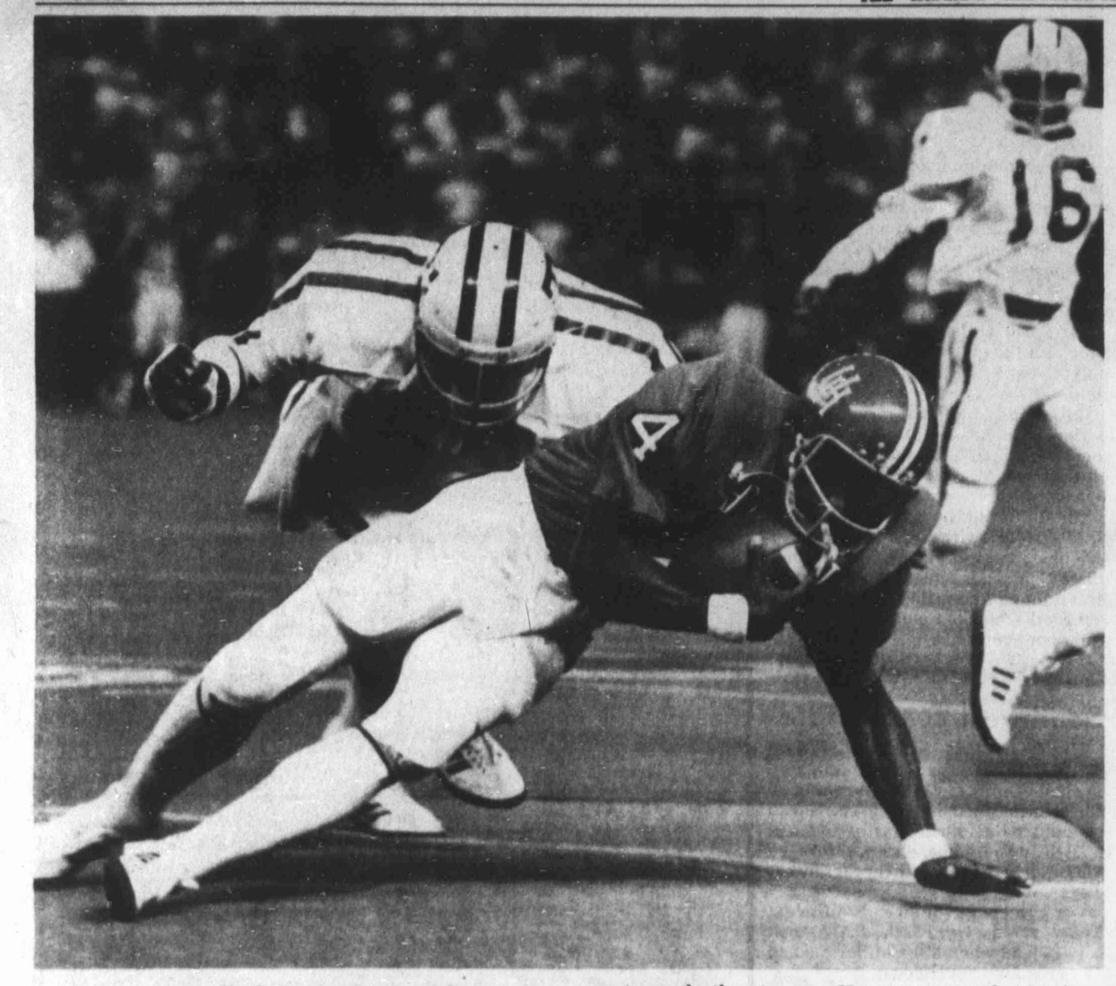

Houston quarterback Danny Davis picks up six yards on this first quarter run before loosing his footing as Texas A&M's Floyd Randle (55) moves up to apply the stopper. Houston upset the Aggies, 33-0, in the Astrodome. (AP Laserphoto)

Abilene Cooper ruins OHS homecoming, 24-0

By TERRY WILLIAMSON
R-T Sports Writer

ODESSA — If Midland Lee football fans would like a sign, an omen if you please, concerning next week's outing with Abilene Cooper then consider this score over your Sunday morning coffee: Cooper 24, Odessa High 0.

Of course, if your memory is not too short, you must remember that Lee escaped the grasp of Odessa High by a 21-20 margin just a week ago, and now they face the task of facing Cooper on foreign soil Friday in what could be the most pivitol of all games during the District 5-4A season.

Make no mistake about it, Cooper deserved the 24-0 win over a stubborn Broncho crew that finally fell apart in the fourth period after two frustrating weeks of having their backs to the proverbial wall.

Cooper was lucky to have a 10-0 lead going into the half, but two fourth quarter touchdowns broke the Wild Bunch's back. Cooper used fullback Terry Orr and quarterback Tracey Thomas to pull off the big victory.

Orr, the 220-pound fullback, rushed for 111 yards in 17 carries while Thomas completed eight of 15 passes for 85 yards and a touchdown. It was all too much for the Bronchos even though fiesty Scott Caywood led all rushers with 113 yards on 19 carries.

The Bronchos held the Cougs at the one-yard line on Cooper's first possession as Pat Lewis put a crunching tackle on Weldon Jones' fourth down plunge. But Cooper came right back and moved back to the one before settling with a 22-yard filed goal off the toe of Kyle Stuard for a 3-0 first period lead.

Disaster struck Odessa with 1:21 left in the half when Cooper's Steve Malpass broke through to block a Brian Cantrell punt attempt and Alvin Jenkins grabbed the errant ball and scored from 22 yards out.

Still, the Bronchos were very much in the game, and early in the fourth period they marched to the Cooper six before they faced an important fourth down. Instead of going for the field goal, they tried to score, but reserve quarterback William Allred was stopped at the one after running when his intended receiver fell down in the end zone.

That was it because Cooper marched 99 yards to go out of harm's way. They did it in eight plays as Orr had runs of 23 and 37 yards, the latter for a touchdown and the game breaker at 17-0.

Cooper added insult to injury after Ray Whitman intercepted his second pass of the night to set the Cougs up at the Odessa 32. Five plays later Thomas hit Joel Harris for the final score of the night.

Odessa High completed only two of 17 pass attempts for a mere 23 yards. Cooper caught more passes with three interceptions and recovered three Broncho fumbles. That was a big factor in the contest.

Cooper is now 2-0 in district, the same as Lee, and 2-3 on the season. Odessa High is now 0-2 and 3-2.

Statistics

Abilene Cooper		Odessa High
15	First Downs	15
265	Yards Rushing	204
85	Yards Passing	23
8-15	Passes Completed	2-17
3	Passes Int. By	0
1	Fumbles Lost	3
5-29.2	Punts-Avg.	2-45.5
6-40	Penalties-Yards	1-15

Scoring

Score by quarters:

Abilene Cooper	3	7	0	14	–24
Odessa High	0	0	0	0	– 0

C--Kyle Stuard, 22-yard field goal
C--Alvin Jenkins, 22-yard return of blocked punt (Stuard kick)
C--Terry Orr, 37-yard run (Stuard kick)
C--Joel Harris, 6-yard pass from Tracey Thomas (Stuard kick)

Michigan State topples Michigan in 24-15 upset

ANN ARBOR, Mich. (AP) — Quarterback Ed Smith threw two touchdown passes and Michigan State intercepted three Rick Leach aerials as the Spartans upset fifth-ranked Michigan 24-15 in a Big Ten football game Saturday.

Smith, who set Michigan State records for completions (27) and passing attempts (41) a week earlier against Notre Dame, hit on 20 of 36 passes for 248 yards. But besides the big air yardage, the Spartans also ran well against the Wolverines, who fell to 4-1 and 1-1 in the conference. Michigan State is 2-3 overall and also 1-1 in the league.

The Spartans shocked Michigan in the first half, dominating all phases of the game to take a 17-0 lead.

Morten Andersen kicked a 38-yard field goal in the first quarter. Fullback Lonnie Middleton scored on a 10-yard pass from Smith in the second quarter and Middleton plunged over from the 1 later in the period.

The first Spartan touchdown concluded a 10-play, 77-yard drive after Mike Marshall intercepted a Leach pass. The second TD came just four plays and 20 yards after Mark Anderson picked off a Leach aerial.

Marshall also intercepted Leach at the Michigan State 30 late in the half.

Michigan drove 70 yards with the second half kickoff to score on a 3-yard run by Leach. But the Spartans came back with another touchdown, an 11-yard pass from Smith to Mark Brammer and Michigan — which got a 4-yard TD run from Russell Davis — never could get back in it.

Angelo State downs Wildcats

SAN ANGELO, Texas (AP) — Jerry Aldridge scored three touchdowns and gained 151 yards to lead Angelo State past Abilene Christian, 33-8, Saturday night in a battle of two of the nation's top NAIA teams.

Aldridge scored on runs of 41 and 2 yards for top-ranked Angelo State and took an 8-yard TD pass from quarterback Mark Embry. Embry hit Kelvin Ratliff on a 37-yard scoring pass also, and Vance Jenkins kicked field goals from 41 and 33 yards.

Abilene Christian, third-ranked NAIA team, was stifled by four lost fumbles and three interceptions. John Mayes threw 11 yards to Odis Dalton for ACU's only score.

Tarleton wins, 3-0

SHERMAN, Texas (AP) — Gale Grant booted a 31-yard field goal with five seconds left in the game to break a scoreless tie and give Tarleton State a 3-0 Texas Intercollegiate Athletic Association football victory over Austin College Saturday.

Halfback Chuck High led the Tarleton ground attack with 116 yards on 25 carries. Ricky Turner recorded 40 yards on 15 carries for Austin College.

McMurry tops Trinity

ABILENE, Texas (AP) — Placekicker Bob Cervetto set school records for the longest field goal and the most scored by a single player in a season to lead McMurry College to a 13-7 Texas Intercollegiate Athletic Association victory over Trinity of Texas Saturday.

Cervetto kicked two field goals to give him eight for the season, with the final one traveling 51 yards to break the records.

SPORTS SCOREBOARD

Civitan golf scores

ROANOKE, Texas (AP) — Here are the results of Saturday's second-round competition at the $75,000 Dallas Civitan Open at the 6,315-yard, par-72 Trophy Club golf course here:

Kathy Witworth	74-69—143
Sylvia Bertolaccini	72-73—145
Patty Hayes	74-71—145
Debbie Massey	74-72—146
Mary Dwyer	73-73—146
Beth Stone	75-71—146
Pat Meyers	75-71—146
Sandra Spuzich	73-75—148
Kathy Postelwait	77-71—148
Amelia Rorer	74-75—149
Barbara Barrow	79-70—149
Jo Ann Washam	79-70—149
Mary Mills	78-71—149
Pam Barnett	76-73—149
Sue Roberts	74-76—150
Laura Baugh	77-73—150
Betsy King	78-72—150
Beverly Klass	81-69—150
Joyce Agazmerski	73-77—150
Alexandra Reinhardt	76-74—150
Merle Breer	76-74—150
Barbara Moxness	77-74—151
Sally Little	76-75—151
Betty Burfeindt	79-72—151
Maria Astrologes	77-74—151
Jo Ann Prentice	77-75—152
Betsy Cullen	77-75—152
Kathy McMullen	77-75—152
Jerilyn Britz	79-73—152
Dale Lundquist	80-72—152
Cathy Morse	79-74—153
Donna Caponi Young	80-73—153
Clifford Ann Creed	81-72—153
Martha Nause	80-74—154
Diane Patterson	74-80—154
Hollis Stacy	79-75—154
Sandra Haynie	79-75—154
Sylvia Ferdon	80-74—154
Joan Joyce	80-74—154
Judy Clark	80-75—155
Mary Bea Porter	81-74—155
a-Jan Rapp	78-77—155
a-Debbie Hall	83-73—156
Connie Chillemi	78-78—156
Janet Coles	80-76—156
Debbie Meisterlin	81-75—156
Dale Shaw	83-73—156
M.J. Smith	84-72—156
Alice Ritzman	80-77—157
Jenny Lee Smith	82-75—157
Vivian Brownlee	82-75—157
Eva Chang	78-80—158
Joyce Benson	78-80—158
Lauren Howe	79-79—158
Debbie Skinner	80-78—158
Kathy Cornelius	80-78—158
Shannon Johnson	81-77—158
Vicki Fergon	81-77—158
Mariene Floyd	85-73—158
a-Kyle O'Brien	76-82—158
Gloria Ehret	80-79—159
Cathy THompson	85-74—159
Kathy Ahern	78-82—160
H.B. Duntz	79-81—160
Carol Mann	79-81—160
Jo Ann Dost	83-77—160
Lee Burke	82-78—160
Debby Rhodes	81-79—160
Mary Lou Crocker	80-81—161
a-Debbie Skelly	83-79—161
Vicki Tabor	86-77—163
Janet Aulisi	84-79—163
a-Rae Rotfelder	84-79—163
Jan Ferraris	82-81—163
a-Jane Grove	81-83—164
Kathy Farrar	88-77—165
Christine Langford	86-79—165
Theresa Hession	85-80—165

NBA boxes

HOUSTON (114)
Tomjanovich 4 3-3 11, Reid 2 2-2 6, Malone 10 7-12 27, Dunleavy 8 3-4 19, Murphy 14 7-7 35, Bradley 0 0-0 0, Watts 2 0-0 4, Jones 6 0-0 12, Barker 0 0-0 0. Totals 46 22-28 114. BOSTON (108)
Barnes 6 3-4 15, Maxwell 6 8-9 20, Cowens 6 5-6 17, White 10 0-0 20, Chaney 2 2-2 6, Knight 3 4-4 10, Awtrey 2 0-0 4, Archibald 2 1-2 5, Tatum 5 1-1 11, Williams 0 0-0 0. Totals 42 24-28 108.

Houston	34	32	27	21—114
Boston	36	25	25	22—108

Total fouls—Houston, 29. Boston, 29. Technicals—Barnes. A—8,674.

NFL at a glance

By The Associated Press
All Times EDT

American Conference	W	L	T	Pct.	PF	PA
East						
Miami	4	2	0	.667	141	84
New England	4	2	0	.667	130	107
N.Y. Jets	3	3	0	.500	136	129
Baltimore	2	4	0	.333	95	165
Buffalo	2	4	0	.333	127	155
Central						
Pittsburgh	6	0	0	1.000	151	63
Cleveland	4	2	0	.667	107	80
Houston	3	3	0	.500	93	100
Cincinnati	0	6	0	.000	66	134
West						
Denver	4	2	0	.667	101	79
Oakland	4	2	0	.667	115	94
Seattle	3	3	0	.500	116	124
San Diego	2	4	0	.333	107	120
Kansas City	1	5	0	.167	94	150
National Conference						
East						
Washington	6	0	0	1.000	132	81
Dallas	4	2	0	.667	136	75
N.Y. Giants	3	3	0	.500	119	114
Philadelphia	3	3	0	.500	116	109
St. Louis	0	6	0	.000	65	136
Central						
Green Bay	5	1	0	.833	127	83
Chicago	3	3	0	.500	105	96
Minnesota	3	3	0	.500	122	112
Tampa Bay	3	3	0	.500	87	90
Detroit	1	5	0	.167	71	123
West						
Los Angeles	6	0	0	1.000	116	64
Atlanta	2	4	0	.333	75	113
New Orleans	2	4	0	.333	121	144
San Francisco	1	5	0	.167	87	128

Sunday's Games
Detroit at Atlanta, 1 p.m.
New England at Cincinnati, 1 p.m.
Pittsburgh at Cleveland, 1 p.m.
Seattle vs. Green Bay at Milwaukee, 1 p.m.
Tampa Bay at New York Giants, 1 p.m.
Washington at Philadelphia, 1 p.m.
Buffalo at Houston, 2 p.m.
Dallas at St.Louis, 2 p.m.
New York Jets at Baltimore, 2 p.m.
Kansas City at Oakland, 4 p.m.
Los Angeles at Minnesota, 4 p.m.
Miami at San Diego, 4 p.m.
New Orleans at San Francisco, 4 p.m.
Monday's Game
Chicago at Denver, 9 p.m.

RHCC results

First-day results from Ranchland Hill Country Club's Fiesta Del Ranchero couples invitational golf tournament

First flight: 1. Bill & Jean Horton, Houston, 138; 2. Marion & R.L. Spears, MCC, 139; 3. Linda & Buddy Jones, Del Rio, 141.

Second flight: 1. Jack & Judy Hunicutt, RHCC, 143; 2. Doug Thomas and Jane Long, RHCC, 145; 3. Liz & Ed Smith, RHCC, 146.

Third flight: 1. John & Helen Raines, Austin, 138; 2. Dave & Bernie Lage, RHCC, 139; 3. Pat & George Cheyney, RHCC, 140.

Fourth flight: First place tie — Vic & Gerry Zoeller, MCC, and Tom & Diana Bowser, Odessa, 147; 3. John & Alice Ballard, MCC, 148.

Low net rounds: Men — Dave Lage. Women — Jean Horton.

Schoolboy football

D'Hannis 13, La Pryor 0
San Antonio Burbank 21, San Antonio Houston 17
San Antonio Edison 41, San Antonio Fox Tech 7
San Antonio Marshall 53, San Antonio Memorial 0
San Marcos Academy 3, San Antonio St. Anthony 0
New Braunfels 48, San Antonio Madison 0
Abilene Cooper 24, Odessa 0

Navy unbeaten 31-8

ANNAPOLIS (AP) — Navy's No. 1 ranked defense throttled Duke Saturday and quarterback Bob Leszczynski teamed with split end Phil McConkey for two touchdowns as the Middies won 31-8 to remain unbeaten in five games.

The Middies capitalized on errors by Duke, now, 3-2, to lead 14-0 at halfime, and scored the first two times they had the ball in the third quarter to go up 28-8 before 24,431 fans.

McConkey 's first score came on a 29-yard toss after a poor Duke punt gave Navy a first down on the Blue Devil 38 early in the third period.

Duke's Dennis Taborn returned the kickoff 52 yards to Navy's 48 Quarterback Mike Dunn got the offense moving for the only time of the day and completed a 6-play drive with a 4-yard toss to tailback Mike Stopper.

Navy struck right back with McConkey making a leaping catch for 34 yards in the middle of a 7-play, 77 yard drive. The final play was a 17-yard Lesczcynski pass the McConkey in the end zone in a slant-in pattern.

Arlington prevails

ARLINGTON, Texas (AP) — Fullback Bill McClesky carried for 146 yards and a touchdown to pace the University of Texas at Arlington to a 24-3 Southland Conference win Saturday night over Southwestern Louisiana.

The victory was the Mavericks' second in a row after opening the season with five straight defeats.

Rice leads win

COMMERCE, Texas (AP) — Paul Rice ran for three touchdowns, including a 60-yard punt return, to lead East Texas State to a 34-0 victory over Howard Payne in a Lone Star Conference game Saturday night.

Rice scored from 10 and 1 yard after ripping off the punt return early in the second quarter to start the scoring for the Lions.

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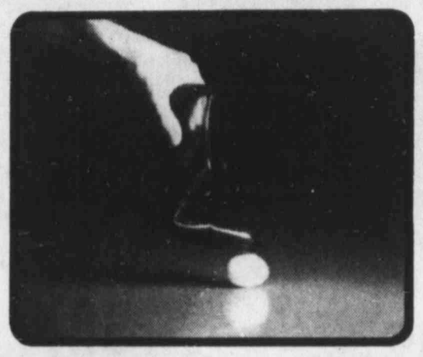
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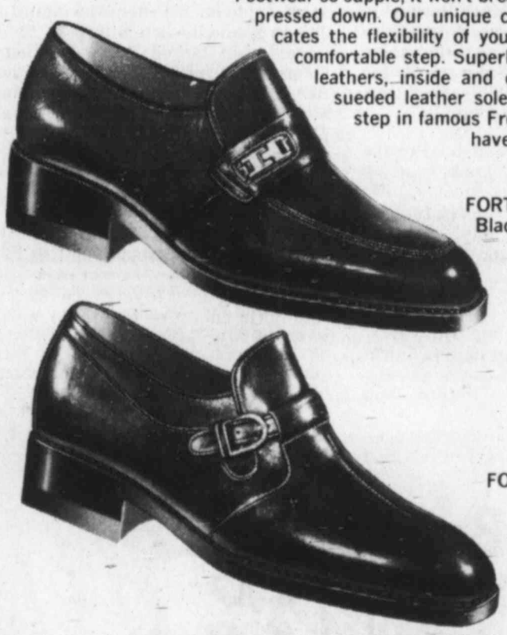
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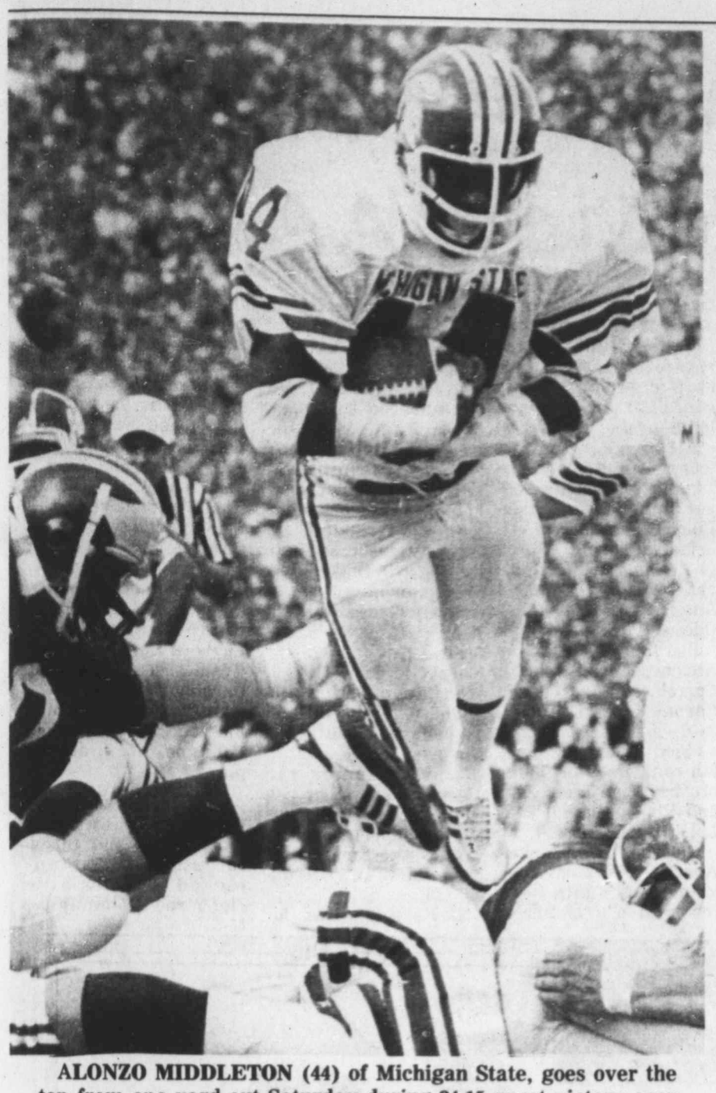

ALONZO MIDDLETON (44) of Michigan State, goes over the top from one yard out Saturday during 24-15 upset victory over Michigan in Ann Arbor. Ron Simpkins (40) of Michigan arrives too late to stop Middleton. (AP Laserphoto).

Gregg wins International title

RIVERSIDE, Calif. (AP) — Pole position winner Peter Gregg, who figured correctly that a fast start would be to his advantage, built a comfortable lead and maintained the margin to the finish for victory Saturday in the International Race of Champions series qualifying race for international road racing stars.

Gregg, a five-time International Motor Sports Association national champion, sped across the finish line in his Chevrolet Camaro 2.5 seconds ahead of Emerson Fittipaldi of Brazil.

Well back of them was newly crowned World Champion Mario Andretti, followed by a few hundred yards by Can-Am Challenge Cup leader Alan Jones of Australia, the last qualifier.

David Hobbs was fifth after running off the course two laps from the finish while trying to pass Jones, followed by trouble-plagued Patrick Depailler of France and John Watson of Northern Ireland. Two-time world champion Niki Lauda was put out on the first lap by a broken clutch that started acting up on the parade lap.

The top four of the eight starters moved into Sunday's full-fledged International Race of Champions event, the first of two "finals" in the $250,000 series. The last race is scheduled for March 1979 in Atlanta.

Four drivers from NASCAR Grand National stock car racing and four USAC Indianapolis cars qualified in earlier races.

The outcome of Saturday's qualifier was largely determined by the start.

Gregg and Fittipaldi, another two-time world champion, had a 1.5-second lead over the other six cars as they crossed the starting line. At the end of the first lap, Gregg had added 1.5 seconds between himself and Fittipaldi. He stretched it to three seconds within a couple of laps and kept the margin there most of the race.

Andretti, who started sixth, got past Jones on the first lap, then on the next lap, Andretti and Jones both went past Depailler when Depailler went off in the dirt.

Despite his quick lead, Gregg said he thought it "was a fair, clean start. No funny business. I looked behind me and knew that Depailler and Lauda were getting ready to jump me. I wasn't born yesterday, so I prepared myself for a fast start."

Indiana nabs win over Cats

BLOOMINGTON, Ind. (AP) — Quarterback Scott Arnett scored three touchdowns and Mike Harkrader rushed for 162 yards Saturday as Indiana capitalized on Northwestern turnovers to post a 38-10 Big Ten college football victory.

Indiana 2-3 overall, and 1-1 in the conference, turned three consecutive Northwestern turnovers into touchdowns in the first 7½ minutes of the game, taking a 21-0 advantage.

Arnett scored from the 7 yard line on the first play after George Doehla recovered Northwestern's fumble of an Indiana punt.

Freshman Tim Wilbur then intercepted Northwestern's second play after the kickoff, returning it 16 yards to the Northwestern 24. Seven plays later, Arnett went over from the 1.

Southern wins

HOUSTON (AP) — Horce Stroud rushed for 63 yards and one touchdown and John McZeal snatched three receptions for 105 yards and another TD Saturday to ease Texas Southern to a 37-17 non-conference football victory over Bishop College in the Astrodome.

Oklahoma State upsets Buffs

STILLWATER, Okla. (AP) — Punter Kris Lundgaard provided the miracles and and booted his previously winless Oklahoma State Cowboys to a surprise 24-20 upset of the No. 13 Colorado Buffalos here Saturday.

Lundgaard prompted some almost audible sighs of relief from the Cowboy bench as he kept the previously undefeated Buffalos deep in their own territory most of the game. He was helped along by some occasional heroics by backs Vince Orange and Worley Taylor and quarterback Scott Burk.

Early in the game the game tide was flowing with Colorado, but then early in the second quarter Lundgaard came out on a fourth-down situation and kicked the Cowboys out of trouble. His boot went out of bonds on the Colorado three.

The Buffs couldn't get their backs away from the goal and brought out their own punter, Lance Olander. Olander's pressure kick covered only six yards and the Cowboys were set up and Orange took it in from 11 yards out.

Oklahoma State started the game strong when Taylor received the opening kickoff and returned it 65 yards to the Colorado 15. Three downs later Colin Ankerson provided the Cowboys' first three points.

Colorado took the lead on a two-yard run by James Mayberry and another two-yarder by Willie Beebe.

Head Coach Jim Stanley's half-time apparently fired up Oklahoma State as the Cowboys started the third quarter with a 10-play, 66-yard drive capped by a three-yard touchdown pass from Burk to Steve Stephens. The final scoring came on a three-yard run by Taylor and Colorado quarterback Bill Solomon's one-yard run.

Tulane nabs 9-3 victory

NEW ORLEANS (AP) — Marvin Christian ran for 176 yards and Ed Murray booted three field goals to lead Tulane to a 9-3 victory over Boston College in a turnover-plagued college football game Saturday night.

Murray's field goals were from 43 yards, 27 yards and 40 yards.

Winless Boston College, which has given the ball away to opponents a half-dozen times a game, appeared to have conquered the turnover tendency through the early going. But when they did lose the handle on the ball, the turnovers came in a flurry.

Missouri topples Iowa State, 26-13

COLUMBIA, Mo. (AP) — Phil Bradley scored one touchdown and passed for another in the second quarter and Earl Gant rammed three yards for six insurance points in the final two minutes, lifting No. 19 Missouri to a 26-13 triumph over 20th-ranked Iowa State Saturday in Big Eight Conference football.

The host Tigers boosted their record to 4-2 by erupting for 16 points in the second period to wipe out a 7-3 lead Iowa State had taken on tailback Dexter Green's 3-yard run.

Bradley ran 13 yards in the second quarter to ignite the Tigers, then whipped an 11-yard scoring pass to Kellen Winslow in helping Missouri withstand a strong second half by the underdog Cyclones.

Jeff Brockhaus booted a 47-yard field goal to establish a 19-7 Tiger margin at halftime.

But in the third quarter, Iowa State closed to 19-13 when Jim Nissen blocked a Brockhaus punt inside the Missouri 15 and Cyclone freshman Joe Brown fell on the ball in the Tiger end zone.

A pass interception by defensive end Wendell Ray then halted an Iowa State march to Missouri's 11 preceding Gant's clinching touchdown with 1:48 remaining after Mark Jones recovered a umbled punt return at the Iowa State 31.

The victory boosted Missouri to 1-1 in Big Eight action, as Iowa State dropped to 0-2. Not enough for the Cyclones, 4-2 overall, was a net rushing production of 134 yards on 22 carries by Green, lifting him to No. 4 on the list of all-time conference rushers.

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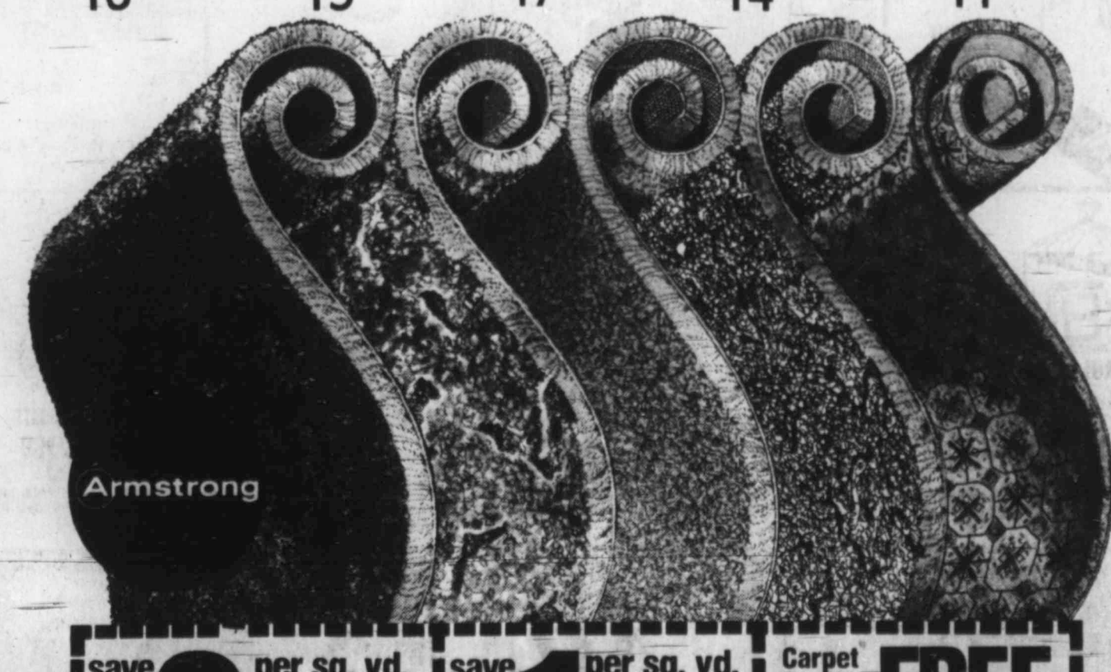

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HIGH SCHOOL FOOTBALL SCORES

By The Associated Press
Thursday's Results

Houston Worthing 18, Bellaire 0
Houston Yates 45, Houston Davis 6
Houston Northbrook 22, Hastings 20
Houston Kashmere 28, Houston Reagan 8
South Oak Cliff 20, Kimball 12
Carter 28, Dallas Madison 7
Dallas Lincoln 7, Spruce 6
Sequin 21, San Antonio Lee 0
San Antonio Highlands 35, San Antonio Wheatley 6
San Antonio Jay 40, San Antonio Kennedy 0
Arlington Heights 42, Fort Worth Poly 18
Austin Anderson 16, Austin Lanier 7
Austin LBJ 32, Austin Crockett 0
Fort Worth Wyatt 7, Trimble Tech 6
Fort Worth Northside 28, Diamond Hill 0

Friday's Results
CLASS AAAA

El Paso Coronado 19, El Paso Austin 8
El Paso Andress 13, El Paso Bowie 7
El Paso Burges 28, El Paso Irvin 0
El Paso 6, El Paso Jefferson 0
Hobbs, N.M. 27, El Paso Eastwood 17
Las Cruces, N.M., 18, El Paso Parkland 10
El Paso Cathedral 26, Socorro 0
Midland 21, Big Spring 6
Hereford 38, Brownfield 12
Lubbock Coronado 12, Carlsbad, N.M. 10
Pampa 22, Lubbock Monterey 16
Lubbock Estacado 18, Lamesa 0
Odessa Permian 24, Abilene 3
Midland Lee 42, San Angelo 0
Amarillo Tascosa 27, Borger 0
Richland 22, Burleson 6
Hurst Bell 21, Irving Nimitz 13
Wichita Falls Hirschi 28, Weatherford 14
Irving 41, Trinity 28
South Grand Prairie 27, Duncanville 22
Lewisville 68, Carrollton Turner 15
Greenville 37, Richardson Pierce 7
Dallas Adamson 9, North Dallas 0
Dallas Samuell 35, Bryan Adams 15
Arlington Lamar 4, Arlington Bowie 7
Plano 28, Lake Highlands 7
Dallas White 21, Hillcrest 16
Highland Park 58, Richardson 7
Denton 23, Newman Smith 0
Arlington 7, Arlington Houston 0
North Mesquite 35, Lakeview Centennial 10
South Garland 12, Corsicana 7
Sherman 24, Denison 17
Skyline 34, Dallas Jefferson 18
Lufkin 14, Longview 0
Tyler John Tyler 46, Pine Tree 0
Marshall 14, Nacogdoches 0
Tyler Lee 6, Texarkana 6, tie
Killeen Ellison 23, University 17
Richfield 18, Killeen 13
Temple 30, Round Rock 0
Austin Austin 28, Austin Travis 7
Austin Reagan 28, Austin Johnston 0
Austin McCallum 17, San Antonio Central Catholic 12
Bryan 40, Copperas Cove 3
Conroe McCullough 29, Jersey Village 0
Conroe 26, Cypress Fairbanks 0
Nederland 14, Port Arthur Jefferson 12
Brazoswood 34, Laredo Nixon 0
Strake Jesuit 24, Victoria 7
Aldine 21, Galena Park 8
Houston Lee 7, Houston Westbury 0
Houston North Shore 28, Houston Smiley 13
Klein 23, Baytown Lee 12
Spring Branch 41, Alief Elsik 13
St. Thomas 31, Victoria Stroman 0
Houston Wheatley 34, Houston Milby 7
Wharton 24, Brazosport 14
Beaumont French 6, West Orange 0
Pearland 29, Texas City 10
Humble 20, Spring 0
Galveston Ball 14, Dulies 10
Deer Park 24, South Houston 6
Houston Washington 22, Waltrip 3
La Porte 21, Pasadena 20
Dobie 48, Clear Creek 0
Stratford 14, Spring Woods 6
Vidor 35, Charlton Pollard 26
Angleton 34, Alvin 26
San Antonio Churchill 17, San Antonio Roosevelt 14
San Antonio McCollum 24, San Antonio South San 6
San Antonio Judson 56, Laredo Martin 6
Alamo Heights 12, San Antonio MacArthur 7
Eagle Pass 7, San Antonio Edgewood 0
San Antonio Jefferson 20, San Antonio Lanier 0
East Central 14, San Antonio Harlandale 13
San Marcos 14, San Antonio Clemens 3
Corpus Christi Carroll 28, Corpus Christi Moody 0
Corpus Christi King 14, Kingsville 14, tie
Corpus Christi Ray 20, Alice 18
San Benito 20, Brownsville Hanna 6
McAllen 20, Brownsville Porter 14
Edinburg 10, Mission 6
Pharr-San Juan-Alamo 7, Harlingen 0

CLASS AAA

Fort Stockton 76, Anthony Gadsden 0
Lubbock Estacado 18, Lamesa 0
San Angelo Lakeview 42, Odessa Ector 0
Pecos 28, Snyder 15
Sweetwater 7, Monahans 2
Wichita Falls Hirschi 28, Weatherford 14
Brewer 15, Azle 7
Brownwood 31, Cleburne 14
Boswell 33, Carter 21
Keller 34, Castleberry 0
Crowley 8, Everman 7
Graham 44, Iowa Park 16
Stephenville 26, Granbury 7
Rockwall 14, Grapevine 7
Desoto 13, Mansfield 0
Burkburnett 17, Mineral Wells 6
Gainesville 20, Terrell 0
Waxahachie 13, Ennis 7
Kerrville Tivy 13, Carrizo Springs 8
Palestine 34, Chapel Hill 9
McKinney 32, Bonham 7
Hallsville 18, Sulphur Springs 6
Atlanta 21, Gilmer 0
Daingerfield 8, Mount Pleasant 0
Liberty-Eylau 14, Paris 14
Carthage 21, Henderson 14
Kilgore 63, Center 0
Gladewater 13, Jacksonville 3
Waco Midway 37, Waco 20
Waco Connally 40, Jefferson Moore 0
Marlin 24, Gatesville 14
Lockhart 21, Taylor 0
Georgetown 33, Lampasas 0
Belton 20, Bastrop 6
Fredericksburg 20, Pleasanton 6
Houston King-4, Huntsville 6
A&M Cons. 14, Channelview 6
Bridge City 13, Little Cypress 7
Bay City 21, Santa Fe 7
West Columbia 41, Friendswood 19
Navasota 13, Aldine Eisenhower 9
Tomball 20, Houston Furr 18
Liberty 3, Dayton 0
Beaumont Hebert 36, Beaumont South Park 0
Crosby 41, Lumberton 0
Hitchcock 38, Sweeney 13
Brenham 21, New Caney 14
Cleveland 9, Livingston 7
Gonzales 17, New Braunfels Canyon 0
San Antonio St. Gerard's 12, San Antonio South San West 7
Southwest 6, Uvalde 0
Cuero 61, San Antonio Southside 7
Beeville 27, Sinton 0
Laredo United 20, Edcouch-Elsa 6
Gregory Portland 46, Calallan 8
Tuloso-Midway 40, Flour Bluff 8
Rockport-Fulton 12, West Oso 0
Donna 7, Falfurrias 6
Brownsville Pace 56, La Joya 9
Wharton 24, Brazosport 14
Raymondville 6, RioYGrande City 6, tie

CLASS AA

Canutillo 12, Silver City, N.M., 0
Abernathy 31, Lubbock Christian 0
Kermit 23, Andrews 12
Morton 20, Springlake-Earth 0
Boys Ranch 44, Farwell 22
Denver City 27, Seminole 7
Frenship 29, Cooper 0
Tahoka 38, Roosevelt 21
Slaton 21, Post 14
Lockney 7, Dimmitt 0
Idalou 21, Muleshoe 7
Childress 23, Tulia 0
Bridgeport 10, Olney 7
Cedar Hill 28, Kennedale 7
Cisco 23, Clyde 13
Brady 6, Eastland 0
Electra 28, Jacksboro 7
Joshua 6, Springtown 2
Stamford 8, Anson 7
Colorado City 54, Ballinger 0
Merkel 22, Winters 0
Brady 6, Eastland 0
Cisco 23, Clyde 13
Breckenridge 41, Comanche 22
Henrietta 20, Petrolia 14
Frisco 26, Red Oak 21
Mount Vernon 34, Rivercrest 12
Forney 26, Ferris 20
Midlothian 46, Alvarado 8
Mabank 33, Wills Point 12
Crockett 46, Diboll 0
Palestine Westwood 27, Teague 12
Whitehouse 27, White Oak 8
Lindale 31, Brownsboro 27
Mineola 14, West Rusk 0
Quitman 14, Van 0
Linden-Kildare 25, DeKalb 20
Pittsburg 14, Hooks 8
Jefferson 54, Paul Pewitt 12
Hughes Springs 21, New Boston 0
Robinson 57, Hillsboro 0
La Vega 36, McGregor 13
West 34, Groesbeck 0
Giddings 34, Smithville 3
Weimar 20, Texas School for Deaf 6
Llano 54, Junction 0
Medina 20, Johnson City 18
Magnolia 13, Columbus 6
Splendora 28, Huffman 8
Hamshire-Fannett 12, East Chambers 6
Port Arthur Austin 21, Buna 3
Newton 35, San Augustine 0
East Bernard 42, Needville 0
Bellville 33, Waller 0
Sealy 20, Brookshire 0
Hempstead 7, Rice Cons. 6
Orangefield 99, Kountze 0
Barbers Hill 7, Willis 6
San Antonio Cole 14, San Antonio Holy Cross 6
Antonian 28, Bandera 0
Aransas Pass 19, George West 0
Refugio 15, Mathis 0
San Diego 35, Freer 0
Medina Valley 27, Divine 6
Poteet 35, Petula 8
Somerset 15, Crystal City 14
Hondo 24, Pearsall 7
Taft 27, Bishop 20
Ingleside 14, Odem 7
Benavides 12, Premont 0
Hebbronville 35, Zapata 0
La Feria 21, Sharyland 20
Boling 20, Palacios 7
Los Fresnos 14, Lyford 7
Rio Hondo 18, Santa Rosa 7
Port Isabel 86, Hidalgo 6
Edna 27, Billington 7

CLASS A

Seagraves 20, O'Donnell 0
Sunray 48, Bovina 17
Munday 24, Paducah 0
Hale Center 21, Petersburg 0
Lorenzo 33, Spur 15
New Deal 39, Ralls 9
Plains 44, Anton 0
Stanton 22, Shallowater 15
Carroll 41, Royse City 6
Nocona 21, Chico 0
Knox City 23, Aspermont 6
Munday 24, Paducah 0
DeLeon 35, Dublin 6
Glen Rose 28, Hubbard 0
Meridian 35, Hamilton 7
Hamlin 43, Albany 7
Hico 34, Lorena 20
Celina 40, Lindsay 6
Muenster 22, Callisburg 6
Pilot Point 14, Aubrey 0
Bangs 18, Ranger 0
Sanger 23, Pottsboro 0
Haskell 59, Crowell 0
Baird 48, Hawley 0
Cross Plains 25, San Saba 14
Leonard 20, Wolfe City 6
Hawkins 21, Sabine 0
Waskom 42, Ringgold 6
China Spring 37, Moody 6
Calvert 6, Marl 6, tie
Bremond 15, Buffalo 10
Troy 27, Thorndale 0
Blooming Grove 20, Wortham 7
Academy 10, Florence 7
Lexington 21, Hearne 7
Schulenberg 29, Tidehaven 21
Granger 21, Rodgers 6
Bartlett 12, Liberty Hill 7
Sabinal 20, Geronimo Navarro 0
Schulenberg Bishop Forest 27, Louise 0
Groveton 31, Karnack 6
Lovelady 28, Somerville 0
Marion 47, Lutheran 14
Shepherd 40, West Hardin 0
Three Rivers 23, Dilley 0
Yorktown 19, La Vernia 0
Poth 33, Nixon 8
Stockdale 19, Jourdanton 7
Brackettville 18, Center Point 3
Skidmore-Tynan 39, Smiley 0

OTHERS

Sierra Blanca 21, Tornillo 0
Grady 62, Whitharral 33
Western Hills 74, Plainview Christian Academy 0
Lazbuddie 41, Sudan 23
Silverton 19, Happy 12
Klondike 31, New Home 0
Amherst 24, Sundown 14
Smyer 34, Whiteface 0
Claud 25, Motley County 0
Valley 42, Nazareth 0
Jayton 46, Borden County 0
Loraine 20, Sterling City 6
Meadow 26, Dawson 0
Jal, N.M., 38, Van Horn 16
Southland 74, Ira 24
Cotton Center 66, Loop 18
Wellman 40, Three Way 22
Early 49, Goldthwaite 6
Garden City 42, Roby 16
Windthorst 28, Rule 8
Throckmorton 55, Chillicothe 6
Eden 44, Santa Anna 24
Robert Lee 22, Bronte 14
Irion County 26, Miles 6
Gorman 14, Evant 13
Blanket 26, Tolar 0
Christoval 28, Blackwell 25
Water Valley 38, Divide 12
Paint Rock 58, Talpa-Centennial 0
Southland 74, Ira 24
Hermleigh 43, Hobbs 12
Vernon Northside 60, Benjamin 24
Gordon 58, Strawn 12
Moran 68, Weinert 53
Gustine 54, Starr 6
Lone Oak 60, Celeste 6
Dallas Christian 16, Trinity Valley 8
Italy 35, Frost 6
Blue Ridge 28, Cumby 18
Como-Pickton 13, Fannindel 12
Fort Worth Christian 25, Cistercian 7
Temple Christian 30, Castleberry Christian 6
Springhill 13, Winona 6
Axtell 22, Bruceville-Eddy 0
Chilton 35, Valley Mills 16
Crawford 62, Coolidge 0
Thrall 40, Holland 0
Hutto 26, Milano 0
Salado 21, Jarrell 7
High Island 60, Sabine Pass 12
Cold Springs 28, Tarington 20
St. Pius 40, Northwest Academy 22
Chesier 30, Colmesneil 0
St. Johns 10, Dallas St. Marks 7
Medina 29, Johnson City 18
Rocksprings 32, Leakey 15
Ben Bolt 14, Banquete 6
Victoria St. Joseph 12, Danbury 0
Hallettsville Sacred Heart 61, Shiner St. Paul 16
Runge 26, Texas Military Institute 7
Marine Military Academy 24, Brownsville St. Joseph 14
San Isidro 36, Laredo Martin JV 0

Minnesota dumps Iowa

MINNEAPOLIS (AP) — Mark Carlson completed 14 of 19 passes for 175 yards and two touchdowns and Marion Barber rushed for 123 yards as Minnesota nipped Iowa 22-20 Saturday for the Gophers' first Big Ten victory.

Carlson, starting his second game of the season, whipped two 17-yard scoring passes to split end Elmer Bailey in the second quarter as the Gophers built up a 19-0 halftime lead.

Fullback Kent Kitzmann got Minnesota's first touchdown on a short run in the first quarter.

Paul Rogind booted a 27-yard field goal to put Minnesota ahead 22-0 in the third quarter before the Hawkeyes rallied.

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How top 10 prep teams did

By The Associated Press

Here is how the top ten fared in The Associated Press Schoolboy Football Poll. Season records are in parentheses.

Class AAAA

1. Temple (5-0-0) beat Round Rock, 30-0
2. Garland (5-0-0) beat Mesquite, 35-7
3. Arlington Lamar (5-0-0) beat Arlington Bowie, 23-7
4. Houston Stratford (5-0-0) beat Spring Woods, 14-6
5. San Antonio Churchill (5-0-0) beat San Antonio Roosevelt, 17-14
6. Odessa Permian (5-0-0) beat Abilene, 24-3
7. Corpus Christi Carroll (5-0-0) beat Corpus Christi Moody, 28-0
8. LaPorte (4-1-0) beat Pasadena, 21-20
9. Tyler (5-0-0) beat Pine Tree, 46-0
10. Plano (4-1-0) beat Lake Highlands, 28-7

Class AAA

1. Huntsville (5-1-0) lost to Houston King, 7-6
2. Gonzales (6-0-0) beat New Braunfels Canyon, 17-0
3. Beaumont Hebert (5-0-1) beat Beaumont South Park, 36-0
4. Brownwood (6-0-0) beat Cleburne, 31-14
5. Raymondville (5-0-1) tied Rio Grande City, 6-6
6. Bay City (6-0-0) beat Santa Fe, 21-7
7. Fort Stockton (6-0-0) beat Anthony Gadsden, N.M., 76-0
8. Pecos (6-0-0) beat Snyder, 28-15
9. Kerrville Tivy (6-0-0) beat Carrizo Springs, 13-8
10. Gainesville (6-0-0) beat Terrell, 35-0

Class AA

1. Mount Vernon (5-0-0) beat Rivercrest, 34-12
2. Newton (6-0-0) beat San Augustine, 35-0
3. Bridgeport (5-0-0) beat Olney, 10-7
4. Cameron (5-0-0) did not play
5. Muleshoe (4-1-0) lost to Idalou, 21-7
6. Port Isabel (5-0-0) beat Hidalgo, 86-6
7. Sealy (5-0-0) beat Brookshire, 20-0
8. Childress (6-0-0) beat Tulia, 23-0
9. Breckenridge (5-1-0) beat Comanche, 41-22
10. Tahoka (4-1-0) beat Lubbock Roosevelt, 36-21

Class A

1. Farmersville (6-0-0) beat Community, 35-6
2. Pilot Point (6-0-0) beat Aubrey, 34-0
3. DeLeon (5-0-0) beat Dublin, 25-6
4. Lexington (5-0-0) beat Bloomu, 29-7
5. Wellington (3-2-0) lost to Floydada, 19-14
6. Lovelady (4-1-0) beat Somerville, 29-0
7. Iraan (5-0-0) beat Ozona, 61-0
8. Dilley (3-1-1) lost to Three Rivers, 23-0
9. Charlotte (4-1-0) did not play
10. Grapeland (4-1-0) did not play

Huntsville is upset by King in Class AAA tilt

By The Associated Press

Huntsville's explosive offense misfired Friday night and unheralded Houston King snatched a 7-6 upset victory on the strength of quarterback Forest Wychopen's touchdown dive.

Tailback Kenny Jones scored late in the fourth quarter for top-ranked class 3A Huntsville, but Lloyd Archie's extra-point try and Huntsvilles' chances for a tie slipped wide to the right.

Temple, top-ranked in The Associated Press Schooolboy Footbatll Poll, pounded Round Rock 30-0. Garland quarterback Herkie Wall rambled for three touchdowns on runs of 74, 83 and 35 yards and threw for another as the 2nd-ranked Owls crushed unbeaten Mesquite, 35-7.

Tom Kidd collected two touchdowns and Kerry Techlenburg ran for another as 3rd-ranked Arlington Lamar kept its record spotless with a 23-7 rout of Arlington Bowie.

All ranked class 4A teams came out on the winning side of the ledger in Friday's action. Houston Stratford, No. 4, defeated Spring Woods, 14-6; San Antonio Churchill, No. 5, edged San Antonio Roosevelt, 17-14; Odessa Permian, No. 6, rolled to a 24-3 win over Abilene; Corpus Christi Carroll, No. 7, trounced Corpus Christi Moody, 28-0; LaPorte, No. 8, nudged Pasadena, 21-20; 9th-ranked John Tyler crushed Pine Tree, 46-0; and Plano, No. 10, beat Lake Highlands, 28-7.

Gonzales' 2nd-ranked Apaches cast a covetous glance at Huntsville's top-berth in 3A as Buzzie Dennis scampered for two touchdowns to give Gonzales a 17-0 win over New Braunfels Canyon.

Beaumont Hebert, No. 3, clobbered Beaumont South Park, 36-0; 4th-ranked Brownwood trimmed Cleburne, 31-14; Raymondville, No. 5, had to settle for a 6-6 tie with Rio Grande City; Bay City outscored Santa Fe, 21-7; 7th-ranked Fort Stockton devastated Anthony Gadsden, N.M., 76-0; Pecos, No. 8, defeated Snyder, 28-15; Kerrville Tivy, No. 9, beat Carrizo Springs, 13-8; and 10th-ranked Gainesville strolled to a 20-0 win over Terrell.

Travis Sanders ran amok Friday night collecting four touchdowns and an unbelievable 325 yards as 8th-ranked Port Isabel blew away Hidalgo, 86-6.

Stevie Evans ran for three touchdowns to give top-ranked class 2A Mount Vernon a 34-12 margin over Rivercrest, But 2nd-ranked Newton kept up the pressure as it crushed San Augustine, 35-0.

Bridgeport, No. 3, edged Olney, 10-7; Sealy, No. 7, strolled to a 20-7 win over Brookshire; Childress, No. 8, routed Tulia, 23-0; Breckenridge outdistanced Comanche, 41-22 and 10th-ranked Tahoka beat Lubbock Roosevelt, 3-21.

Muleshoe, No. 5, was the only ranked class 2A team to fall as it was blasted 21-7 by Idalou. Cameron, No. 4, did not play.

Quarterback Bobby Bishop ran for three touchdowns and threw for another as top-ranked Farmersville clobbered Community, 55-6.

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ROBERT CO-OP 9"

Concert good but unfulfilling

I kept waiting for the main course to follow the canapes and the appetizers at Saturday night's benefit concert here by famous composer-singer Burt Bacharach and the Houston Symphony Orchestra.

A review

It turned out the canapes and the appetizers were the main (and only) course — there wasn't anything else forthcoming.

Don't get me wrong: I enjoyed the orchestra's and Bacharach's immensely stylish and stylized musical offerings as much as anyone - such songs as "Close to You," "Promises, Promises," "Say A Little Prayer" and "Do you Know the Way to San Jose?"

But, as much as I drew pleasure from these and lesser-known Bacharach compositions, I couldn't help but consider the whole musical lineup rather a waste of a professional orchestra's time and collective talents.

I wish this fine orchestra could have played one solid, substantial work during the course of the evening.

Bacharach augmented the Houston Symphony players with his own group of instrumentalists and vocalists from East and West coasts and they added to the stylishness of the concert, which was presented in Chaparral Center of Midland College under auspices of the Odessa Symphony Guild. The concert was a benefit for the Midland-Odessa Symphony and Chorale.

I couldn't help but consider the whole musical lineup rather a waste of a professional orchestra's time and collective talents.

The eloquent and elegant Bacharach introduced a number of new works on the program — they were, in effect, premiered in the concert here.

These works are for the most part untitled as yet — being identified by number only, such as No. 202, No. 203 and No. 211. They were nicely performed by the orchestra and special guest instrumentalists and vocalists.

Another new work, titled "There Is Time," was given a splendid reading by Bacharach and the orchestra, joined by vocalist Sally Stevenson who wrote the lyrics.

Many of the Bacharach songs which the composer and orchestra presented here have lyrics by Hal David, to whom the composer paid special tribute in the concert here.

Another musical work which Bacharach presented was "Dancing Fool," representing a collaboration between Bacharach and British actor Tony Newley.

Bacharach paid tribute to the Houston Symphony, describing it as one of the "top ten" symphony orchestras in the U.S. He and the orchestra will repeat their Midland program in Houston on Nov. 1 as a benefit to the Houston Symphony Pension Fund.

Then, he and the orchestra will collaborate in making two LP records for A&M Records. The recording sessions on Nov. 2 and 3 in Jones Hall for the Performing Arts in downtown Houston will result in one LP of totally new material which Bacharach has written. —ROGER SOUTHALL

Federal agent contends oil, brine water polluting lakes

(Continued from Page 8A)

brine discharges into pits and playa lakes such as Whalen effective Jan. 1, 1969, because of widespread complaints about pollution of ground water.

The commission has granted 6,000 exceptions to the "no pit" rule, however, including 500 permits for oil producers to dump brine into coastal waters and some for discharge into unlined pits.

Farmers complain salt streams from drilling operations contaminate their water supplies and state pollution experts acknowledge there are some problems related to pit disposal. J.C. Franklin said he drew fresh, clear water from a well on his 1,300- acre ranch south of Midland for more than 30 years before "a salt stream got into it."

The state's water quality experts at one time investigated such pollution, but the state Legislature rewrote the lawbooks in 1967 to give the Railroad Commission exclusive jurisdiction over any pollution resulting from oil production.

An irate landowner's complaint four years ago brought a halt to brine dumping at Cordona Lake, 12 miles southwest of Crane after a valve malfunction dumped 950 barrels of straight crude into the water. Environmentalists have alleged that pollution due to brine water disposal has also occured at Mound Lake in Terry County, Soda Lake in Crane County, Hidden Lake in Andrews County and Cedar Lake in Gaines County. Whalen Corp. discontinued brine disposal at Soda Lake prior to last year's railroad commission hearing.

Meanwhile, officials from Department of Parks and Wildlife and other state agenices are concerned that unless the Railroad Commission facilitates more open discussion of the problem, federal officials might come in and subject the Texas oil companies to stiffer federal controls.

Defenders of Wildlife, a nationwide animal protectionist group headquartered in Washington, D.C., has put a national focus on the issue by threatening to file a major law suit in federal district court.

Ector County bond election date set

ODESSA — A $21.6 million Ector County Independent School District bond issue will face voters in early December.

Voters will be asked to approve an 11 per cent hike in taxes to finance construction of three new schools, a football stadium and extensive renovations to various existing school facilities.

School trustees set Dec. 5 as the election date. The board has been planning the election more than a year.

The trustees announced they officially will call the election at their Tuesday board meeting. If all three election propositions pass, taxpayers will find 14 cents added to the school district tax rate — up to $1.325 from the present rate of $1.185.

For the owner of a $20,000 home, passage of all three bond proposals would mean his taxes would go up from $177.75 to $198.75 yearly. Owner of a $50,000 home would pay $496.875 — which would be $122.38 more than he presently pays.

All three proposals on the ballot will pass or fail independent of each other. A fourth proposal on the ballot will ask voters to indicate on which of the two sites available to the ECISD they would prefer the football stadium to be built.

Bob Keeshan

Sammy Davis Jr.

Names in the news

SPOKANE (AP) — Today is the first anniversary of Bing Crosby's death, and Gonzaga University has announced it plans to honor its most famous alumnus with a memorial.

Crosby suffered a fatal heart attack Oct. 14, 1977, as he was finishing a round of golf in Spain.

The Rev. Arthur Dussalt, a Gonzaga vice president and close friend of the Crosby family, says plans call for a bronze statue of Crosby to be placed in front of the Crosby Library on campus.

Deborah Copenhaver, a local sculptor, has been selected to do the work. She also will make a limited number of small replicas of "The Crosby Bronze," as the statue will be called, which will be sold to finance the estimated $50,000 project.

Her model shows Crosby in a relaxed pose with his trademarks — a pipe, casual clothes, a hat with a feather and, of course, a set of golf clubs.

●

STATELINE, Nev. (AP) — What's Sammy Davis Jr. without his smile?

The entertainer cancelled one of his shows here Friday at Harrah's Hotel-Casino because of dental problems.

"Sammy Davis' mouth is swollen and he's under medication," said Harrah's spokesman Carl Walquist. The singer is to fly to Los Angeles for dental care today, Walquist added.

Singer Liza Minnelli, who just completed her one-week engagement at Harrah's, was to take Davis' place for the single show. But she would have to "wing it," Walquist said, because her musical arrangements, sets and costumes already had been moved.

●

HERSHEY, Pa. (AP) — Captain Kangaroo has some advice for parents and educators.

Bob Keeshan, a pioneer in children's television programming and long-time star of Captain Kangaroo, said Friday that careful selection of TV programs can transform the medium from an enemy of educators to an ally.

"Don't expect children to view the public television channels when their parents are watching 'Starsky & Hutch,'" Keeshan, 51, told the the annual meeting of the National Association of State Boards of Education.

"If you think children watch too much television, perhaps you ought to look at your own viewing habits."

●

UNITED NATIONS (AP) — U.S. Ambassador Andrew Young has complained to a United Nations committee that "male-led nations" were resisting equal rights for women.

"I therefore take this opportunity," he said, "to caution my reluctant brothers that the time for merely paying lip service as support for the struggle of our sisters has ended."

Young said U.N. Secretary-General Kurt Waldheim should name a special official "to be responsible for increasing the number of women employed" here.

Medical Explorer post plans meeting

High School students interested in a career in the health fields are invited to attend an organizational meeting of Medical Explorer Post No. 68, sponsored by Midland Memorial Hospital.

The 7 p.m. meeting will be Tuesday in the hospital cafeteria, Jerry Campbell, assistant administrator, announced.

"All interested high school students are invited to attend," he said, noting that in the past students planning to enter such fields as nursing or medicine had participated as well as students interested in a wide range of health careers.

There are more than 200 different career opportunities in the health field, and members of Medical Explorer Post No. 68 will have the opportunity to see many of these areas first hand, Campbell said.

In the past, members have toured major medical centers in both Houston and Dallas.

Campbell also pointed out that in addition to the health career exposure, members had numerous social events throughout the school year.

Students at both high schools are invited to attend. The MMH cafeteria is located in the lower level of the west wing.

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A temporary truce prevails between tough-talking Elaine and casual acquaintance Barney Cashman in the Neil Simon comedy, "Last of the Red Hot Lovers," currently playing at The Mansion dinner theater between Midland and Odessa. Patsy Allen portrays Elaine and television comedian Al Lewis plays Barney. "Last of the Red Hot Lovers" will have a matinee at 2:30 p.m. today, with supper served following the performance, and Tuesday through Saturday performances at 8:30 p.m., preceded by dinner between 6:30 and 8. Table reservations for all performances through Oct. 29 may be made through the box office, 563-1133 or 367-8658.

ENTERTAINMENT

Dallasite Billie Grawunder is shown with Latin American folk art which she brought for a special exhibition in Midland's Museum of the Southwest this weekend. The show and sale, sponsored by Las Manos—"The Hands"—museum volunteer service organization, will continue between 2 and 5 p.m. today at 1705 W. Missouri Ave. The collection is on view to the public without charge. (Staff Photo)

Annual regional art show opening here this week

Midland Arts Association's annual Fall Regional Art and Crafts Exhibition opens this week.

The exhibition, one of the most popular annual fall events in the city and surrounding area, will be held this year in the new Fine Arts Building at Midland College. The show will open to the public Wednesday morning, continuing on view daily through Oct. 28.

Visiting hours will be 8 a.m. to 5 p.m. each weekday, and 1 to 5 p.m. Saturdays and Sundays. There will be no charge for admission.

True to its name, the Fall Regional Exhibition attracts artists and craftspeople in a wide area of the Southwest, extending eastward as far as Bowie and Abilene, south as far as Alpine and Marfa, west as far as Roswell and Carlsbad, N.M., and north as far as Plainview.

Exhibition categories in the show include paintings (all media), graphics, sculpture, photography, ceramics, jewelry, weaving and textile arts. Entries in the show were received Saturday at the MC fine arts building.

Anne Livet, former curator of the Fort Worth Art Museum, a museum of 20th Century art, will be in the city today and Monday to judge the show. She will recommend cash awards totaling $2,000. Awards will be presented to winning artists and artisans at an invitational preview scheduled Tuesday evening in the McCormick Gallery of the MC fine arts building.

Norma Helm, president of Midland Arts Association for the current year, is general chairman of the 1978 Fall Regional show.

Hero of MacDonald thrillers back

THE EMPTY COPPER SEA. By John D. MacDonald. Lippincott. 239 Pages. $8.95.

Travis McGee, the durable and likable hero of a clutch of John D. MacDonald thrillers, is back once again in "The Empty Copper Sea."

This is the 17th in the colorfully titled McGee series, and fans of the books know what to expect. The books are literate and well-crafted.

This time out, McGee is working on his boat when an old acquaintance named Van Harder comes aboard and asks his help. Harder was skippering a boat for a millionaire named Hub Lawless when he passed out and Lawless was lost overboard. The authorities say Harder was drunk, but Harder claims he was drugged and that Lawless did not drown as claimed but instead swam to shore, picked up a lot of money he had milked from his various financial enterprises and then took off for parts unknown.

The plot gets quite complicated at times, but MacDonald is too good a story spinner to leave anything unexplained and by book's end all loose strings have been neatly tied.

Phil Thomas
AP Books Editor

Pianist to play here

ABILENE — Joseph Banowetz, an acclaimed pianist who also is widely known as a writer, will play a recital at Hardin-Simmons University Friday night.

The 8 p.m. program will be in Woodward-Dellis Hall on the H-SU campus. There will be no charge for admission.

Currently, Banowetz is a member of the faculty of North Texas State University at Denton and is a visiting lecturer during the summer at the University of Michigan division of the National Music Camp at Interlochen. His classical recordings are available on the Educo label, and he has had numerous articles published in music journals. He also has edited musical textbooks.

Banowitz' talents as a keyboard artist have won him high acclaim in cities in many parts of the world. The London Times described his performance of a London concert as "piano playing of a high international order." A Vienna critic spoke of his "flawless technique," while a Berlin newspaper described him as "an artist of quite exceptional quality."

For his Hardin-Simmons University appearance this week, Banowetz has programmed Schubert's Allegretto in C minor and Beethoven's Piano Sonata Opus 106. Also scheduled for presentation are works by Chopin and Liszt.

MCT makes switch

Midland Community Theatre has announced that "Send Me No Flowers" will be its December production, in place of the originally scheduled "Relatively Speaking."

Tryouts to fill parts in the show are scheduled for 3 p.m. Sunday and 8 p.m. Monday and Wednesday at Theatre Midland, 2000 W. Wadley Ave.

"Send Me No Flowers," a comedy by playwright George Kimball, has parts for nine men and three women, including several "bit" parts for persons who do not wish to undertake a large role.

Previous stage experience is not necessary, and persons do not have to be MCT season members to qualify for a part. Newcomers to the city and surrounding area have a special invitation to come and read for parts in the play, which will go into rehearsal soon in preparation for an early December opening.

Middle East market?

CHICAGO (AP) — Local business and academic leaders will work out a plan for a European-style common market for the Middle East, the Chicago Tribune reported Saturday. The decision reportedly came at a meeting in the office of A. Robert Abboud, chairman of the the board of the First National Bank of Chicago. He is of Lebanese descent.

The plan, to include Israel, would be developed by First National, several corporations and three universities. The Tribune quoted a source as saying President Carter and Israeli Prime Minister Manachem Begin welcomed the plan, which would encompass economic cooperation, common highways, a common currency, and border passage for workers.

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An updated version of Shakespeare's "Comedy of Errors" will be presented by the prestigious Oxford and Cambridge Shakepeare Company of Great Britain in a performance at 8 p.m. Wednesday in Odessa's Globe Theater. The house is sold out for the touring show, with only standing room tickets remaining. Information on ticket availability may be obtained from the Globe box office, 332-1586.

PBS unshaken by networks

NEW YORK (AP) — You can't always tell from the local listings, but there's a lot of sound planning behind what you get from public TV.

"There is a philosophy to what we do," says Chloe Aaron, who's in charge of programming for the Public Broadcasting Service, "priorities we set for ourselves. And we have a certain latitude because we're blessed with not having to make money with everything we put on the air.

"Of course, there's a problem with that," she says. "It means we don't have the resources to be everything to everybody every year.

"The word 'alternative' is used a lot to describe public television, but it's not necessarily a good one by definition. I like to think of our schedule as a model for what good television could be."

Programming on public TV varies from station to station, so PBS' blueprint can be difficult to follow, the priorities often unclear.

Ms. Aaron says the non-commercial network's plan for this fall emphasizes public affairs and live programming, with Bill Moyers' return after two years at CBS and the upcoming seven-part "Election '78" series among the highlights.

"And we have 100 percent more live programming planned this fall," she says, already 95 and one-half hours scheduled and probably more. That's a commitment to live programming, not just a one-time thing."

Public television, she says, often walks a fine line between high quality, though perhaps specialized, programming, and the ratings.

"There are people in public television who think the numbers should never be mentioned," Ms. Aaron says of the ratings. "I think that's an irresponsible attitude.

"Once you schedule a program, and once you promote it, then if nobody watches it, you're wasting people's money."

In that light, Ms. Aaron and her staff examine available audience information to determine why one program did well and another didn't. Assume from the start a PBS program, for lack of money alone, will get a fraction of the promotion afforded the network competition.

"And, for several reasons, we have to plan two months ahead," Ms. Aaron says. "It would be nice to change things around at the last minute, like the networks do."

So PBS must forge ahead, despite what the competition does, and the results can be encouraging.

"The start of our three-part program on opium was on a Sunday, against 'Battlestar Galactica' on ABC, and it did very well for public television," Ms. Aaron says. "That tells us we're not just talking to ourselves."

Public affairs doesn't mean dull, and indeed a lot of what PBS does in that category is to say the least controversial. Two upcoming films, "California Reich" about the Nazi movement in American, and "The New Klan," already have stirred considerable furor.

"We know there's an audience out there that wants to be informed as well as entertained," Chloe Aaron says.

Big Bend Orchestra starts season today

ALPINE — The Big Bend Chamber Orchestra initiates its third season with a concert at 7 p.m. today in Graves-Pierce Gym at Sul Ross State University.

The program, titled "Music for Children of All Ages," will be of interest to adults as well as young people, said Dr. Errol Gay, conductor and musical director of the orchestra.

Members of the ensemble include more than a dozen musicians from Midland, Odessa and El Paso, as well as players from Alpine and nearby areas of the Big Bend region.

For this season-opening event, which has been scheduled for 7 p.m. to allow school children from area towns to attend, Gay has programmed three works. They include the "Peter and the Wolf" suite by Prokofiev and Saint-Saens' famous "Carnival of the Animals," as well as a sparkling set of dances by Shostakovich.

Gay will narrate the works as they are played so the young people in the audience will have something verbal to relate to, the music director explained.

This concert will be under the baton of guest conductor Yves L'Helgoul'ch, who is music director of the Irving Symphony Orchestra, as well as conductor of the Fort Worth Civic Orchestra. This will be the first concert of the local orchestra to have a guest conductor.

The concert is being held in the SRSU gymnasium because the university's main auditorium currently is undergoing extensive renovation, Dr. Gay said.

"The gym will present some acoustical problems," he said, "but we are hopeful that the music programmed for this concert will lend itself better than most to this setting."

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MCT happenings quite splendid

Midland Community Theatre's old Theatre Centre was a busy place in its time, but MCT's new home, Theatre Midland, is obviously even busier these days and nights.

Not just one, but two major productions currently are playing at the splendid new structure on West Wadley avenue which MCT occupied several months ago and which it officially opened with a series of special "happenings" during September and on into the current month.

"The Effect of Gamma Rays on Man-in-the-Moon Marigolds," a searching and serious drama by Paul Zindel, had its first presentations in late September and then, after a break in the schedule, resumed performances this weekend in Theatre II, the arena-type performing area inside Theatre Midland.

Then, Friday night, MCT opened its 200th major production, a revival of the comedy "Stalag 17," in Theatre I, the main auditorium within the new structure.

Both "Gamma Rays" and "Stalag 17" will have performances through the remainder of this month. As the saying goes, you can pay your money and take your choice between high drama and moderately high comedy.

Or better still, plan your schedule and go see them both. "Gamma Rays" will play next Friday and Saturday nights, with concluding performances to be offered Oct. 27 and 28.

"Stalag 17" will have performances this coming Thursday, Friday and Saturday nights, and next Sunday afternoon, and additional presentations on the evenings of Oct. 26, 27 and 28. The Theatre Midland box office telephone number is 682-4111.

"Gamma Rays" is playwright Zindel's tautly-dramatic play about a widow, beset with problems (most of them of her own making) and her two daughters. MCT managing director Rick Schiller has assembled an excellent cast (an all-female cast) and I found the production highly engrossing. It's not a happy play but it's certainly a deeply moving and frequently disturbing one. It's first-rate theatre.

The central role, the mother Beatrice, is splendidly and sensitively portrayed by Trudie Thomason. Daughters Ruth and Tillie are given skillful portrayals by Lori Skelton and Kitty King, and LaMoyne Bass has the part of a senile boarder, Nanny. Rounding out the cast is Laura Wolf as a high school student who, along with Tillie, is a prize-winner in a school science fair. (The play's title comes from Tillie's science fair experiment involving gamma rays on marigold seeds.)

A review

The small, intimate Theatre II lends itself very well to the staging of "Gamma Rays," and I personally am looking forward to seeing other serious and/or "experimental" stage works done there—perhaps some Harold Pinter plays, or Albee stage works, or new and unpublished works by local or regional playwrights. The possibilities are virtually limitless.

I must confess I did not have an over abundance of enthusiasm for "Stalag 17," but in its opening performance Friday night, it turned out to be remarkably good entertainment. This is due in part to a good script which seems to have worn its age gracefully, and partly to a cast which in the main is excellent.

The all-male cast, which includes a number of performers new to the MCT stage, plus a few who are new to any stage, handles its collective and respective responsibilities very well.

Strong in their roles are John Meyer as Stosh, Mark Tepperman as Harry, Al Beatty as Al, William A. Salt as Sefton, Hampton Hodges as Price, Rick Belding as Dunbar, Bill Coombes as Duke. Still others who do good work in the play are Jack Scannell as a German guard, Chris Johnson as Herb, Joe Hill as McCarthy, Charles Luccous as Horney, Gary Anderson as Marko, Brian Sayre as Schultz, Jim Hicks as Reed, David Willis as Peterson, Norm Larson as Red Dog, Lynn D. Durham Jr., as a German captain, Dean McLain as the Geneva Man and John McMahon as a guard.

As you probably recall, "Stalag 17" revolves around a group of American airmen in occupying a barracks in a German prison camp during World War II. It's not greatly unlike the long-running TV series "Hogan's Heroes" (or perhaps the TV series is not greatly unlike "Stalag 17") in its humor and dramatic thrust. The humor of "Stalag" seems relatively fresh and undiluted by time. What's more, the suspense which builds up as the men try to discover the identity of a enemy spy planted in the barracks, and as the airmen try to save one of their men by hiding him from the SS guards, provides some highly entertaining dramatic tension.

"Stalag 17" was initially staged here 25 years ago as MCT's 50th major production. Art Cole directed that production and he also has directed the new one. The current production seems nicely authentic as to costumes and stage props, and the barracks set is effective and believable.

—ROGER SOUTHALL.

Permian Playhouse season continues

ODESSA — The Permian Playhouse, Odessa's community theater, continues its 1978-79 season with one of the most acclaimed mystery thrillers of the 20th Century.

"The Mousetrap," famous mystery play by the late Agatha Christie, will open at the Playhouse Friday night, with performances to continue each weekend through Nov. 4. The six performances will all have 8 o'clock curtains.

"The Mousetrap," which has been running more than 25 years in London's West End, is being staged and directed by Michael Madach, the new director at PPH. Sets and lighting are by PPH technical director Cathleen McNulty, and Peg Wilson is production stage manager.

Filling pivotal roles in the production are PPH stalwarts Flo Hughes, Gary Lipscomb and Bill Weir. Others in the cast in supporting roles include Barbara Iglehart, Rogers Berggren, Patrick Moore, Patricia Riesgraf and Michael Madach.

The Playhouse box office, 362-2329, has opened to accept seat reservations for all Friday and Saturday performances of "The Mousetrap." Permian Playhose is located at 310 W. 42nd St., adjacent to the Ector County Coliseum grounds.

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TV to resurrect Buck Rogers' saga

HOLLYWOOD (AP) — If "Battlestar Galactica" doesn't have you spaced out, hang onto your inertron belt because here comes "Buck Rogers."

Buck Rogers was the earthman sealed in a cave in suspended animation for 500 years and first released in 1929 in the comic strip by Dick Calkins and Philip Nowlan.

"Buck Rogers" was a granddaddy of the space age, along with Jules Verne's Victorian voyagers and Edgar Rice Burroughs's Capt. John Carter.

Buck, in his exploits with Wilma Deering and Dr. Huer, helped popularize space travel, and more than any of his predecessors offered a basis of reality and plausibility. The strip anticipated nuclear energy, television, and the laser, as well as equal rights for women.

In the strip, Buck was trapped deep in a cave near Pittsburgh and was preserved by a "peculiar gas which had defied chemical analysis." It had a Rip Van Winkle air to it.

"We're a little more modern," says Gil Gerard, who plays Buck in a two-hour movie being readied for NBC. "He's frozen in 1987 while exploring deep space and his ship is finally discovered by the Draconians."

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Fish and Chicken Dinner Honoring Our Next Governor
JOHN HILL
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Midland County Exhibit Building
$5.00 per person Call 683-3323
Pol ad paid for by Midland County Hill Committee, Reagan H. Legg, chairman

Your Best Vacation Value.

Here's a vacation that's got everything to offer, including the best value! A Caribbean cruise vacation that gets you off to a flying start as you head for Miami and your "Fun Ship", the tss CARNIVALE or the tss MARDI GRAS.

No other Fly-Cruise offers the variety of the "Fun Ships". They have the liveliest entertainment, the plushest casinos, and the greatest array of fun things to do. And their International and American cusine is superb.

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tss CARNIVALE departs Saturdays for San Juan, St. Thomas and St. Maarten.
tss MARDI GRAS departs Sundays for Nassau, San Juan and St. Thomas.
tss FESTIVALE, the sixth largest ship in the world, will commence service October 28, 1978.

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CONTINENTAL

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EARLY BIRD ALL SEATS $1.50 UNTIL 1:30
FEATURES 1:00-3:00 5:00-7:00-9:00

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EARLY BIRDS ALL SEATS $1.50 UNTIL 1:15
FEATURES 12:45-3:00 5:15-7:30-9:45

FARRAH FAWCETT-MAJORS
JEFF BRIDGES
SOMEBODY KILLED HER HUSBAND
PG
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FINAL WEEK

Richard Dreyfuss.
Moses Wine Private Detective.
...so go figure
the Big Fix
RICHARD DREYFUSS
SUSAN ANSPACH
BONNIE BEDELIA
JOHN LITHGOW
OFELIA MEDINA
FRITZ WEAVER
"THE BIG FIX"

EARLY BIRD ALL SEATS $1.50 UNTIL 1:45
FEATURES 1:15-3:15-5:15-7:15-9:15
slithis
NOMINATED FOR 7 AWARDS BY SCI-FI HORROR ACADEMY!
ONE WEEK ONLY

EARLY BIRD ALL SEATS $1.50 UNTIL 2:00
FEATURES 1:30-3:30-5:30-7:30-9:30
The Most Romantic Love Story of the Year.
If Ever I See You Again
PG
FINAL WEEK!

Weekly activity on New York Stock Exchange

NEW YORK (AP) — The week in New York Stock Exchange issues:

A

Sales PE hds High Low Last Chg.

ACF 2.10 9 240 36½ 35¾ 36¼+ ⅝
AMF 1.24 10 y371 u23¾ 22¼ 22½— ¼
APL 1 15 381 12 11¼ 11⅜— ⅛
ARA 1.64 10 191 43½ 42½ 43⅛+ ⅝
ASA 1 .. 2448 31¼ 29¾ 29½— ⅜
ATO .48 7 411 12¼ 11⅜ 11⅜+ ⅛
AbbtLb .84 15 4026 35⅞ 34⅛ 34⅞+ ⅝
AcmeC 1 9 211 23 22⅛ 23 + ⅝
AdmDg .04 8 181 5⅜ 5¼ 5⅜+ ⅛
AdaEx 1.11 .. 270 13 12⅜ 12⅜ ..
AdmMl .20e 9 2x2 7¼ 6⅝ 6⅞— ⅛
Addrsg .28 11 891 28½ 27⅝ 28 + ¼
AetnaLf 2.20 5 2035 42½ 41⅜ 41⅝ ..
Aguirre .. 34 14½ 14¼ 14½+ ⅛
Ahmans 1 5 242 25⅜ 25⅛ 25⅜+1¼
Aileen 189 3½ 3¼ 3⅜+ ⅛
AirPrd .60 11 2189 28⅛ 27⅞ 27⅞— ¼
AirbFrt 1 13 202 24¼ 22 23¼+ ⅝
Akzona .80 16 285 15 14⅛ 14¼— ⅛
AlaGas 1.40 5 23 16⅜ 16⅛ 16⅜+ ⅛
AlaP dpf .87 188 8⅞ 8⅝ 8⅝ ..
AlaP plc 9 z300 93 92 92½+ ⅜
AlaP pf 11 z290 108 107 107½+ ½
AlaP pf 9.44 .. 124 100 96⅜ 97 —1½
AlaP pf 8.16 .. z510 86⅜ 86⅜ 86⅜+2¼
AlaP pf 8.28 .. z520 84½ 83 83½+ ⅛
Alaskin .66 16 328 18¼ 17½ 17½— ¼
Albany 1 11 331 36½ 33½ 35½+2¼
Alberto .36 14 102 9 8¾ 8⅞+ ⅛
Alberto .36 11 153 42⅜ 40⅝ 40⅝+6⅜
AlcanA 1.40 6 6509 u37 35¼ 35½+ ¼
AlcoStd 1.16 7 99 30 29½ 29½— ¼
Alexdr .40 10 98 7⅛ 6¾ 6⅞— ⅛
AllgCp .80a 9 606 25¼ 23⅛ 25¼+1½
AllegAir 3 1019 12⅜ 12¼ 12¼ ..
Allg pf 1.87 .. 104 26¼ 25⅞ 26⅛+ ⅜
AllgLd 1.28 8 428 18½ 17⅞ 18 — ⅛
AllgL pf 3 .. 44 37 36½ 36¾— ⅛
AllgL pr2.19 .. 247 23½ 23¼ 23⅜+ ⅛
AllgPw 1.72 9 1975 18⅜ 17⅝ 17¾— ⅜
AllenGp 1 7 194 18½ 17⅜ 18 + ⅛
Allergan .50 15 164 31⅛ 29⅜ 29⅛—1¾
AlldCh 2 8 1942 37¼ 35⅝ 36⅞+1½
AlldMnt .80 9 369 13 12¼ 12½+ ¼
AlldPd .60 27 15 16 15⅝ 15⅝— ⅛
AlldStr 1.40 6 880 25¾ 25⅛ 25⅛— ¼
AlldSup 137 2⅜ 2⅜ 2⅜ ..
AllisCh 1.50 6 1301 38⅜ 35 35¼— ⅝
AllrAu .80b 12 43 16¼ 15⅝ 15⅞— ⅛
AlphPr .72a 6 76 20⅛ 20⅛ 20½+ ¼
Alcoa 2 8 5986 u53 49¼ 52 +3¼
AmlSug 1 76 31 20⅜ 19⅜ 20⅜+1½
Amax 2.20 38 2457 51¼ 48 48⅜—2
Amax pf5.25 .. 136 123 116½ 116½—4½
Amax pf 3 .. 150 47¼ 45 45 —2
Amcord 1 8 590 u20¼ 19¼ 19⅝+ ⅛
Amrce 1.20 6 113 22⅛ 21⅜ 22¼ ..
Amrc pf2.60 .. 10 38 37½ 37¾+ ¼
AHess 1b 10 1321 32⅛ 31¼ 32 + ⅝
AHes pf 3.50 .. x155 72 70½ 71 +1¼
AmAir .40 6 1566 17⅞ 16⅝ 17 — ¼
AmBrd .. 889 7⅞ 7¾ 7⅞— ⅛
AAir pf 2.18 .. 1506 20⅞ 20½ 20⅞ ..
ABaker 1.20b 7 31 18¼ 17⅝ 18 + ⅛
ABrnds 3.50 8 644 52 50 51⅜+1⅛
ABrd pf 1.70 .. 12 24⅝ 24½ 24½— ⅜
ABdest 1.40 9 575 59¼ 57⅜ 58⅜+1½
ABdc pf1.20 9 1516 u43¼ 38⅝ 40⅜+3¾
ABgas .60 9 61 18½ 17⅞ 18⅛+ ⅛
AmCan 2.70 7 255 39⅛ 39⅜ 39⅝— ⅛
ACan pf 1.75 .. 13 21½ 21¼ 21¼ ..
ACentry .. 137 4⅛ 3⅝ 4⅛+ ⅛
ACredt 1.30 11 224 44⅛ 43⅛ 43⅜+ ⅜
ACyan 1.50 10 1991 30 28⅝ 29 — ⅜
AmDistl 69 11⅛ 10⅝ 11⅛+ ⅜
ADT 1.08 11 213 30 28⅜ 29 ..
ADualVt .. 48 11 11 11 ..
ADul pf .84a 7 14 14⅛ 14½ ..
AElPw 2.18 10 2105 23⅜ 23⅛ 23⅜+ ⅛
AmExp 1.60 9 4305 35¼ 33⅜ 34⅝+ ⅛
AFamil .60 6 530 14½ 13⅜ 13⅜+ ⅜
AmFnSys 13 48 8⅜ 8⅛ 8⅜ ..
AFnSy pf x430 26⅜ 26¼ 26¼— ⅛
AGIBd 1.96e 168 22⅝ 22 22½+ ⅛
AGnCv 1.32 .. 97 18⅜ 18¼ 18½— ⅛
AGnIns .90b 4 890 26½ 25⅞ 26¼ ..
AGIn pf 1.80 .. 38 33¼ 32⅜ 33¼+ ½
AGIn pf .90 6 26 28 28 28 —1
AHeritLf .40 9 35 11⅛ 11¼ 11⅜+ ⅛
AmHoist 1 8 602 18⅜ 18 18¼— ⅜
AHome 1.30 14 5503 29⅝ 29 29¼— ⅜
AHome pf 2 .. 2 132 132 132 —1½
AmHosp .68 13 4552 28 26⅝ 27¼+1¼
AmInv 1.30 28 847 u11 10⅝ 11 +⅛
AMI .80b 11 x499 29 27⅞ 28⅛ ..
AmMotrs 54 2130 6⅜ 6¼ 6⅜— ⅛
ANatR 3 8 1052 48½ 44⅞ 45⅝— ⅝
AShip .80 6 131 14⅛ 14⅛ 14⅛— ⅜
AStand 2.40 7 525 50¾ 49¼ 49⅝— ⅝
A Std pf 4.75 .. 4 130¼ 130 130¼+ ¼
ASterll .32 20 424 8⅜ 8¼ 8⅜— ⅛
AmStrs 2.24 7 82 36⅛ 35¼ 36⅛+1¼
ATT 4.60 8 9745 u64¼ 63 64 + ⅜
ATT pf 4 .. 113 u67¼ 66½ 66⅝+ ½
ATT pf 3.64 .. 133 48⅜ 46¾ 48⅛+ ½
ATT pf 3.74 .. 84 48 47¾ 47⅞+ ⅛
AWatWk .84 5 65 12⅝ 12 12⅜+ ⅛
AWat pf 1.43 .. z220 17¼ 17 17 + ⅛
AWat pf 1.25 .. z520 13 13 13 ..
AWa 5pf1.25 .. x700 14¼ 13¾ 14 ..
Ameron 1 7 42 19⅜ 19⅜ 19⅜ ..
AmesD .40 6 121 14⅜ 13 14⅛+1⅛
Ametek 1.60 10 281 34⅜ 32¼ 34½+ ⅜
Amfac 1 7 399 19¼ 18⅛ 18⅝+ ⅜
AMIC .20 10 1617 23½ 23 23⅜— ⅛
AMPInc .60 15 1314 35¼ 34⅛ 34⅝— ⅜
Ampco .60 8 23 15 14⅞ 14⅞— ⅛
Ampex 14 1085 17⅜ 16½ 17½+ ⅛
AmrepCp 137 4⅜ 4½ 4⅜ ..
Amstar 1.35 12 143 18½ 16⅜ 17⅜+1
Amst pf .68 .. 19 7¾ 7¼ 7¾ ..
Amst pf 2.65 .. 2 48 48 48 + ⅛
Amsted 1.48 9 669 41½ 39 39 —2¾
AnchrH 1.60 7 382 31 30¼ 30⅝— ⅛
AndClay 1 9 416 25⅝ 25¼ 25⅝+ ⅜
Angelica .30 9 208 8 7⅞ 7⅞— ⅛
Anixter .32 10 148 11¼ 10⅞ 11⅛+ ⅜
AnsulCo .53t 10 167 16¼ 15¼ 15⅝ ..
Apache .50 12 294 23⅜ 22¼ 22¼—1⅜
ApldDig 12 3692 14⅜ 13⅜ 14¼+ ⅜
ApldDig pf 1 .. 8 33⅛ 33 33 ..
ApplMg .20 162 9½ 8⅝ 9¼+ ⅜
AreaN .84 8 262 23½ 22⅜ 23¼+ ⅜
ArchrD .20b 10 1060 17⅜ 16⅞ 17⅜+ ⅜
ArcticEnt 11 136 10¾ 9⅞ 9⅞— ⅛
Aristar 8 411 6¼ 5⅝ 6¼+ ¼
ArizPS 1.68 7 1329 20⅛ 20½ 20⅝+ ⅛
AriPpf 10.70 .. x450 111 109½ 111 +1
ArkBst .60 8 226 17⅜ 15⅝ 16⅛+1½
ArkLGs 2.20 7 304 32¾ 31⅛ 32 + ⅛
ArlenRty .. 2108 4⅜ 4⅜ 4½— ⅛
Armada 15 35 6¼ 6¼ 6¼— ⅜
Armco 6 1812 u22¾ 22 22¼+ ¼
Arm pf 2.10 .. 82 29½ 28¾ 29¼+ ¼
Armr pf 4.75 .. x180 54¾ 54¾ 54¾+ ¼
ArmstCk 1 11 704 20¼ 19¼ 20¼+ ⅝
ArmC pf3.75 .. x150 46 45½ 45½+ ⅛
ArnPr 1.20 6 1175 u32 28⅝ 29¼— ¼
AroCorp 1 10 58 21 19⅝ 19⅝—1¼
Arvin 1 4 362 17¼ 16⅜ 16⅝ ..
Arvin pf 2 .. 26 28⅜ 27⅞ 28 ..
Asarco .40 .. 1509 16⅜ 15⅝ 16⅜+ ⅛
AshlOil 2 9 3823 46½ 45⅝ 45⅞— ⅛
AsdDG 1.50 7 2574 20 19 19⅜+ ⅛
Athlone 1 6 42 19 18⅜ 19 + ⅛
AtCyEl 1.74 12 245 21⅛ 21¼ 21⅜— ⅛
AtlRich 2.40 9 5544 u57¾ 53⅞ 55⅝+1½
AtlRe pf 3 .. o ul93 186 189 +6
AtlRe pf3.75 .. x520 45½ 45 45 — ⅝
AtlRe pf2.80 .. 149 u68¼ 64½ 66¼+1½
AtlasCp .. 179 13⅜ 12⅜ 12⅞+ ⅛
AutoDta .52 18 551 33⅜ 33 33⅜+ ⅛
AvcoCp 1 3 1236 32 29¼ 29½—1¼
Avco pf 3.20 .. 19 66½ 64½ 64½—1½
Avco pf 4.20 .. 18 77 73⅜ 73⅝—2⅜
Avery .52 10 490 17⅜ 16¼ 16½—1¼
Avnet .70 8 679 21⅞ 20⅞ 21 — ⅝
Avnet pf 1 .. 2 45 43¾ 43¾—3¼
Avon 2.60 16 3345 59 55⅜ 58¼+2⅜

B

BT Mtg 109 2½ 2⅜ 2⅜— ⅛
Bache .40a 14 534 9⅞ 9 9⅜+ ⅛
BakrInt .44 14 1394 35 32⅝ 34½+2¼
BaldwU 1 6 88 23¾ 21¼ 22⅛+1⅜
BldUpf 2.06 .. 30 34⅜ 33 34⅛+1
BallCp 1.20 7 85 27⅜ 26⅛ 26⅝— ⅜
BallyMf .10 22 3302 51⅛ 47¼ 50 +1¼
BaltGE 2.28 8 1186 26⅜ 25⅝ 25⅝— ⅜
Balt pfB4.50 .. x1160 52½ 50½ 51 + ⅜
BanCal .72 6 94 23 22⅜ 23 +⅛
Bandag .50 11 394 16½ 15⅝ 16½ ..
BangPnt .60 6 216 29¾ 28⅜ 28½— ⅛
BanP pf 1.25 .. 12 29½ 28⅜ 29¼— ⅜
BanP pf 2 .. 6 40¼ 38¾ 40¼+ ½
BnkNY 2.44a 7 222 u38 35½ 37⅞+2¼
BkofVa 1.04 6 407 u17⅜ 16⅜ 16⅝+ ¼
BnkAm 1.10 9 8730 u29⅞ 27½ 28¾+1¼
BankTr 3 7 633 39 37½ 38⅛+ ⅛
BkTr pf 2.34 .. 58 37¼ 37¼ 37¼ ..
BkTr pf 4.22 .. 1 49½ 49½ 49½ ..
Banner .10 21 171 17 16 16½— ⅜
Barber 1.60 10 91 25⅜ 25⅜ 25⅜— ⅜
BardCR .32 15 2137 u18⅜ 17¼ 17¾ ..
BarnsGp 1 8 87 u28 26⅜ 26⅝— ⅛
BarryW .72 11 104 29¼ 27¾ 28 —1¼
BasicIn 1.20 10 196 32½ 31¼ 31¼— ¾
BatesMf .80 42 523 65⅜ 63¼ 63¾—1⅜
Bausch 1.40 9 606 46¼ 42⅜ 43 —2¾
BaxtTrv .40 17 2383 43⅜ 42⅛ 42⅞+ ⅛
BayColP 50 1204 4⅝ 4⅜ 4½ ..
BayStG 1.96 8 53 21⅝ 21¼ 21½+ ⅛
BaykCig .48 6 100 9¾ 9¼ 9⅝+ ⅛
Bearing .80 9 323 26¼ 25 26¼+1¼
BeatFd 1.08 10 2167 26⅝ 26¼ 26½+ ⅛
BeatF pf3.38 .. 117 56¾ 55⅜ 56⅛+ ¼
Beckm .44 16 378 43¼ 42⅜ 42⅝— ⅛
BectnD .72 14 880 38⅝ 37⅞ 38⅛+ ⅛
Beech .80b 10 1047 29⅝ 28¼ 29¼+ ⅜
Beker 200 5 4¼ 4⅛ 4⅛— ⅜
BeicoP 1 9 297 u39⅞ 38⅜ 39¾+1¼
Belden 1.44 6 48 23 22⅜ 22⅜— ⅛
BeldnH .36b 10 50 8 7⅞ 8 ..
BellHow .96 9 129 21⅛ 20¼ 20¼— ⅝
BellInd .12a 7 258 8 7⅞ 8 ..
BellCd 4.20 8 164 u53⅜ 52⅞ 53⅛+ ⅜
Bemis 1.40 7 210 23⅜ 22⅝ 23⅜+1¼
Bendix 2.28 7 383 40⅜ 38¼ 39⅛+ ⅜
Bendix pf 3 .. 2 80 80 80 ..
BenfCp 1.80 7 581 25⅝ 25¼ 25⅜— ⅜
Benef pf4.30 .. 25 48 d45¾ 48 +1
Benef pf4.50 .. x190 50 50 50 ..
Benef pf5.50 .. x40 113¼ 113¼ 113¼+ ⅝
Benef pf2.50 .. x270 27 26⅝ 27 + ¼
BengtB 11 1062 5 4⅝ 4⅝— ⅛
BerkeyP 24 553 7⅜ 7¼ 7½+ ⅛
BestPd .16 11 1227 30½ 28⅝ 29¼+ ¼
BethSt 1 1 4799 25½ 24 24⅛+ ⅜
BigThr .72 14 713 38½ 37 37½+ ¼
Binney .88 10 94 24 23¼ 23⅜— ⅛
BisFSL 1 6 109 24 23¼ 23¾— ¼
Ameron 1 7 42 19⅜ 19⅜ 19⅜ ..
AmesD .40 6 121 14⅜ 13 14⅛+1⅛
Ametek 1.60 10 281 34⅜ 32¼ 34½+ ⅜
Amfac 1 7 399 19¼ 18⅛ 18⅝+ ⅜
AMIC .20 10 1617 23½ 23 23⅜— ⅛
AMPInc .60 15 1314 35¼ 34⅛ 34⅝— ⅜
Ampco .60 8 23 15 14⅞ 14⅞— ⅛
Ampex 14 1085 17⅜ 16½ 17½+ ⅛
AmrepCp 137 4⅜ 4½ 4⅜ ..
Amstar 1.35 12 143 18½ 16⅜ 17⅜+1
Amst pf .68 .. 19 7¾ 7¼ 7¾ ..
Amst pf 2.65 .. 2 48 48 48 + ⅛
Amsted 1.48 9 669 41½ 39 39 —2¾
AnchrH 1.60 7 382 31 30¼ 30⅝— ⅛
AndClay 1 9 416 25⅝ 25¼ 25⅝+ ⅜
Angelica .30 9 208 8 7⅞ 7⅞— ⅛
Anixter .32 10 148 11¼ 10⅞ 11⅛+ ⅜
AnsulCo .53t 10 167 16¼ 15¼ 15⅝ ..
Apache .50 12 294 23⅜ 22¼ 22¼—1⅜
ApldDig 12 3692 14⅜ 13⅜ 14¼+ ⅜
ApldDig pf 1 .. 8 33⅛ 33 33 ..
ApplMg .20 162 9½ 8⅝ 9¼+ ⅜
AreaN .84 8 262 23½ 22⅜ 23¼+ ⅜
ArchrD .20b 10 1060 17⅜ 16⅞ 17⅜+ ⅜
ArcticEnt 11 136 10¾ 9⅞ 9⅞— ⅛
Aristar 8 411 6¼ 5⅝ 6¼+ ¼
ArizPS 1.68 7 1329 20⅛ 20½ 20⅝+ ⅛
AriPpf 10.70 .. x450 111 109½ 111 +1
ArkBst .60 8 226 17⅜ 15⅝ 16⅛+1½
ArkLGs 2.20 7 304 32¾ 31⅛ 32 + ⅛
ArlenRty .. 2108 4⅜ 4⅜ 4½— ⅛
Armada 15 35 6¼ 6¼ 6¼— ⅜
Armco 6 1812 u22¾ 22 22¼+ ¼
Arm pf 2.10 .. 82 29½ 28¾ 29¼+ ¼
Armr pf 4.75 .. x180 54¾ 54¾ 54¾+ ¼
ArmstCk 1 11 704 20¼ 19¼ 20¼+ ⅝
ArmC pf3.75 .. x150 46 45½ 45½+ ⅛
ArnPr 1.20 6 1175 u32 28⅝ 29¼— ¼
AroCorp 1 10 58 21 19⅝ 19⅝—1¼
Arvin 1 4 362 17¼ 16⅜ 16⅝ ..
Arvin pf 2 .. 26 28⅜ 27⅞ 28 ..
Asarco .40 .. 1509 16⅜ 15⅝ 16⅜+ ⅛
AshlOil 2 9 3823 46½ 45⅝ 45⅞— ⅛
AsdDG 1.50 7 2574 20 19 19⅜+ ⅛
Athlone 1 6 42 19 18⅜ 19 + ⅛
AtCyEl 1.74 12 245 21⅛ 21¼ 21⅜— ⅛
AtlRich 2.40 9 5544 u57¾ 53⅞ 55⅝+1½
AtlRe pf 3 .. o ul93 186 189 +6
AtlRe pf3.75 .. x520 45½ 45 45 — ⅝
AtlRe pf2.80 .. 149 u68¼ 64½ 66¼+1½
AtlasCp .. 179 13⅜ 12⅜ 12⅞+ ⅛
AutoDta .52 18 551 33⅜ 33 33⅜+ ⅛
AvcoCp 1 3 1236 32 29¼ 29½—1¼
Avco pf 3.20 .. 19 66½ 64½ 64½—1½
Avco pf 4.20 .. 18 77 73⅜ 73⅝—2⅜
Avery .52 10 490 17⅜ 16¼ 16½—1¼
Avnet .70 8 679 21⅞ 20⅞ 21 — ⅝
Avnet pf 1 .. 2 45 43¾ 43¾—3¼
Avon 2.60 16 3345 59 55⅜ 58¼+2⅜

C

CBS 2.60 8 1069 57¼ 55¾ 56½+ ¼
CCI 5 423 9⅞ 9¼ 9¼— ⅜
CI Rty 86 13⅜ 13⅜ 13⅜— ⅛
CIT 2.40 8 1418 34¾ 33¾ 33¾— ⅝
CLC .24 61 14¼ 13¾ 13¾— ½
CNA Fn 4 1185 11⅝ 10⅜ 11⅜+ ⅜
CNA pf 1.10 .. 189 16½ 16 16¼+ ⅛
CNAI 1.08a 72 12⅜ 11½ 11½— ⅜
CPC 2.70 10 433 54 51 53¾+2¾
CP Nat 1.64 10 43 16⅞ 16¼ 16⅞+ ½
CTS .70 8 87 18 18 18⅜+ ⅛
CabotC 1.20 8 214 36⅜ 35½ 35⅝+ ⅜
Cadence 6 121 12⅜ 11½ 11⅝ ..
Caesars 26 2415 44⅞ 40¾ 43 +3
Callhn .40b 17 603 u17¼ 16 16½+ ⅜
CamerB 7 126 4¼ 3¾ 4 + ⅛
CmpRL .60a 23 472 39⅜ 36½ 36½—2½
CamSp 1.60 10 663 36 34 35¾+1¾
CampT .96 8 120 28¼ 27½ 27¾— ¼
CdPac .90a 6 1910 21½ 20¼ 21 + ⅝
CanBk .64 9 46 11⅞ 11⅜ 11⅝— ⅛
CapCits .20 13 775 44¼ 43 44 ..
CapHold .76 10 811 25½ 24 24⅜+ ⅜
CarlingO .32 22 3⅜ 3⅛ 3⅛— ⅛
Carlisle 1.28 6 45 28⅜ 26¾ 28⅛+2
CarCO 5 x380 58½ 58 58 ..
CaroFrg .40 6 118 8½ 8⅛ 8⅛— ⅛
CarPw 1.96 7 3150 22⅞ 22¼ 22¼ ..
CarP pf 2.67 .. 30 28½ 28 28 — ⅜
CarTec 1.60 8 434 29½ 26¼ 29⅛+3¼
CarrCp .80 8 8307 26⅛ 24¾ 26⅜+ ⅜
Carr pf 2.25 .. x330 37¼ 37¼ 37¼— ⅜
Carr pf 1.86 .. 609 47½ 44⅞ 47 + ⅜
CarrGn 1.01e 15 13 12½ 12½— ½
CarsPir 1 6 34 20½ 19¾ 20⅛— ⅜
CartHaw 1 8 556 18⅜ 18 18⅜+ ⅛
CartHw pf 2 .. 38 31⅛ 31⅛ 31⅛— ⅛
CartWal .40 11 228 8¾ 8½ 8½— ⅛
CaseNG .50a 22 50 7⅞ 7¾ 7⅞ ..
CastlCn .80b 9 703 21⅜ 20½ 20⅞+ ⅜
CatrpT 2.10 10 3047 61⅞ 57⅜ 60 +2¼
CecoCp .50 92 14⅞ 14½ 14⅝+ ⅛
Celanse 2.80 8 1404 43⅜ 42¼ 43¼+1
CELAN 11 49½ 48¼ 48½— ⅜
Cenco 14 950 7¼ 7 7⅛— ⅜
Centex .20 12 725 25 23¼ 23⅜— ⅜
CenSoW 1.34 8 2986 16½ 16⅛ 16¼+ ⅛
CenHud 1.96 7 51 21⅜ 21¼ 21⅛— ⅛
CenIlLt 1.60 11 191 17¼ 16⅞ 17¼+ ¼
CnILt pf4.50 .. x30 47¾ 47⅜ 47⅜— ⅛
CnILt pf2.87 .. x1740 29⅜ 29 29½+ ⅛
CnILt pf2.62 .. x2000 28 27⅛ 27¼— ⅛
CenIPS 1.28 11 859 13⅜ 13⅜ 13⅜+ ⅛
CenLaE 1.52 8 128 23⅜ 23 23 — ⅛
CeMPw 1.44 7 183 15⅞ 15⅝ 15⅞+ ⅛
CenSoya .76 9 274 15 14¾ 15 ..
CenTel 1.68 9 787 25⅞ 24¾ 25⅜+ ⅛
CentrDat 1 14 1713 36 32½ 33⅝—1½
Crt-teed .80 6 1440 24¼ 22½ 22½—1⅜
CessAir 1.44 13 498 47½ 45⅝ 47⅜+1⅛
Chmpln 1.24 8 3732 25⅛ 24¾ 24⅞— ⅛
Chml pf 1.20 .. 144 25¼ 24¾ 24¾— ⅛
ChamSp .72 8 991 11⅛ 11¼ 11⅜+ ⅛
ChartCo .24 7 448 6¼ 6 6⅛ ..
ChartCo wt 1359 1⅛ 1½ 1⅜ ..
ChrtNY 2.24 7 383 u35½ 34¾ 35½+ ¾
ChasFd .60e 185 9 8⅝ 8⅛+ ⅛
ChasM 2.20 8 2886 u37¼ 35⅝ 36⅝+ ½
ChasM pfB 107 77 76¼ 76¼—1
ChasM pfC 885¼ 85⅝— ⅛
Chelsea .50 6 99 13⅜ 13 13 ..
ChmNY 3 7 472 44¾ 42¾ 43½+ ⅝
ChNY pf1.87 .. 117 22¾ 22¼ 22¼+ ⅛
ChesVa 1.40 x5 236 47¾ 45⅝ 46⅜+1¼
ChesPn .94 13 874 25½ 24½ 24⅝— ⅛
Chessie 2.32 11 1139 30⅜ 30 30 —30¼+ ⅛
ChiBrl 2 10 383 58¾ 57¼ 58½+1½
ChiMlw 17 87 8⅞ 7⅞ 8⅛— ⅛
ChiMlw pf 41 29½ 28¾ 29¼— ⅛
ChiPneT 2 11 170 31⅛ 30 30 ..
ChkFull 21 224 6¾ 6½ 6⅝ ..
ChrisCft 91 598 10⅝ 10 10 ..
ChCft pf1.40 4 23¼ 23 23 — ⅛
Chromal 1.10 6 450 21⅜ 20½ 20½— ⅛
Chroma pf 5 6 82 80 81 +1
Chrysler 1 2031 11⅞ 11⅛ 11⅜— ⅜
Chrys wt 374 4 3¾ 3¾— ⅛
Chrysl pf2.75 .. 710 23¼ 22¾ 23⅛+ ⅜
ChurCh .44 14 751 28⅝ 27⅞ 28¼+ ¼
CinBell 2.32 6 77 29⅜ 29¼ 29⅜+ ⅛
CinGE 1.96 8 1339 21½ 21 21 — ⅛
CinG pf 4 x510 43¾ 43¼ 43½— ¼
CinG pf 4.75 .. x100 54 54 54 ..
CinG pf 9.30 .. x300 102½ 102¼ 102½+ ⅛
CinG pf 7.44 .. 142 86 84 84⅛—1¼
CinG pf 9.28 .. 115 105 101½ 101½—3
CinG pf 9.52 .. x130 108 105 105 —1½
CinMil .90 10 364 36⅛ 36¼ 36⅜+ ⅛
CincGE 1.36 6 177 25½ 24¼ 25½+1½
ConeMl 1.60 q 1183 27¾ 27 27¼— ¼
Congoim .80 8 3860 23¼ 21¼ 22½+1¾
ConnM 1.60 15 287 20¾ 19⅝ 20¼+ ⅜
ConNG 1.60 12 20 u18⅜ 18⅛ 18⅜+ ¼
Conrac .80b 11 60 22 21½ 21¾ ..
ConsEd 2.20 6 1383 24⅞ 24¼ 24⅜+ ⅛
ConEd pf 6 .. 26 79¾ 78¾ 79¾+1
ConEd pf 4.65 .. x200 50¼ 50¼ 50¼—1¼
ConEd pf 5 .. 8 50⅝ 50 50⅝— ⅛
ConFds 1.50 8 1777 25¼ 24¼ 24⅜+ ⅛
ConF pf 4.50 .. 11 65½ 63½ 65 +1
CnsFrt 1.10 7 586 30¼ 29¼ 29⅜ ..
CnsNG 2.76 7 804 40¼ 38⅝ 39½+ ⅝
ConsPw 2.24 8 1466 u25¼ 23⅜ 24⅛+ ⅛
CnPw pf4.50 .. t390 47 45½ 45⅝+ ⅛
CnPw pf4.52 .. x200 53 53 53 +1⅜
CnPw pf7.45 .. x2640 80½ 79½ 79½—2
CnPw pf7.72 .. x4250 84⅞ 84 84 — ⅜
CnPw pf7.76 .. x470 84½ 84½ 84½— ⅜
CnPw pf7.68 .. x750 86 83 83¼+ ¼
CnPw pr2.50 .. 18 25½ 25¼ 25¼— ⅛
CnPw pr2.23 .. 33 23⅜ 23 23 — ⅛
ConPw pf2.43 .. 18 25 24¾ 25 + ⅛
ContAir .45e 7 1779 14¼ 13⅜ 13⅜ ..
ContCop 202 5⅝ 5⅝ 5¾— ⅛
ContlCp 1.70 6 951 27 26¼ 26¾+ ⅜
CntlGrp 2.20 7 1248 31½ 30⅜ 31 + ⅛
ContGp pr 2 .. 29 24¾ 24¾ 24¾+ ⅛
Contill 1.44 7 1638 31⅞ 30⅜ 31⅛+ ⅜
ContlIP 1.28e 42 713 16⅞ 16 16⅜— ⅛
ContlOil 3 206 4¼ 3⅞ 3⅞— ⅛
ContlOil 1.40 9 3422 31 29¼ 29⅝+ ⅜
ContOilpf 2 .. 1 79 79 79 +2⅜
ContTel 1.24 9 2905 18⅝ 16 16¼+ ¼
CtlData .25 9 3539 39⅝ 38¼ 38⅝+ ⅜

CnDt pf 4.50 .. z640 48½ 47 48 —1½
Conwd 1.40 10 62 u30½ 29¾ 30½+1¼
CookUn .39t 17 270 5⅝ 5½ 5½ ..
CoopIn 1.44 9 1251 49⅝ 48½ 49 + ¼
CoopLab .40 12 384 22⅞ 21⅝ 22⅝— ¼
CoopTR .80 6 121 14 13¼ 13⅜+ ⅜
CopT pf 1.25 .. x5 15⅜ d14⅞ 15⅜— ⅛
CopInd .76 8 281 24½ 23½ 24 + ½
Coppwd 1.28 11 15 21¼ 21 21 ..
Cordura .30 14 201 5⅝ 5¼ 5½+ ⅛
CoreIn .64 7 9 17½ 17¼ 17¼+ ⅛
CornG 1.68 11 1346 62¾ 61 61½+ ⅜
CorrBlk 1.24 12 110 29 28⅜ 29 + ⅜
Cousins .. 181 123 3⅞ 3⅝ 3⅝— ⅛
Cowles .80 22 318 23¼ 22¾ 23⅛+ ⅛
CoxBdct .65 14 828 57⅞ 55½ 56 —1¼
Craig .50 6 272 13⅜ 13 13 — ⅛
Crane 1.40b 9 583 34⅝ 33⅝ 33⅝—1
CredtF .40 7 307 10¼ 9¾ 9⅞ ..
CrockN 1.80 6 580 29¼ 28½ 28⅝— ⅛
CrckN pf 3 71 43¾ 43 43½ ..
CrckN pf2.18 .. 148 27 26¼ 26¼— ⅛
CrompK .96 8 254 18 17⅝ 17¾— ⅛
CroneLt .. 1 11 253 26¼ 25⅝ 26¼+ ¼
CroH pf 3.35 .. 1 92 92 92 —1
CrwnCk 9 317 33¼ 32¾ 32⅝— ⅜
CrwZel 1.90 8 963 37½ 34¾ 36¼+1¾
CrnZ pf 4.20 .. z530 62½ 61 61 —2
CrumF 1.72 5 271 38¾ 37 38 +1
Culbro 1.40 6 276 16⅜ 15 16 + ½
CumEn 1.80 5 1075 37½ 35½ 35⅞—1½
CunnDrg .25 12 32 11 10¾ 10¾ ..
CurrInc 1.10 5 33 11¼ 11⅛ 11¼— ⅛
CurtW .80 10 160 18½ 17½ 17⅝— ⅛
CurtW A 2 .. 2 26½ 26 26½ ..
CutlerH 1.40 11 37 56⅞ 56½ 56½ ..
Cyclp 1.20a 5 134 30 28⅜ 29¾+1⅜
Cyprus .80b 11 718 20½ 19¾ 20 — ⅛

D

DPF 6 1139 u14¼ 13 14¼+1
Damon .20 450 7¾ 7 7⅜+ ⅛
DanRiv .72 9 2071 u14⅝ 13⅞ 14½+ ⅜
DanaCp 1.38 7 582 31⅞ 31 31⅜— ⅛
Daniel .22b 10 88 20 18½ 18½—1⅜
DartInd 1.60 9 1215 45⅞ 44¼ 44⅝+ ⅜
Dart pf 2 .. 78 45⅝ 45 45 + ⅜
DataGen 18 660 64¼ 61¾ 63 +1¼
DataTer .10i 21 663 47¼ 43⅞ 44⅞+1½
Datapnt 16 463 70¼ 67¾ 67¾— ⅜
Dayco .50b 4 178 16½ 16 16¼— ⅛
Dayc pf 4.25 .. z40 80 80 80 —1
DaytHd 1.60 4 817 39½ 37⅝ 39 +1
DaytPL 1.66 10 423 17¼ 16⅞ 17 + ⅛
DPL pf 7.48 .. z1010 81¾ 77 77 —4
DPL pf 7.70 .. z110 80 80 80 —3
DPL pf 7.37 .. z50 78⅝ 78⅝ 78⅝— ⅛
DPL pf12.50 .. z5030 117 115¾ 115¾— ¼
DPL pf 9.52 .. x130 108 105 105 —1½
DeMon 1.70 10 1389 43½ 42¼ 42½—1
DelmP 1.28 7 363 14¼ 13¾ 14 ..
DeltaAir 1 8 1090 49 48⅝ 49⅛+1
Deltec 3e 27 26 8⅛ 8¼ 8⅛ ..
Deltona 24 250 13⅜ 12¼ 12⅜— ½
DenMf 1.52 7 124 34½ 33½ 34⅜+ ⅝
Dennys .80 10 552 29¾ 28½ 29¾+ ⅜
Dentsply .80 16 556 20⅜ 18⅝ 19½+ ⅛
DeSoto 1 6 203 15⅜ 14⅛ 14½— ½
DetEd 1.52 9 904 16½ 15⅝ 15¾— ⅛
DetE pf 5.50 .. 5 69½ 69½ 69½— ½
DetE pf 9.32 .. z220 94½ 93½ 93½+ ½
DetE pf 7.68 .. z1060 78½ 78¼ 78½+ ⅛
DetE pf 7.45 .. z910 75½ 75½ 75½+1
DetE pf 7.36 .. z180 77¾ 76 76 ..
DetE pf 2.75 .. 70 26⅜ 25⅞ 26 — ⅛
DE pfB 2.75 .. 40 26⅜ 26 26 — ⅜
DetE pr 2.28 .. 30 22⅜ 22¼ 22¼ ..
Dexter n .80 10 188 u22 21¼ 21⅜+ ⅛
DiGior .48 9 6864 u14¼ 11¼ 13 +1½
DiGior pf.88 .. z2130 u22½ 18 18 — ⅜
DialCp 1.20 8 26 22¼ 21⅜ 21⅜+ ⅛
DiaInt 2.20 9 538 35½ 34⅜ 34½— ⅜
DiamS 1.40 6 3224 26⅜ 25½ 25⅝— ⅛
DickAB .20a 9 178 10¼ 9¾ 10⅛— ⅛
Dictaph .84 10 558 18½ 17⅜ 18⅜+1¼
Diebold .60 14 2533 u24⅜ 23⅛ 24⅛+ ⅛
DigitalEq 15 4352 52¾ 50¾ 50¾— ⅝
Dillingm .52 457 9½ 9 9⅛— ⅜
Dillngm pf 2 .. 3 23 23 23 —1⅛
Dillon 1.20b 11 68 32¼ 31¾ 31¾— ¼
Disney .32b 15 2377 44½ 42¼ 43¼+ ½
DivrsfdIn 759 u 3⅜ 3⅜ 3⅜+ ⅛
DivrsMtg 385 4⅞ 4½ 4⅝+ ⅛
DrPeppr .60 17 868 19⅝ 18⅝ 18⅝— ⅜
DomeM .80a 13 496 u95 88½ 88½—2¼
DonLJ .14 34 416 6 5½ 5⅝+ ⅛
Donnly .88 11 653 31¼ 30⅜ 31 + ½
DorOliv .60 9 37 23 21¾ 21¾— ⅜
Dorsey .60 7 281 18¼ 17 17 —

Weekly activity on American Stock Exchange

NEW YORK (AP) — The week in American Stock Exchange issues:

A

			Sales					
		PE	hds	High	Low	Last	Chg
AAR n	.38	9	35u	13¾	12⅞	13½	...
AAV	.32	7	74	5⅝	5⅛	5⅜	— ⅛
APS	.36	8	94	11⅛	10⅜	10⅜	+ ⅛
ASPRO	.72	7	30	19	18⅝	18⅝	— ⅛
ATI			4	1⅞	1⅞	1⅞	...
AVC	.60b		61	14⅛	13⅜	13⅜	— ⅛
AVX	.32	12	139	31⅜	30⅛	30⅜	+ ⅛
AZL		48	122	6¼	5⅜	5⅜	— ⅛
AZL pf	.48		11	5⅛	4⅞	4⅞	— ⅛
AbrdMf	.40b	5	44	9½	8⅝	8⅝	— ⅛
AcmePr			9	2½	2⅜	2⅜	— ⅛
AcmeU	.30	16	13	14	13¾	13¾	— ⅛
Action		103	42	4⅛	4	4⅛	...
ActonCp	.24b	9	170	13⅜	12⅝	12⅝	— ⅛
AdamR	.10	12	158	14⅛	13⅜	13½	— ⅛
AdobeO	.20	20	137	20⅞	20	20	— ⅛
AegisCp		7	465	2⅝	2⅜	2⅜	— ⅛
AeroFlo	.30	6	19	17	16⅝	17	+ ⅛
Aeronca		15	81	6¼	5¾	6	...
AffilCap	.20e	7	70	6⅝	6⅜	6⅜	— ⅛
AffilHsp	.24	8	11	7¼	7	7¼	+ ⅛
AffilPub	.64	9	13	21¼	21	21	— ½
AfterSix	.28	4	369	9⅛	8⅛	9	+1
AlskAir	.20r	5	269	7	6¼	6⅜	— ⅛
AlbaW	.10e	11	52	4⅜	4⅛	4¼	+ ⅛
Alcolac	.17e	8	38	7⅛	7⅜	7⅜	...
AllegA wtO			78	7⅛	7	7	— ⅛
AllegA wtN			173	1½	1	1⅛	— ⅛
AllgA pf	3		1	42	42	42	— ½
Alliant	.36e	19	13	6½	6½	6½	+ ⅛
AlldArt			2542	7	6⅜	6½	+ ⅛
AlmySt	.20e	8	4	7⅜	7⅜	7⅜	— ⅛
AlphaIn	.05e	12	63	8⅜	8⅜	8⅝	— ⅛
Altamil	.32e	5	55	10⅞	10¼	10¼	+ ⅛
AltecCp			490	1⅜	1½	1⅜	+ ⅛
Altec pf			1	7¼	7¼	7¼	+ ⅛
AlterFd	.50	7	23	16	15⅜	15⅞	— ⅛
Alcoa pf3.75			z1000	48	46¼	46¼	...
Amdhl	.40		261322	58⅜	54⅜	55⅝	+ ⅛
AmAgro		7	58	11½	10⅜	10⅜	— ⅛
AmBilt	.25		27	8⅛	8⅛	8⅜	+ ⅛
AmBrd wt			7	tu40½	35¼	38½	+3⅜
ABusPd	.36	7	50	9¼	8⅞	9	— ⅛
AmCapCp			53	4⅜	4	4⅛	+ ⅛
AContri	.52	8	5	9⅞	9¾	9¾	— ¼
AGarPd	.34	6	43	9¾	9⅛	9⅛	— ⅛
AIntPict			1063	11⅜	10	10	— ¼
ASraeli	.09e	3	46	3⅛	3	3	...
AMzeA	.44	8	63	8⅝	8⅝	8⅝	+ ⅛
AMzeB	.44	6	10	9⅛	8¾	9⅛	+ ⅜
AmMfg		9	41	43¼	42¾	43	...
AMdBld	.40	17	487	13⅜	12¾	13	— ⅛
AMotIn	.20	10	298	18⅞	18⅝	18¾	— ⅛
AmPetf	2.20	10	61	28¼	27¼	28	+ ⅜
APrecs	.36a	8	11	11¼	11¼	11¼	+ ⅛
ASciE	.04e		103	9¾	8⅞	9¼	+ ⅛
AmSeat	.40	20	20	14⅞	14⅜	14⅝	— ⅜
AmTec	.40	7	609	u14⅞	12⅜	14⅜	+1⅜
Andrea	.07e	43	1	3⅞	3⅞	3⅞	— ⅛
AngloC	.15e	10	545	16	14⅜	15¼	+ ⅛
Anken	.44	8	89	11⅛	11⅛	11⅜	+ ⅛
Anthon	.40	6	67	9½	9¼	9⅜	— ⅛
ApiDta	.16	11	100	14¼	13⅝	13½	— ⅜
ApidDev		31	743	11½	10	11	+ ½
AquitCa	.39	9	301	18⅜	16⅞	17	—1½
Armin	.12	10	191	u10⅝	10⅛	10⅜	+ ⅛
ArrowA	.10	7	29	9¼	8¼	9¼	+ ⅛
ArrowE	.20e	5	128	12¼	12	12¼	+ ⅛
Arundel		5	108	13¼	12⅜	12⅜	...
Asamer	.30		475	19¼	17⅝	18¼	...
AshIOC	.20	11	137	27¾	27⅜	27⅜	— ⅛
AskinSvc			46	1⅞	1½	1⅞	+ ⅜
Astrex	.10j	9	125	8⅞	8¼	8⅞	+ ½
Atalnta	.15e	5	38	6⅝	6¼	6½	+ ¼
Atco Ind			30	1⅜	1¼	1¼	— ⅛
AtlsCM		66	942	2⅞	2⅝	2⅝	— ¼
AtlasCp	wt		24	6	5⅞	5⅞	+ ⅛
Audiotr	.12h	9	150	9¾	7¾	9¼	+1¼
Augat	.44	16	91	29¼	27½	27⅝	—1⅜
AutoTrn			48	3⅜	3	3	— ⅛
AutBld	.08e	7	26	11½	11½	11½	...
AutmRad			101	3⅞	3⅜	3¾	+ ⅛
AutoSw	.80	13	28	37⅜	36½	37⅜	+1⅛
AVEMC	.30	c7	103	7¼	6½	7⅛	+ ⅜

B

BAT	.15e		2	6	5⅞	6	— ⅛
BRT			80	2	1¾	1⅞	...
BTU		13	55	5⅛	4⅛	5⅛	+ ⅜
Badger	.70	6	21	12⅜	12½	12½	— ¼
Baker	.20e		16	4	3⅞	3⅞	...
Baldor	.20	18	112	32¼	31	32	+1
BaldwS	.32a		22	7	6⅞	7	...
BanFd	1.11e		42	19⅛	19	19⅛	+ ⅛
Bangor wt			68	3½	3¼	3½	— ⅜
Banistr	.40	14	127	10¼	9⅞	10⅛	— ⅛
Barclay			18	2¼	2⅛	2¼	...
BarcoCa	.12	28	109	4¼	3¾	4⅛	— ⅛
BarnesE		17	14	8¼	7⅞	8⅛	+ ¼
Barnwl	.20	46	28	12⅜	11⅞	12	...
BarryR	.20b	16	189	22	20⅛	21	— ¼
BarthS	.20a	10	71	7½	7⅛	7½	+ ⅛
Bartons		23	34	3½	3⅛	3½	+ ⅛
BaruchF		34	35	2⅞	2¾	2¾	...
Barwick			26	3¼	3	3¼	...
BelsctR		11	12	2¾	2¼	2¾	...
BnfStA	.40	6	36	16⅜	15⅞	16	...
BnfStB	.40	6	6	16⅜	16¼	16¼	...
BergEnt		9	45	4½	4⅛	4⅜	...
BergenB		8	264	9¼	8⅞	9	...
BrgB pf	1.15		21	17	16½	16½	— ½
BernzO			165	4¼	3⅜	4	+ ⅜
Berven			35	2⅜	2¾	2¾	— ⅛
BethCp			9	3	2⅞	3	...
Beverly		16	428	8¾	8¼	8¼	— ⅛
BicPen	.48	11	35	11⅞	11⅜	11⅝	+ ⅛
Bickford		11	46	2½	2⅜	2½	+ ⅛
BigVSp	.36	6	3	12⅜	12¼	12¾	— ⅛
BinkMf	1b	8	44	u27	26⅛	27	+ ½
Blount	.48	8	97	24⅜	23	24¼	+2⅜
BodinAp	.10j		402	5⅝	4¾	5⅜	+ ⅜
BoltBer	.20		63	13⅜	12½	12⅞	— ⅜
BowVall	.20	17	686	u30¼	27¾	29¾	+ ⅜
BowmAr			28	137	5¼	4⅞	5¼	+ ⅛
Bowne	.36b		8	60	21⅜	20⅞	20⅞	— ½
BraddfN	.20	10	825	10⅞	9⅛	10	...
Branch	.20	15	32	4⅜	4	4⅜	+ ⅜
Braniff wt			66	18½	17½	17¾	— ⅜
Brascan	1a	3	611	u16		14½	15⅝	+ ⅜
BraunE	1.40	7	19	31⅜	30½	30½	— ⅜
BreezeCp		24	258	12		10⅜	11⅜	— ⅜
BristBr	.60	6	9	13¼	12⅞	12⅞	— ⅜
BroDart	.20	6	20	4¼	4	4¼	+ ⅛
BrodySe			7	2⅜	2⅜	2½	...
BrooksP	.44	12	16	17⅛	16⅜	16⅞	+ ⅜
BrownCo	wt		78	1½	1½	1½	...
BrnFA	.92	13	73	34⅛	32¼	34	+1⅝
BrnFB	.92	14	134	35⅝	33⅜	35¼	+1½
BrnF pf	.40		22	4⅞	4¾	4⅞	...
Buell	.44	6	57	16	15	15	— ⅛
Buildex			5	51	5	4¾	4¾	— ⅛
Burgess			44	3	2⅞	2⅞	— ⅛
Buring	1.10		8	5	15⅜	15⅜	15⅜	...
Burnsln	.60	12	92	14¾	13¾	14	— ¼

C

CKPet	.16	44	77	16	15⅜	15⅜	...
CDI			7	547	11⅛	8¼	10½	+2
CHB	.57t		14	476	u13⅛	12⅜	13⅜	+ ⅛
CM1Cp	.05e	12	127		4⅜	4¾	4½	...
CMT			320	u21⅜	15	15	—1¾	
CRS	.24	6	33		17⅛	16⅛	16¾	—1
CSE		80	8		20	u18⅞	18	18⅛	+ ⅛
CWTran	.50	4	2		14⅞	x4⅞	14⅞	...
CagleA		14	44		7	6⅞	7	+ ⅜
Caldor	.40	9	83		20½	19⅝	20¼	+ ⅜
Calcomp		37	397		11⅜	10⅝	10⅝	— ¼
CallLife	.10e	20	50		5¼	4⅞	5	...
CallJ pf	.92		5		12¾	12¾	12¾	+ ⅛
CallJ pf2	.50		24		22¼	21¾	22	+ ⅛
CallJ pf3	.40		38		9½	9¼	9⅜	+ ⅛
CalPtC	1.40	7	82		40	38⅜	39½	+ ¾
Camco	.20	12	668	u22⅜		18⅜	19¾	+1¼
CaChbA			387		8½	8	8¼	+ ⅛
CdnHomO		17	416		8½	7¾	8¼	+ ⅛
CdHydr	.25	9	23		10⅜	10⅜	10⅜	+ ⅛
CdMarc	.23	10	118		7⅜	7⅜	7⅜	+ ⅛
CdnMerr		17	46		18⅜	18	18	— ⅛
CdnOcei	.58a	7	11		17⅜	16⅛	17⅜	+ ⅛
CdnSupO		9	236		57½	55	55	—1¼
Capehart			275		1½	1⅛	1⅜	+ ⅛
CapitlFd	.20	7	52		5⅞	5¾	5⅞	+ ⅛
Caressa			174		5¼	4⅞	5¼	+ ⅜
Carnat	1.20	101	057		32⅜	31¾	32	+ ⅛
CaroEn	1	7	7		13¾	13⅜	13⅜	...
CaroPLpf	5		z280		56¾	55¼	56	+ ⅜
CarrolDv		18	89		10½	10	10⅛	— ⅛
CastlAM	1b	9	17		17	16¾	17	+ ⅛
CasFd	1.60a		15		22¼	21⅞	22¼	+ ⅛
Cavitrn		38	127		11⅞	11¼	11⅜	— ⅛
CelluCft		7	59		3	2¾	2¾	— ⅛
CenM pf	3.50		z170		37⅜	37	37	— ⅜
CenPLpf	4		z100		47	47	47	+ ½
CentSe	.65		45		6⅜	6⅜	6⅜	+ ⅛
CentryF		8	5		5½	5½	5½	...
Cenvill		1	8		38	20¼	19⅜	20⅛	— ⅛
CertifCp			8		44	3⅜	3½	3⅜	...
Certron			541		1¾	1½	1½	— ⅛
Cetec	.08	13	171		6	5½	5½	— ⅛
ChadMl	.60	7	8		7⅜	7½	7⅜	...
ChampHo			1166		3¼	2⅞	3	— ⅛
ChartMd		7	35		25⅜	25½	25⅝	+ ⅛
ChrtM	pf.75		35		7	6⅞	6⅞	— ⅛
Chmpist	.24	10	7		8¼	8⅛	8⅛	+ ⅛
ChiRv	1.60a	10	8		25⅛	24⅞	24⅞	— ½
ChiefDev		25	426		24⅞	23½	24⅞	+1½
ChildWld		22	63		10⅜	9½	10⅜	+ ⅜
ChiltnCp	.28	6	95		10⅜	10	10	— ⅜
Christn	.30e	6	98		7¾	7½	7½	— ⅛
CircleK	1	10	141		18⅛	17¾	18⅛	+ ⅛
Citation	.48a	9	24		13⅜	12⅞	12⅞	— ⅜
CityGas	.92	6	2		12⅛	12⅛	12⅛	— ⅛
Clabir	.14b	20	15		4¾	4¾	4¾	+ ⅛
Clarmt	.05e		12		9¼	9	9¼	...
ClarkC	.10e	7	51		5⅜	5	5¼	+ ⅛
Clarostat		5	12		8½	8½	8½	+ ⅛
Clausng	1.06	8	44		19⅜	18½	19¼	+1
Clopay	.32	8	84		16⅜	15½	15⅝	— ⅜
CohenHat			13	132u	5½	4⅜	5¼	+ ⅜
Cohu	.16e	13	66		4⅜	4¼	4¼	...
Colemn	.80	9	198		20¼	19⅜	20¼	+ ⅛
ColCml		35	623		20⅝	19½	20½	...
Colwell	.60	5	60		9⅛	8⅞	9	— ⅛
Cominc	2	11	24		29¼	28	28⅜	— ⅜
ComAll	.32	8	93		22½	21⅜	21⅞	+ ⅛
ComAl	pf1.60		18		15⅝	15¼	15¼	+ ⅛
ComMtl	.60	9	48		12	11½	11⅝	— ⅜
Comdint		12	486		30⅜	27½	29⅛	+ ⅛
ComdrCp		47	174		4⅜	3⅜	3⅝	—1
Cmpac	.72e	12	180		20⅝	20½	20⅝	+ ⅛
Compo	.20	22	229		10	9⅜	9⅞	+ ⅜
CompuD		13	53		2¼	1⅞	2	...
CompInv			85		5	4¾	4⅞	...
Conchm	.70	5	39		15¼	14¾	14⅜	— ⅛
ConcrdF			45		6	5⅜	5⅜	...
Condec	.27t	7	196		16⅜	15⅝	16	— ⅜
ConnllyC			8		4	4	4	+ ⅛
ConnrHm		7	90		8¾	8½	8½	+ ⅛
Conrock	.80	9	13		21¾	21¼	21½	+ ¼
Conroy	.16	7	24		4⅞	4⅝	4⅝	+ ⅛
ConsOG		9	412		9¼	8⅞	9	— ⅛
ConsRef	.60	11	29		10½	10⅛	10½	...
ContMtl		8	93		7¼	6⅞	6⅞	+ ⅛
ContTel	wt			50	9-16	7-16	½	+1-16
CookIn	.20e	4	208		7¼	6¾	6⅞	+ ⅛
CookP	.40e	9	46		16¾	15½	15⅝	—1⅝
CoopJr	.10e		37		5⅜	5¼	5⅜	+ ⅛
CoreLb	.28	17	448	u23¼		19	22½	+2⅞
Corenco	.80	8	21		15¾	15½	15⅝	+ ⅛
Cornlius	.68	16	106		30⅜	29	29½	— ⅛
Cosco Inc			12	985	u10⅝	4⅞	10⅛	+4⅜
CottCp			101		5½	4⅜	4⅜	— ⅛
Courtld	.13e	12	3		2¾	25-16	2¾	+1-16
Cousins		wt		49	½	7-16	7-16	...
Cramer			214	u	5	4½	4⅝	+ ⅜
CrestFo		12	53		3¼	2⅜	3	+ ⅜
CrestOil	.24a	14	198		12⅞	11½	12½	+ ⅜
Crompt	1a	6	29		27¼	26¾	27	+ ⅛
CrossAT	1	11	82		29¾	29	29¾	+ ¼
CrowlM	.50		21		7¾	7⅜	7⅞	+ ⅛
CwnCP	.60b	11	50		26¾	25¼	26¼	+1¼
CrownC	.15e	5	18		5¼	5	5	...
Crownln	.28	10	82		11	10	10½	+ ⅛
CruteR	.36	18	348		16	15	15¾	+ ⅛
CrystlO	.60	49	152		22¾	21¼	21¾	—1⅛
CubicCp	.60	10	130		26½	25	26	+ ¼
Curtice		1	6		66	22	21	22	+ ⅛

D

DCL			5	120	4¼	4	4	...
DWG	.49t		5	178	3¾	3½	3⅜	+ ⅛
DamonC			4	53	4¼	4¼	4	— ⅛
Damson			17	382	12¼	11½	11⅝	— ⅛
Datapd	.30		91	884	22		18⅞	20⅜	+ ⅛
DayMn	.20e		19	321	u14⅜		13⅛	14	+ ⅛
DeRose			30	33	4⅛	4¼	4¼	...
Decoratr	.24	8	28		3¾	3⅜	3⅜	— ⅛
DelLabs	.40	7	15		17⅜	17½	17⅝	+ ⅜
DelhiOil			49	65	10	9⅝	9⅝	...
DellwdF	.60	5	10		8⅞	8¾	8¾	— ⅛
DenTal	.30e	17	132		20	19½	19⅝	...
Depsitr	1.60	6	10		24½	24¼	24⅜	+ ⅜
DesgnJw			6		1¼	1⅛	1¼	...
DevCpA		5	47		14⅜	13¾	13¾	— ⅛
DevonGp		4	18		31¼	27⅝	31¼	+3¼
Digicon		42	99		4¾	4	4⅜	+ ⅜
Dillard	.40	6	10		17⅜	17¼	17¼	— ⅛
Diodes		71	114		2¼	2¼	2¼	...
DisFab			5		2⅜	2⅜	2⅜	+ ⅛
Documat		20	294		31½	28⅜	29½	—1¼
DomePt			72	115	81⅜	68¾	70½	—8¼
Domtar		1	7		39	u21	20	...
Downy	.40	6	39		19	18½	18⅝	+ ⅛
DrexUt	1.56		8		18⅝	18	18⅝	+ ⅜
DrivHarr			29	u12¼		11⅜	11⅝	— ⅛
DrFair	.40	4	64		10¼	9⅞	10¼	+ ⅛
Dunlop	.08r	6	157		1¾	1½	1½	—1-16
DuplxPd		1	5		28	28½	25⅞	26	
Duplx	pf1.45		6		31¾	31	31½	+ ½
DurTst	.40b	14	236		13½	12⅜	13⅜	+1
Dynictn	.07e	14	695		5¼	4⅝	5	+ ⅜

E

EAC	.20e		80	5	4¾	4⅜	— ⅛
EarthRes		1	7	254	17½	16⅜	16⅜	...
EstnCo	1.08	15	3		20⅜	20⅜	20⅜	— ⅛
EazorE	.24	6	1		4⅜	4⅜	4⅜	+ ⅛
Edmos			868u		5⅜	4⅜	5¼	+1
EDO	.50	9	53		18⅜	18¼	18½	+ ⅛
Ehren	.10	12	441	u12		10½	12	+1¼
ElcorCp	.20	10	155		12¼	11¾	12¼	+ ⅜
ElAudD		7	218		6½	5⅝	6⅜	+ ⅛
Electrog	1	10	66		20	18½	20	+ ⅛
ElecEng	.24	13	173		15¼	13½	14¼	— ⅜
ElecAm	1.20	7	53		33½	30¾	32	+1⅜
EmrRd	.72t	10	462	u15¼		13⅜	15	+1⅝
EngyRs	.24	12	59		9¼	9	9¼	+ ⅛
ErnstEC	.32j		475		7¼d	6¼	6½	— ½
Ero Ind			25	7	3	2⅞	3	+ ⅛
Espey	.15e	17	20		8¼	7½	7½	— ⅜
EsqRd	.52e	6	17		15¼	14⅜	15¼	+ ⅜
EtzLav		17	47		4	3⅜	3½	— ⅛
EvansAr	.40	11	336	u20⅝		17⅞	20	+2
Exectve		17	118		7¼	6¾	6⅞	— ⅛
Executn	.40t	17	58		14⅜	14¼	14⅜	— ⅛

F

FDI	.01e		145	2	1¼	1⅛	+ ⅛
FPA		4	9		8⅜	8⅜	8⅜	...
FbInd	.35e	6	230	u15¼		14¼	14½	+ ⅛
FairTex		8	58	6		5¾	5⅞	+ ⅛
FairfNob			334	2½		2¼	2½	+ ⅛
FairmC	.15	10	2		4¼	4½	4¼	— ⅛
FamDir	.32	10	20		14¾	14¼	14⅜	— ⅛
FannyF	.50e	22	53		11⅜	11	11⅜	+ ⅛
FayDrg	.20b	10	73		12⅜	11¾	12½	+ ⅛
FedMart	.60	8	119		18½	16⅞	17½	+ ⅜
FedRt	1.36	14	28	u19¼		18⅜	18⅝	+ ⅛
FedRes			401	268u	7⅞	7	7⅞	+ ⅛
Felmnt	.20	19	182	u28¼		25⅜	27	+2
Fidelco			31		4⅝	4½	4½	— ⅛
FinGen	.40b	9	184		15⅜	15¼	15⅜	...
FinGnA	.40b		6		13¼	13	13⅛	...
FtConn	.80	8	23		9	8⅝	9	— ⅛
FtSLSh		1	6		27	22	21	22	+1
Fstmrk			10	15	5	4⅜	4⅜	...
FischrP		11	13	113	15½	14⅜	15¼	+ ⅛
Fishman			87		3¼	2⅝	2⅝	— ⅛
FtchGs	1.56	5	6		18⅜	18¼	18⅜	— ⅛
Flagg		11	46		5¼	4⅞	5	— ⅛
Flagstff	.12		233		7¼	6¾	6⅞	— ⅛
FlanEnt		12	119		9½	8¾	9	— ⅛
FlightSf	.28	19	269		38¼	36	37½	+ ⅜
FlaCap			9		3¼	3¼	3¼	— ⅛
FlaRck	.20e		7	331	u12		10⅝	10⅝	— ⅛
FlowGen		15	292		16¼	15¼	16	...
Flowers		9	84		16	d15	15¾	— ¼
FlukeJ	.96t	15	104		33½	30¾	33¼	+2⅜
Foodrm	.50	5	9		7⅜	7½	7⅜	— ⅛
FooteM		184	27		7¾	7¾	7¾	— ⅛
Foote	pf2.20		5		31⅜	31¼	31⅜	+ ⅛
ForestC	.08		90		17⅞	16⅝	17⅜	+ ⅛
ForestLab		225	45		7¼	6⅝	6⅝	— ⅛
FoxgstaP	.60	9	209		13¾	13¼	13¼	— ⅛
FranklnRt		15	44		5⅜	5⅜	5⅜	+ ⅛
Fr	r	8	a		⅛	n	k		⅜
Frantz	1	7		8	22⅜	22	22	...
Friedm	.28b	5	25		6	5¾	6	+ ⅜
FriendFr			22		14⅛	13¾	13¾	— ⅛
Frischs	.30b	7	21		7⅞	7½	7½	— ⅛
FrontA	.20b	7	460		15⅜	14¼	15½	+ ⅜
FrontA	wt		77		7½	7	7½	+ ⅛
Fuqua	wt		2480		1-32	d1-128	1-64	—1-64

G

GIExpt		8	52		2	1¾	2	+ ⅛
GIT			18		6¼	5¾	5⅝	— ⅛
GRI	.30	16	187		9	8½	8½	— ⅜
GTI			66		2⅜	2¼	2¼	...
Galaxy	.03	5	146		8⅞	8½	8⅝	+ ⅛
Garan	.88	5	20		12¼	11⅞	12	— ⅛
Garland			53		3⅜	3⅜	3½	+ ⅛
GatLjet	.40b	12	397	u28½		25⅝	27	+ ⅜
Gaylrd	.05e	7	15		3⅜	3½	3⅝	+ ⅛
Gaynor			165	u	3⅜	2⅝	2⅞	— ⅛
GnEmp	.27r	10	39		4	3⅞	4	— ⅛
GenExp			178		8¼	7⅝	7⅞	+ ⅛
GnHous			4		88	4⅞	4⅝	...
Gen	Resrcs				2	7-16	7-16	7-16	— ⅛
Genge	.10e	20	333	u	8¼	6¾	7⅛	+ ⅜
Genisco			31		3⅜	3⅜	3⅜	— ⅛

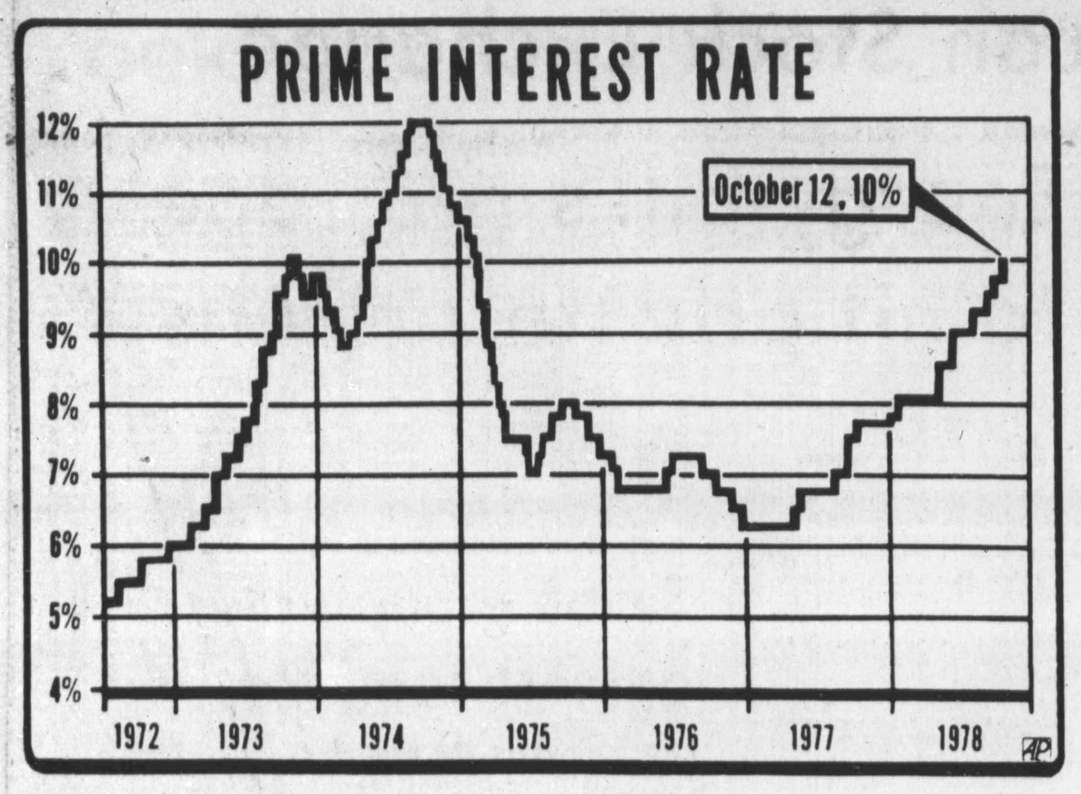

Chart shows the prime interest rates—the rate at which banks loan money to General Motors and other large U.S. corporations—over the years since 1972, according to figures from the board of Governors of the Federal Reserve System. To the average American, the prime rate is important mainly as indicator of the expense of borrowing. (AP Laserphoto)

Board driving interest rates to new highs in inflation fight

By R. GREGORY NOKES
Associated Press Writer

WASHINGTON (AP)— The Federal Reserve Board is driving interest rates to all-time highs in a new bid to control inflation and prop up the sagging dollar.

In the process, it is gambling it can accomplish its objective without pushing the economy into a tailspin and a possible recession.

The board made its latest move Friday by increasing its bank discount rate to 8.5 percent, the highest it has ever been. The previous high of 8 percent was set by the board only three weeks ago.

The Friday increase, the sixth this year, signals a probable new round of rising interest rates throughout the economy, including business and consumer loans and possibly home mortages as well.

Interest rates already are at their highest levels since the 1974-1975 recession. Earlier this week, major commercial banks increased their prime lending rates — the minimum they charge on loans — to 10 percent.

Controlling inflation was a chief motive in the board's hike in the discount rate, which is the interest it charges on loans to its approximately 5,000 member banks.

It said in a statement it took the action to bring the discount rate into closer alignment with other interest rates and also "in recognition of continued high inflation, the recent rapid rate of monetary expansion and current international financial conditions."

An increase in the discount rate is one of the few tools the government has with which to act quickly against inflation and the sagging dollar. Higher interest rates theoretically slow economic growth and thereby take pressure off prices.

They also are supposed to make the dollar more attractive on world money markets by increasing its worth.

But despite five previous increases in the discount rate this year, inflation has continued to worsen and the dollar has continued to fall.

Even before the latest increase, President Carter had said at a recent news conference he thought 8 percent was "too high. I wish it were lower."
lower."

There is a fear within the Carter administration, as well as among some members of Congress and many economists, that the upward increase in interest rates will slow the economy so much it will trigger a possible new recession.

The latest action of the Federal Reserve Board, however, makes clear it has decided that the need to put a brake on inflation and support the dollar outweighs the risk of an economic downturn.

The action was not taken without misgivings, however, since the vote approving the increase was 5-2. Chairman G. William Miller, who previously this year voted against one increase, was with the majority this time.

BUSINESS NOTEBOOK

Legislators continue to study transfers

By BILL KIDD
Austin Bureau

AUSTIN—Electronic funds transfer systems—or EFTS, as the phrase often appears— continues as a study topic for legislators, who anticipate some recommendations in that area for the 1979 Legislature.

Rep. Don Cartwright, San Antonio, who chairs the Subcommittee on Electronic Funds Transfer Systems of the House Financial Institutions Committee, says his panel will meet with a representative of the U.S. Senate Banking Committee to receive an update of Federal efforts in the EFTS area before putting any recommendations into final form.

Whatever is recommended, the lawmaker explains, the subcommittee wants to avoid potential conflicts between State and Federal requirements, as has occured with the disclosure requirements under "Truth in Lending" laws.

Cartwright says he has some concern over the lack of public perticipation in the subcommittee's hearings, commenting, "There's not an outcry from people pressing the subcommittee to do anything."

One reason, he feels, may be that financial institutions using EFTS have done an acceptable job thus far.

However, Cartwright does anticipate some legislation will be proposed.

"I think the basic mood of the committee is to recommend automatic teller machines off premises for banks," he say, noting that savings and loan associations and credit unions have such authority—and some are using it.

That legislation most likely would carry some type of geographical or territorial limits on how far from home banks could go—perhaps being restricted to operations within their counties—to prevent larger banks or holding companies from muscling in on smaller neighbors.

Also likely to be proposed, Cartwright reports, is some limit on the liability of an account holder in a EFTS operation—similar to the limits on liability for credit card holders.

While the subcommittee has been looking at "point of sale terminals," Cartwright expects no recommendations in that area, since such terminals and their use are "so in the infant stage."

Also under consideration is the privacy aspect of EFTS, but Cartwright feels there will need to be additional work done before any recommendations are made there—and he feels it's likely Federal requirements may result in any State law being unnecessary.

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It appears there won't be any proposals in another area of financial activity or lawmakers—since it seems they handled the problem well in 1977.

Archie Clayton, chief counsel for the Department of Baking, reports the statutes passed in the 65th Legislature requiring review and approval by the banking commissioner of changes in acquisition and control of State-chartered banks appear to have worked well for both the regulators and the regulated.

That, he notes, is no small achievement "in an area of such complexity."

While no applications have been denied, and few (other than those which have involved overseas investors) have attracted much attention, Clayton feels the law is doing what it was intended to do.

His interpretation, Clayton says, is that the folks who would be turned down are simply not applying.

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This year's worker's compensation rate adjustment hearing has been set by the State Board of Insurance for 9 a.m. Nov. 28 in the Department of Highways and Public Transportation Building auditorium.

The hearing is unusually late, and rate changes are expected to go into effect Jan. 1.

Edward O. Kasper, manager of the worker's compensation section of the SBI, says the delay has been due to lack of statistical material—and until the statistics are ready (and the material likely won't be in until early next month) there was no point in holding a hearing.

Kasper does say, however, that any increase in rates for employers "hopefully will be minimal."

Home add to permits

Midlanders apparently are in the homebuilding mood as new building permits topped the $1.5 million mark last week. Most of the permits were for new homes with few exceptions.

This brings the year's building permit total to $74,900,328, a record with still more than two months to go before the end of the year.

The major new commercial permit to be issued went to Southland Corp., $62,000, to build a 7-Eleven store at 3208 N. Midkiff.

The only other new commercial permit went to Goodrich Hegl for a Quick Oil Change store at 611 S. Big Spring. The permit was for $39,000.

E. Power received one for $52,000 for an addition to a commercial building at 700 Andrews Highway. A sign will be erected by Graham Associates at 1006 S. Midkiff at a cost of $3,500. The Central YMCA at 800 N. Big Spring is planning $16,000 worth of repairs and interior alterations.

I.P.M.I. of Lubbock took out a permit for $25,665 to add five apartment units to the existing building at 1801 N. Midland Drive.

Permits for new residences were issued to:

Casabella Homes, 3609 W. Wadley, $65,000; Casabella Homes, 3611 W. Wadley, $65,000; Casabella Homes, 3613 W. Wadley, $65,000; Casabella Homes, 3615 W. Wadley, $65,000; Casabella Homes, 1416 Lanham, $80,000; Gilbert Bates, 2801 Exeter, $65,000; Gilbert Bates, 2803 Exeter, $65,000; Ramcon, 4530 Leddy, $40,000; Ramcon, 4520 Anetta, $42,000; Ramcon, 4518 Anetta, $40,000; Ramcon, 4516 Anetta, $41,000; Ramcon, 4514 Anetta, $41,000; Ramcon, 4510 Anetta, $42,000; Betty Nell Kinsey, 1505 Alcove Court, $50,000; D.C. Kersey, 4301 Valley Drive, $60,000; D.C. Kersey, 4307 Valley Drive, $55,000; Concept Homes, 412 Idlewilde, $43,400; Fred Estep, 714 Dormard, $52,000; Fred Estep, 716 Dormard, $52,000; Harvey Langston, 3007 Goddard Place, $65,000; Tom Mallen, 2910 Goddard Place, $65,000, and Britton Investors, 4205 Boulder, $85,000.

Permits for residential alterations went to:

Elisando Madrid, 4620 Bowie, $7,000; Cy Wagoner, No. 5 Hanover Court, $75,000; Mark V. Snowden, 3617 W. Kansas, $3,000; George Hemmingway, 2809 Frontier, $2,000, and Silvino Ragalado, 1500 S. Marshall, $200.

New rules reported

AUSTIN, Texas (AP) — Texas accountants could advertise and submit competitive bids for services under new rules of conduct approved Friday by the Texas State Board of Public Accountancy.

The new rules must be approved by a majority of the 18,000 accountants. They would replace rules adopted in 1946 that prohibit advertising and bidding.

"In advance of possible litigation concerning our advertising and solicitation rules and in light of recent developments on the national scene," said board chairman Don M. Lyda, "the board chose to initiate a rule on advertising which will meet the tests of the courts, if necessary."

Commodity prices will continue upward path

By DON KENDALL
AP Farm Writer

WASHINGTON (AP) — Prices farmers get for commodities are expected to continue up overall next year, according to the latest Agriculture Department projections.

However, that does not mean all items such as grain, oilseeds, cotton and livestock will share equally in the gains.

Howard W. Hjort, the department's chief economist, estimates that, as a group, farm prices will rise 5 to 10 percent in 1979 from this year's average.

In 1978, according to figures released Friday by the department's Economics, Statistics and Cooperatives Service, the collective farm price index for all commodities is averaging 13.1 percent above 1977 when it dropped 1.6 percent from 1976.

Hjort's forecast of a 5 to 10 percent gain in farm prices next year was included in a speech he made Thursday in Arlington, Va. Copies were distributed Friday by USDA.

Hjort said food prices next year could rise by as much as 11 percent if farmers get bad weather in 1979.

Hjort said further "it is unlikely" retail food prices will gain less than 6 percent in 1979.

Retail food prices, on the average, are up about 10 percent this year, the steepest rise since 1974. Last year food prices rose 6.3 percent, according to USDA calculations.

Hjort told a House subcommittee Sept. 19 that the economy's inflation rate alone would mean a food price increase next year of 4 to 5 percent without any further gains in prices at the farm.

Hjort also said then that "private forecasters look for a gain of 7 to 9 percent in food prices" next year.

In his new statement, Hjort said again that "price inflation in the general economy alone implies a 4 to 5-plus percent increase in food prices for 1979."

Also, as he did last month, Hjort said imported food and fish will be more expensive and "are likely to add at least 1 percent to the over-all rate of food-price inflation" in 1979.

"While an admittedly still-formidable list of uncertainties exists, it is unlikely that 1979 food prices could end the year less than 6 percent higher than in 1978," he said.

"At the other extreme, a tight supply scenario, especially for meat and fresh fruits and vegetables, with adverse weather at crucial points in the year the key factor, it is possible to see food prices as much as 11 percent higher," Hjort said.

In reviewing what happened in the food sector this year, he said the gain in farm prices is expected to account for about half of the 10 percent boost in retail food prices.

But marketing costs of food after it leaves the farm accounts for about 70 percent of what consumers pay to eat — including meals eaten away from home — and those increases occur automatically as inflation continues, he said.

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WASHINGTON (AP) — A program operated by the Agriculture Department and state agencies has turned up traces of aflatoxin in corn samples in six states, a chemical found in nature that can cause cancer.

The corn found to have aflatoxin was from Georgia, Kansas, Missouri, North Carolina, Texas and Virginia,

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BUSINESS

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Howard W. Hjort, the department's director of economics, said Friday.

Aflatoxin has cropped up almost regularly in recent years in corn and some other farm commodities that can develop a type of mold which produces the substance.

Samples also are being collected for analysis from Illinois, Indiana, Iowa, Kentucky, Nebraska and Ohio.

"So far, too few samples have been analyzed to evaluate the extent of aflatoxin contamination," he said.

Testing by several state agriculture departments "have found the incidence of aflatoxin reduced from 1977 levels ... and less of a problem in the 1978 crop ... than it was a year ago," Hjort said.

Food and Drug Administration guidelines prohibit corn from interstate commerce with aflatoxin of 20 parts per billion or more.

Penny L. Young

Woman joins Bell

Penny L. Young, Southwestern Bell Public Relations, St. Louis, Mo., has accepted the position of public relations representative for the company's Midland-Odessa and Abilene districts. This is a new position.

According to Southwestern Bell District Manager Juanita Bryant in Midland, Miss Young will assist with various public relations programs including news relations, employee information, community service activities and coordinating advertising and bill insert schedules.

A Texas Tech graduate, Miss Young joined the company in 1976 in Little Rock, Ark., as a public relations assistant. She later was transferred to St. Louis as staff specialist-Employee Information. Miss Young recently moved to Midland from the St. Louis headquarters office.

She was graduated from Tech with a Bachelor of Arts degree in Public Relations/Journalism, but also attended Southwest Texas State University and the University of Houston.

Miss Young has been with Southwestern Bell over two years and has extensive newspaper and public relations background.

Farm income shows 25 percent increase

By BRIAN B. KING

WASHINGTON (AP) — When members of the 95th Congress returned to Washington last January, angry farmers greeted them at the Capitol and demanded more money for what they produce.

Congress had enacted an administration farm bill the previous year and the president and his supporters on Capitol Hill had said that measure would stabilize farm income.

But the protesting farmers, calling themselves the American Agriculture movement, said the 1977 bill wouldn't do the job. They said they would "strike," that they would reduce production at least one-half, unless Congress passed a bill that would guarantee them higher profits.

The farmers lobbied for the bill every day, unleashed sick goats, chickens and other animals at the Capitol, stormed the Agriculture Department twice to publicize their contention that production costs are rising faster than the wholesale prices paid to farmers.

Their demonstrations in Washington and elsewhere attracted national attention.

But two weeks into the spring, the House decisively rejected the bill the farmers wanted. After one last march on the White House that night, all but a few of the farmers went home.

Instead of a strike, U.S. farmers then produced record corn, soybean and feedgrain crops.

Wheat growers for the most part did cut back — in line with the government's requests and provisions of the 1977 farm bill designed to raise prices through management of supplies.

During the year, farm income has increased by about 25 percent over the 1977 level.

Last month, Congress voted a $19-billion appropriations bill for federal farm and food aid programs in the year that began Oct. 1. Almost all the $6-billion increase from last year is to pay for the 1977 changes in farm income-price support programs.

Otherwise, what farmers got from Congress was:

—A measure that raised cotton support prices slightly and allowed President Carter to boost grain-growers' subsidies to discourage production.

—Revisions in Agriculture Department credit programs, with a new $4-billion program that is helping many of the protesters refinance loans they obtained five years ago when grain prices were booming.

—Congressional investigations of the buying of cropland by foreign interests and effects of commodity-futures trading on farm prices.

—New research programs on solar energy for farms, approval of a new lock and dam at a critical juncture for barges that carry grain down the Mississippi River; drought-relief and export-promotion programs and farm-oriented changes in tax laws.

—Changes in pesticide-control laws that farmers said were hindering their efforts to protect the food supply.

Long-advocated revamping of the federal crop-insurance program was put off until 1979.

Midlanders attend meet

Several Midland bank women recently joined more than 1,000 banking executives at the 56th Annual Convention of the National Association of Bank Women, Inc., in Las Vegas, Nev.

The convention theme was "The Winning Game Strategisies for a Competitive Era.

The Midlanders at the meeting included Mary Broadbent, vice president, Eagle Computing Corp.; Edith Davie, assistant cashier; Charlotte Hall, assistant vice president; Gladys Harris, assistant vice president; Geneva Harvey, assistant vice president, and Florence M. Shade, assistant vice president, all of The First National Bank.

Mrs. Cynthia Ann Manley

Mrs. Manley joins firm

Mrs. Dixie Ogtto, owner of Driscoll's Gifts, announces the appointment of a new manager of her childrens department. Mrs. Cynthia Ann Manley.

Mrs. Manley holds a B.S. degree in Fashion Merchandising from the University of Arizona. She has had five years management experience with Sears in Austin.

Her husband is Derrill Manley, assistant rector at the Episcopal Church of the Holy Trinity.

business beattitudes

by Bill Beattie

Is life a drab experience, or is it a-thrill to be alive? Is our well-being a hit-or-miss proposition or a constant factor? Is each day dreary, depressing, frightening, or is it challenging and full of interest? Our response to these questions may very well lie in our answer to this question: "Is our **gratitude** insignificant or overflowing?"

A heart filled with **gratitude** does not find life a dull, dreary experience. Our lives are freed from binding restrictions as we express more thoughtfulness and kindness.

One of the finest arts is **gratitude** and one that all of us can cultivate and make grow. One of the surest ways of developing it in ourselves is just to remember how pleased we are to hear a word of approval and praise and that it works both ways. How true it is!! Just the knowledge that someone, somewhere appreciated our efforts would lessen many of life's heavy loads. A philosopher once said, "It was a great surprise to me when I discovered that most of the ugliness or beauty that I saw in others was but a reflection of my own nature."

What human does not long for an expression of **gratitude**, for an audible assurance of being wanted and deemed necessary to someone else's happiness and well-being? **Gratitude** is one of the real values of life . . . not the acute, cheap flattery or praise for selfish purposes, but the honest approval based on the acknowledgment of another's usefulness and goodness.

Gratitude is being thankful for our talents and abilities by accepting them as obligations to be invested for the common good. It is appreciating our opportunities by accepting them as challenges to achievement. Being grateful brings to us creative ideas that enrich life and help us make contributions to human progress.

Gratitude is a wonderful thing. There is as much greatness in acknowledging a good turn, as in doing it!!!

He enjoys much who is thankful for little; a grateful mind is both a great and a happy mind.

— Secker

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Wood opens Dallas office

MIDLAND—Robert L. Wood, veteran Midland independent oil operator and former president of the Independent Petroleum Association of America, has announced the opening of a Dallas office at 1210 Adolphus Tower.

The new office will be in charge of Lee F. Wood, a Dallas resident the last 15 years. He is a son of Mr. and Mrs. Robert L. Wood.

The firm engages in oil and gas leases, acquisitions and property development.

Robert L. Wood also is a member of the board of Commercial Bank and Trust Co. and First Savings and Loan Association, both in Midland. He is a past president of the Midland Chamber of Commerce and is a trustee of Austin College at Sherman.

Janet Pollard

Accountants plan meeting

When the Council of Petroleum Accountant's Societies of North America meets in Midland next week, there will be delegates form ten states (including Alaska) and Canada.

COPAS is recognized throughout the oil and gas industry for the establishment of uniform accounting procedures, particularly for joint oilfield operations.

The council will meet in business sessions at the Best Western of Midland Wednesday-Friday.

The schedule for Wednesday includes the executive council meeting, a golf tournament at Midland Country Club and a reception for all delegates in the evening at the Best Western Motel.

General business meetings will be conducted Thursday morning. The group will visit the Permian Basin Oil Show in the afternoon and the Dow Jones Average band featuring Janet Pollard as vocalist will entertain the group Thursday at a dinner dance in the Midland Petroleum Club.

Business meetings are scheduled Friday morning and the council is expected to adjourn mid-afternoon.

Special activities have been planned for the women during the council meeting. Eden's Restaurant will be the scene for brunch and a style show Thursday morning and the group will tour the Permain Basin Petroleum Museum on Friday morning.

Adobe Oil finals test

Adobe Oil & Gas Corp. of Midland has announced completion of a wildcat, its No. 1 Kavouras, in Indiana County, Pa.

Total depth of the well is 1,835 feet at which depth it potentialed for 9,836,000 cubic feet of gas per day.

Delivery to pipeline is averaging in excess of 2 million cubic feet of gas per day.

The company as approximately 300 acres of leases in the immediate area of the well. Adobe owns 50 percent interest in the new producer and its partnerships own the remaining 50 percent.

Adobe also reports the successful completion of a significant stepout to its wildcat gas discover, No. 1 R. L. Reagan, in Northwest Robertson County in East Texas.

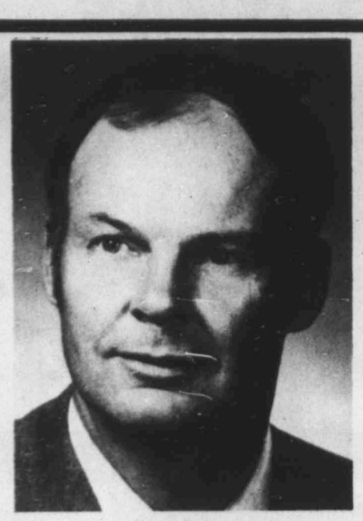
The stepout is No. 1 Zieglschmid which is producing from the Cotton Valley lime through perforations from 12,748 to 12,777 feet.

On calculated, absolute open flow potential it made 11,100,000 cubic feet of gas per day on chokes ranging from 6/64 to 10/64-inch. Flowing tubing pressure ranged from 6,175 to 5,950 pounds.

Delivery to pipeline is averaging 2 million cubic feet of gas per day.

Additional pay zones in the Cotton Valley sands are indicated, however, these zones have not been production tested and will not until some time in the future. Adobe downs 67.5 percent dinterest in the well and the surrounding 3,274 acres. The remaining 32.5 percent interest is owned by Adobe private partnerships and individuals.

Bill Spencer



Noel Rietman

Spencer, Rietman take new Shamrock positions

AMARILLO—William L. Spencer has been promoted to vice president and general manager in Diamond Shamrock's Production Department, and Noel D. Rietmant has succeeded him as assistant general manager-Drilling and Producing Operations.

T. W. Clopton has been named senior vice president—Special Projects and Bill Killingsworth will assume the position of drilling and production coordinator.

The changes were announced last week by Robey Clark, group vice president of Shamrock's oil and gas operations.

Spencer, who had been assistant general manager of drilling and producing operations since November 1975, will report to Robey Clark. Spencer joined the company in 1951 in the Natural Gas Department in Dumas.

In 1952, he transferred to Amarillo as a junior engineer in production engineering and in 1961 was appointed assistant manager of production operations. In 1971 he was promoted to manager of producing operations.

Rietman transferred to his new post after two years as the company's manager of producing operations. He first joined the company in 1957 as a junior engineer in production at Dumas and transferred to the production engineering staff in Amarillo two years later. He was promoted to assistant chief petroleum engineer in 1961 and to chief petroleum engineer in 1968.

Clopton assumes his new position as senior vice president—Special projects after 39 years with the company. In addition to working on special projects, he will perform as a general assistant to Robey Clark.

Clopton joined Diamond Shamrock in June, 1939, as a blender at the company's McKee Plants near Dumas. He later was promoted to chart clerk.

In 1945, following military leave, he returned as a petroleum engineer and since that time has been active in Diamond Shamrock's production and drilling program. In 1966, he was named vice president in charge of production and in 1975 he was promoted to vice president and general manager of production, the position he held prior to his recent promotion.

Bill Killingsworth who had been manager of drilling operations since 1961 will report to Bud Rietman in his new responsibility as drilling and production coordinator.

Embargo lines formed in U.S. five years ago

By MAX B. SKELTON
AP Oil Writer

HOUSTON (AP) — The Arab oil embargo that caused gasoline lines to form at service stations across the nation was taking shape just five years ago.

War had broken out in the Middle East, and, on Oct. 16, 1973, Persian Gulf countries meeting in Kuwait announced a 70 percent increase in posted crude oil prices.

A day later, ministers of nine countries announced crude oil production cutbacks of 5 percent a month until Israel withdrew from Arab lands.

The next day, Oct. 18, Saudi Arabia and Qatar boosted the cutbacks to 10 percent and Abu Dhabi formally started the embargo of exports to the United States.

Libya followed Abu Dhabi a day later, one day ahead of Saudi Arabia.

On Oct. 21, Iraq called for the breaking of Arab diplomatic relations with the United States, while Kuwait, Qatar, Bahrain, and Dubai joined the embargo.

A month later, Nov. 26, the Sixth Arab Summit Conference in Algiers confirmed the embargo and the continuation of production cutbacks until Israel withdrew from Arab territories.

As the full impact of the embargo was beginning to be felt in the United States, the Organization of Petroleum Exporting Countries met Dec. 23 in Teheran and decided to raise crude oil posted prices 130 percent.

By early February, spot crude oil prices were reported to be nosediving because of large quantities of available supplies. Arab ministers scheduled a Feb. 14 meeting in Libya, but it was postponed because of a controversy over whether or not the embargo against the United States should be lifted.

The Arab embargo was lifted March 19, 1974, two days after an OPEC conference in Vienna decided to freeze crude prices.

The full effects of the embargo on U.S. consumers were delayed until early 1974 because the embargo began while U.S. stocks of crude oil and products were high and additional import shipments were in transit.

Before March 19, however, long lines of motorists seeking gasoline were common, gasoline rationing coupons had been printed, and Congress had reduced the highway speed limit to 55 miles an hour.

Since the Arab embargo, U.S. production of crude oil has declined but demand for petrolem products has increased.

As the embargo got under way, U.S. crude production was averaging about 9.2 million barrels a day. The current average, including production from Alaska's Prudhoe Bay, is about 8.7 million a day.

In the past five years, domestic demand for petroleum products has increased from 17.3 million barrels a day to more than 19 million barrels daily.

Gasoline consumption, for example, has increased since 1973 from an average of 6.7 million barrels a day to a current level of about 7.4 million.

And the American Petroleum Institute reports gasoline demand continues to climb.

In the four years from 1973 to 1977 gasoline demand, the API reports, rose only 4 percent while it increased 7.7 percent during the 12-month 1977-78 period ending in July.

Frank N. Ikard, API president, says consumers are buying smaller cars but are buying more of them and driving them more.

"Add to that the rise in population, and the total use of energy keeps rising," Ikard said.

And the Arab share of U.S. imports is increasing.

In 1973, Arab nations supplied about 853,000 barrels of oil a day or 13.6 percent of U.S. imports. Arab imports today approximate 2.9 million barrels a day or approximately 50 percent of foreign receipts.

The API says Arab oil now accounts for about 15.5 percent of total U.S. supply, compared with 4.8 percent in 1973.

C. Wayne Greenlee

Dorchester adds to staff

C. Wayne Greenlee has joined Dorchester Exploration, Inc., in Midland as land manager, William H. Aikman, president announced.

Greenlee received his B.S. degree in Geology from the University of Oklahoma in 1957. He was previously employed by Flag-Redfern Oil Co. in Midland as land manager, and prior to that by Sandefer & Andress and Signal Oil & Gas.

He is a member of Permian Basin Landmen's Association and American Association of Petroleum Landmen.

Energy bill's red tape to hit private citizens

By CLYDE LA MOTTE
Reporter-Telegram
Washington Oil Correspondent

WASHINGTON—Many domestic oil and gas producers have been complaining bitterly about the complexity of the natural gas bill and the red tape burdens it will impose on them. But that is only a part of the story. Private citizens, too, are going to discover that provisions for residential energy conservation are just about as complicated.

Private citizens will be involved because the energy legislation includes provisions for a tax break for homeowners and others who weatherize their buildings and thus reduce their energy consumption. Futhermore, there are provisions for some financial assistance for those who do not have the money available to pay for insulation of storm windows or other energy-saving devices.

That is, the federal government wants to help you and me save money on utility bills.

However, a reading of a congressional conference report shows that it will not be simple nor easy to obtain such help. There will be some strings attached.

Naturally, if there is to be a government assistance plan, there must be rules and procedures established.

The conference report spells out how this first step is to be undertaken:

"The Secretary of Energy shall, not later that 45 days after enactment of this Act, publish an advanced notice of proposed rulemaking with respect to rules on the content and implementation of residential energy conservation plans which met the requirements of Sections 213 and 214.

"Not later than 60 days after the date of publication of the advanced notice or proposed rulemaking, and after consultation with the Secretary of Housing and Urban Development, the Secretary of Commerce (acting through the National bureau of Standards), the Federal Trade Commission, the Consumer Product Safety Commission and the heads of such other agencies as he deems appropriate, the Secretary shall publish a proposed rule on content and implementation of such plans.

"After publication of such proposed rule, the Secretary shall afford interested persons (including federal and state agencies) an opportunity to present oral and written comments on matters relating to such proposed rule.

"A rule prescribing the content and implementation of residential energy conservation plans shall be published not earlier than 45 days after publication of the proposed rule."

But the legislation not only outlines the maze through which the government should move in developing rules for residential energy conservation but it also spells out what the rules the secretary of Energy is to develop should contain.

For instance: "The rules promulgated under subsection (a) shall (1) identify the suggested measures for residential buildings, by climatic region and by categories determined by the Secretary on the basis of type of construction and any other factors which the Secretary determines necessary for general safety and effectiveness of any residential energy conservation measure, standards which the Secretary determines necessary for installation of any residential conservation measure, standards of procedures concerning fair and reasonable prices and rates of interest required under section 213 (a)(4), and standards developed in consultations with the Federal Trade Commission, concerning unfair, deceptive, or anti-competitive acts or practices, for the measures required under Section 213(b)."

There is more—much more—but that should be enough to make you realize that Uncle Sam is going to find out what is wrong, from an energy standpoint, with your house, what should be done about it and what the price should be.

It will take a bit of time for all this to come about, of course, as was indicated in the various deadlines spelled out at the start for governmental determination of procedures and policies.

However, if you are patient, your government is going to look after the energy needs of your home and, as mentioned, see to it that you are not charged too much for any energy conservation action. And if you can't pay, don't worry about that, either. The government will take care of that, too. After all, it's all spelled out in the fine print of the legislation.

Perry adds two staffmen

Perry Gas Transmission, Inc., a wholly-owned subsidiary of Odessa-based Perry Gas Companies, Inc., announces the addition of John L. Wollaston and Walter Z. Baker to the staff.

Wollaston, manager of Gas Supply for Perry Gas Transmission, Inc., is working in the company's Amarillo office. He previously was employed as senior gas sales representative with Phillips Petroleum Co. in Amarillo. Wollaston has a Bachelor of Science degree from Southeastern State in Durant, Okla.

Baker, previously employed as executive vice president with Thomas Enterprises, Inc, Amarillo, is now area manager for Perry Gas Transmission, Inc., at the company's field office in Shamrock. He was graduated from Shamrock High School and has completed several courses pertaining to the natural gas business.

Texas group votes against compromise

WASHINGTON (AP) — The Texas delegation lined up a against a crucial House vote on a natural gas compromise rule, but the measure passed anyway — by one vote.

The final tally was 207-206.

The rule allowed the compromise to be lumped with four other less controversial energy matters, and its approval Friday removed the final obstacle to House passage of the energy legislation President Carter has promised to sign.

The 24-member Texas delegation voted 12-10 against the rule Friday with two Texans — Democrats Henry B. Gonzales and Olin E. "Tiger" Teague — not voting. House Majority Leader Jim Wright of Fort Worth and Lufkin Democrat Charles Wilson pushed for passage of the rule as members of an energy task force appointed by House Speaker Thomas P. "Tip" O'Neill Jr.

Democrats Jack Brooks, Bob Eckhardt, Abraham "Chick" Kazen, Jim Mattox, Dale Milford, Jake Pickle, Bob Poage and John Young joined Wright and Wilson in voting for the rule.

Republicans Bill Archer and Jim Collins voted against, as did Democrats Omar Burleson, Bob Gammage, Sam Hall, Jack Hightower, Barbara Jordan, Bob Krueger, George Mahon, Ray Roberts and Richard White.

Krueger launched a last-minute letter-writing campaign urging members to vote against the rule, labeling the natural gas compromise a measure of "Byzantine complexity."

Krueger's letter was also signed by Joe Waggonner Jr., D-La., and Jim Jones, D-Okla.

In a separate letter to the Texas delegation, Krueger said he opposed the natural gas measure "because I do not believe that it strikes a fair balance among consumers in different regions of the nation; it will impose a severe regulatory burden upon our intrastate gas market at increased cost to Texas consumers."

The compromise calls for deregulation of gas prices by 1985 with gradual price increases in the interim. It also introduces federal controls on the previously deregulated intrastate market until 1985 and creates a complex set of price guidelines.

Wilson said he thought the Krueger letter had "little effect" on the delegation but quickly added, "I'm not being critical of Bob Krueger at all. If I'd been in his situation, I'd have done the same thing. I still strongly support his candidacy for the Senate."

Krueger is trying to unseat Sen. John Tower, who, like Krueger, has taken a firm stand against the natural gas compromise.

Production shows drop

AUSTIN—Texas oil and gas wells produced 606,582,379 Mcf of gas in July 1978, down 6.50 percent from field runs a year earlier.

Marketed gas production totaled 514,202,589 Mcf and reflected a 4.23 percent decrease from the July 1977 volume. Marketed production is the total gas to transmission lines, carbon plant and plant fuel and lease use.

Gas exported from Texas in July totaled 267,405,914 Mcf and included 74,919,389 Mcf of imported gas.

Exports of Texas-produced gas in July totaled 192,486,525 Mcf and reflected a 2.05 percent decrease from the year earlier month. Natural Gas Pipeline Co. of America was the month's largest exporter, moving 97,955,134 Mcf of gas of which 41,110,678 Mcf was Texas-produced gas.

Texas gas production in July came from 196,344 oil and gas wells.

In June 1978, Texas wells produced 576,449,570 Mcf of gas. Marketed gas production in June totaled 485,052,585 Mcf.

Application approved

AUSTIN—The Railroad Commission has approved an application by George R. Brown, Houston, to unitize and initiate a secondary waterflood recovery program in the West City of Post San Andres A Unit of the Garza Field, Garza County.

The project could boost ultimate output of the field by some 6,000,000 barrels, the RRC reports.

The unit is adjacent to the City of Post San Andres A Waterflood Unit, which has been operating for some six years, and which has increased producion from 7,000 barrels of oil monthly to 27,000 barrels monthly, the RRC reports.

The new unit covers some 1,566 productive acres, which have cumulative production to date of 6,400,000 barrels.

The San Andres A reservoir was discovered in 1935 and produces from an average depth of 2,800 feet.

President announced

ODESSA—John Gandy, formerly Grant Supply Odessa manager, has been elected president of Grant Corp., Ltd., Calgary, by the Grant Corp.'s board of directors.

Gandy was promoted from the position of vice president of Grant Oil Country Tubular Corp., Houston.

Grant Corp., Ltd. is a distributor of integral joint casing and tubing and premium threaded connections, API casing and tubing, and premium drill pipe.

254 operations work Permian Basin areas

Weekly drilling activity as conducted by Reed Drilling Equipment in the Permian Basin of West Texas and Southeast New Mexico has the two-state area with 254 units making hole.

Last week the Reed survey counted 261 rigs going and a year ago at this time 304 units were spotted turning to the right.

Leading the survey this week is Eddy County, N. M., with 26 active rigs going. Last week the survey also counted 26.

Pecos County, the West Texas leader, took second place as 23 units were counted, decreasing its count by two operations over last weeks 25 rigs.

Lea County increased activity as 18 rigs were reported, gaining one unit over the previous weeks count of 17.

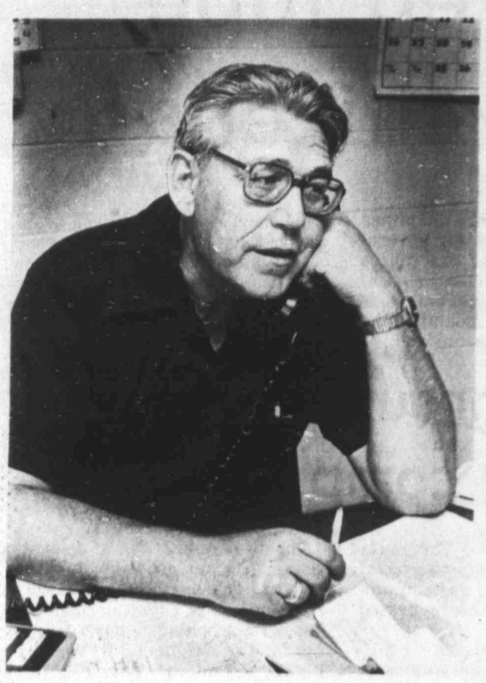
Another West Texas leader showed Gaines County with 15 active rigs going. Last week the survey reported 18 rigs.

Drilling activity picked up in Crockett, Hockly and Terry counties as 11 rigs were spotted turning the right in each county.

Other drilling activity recorded on the Reed survey is listed in the table below.

County	10/13	10/06
Andrews	8	8
Borden	2	1
Chaves	3	4
Crane	7	7
Cochran	9	8
Coke	4	3
Concho	2	2
Crockett	11	10
Culberson	2	2
Dawson	2	2
Ector	5	5
Eddy	26	26
Gaines	15	18
Garza	7	7
Glasscock	0	1
Hale	1	2
Hockley	11	10
Howard	6	8
Irion	5	5
Kent	3	3
Lamb	1	1
Lea	18	17
Loving	1	1
Lubbock	1	3
Martin	3	2
Menard	1	1
Midland	5	4
Mitchell	4	4
Pecos	23	25
Reagan	4	3
Reeves	5	5
Runnels	1	0
Schleicher	2	4
Scurry	5	5
Sterling	7	9
Sutton	3	2
Terrell	2	2
Terry	11	8
Tom Green	1	0
Upton	2	5
Val Verde	2	2
Ward	9	10
Winkler	7	7
Yoakum	5	7
Total	254	261

Better - than - new at Hines Wood



Denton Hines will be happy to answer any questions you may have in mind about the adviseability of re-doing the furniture you have, rather than buying new items at inflated prices which may not be of the same high quality. Call 694-8891, or visit 5109 Andrews Highway.

Halloween is almost here, and that means Thanksgiving and Christmas cannot be far behind! Everyone wants home to be at its very best for the holidays, and perhaps you have a piece of furniture or two which looks rather shabby, and you have been shopping around for replacements and are shocked at the inflated prices. Consider having your well-constructed older upholstered furniture made good as new at Hines Wood, in business here for 27 years.

Hines Wood Upholstery picks up and delivers, and can usually have a piece in and out within ten days. They have thousands of samples to choose from...and will bring a selection to your home. Good craftsmanship is their dedication, their pride, and their joy.

Furniture renewed by Hines Wood will cost about half what new items of comparable quality will be. Hines Wood buys fabrics directly from the mills, with no middlemen, and pass the savings to the customer. If time payment is desired, they offer a no-down-payment plan with 12 months to pay, at bank rates of interest.

Don't wait too long. Assess your reupholstery needs, and contact Hines Wood before the rush. 5109 Andrews Highway, phone 694-8891.

TAGS for Trucks Auto Glass Service

Jack Wilbourn's face is a familiar one in the glass business in the Permian Basin. He has spent ten years here, the last seven years with Auto Glass Company. Many persons who have confidence in his ability and integrity have been asking for him, and will be glad to learn he has gone into business for himself at 1207 South Garfield, it is named TAGS, which stands for Truck and Auto Glass Service.

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Jack Wilbourn wants all his old friends to know he's gone into business for himself at TAGS, 1207 South Garfield. For all your glass needs, his experience and caring attention can't be beat. His location is too new to be in the yellow pages—it is: Truck and Auto Glass Service, TAGS, 1207 S. Garfield, phone 684-4241.

oil AND INDUSTRIAL NEWS

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Lynell Wagnon displays several of the many beautiful fabrics which may be seen at Stretch & Sew in Sherwood Village, Odessa. New classes in sewing, demonstrating quick tricks and shortcuts in handling today's fabrics, are beginning Wednesday, Oct. 18 from 10-12 am and, at 7-9 pm, Creative Children's Wear. Place: 1131 E. 42nd, Odessa. Hours: 9-9 Mon.-Thu., 9-6 Fri. and Sat. Phone: 563-1388.

Heat energy project due to tap hot well

MIDLAND, S.D. (AP) — A well that has served as a dependable water supply for 19 years on the Hilltop Ring Ranch has suddenly become more attractive as a source of heat energy.

Water from the 4,000-foot, naturally flowing well, which intersects the Madison aquifer, is a fairly constant 153 degrees and can flow up to 174 gallons per minute.

The idea of tapping that heat came several years ago to George Armstrong, who owns the ranch 20 miles north of Midland.

He set up a successful system to heat a shop area with the water. But the materials he used eventually gave way to the extreme corrosiveness of the water.

Now, in cooperation with the U.S. Department of Energy and the South Dakota School of Mines and Technology, a widespread application of geothermal energy is planned for the ranch.

"We just think it's going to be great — something we've wanted to do for years, but never knew how," Armstrong said.

The three-year project, which is still in the design phase, was one of four grants from the department to demonstrate the use of geothermal energy. Tech received a $166,479 grant for the project.

Armstrong is contributing an additional $130,000.

Water will be piped underground from the well to various buildings on the ranch for space-heating purposes, in addition to a grain dryer and Armstrong's large ranch home.

"The system will be designed so heating needs of the homes are given priority over grain drying and heating of other structures," said Dr. Staley Howard, a Tech professor who is project manager for the grant.

It is estimated that the Armstrongs will save between $5,000 and $6,000 a year just on existing fuel bills by next winter, and will benefit from having heat for other buildings which did not have heat before.

"We just think it's a year or two short," Armstrong said of the project, referring to his fuel bills this winter.

Serving up crab

BATON ROUGE, La. (AP) — Gov. Edwin Edwards is having a crab boil party to show there is no danger in eating the crustaceans which have been linked to cholera in Louisiana. But the governor won't be there.

The guest list is small, but does include the press. Last week, Edwards quipped he planned to host a luncheon for reporters featuring unboiled crabs.

Diapers galore

PROVO, Utah (AP) — So many babies were born at Utah Valley Hospital last month that some of them had to be put in cardboard boxes.

"We had wall-to-wall babies," said Diane Christensen, a registered nurse. "We had to put babies in cardboard boxes because we ran out of the regular isolettes."

Hospital officials said 546 babies — a hospital record — were born in September, including six sets of twins.

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Algae topic for meeting

The Permian Basin Section of the Society of Econiomic Paleontologists and Mineralogists will meet Tuesday in the Midland Hilton.

The meeting will get underway at 11:30 a. m.

The guest speaker will be Dr. John L. Wray, exploration research associate with Marathon Oil Co. in Littleton, Colo. His topic will be "Algae and Carbonate Facies."

Wray will discuss the role algae have played in carbonate sedimentation since Precambrian time, and the usefulness of fossil algae in making age determinations for environmental interpretations of carbonate facies, and as significant constituents in sedimentary facies associated with petroleum reservoirs.

The speaker is a graduate of West Virginia University, and the University of Wisconsin, and has been associated with Marathon Oil since 1956.

Dr. John L. Wray

Dividend declared

Adobe Oil & Gas Corp. Friday announced that its Board of Directors authorized a common stock quarterly cash dividend for fourth quarter, 1978 of five cents per share.

It is to be paid on December 29, to shareholders of record on December 1.

Gary M. Brown

Brown now in new post

Amarillo Oil Co. has announced the addition of Gary M. Brown as geophysicist to its Midland District office.

Brown comes to Amarillo Oil Co. from El Paso Natural Gas Co.

He has a B.S. degree in Geophysics from Texas Tech.

Prior to moving to Midland in 1977, Brown and his wife resided in Houston where he was employed by Amoco Production Co.

Brown is a member of the Society of Exploration Geophysicists; West Texas Geological Society; the Permian Basin Geophysical Society and the Geophysical Society of Houston.

At present, Brown is in the M.B.A. program at the UTPB having started the program at the University of Houston in 1974.

Ron Lloyd

Jack W. Seaman

Northern announces retirement of Seaman

Northrern Natural Gas Co. has announced the retirement of Jack W. Seaman, manager of the Midland Area Office.

An employee of Northern 40 years, Seaman moved to Midland in 1959 as general manager of the Permian Basin Pipeline Co., which later merged with Northern, the parent company.

Seaman has been active in a number of civic and industry organizations, including the Midland Chamber of Commerce, the West Texas Chamber of Commerce, the American Gas Association, the Independent Natural Gas Association, the Texas Mid-Continent Oil and Gas Association, and is a past chairman of the Permian Basin Chapter of the Natural Gas Processors Association.

He also is a member of the National Defense Executive Reserve, and the Emergency Petroleum and Gas Administration of the Department of Interior.

He has served as treasurer, vice president and president of the Midland County United Fund. He also served as vice president and member of the board of directors of the Texas United Fund. For the last five years, Seaman has served on the Midland Junior Achievement board of directors.

Northern has named Ron Lloyd, Omaha, manager of the Midland office. Lloyd, who has been with Northern 21 years, was manager of Administration for the Transmission Operations Division of Northern's Natural Gas Group.

The Midland area includes approximately 350 employees in an area covering West Texas and New Mexico.

Lloyd was graduated from C.E. School of Commerce and attended the University of Nebraska at Lincoln.

Lloyd and his wife, Bobi, have three daughters.

DRY HOLES

CONCHO COUNTY

Charles F. Harding No. 1 W.C. Hartgrove, wildcat, 2,173 feet from south and 467 feet from west lins of R.T. Benge survey No. 244.5, five miles northeast of Paint Rock, td 3,416 feet.

DAWSON COUNTY

South Ranch Oil Co., Inc. No. 1 Rollow, wildcat, 660 feet from north and west lines of labor 8, league 276, Glasscock CSL, eight miles southwest of Lamesa, td 12,100 feet.

EDDY COUNTY

Hanagan Petroleum Corp. No. 1-C Crusader-Robbitt Communitized, Four Mile Draw, W (Morrow) field, 660 feet from north and 1,980 feet from west lines of section 8-19s-26e, 12 miles south of Artesia, td 9,500 feet.

GARZA COUNTY

Traverse Corp. No. 2-15 J.H. Herd et al, Bowjace (Strawn) field, 1,974 feet from north and 467 feet from west lines of section 15, block 2, T&NO survey, abstract 247, eight miles south of Post, td 8,760 feet.

Traverse Corp. No. 3-34 J.F. Lott, Bowjack (Strawn) field, 660 feet from north and 1,340 feet from east lines of south half of section 34, block 2, T&NO survey, eight miles south of Post, td 8,756 feet.

HOCKLEY COUNTY

Southern Union Exploration Co. No. 1 Johnson, wildcat, 660 feet from south and east lines of labor 23, league 25, Wharton CSL survey, six miles south of Levelland, td 6,600 feet.

HOWARD COUNTY

Cotton Petroleum Corp. No. 1 Wegner, wildcat, 660 feet from south and east lines of section 6, block 31, T-2-N, T&P survey, three miles northeat of Luther, td 7,940 feet.

LEA COUNTY

Bass-Pennzoil No. 1 State, Lovington (Pennsylvanian) pool, 700 feet from south and 660 feet from east lines of section 22-16s-36e, three miles southwest of Lovington, td 11,520 feet.

Meyer & Associates, Inc. No. 1 Temple, Permo-Pennsylvanian field, 1,980 feet from south and west lines of section 34-10s-32e, 12 miles south of Tatum, plugged and abandoned.

Read & Stevens, Inc. No. 1-UT State, Quail (Queen) field, 660 feet from south and 1,890 feet from west lines of section 2-19s-34e, 15 miles northwest of Monument, td 5,355 feet.

RUNNELS COUNTY

James K. Anderson No. 1 Phelps, wildcat, 1,217 feet from north and 1,560 feet from west lines of section 57, H&TB survey, seven and one-half miles southwest of Winters, td 4,750 feet.

Hamco Exploration & Development Co. No. 1 V.L. Rodgers, wildcat, 467 feet from north and 3,006 feet from west lines of Thomas Green survey No. 493, two and one-half miles northeast of Winters, abandoned location.

VAL VERDE COUNTY

Gulf Oil Corp. No. 1-H R.L. Bledsoe, wildcat, 1,886 feet from south and 860 feet from west lines of section 45, EL&RR survey,Cabstract 1737, 14½-miles northeast of Juno, abandoned location.

C. C. Conrad earns award

ANDREWS— Charles C. Conrad of Andrews, assigned to the Drilling Section of Atlantic Richfield Co., has received a 25-year service award recently from H. M. Tankersley, district drilling superintendent, Midland.

Conrad was employed in September 1953 by American Republic Oil Co. in East Texas. American Republic was bought by Sinclair Oil & Gas at which time he was moved to West Texas.

After a series of production-drilling assignments in Monahans, he was transferred to Andrews at the time of the Atlantic Richfield and Sinclair merger. He was assigned to the Drilling section in Andrews in 1972.

Texas Mid-Continent re-elects H. B. Harkins

HOUSTON—H. B. "Hank" Harkins of Alice, chairman of the board of Harkins & Co., was re-elected presdient of the Texas Mid-Continent Oil&Gas Association during its 59th Annual Meeting last week.

Harkins heads an independent drilling and oil and gas production company.

The executive committee of the 3,300-member organization also elected William H. Abington executive vice president and general counsel; John W. Wagner vice president for public affairs, and Leo Patterson Jr., treasurer. All three are from Dallas.

The Dallas-based trade association elected three new district vice presidents. They include Avery Rush Jr. of Amarillo, representing the Panhandle; Edwin L. Cox of Dallas, representing North Central Texas, and Keating V. Zeppa of Tyler, East Texas.

The six district vice presidents re-elected include C. W. Alcorn Jr. of Victoria, the Lower Gulf Coast; E. L. Ames Jr., San Antonio, Southwest Texas; Richard C. Hudson, Houston, the Upper Gulf Coast; C. E. Jacobs, Albany, West Central Texzs; W. D. Kennedy, Midland, the Permian Basin, and W. M. Thacker Jr., Wichita FallaS, North Texas.

The association will hold its 1979 convention in Dallas next fall.

Center plans land course

"Land Support Personnel — Phase One" will be offered by the Permian Basin Graduate Center in cooperation with The Institue For Energy Development, October 23-24, at the PBGC Building, 105 W. Illinois. Sessions will be held from 9:00 a.m. to 4:30 p.m. The instructor will be Lewis G. Mosburg Jr.

This course is designed for land clerks, rental clerks, division order and title clerks, land secretaries, contract personnel, paralegals and others dealing with the administration of Land Department activities.

This two-day institute will cover those aspects of oil and gas, contract, and real property law of significance to Land Support Personnel—including real property and oil & gas title law, problems arising under the oil & gas lease, and the analysis and interpretation of farmout and support agreements, operating agreements, gas contracts and division orders.

Featured will be discussion of the new IRS Farmout Ruling and detailed analysis of the new AAPL Model Form Operating Agreement.

Lewis G. Mosburg Jr. is the senior partner of an Oklahoma City law firm. He teaches annual institues on "Petroleum Land Titles," "Advanced Problems Arising Under the Oil & Gas Lease," and "Contracts Used in Connection with Oil & Gas Operations," as well as "Land Support Personnel—Phases One and Two."

He is the author of Landman's Handbook on Petroleum Land Titles and editor of Landman's Handbook on Basic Land Management.

The $200 fee includes materials and text: Land Support Personnel - Phase One.

Schneider promoted

LOS ANGELES, Calif.—David T. Schneider has been appointed assistant secretry and controller of Occidental Engineering Co.

The firm, a subsidiary of Occidental Petroleum Corp., undertakes the engineering and construction of process plants, terminals and pipelines on an international scale.

Sneider joined Occidental Petroleum in 1976 as financial supervisor from W. R. Grace&Co. where he was manager of financial analysis for a west coast consumer division.

Tommy Hill

Tommy Hill joins TO&G

Tommy Hill now is with the West Texas District office in Midland of Texas Oil & Gas Corp. as a landman.

He received his B.A. degree from Trinity University in San Antonio in 1976. He is a member of the Permian Basin Landmen's Association.

GPA meet scheduled

DALLAS—The Southern Regional Meeting of the Gas Processors Association will be held Oct. 26 in the Baker Hotel, Dallas.

The all-day technical session will be opened by GPA vice president Sam F. Segnar, Northern Natural Gas Co., Omaha, with Mack Wallace, chairman of the Railroad Commission of Texas as the featured spaker.

Wallace will talk on "Energy: A Look Into the Future."

Technical presentations for the morning session are:

"Thomasville Plant Operating Experiences," R. E. Christensen, Shell Oil Co., New Orleans.

"Training in Gas Plants, 1978," J. Wiley Phillips, Atlantic Richfield Co., Dallas.

"Effect of Composition on Propane Refrigeration Systems," Glen A. Blackburn, Avco Production Co., Denver.

Following Wallac's presentation, the afternoon session will be:

"Recovery of Low Level Heat," William E. Plaster, Phillips Petroleum, Bartlesville.

"Operation and maintenance of Cryogenic Plants," Anthony A. du Pont, Rotoflow Corp., Los Angeles.

Workshop—"Solving Cryogenic Opderating Problems," with Allen Tarbutton, Mitchell Energy Corp., Houston, as leader. Co-leaders for the workshop are: Furst Moore, Sun Gas Co., Corpus Christi, and R. H. Brotherton, Warren Petroleum Co., Eunice.

The program chairman is Darrell R. Roberts, Cities Service Co., Tulsa, J. B. Pearce, The Parade Co., Shreveport, La., as morning session chairman, and Gordon Cornell, Cornell Engineering, Inc., Dallas, as afternoon session chairman.

There will be a seminar Oct. 25 covering loss control by the International Safety Academy, Houston. It will be an afternoon session.

Dr. Kaiser appointed

AUSTIN—U.S. Secretary of Energy James Schlesinger has appointed Dr. William R. Kaiser, research scientist with The University of Texas Bureau of Economic Geology, to the Department of Energy lignite subcommittee of the fossil energy advisory committee.

Subcommittee members advise Schlesinger on research pertaining to developing technology for lignite and other low-rand coal.

Dr. Kaiser is a leading authority on Texas and Gulf Coast lignite, particularly in lignite resource assessment, exploration techniques and lignite utilization.

His report "Texas Lignite: Near-Surface and Deep-Basin Resources," published by the BEG in 1974, has become a basic reference which contains information on resources, the geologic setting of lignite deposits and the first mapping for deep-basin lignite below 200 feet.

Dr. Kaiser has worked jointly with Dr. Tom Edgar of the UT Austin Chemical Engineering Department on instituting lignite gasification and with Dr. Hal Cooper of the UT Civil Engineering Department on air quality resulting from lignite use.

He currently is working on an extensive update of his 1974 lignite reserve and resources estimates for the Texas Energy Advisory Council.

Charles F. Scott

C. F. Scott gets award

Charles F. Scott, administrative supervisor in Midland for Atlantic Richfield Co., has completed 30 years service with the company.

His award was presented recently by C. E. Cardwell, district manager in Midland for the Permian District.

Scott started with The Atlantic Refining Co. in Dallas Sept. 7, 1948, as an accounting trainee.

He was transferred to Longview in 1948 as a production clerk, then became payroll clerk followed by an assignment as records and reports clerk.

He moved to Midland in August 1951 and joined the statistical data and analysis section. In November 1954 he was named office assistant in the Regional Drilling Section, and was appointed administrative supervisor in July 1961.

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ICO, INC. DISCUSSES STOCK SALE

Bobby L. Payne, President of ICO, Inc., announced today that the shareholders of ICO have tentatively agreed to sell the outstanding stock of the company to a new corporation formed by a group of Texas investors. The investors, represented by Wilford B. Fultz, of Fort Worth, Texas, and the shareholders of ICO, Inc. have signed letters of intent for an undisclosed price. The letters of intent are subject to certain conditions and asset evaluations which are to be completed on or before October 31, 1978.

In making the announcement, Payne went on to state that he would remain with the company in his present capacity and will be a shareholder in the new corporation. No changes in the current operations are planned, however, the company plans to open a new tubular inspection and coating facility in Houston, Texas, in early 1979.

ICO, Inc. is the parent company of Rodco, Inc., Spinning Pipe Service, Universal Tubular Service and Spincote which have operations in Odessa, Texas, Denver City, Texas, and Oklahoma City, Oklahoma.

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Axe Handle, why are your running from that ape? Are you scared of apes or something? I thought you said you are rougher than sandpaper and didn't scare. It looks to me like you are scared of that ape. Brutus, I'm not running from that ape. I'm leading that ape. I'm leading that ape out of the pit. Sweet Molly told me to get that ape out of the pit before his sharp toe nails cut holes in the plastic. So I hollered at Tex three times for him to get out of the pit and stay out of the pit. The fourth time I hollered Tex get out of that pit before I come out there and slap you out of the pit and then slap you some more for getting out. When he heard that he just sat down and yawned. So I went out there and slapped him up to the side of the head with a Dixieland Daydreamer. Then I caught him open handed on the other cheek with a Choctaw Romancer that should have gyroomed him back to apeland, but it didn't. He jumped up grabbing at me with his teeth sticking out, growling, grunting and groaning and generally acting unmannerly. So I interpolated the consequences and came up with the answer immediately that apes can best be led out of a pit much better than apes can be driven from a pit. So you might tell your friends who see this picture that I am leading the ape and not running from him.

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Four wildcats among new work

Four wildcat operations are among the oil and gas exploration activity reported in the Permian Basin of West Texas and Southeast New Mexico.

Two of the explorers have been scheduled in Crockett County.

One of the Crockett wildcats is Dan J. Harrison Jr. of Houston No. 1-29-30 University Lands, a 9,000-foot Ellenburger wildcat one mile southwest of the discovery well of the Pikes Peak Draw (Canyon gas) field.

The project is 17 miles west of Ozona and 860 feet from south and 660 feet from west lines of section 29, block 30, University Lands survey.

WELL FINALS

The Pikes Peak Draw field gained its second producer with the completion of Harrison No. 1-A Joe Bean.

The well finaled for a calculated, absolute open flow potential of 1,270,000 cubic feet of gas per day, through perforations from 67,466 to 6,589 feet after 500 gallons of acid.

Total depths 8,132 feet and 4/5-inch casing is set at 6,485 feet. The plugged back depth is 7,772 feet.

Wellsite is one location north of the discovery and 705 feet from south and 660 feet from east lines of section 28, block UV, GC&SF survey.

ANDERSON TEST

The second Crockett wildcat is Anderson Petroleum, Inc., of Ozona No. 4-11-O Moody Minerals.

The 7,500-foot test is 661 feet from south and wet lines of section 11, block MM, T&StL survey.

The drillsite is in the Ozona multipay field and surrounded by Canyon production. It will test the zone at 2,100-4,700 feet as a wildcat and then test for Canyon production at a lower level.

COKE TESTER

Mark IV Energy of San Antonio will drill No. 1 Stanley Adams in an attempt to reopen the Blackwell (Wolfcamp) field of Coke County, three miles southwest of Blackwell.

Scheduled on a 4,000-foot contract, the wildcat is 990 feet from north and east lines of section 276, block 1-A, H&TC survey. Elevation at drillsite is 2,184 feet.

The site is a southwest offset to one of the field's two depleted wells and 3/8 mile south of a 3,795-foot dry hole.

RUNNELS TRY

Cherokee Oil & Gas Corp. of Fort Worth No. 1 Watkins is to be dug as a 4,700-foot wildcat in Runnels County, one mile northeast of Wilmeth.

The project is 467 feet from southeast and 1,330 feet from southwest lines of section 14, Henry L. Bays survey no. 444.

It is 1,500 feet west of Fry production and 1,500 feet northwest of Goen production in the Deike field.

PECOS TEST

Forest Oil Corp. of Midland No. 1-R-7 J. H. Dunlap is to be dug as a 22,500-foot project in the Gomez (Ellenburger) field of Pecos County, 13 miles northwest of Fort Stockton.

The deep test is 1,700 feet from south and 1,160 feet from west lines of section 7, block OW, TCRR survey. It is a replacement for well No. 7 which was junked and abandoned.

STERLING AREA

Wagner & Brown of Midland No. 33-7 Hildebrand will be drilled in the Conger (Pennsylvanian) pool of Sterling County, eight miles southwest of Sterling City.

Scheduled for an 8,400-foot bottom, it is 660 feet from south and west lines of section 7, S. B. Hiler survey.

MOBIL PROJECTS

Mobil Oil Clorp. has announced plans to plug back in two old producers in the Pegasus multipay field of Midland and Upton counties and test for production in the Spraberry.

No. 101 Pegasus Spraberry Unit in Midland County is 18 miles southeast of Odessa and 660 feet from north and west lines of section 19, block 40,T-4-S, T&P survey. It will be tested above 8,100 feet. The old total depth is 10,535 feet.

Mobil No. 4003 Pegasus Spraberry Unit in Upton County will be plugged back from 10,575 feet to 8,100 feet.

It is 1,980 feet from northand west lines of section 43, block 40, T-4-S, T&P survey.

REAGAN SITES

Saxon Oil Co. of Midland spotted locations for a trio of 8,200-foot projects in the Spraberry Trend area field of Reagan County, 22 miles northwest of Big Lake.

No. 1-15-58 University is 1,320 feet from north and east lines of section 15, block 58, University Lands survey.

No. 1-16-58 University is 1,170 feet from north and 1,320 feet from east lines of section 16, block 58, University Lands survey.

No. 2-16-58 University is 1,320 feet from north and west lines of section 16, block 58, Univeristy Lands survey.

TAMARACK TEST

Tamarack Petroleum Co. of Midland no. 3 Aldwell will be dug in the Spraberry Trend Area of Reagan County, six miles northwest of Stiles.

It is 1,320 feet from north and west lines of section 2, block D, L&SV survey. It is scheduled on an 8,200-foot contract.

OFFSET STAKED

Elliott Oil Co. of Abilene spotted its No. 5 Pruitt-Henson as a south offset to the discovery well and lone producer in the Johnson's Chapel (Tannehill) field of Stonewall County, eight miles southwest of Aspermont.

The 3,400-foot test is 1,014 feet from north and 1,009 feet from west lines of section 199, block D, H&TC survey.

SHELL TEST

Shell Oil Co. No. 161 Sealy-Smith Founation is to be drilled as a 9,500-foot test in the Monahans multipay area of Winkler County, five miles north of Monahans.

The project is 660 feet from north and 1,320 feet from east lines of section 34, block A, G&MMB&A survey. It is three miles northwest of the field's depleted Pennsylvanian oil discovery and one location south and slightly west of a lower Pennsylvanian oil well. The contract depth will allow for tests of the Pennsylvanian.

Mesa Petroleum Co. of Midland No. 4-39 Moody has been completed 5/8 mile west of Canyon sand gas production in the Ozona multipay field of Crockett County, 27 miles southwest of Ozona.

Completed from the Canyon sand, it finaled for a calculated, absolute open flow potential of 1,200,000 cubic feet of gas per day, through perforations from 6,555 to 6,869 feet. The zone had been acidized with 6,000 gallons and fractured with 150,000 gallons.

It is 1,364 feet from south and 1,142 feet from west lines of section 39, block MM, T&StL survey.

Total depth is 7,400 feet and 4.5-inch casing is set on bottom. Plugged back depth is 7,332 feet.

The follwing tops were called on ground elevation of 2,4145 feet: Leonard 1,626 feet, Clear Fork 2,682 feet, Dean 4,198 feet, Wolfcamp shale, 4,718 feet, upper Ozona sand 6,050 feet, middle Ozona sand 6,538 feet and lower Ozona sand 7,112 feet.

SCURRY OILER

Empire Drilling Co. of Dallas No. 1-346 Shannon Estate is the second well in the Shannon Ranch (Ellenburger) field of Scurry County, 12 miles northwest of Snyder.

Operator reported a daily flowing potential of 128 barrels of 37-gravity oil, through a 15/64-inch choke and open hole from 8,124 feet, where 5.5-inch casing is set, and total depth of 8,128 feet. That zone had been acidize with 250 gallons.

The gas-oil ratio is 675-1.

Wellsite is 660 feet from south and 1,980 feet from east lines of section 346, block 97, H&TC survey and one location north of the other well.

KING PRODUCER

Taubert, Steed, Gunn & Medders of Wichita Falls announced potential test for its No. 6-GG S. B. Burnett Estate, 5/8 mile west of the Big S (Strawn) field of King County.

The well, the fourth in the field, was completed on the pump for 150 barrels of 38-gravity oil, through perforations from 5,274 to 5,278 feet. Gas-oil ratio is 200-1.

Location is 660 feet from north and 1,166 feet from east lines of C. Sams survey, abstract 1189 and 14 miles southeast of Guthrie.

Total depth is 6,010 feet and 4.5-inch pipe was landed at 6,010 feet. The Strawn sand was topped at 5,272 feet.

TERRY WELL

Eagle Oil&Gas Co. of Wichita Falls No. 1 U. D. Lewis is a new well in the Wellman, Southwest field of Terry County, three miles south of Wellman.

One location east of other production, it finaled for a daily flow of 80 barrels of 36-gravity oil and 20 barrels of water, through perforations from 5,475 to 5,495 feet opposite the San Andres. The pay was acidized with 6,000 gallons.

Total depth is 5,505 feet and 4.5-inch casing is set on bottom.

Location is 3,170 feet from north and 1,787 feet from west lines of section 62, block DD, J. H. Gibson survey.

GARZA AREA

Kerr-McGee Corp., operating from Midland, has announced potential test on its No. 7-B Swenson in the Swenson-Barron field of Garza County, 15 miles east of Post.

The well finaled for a daily pumping potential of 269 barrels of 39-gravity oil, through perforations and open hole from 7,646 to 7,697 feet. The perforations are from 7,646 to 7,687 feet.

Total depth is 7,697 feet and seven-inch casing is set at 7,687 feet.

Location is 1,980 feet from north and 990 feet from west lines of section 24, block 7, H&GN survey.

CROCKETT WELL

H&W Enterprises of Midland no. 1-18 University has been completed in the Farmer (San Andres) area of Crockett County.

It is 1/2 mile east of other production and was completed to pump 14 barrels of 36-gravity oil and nine barrels of water, through perforations from 2,104 to 2,200 feet. Gas-oil ratio is 700-1. Operator acidized with 3,000 gallons and fractured with 20,000 gallons.

Total depth is 2,650 feet and 4/5-inch pipe is set at 2,650 feet. The plugged back depth is 2,648 feet.

Location is 330 feet from north and west lines of secton 18, block 47, University Lands survey.

COQUINA OILER

Coquina Oil Corp. of Midland No. 5-A Ricker Ranch is a new well inthe Calvin (Dean) field of Reagan County, nine miles northeast of Stiles.

On 24-hour potential test it pumped 68 barrels of 39.6-gravity oil and 72 barrels of water, through perforations from 6,020 to 7,618 feet. The pay was acidized with 1,000 gallons and fractured with 40,000 gallons.

Total depth is 7,735 feet and 5.5-inch casing was landed on bottom. Plugged back depth is 7,682 feet.

Location is 1,982 feet from north and 2,175 feet from west lines of section 46, block A, L&SV survey, abstract 856.

HALBOUTY TEST

Michael T. Halbouty of Houston No. 10 Rocker B has been completed in the Spraberry Trend Area of Reagan County, 26 miles northeast of Big Lake.

On 24-hour potentil test it pumped 36 barrels of 38.5-gravity oil and 35 barrels ofwater, through casing perforations from 6 188 to 7,214 feet. Gas-oil ratio is 1,420-1.

The zone was acidized with 3,000 gallons and fractured with 90,000 gallons. Operator drilled the hole to 7,450 feet and plugged back to 7,400 feet.

Wellsite is 1,320 feet from north and 1,720 feet from west lines of section 9, block 1, T&P survey.

SUTTON GASSER

HNG Oil Co. of Midland No. 2-64 Wallace is a new well in the Sawyer (Canyon) field of Sutton County, 13 miles southeast of Sonora.

The operator reported a calculagted, absolute open flow potential of 670,000 cubic feet of gasper day through perforations from 3,770 to 4,183 feet. Gas-liquid ratio is 145,000-1.

The gravity of the condensate is 60.5 degrees.

The pay section was fractured with 14,000 gallons.

Operator drilled to 4,635 feet, set 4.5-inch casing at 4,451 feet and plugged the hole back to 4,410 feet.

Location is 933 feet from north and west lines of section 64, block 14, TW&NG survey.

EDDY PRODUCER

Holly Energy Corp. of Midland No. 1-32 Avalon-Federal has been completed as a Strawn oil well in the Avalon (Morrow gas) area of Eddy County, N. M.

It is one mile east and one mile west of Morrow production.

From the Strawn it finaled for a 24-hour flowing potential of 12 barrels of oil, through perforations from 9,490 to 9,516 feet after 8,000 gallons of acid. Gravity and gas-oil ratio were not reported.

Total depth is 10,920 feet and 5/5-inch casing is set at 10,856 feet. Hole is plugged back to 10,476 feet.

Location is 1,265 feet from north and 1,303 feet from east lines of sectopm 32-20s-27e and 10 miles northwest of Carlsbad.

LEA COUNTY

Continental Oil Co. No. 97-B SEMU Burger, scheduled as a 6,800-foot wildcat in the Skaggs (Drinkard, Glorieta and Grayburg) area of Lea County, six miles northeast of Oil Center, has been completed from the Blinebry.

Operator reported a 24-hour pumping potential of 56 barrels of oil an 70 barrels of water, through perforations from 5,790 to 5,883 feet.

The well is bottomed at 6,675 feet in the Tubb and plugged back to 5,986 feet.

The gravity and gas-oil ratio have not been learned.

Location is 1,980 feet from north and 1,650 feet from west lines of section 29--20s-38e.

STEPOUT SET

Petroleum Corp. of Texas of Breckenridge announced location for an 8,300-foot opertion 1/2 mile west of the Bluitt (Wolfcamp) pool of Roosevelt County, N. M.

It is a twin to the San Andres discovery well of the field and 990 feet from north and 990 feet from east lines of section 8-8s-37e and 11 miles east of Milnesand.

YATES PROJECTS

Yates Petroleum Corp. of Artesia spotted a pair of Eddy County projects.

No. 1-JG Cities State Communitized will be drilled 1/5 miles northwest of the Penasco Draw (Morrow gas) field and nine miles southwest of Artesia.

Slated for an 8,600-foot bottom, it is 660 feet from south and east lines of section 13-18s-24e.

Yate Petroleum No. 1-KA Niles Communitized is 3/4 mile northeast of an undesignated Strawn area of Eddy County, seven miles west of Artesia.

It is to drill to 8,200 feet and the location is 660 feet from south and 1,980 feet from west lines of section 24-17s-24e.

Oil Industry Notes

HOUSTON—Sam B. Raia has been made executive vice president of Gaido-Lingle Co., Inc., Houston pipecoating firm; Ray Warmack has been promoted to vice president of sales and production, and Charles Soloman has been named sales manager.

Dan Evans has been elected vice president of Finance, and Mort Sleet is the new advertising coordinator.

Bill Jones has been made general production manager, with Bob Carlen General manager of the company's Pearland operations.

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CHICAGO, ILL.—Alfred F. Kirchner Jr. has been named vice president of marketing for Amoco Chemicals Corporation, the worldwide chemical, manufacturing, and marketing subsidiary of Standard Oil Co. of Indiana.

Kirchner, Amoco Chemicals' vice president for international business ventures from January 1977 until his current assignment, joined Standard's overseas petroleum subsidiary, Amoco International Oil Co., as director of marketing in 1971.

He was named Amoco International's vice president of manufacturing and marketing in 1974 after having served as vice president, marketng and business development from February 1972 through 1973.

Before joining Amoco, Kirchner held a number of management positions with Exxon Corporation in the Cominican Republic, Jamaica, El Salvador, Honduras, Peru, and the United States.

****

TULSA, OKLA.—The appointment of Robert M. Ponder to the new position of manager-refining and Transportation for Champlin Petroelum Company was announced by Wm. E. Biggerstaff, vice president, Manufacturing and Marketing, Mid-Continent Area.

Ponder, formerly manager operations and planning in Fort Worth, will be located in Champlin's Mid-Continent Area headquarters in Tulsa. He is responsible for management and production of Champlin's 54,000-barrels-per-day refinery in Enid, Okla., as well as the operation of the company's 600-mile products pipeline and six terminal operations in Oklahoma, Kansas, Nebraska and Iowa.

Prior to joining Champlin in 1972 as Manager of the Enid Refinery, Ponder held positions as refining manager and process engineer with other midwest refiners.

****

WHITE PLAINS, N.Y.—Bertold R. Fritz has been elected President of Texaco Development Corp., the patent licensing subsidiary of Texaco, Inc., effective November 1, it was announced today. Dr. Fritz will succeed Peter L. Paull, who is retiring after 30 years with TDC.

In 1955, he joined Deutsche Texaco A.G. (formerly Deutsche Erdol A.G.) at the Heide Refinery as a Research Chemist and in 1958 was named Assistant Manager, Research and Technical, at Hamburg.

****

DENVER, COLO.—Orin Cane has been named Manager of Lads for Impel Energy Corporation, Joseph P.D. Hull, the company's prsident said.

Crane has been engaged in meral land management and exploraon in every major domestic oil an gas region since 1950 when he joinedtandolin Oil and Gas in Tulsa.

****

BARTLESVILLE, OKLA.—Phips Petroleum Company's board of dirtors elected Paul W. Tucker as ve president of the gas and gas liqus division in the company's natural sources group.

Formerly manager of internationi gas and gas liquids, Tucker succeed C.J. Silas, who last month was electei senior vice president, natural re sources group.

Tucker joined Phillips in 1948.

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HOUSTON—Joe N. Averett, Jr. has been named treasurer for Pennzoil Co. The announcement was made by Baine P. Kerr, Pennzoil Company president.

A native of Shreveport, Louisian, Averett joined the company in 1971 as a management science associate with responsibility for design and implementation of corporate financial models. He also served as a planning coordinator in the planning and corporate forecasting department with responsibility for oil and gas financial forecasts.

He was named Assistant Treasurer in 1974.

****

CHICAGO, ILL.—Amoco Minerals Co., a subsidiary of Standard Oil Company (Indiana), has announced two additions to its staff:

Michael S. Harrington, formerly president of AGP Coal Co. in Kentucky, has been employed as manager, project development in the company's coal department.

Michael J. Maxon has joined the company's Denver uranium division as senior geologist. He was formerly vice president-operations and a partner in Geoscience Associates, Inc., in Colorado.

****

DALLAS—Texas Oil & Gas Corp. announced the promotion and transfer of Paul David Amend to landman for its Southeastern District in Houston. He joined the company earlier this year as landman trainee for the corporate offices in Dallas.

Texas Oil & Gas also announced that Bobby Glen Evers joined the company as district geophsicist for its Southeastern District in Houston. Evers was previously associated with Ashland Exploration Inc. in Houston as regional geophysicist.

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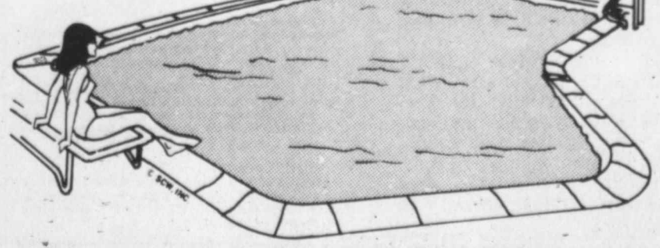

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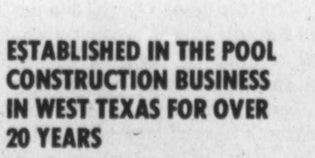

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Many included in list of papabili

By HILMI TOROS

VATICAN CITY (AP) — Once again there is no odds-on favorite to be elected as the new pope of the Roman Catholic Church.

As the church's cardinals Saturday began their second electoral conclave in 54 days, the list of "papabili," or possible popes, included at least 10 percent of the 111 electors. But as usual, the papal guessing game is risky business.

"He who enters the conclave as pope, leaves as a cardinal," a time-honored Vatican saying admonishes.

To outsiders, Cardinal Albino Luciani, patriarch of Venice, entered the Aug. 25 conclave as a virtual unknown. His name hardly figured on the longest lists of papabili. Yet his election came on the first day of voting, surprising even Luciani himself.

The 34-day papacy of John Paul, who died Sept. 28, was so widely acclaimed that the overwhelming feeling among the cardinals in recent days seemed to be that a similar pontiff should follow him — namely an Italian of a "pastoral" background.

That immediately made most Italian cardinal-archbishops contenders. Those mentioned most often were Corradi Ursi, 70, of Naples; Salvatore Pappalardo, 60, of Palermo, Sicily; Ugo Poletti, 64, of Rome; Giuseppe Siri, 72, of Genoa; Giovanni Colombo, 75, of Milan; Giovanni Benelli, 57, of Florence, and Antonio Poma, 68, of Bologna.

But other factors have entered into consideration in pre-conclave consultations, enlarging the list and dimming the chances of some of the contenders.

The main factor is that a cardinal with experience in the Vatican Curia, the central church administration, should not be excluded from consideration. There is widespread belief at the Vatican that lack of such training weighed heavily on John Paul, the "people's pope" noted only for his diocesan work.

"All cardinals are pastors, even if in the Curia," remarked Bernardin Gantin, black Africa's highest representative in the Curia as head of the Justice and Peace Commission.

Vatican-based prelates who had been passed over in the last conclave's search for a pastor include Sergio Pignedoli, 68, head of office that deals with non-Christians, and Sebstiano Baggio, 65, prefect for the Congregation of Bishops. In addition, both Pignedoli and Baggio held pastoral posts before being called to the Vatican, a combination of skills some consider vital.

Non-Italian front-runners included Argentinian Eduardo Pironio, 57, and Dutchman Johannes Willebrands, 68.

Under a huge statue of St. Dominic in the apse of St. Peter's Basilica, cardinals sit in rows during a special mass held Saturday, opening the papal conclave. (AP Laserphoto)

Abundance of parking tickets reflects city's parking problem

By LANA CUNNINGHAM

Insufficient downtown parking is a problem — one that won't be solved anytime soon.

Looking at the situation from a different point of view than most people who work downtown is Lt. H.M. Wicker, head of the traffic division at Midland Police Department.

His department, he said, is issuing between 400 and 500 tickets a day to people who are overparked or parked illegally in the downtown area.

Wicker keeps a daily account of the number of tickets issued each day. For example, there were 436 on Oct. 2; 413 on Oct. 3; 418 on Oct. 4; 420 on Oct. 5 and 398 on Oct. 6, for a total of 2,085 tickets in a single week.

This number is about the same, and sometimes more than, the number of tickets issued in Odessa, a city with more population than Midland.

Lt. Jim Hallman, head of the Odessa Police Department traffic division, said his department issues about 400, and sometimes fewer, tickets each day.

The reason is the same as in Midland: "Downtown employees are using the metered parking all day," he said.

Wicker has five people working in his department, with some checking illegal parking and others overparking at the meters.

It takes them about 1½ hours to make their rounds, giving people using metered parking time to take care of their business and leave.

But downtown employees parking their cars at the meters instead of in off-street parking areas can be caught this way, he said.

The downtown area covered by the officers runs from Front Street to Ohio Avenue, and from A Street to Fort Worth Street. "We may go as far north as Louisiana Avenue for illegal parking," Wicker said.

If the meter has expired, a ticket is placed on the car. If the car is still there when the officer comes around again, another ticket is placed on the car.

By the end of the day, if the car is not moved, the owner can face paying several tickets, Wicker said.

Each ticket for overparking or illegal parking is $2. The violator has five days to appear in Municipal Court to pay the ticket or contest it, according to Municipal Judge William Ahders.

If the five-day period comes and goes without the person appearing in court, he is sent a notice, and the $2 ticket costs $3.

If he still has not appeared by the end of that time, a second notice is sent, the ticket is upped to $4 and he is given five more days.

If he has not appeared by the end of that time, an arrest warrant is issued on the person and the cost of the ticket is raised to $7.50.

Ahders said about 125 to 130 warrants are issued each month on Midlanders who fail to appear on tickets.

It is not unusual for one person to let tickets stack up before paying them, he said. "We've had as much as 300 to 400 parking tickets on one person," he added.

When the cost tickets was raised from $1 to $2, Wicker said, employees stopped parking at the meters "for a while," but they are back there again.

The two-hour parking areas may not have meters, but Wicker said his officers have a way of checking to see if a car has been there longer than the time limit.

Officers mark a tire of each car with chalk. If the car is still there two hours later the officer issues a ticket, Wicker said.

"They (downtown employees) play games with us all the time," he noted. "They come out and wipe off the chalk with a rag, or drive their car around the block to remove the chalk."

But the officers have caught on to the tricks and recognize cars that are being done this way, according to Wicker.

The parking expert said he does not expect the parking situation to be eased in the future.

"Gibralter (Savings) won't have enough spaces in it for their employees," he said. "Marathon Oil is putting up a building right behind the (Midland) Hilton, and the Hilton is adding to its building. The Hilton didn't have enough spaces and the new addition is taking up part of those.

"Then there is the Sam Cox building and the Blanks building. They won't have additional parking."

Until some solution is found, Wicker said, his officers will continue to chalk tires and write tickets until some people learn to find a better place to park.

Debate challenge accepted

AUSTIN, Texas (AP) — Republican Bill Clements said his opponent in the governor's race, Democrat John Hill, has accepted debate challenges because Hill knows he is losing votes.

"John Hill would never accept a debate if he believed he was ahead. He only accepts a debate when he knows he is in trouble," said Clements.

Hill and Clements will debate later this month on television stations in Dallas and Amarillo. The Amarillo encounter will be broadcast simultaneously in Lubbock.

"John Hill handles debate challenges the way he handles investigations by the attorney general's office," Clements continued. "He only agrees to move in when he feels it will benefit him politically."

POSITIVE THINKING

Get lost! It's the best way of finding yourself

By NORMAN VINCENT PEALE

A sales manager told me a curious idea he used when one of his salesmen seemed to go stale on the job.

"Go out on the road for a week," he told the man, "but leave your order book at home. Don't talk business and don't take an order, even if one is offered you. Just visit around with your customers, get to know them as persons, and find out how you can help them. Be friendly with thinking of any advantage in return. Really try to help each one all you can.

"And I don't mean only in connection with business. Try to find out if they're having trouble of any kind at home or personally. Don't be nosey but show your interest and when you do that people will often open up. Genuinely give yourself to them. And don't stop with your customers; devote the week to doing some unselfish service for everyone you may meet."

I knew the results before he told me. "This guy came back almost like a new man," he said. "He was filled with new vitality. And when he picked up his order books again and went on the road his selling hit new highs."

This seemed a good sound psychology and practical as well. In losing yourself, you do indeed find yourself.

I met a man a couple of years ago who asked me to have a cup of coffee with him in the airport coffee shop. I went with him and actually watched him drink five cups! I noticed his hands shook and he chain-smoked as he talked.

"What's wrong with me anyway?" he asked. "I ought to be happy, for I've just been made president of my company, but I'm worried. I know that I haven't got what it takes and I'm sure they'll find me out. I'm miserabel just worrying about myself."

"Tell me," I asked, "have you a secretary?"

"Of course," he answered, surprised at my seemingly irrelevant question.

I asked her name and he told me. "What kind of home life does she have?" I wanted to know. "Have you met her family? Is she a happy person?"

"How do I know?" was his reply. "She's hired to do a job and she does it. That's all I care about."

"You live in a big apartment house, don't you?" I continued. "What's the doorman's name?"

"I call him Bill." And then he anticipated my next question. "I don't know his family. I don't know anything about him. Why should I?"

"Why?" I answered. "Look at yourself. Your hand shakes so you can hardly hold a cup of coffee. A new attitude can cure you, and it is to become interested in that doorman and your secretary and everyone else you meet in the course of your day. You've got to start forgetting yourself. You are so inwardly tied up that your abilities are frozen.

"If you start by being honestly concerned about the people who work with you, you will get released from fear and self-pity. Then your job will take care of itself because you will have an efficient team of happy, loyal people, and besides, you will be your best self."

Today that man is one of the best loved executives I know. He is a strong, happy, healthy and successful man. He learned to forget himself in becoming interested in other people and, furthermore, he forgot himself in a healthy out-goingness.

"For he that will love life, and see good days, let him...do good," so says the Bible, wisest of all books. Learn to love life and to live it with enthusiasm. And, of course, the way you think determines whether you hate life or love it.

If you keep telling yourself that things are bad or difficult, things will tend to be that way. Not that everything should be expected to become easy. Life is not intended to be easy, but it need not be defeating. If you confront your obstacles with enthusiasm and believe that you can handle them, then for sure you can. Lose yourself in life and you will find life like never before.

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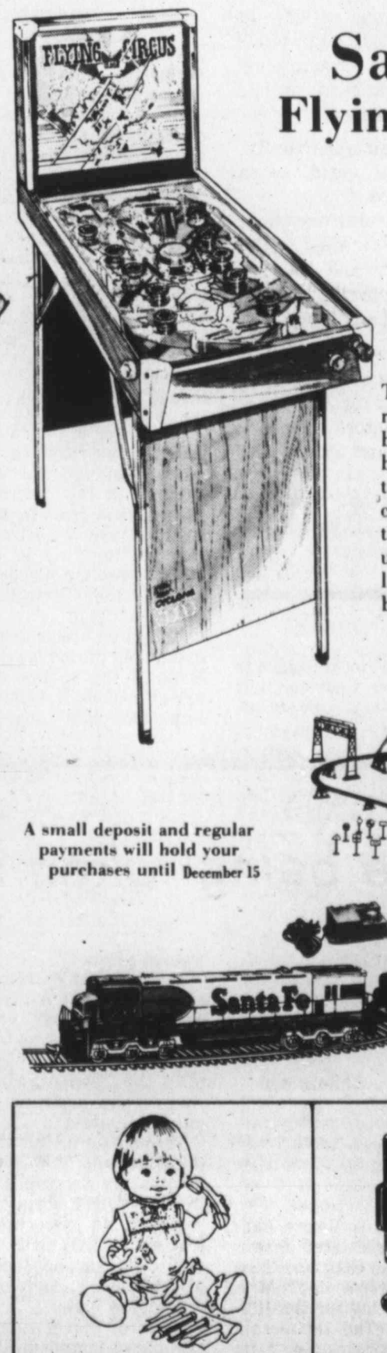

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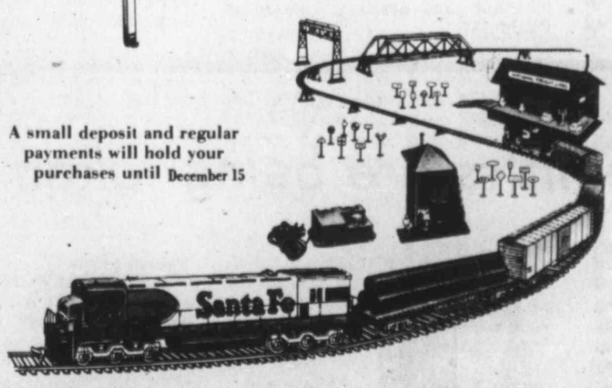

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It's 'Oil Show' time

This is the time of the year when cities, counties and organizations express appreciation to the petroleum industry for the leadership it has provided and the tremendous progress it has brought about in this and other oil-producing regions.

Residents know full-well that petroleum is THE major industry in the Permian Basin Empire of West Texas and Southeast New Mexico.

They also are aware that the petroleum industry has been operating full blast — and then some — in the last several years, doing its best to discover and develop new oil and gas fields to help ease the nation's energy shortage.

While serving in the nation's best interest, the increased activity also has accounted for a most favorable economy throughout the region, for which business interests and others are most grateful.

Unfortunately, however, the industry does not find itself in the same good graces everywhere.

Meanwhile, the major oil companies and the independent operators go right ahead, even under adverse circumstances in many instances, in their determined efforts to find and produce more and more oil and gas. This is an effort for which the nation as a whole should be thankful.

It also is to the credit of the oil industry that in addition to the finding of new oil reserves, operators have turned to secondary recovery as a means of bringing to the surface every drop of oil possible to help meet the energy requirements.

In order to achieve the overall goal, it has been necessary to perfect new methods of production, new and more efficient equipment, and improved discovery, production and recovery techniques.

Many of the achievements wrought in this field have resulted from continuing research and experimentation on the part of the oil companies themselves and the equipment and service firms serving the industry.

And this brings us right down to the major point — the center, if you please — of the subject of discussion.

It is the unveiling and staging of the 1978 version of the fabulous Permian Basin Oil Show to be held this week at Odessa.

This year's spectacular event, space for which was sold out months ago, undoubtedly will be the largest, best and most complete ever. And this is saying a lot, since there have been any number of good ones in the past.

The very latest and most modern equipment and facilities developed for use in exploring and drilling for oil and gas and for producing petroleum will be on exhibit during the show. It is reported there are more exhibitors and more exciting displays of all kinds this year than at any previous show.

It is something to visit and inspect and to enjoy .... and this is just exactly what thousands upon thousands of petroleum industry personnel and others will be doing during the Wednesday through Saturday exposition.

Many persons, even in the oil patch, have no idea of all that it takes to explore for, find, produce and develop oil reserves and conduct secondary recovery efforts.

Others, both in and outside the industry, are not completely aware of all the magnificent advancements made in oilfield equipment in recent years.

This, then, is their opportunity, to discover a new world, so to speak, in this regard.

So, on this particular occasion, a snappy salute is directed to the petroleum industry and its personnel for the remarkable job they have done and are doing

At the same time, a warm and most cordial welcome is beamed to all Permian Basin Oil Show visitors and exhibitors who are and will be in Midland and Odessa this week.

Enjoy the show and come on back to see us at every opportunity.

BIBLE VERSE

Praise ye the Lord: for it is good to sing praises unto our God; for it is pleasant; and praise is comely. — Psalm 147:1.

'WHEN IT FLOATS TO THE TOP IT'S ALL YOURS'

Distributed by L.A. Times Syndicate

CHARLEY REESE

Wrong-thinking infects some union leadership

By CHARLEY REESE
Sun Belt Syndicate

Charley Reese

ORLANDO, Fla. — I have just read a copy of the United Auto Workers publication, "Solidarity." The people who write for it must have taken LSD instead of economics when they were in college.

At the outset, let me clear the air. This is no broadside attack against unionism. It is an attack against wrong-thinking which infects some union leadership just as it infects some of the leadership of most organizations.

A union is essentially no different than a Rotary Club. The rank and file tend to mind their own business and leave the organizational affairs to the few who have the time and inclination to fool with it and that is how both Rotarians and union members occasionally get into trouble.

Let me give you an example of the nonsense that is being pawned off on the UAW members. It's claimed that one way to create new jobs is for everyone who has a job to work fewer hours. Technically, that's true. If it takes 100 man-hours to make a widget and you subtract 40 man-hours of labor from the present work force, then obviously you've got to make up that 40 man-hours if you want to keep producing widgets.

But there are a couple of catches. One is that you are tempting the boss to find a machine that will make up that 40 man-hours. The other is you are increasing the cost of producing the widget. When you get the same pay for less work you are getting a pay hike and when pay hikes are not accomplished by an increase in productivity, they are inflationary.

The trouble with UAW economic logic is that it overlooks the fact that all of us are not only widget-makers but widget-buyers. There is no way a working man, union or non-union, is going to win when the game being dealt is inflation. Inflation is a game for big shots and they buy the pot every time.

Furthermore, this tactic could increase the price of widgets so that people will start buying Japanese widgets. Then, you've not only created no new jobs, you've destroyed the ones you had in the first place.

I'm suspicious anyway of union leaders who live in penthouses and are pally-wally enough with the Rockefellers to sit on the Trilateral Commission next to German and Jap bankers.

To save space, I can sum up the economic thinking found in "Solidarity" as socialism and any working man who buys that drivel needs to make sure his medical insurance policy will pay for shrinks.

Everything the UAW leaders claim they want for the U.S. already exists in England. They have over there "free national health care," closed shop, certain industries nationalized, and a government that asks, "How high?" whenever the trade unions say, "Jump."

Isn't it funny then that there are no great lines of people trying to get into England. No, it's not funny, especially to the British who are stifled by confiscatory taxes, eaten alive by inflation, destroyed in the world markets by the more productive Japs and Germans, and standing in the unemployment lines by the millions.

Socialism changed Great Britain from a world power to a fifth rate country that would be hard-pressed to win a war with Romania.

Every working man ought to get as much for his labor as he possibly can, but you can't change economic reality with ideology. If you kill the cow, you may eat steak for a few days, but your kids will have no milk.

The trouble with socialist thinking is that it concentrates on redistributing the wealth instead of creating wealth. You can't redistribute what doesn't exist and there's only one system that's ever produced enough surplus wealth to redistribute and that's capitalism.

Socialism is a con game, a scheme by which a few can make slaves out of the many. It's no accident that some of the biggest closet socialists both in England and America are the very, very rich. They know the score, and you can bet your last can of beer they aren't pushing a system that's going to cost them any money.

The working people in America had better wise up fast and start doing some independent thinking. When you start getting the same line from the president of the UAW and the chairman of the board of the Chase Manhattan Bank, you know they got something going.

It's beginning to look as if the only people in this country who really believe in free enterprise are the working people and the small independent businessmen. Well, if that's so, we'd better start speaking up — even if we have to challenge our "brothers" in the union.

WASHINGTON MERRY-GO-ROUND

FAA's rehabilitation program

By JACK ANDERSON

WASHINGTON — With one exception, every airline in the nation is taking part in an innovative program which encourages alcoholic pilots to come in out of the cold for help and rehabilitation. The lone holdout to this enlightened policy is Northwest Airlines, which punishes any pilot with a drinking problem by simply grounding him permanently.

The stubborn refusal of Northwest to try the new program has alarmed Federal Aviation Administration officials who devised it in 1972. Their statistics indicate that there are a number of Northwest pilots who are alcoholics, but who, because of the threat of losing their jobs, remain in the closet — and in the cockpit.

Jetliners carrying hundreds of passengers may thus have a chronic drinker at the controls. Pilots are forbidden to drink for 24 hours before a flight, and almost never does one turn up for duty in an intoxicated state. Even the alcoholics, it seems, confine their drinking to periods between flights.

But for a chronic drinker, a 24-hour drying-out period may not be enough. Even if the shakes of a hangover aren't evident, the pilot might well be impaired with poor coordination, memory lapses and delayed reactions.

Until six years ago, FAA rules required airlines to fire any pilot found to be a problem drinker. But this draconian penalty created more problems than it solved. Knowing that a confession was an instant ticket to the unemployment line, an alcoholic pilot would conceal his illness. Other crew members would cover up for him. As a result, only a handful of the nation's 40,000 commercial airline pilots ever came to be identified as alcoholics.

"We knew there were others out there," an FAA official told our associate Peter Grant, "we just didn't know who they were."

Under the new policy, a pilot who admits to a drinking problem is immediately grounded, but given a chance to get his wings back. Upon completion of a medical rehabilitation program, he can seek an individual FAA exemption and resume flying. But he must be strictly monitored by supervisors and doctors to make sure he lays off the sauce.

In 1976, the rules were further relaxed to allow a detoxified pilot to get back in the air only three months after completion of his treatment. "It was then the alcoholic pilots started coming out of the woodwork," an FAA official told us.

Every airline but Northwest initiated rehabilitation and monitoring programs, and problem drinkers began volunteering themselves, Some were identified by fellow workers, who knew they would not be condeming a colleague to financial ruin.

But this year, 200 alcoholic pilots have been rehabilitated and are flying again. In statistical contrast, only three of Northwest's 1,550 pilots have been labeled alcoholics and grounded in the past two years.

Of the company's hard-nosed, Victorian attitude toward alcoholism, an FAA official observed; "It encourages the alcoholic pilot to go underground and undetected."

The airline's adamant stand became an issue in the contract dispute with the Airline Pilots Association that led to a recent strike. Yet Northwest President Donald W. Nyrop refused to budge on the matter.

The only Northwest official who replied to our request for an explanation was chief counsel James Abbott, and his response was no explanation at all. "It is not appropriate to make this a public issue," he said. "You do not understand our policy, and I am not going to discuss it with you."

Industry sources, including some within the Northwest organization, lay responsibility for the airline's rejection of the rehabilitation program on Nyrop alone. The able, 66-year-old corporate president is described as an individualist whose rigid attitudes toward drinking stem from his childhood in a small Nebraska town.

One source commented: "He doesn't accept alcoholism as a disease. He thinks everyone should have enough discipline to put down the bottle."

The FAA is reluctant to publicize Northwest's foot-dragging, because the treatment program is not mandatory. The only official contact on the subject was a letter from the FAA's Air Surgeon Dr. Homer Reighard to Nyrop.

But off-the-record, FAA officials are dismayed at the company's recalcitrance. The pilots' union — citing a ruling by Atty. Gen. Griffin Bell that alcoholism is a work disability falling within the 1973 antidiscrimination law requiring employers to help disabled workers — has asked the Labor Department to investigate the situation at Northwest.

Officially, the Labor Department has refused comment on the progress of the inquiry. But one source close to the investigation expressed astonishment at Northwest's stand. "Who would you rather have flying your airplane," he asked, "a dried-out alcoholic or one that hasn't been rehabilitated?"

NICK THIMMESCH

Women in politics are being taken more seriously

WASHINGTON — The impulse of women to run for office tapered off some this year. But the women who are running are taken more seriously because they go about their political work in a more professional fashion.

Gradualism is probably the best course here because by showing through performance that they know what they are about, women candidates will gain respect, and thus the chores of public office as well.

This year, there are 43 women running for Congress, two for the U.S. Senate and, according to the National Women's Educational Fund, the number trying for state legislature will at least equal the 12,060 who gave it a go in 1976.

Despite the flapdoodle about the Equal Rights Amendment, its extension and other so-called victories for the feminist cause, the woman who lets it out that she wants to run for public office doesn't have the easiest time.

Political action committees, those bottom-line outfits in politics, put their money on likely winners, and women candidates aren't regarded as likely winners as often as men candidates are. In politics, a woman is stuck with proving herself beyond the call of duty.

Indeed, when I visited the Republican congressional campaign committee last week, where staffers were confused about just how many women candidates they had, nine of their 17 aspirants were described as "throw-aways." In the old politics, these women would have been called sacrificial lambs.

Even so, four incumbent Republican congressmen figure to be re-elected, and four non-incumbent women are rated as having a good chance to win.

Nick Thimmesch

Additionally, there is Nancy Landon Kassenbaum, celebrated daughter of Alf Landon, the GOP presidential candidate in dust bowl days. Mrs. Kassenbaum is running for the U.S. Senate in Kansas. (The Democrats have a Senate candidate, too, Jane Eskind, who is challenging Howard Baker in Tennessee.)

Of those GOP women newcomers, the youngest candidate is Olympia Snowe, not the name of a beer, but of a 30-year-old widow trying to win the seat vacated by William S. Cohen when he opted for a Senate race.

Mrs. Snowe was elected to her husband's chair in the Maine House after he was killed in an automobile accident in 1973. She was re-elected, and later made it to the State Senate.

Sandy Smoley, of Sacramento, Calif., is another Republican woman with a good shot at a congressional seat. Like Olympia, Sandy has the blessing and some of the bucks bestowed by the Women's Campaign Fund, an organization which claims it is out to elect women, but, in actuality, runs a feminist litmus test on them.

"We give no money to candidates who are not pro-choice on the abortion question," says Carol Randles, WCF's rather fetching director, "even if they are right on all the other women's issues."

Tsk, tsk. But WCF is also confused about labels. It has described New Jersey Republican congresswoman Millicent Fenwick as both "progressive" and "conservative," and also applies the "conservative"sticker to Democratic aspirant Virginia Shapard of Georgia.

Throughout its literature, however, the opponents of WCF-endorsed candidates are scornfully described as "conservative Republican" or "a conservative prosecutor" or "an ultraconservative GOP businessman" and so on. Such nonsense. Even liberal — whoops, "progressive" — Democrats know better.

It seems that if women politicians rise above feminism, they won't lose the way Bella Abzug did three times in a row. A woman must run as a candidate, not as a feminist. If her constituency is conservative, she had better talk rationally about conservative issues. If the majority of her constituents are skeptical about federal funding of abortion, she must heed that or she will lose votes.

There is a tendency here in Washington, both at the Democratic and Republican campaign headquarters, to be more chic than the rest of the Republic. The hired hands at the Republican congressional campaign committees, for example, tend to put down women candidates of the conservative persuasion.

Republican women, however, of varying ideological persuasion, are getting more involved in elective politics. In 1974, 30 of the women running for Congress were Democrats and 14 were Republicans. In 1976, it was 34 Democrats and 18 Republicans. This year, it is 26 Democrats and 17 Republicans.

Unlike the rest of the Republican Party, the Republican women aspirants are making a credible showing in catch-up politics.

BROADSIDES

The Country Parson

by Frank Clark

"A lot of failures are caused by folks working too hard at things they shouldn't be doing in the first place."

the small society

by Brickman

The energy bill: Regulation but better than no bill at all

EDITOR'S NOTE: Writing an editorial column for The Reporter-Telegram was among items auctioned off during Auction '77 staged as a benefit for the Museum of the Southwest. Midland independent oil producer Ralph E. Williamson was the winning bidder.

By RALPH E. WILLIAMSON

Many people have written about the energy bill since its introduction seventeen months ago. Now that the bill is finally emerging from Congress, it is my turn.

The bill's passage or non-passage has been wearing on my nerves ever since President Carter announced it in March of 1977. Most of us in the oil and gas industry want to know the rules under which we are to operate. This continual changing of the rules, or worse no rules, or even worse retroactive rule change, is extremely aggrevating. Every oil man I ever met, including myself, would like a free market unhindered by federal government regulation. To my knowledge no federal regulation has ever helped find a barrel of oil, only increase the expense and time of doing the same job. But, today, with every business decision greatly influenced by the federal government, it is sad how much you don't get to keep in a deal (tax policy), which makes or breaks the deal. But given the continued liberal (socialist) drift of Congress, federal regulation of every phase of American life shows no signs of decreasing. Regulation of the domestic energy business has increased greatly since the Arab oil embargo. This energy bill is but the latest example.

I have, however, supported the energy bill, gas compromise and all, as being the best compromise available from the present Congress, and as being better than no bill at all, since Congress has shown a desire to continue to meddle in the domestic energy business, and an energy bill from the next Congress would probably be worse. Today we need $2 per thousand cubic feet net to search for the mediocre unfound reserves available. Prices under the energy bill don't come up to this price, since under the bill, for the first time, the producer will have to pay for the cost of service, 10 cents to 30 cents per thousand cubic feet. There will be a lot of gas immediately available for public use when the interstate companies are allowed to compete pricewise — I believe ten billion cubic feet per day in Texas. The forced sharing arrangements between intrastate and interstate companies contained in the bill will make even more gas available during peak demand periods, such as the prolonged cold spells in the winter of two years ago and will mean a better market for the independent gas producer.

I have never subscribed to the "Let them freeze in the dark!" theory. People in New York, New Jersey or Connecticut, or any other non-producing areas of this country are still Americans, no matter how uninformed they are and no matter how narrow-minded and regionally partisan their elected representatives. Now, for the first time, they will be paying the same prices for new supplies as we in Texas have been paying for some time, and with the continuing increase in the use of lignite coal, combined with new supplies of gas, which will be brought into the market place if the energy bill is allowed to function as legislated, people in Texas will not run short of energy. No significant intrastate market exists today for newly discovered gas. Gas transportation facilities are clogged full of gas, and existing producing wells are being cut back to 20 percent of capacity in many cases. The entry of interstate carriers, fierce competitors, into the intrastate market will be a very healthy addition to the market place. I am for sending gas to where the market will take it, out of state or not. Any increase in domestic oil or gas production has got to reduce imports. We have got to conserve energy by one means or another and we have got to produce more domestic energy by whatever means available.

I applaud the regulation which mandates greater gas efficiency for cars. This brings me to my main problem with the energy bill — not the bill, but what happens after its passage. If the government would allow the price escalators to work, and not keep changing the rules, prices will rise and more reserves will be brought into active exploitation. There is a tremendous amount of oil and gas out there to be found and produced, gas especially, but in small quantities per well. A poor well always costs more than a good well to drill, complete, and produce since it is more trouble and trouble in the oil patch equals expense. I have very little faith in Washington's sincerity as concerns the oil industry. We have been and are being treated over and over again like the American Indian, treaty made treaty broken.

A case in point is the pricing of oil. After a long series of price freezes and rule revisions, the Federal Energy Administration established a national average price for crude oil, in May of 1976. The national average oil price rose as scheduled for only two months (another broken treaty). The government had misfigured the percentage of new oil. This led to a price freeze, and eventually to a rollback of oil prices of 60 cents per barrel in March of 1977 to make up for so-called cummulative "deficiencies." The FEA accused the oil producers of over-charging and profiteering when the FEA's own faulty accounting procedures created the problem. During this freeze and rollback period, the theoretical national price of crude continued to increase. President Carter has continued this trend of under-paying the legally allowed prices, only recently allowing the price of oil to rise. Meanwhile the commulative "deficiency" has become a two and one-half billion dollar surplus of under-payments to producers.

This is money which producers are legally entitled to and money which could have gone for exploration. Secretary Schlesinger, well aware of this fact, has generously offered to pay this money to the producer in the form of higher oil prices in return for producer support of the energy bill (paying us off with our own money). The price of oil is now $1.25 a barrel less than we are legally entitled to have. The price of oil in West Texas is only just now approaching the price it was in March of 1977, meanwhile prices in the oil patch have gone up 20 percent. Imports have soared to one-half of domestic usage and the dollar has lost 40 to 90 percent of its buying power overseas due principally to the balance of payments deficit caused by massive oil imports. Domestic energy costs cannot be blamed for continuing inflation since oil prices are less today than they were two years ago and inflation has kept right on going. Independent producers have no access to public markets and we must have oil and gas prices which reflect our true economic situation. We cannot stand a gas pricing fiasco, such as we have had in the past with oil prices. The producer needs firm gas and oil prices on which to base his decision to drill or not to drill.

It has been stated that one of the major failings on the gas bill is the many price categories for natural gas of identical composition (17 different prices by one count). This should not be a great problem because most interstate gas companies have a staff of lawyers to figure out which gas price applies where, and in the past the interstate gas companies have been perfectly willing to pay the allowable pass-through gas price for any gas they purchase. There will be no price competition for gas under the energy bill, only service competition. But, prices in all categories are higher than those interstate prices now in effect, and about the same as present intrastate prices. There is today no intrastate market for new discovered gas. The depth and distance criteria for new gas contained in the energy bill are arbitrary and bear no relation to subsurface reservoir conditions and developmental risks, but at least distances and depths can be measured and economic decisions made accordingly.

In conclusion, I support the basic aims of the energy bill — to promote conservation and stimulate domestic production. Contrary to most government studies, there is a lot of oil and gas out there to be found and produced but at great risk and great expense. Imports must be cut by whatever means available. Gasoline rationing would be better than economic torture at the hands of the OPEC. The energy bill provides the barest minimum of incentive for increased domestic production, but only if these incentives are allowed to stand as legislated. Sen. Jackson has recently said that "if prices get out of hand Congress will move in," so the energy price regulation war will continue, the producers versus the consumers. I do not expect gas to be deregulated by 1985 or by any other time but even the most liberal in Congress have acknowledged that higher prices are needed to stimulate production.

The debate in Congress is how high prices will be allowed to rise, how fast and at what total cost to the consumer. The real debate should be over the relative cost to the economuy in terms of unemployment and inflation of continued massive oil imports versus the cost of higher priced domestic energy. The domestic producer needs prices which will give him a reasonable rate of return, given the economic, physical and emotional risks involved in drilling an oil or gas well. There are very few investments that can result in a total loss — a dry hole is one of them. Sen. Jackson's advice to "not drill any dry holes" offers little solace to the hapless oil operator who has just drilled one. We in the domestic oil business do not need another broken treaty. With this energy bill, given a chance to work, the domestic producer, and the rest of the people in the country, by practicing conservation, can make a start at reducing imports and stopping inflation.

If we can stop inflation we all might just get by.

AUSTIN NOTEBOOK

Laws, too, have faults; Remedy subject to vote

By BILL KIDD
Austin Bureau

AUSTIN — "The law is the true embodiment of everything that's excellent," sings the Lord Chancellor in the Gilbert and Sullivan operetta "Iolanthe.

"It has," he continues, "no kind of fault or flaw, and I, my Lords, embody the Law."

All that's simply hyperbole — since laws have as many faults as the people who make, administer and live (or fail to live) under them.

Texas is no exception to that, and the Texas court system, like all human institutions, has its problems.

One of those problems has been the overcrowding of those courts — and that's what one of the constitutional amendments to be voted on Nov. 7 is aimed at alleviating.

That proposal, which was passed as SJR 45 by Sen. A.R. (Babe) Schwartz of Galveston, would allow expansion of the 14 existing courts of civil appeals and would allow the judges to sit in panels.

Legislation will be needed, if the amendment is approved, to determine the number of judges to be added to the courts and procedures for handling cases by panels.

Voters recently approved expansion of the Court of Criminal Appeals to nine judges, who sit in panels of three, and that change appears to have helped eliminate the backlog of cases in that court — which is the appeals court for all the criminal cases from lower courts.

State Supreme Court Justice Joe Greenhill, speaking to the Judicial Section of the State Bar recently, agreed that one thing does indeed need to be done.

But Greenhill indicated he also agrees with critics of the proposed amendment, who have called it another "bandaid approach" to a serious problem requiring the legislative equivalent of major surgery.

Greenhill notes that last year, 140 counties in the state had less than five jury trials, which he feels indicates some courts are under-worked — while many of those in metropolitan areas are over-worked.

For the appeals courts the situation has been similar.

In 1977, there were 41 cases filed with the Tyler Court of Civil Appeals, 48 in the Eastland court, and 62 in the Texarkana court — while the Dallas court had 346. The average for the 14 courts was 141.

The Supreme Court has authority to transfer cases from crowded courts to less crowded ones — and does so — but the practice has been criticized as, among other things, defeating the idea behind having elected judges.

As a report by the House Study Group on the proposal notes, "People in Houston might be unhappy about the decisions of the Eastland judges but there's nothing they can do about it."

Opponents also contend the change could result in some additional confusion by having different panels of the same court reach different decisions on the same legal principle.

Of course, the same sort of problem can result at present — which is why there's a Supreme Court to eventually sort everything out.

Opponents also say Texans just don't want any more judges — and that may be true.

However, as Justice Greenhill notes, there are more Texans — who are getting more divorces, committing more crimes, and filing more lawsuits on one another.

And obviously, if there's more work for judges to do, that work will have to be done by more judges, or it will have to be better distributed.

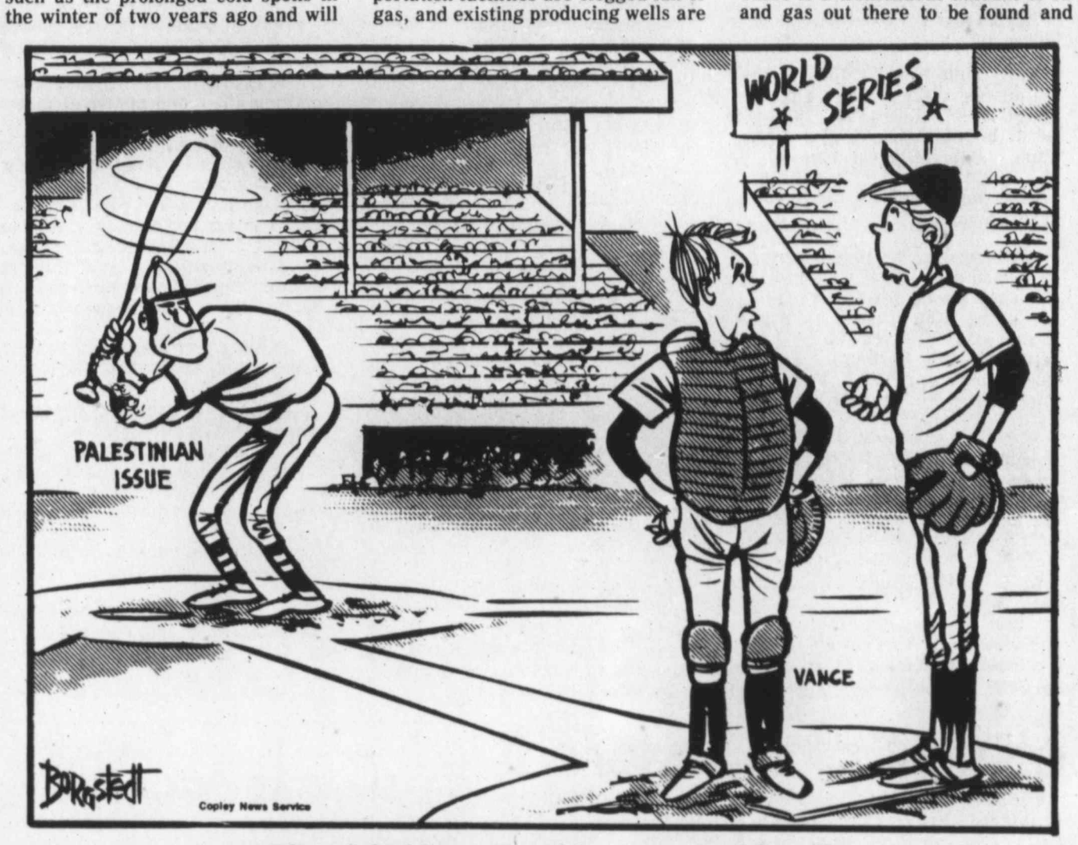
Judicial reform, unlike tax reform, has never been a particularly headline-grabbing, bandwagon-starting, "sexy" issue, perhaps because courts are seen generally as something for "them" rather than "us."

Greenhill also notes there is an "image problem" for judges, particularly in rural areas, with the impression being that judges don't work very hard, although he says, that's wrong.

Lawmakers themselves have indicated on occasion they feel judges should be working harder — and perhaps the so-called "Speedy Trial" act might be seen as a prod to get the "law's delay" reduced.

Judicial reform should be an issue for the 1979 session — whatever decision the voters make Nov. 7 on expanding the courts of civil appeals.

It won't be "solved" since, like the law, it's an ongoing process — and the solution will likely embody some of the flaws of the men and women who offer it.



"Careful-this guy could ruin everything-!"

BROADSIDES

LETTERS TO THE EDITOR

Same punches

To The Editor:

It is the time of year that political candidates begin taking off their gloves and swinging away freely. And it is at this time that we find out not only who speaks effectively, but also who speaks to the important issues.

In the crucial race for the U.S. Congressional seat in this district, George Bush has been swinging away since the beginning of the general election. He has been hitting on the issue that his opponent, Kent Hance, cannot effectively represent conservative West Texans because he will be pressured by the liberal Democratic leaders like Tip O'Neill, Speaker of the House.

Now Mr. Hance has taken a swing. He stated last Tuesday in Dimmit that in his last four elections he has been outspent by his opponents, and he suggested that George Bush was trying to buy the election.

In response, first of all, nobody's vote is for sale.

And secondly, let's look at the facts. As reported by the Federal Election Commission at the end of the primary, the following are total contributions to the candidates: Kent Hance, $139,000; his opponent, Morris Sheets, $95,000, and George Bush, $134,000.

That is a lot of money. It shows the importance which everyone attaches to this race; and it is indeed fortunate that all the candidates have money enough to wage an effective campaign in such a large district.

But it smacks of demagoguery for Mr. Hance to make misleading statements in his hometown which tend to give him a "poor boy," underdog appearance. And it is disappointing to see Mr. Hance taking his gloves off to take the same tired, old political punches at something that is not really an issue at all.

L.E. Sawyer Jr.
1405 Community Lane

Only the rich?

To The Editor:

This isn't really a complaint, just a question. On Tuesday Ronald Reagan will be in town supporting the Republican Party. Tickets are available for $100 per person. Now, I realize political parties need money to operate — so does my family! But why are these rallies always so expensive.

I don't consider us "poor," although a lot of people do I guess, but we in no way can afford affairs such as the above. Do politicians think that only the rich people vote? Or maybe they only care about the ones that can hand over some of that green stuff.

In no way am I putting Mr. Reagan down — this happens in both political parties. I'm just using this as an example. Just because some people can pay $100 a ticket doesn't mean they are the only ones that can understand the issues of a campaign. I would appreciate seeing some other peoples' feelings voiced on this.

Cindy Duncan
Rt. 3, Box 620-A

Changing times

To The Editor:

Times have changed. No longer can we rely on having the strong voices of Texans like George Mahon and Sam Rayburn who have risen to positions of leadership where they have been able to encourage responsible, conservative government.

Today, Congress chooses its leaders in a different way than in years past. It is the collective will of the Party Caucus, rather than the seniority system, which is the determining factor in the committee chairmanship assignments.

Also, today we see an unfortunate change in the abiding principles of the Democratic leadership in Congress. Exemplified by Tip O'Neill, presiding over the House, and Walter Mondale, presiding over the Senate, the will of the Democratic leadership is woefully out of tune with the conservative, fiscally responsible beliefs of West Texans.

This change in the leadership of the Democratic Party over the past years is added cause for West Texans to lament the retirement of the Honorable George Mahon, who for 44 years has served us truly and served us well.

This change should also make us acutely aware of the importance of replacing Mr. Mahon with a man who has the same strong beliefs in limited government and who, hopefully, will have the same force of character and attain the same stature of leadership.

We West Texans are fortunate to have such a man: George Bush. George believes in responsible, conservative government; he has shown the force of character to quickly become a leader in Congress; and he has the energy and tenacity to fight toe-to-toe against the liberal Democratic leadership.

Let us take note of the change that has occurred in the Democratic Party leadership. Let us be proud and ever grateful to the Honorable George Mahon. And let us be thankful to have a candidate of such promise as George Bush to continue responsible, conservative representation of West Texas.

Thornton Hardie
Midland

Reactor reaction

To The Editor:

While France, Russia, Brazil and India are building breeder reactors, the U.S. is mired down in a morass created by the irrational and emotional outbursts of the anti-nuclear crowd. So much so that we cannot proceed with the light water reactors even though the sixty currently operating have proved themselves to be safer as a power generating method than coal fired plants.

Two articles in your Friday, Oct. 6 edition exacerbate the problem

1. Page 8: Headline, "Panel says nuclear safety lacking," Los Angeles Times byline. Why not choose the quote from Chairman Lewis, the last sentence in the article, which stated, "And finally, there is safety. In my view, it's the least worrisome aspect of nuclear power." A better headline might have been, "Safety least worrisome aspect of nuclear power."

2. Front page: "Dam bursts, seven dead," AP byline. "A temporary dam near a nuclear-powered generating plant..." It develops that the dam has nothing to do with the plant and was a project of the Greenville Water System. But the message is clear...there's more audience if the spectre of nuclear holocaust can be invoked.

If sensationalism is the goal, you might assign a reporter to this story — the Capitol Building in Austin is made with a facing of granite and the radiation from the blocks is probably sufficiently high so that the radiation level violates Nuclear Regulatory Commission standards for a nuclear reactor. Ergo, "Radiation Hazard Exists at State Capitol" for a headline, and a few warnings at the entrances..."This building may be hazardous to your health!"

William A. Heck
2602 Terrace St.

Note of thanks

To The Editor:

The coverage given to St. Ann's Family Fair by The Midland Reporter-Telegram was outstanding! We are grateful to you for providing such a boost to our efforts. Thank you for your generous and well-done publicity.

We at St. Ann's are greatful, also, to the entire community of Midland for being a part of the beautiful fair day and for sharing the fun with all of us. Without this marvelous community support and the gracious donations of Midlanders, such success would not be possible. Thanks!

Herb and Pat Stanley
General Chairmen
St. Ann's Family Fair 1978

Start at home

To The Editor:

I would like to call attention to rip-offs on service calls and small repair jobs. I had been told about these things but couldn't believe it was true until I called for and had some repairs done.

I wanted some wall heaters checked before winter, and having bought the home this year and moving here in June, I called a heating and cooling firm. They sent a man who told me I needed a new control valve, also the copper line was the wrong kind. I told him to do what he needed to do.

He removed the old valve, left for lunch, and came back later with a young boy. Anyway, the job they did took about half a day. However, my labor bill was $162, materials cost $68.50 and $3.43 for tax for a total of $233.93.

I have made lots of trades and had lots of service work done, as I have owned some apartments at one time for a period of 15 years. Never have I been taken like this before. After talking to a few people, nothing was unusual, as they had experienced the same.

I am 69 years old and never had such an outlandish bill. I paid it, though it was a job I could have done myself. Next time I will do my own work, licensed or not.

If we are going to end inflation, it seems we need to start at home.

Paul Bishop
2602 N. Midkiff St.

Don't WIPP us

To The Editor:

The recent rally in Carlsbad by the Citizens for Alternatives of Radioactive Dumping (CARD) demonstrated active protest against the WIPP. This is not only protest in New Mexico but Texas, Louisiana and Georgia. Is there any organized opposition in Midland? I would like to get in touch with them if possble.

Midland has been given to understand the radioactive material to be dumped is commercial waste, pelletized and in small containers. However, 3,500 truck and train car loads per year are scheduled to pass through Texas, much of it Midland, and that's 10 per day.

Ninety-five percent is military waste for which there is no insurance against damages. Property values go down along the routes for that reason and the 13 predicted accidents over the next 20 years will be Texas' and-Midland's responsibility to clean up. I hope that since clean industry is discouraged by these facts, we can attract experts in radioactive pollution and radioactive sickness because we're going to need them.

I think the states that have the mess, South Carolina, Idaho and Washington should take care of it. Don't ship your problems to us.

Susan Setzler
4101 Dawn Circle

'Bookish' thanks

To The Editor:

Thank you to all those wonderful bookworms of Midland who once again made the Friends of the Library annual used book sale such a success. All of the monies you spent on books of your personal choice will return in the form of even more services from your Midland County Library.

And a very personal thank you to all the men and women, and Boy Scouts of Troop 152 who gave untold hours of hard work to ensure this success.

To all the media for their wonderful coverage, as always our grateful appreciation for spreading the word.

Colleen Scury
President, Friends of the Library

Edward Roybal

Charles H. Wilson

John J. McFall

Birch Bayh

Congressmen jailed, reprimanded in Korean influence-buying scandal

WASHINGTON (AP) — Investigations of the South Korean influence-buying scandal are ending with one former congressman in prison, another facing trial and three present House members reprimanded.

The congressional and Justice Department probes concluded that South Korea carried out elaborate plans to bribe or influence U.S. congressmen, but enlisted only one: former Rep. Richard T. Hanna, D-Calif.

Hanna went to jail in Montgomery, Ala., last May after pleading guilty to conspiring to defraud the government. Hanna, who will be paroled next September, admitted working with South Korean rice dealer and Washington party-giver Tongsun Park to influence congressmen to support Seoul.

Former Rep. Otto Passman, D-La., faces trial on charges of taking bribes from Tongsun Park to help Park get rich selling U.S. rice to South Korea.

The House on Friday reprimanded former Democratic Whip Rep. John J. McFall and fellow California Democratic Reps. Edward R. Roybal and Charles H. Wilson for not reporting contributions from Park.

None of the three was accused of being influenced by the South Korean money.

Park gave $3,000 to McFall, $1,000 to Roybal and a $1,000 wedding gift to Wilson.

While some House Ethics Committee members acknowledged they expected their "Koreagate" probe to result in more than just the reprimands, Rep. Millicent Fenwick, R-N.J., commented, "We may have brought forth a mouse, but it was an honest mouse."

On Saturday, 16 Republican congressmen urged President Carter to appoint a special prosecutor to reopen the probe. Rep. Robert S. Walker, R-Pa., said, "Our legislative system wrestled with Koreagate and has been found wanting. I believe the American people deserve better."

The Senate Ethics Committee is recommending the Justice Department investigate whether Sen. Birch Bayh, D-Ind., or an aide broke the law by allegedly taking $1,000 from a friend of Park's in the Capitol.

Bayh has denied getting the $1,000 in his office.

A 1948 law prohibits congressmen and aides from accepting campaign contributions on federal property but the law apparently has never been enforced.

The Korean probe was one of two major investigations by the 95th Congress. Half a dozen senators and House members still are being investigated in smaller probes of alleged misconduct unrelated to the Korean scheme.

The other major investigation is the House assassinations committee's $5.8 million inquiry into the murders of President John F. Kennedy and Dr. Martin Luther King Jr.

It has found no conspiracy in the Kennedy assassination but is still investigating an allegation that a group of St. Louis businessmen offered a $50,000 bounty to murder King in 1966, two years before he was shot in Memphis.

The investigation produced new scientific evidence to support the Warren Commission's conclusion that Lee Harvey Oswald fired all the shots at Kennedy in Dallas on Nov. 22, 1963.

But G. Robert Blakey, the panel's chief counsel, said at the end of a month of hearings the probe may not answer the question of whether Oswald was manipulated by organized crime or other conspirators.

Region XVIII percentage figures compared in education assessment

Austin Bureau

AUSTIN—Figures developed by the Texas Education Agency in its assessment of the mathematics and reading skills of public school students throughout Texas aren't broken down by individual districts, but have been compiled by education service center regions.

Education Service Center Region XVIII incliudes the counties of Midland, Andrews, Brewster, Crane, Culberson, Ector, Glasscock, Howard, Jeff Davis, Loving, Martin, Pecos, Presidio, Reagan, Reeves, Terrell, Upton, Ward and Winkler.

Following are the categories shown on the break-down by the TEA for various categories of "objectives," with the statewide percentage figure followed by the percent of 11th grade students in Region XVIII achieving the objective.

Mathematics

—Use of addition facts through 10 plus 10 in addition and subtraction, 96, 94.

—Reading and interpreting mathematical information on a chart or graph,93, 96.

—Use of multiplication facts through 10 times 10 in multiplication and division, 91, 90.

—Counting various combinations of paper money and coins up to $100 and making change for purchases, 90, 95.

—Adding, subtracting, multiplying and dividing using measures and solving problems involving measures, 84, 88.

—Solving problems using addition, subtraction, multiplication and/or division, 77, 82.

—Adding, subtracting, etc., decimal numbers to three places, 77, 79.

—Using scales to indication location and maps to determine distances between two geographical locations, 76, 81.

—Using skills to keep personal records, such as banking accounts, income tax records, planning budgets, etc., 65, 72.

—Using ratios and percent in problem solving such as comparison, interpreting charts, reducing or enlarging sizes, etc., 65, 69.

—Adding, subtracting, etc., fractions, 61, 68.

Students involved in the test statewide were 14 per cent black, 18 per cent Mexican-American and 68 per cent "other," compared to the region, which was 7, 17 and 76 per cent, respectively.

Reading

Following are the categories shown for the sixth grade reading results.

—Using an index to locate information, 94, 92.

—Using context to understand words, 93, 94.

—Explaining and relating to the feelings and emotions of charactors, 90, 91.

—Following a set of written directions, 88, 90.

—Using maps, charts, graphs and schedules to get information, 86, 85.

—Arranging a list of events in sequence, 85, 86.

—Identifying the main idea, 84, 83.

—Recalling specific facts and details, 80, 81.

—Drawing logical conclusions, 66, 69.

—Distinguishing between fact and non-fact, 62, 60.

—Predicting probable future actions or outcomes, 62, 59.

Students involved in the tests were 17 percent black, 26, percent Mexican-American and 57 percent "other," statewide, compared to 7, 34 and 59 percent respectively for the district.

Statewide, sixth grade students averaged in the 47 percentile on reading vocabulary and 44 on comprehension, for a total 45 percentile rank.

For the region, the comparable figures are 46 and 47 for a 46 percentile.

In mathematics, the statewide average on computation was 54, with 43 on concepts and applications, for a total percentile rank of 48.

For the region, the figures are 54 and 45 for a 49 percentile.

Parents Without Partners to meet

ODESSA — Representatives of approximately 30 Texas chapters of Parents Without Partners will gather in Odessa late this month for a state meeting.

Parents Without Partners is a national organization of single, widowed or divorced parents. International headquarters of the organization is in Washington, D.C.

The Odessa convention will be the last weekend in October at the Inn of the Golden West. Highlight events of the weekend gathering will be Friday and Saturday night dances in the Inn of the Golden West ballroom.

Hospital cost control plan ignored

WASHINGTON (AP) — Despite intense administration arm-twisting, Congress refused to adopt President Carter's much touted plan to slap federal controls on rising hospital costs during the last hours of this session.

House Speaker Thomas P. O'Neill Jr. told reporters that he was too wrapped up in last minute energy and tax legislation to worry about hospital cost containment issues days now.

Carter's attempt to curb inflation in the hospital industry dropped by the wayside when the House and Ways Means Committee failed to muster enough votes to approve it.

According to sources, who asked not to be identified, a HEW poll of members indicated the committee was about four votes short of the majority needed to report the bill out.

The Senate had dumped the issue into the House's lap on Thursday. It passed the hospital cost containment bill after pressures by Health, Education and Welfare Secretary Joseph A. Califano Jr.

Califano and his staff also personally buttonholed wavering members of the Ways and Means Committee, but to no avail.

Lamesa board to meet

LAMESA — The Lamesa Independent School District's board of education will consider a 21-item agenda in its 7:30 p.m. Monday meeting in the library of Lamesa High School.

Agenda will include discussion on energy problems, the tax office, activity funds, student suspensions and expulsions, the student-teacher ratio and community schools concerns.

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$ RE-DISTRICTING the County Commissioners' precincts immediately so that EVERY person's vote counts equally. The population is not equally divided among the precincts and this is UNFAIR.

$ Withdrawing the county's endorsement of the Midland Community Action Agency as the city and school district have done. This AGENCY has had NUMEROUS discrepancies in the handling of its FUNDS.

$ A ZERO BASED BUDGET approach to county expenditures. Each department should JUSTIFY each budgetary request.

$ Appointment of the BEST QUALIFIED applicant for any county job. Partisanship should not be the only yardstick by which to JUDGE an applicant for a county job or office.

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Dr. William A. Riley

Dr. Kenneth C. Scholz

Dr. B.K. Khandelwal

Three prominent area doctors to speak at forum on arthritis

Three physicians will be guest speakers at a public forum on arthritis scheduled for 7:30 p.m. Thursday in the Central YMCA Health Club, 800 N. Big Spring St.

The forum is being sponsored by the West Texas Chapter of the Arthritis Foundation.

Speakers will be Dr. William A. Riley of Big Spring, Dr. Kenneth C. Scholz of Lubbock and Dr. B.K. Khandelwal of Midland.

The forum discussion will center on the various types of arthritis, methods of treatment and tips for arthritis victims to help their condition.

Dr. Riley is with Malone-Hogan Clinic in Big Spring and limits his practice to internal medicine and rheumatology. He is a native of Nogales, Ariz., and was educated at Texas Western College and Baylor University College of Medicine.

He did postgraduate medical training at City Memorial Hospital in Winston-Salem, N.C. His residency in internal medicine was at Baylor University College of Medicine. He spent two years in the Fellowship Section of Rheumatology at the Houston medical school.

Dr. Riley currently is vice president of the West Texas Chapter of the Arthritis Foundation.

Dr. Scholz is a resident of Lubbock where he is associate clinical professor in orthopedic surgery at Texas Tech University School of Medicine.

He is a native of Kingsville and attended Baylor University at Waco. He earned his bachelor of arts degree from Texas A&I College. Dr. Scholz received a DDS degree from Baylor University College of Dentistry.

He served residency and fellowships at Parkland Memorial Hospital, Baylor Medical center, Southwestern Medical School and Texas Scottish Rite Hospital for Crippled Children in the fields of general surgery, orthopedic surgery and rheumatology.

He is on the active staff of Methodist Hospital, St. Mary's Hospital and University Hospital in Lubbock. He is certified by the American Board of Orthopedic Surgery.

Dr. Khandelwal, a native of India, received his doctorate in medicine from Jiwhai University. He served his internship at Toronto General Hospital, followed by residencies at the University of Western Ontario.

He is certified by the American Board of Rheumatologists and in internal medicine.

Any person with family members who are victims of arthritis, are victims themselves or who are interested in knowing more about the disease is invited to attend.

Liquid protein diet food craze apparently dies 'natural' death

By LEE MITGANG

NEW YORK (AP) — Liquid protein, the "natural food" diet fad used by thousands only a year ago, has died a natural death.

Two summers ago, bottles of the hot-selling syrupy liquid were piled high in drug stores across the country. Merchants barely had time to unpack it because, even at the high price of $12 a bottle, many stores sold out of hundreds of bottles of the stuff every week.

But a year ago, the government revealed that the potion was the suspected cause of as many as 16 deaths.

Now it's hard to find liquid protein in many drug stores, once the main outlet for the diet substance. It has been consigned to the back shelves of health food stores, collecting dust, often unsold past the expiration dates named on the bottles.

"We were selling hundreds of bottles last year. Now we're lucky to sell 10 bottles in a week," says Tony Nigro, manager of the General Nutrition Center in New York. The price of a bottle is down to $7.77 in that health food store.

The sensational success of the diet ended abruptly after the Food and Drug Administration last November announced it was investigating reported deaths among dieters using liquid protein. The FDA said it would recommend a warning label on bottles.

The immediate and devastating effect that announcement had on sales has meant that the government feels little urgency to ban liquid protein in the near future. Nonetheless, the deaths and possible future health risks remain medical mysteries, and the Center for Disease Control in Atlanta is still searching for answers.

According to Dr. Harold Sours, who is conducting the CDC investigation of the diet, the suspicious deaths occurred between July and November 1977, all were women, and all of them died of myocarditis, an inflammation of heart tissue that is considered very rare in women under 60 years old.

"It was such a strange finding. All the women had been on the diet for an average of five months, and were religious adherents of liquid protein, hardly eating any other food," he said in a recent interview.

Last March and April, Dr. Sours says the center conducted a telephone survey to estimate how many women between the ages 25 and 44 were on liquid protein for more than a month in 1977. Based on the findings, Sours says that about 98,000 women — men were assumed to be infrequent users of the diet — had taken liquid protein for at least a month. And about 37,000 of them used it for two months or more.

Sours further estimates that female users of the diet increase their risk of death from myocarditis 30-fold over the normal death rate of one or two per 100,000.

But Sours and other investigators remain mystified over just what it is about liquid protein that endangers users' lives. Some earlier theories about bacterial or chemical contamination have been judged unlikely, "but we can't rule anything out yet," says Sours.

More likely, in his opinion, is that the protein used in the product is of low quality, lacking in some key components known as amino acids essential to keep muscle tissue in the heart healthy.

"So, in effect, the heart was aging and dying prematurely," he says, adding that tests done on liquid protein patients often revealed heart irregularities found in starvation.

But it is also possible that, apart from a protein deficiency, the 300 calories a day the liquid diet provides are just not enough to sustain normal health.

Most of the other health dangers reported by users of the diet — hair loss, loss of libido and abdominal pains — are by and large reversible, according to Sours. But the center is concerned over the possibility that users of the diet may have laid the seeds for future heart trouble, although "we have nothing to back that up yet."

Government officials say it is likely that liquid protein will be as difficult to legally ban as tobacco, for many of the same reasons. While statistics show the diet can lead to specific health risks, it may be difficult to show just what it is about the diet that causes the problems.

Next Davis court battle at least one week away

By ROB WOOD

HOUSTON (AP)— There will be at least one more week before another legal chapter begins in the trials of Cullen Davis, a 45-year-old Fort Worth millionaire who has spent most of the last two years either in jail or sitting in a courtroom.

First it was in the West Texas city of Amarillo out in the plains where it can go from hot to cold in one hour, and then to the bustling city of Houston, where already a new one-year record for murders has been established with three months to go and it can turn from hot to hotter in one hour.

Davis is accused of soliciting the murder of Fort Worth Judge Joe Eidson, the jurist who presided during most of the bitter four-year divorce hearings of Davis and his estranged wife, Priscilla.

It was late last year that Davis was found innocent of capital murder charges in the slaying of his 12-year-old stepdaughter.

That trial, the longest and costliest in the history of Texas criminal prosecution, was held in Amarillo on a change of venue.

Then Davis was arrested for his part in an alleged kill-for-hire plot involving the Fort Worth judge.

That case was moved from Fort Worth to Houston and into the court of State District Judge Wallace Moore, a relaxed, chain-smoking jurist who many attorneys contacted by The Associated Press consider one of the best on the bench in this, the state's largest city.

The chief defense attorney is Richard "Racehorse" Haynes, who can in a flash change character from a country bumbkin to a polished big city lawyer. Haynes and Moore have been friends for a long time. It was not evident in the pretrial hearings that went through five long, often boring, days.

Moore did grant the defense a one-week delay in the start of the trial, setting it back from a tentative start Monday to Oct. 23.

The judge said, "The defense's expert witness is out of the state for another trial and we will grant a motion for continuance until Oct. 23. We will make every effort to get the trial started that day."

During the pretrial hearings, the defense presented some 90 motions, some granted, some denied.

The major issue was the use of tape recordings of conversations between Davis and David McCrory, the chief witness for the prosecution.

The judge said the tapes could be admitted as evidence.

There was a parade of stars in the Davis case during the pretrial hearings, including Priscilla Davis and McCrory.

McCrory once worked for Davis and now says he was asked by his former boss to help kill Judge Eidson and at least 14 other persons.

The conversations between McCrory and Davis were taped with FBI equipment.

Mrs. Davis was on the witness stand for two days and once asked if she had ever attempted to contact anyone in an effort to have her husband killed, answered: "No, sir."

And, McCrory, in a loud and angry voice, denied he had ever told anyone he had been offered a sum of money to turn against his former boss.

McCrory said, "I didn't tell anyone such a thing and if you got someone to say I did, that is a lie."

Haynes and McCrory clashed frequently during the hearing, prompting a warning from Judge Moore, "I will have no more of this. Put it in the record that Mr. Haynes and this witness don't like each other."

Before the trial begins there are at least three sealed motions still to be considered by the judge.

He denied one sealed motion that sources said called for the jury to be sequestered during the trial.

He granted another that would prohibit the prosecution from mentioning to the jury a bond hearing held for Davis in Fort Worth in August. Davis was denied bond and now is being held in the Harris County jail.

During the pretrial hearings the defense hit hard at the credibility of tape recordings allegedly linking Davis to the kill-for-hire plot, and this is expected to be one of the main defense themes during the trial.

Haynes also has insisted "there has been an ongoing effort to make some sort of a case against Cullen Davis since he returned from Amarillo."

Judge Moore said he expected to rule in the next week on the pending sealed motions.

Spokesman convinced

TURIN, Italy (AP) — An American computer expert says he personally is convinced that the linen cloth revered by many as the Holy Shroud is indeed the 2,000-year-old burial cloth of Jesus.

Kenneth Stevenson, spokesman for a U.S.-Italian team that conducted five days of scientific tests on the cloth, said Friday it will be six to eight months before the results are known.

But he added: "I was sure before coming to Turin that the Holy Shroud was the burial garment of Christ. After tests here I have no reason for changing my mind."

The cloth bears the image of a bearded man with the wounds said to have been suffered by Christ in the crucifixion. Previous studies have ruled out the possibility that the image was painted.

The image shows the marks of scourging, thorn-like wounds on the head and a large wound in the chest — the same kind of torture the Gospel says Christ suffered. It also shows signs of nails in the wrists and feet.

"Many laboratory checks and a global consideration of tests must be done before issuing any final judgment," Stevenson said.

The 50-member team spent five days conducting photographic, electromagnetic, X-ray and other tests.

On Friday, the shroud was returned to the crypt where it has been kept for 400 years since being transferred here from Chambery, France, by its owners, the Savoys, the former Italian royal family.

The scientific team is attempting to determine how the image became imprinted on the linen and to estimate the age of the shroud.

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Student Council officers for Edison Freshman School this year are, from left, Claudia Saxe, secretary; Millicent Meroney, treasurer; Missy Larremore, vice-president, and David Slaughter, president. (Staff Photo)

UT to display Gutenberg Bible

AUSTIN, Texas (AP) — After spending centuries in a monastery and private libraries, the Gutenberg Bible owned by the University of Texas goes on public display today inside a terrorist-proof case.

University regents approved purchase of the $2.4 million twin-volume copy in June, with $1.4 million coming from a fund-raising organization, the Chancellor's Council.

"It's in superlative condition, relatively speaking," Dr. William Todd, English professor, told a press preview Friday. Todd examined the copy and recommended its purchase over two others.

Viewers will find one volume opened to reveal lavish illumination and the other closed to display intricate Old Testament figures stamped into the 16th Century brown calf binding.

Johann Gutenberg changed civilization when he invented movable type and printed an estimated 200 Bibles from 1450-1453 in Mainz, Germany.

Only 20 of the 48 copies remaining are complete. In the United States, other complete copies are at the Library of Congress, Harvard, Yale and the Pierpoint Morgan Library in New York.

The volumes rest in a steel, oak and travertine marble case in the Mitchener Galleries of the Harry Ransom Center. A San Antonio firm specializing in bullet-proof cars, International Security Group Inc., designed the $8,100 cover. Multiple-alarms, 24-hour guards and closed circuit cameras protect the irreplaceable book, which Todd said cannot be insured.

Costs of the case and alarm system were paid by private donors.

UT purchased the copy from the Carl and Lily Pforzheimer Foundation Inc. in New York. The earliest known owner was James Perry (1756-1821) who Todd said acquired it on the Continent.

"I'm not prepared to say," Todd said when asked if the volumes were stolen from a monastery.

"Those were troubled times. I can't imagine a monastery giving up a Bible. First was the French Revolution. And then Napoleon's army was rampaging through Europe," he said, leaving open the possibility of plundering troops taking the book.

The Latin text in Gothic print leaves no indication of which monastery used it. However, Todd is certain it was used in the monks' dining room, because of handwritten instructions on how to pronounce certain words.

"It was used somewhere where the readers were not sufficiently literate in Latin and had to be instructed in where the stress would fall," he said.

"We can assume it was not in one of the large, established monasteries or churches."

East Wadley section to be closed Monday

Part of Wadley Avenue will be closed starting Monday, according to George Medley, a traffic engineer with the city of Midland.

The section to be closed is between Barber Drive to east of the Midland Women's Club in Hogan Park, he said.

The city is paving this street and the road will be closed at least four days, according to Medley, to complete the work.

He suggested residents trying to get to Midland Women's Club go north on Big Spring Street to FM 868 and turn onto the road that goes by Cubs Stadium.

Residents going to Ranchland Hill Country Club should go out Golf Course Road until it intersects with Fairgrounds Road and continue north until they reach the country club.

Downtown revitalized in Amish country city

By JULES LOH
AP Special Correspondent

LANCASTER, Pa. (AP) — The heart of Amish country, where the horse-and-buggy days are with us yet, is not exactly the place you expect innovation to rear its novel head.

Yet this city of 55,000 has, with ingenuity that seems obvious in its simplicity, succeeded spectacularly in a task that has frustrated city after city across the land.

It has revitalized its downtown.

Five years ago, in Lancaster, as in other cities, the center of town was a dreary scene of boarded-up buildings, empty relics of the days before suburban shopping centers.

When the third of four large department stores closed its doors, more than half the downtown retailers fled in a stampede. Office workers followed. Then came the deserted streets and deteriorating sidewalks and broken street lights, the sad, familiar pattern of America in the '60s and '70s.

It seemed particularly sad in Lancaster, a lovely old city, once the capital of Pennsylvania — once, in fact, considered as a site for the national capital.

As a trading and manufacturing center it produced for a westering nation the storied Conestoga wagon. Today, its quaint brick streets echo to the horse-drawn wagons of the Amish, the "plain people," who long have questioned the benefits of progress.

Lancaster tried what other cities have tried, a big urban renewal project based on the accepted theory that if you build attractive shopping malls downtown, people will follow.

It didn't work.

So Lancaster reversed the conventional wisdom. It adopted the premise that if you bring people downtown, stores will follow.

It wasn't all that simple, of course. First, about a dozen of the city's business and professional leaders met, hired a consultant, and settled on a three-way course: develop tourism, renovate housing attractive to young couples and retired people, and, finally, restore confidence among businessmen — not retailers — that downtown is the best area for office buildings.

The city, meanwhile, set about restoring those brick streets, planting trees, spurcing up public facilities. Equally important, City Hall streamlined the tedious procedures contractors face with building inspectors and permit issuers.

Because no flashy new buildings went up all of a sudden, in the fashion of more typical renewal plans, many in Lancaster became dispirited if not skeptical.

Once the corner was turned, though — a new office building here, another there, a new law office, a bank — confidence snowballed.

Nurses set workshop

The Permian Basin Chapter of the American Association of Critical Care Nurses is planning a workshop on patient assessment for Tuesday, Patsy Hockman,chairman, announced.

The one-day course will begin at 7:30 a.m. in the Midland Room of the Midland National Bank.

Speakers and their topics include Dr. Brian D. Mohr, cardiovascular; Dr. Seamus E. Carmody, gastro-intestinal; Dr. Gregory W. Bartha, pulmonary; Celia Harris, RN, neurological; Teresa Guyton, RN, psychological aspects; Dr. Merrill C. Horne, pediatrics, and Dr. Thomas G. McIntosh, patient history.

Advance registrations may be mailed to Mrs. Hockman at P.O. Box 4263, Midland 79701, or persons may register at the workshop. Fees are $15 for non-AACN members and $10 for members.

Assisting Mrs. Hockman with the workshop are Joann Fee, Jan Pickett and Lucille Witt, all registered nurses.

Officers need green thumbs

LINCOLN, Neb. (AP)—Police here need an officer with a green thumb.

Among 160 recently recovered stolen items was a large lot of plants. Officers are having trouble finding the rightful owners.

Citizens were urged to reclaim their plants as soon as possible. Police say they can't keep the plants healthy very long because of inadequate facilities.

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For more information call 683-4651

We all know energy is less plentiful and more expensive than it used to be. Texas Electric is offering Operation Tighten-Up Workshops for people who are serious about saving energy and holding down monthly bills. These workshops are designed to inform concerned citizens of ways to use less energy and to make the most of what they do use.

Each workshop will give details on how to manage your energy use more efficiently, as well as information on sealing your home's energy leaks with insulation, weatherstripping, storm windows and caulking.

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Large-capacity dryer

Regular $279.95 259.95 electric Colors $10 extra

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Sale ends Oct. 21

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Kenmore dryers require a gas or electric connector, not included in the prices shown

Sale! Kenmore free-arm sewing head

1211

Kenmore Free arm sewing head

Regular price $128

Converts to flat-bed too. Dial to sew straight, zig-zag. Foot control.

1525

Regular $269.95

239.95

Made for easy sewing, this machine has 12 built-in dial to sew stitches, including blind hem, mending plus 6 stretch stitches. Built-in buttonholer.

Sale ends Oct. 21

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Free-arm sewing cabinet

Reg. price $79 Unassembled

2869

Big buy!
Sears Powermate® vacuum cleaner

Reg. price $89

Motor-driven brush for carpets. Cleaning tools.

2894

Sale ends Oct. 21

Save $20
Our Powermate® vacuum cleaner

Regular $159.95 $139.95

Revolving beater-brush adjusts to 4 rug-pile heights.

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Regular $89.95 74.95

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30 years fail to resolve problems of Czech gold

PRAGUE, Czechoslovakia (AP) — The United States has resolved post-World War II problems with most other East bloc nations but those it has with Czechoslovakia remain in deadlock.

Seven American presidents and 30 years after the 1948 Communist takeover in Czechoslovakia, Prague and Washington are still at odds over confiscated U.S. property and 18.4 tons of Czechoslovak gold.

"It is a waste of time, a waste of effort, a waste of money, a waste of everything," Foreign Minister Jaroslav Zantovsky, a former ambassador to Washington, says of past efforts to settle the disputes and get the gold back home.

The gold, worth about $118 million at current market prices, was Czechoslovakian government property taken from the country by the Germans during World War II.

It was found at Aachen after the war, in what is now West Germany, and placed under American, British and French control.

Only the Americans object to returning it, saying Prague first has to come up with a better settlement of postwar claims, including $72 million worth of nationalized property once owned by U.S. citizens.

There are other complications, including an $18 million steel mill ordered and paid for by the non-Communist government in Prague in 1947. After 1948, the Americans kept the money and sold the mill to Argentina.

Twice, negotiators for both governments have worked out agreements and initialed them. Neither agreement got through the U.S. Congress. Senate Finance Committee Chairman Russell B. Long, D-La., is credited with almost single-handedly torpedoing the last one, in 1977, telling the State Department to "leave your Santa Claus suits at home" before coming back with another.

Eleven months of negotiations went into the last agreement, and Prague's offer to pay off old claims at 42 cents to the dollar was higher than other agreements approved with Bulgaria, Poland and Hungary.

Since then, nothing has happened. The 1977 setback stunted development of cultural and scientific programs between the two countries and left Czechoslovakia's ailing economy without both the gold and a favored trading status with the United States.

Although the last agreement foundered largely on cash issues, the issue has since become snarled in East-West disagreements over human rights.

Thousands of Czechoslovaks are still suffering from or recovering from political and career upsets that came with the 1968 Warsaw Pact invasion to put an end to the liberal "Prague Spring" government of Alexander Dubcek. Government crackdowns on critics have made Czech dissidents a prime issue among Western politicians.

"The human rights debate, where the United States and Czechoslovakia are of clearly divergent viewpoints, has caused the area of bilateral relations to be largely shelved," says one U.S. diplomat who asked to remain anonymous.

But the same American says there is a chance that progress in Soviet-American arms limitations might help get things moving again.

The Czechoslovaks, meanwhile, say they've grown wary of even opening talks without some assurances that there wouldn't be another last-minute collapse.

"What we are asking for are guarantees and no one is giving us guarantees," says Foreign Minister Zantovsky.

"Nobody can guarantee Congress will do anything," says an U.S. embassy official, who also demanded anonymity. U.S. law requires one branch of government to negotiate such agreements and another to review the results.

Zantovsky says that in spite of the latest property agreement collapse, he wrote the Americans a note suggesting an approach to going ahead and working out an implementation agreement on the stalled issue of cultural and scientific exchanges.

"I do not have a reply," he said in an interview with The Associated Press. "The note is now three-fourths of a year old."

One effect is that instead of presenting its own cultural offerings in Czechoslovakia, the U.S. Embassy in Prague can do little more than offer help to commercially sponsored touring groups and entertainers.

Some exchanges take place, some don't, and the Embassy cultural officer, Bruce R. Koch, says there are no signs of new cooperation from up above the castle.

"They tell us they don't see how things can go any further without that implementation letter."

BIRTHS

MIDLAND MEMORIAL

Oct. 5, 1978

Mr. and Mrs. Melvin Paul Hammontree, 3607 W. Louisiana, a boy.

Oct. 6, 1978

Mr. and Mrs. Thomas William Ortloff, 2612 Goddard, a boy.

Mr. and Mrs. David Adam Krell, 900 South Johnston, a boy.

Mr. and Mrs. Brian David Hunter, 4331 Dengar Apt 210, a girl.

Mr. and Mrs. Henry George Norton Jr., 5006 Leisure, a boy.

Mr. and Mrs. Ronald Blake Meers, 4017 Roosevelt, a boy.

Oct. 7, 1978

Mr. and Mrs. Randall Bethel Graham, Stanton, a boy.

Mr. and Mrs. Manuel Natividad Yharte, 704 North Tilden, a boy.

Mr. and Mrs. Douglas J. Banta, 2600-B Mariana, a girl.

Oct. 8, 1978

Theresa Sue Davis, 805 South Weatherford, a boy.

Mr. and Mrs. Aaron Neal McCollum, 935 North Weatherford, a girl.

Mr. and Mrs. Jimmie Charles Gifford, 708 South "L" , a girl.

Mr. and Mrs. John Thurman Noland, 4519 Erie, a boy.

Oct. 9, 1978

Mr. and Mrs. Tommy Lee Johnson, 1910 Pecan, a boy.

Activist course

NEW YORK (AP) — Columbia University will be offering a course in community activism this fall, believed to be the first of its kind in New York City.

Cars first; now verse

HAMILTON, Ohio (AP) — The poet laureate of the Fisher Body plant is retiring at the end of the year and the question among the fender stampers and tool and die makers is who will write the commemorative poem.

"It's nothing. It's only a hobby," said 61-year-old Tommie Hyde of his hundreds of stanzas, written to fit any and all occasions over the years.

While his subjects range from farm life, coal mines and baseball to installment buying, his co-workers have been memorialized over his 30 years of service in the tool and die shop.

His home as a youth in Laurel County, Ky., has also been immortalized in his verse.

"My grandfather, Dot Hyde, came from North Carolina and swapped a rifle for 500 acres of land," he said. "He died there and my father has lived all his life there. To me, that'll always be home. I take pride in it ... can't get it out of my head."

Hyde reluctantly gave up working in coal mines during the Depression and came to Butler County, Ohio, from Kentucky.

"I loaded and shot, dynamited and did all the different jobs around the mine, but I liked the coal mines. I liked the work," Hyde said.

One of his later poems took a sports writer to task for criticizing the University of Kentucky. He never sent it. He put it in a drawer.

"Why send it? I don't think it would make any difference," he laughed.

Hyde said retirement would likely mean a proliferation of poetry.

RINGING THE BELL

Black leader must lead many to polls

With BOB TIEUEL

So You Want to Be a Black Leader? "Dear Bob—Since the survival of black folks in America is determined by those who sit on the Supreme Court and school boards, members of city council and the state legislature, the governors of the states and the president, only black people who should allow themselves to be called 'black leaders' are the ones who can get large numbers of registered voters to go to the polls and elect people who will get jobs for our unemployed and contracts for minority businesses, and fight hard for better schools, decent housing and good health care programs.

"Although an individual may be recognized as a good businessman, a good writer, and be an excellent student who makes all A's; until that individual can get large numbers of blacks to register and go to the polls and vote, he is not a leader. In other words, the real leaders of the black community are the people who can get black folks to participate in the political processes that will set them free and make them equal under the law.

"If we elect our own people, and vote for those who are sympathetic to our interests, we don't have to be filing law suits, in the streets demonstrating, nor jumping up and down on Mr. Charley's desk demanding jobs, tax dollars and government programs which are rightfully ours.

"Census data indicate there are about 15.4 million blacks of voting age but only some 48.7 said they voted in 1976. Surveys show that 60.0 percent of whites of voting age said they voted in that election. Want to be a black leader. Get em to the polls, we say.

Mississippi bellringer sources indicate that the success of Charles Evers, mayor of Fayette, Mis., and brother of Medgar Evers, slain civil rights leader, to mobilize black voters behind his banner could hold the key to the outcome of what may be the most unusual Senate campaigning in Mississippi in 100 years. Sen. James O. Eastland who had stayed on 13 years past the time when the Voting Rights Act of 1965 began lowering the curtain in Mississippi on a political epoch dominated by open, often virulent racism. As blacks started voting, white politicians stopped "niggering" their way into office.

Evers is running for the Senate as an independent in a three-way race that pits him against Democrat Maurice Dantin, the former mayor of Columbia, Miss., and Republican Thad Cochran, a three-term veteran in the U.S. House. A fourth candidate, independent Henry Kirksey, is a black social activist who has mounted only a nominal campaign.

Most observers give Evers only a remote chance of winning the election. Some believe he could siphon off enough traditonally Democratic black votes to tip the election to Cochran. An estimated one-third Mississippi's registered voters are black.

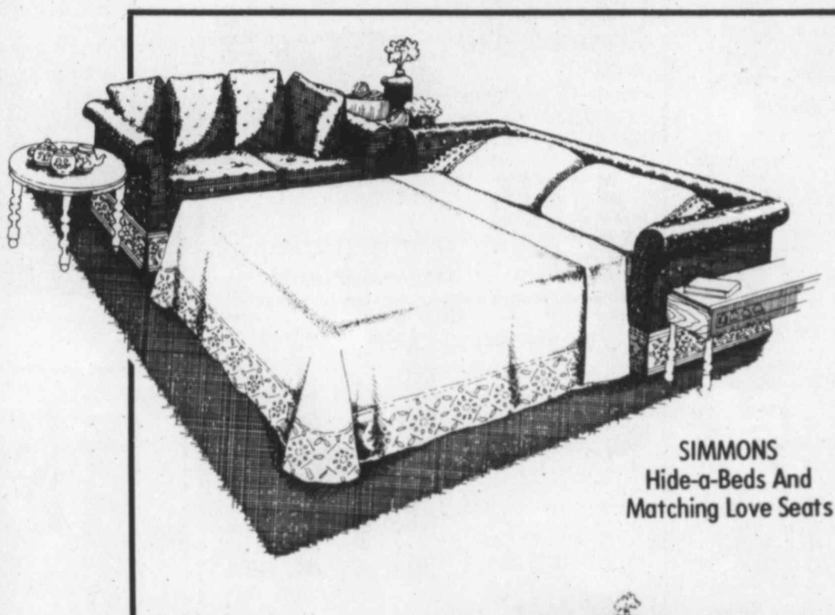
Some of my oldtime bellringers in Oklahoma remember the 30's. It was the time of 'Pretty Boy Floyd' and his gang that roamed the hills of Oklahoma. Bank robberies were popular, and Floyd told his gang not to attempt to rob the bank at Boley but they wouldn't listen. As a result, his integrated gang was left lying 'stone dead' on the streets. Chief of police at that time was the late Langston McCormick, who died recently.

So on Oct 8, Gov. David L. Boren of Oklahoma declared it Joseph Langston McCormick Day, citing his 46 years as a "policeman and state investigator" and helping to keep peace and promoting law and in order in Oklahoma." McCormick will be placed in the Southwest Black Hall of Fame in Pecos, friends of this column reported. A grand addition, we think.

ANNIVERSARY

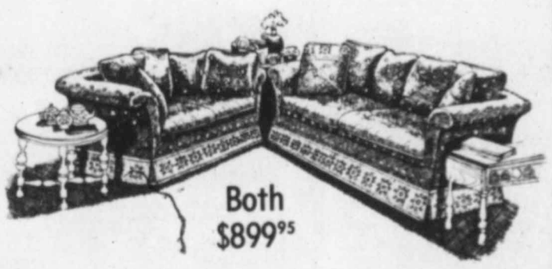
VALUE SHOW

SIMMONS HIDE-A-BEDS



SIMMONS Hide-a-Beds And Matching Love Seats

Deep tufted cushions, flair arms and small nostalgia print with coordinating border on its skirt give it the traditional look. The scatter pillow back gives it the extra comfort.



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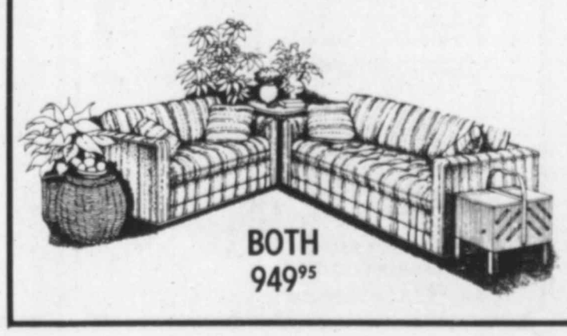

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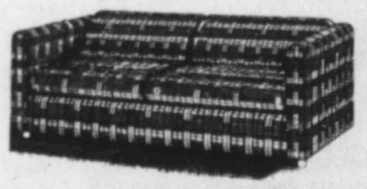

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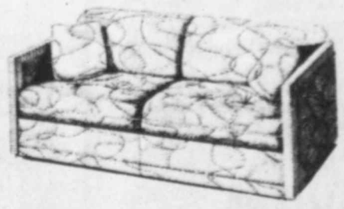

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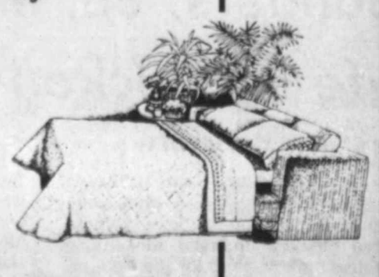

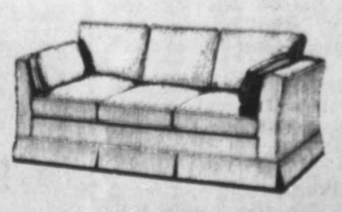

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Carter's FURNITURE

Anna Sandhu Ray talks to the media at Brushy Mountain Prison near Petros, Tenn., after she and James Earl Ray were married behind walls of the prison. In her hands is a tape recording of the service, which was conducted by the Rev. James Lawson, in background. (AP Laserphoto)

Alleged sub theft plot motive still vague

ST. LOUIS (AP) — An alleged plot to steal a U.S. Navy submarine may have been a front for a scheme to extort money from the underworld, says an attorney for one of three men arrested in the case.

Donald L. Wolff, attorney for Edward J. Mendenhall, 24, of Rochester, N.Y., made the suggestion in a preliminary hearing Friday before U.S. Magistrate David D. Noce.

Mendenhall and Kurtis J. Schmidt, 22, of Kansas City, who were arrested here by the FBI on Oct. 4, were ordered bound over for a federal grand jury investigation into the alleged scheme, which involved the theft of the USS Trepang from its mooring in New London, Conn., the killing of its crew and the delivery of the vessel to an unidentified buyer in the middle of the Atlantic Ocean.

A third man arrested in the case, James W. Cosgrove, 26, of Ovid, N.Y., waived a federal removal hearing Friday in Rochester, clearing the way for his return to St. Louis for trial.

The three were arrested after an informant told the FBI of the purported scheme and an undercover agent met with Cosgrove and Mendenhall. The undercover agent, the FBI said, posed as an agent for the prospective buyer.

Wolff said at Friday's hearing that he believes "the plan was designed to look good to get up-front money" from Charles E.N. Rosene of suburban Spanish Lake, Mo., the owner of a heating and air conditioning firm.

Rosene said Friday that he was the person who told the FBI of the alleged plot. He denied that he had any connection with organized crime.

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Free-lance artist, Ray wed in prison

By MATT YANCEY

PETROS, Tenn. (AP)—The 31-year-old bride kissed her new husband, James Earl Ray, watched guards escort him back to his jail cell and vowed they will be together outside prison within a year.

"I know we have a lot of adversity ahead of us, but now I'm ready to face it," Anna Sandhu Ray said after she and the convicted assassin of Dr. Martin Luther King Jr. were married Friday by a former associate of the slain civil rights leader.

"I've never had a day as happy in my life and I'm sure there will be happier days in the future," she told reporters outside the walls of Brushy Mountain Penitentiary, where Ray is serving 99 years for King's slaying in Memphis 10 years ago. "I love him very much."

The Rev. James Lawson, one of the founders of King's Southern Christian Leadership Conference, was the man who invited the civil rights leader to Memphis in 1968. He conducted the wedding in a small visitors room deep inside the isolated prison.

"Certainly Anna and James are going to overcome their adversity," Lawson said. "I'm more committed than ever to helping get James Earl Ray a new trial and convinced that one day he will walk out of this prison a free man."

Only four guests — Ray's attorney and his associate and the bride's brother and her best friend — were present at the 30-minute ceremony and brief reception featuring a wedding cake baked by Ray's cellmate.

It was the first marriage for Ray, 50, who has spent most of his life behind bars. His bride, a free-lance artist in Knoxville, was divorced five years ago after a three-year marriage.

Hours before the ceremony, Correction Commissioner C. Murray Henderson ordered Warden Stonney Lane to forbid any photographs of the wedding. Reporters were kept outside the prison's gates.

Lawson said Ray, however, asked him to make a tape recording of the wedding and he played it for reporters afterwards.

"The reason I am here is because I see it as a sign of grace," the Los Angeles minister said during the ceremony. "This signifies that the best of your lives is yet to be; the past is behind you."

The couple was allowed 10 minutes together under the watch of four guards after the rest of the wedding party left. Tennessee forbids conjugal visits.

The bride, smiling and occasionally wiping tears from her eyes, said both she and Ray were nervous during the ceremony. "I didn't know my right hand from my left. Rev. Lawson had to help me with that," she said of the ring exchange. "And, from his arms, I could feel him (Ray) trembling."

The couple met in October, 1977 while Ray was on trial for his escape from the prison the previous June. Mrs. Sandhu was hired by a Knoxville television station to draw courtroom sketches of the trial.

She used the money she was paid to buy Ray several books as a Christmas present and soon afterwards began making the 45-mile trip from Knoxville to the prison to visit him twice a week.

"When we first met, I guess I mainly felt sympathetic about his situation," she said. "But those feelings changed to love and concern. He's a lovable man. I know he's not capable of murder."

The bride said Ray never formally proposed. The plans for marriage, first announced two weeks ago, evolved as "a mutual understanding of our feelings," she said.

Ray pleaded guilty in 1969 to King's murder but later recanted and has been trying to win a new trial ever since.

Sanders, 88, enjoying life as chicken colonel

By GEORGE W. HACKETT

LOUISVILLE, Ky. (AP) — "Work keeps you young," says 88-year-old Col. Harland Sanders, the man whose fried chicken changed the eating habits of many. "I'm up about 5 a.m. each day and ready to go anywhere they want to send me."

He travels about 250,000 miles a year but still hasn't been able to visit all 48 countries where his product is sold.

"I'm 88 now and still going strong. My ambition is to stay on for another 12 years and then think about retiring," he said. "A man who sits around and does nothing will soon rust away."

He says he collects about $200,000 a year from the Kentucky Fried Chicken Corp. for advertising and promotional considerations, plus residuals from commercials.

"I'm not in it for the money. I've got all I need," he said, adding that his net worth is about $3.5 million. "The Lord has been good to me so I try to repay him by helping others."

A sixth-grade dropout, he doesn't remember how many scholarships he's created at various universities. "I've got six honorary doctor's degrees. Not bad for a boy who was educated in a one-room country school."

Born on a farm near Henryville, Ind., he learned to cook when he was 5 years old. His father had died and the youngster prepared meals for himself and a younger brother and sister while their mother worked.

"I cooked just like Mom did, and later, when I went into the restaurant business, I just kept on doing it the same way."

After working as a railroad fireman, salesman and a service station attendant, Sanders built a motel and restaurant at Corbin, Ky. It was here that he developed a process for quick-cooked fried chicken.

In the mid-1950s, after learning that a new interstate highway would miss his place by seven miles, Sanders sold out and went on the road with his pressure cooker to recruit franchisees.

"My wife Claudia and I slept in the car many nights while we waited for a restaurant to open so we could go into our sales pitch," he recalled.

By 1960, when Sanders moved his base of operations to Shelbyville, Ky., there were 400 franchisees. Today, there are more than 7,000.

Sanders sold the business in 1964 and the company, now a subsidiary of Heublein Inc., of Farmington, Conn., retained him to promote the product.

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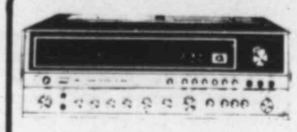
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DR. NEIL SOLOMON

Asbestos closely linked to cancer

DEAR DR. SOLOMON: Just what exactly is the story about asbestos? I heard something the other day about how men who worked in shipyards during World War II might now be getting lung cancer. My older brother spent 14 or 15 months in a shipyard then. Just what should he do?—Will H.

DEAR WILL: What he should do, if he hasn't already, is to tell a doctor of his work experience and get a thorough physical examination. It will probably include a chest X-ray and tests to see how his lungs are functioning. The doctor may advise additional tests depending on your brother's condition.

As you may know, asbestos is widely used in industrial products, and one of the main uses has been insulation in ships. The government estimates that something like 4.5 million workers were exposed to asbestos dust in American shipyards during the peak building programs of World War II.

At that time, the dangers of asbestos were not as well known as now. And several recent studies point up the risk of asbestos-related disease developing 30 or more years later. Hence the present concern.

One disease is asbestosis, a chronic lung ailment that produces shortness of breath and lessens the lungs' resistance to infection. Another is an unusual cancer called mesothelioma, which strikes at the thin membrane lining the chest and abdomen.

There is also a somewhat increased risk of lung cancer. But here the really great danger is the combination of asbestos exposure and smoking. Past or present asbestos workers who smoke may have up to 90 times the risk of lung cancer compared to nonsmokers who have not been exposed to asbestos. So anyone who has been exposed to asbestos dust should make it an absolute rule not to smoke.

Finally, some studies indicate a link between asbestos and some other cancers—of the esophagus (the tube leading to the stomach), the stomach, the colon and the rectum.

Symptoms that exposed persons should especially watch out for are shortness of breath, a cough or a change in cough habits, pain in the chest or abdomen, difficulty in swallowing, prolonged hoarseness, blood in the sputum and rapid weight loss.

Starting in the late 1960s, the government has imposed regulations on asbestos exposure in the workplace. So workers today should not run the same risks that their predecessors did. But they should of course take all the precautions detailed by the government, the company and the union.

Jobs where there is a significant exposure to asbestos include—besides shipyard work—construction and building (including renovation), automative brake and clutch installation and repair, the manufacture of a wide range of asbestos products and, of course, asbestos mining and processing.

You can get further information about the asbestos problem from the local chapter of the American Cancer Society or the American Lung Assn. You can write to Asbestos, National Cancer Institute, Bethesada, Md. 20014. But in any case, be sure your brother gets a thorough physical examination.

Y offers new course

Registration is under way at the Midland Central YMCA for a course entitled "The Y's Way to a Healthy Back," sponsored by the Mens and Women's Health Fitness Centers.

Y's Way to a Healthy Back is a course designed to show participants how to relieve their back problems through proper exercise and conditioning.

The six-week program was developed with assistance from Dr. Hans Kraus, an internationally known back specialist. Kraus treated the late President John F. Kennedy for his back problem.

The class progresses from mild stretch and relaxation exercises to more difficult muscle toning and flexibility exercises. Participants are trained throughout the course in muscle relaxation and tension control.

A doctor's permission is required in order for a person to participate in the class. This medical check prevents persons whose back problems would not be helped by exercise from participating.

The class will meet Tuesday and Thursday from 5:30 to 6:30 p.m. Tuesday through Nov. 28 in the Dora Roberts Room at the Midland Central YMCA. Cost is $30 for non-members, free to members. Call 682-2551 for enrollment information. Barbar Reynolds will be the instructor.

High, low points

FURNACE CREEK, Calif. (AP) — Death Valley has the lowest spot in the Western Hemisphere, 282 feet below sea level. It also has a mountain peak 11,049 feet high.

Safety urged in hunting, fishing

WASHINGTON (AP) — "Statistics prepared by the National Safety Council show that hundreds of fishermen and hunters injure themselves and others every season," says C. P. Dail, National Director of First Aid for the Red Cross.

"Many more die from gunshot wounds, drowning and other causes," Dail adds. "Unsafe conduct and unsafe habits are at the root of those accidents."

Here are some safety rules to follow:

Hunting:

—Know basic first aid and include a first-aid kit in your gear.

—Take along a compass, knife or hatchet, and matches.

—Leave word with someone where you plan to hunt and approximately when you will return.

—Never point at anything you don't intend to shoot.

—Wear bright colors when hunting and know the terrain. A fall can cost you your life if you are carrying a loaded gun.

—Treat every gun as if it were loaded.

—Be sure of the target. Never shoot at noises: wait until the whole animal or bird is visible.

—Know the correct way to carry a gun: under arm, shouldered, cradled, or with both hands. Make sure safety is on, finger outside trigger guard, muzzle in safe direction and under control.

—Keep the safety on or the chamber unloaded until ready to fire, and keep your finger out of the trigger guard.

—Check the bore through the breech end before loading to be sure it is clear of foreign objects. Repeat this check frequently while hunting.

—Be sure the action is open when handing the gun to another person, or when stopping to eat, chat or rest.

—Transport unloaded guns in cases.

—When duck hunting from a boat, two hunters should sit back to back. Never place a loaded gun on the bottom of the boat.

—Unload a gun before crossing a fence and pass the gun under first.

—Keep guns stored, unloaded and out of reach of children.

Fishing:

—Know how to swim, know basic first aid, carry a first aid kit in your gear.

—Listen to the weather forecast in order to dress comfortably and to take necessary precautions in event of bad weather forecasts.

—Take along needlenose pliers, wire cutters, and a pocket knife, and stow these as well as all fishing tackle in a covered container when not using.

—Leave word with someone where you plan to fish and approximately when you will return. Take a friend or two along for good company and safety.

—Avoid fishing in waters where there are swimmers, skin or scuba divers nearby.

—Do not go barefoot. Fish fins, broken glass, nails or other debris can injure feet. If fishing from a boat, do not wear fishing boots or waders.

—If wading, move cautiously to avoid step-offs into deep water or slipping and falling on hidden rock in fast-running water.

—Extracting the hook from a fish's mouth can be dangerous, since some varieties of fish have teeth that can lacerate a hand or fingers severely.

—Should a hook snag you, cut it from the line, put a dressing around the injured area and get to a doctor promptly.

IF YOU HAVE ANYTHING TO SELL YOU HAVE SOMETHING TO ADVERTISE. CALL 682-5311

CORRECTION

ON PAGE 20 OF SEARS DAY SECTION IN THIS NEWSPAPER OCT. 8 NO.18151 CHEST FREEZER IS DESCRIBED AS HAVING A LIFT OUT BASEKT, THIS FREEZER DOES NOT HAVE A BASKET. WE REGRET THIS ERROR.

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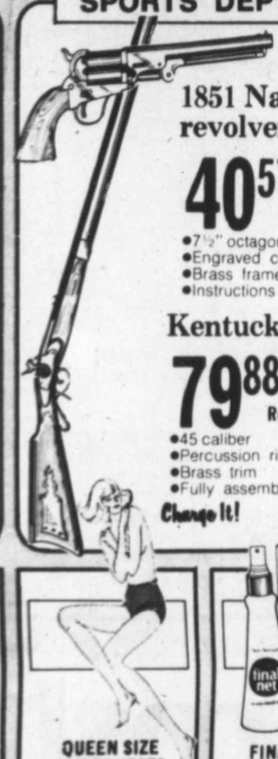

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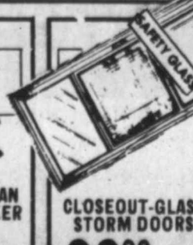

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Shah's gift bails out U.S. teen-agers

ROCHESTER, N.Y. (AP) — Four local teen-agers, short of cash for their rock band, wrote the Shah of Iran asking for help. So he bailed them out to the tune of $1,000, the kids say — and the Iranian Embassy in Washington says it's true.

The youngsters call their band the Penn Central and say they received a check from Shah Mohammed Reza Pahlavi last week.

In Washington, a spokeswoman in the Iranian Embassy said Friday night the Shah's government had indeed extended a $1,000 grant to the youngsters, but she did not know whether the Shah had himself signed the check.

Fourteen-year-old Michael Malone says it began this way:

"My teacher just said that the man was loaded with money. And so I said to my friends, 'Why don't we write to him, since he's got the money and we don't?"

Malone is the keyboard player in the band, whose other members are rhythm guitarist Tom Petronio, lead guitarist Mark Mazzo and drummer Frank LaPlacca. Malone had studied about the Shah's oil-rich Middle Eastern nation at the Bishop Kearney High School here last spring, and says he put the idea before the others, who approved.

In May, he says, he dispatched a letter to the Shah which read:

"I found out that you have a large sum of money. You see we are desperate. Flat broke. What I'm trying to ask you is, could you possibly loan, donate, give, or whatever you call it, some money. I don't know how or if we could ever repay you, but we will try if you like."

"We were skeptical at first," Malone says, but in June the band received a reply.

"Your letter arrived while the three younger children of the imperial majesty were on vacation," Malone says the Shah wrote. "They too are very interested in modern music. If you will provide me with a detailed list of what you will require, I will see that it can be arranged."

Malone said a list of electronic equipment including a desired selection of mixers, speakers, microphones, and amplifiers was forwarded — and on Wednesday, the $1,000 check arrived in the mail.

"He opened it up and he went pretty wild," recalled Michael's brother, Joe, 16. "He was jumping around."

Malone said the band sent the Shah a receipt — and a thank-you note.

"We haven't bought anything yet," Malone said. "We just deposited it. We can probably get everything we want for $1,000. It should be enough." He said the Shah has asked to be kept posted on the progress of the group, whose next scheduled appearance is Oct. 26.

Will the funds — and the publicity — boost Penn Central from its amateur status into the big leagues?

"We hope so," said Michael.

Hospital chief named

Austin Bureau

ABILENE-Dr. Grace Renee Ferguson was named Friday by the Texas Board of Mental Health and Mental Retardation as the new superintendent at the Big Spring State Hospital.

Dr. Ferguson, of New Orleans, La., will fill a post which has been vacant since August 1977, when Dr. Wallace C. Hunter resigned to re-enter private practice.

Adolph Supak, the assistant superintendent for administration, has been serving as acting superintendent at Big Spring since Dr. Hunter resigned.

Dr. Ferguson, 53, attended high school in Brigham City, Utah, and has received degrees from the University of Utah and the University of Utah School of Medicine. She attended the University of Texas Health Science Center at Houston, receiving her masters degree in public health in September 1976.

Lee Chorale concert set

The Lee High School Fall Concert will be at 8 p.m. Monday in the school auditorium.

The Lee Chorale, Lee Singers and the Choralees will perform at the concert. Origin, an eight-person ensemble, will also perform. The concert will be under the direction of Doug Browne.

Admission is $1 for adults, 50 cents for students. Proceeds go to pay for trips to choir competitions.

LEGAL NOTICES

ORDINANCE NO. 5379

AN ORDINANCE AMENDING CHAPTER ONE, TITLE XI, OF THE CITY CODE OF MIDLAND, TEXAS, BY PERMITTING THE PROPERTY DESCRIBED IN SECTION ONE HEREOF, WHICH IS PRESENTLY ZONED "1F-2", ONE-FAMILY DWELLING DISTRICT, TO BE USED AS A "PLANNED DISTRICT" FOR AN OFFICE CENTER; PROVIDING FOR SUCH USE TO BE SUBJECT TO CERTAIN SPECIAL CONDITIONS AND RESTRICTIONS AS SET OUT HEREIN; PROVIDING THAT THE PROPERTY SHALL BE IMPROVED ACCORDING TO THE SITE PLAN, ORDINANCES AND OTHER SPECIFICATIONS SET OUT AND REFERRED TO HEREIN; ADDING SAID PROPERTY TO THE FIRE DISTRICT; CONTAINING A CUMULATIVE CLAUSE; CONTAINING A SAVINGS AND SEVERABILITY CLAUSE; AND ORDERING PUBLICATION

1-3-1: GENERAL PENALTY; CONTINUING VIOLATIONS: Whenever in this Code or in any ordinance of the City an act is prohibited or is made or declared to be unlawful or an offense or a misdemeanor, or wherever in such Code or ordinance the doing of any act is required or the failure to do any act is declared to be unlawful, where no specific penalty is provided therefor, the violation of any such provision of this Code or any such ordinance shall be punished by a fine of not exceeding two hundred dollars ($200); provided, however, that if the minimum or maximum penalty provided by this Code for any such offense is less or greater than the maximum penalty provided for the same or similar offense under the Laws of the State, then the minimum or maximum penalty for violation as provided by State Statute shall be mimimum or maximum penalty under this Code. Each day any violation of this Code or of any ordinance shall continue shall constitute a separate offense.

Any person who shall aid, abet or assist in the violation of any provision of this Code or any other ordinance shall be deemed guilty of a misdemeanor and upon conviction shall be punished as provided in the preceding paragraph.

In any prosecution for the violation of any provision of this Code, it shall not be necessary for the complaint to negative or for the State to prove any exception contained in this Code concerning any prohibited act; provided, however, that any such exception made therein may be urged as a defense by the person charged by such complaint.

CITY OF MIDLAND
J.W. McCullough
City Secretary
(October 15, 1978)

ORDINANCE NO. 5378

AN ORDINANCE AMENDING CHAPTER 1, TITLE XI, OF THE CITY CODE OF MIDLAND, TEXAS, BY PERMITTING THE PROPERTY DESCRIBED HEREIN, WHICH IS PRESENTLY ZONED "MF-1", MULTIPLE-FAMILY DWELLING DISTRICT, TO BE USED AS A "PLANNED DISTRICT" FOR A HOUSING PROJECT; PROVIDING FOR SUCH TO BE SUBJECT TO CERTAIN SPECIAL CONDITIONS AND RESTRICTIONS AS SET OUT HEREIN; PROVIDING THAT THE PROPERTY SHALL BE IMPROVED ACCORDING TO THE SITE PLAN, ORDINANCES AND SPECIFICATIONS SET OUT OR REFERRED TO HEREIN; CONTAINING A CUMULATIVE CLAUSE; CONTAINING A SAVINGS AND SEVERABILITY CLAUSE; AND ORDERING PUBLICATION

1-3-1: GENERAL PENALTY; CONTINUING VIOLATIONS: Whenever in this Code or in any ordinance of the City an act is prohibited or is made or declared to be unlawful or an offense or a misdemeanor, or wherever in such Code or ordinance the doing of any act is required or the failure to do any act is declared to be unlawful, where no specific penalty is provided therefor, the violation of any such provision of this Code or any such ordinance shall be punished by a fine of not exceeding two hundred dollars ($200); provided, however, that if the minimum or maximum penalty provided by this Code for any such offense is less or greater than the maximum penalty provided for the same or similar offense under the Laws of the State, then the minimum or maximum penalty for violation as provided by State Statute shall be mimimum or maximum penalty under this Code. Each day any violation of this Code or of any ordinance shall continue shall constitute a separate offense.

Any person who shall aid, abet or assist in the violation of any provision of this Code or any other ordinance shall be deemed guilty of a misdemeanor and upon conviction shall be punished as provided in the preceding paragraph.

In any prosecution for the violation of any provision of this Code, it shall not be necessary for the complaint to negative or for the State to prove any exception contained in this Code concerning any prohibited act; provided, however, that any such exception made therein may be urged as a defense by the person charged by such complaint.

CITY OF MIDLAND
J.W. McCullough
City Secretary
(October 15, 1978)

ORDINANCE NO. 5377

AN ORDINANCE CHANGING THE ZONING USE CLASSIFICATION OF CERTAIN PROPERTY DESCRIBED IN SECTION ONE HEREOF, WHICH IS PRESENTLY ZONED "LR-2", LOCAL RETAIL DISTRICT, BY PERMITTING SAID PROPERTY TO BE USED UNDER A SPECIFIC USE PERMIT FOR THE SALE OF BEER AND WINE ONLY FOR ON-PREMISES CONSUMPTION; MAKING SAID PERMIT SUBJECT TO CERTAIN CONDITIONS AND RESTRICTIONS CONTAINED HEREIN; AND ORDERING PUBLICATION

1-3-1: GENERAL PENALTY; CONTINUING VIOLATIONS: Whenever in this Code or in any ordinance of the City an act is prohibited or is made or declared to be unlawful or an offense or a misdemeanor, or wherever in such Code or ordinance the doing of any act is required or the failure to do any act is declared to be unlawful, where no specific penalty is provided therefor, the violation of any such provision of this Code or any such ordinance shall be punished by a fine of not exceeding two hundred dollars ($200); provided, however, that if the minimum or maximum penalty provided by this Code for any such offense is less or greater than the maximum penalty provided for the same or similar offense under the Laws of the State, then the minimum or maximum penalty for violation as provided by State Statute shall be mimimum or maximum penalty under this Code. Each day any violation of this Code or of any ordinance shall continue shall constitute a separate offense.

Any person who shall aid, abet or assist in the violation of any provision of this Code or any other ordinance shall be deemed guilty of a misdemeanor and upon conviction shall be punished as provided in the preceding paragraph.

In any prosecution for the violation of any provision of this Code, it shall not be necessary for the complaint to negative or for the State to prove any exception contained in this Code concerning any prohibited act; provided, however, that any such exception made therein may be urged as a defense by the person charged by such complaint.

CITY OF MIDLAND
J.W. McCullough
City Secretary
(October 15, 1978)

ORDINANCE NO. 5387

AN ORDINANCE AMENDING CHAPTER ONE, TITLE XI, OF THE CITY CODE OF MIDLAND, TEXAS, BY PERMITTING THE PROPERTY DESCRIBED IN SECTION ONE HEREOF, WHICH IS PRESENTLY ZONED "LR-2", LOCAL RETAIL DISTRICT, TO BE USED AS A "PLANNED DISTRICT" FOR A TRANSITION DISTRICT; PROVIDING FOR SUCH USE TO BE SUBJECT TO CERTAIN SPECIAL CONDITIONS AND RESTRICTIONS AS SET OUT HEREIN; PROVIDING THAT THE PROPERTY SHALL BE IMPROVED ACCORDING TO CERTAIN ORDINANCES AND OTHER SPECIFICATIONS SET OUT AND REFERRED TO HEREIN; CONTAINING A CUMULATIVE CLAUSE; CONTAINING A SAVINGS AND SEVERABILITY CLAUSE; ORDERING PUBLICATION; AND DECLARING AN EMERGENCY

1-3-1: GENERAL PENALTY; CONTINUING VIOLATIONS: Whenever in this Code or in any ordinance of the City an act is prohibited or is made or declared to be unlawful or an offense or a misdemeanor, or wherever in such Code or ordinance the doing of any act is required or the failure to do any act is declared to be unlawful, where no specific penalty is provided therefor, the violation of any such provision of this Code or any such ordinance shall be punished by a fine of not exceeding two hundred dollars ($200); provided, however, that if the minimum or maximum penalty provided by this Code for any such offense is less or greater than the maximum penalty provided for the same or similar offense under the Laws of the State, then the minimum or maximum penalty for violation as provided by State Statute shall be mimimum or maximum penalty under this Code. Each day any violation of this Code or of any ordinance shall continue shall constitute a separate offense.

Any person who shall aid, abet or assist in the violation of any provision of this Code or any other ordinance shall be deemed guilty of a misdemeanor and upon conviction shall be punished as provided in the preceding paragraph.

In any prosecution for the violation of any provision of this Code, it shall not be necessary for the complaint to negative or for the State to prove any exception contained in this Code concerning any prohibited act; provided, however, that any such exception made therein may be urged as a defense by the person charged by such complaint.

CITY OF MIDLAND
J.W. McCullough
City Secretary
(October 15, 1978)

ORDINANCE NO. 5383

AN ORDINANCE AMENDING TITLE VIII, "HEALTH", CHAPTER 7, "GARBAGE, TRASH AND RUBBISH", SECTION 5, "WEIGHT OF RECEPTACLES," SO AS TO REDEFINE MAXIMUM WEIGHTS FOR RECEPTACLES AND MECHANICALLY LOADED CONTAINERS AND ESTABLISHING CHARGES FOR OVERLOADING; AMENDING SECTION 8, "CHARGES FOR COLLECTION AND DISPOSAL", AND SECTION 9, "COLLECTION FROM COMMERCIAL CUSTOMERS", SO AS TO MODIFY AND ADJUST THE RATES AND CHARGES CONTAINED THEREIN; CONTAINING A CUMULATIVE CLAUSE; CONTAINING A SAVINGS AND SEVERABILITY CLAUSE; AND ORDERING PUBLICATION

1-3-1: GENERAL PENALTY; CONTINUING VIOLATIONS: Whenever in this Code or in any ordinance of the City an act is prohibited or is made or declared to be unlawful or an offense or a misdemeanor, or wherever in such Code or ordinance the doing of any act is required or the failure to do any act is declared to be unlawful, where no specific penalty is provided therefor, the violation of any such provision of this Code or any such ordinance shall be punished by a fine of not exceeding two hundred dollars ($200); provided, however, that if the minimum or maximum penalty provided by this Code for any such offense is less or greater than the maximum penalty provided for the same or similar offense under the Laws of the State, then the minimum or maximum penalty for violation as provided by State Statute shall be mimimum or maximum penalty under this Code. Each day any violation of this Code or of any ordinance shall continue shall constitute a separate offense.

Any person who shall aid, abet or assist in the violation of any provision of this Code or any other ordinance shall be deemed guilty of a misdemeanor and upon conviction shall be punished as provided in the preceding paragraph.

In any prosecution for the violation of any provision of this Code, it shall not be necessary for the complaint to negative or for the State to prove any exception contained in this Code concerning any prohibited act; provided, however, that any such exception made therein may be urged as a defense by the person charged by such complaint.

CITY OF MIDLAND
J.W. McCullough
City Secretary
(October 15, 1978)

ORDINANCE NO. 5380

AN ORDINANCE CHANGING THE ZONE USE CLASSIFICATION OF CERTAIN PROPERTY DESCRIBED IN SECTION ONE HEREOF, A PORTION OF WHICH IS PRESENTLY ZONED "1F-1" AND "O" WITH A SPECIFIC USE PERMIT FOR A MOBILE HOME PARK AND A PORTION OF WHICH IS PRESENTLY ZONED "1F-1", BY PERMITTING ALL OF SAID PROPERTY TO BE USED UNDER A SPECIFIC USE PERMIT FOR A MOBILE HOME PARK; MAKING SAID PERMIT SUBJECT TO CERTAIN CONDITIONS AND RESTRICTIONS; CONTAINING A CUMULATIVE CLAUSE; AND EXPRESSLY REPEALING ORDINANCE NO. 4741; CONTAINING A SAVINGS AND SEVERABILITY CLAUSE; AND ORDERING PUBLICATION

1-3-1: GENERAL PENALTY; CONTINUING VIOLATIONS: Whenever in this Code or in any ordinance of the City an act is prohibited or is made or declared to be unlawful or an offense or a misdemeanor, or wherever in such Code or ordinance the doing of any act is required or the failure to do any act is declared to be unlawful, where no specific penalty is provided therefor, the violation of any such provision of this Code or any such ordinance shall be punished by a fine of not exceeding two hundred dollars ($200); provided, however, that if the minimum or maximum penalty provided by this Code for any such offense is less or greater than the maximum penalty provided for the same or similar offense under the Laws of the State, then the minimum or maximum penalty for violation as provided by State Statute shall be mimimum or maximum penalty under this Code. Each day any violation of this Code or of any ordinance shall continue shall constitute a separate offense.

Any person who shall aid, abet or assist in the violation of any provision of this Code or any other ordinance shall be deemed guilty of a misdemeanor and upon conviction shall be punished as provided in the preceding paragraph.

In any prosecution for the violation of any provision of this Code, it shall not be necessary for the complaint to negative or for the State to prove any exception contained in this Code concerning any prohibited act; provided, however, that any such exception made therein may be urged as a defense by the person charged by such complaint.

CITY OF MIDLAND
J.W. McCullough
City Secretary
(October 15, 1978)

IN THE MATTER OF COUNTY FINANCES IN THE HANDS OF DEE THOMPSON TREASURER OF MIDLAND COUNTY, TEXAS

COMMISIONER'S COURT
MIDLAND COUNTY, TEXAS
IN REGULAR MONTHLY SESSION,
3rd QUARTER TERM, 1978

WE THE UNDERSIGNED, As County Commissioners within and for said Midland County, the Hon. John Blake Hansen, County Judge of said Midland County, constituting the entire Commissioners' Court of said County, and each one of us, do hereby certify that on this, the 9th day of October A.D. 1978, at a regular Quarterly term of our said Court, we have compared and examined the report of Dee Thompson Tresurer of Midland County, Texas, for the period beginning on the 1st day of July A.D. 1978, and ending on the 30th day of September A.D. 1978, and finding the same correct have caused an order to be entered upon the Minutes of County Finances of the Commissioners' Court of Midland County, stating the approval of said Treasurer's Report by our said Court, which said order recites separately the amount received and paid out of each fund by said County Treasurer since the last report to this Court, and for and during the time covered by the present report and the balance of each fund remaining in said Treasurer's hands on the said 30th day of September A.D. 1978 and have ordered the proper credits to be made in the accounts of the said County Treasurer, in accordance with said order as required by Law and provided for in the Revised Statutes of the State of Texas.

And we, and each of us, further certify that we have actually and fully inspected all the actual assets and cash balances in hands of the said Treasurer belonging to Midland County at the close of the examination of said Treasurer's Report, on this the 9th day of October A.D. 1978, and find the same to be as follows, to-wit:

9/30/78 STATEMENT OF BALANCES AMOUNT

Balance to credit of the following Funds on this day:

Special Revenue Fund	75,703.75
General Fund	131,097.37
Community Developement Fund	.05
Payroll Fund	4,415.58
Revenue Sharing Fund	11,988.56
Courthouse & Jail Sinking Fund	36.09
Adult Probation Fund	17,919.02
Total Cash Balance on hand	$241,160.42

ASSETS

In addition to the actual cash balance on preceding sheet, we find the following assets belonging to the said County and to the credit of the following funds, which is also in the possession and custody of the said Treasurer, to wit: September 30, 1978

CERTIFICATES OF DEPOSIT:	
Special Revenue	$466,000.00
General	1,700,000.00
Revenue Sharing	665,000.00
Courthouse & Jail Sinking	170,302.20
CASH BELONGING TO GENERAL FUND	
Tax Collector's fund	1,000.00
Sheriff's Revolving Fund	500.00
J.P.'s Change Fund	200.00
District Clerk's Change Fund	100.00
County Clerk's Change Fund	50.00
Jail Petty Cash Fund	50.00
	$3,003,202.20

BONDED INDEBTEDNESS

The bonded indebtedness of the said County we find to be as follows, to-wit: 9-30-1978

Courthouse & Jail Improvements Bonds	$1,290.00.00

WITNESS OUR HANDS, Officially, this 9th day of October A.D. 1978

s/John Blake Hansen
County Judge
s/Durward O. Wright
Commissioner Precinct No. 1
s/Charles R. Welch
Commissioner Precinct No. 2
s/Jack E. Leonard
Commissioner Precinct No. 3
s/Winfree L. Brown
Commissioner Precinct No. 4

SWORN TO AND SUBSCRIBED BEFORE ME, By John Blake Hansen County Judge, and Durward O. Wright and Charles R. Welch and Jack E. Leonard and Winfree L. Brown County Commissioners of said Midland County, each respectively, on this, the 9th day of October A.D. 1978.

s/Rosenelle Cherry
County Clerk, Midland County

FILED FOR RECORD 10th day of October A.D. 1978, at 10:00 o'clock A.M. and recorded 10th day of October A.D. 1978

s/Rosenelle Cherry
County Clerk

Classified Advertising Dial 682-6222

OFFICE HOURS:
Week Days. . . 8 a.m. to 5 p.m.

Closed Saturdays

Corrections and cancellations may be made Saturday morning between 8 am and 10 am only.

AFTER AD HAS BEEN PLACED, IT MUST RUN ONE DAY.

Please check your ad the first day it appears. The Reporter-Telegram is responsible only for the first day for error that nullifies the value of the ad.

COPY CHANGES
3 p.m. day prior to publication except 3 p.m. Friday for Sunday editions; 10 a.m. Saturday for Monday editions.

WORD AD DEADLINES:
5:00 p.m. Friday for Sunday
5:00 p.m. Friday for Monday
4:00 p.m. Monday for Tuesday
4:00 p.m. Tuesday for Wednesday
4:00 p.m. Wednesday for Thursday
4:00 p.m. Thursday for Friday
4:00 p.m. Friday for Saturday

SPACE AD DEADLINES:
5:00 p.m. Friday for Sunday
5:00 p.m. Friday for Monday
3:00 p.m. Monday for Tuesday
3:00 p.m. Tuesday for Wednesday
3:00 p.m. Wednesday for Thursday
3:00 p.m. Thursday for Friday
10:00 a.m. Friday for Saturday

DISPLAY DEADLINES:
12:00 a.m. Thursday for Sunday
12:00 a.m. Thursday for Monday
4:00 p.m. Friday for Tuesday
12:00 a.m. Monday for Wednesday
12:00 a.m. Tuesday for Thursday
12:00 a.m. Wednesday for Friday
3:00 p.m. Wednesday for Saturday

SAME DEADLINES APPLY FOR CANCELLATIONS

1 LODGE NOTICES
2 PUBLIC NOTICE
3 PERSONALS

4 CARD OF THANKS
5 LOST AND FOUND
6 MONEY LOANS-WANTED
7 SCHOOLS-INSTRUCTION
10 WHO'S WHO
15 HELP WANTED
16 SALES-AGENTS
17 SITUATIONS WANTED
18 CHILD CARE SERVICE
19 BUSINESS OPPORTUNITIES
30 AUTOMOBILES
31 TRUCKS AND TRACTORS
32 4-WHEEL DR. VEHICLES
33 MOTORCYCLES
34 AIRPLANES
35 BOATS AND MOTORS
36 RECREATIONAL VEHICLES
37 AUTO SERVICE & ACCESSORIES
39 AUCTIONS
40 GARAGE SALES
41 MISCELLANEOUS
42 HOUSEHOLD GOODS
43 SPORTINGS GOODS
44 ANTIQUES AND ART
45 MUSICAL INSTRUMENTS
46 CAMERAS AND SUPPLIES
47 GOOD THINGS TO EAT
48 FROZEN FOOD LOCKERS
49 FIREWOOD
50 OFFICE SUPPLIES
51 STORE, SHOP, CAFE EQUIPMENT
52 AIR CONDITIONING & HEATING
53 BUILDING MATERIALS
54 PORTABLE BUILDINGS
55 MACHINERY & TOOLS
56 OILFIELD SUPPLIES
57 FARM EQUIPMENT
58 LIVESTOCK-POULTRY
59 PETS
60 APARTMENTS FURNISHED
61 APARTMENTS UNFURNISHED
62 APTS. FURN, UNFURN
63 HOUSES FURNISHED
64 HOUSES UNFURNISHED
65 HOUSES FURN, UNFURN
66 BEDROOMS
67 MOBILE HOMES FOR RENT
68 MOBILE HOMES SPACE FOR RENT
69 BUSINESS PROPERTY, OFFICE WAREHOUSE SPACE FOR RENT
70 RECREATION & RESORT RENTALS
71 HUNTING & FISHING LEASES
72 OIL AND LAND LEASES
78 MOBILE HOMES FOR SALE
79 OPEN HOUSE
80 HOUSES FOR SALE
81 SUBURBAN HOMES
82 OUT OF TOWN REALTY
83 LOTS & ACREAGE
84 FARMS & RANCHES
85 RESORT PROPERTY SALES
86 BUSINESS PROPERTY SALES
87 INVESTMENT PROPERTY

1 Lodge Notices

Called meeting Keystone Chapter No. 172 for degree work. 7:00 PM, 10-31-78. Stated meetings of the Chapter & Council the 1st Tuesday of each month. 7:30 PM. Vern Adams H. P., Poin Meyers. T.I.M., George Medley, Sec. REC., All York Rite Masons welcome.

Acacia Lodge No. 1414, A.F.&A.M., 1000 Upland. Stated meeting Tuesday October 24th, 7:30 PM, open meeting 8:00 PM. Program & refreshments. Families and friends invited. H. H. Miller, W. M., Al Talbot Secretary.

Midland Lodge #623 A.F. & A.M., 1600 W. Wall, 682-3292. Fellowcraft Degree Monday, October 16 at 7:30 PM. Regular Stated meeting October 26 at 7:30 PM. School of instruction every Wednesday night at 7 PM. Bobby Z. Ellis W. M. George Medley, Secretary.

Midland Commandery #84. K. T. Stated Conclaved third Tuesdays. Paul Hicks, Commander. George Medley, Recorder.

3 Personals

FIDDLERS WANTED
--FOR--
Dellwood Mall Fiddlers Contest
SATURDAY, OCTOBER 21
Registration 10 AM to 12 Noon
CONTEST BEGINS AT 1 PM
Need More Information?
CALL 694-6869

MARY KAY COSMETICS
Sybil Wallace, 684-5464
Jean Watson, 694-1095

SHAKLEE PRODUCTS
Yes! We have all vitamins, cleaning products and Lovue Cosmetics, we also give free facials for cosmetics. Monday through Saturday. Please call before you come, 694-6312 or 694-3521. Roy & Eunice at 1012 Denton.

NEED prayer? There are people willing to pray. Call 682-9649.

DRINKING problem in your life? Call Midland Council on Alcoholism, 682-4721. 24 hour service.

CASH FOR COINS
Silver to 1964—$3.40 per $1.00
Half $ 1965—65¢ each
All other Gold coins & rings.
653-1611
San Angelo

DIVORCE
$150 plus court fees
Most uncontested cases
JIM T. OSBORN
Attorney & Counselor at Law
(915) 563-3206

PAVED parking downtown for rent. Call 683-5253. $15 a month.

PAM Holcomb Reither formerly of Curl & Swirl Beauty Shop, now relocated in Lena B's Beauty Salon, 4311 W. Illinois. Looking forward to seeing new and old customers.

BRING BACK YOUR LOVER
ESP HOROSCOPE
Help by phone or write on all problems of life. Happiness & Success Guaranteed. Sister Rose, (817) 535-5276, 1633 Oakland Boulevard. Fort Worth, Texas 76103.

THREE cemetery lots located in The Garden of Prayer at Midland Resthaven Memorial Park. Below current prices. 362-2809, Odessa.

FOR Sale: Spaces in developed "Devotion Garden", Resthaven Memorial Park, Midland. Phone 1-806-872-7898, Lamesa, Texas.

I will no longer be responsible for any debts incurred other than by myself. Buddy Jonhston, B and B Plumbing.

TWO choice lots, Garden of Devotion, Resthaven Memorial Park. 697-5055.

AM looking for an EST Graduate in Midland-Odessa area. Karla, 684-6301, 694-2942.

U.S. stamps for sale. Have many early mint U.S., singles, plates, sheets. Columbians, Airmails, etc. Call 682-0305.

FOR help with an unwed pregnancy, call Edna Gladney Home, Ft. Worth Texas. 1-800-792-1104.

SPECIALIZING in children's hair shaping. Gilded Cage Beauty Salon. 694-8742.

4 Card of Thanks

THANKS TO ALL OUR FRIENDS
For the food, flowers, cards and kindness during the loss of our loved one. Husband, father, grandfather, great grandfather and great great grandfather.
THE TRANTHAM FAMILIES

WE ARE TRULY GRATEFUL
to the good friends who did so much for us during our recent sorrow. May we take this means of saying thank you for the many comforting expressions of your firendship and affection.
From The GUNN FAMILY

We Extend Deep Appreciation
to all our friends who did so much for us during our recent bereavement. The many beautiful expressions of sympathy were most helpful.
THE BUSTILLOS FAMILY

5 Lost & Found

REWARD
Lost, 2 dogs. One Brittany Spaniel, white with orange spots, about 15 months old, answers to "Pumpkin". One mixed breed, white with orange spots and curly tail, answers to "Pokey". Daryl Faris, 2404 Gulf. 682-2228 or 683-5101.

REWARD for return of male Doberman Pinscher (black, brown around eyes, wearing red collar, tags), taken from garage. Child's pet. 682-0884 after 5.

LOST on 10-7, 6 month male Siamese kitten in 4500 block Leddy. Wearing blue collar, brass bell and California tags. Reward! 682-6282, 694-0418. Pearce.

LOST 2 small dogs, 1 tan pug and 1 black Wirehaired. Call 694-6435 afternoons.

PLEASE help me find KASPER. White Siberian Husky, with big black collar. Has freckles on nose. Lost in the vicinity of "A", and Michigan street. Any information helpful. Call Rhonda days 682-6222, nights and weekends 682-7532.

STRAYED from 2507 Princeton on October 12. Small male Poodle puppy. White with dark areas around eyes. No collar. Reward. 683-1783.

LOST 9-29-78, vicinity Todd Drive, young male mixed breed dog, wearing red collar. (Has beagle coloring-predominately white with black and brown markings). Reward for any information. Please call 682-0404.

LOST 6 year old black female Poodle. Red and white collars. Vicinity Dellwood Plaza. Tag number 3059. 697-5534 or 682-7925, ext. 42. Reward.

LOST Keyring with 9 keys. Shell Pectin. Reward. 694-3472 after 5.

the cost of knowing is nothing compared to the cost of not knowing

Only a few cents a day buys your newspaper. Next to nothing.* But the information received is of incalculable value. It can make the difference between intelligent freedom or mindless subjugation.

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2 Public Notices | 2 Public Notices | 2 Public Notices | 2 Public Notices | 2 Public Notices | 2 Public Notices

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J. R. McOSCAR

CONCRETE WORK

PATIOS, driveways, slabs or any type concrete work. Brick and block, and general repair work. 684-6006.

CONCRETE construction and repairs. Curbs, drives, floors, foundations, walks, etc. Serving Midland 38 years. Fully insured for your protection. Helbert & Helbert Contractors. 683-3238.

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CARLTON'S Backhoe Service, 697-1994. All types backhoe work done, septic systems, oil field work. Backhoe equipped with hammer. Insured.

HORIZON Excavation. All types dirt work. Fill dirt, caliche. Lots cleaned and leveled. Dump truck service. Free estimates. 683-7622.

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QUALITY drafting will sell that prospect. Let Pruitt do it. Tom Pruitt Drafting Service. 682-1164.

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DUMP
INERT TRASH
$2 MINIMUM

LIGHT hauling, trash, trees, etc. Will trim and remove trees. 683-5808.

LIGHT hauling, trash hauling or something to be moved. Call 682-3567.

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HOME REPAIRS, & REMODELING

C. GOSS BUILDING & REPAIRS
Add-ons, home repairs, or commercial. Specializing in fireplaces. There is no job too small. Free estimates.
694-8662

MARVIN WOOD CONSTRUCTION
17 years of Quality Building
New Construction - Remodeling
Painting and acoustic ceilings
694-7397
after 5 PM

CALL the Custom Carpenters for new construction, remodeling, repair, painting, cabinetry and specialty shop items. 682-2123.

THE House Doctor. General repairs, remodeling, painting. Free estimates. Bonded. Phone 682-5569. In Midland 45 years.

INSULATION

INSULATE NOW BEFORE WINTER ARRIVES
Midland Insulation Co. now has blown-in type rockwool or fiberglass insulation. Also, batts & pouring wool for the do-it-yourselfers.
Call 694-7673 for Free Estimates

JANITORIAL SERVICE

WINDOWS LARGE, WINDOWS SMALL,
GIVE ANNE BEAVER A CALL
682-3524

K&K SERVICES, INC.
All commercial cleaning services. No building too large or too small. We can do them all. For free estimates, call Gene Davidson, 563-3398.

O & L Janitorial Service. Residential, commercial buildings, contract cleaning. Specializing in Mexican tile, sealing, staining and polishing. References furnished. Call 684-7280.

GRANDMA IRENE'S CLEANING SERVICE
We clean the old fashioned way, like grandma used to clean. Homes, apartments and small commercials. We do windows. Call Irene G. Crevier.
683-8951
Bonded Insured

LAWN & GARDEN SERVICE

LAWN & GARDEN SERVICE
Mowing, all kinds tree trimming (large & small trees), flower beds, edging, bed trees.
Call RUDY At 694-8678
Day or Night

JK&L Roto-tilling Service. Specializing in complete lawn and garden service. Free estimates. 684-7979.

TREE Service. Shrub, pruning, shearing experienced lawn service, spraying. 682-4230 or 684-4015.

MOW, edge and trim. Flower beds cleaned, tree pruning, alleys cleaned. Trees removed. Cooper, 684-4698, 684-9907.

LAWN MOWER REPAIR

LAWN mower and small engine tune-up and repair. Blades sharpened. Pickup and delivery. 683-7886.

MASONRY WORK

QUALITY masonry work. Brick and all types. 5 years experience. Free estimates. Grady Alford, 683-6770. Specialty: fireplace.

MOBILE HOME MOVING

MOBILE Home moving. Local or long distance. Blocking, unblocking, anchoring. Midland, 683-7151.

PAINTING & PAPER HANGING

EXCELLENT references. Exceptional quality. Free estimates. Free advise. Steve Luttrell, 682-7189.

HOUSE painting, inside or out. Vinyl paper and paneling. Free estimates. Call 694-5375.

RESIDENTIAL, commercial painting. 25 years experience. Free estimates. Call 694-2965.

MISCELLANEOUS SERVICE

WHITE'S GRADING & EXCAVATING
Asphalt paving, parking areas & driveways. Caliche.
FREE ESTIMATES
684-8983

PAINTING & PAPER HANGING

Paint 'n Paper Professionals
free Estimates
CALL ANYTIME
684-8946

WALLPAPERING
THE PAPER TIGERS
563-0868
Free Estimates
Satisfaction Guaranteed
GENE REDD
PAINTING—DECORATING
INTERIOR EXTERIOR RESIDENTIAL COMMERCIAL
Phone 697-3984

JOHNSON'S Paint Service. Inside and out. 26 years experience. No drinking or smoking. For estimates, 694-3780.

HOUSE painting. Commercial. Inside and out, local, references, free estimates. Call anytime, 683-0905.

PAINTING and repair work. Large or small jobs. 25 years in Midland. Work is guaranteed. Free estimates. Call E.W. Barr, 683-1506.

B & B Painting and Construction. Call Bill or Steve Baker. 682-1928.

BROWN'S Painting, exterior, interior. Fence building. Large and small jobs. Free estimates. 683-8216 after 6 and weekends.

INTERIOR and exterior painting, minor repairs. Free estimates. Call Fred Johnson, 694-3748, day or night.

EARLY retired company painter, 27 years experience. Offices, houses, wall repairs, sheetrock finishing. 694-8493, Nelson.

PAINTING and papering. Acoustic ceilings, tape and bedding. Call Claude Norris at 684-6316.

PLUMBING

BUDDY'S Plumbing. Buddy Johnston, Owner. Former co-owner of B and B Plumbing. 684-4375.

ROOFING

E. D. Culp Roofing. All types of roof and repairs. Free estimates. Work guaranteed. 684-8435.

ROOFING
Will repair your old roof or build a new one. Reasonable and guaranteed. Bonded.
Call— JAMES
682-6151 OR 683-6340

TRACTOR WORK

WILL shred grass, weeds and small mesquite. Also discing. Call 684-6706.

YARD and garden plowing or discing, shredding and blade work. 3902 Anetta or call 694-2972, 682-6424.

UPHOLSTERY

UPHOLSTERY and drapes. Reasonable. Free estimates. Work guaranteed. Call 694-8073.

WATER WELL SERVICE

WATER wells for Midland since 1953. Loftis Company. 682-6343.

5 Lost & Found

LOST FAMILY PET
Vicinity of Walnut Lane, 2 month old black Doberman wearing tan collar. Any information please call—683-4295.

LOST Hereford saddle on Andrews Hwy. Near High Sky Girls Ranch. 697-2995.

6 Money Loans, Wanted

TOP $dollars$ for diamonds, old gold, estate pieces, strictly confidential. Call 683-3822.

FINANCING AVAILABLE
Long term farm, ranch and commercial loans. Also refinancing.
LUBBOCK MORTAGE CO., INC
Metro Tower 1220 Broadway
Lubbock, Txas 762-0523

7 Schools, Instruction

HAVE YOU EVER WANTED TO GO TO BEAUTY SCHOOL...But Thought You Couldn't Afford It?
You may quality for one, two or all three student financial aid plans offered by ALADDIN BEAUTY COLLEGES. Come in or call today. 900-B South Midkiff. 694-6616.

7 Schools, Instruction

JOIN THE EMPLOYABLES
WE can teach you
OFFICE MACHINES in 3 months (IBM Keypunch included)
STENOGRAPHIC ..... in 4 months
BOOKKEEPING ..... in 5 months
SECRETARIAL ..... in 6 months
ACCOUNTING ..... in 6 months
Placement assistance provided
VETERAN APPROVED COURSES
If you need financial assistance we have Federal Funds available from the National Direct Student Loan, Basic Educational Grant, College Work Study and Federally Insured Student Loan. For complete details call, write or visit:
AMERICAN COMMERCIAL COLLEGE
"Certified by Texas Education Agency"
3306 Andrews Highway
697-4146

Classified Advertising 682-6222

7 Schools, Instruction

REAL ESTATE SCHOOL
Beginning Oct. 21, 1978
Open to General Public
-in-
San Angelo, Texas
- Real Estate Commission approved courses that qualify you to take license examination.
- Weekend and night courses-no need to miss work.
- Dynamic Interesting Instructors.
- Advanced Courses if you are working toward Broker's license.
- Call now so you can still qualify before the law changes. Beginning January 1st, 1979 180 hours of classroom instruction will be required. HURRY!

SOUTHWEST COLLEGE OF REAL ESTATE
P.O. Box 3288
San Angelo, Texas 76901
Name _____
Address _____
City _____
Phone _____
Gentlemen: Please send me complete information at no obligation.
PHONE 915-655-7522
Southwest College -of- REAL ESTATE
Excellent through Education

PIANO lessons, North Garfield area. Beginners and intermediate. Call 682-5020 after 4:30.

7 Schools, Instruction

MEN & WOMEN, 17-62
TRAIN NOW FOR CIVIL SERVICE EXAMS
No High School Necessary
Positions Start As High As
$6.75 Hour
POST OFFICE MECHANICS
CLERICAL INSPECTORS
Keep present job while preparing at home for Government Exams.
Write & include Phone No. To: National Training Svc., Inc. Box B-16, c/o Midland Reporter-Telegram.

GUITAR lessons. Beginner through intermediate. Number of students limited. 682-6967.

15 Help Wanted

NEED responsible woman to care for two children and house. Must have references and own transportation. Call 697-2694 (after 5 weekdays).

WANTED, Hair stylist for Midland's most modern hair salon. 683-1831 or come by 1004 N. Big Spring.

HELP wanted in small cafeteria. Apply in person to Dorothy at Levi Strauss. After hours call 697-4985 until 9 PM.

HOUSEKEEPER. Care of active home and 3 children, ages 11, 8 and 2. I must travel occasionally and need someone who is free to stay overnight or could live in. No age limit. Must speak some English. 697-3624.

15 Help Wanted

EXPLORATION GEOLOGIST
3 to 5 years experience, relocate to Colorado. Outstanding petro-chemical company. To $20K. FEE PAID. Call Carmen, 563-0820.
BENNETT EMPLOYMENT SERVICE
Suite L-120, Midland Hilton

BSED, ELECTRO MECH/DESIGN, major completion. Louisiana. $23,000
DEVELOPMENT ENGR. Comples scientific, high pressure process. $28,000.
ENGINEERS & SUPV. FOREMAN. Variety of oil & gas production & drilling positions. To $50,000 + + +
PROJECT MGR. BSME, mechanical contracting exp. $30,000.
ARIZONA GAS UTILITY needs distribution engr, BSME & some exp. To $25,000.
All Fees Paid by Employer
Vance Employment Service
917 Barfield Bldg., Amarillo, Tex., 79101. (806) 372-3456.

BUSBOY, dishwasher. Apply at Denny's Restaurant, 3701 W. Wall.

WAITRESSES wanted. Apply in person after 2 PM. 3920 W. Wall. The Place.

HOUSEKEEPERS. Fringe benefits, insurance, stock option. Apply Motel "6", 1000 S. Midkiff.

DOLLAR Rent-A-Car needs full or part time help to service rent cars. Salary open. Located at Midland Air Terminal.

SOUTHWESTERN Livestock Auction needs part-time help on sale day each Tuesday at $3.00 hour. If interested call 682-9476.

NEED a lady for nursery work part time. Must be dependable. Call 697-4007 or 694-6466.

EXPERIENCED manager needed. Greenhouse Apartments. Call 697-3121.

15 Help Wanted

SOMEONE to live-in and care for 2 children. Good pay, paid vacation and other fringes. Please call 694-3057 after 6.

* Accounts Receivable *
Take this all in with or without sales experience and the interest in this job will net you great results. Call Martha, 683-4221, Southwest Personnel, 407 Kent Street.

DO YOU TYPE?
And are you interested in temporary job assignments? Call 682-9748, Suite L-120, Midland Hilton.
KELLY GIRL
(A division of Kelly Services)
Not an agency, never a fee.
Equal Opportunity Employer M/F

PRICING CLERK NEEDED
Experience helpful.
PALMER PIPE & SUPPLY, INC.
682-7337

MANAGER
Expansion minded co. Proven ability to handle responsibility! Fee paid. $12,000+. Pam, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

15 Help Wanted

NEW business needs more help. Good wages and working conditions. Women preferred. Call anytime, 683-8951 for appointment.

DELIVERY. Must have commercial license. Apply in person, Heath Furniture Company, 108 N. Main.

NEED woman to care for 3 month old boy in my home. Call 683-8035.

PART TIME BARTENDER
6-10:30 PM
Apply in person only between 9:30 AM or after 6:30 PM.
LUIGI'S
111 N. Big Spring

SENIOR LAND MAN
To head land department. 10 to 15 years experience. $25 to $40K. FEE PAID. Call Mark Bennett, 563-0820.
BENNETT EMPLOYMENT SERVICE
Suite 101,
National Bank of Odessa

LAND SECRETARY
Independent seeks mature secretary with a least 2 years land lease records experience. Send resume to P.O. Box 2418, Midland, Texas 79702 or call 683-5451.

TACO BELL
...needs day and night help. Flexible hours. Free lunch and uniforms.
210 N. Midkiff
697-2991

CRUDE OIL PURCHASER
Must have contacts with majors. Overseas travel. Degree. $50 to $60K. FEE PAID. Call Mark Bennett, 563-0820.
BENNET EMPLOYMENT SERVICE
Suite 101,
National Bank of Odessa

15 Help Wanted

NEED mature person to care for one child, Monday thru Friday, 8 to 5, in my home. For more information, call 684-7234.

PART time RN or LVN to take health history for insurance companies in Midland. Call (806) 747-3223.

PART time baby sitter needed. Bonham School. 694-9884.

ADMINISTRATIVE ASSISTANT
Entry level position for career minded person. Handle administrative and personnel duties. Excellent company, nice starting salary, great boss. Call Kathy, Southwest Personnel, 683-4221, 407 Kent Street.

DRAFTING
Geological. Sharp individual. Career spot. $12,500. Sandy, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

OIL & GAS ACCOUNTING CLERK
Light typing & filing. Basic oil & gas accounting. Good pay & fringe benefits. Call 683-1837.

BEST WESTERN OF MIDLAND
NIGHT AUDITOR
Position open immediately. Excellent salary. Experienced preferred. Call for appointment. 684-6611.

TYPIST
Lots of variety! Promotion opportunity. Pleasant working conditions. $540. Connie, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

SALES
Fantastic opportunity for go-getter. Unbeatable benefit pkg. Car + expenses. Fee paid. $16,000 + bonus. Pam, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

??????????
Guess what we are looking for over at Southwest Personnel? It pays lots of money, requires well rounded background, little typing, no shorthand. Only public relations oriented people need apply. Call Southwest Personnel, 682-4221, 407 Kent Street.

COOK'S HELPER
MIDLAND CARE CENTER
2000 N. Main
Please apply in person

SALES
Oil field related. Car, expenses, salary + commission. $18,000. Sandy, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

HOSTESS & WAITRESSES WANTED
Please apply in person.
Split shift
BLUE STAR INN
2501 W. Wall

15 Help Wanted

MAID for afternoons needed, from 2:30 to 6:30, Monday through Friday. Must cook, drive and provide excellent references. Good salary. Call 684-9684.

LVN's needed all shifts. Experience in nursing home or hospital preferred. Great Southwest Care Center. 3263 Sage. 683-5403.

WANTED

Part time control counter and full time or part time snack bar personnel. Apply in person.

AIR PARK LANES
413 AIR PARK DRIVE

CAREER OPPT'Y

Good math ability opens doors! Mature, stable, ambitious. Park free. $680. Connie, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

* ATTENTION ACCOUNTANTS *

Southwest Personnel has several positions for degreed accountants. One CPA needed, two oil & gas, one tax, one auditing. Hurry! Call Southwest Personnel today. 683-4221, 407 Kent Street.

MEDICAL RECEPTIONIST

Must type 45 wpm. Experience in bookkeeping to trial balance and insurance claim forms desired.
683-5631

GENERAL OFFICE

Accounting/Bookkeeper bkgd. Variety plus challenge! Park free. $625. Susan, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

NEEDED

Neat, clean, responsible man or women, 21 through 70 with cashier—clerk experience for work in small grocery store. Full time and part time openings. Days, evenings, weekends. For interview call Monday, Oct. 16, between 10 AM-7 PM or Tuesday, Oct. 17, 8 AM-2 PM.
685-1467

* Insurance Secretary *

If you understand medical insurance, long-term disability, and want to head up the insurance section of large company with excellent benefits, call Kathy for this fee paid position. Heavy PR work. Call Southwest Personnel, 683-4221, 407 Kent Street.

EXPERIENCED SALESPERSON

...for pet shop. Mail resume to: Pets Galore, 10-A Meta Drive, Midland.

SECRETARY

General office! Public contact. Friendly atmosphere! $650. Susan, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

CHEF

North Texas Country Club with 750 members needs working chef for high quality food operation. This is a year round position with full benefits package. Salary area $20,000 to $22,000. Send resume to Wichita Falls Country Club, 1701 Hamilton Blvd., Wichita Falls, TX 76308.

* Sales *

20/20 and envision this part time position. Light duties in pretty atmosphere will leave 20 hours for your leisure. Call Martha, 683-4221, Southwest Personnel, 407 Kent Street.

ELEC/MECH

Top manufacturing firm. Maintenance. Fee paid. $14,000. Carla, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

NEEDED JANITOR

WESTGATE MANOR
2800 N. Midland Dr.
697-3108

HOMEMAKERS

9:30 AM-3 PM daily. Saturdays optional. If you meet our requirements, the positions offers unlimited income opportunity. Experience in Church, PTA, Scouting or community work desirable. Call Sales Manager, Dorothy Mueller, 697-4455.
(L-155)

RETAIL

Manager: local store. Established, responsibility. $12,000. Carla, 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

* Oil Field Supervisor *

In the oil field. Secondary recovery knowledge necessary for this production Foremen position. Will be working the Sprayberry area. Fee paid $1,800-2,000. Call Sandy, 683-4221, Southwest Personnel, 407 Kent Street.

COUPLE TO MANAGE MOBILE HOME PARK

Man must have maintenance ability. Call,
694-0402
After 6, 682-1596

INVENTORY CLERK

Oil-related co. Good typing skills. Stable, dependable. Park free. $750. 683-6311.
SNELLING and SNELLING
Personnel Service 2004 W. Wall

RESTAURANT/CONVENIENCE STORE HELP WANTED

Cooks, waitresses, dishwashers, cashiers. Apply in person 9-5 Monday through Friday.
WARFIELD TRUCK TERMINAL

* Executive Secretary *

Join the holiday chorus and sing the praises of this terrific boss. Good skills and some geological smarts will put you up the ladder of success. Call Martha, 683-4221, Southwest Personnel, 407 Kent Street.

15 Help Wanted

EARN EXCELLENT PART-TIME INCOME FOR HOURS REQUIRED as a— REPORTER-TELEGRAM NEWSPAPER ROUTE CARRIER

ROUTE OPENINGS AVAILABLE IN THE FOLLOWING AREAS:—

Route 1-10
1600-2000 Holloway
1500-2000 Indiana
1500-1800 Washington
1500-1700 College
1500-1800 Kentucky

Route 1-12
1200-1300 Washington
1200-1400 Kentucky
1200-1400 College
1200-1400 Indiana

Route 1-13
900-1000 Washington
800-1000 Kentucky
1000-1100 College
1000-1100 Indiana

Route 1-14
1200-1900 W. Wall
900-2100 W. Missouri

Route 1-16
1100-1900 Illinois
1100-1900 Texas

Route 1-20
2700-3200 Michigan
400 Mariana
400 Sunset

Route 1-21
2900-3200 Louisiana
600 Powell

Route 1-23
3100-3200 Illinois
3100-3200 Kessler
3100 Barclay
3200 Thomas

Route 1-26
2700-3200 Ohio
3100-3200 Illinois
300 Kessler
300 Sunset
300 Mariana

Route 2-15
600-100 W. Kansas
500-700 W. Storey

Route 2-25
1100-1600 E. Hickory
1100-1600 E. Magnolia
1100-1700 E. Maple

Route 3-03
2600 No. A
700 Dormard
400-800 Spruce
400-700 Pine
400 Pecan

Route 3-25
2400 Whitmire Haystack El Paisano Apts.

Route 3-28
4405 No. Garfield Warwick Apts.

Route 4-27
4500-5200 Andrews
Andalusian Apts.
Windsor Pl. Apts.

Route 5-22
1100-200 Eisenhower
100-200 Dewberry
100-200 Glenwood
470-4800 Thomason

For Full Details Call—
CIRCULATION DEPARTMENT

MATURE male or female. Must have knowledge of horses. Prefer someone able to break and gallop colts. Call Buster Phipps, 8 AM to 6 PM, (806) 665-3385.

NEED mature responsible woman to care for two year old boy. Prefer my home. Part time at first. Call 694-2489.

PLUMBERS HELPERS NEEDED

B&M Mechanical Services
684-6271

PBX OPERATORS NEEDED

Must be able to follow instructions. Good pay.
682-2134

* Engineering Secretary *

Rail-Road your old hum-drum job and take a trip with me to get this job. You need 60 wpm., Sh at 60. Call Sandy, 683-4221, Southwest Personnel, 407 Kent Street.

SHENANIGANS

Now accepting applications for experienced Broiler Man. Flexible hours. Apply in person, 9 to noon, Mon.—Fri.
3330 West Illinois
697-3216

* Sales *

How would you like to sail around the oil field? Your boat will be docked either at Hobbs, Seminole, Odessa, or Sonora. To make Captain bring your duffel bag and experience to Sandy at Southwest Personnel, 407 Kent Street, 683-4221.

MANAGER TRAINEE. A fast growing and nationally known financial service has an opening for Manager Trainee who is interested in advancement. Top salary, profit sharing, life and hospitalization insurance and other benefits. Excellent opportunity for personable, energetic individual interested in progressing with one of the fastest growing companies in it's field. Promotion from within. Give full details by calling WARREN NEWSON, AVCO FINANCIAL SERVICES, 1524 N. GRANDVIEW, ODESSA, TEXAS. 362-7331. An Equal Opportunity Employer.

* Secretary-Bookkeeper *

This job has more pluses than a math test. Nice office, young co-workers, excellent salary! Multiply your 70 wpm by your full charge bookkeeping experience. The only minus is if you don't call Sandy at 683-4221, Southwest Personnel, 407 Kent Street.

15 Help Wanted

IMMEDIATE OPENING PART TIME ASSISTANT DISTRICT MANAGER

For The Midland Reporter-Telegram. Ideal situation for college student. Apply in person to BILLIE SLEMMONS,
Midland Reporter-Telegram
201 East Illinois

PART TIME SALES MANAGEMENT CONSULTANT

Growing graphics company needs part time sales management consultant. Excellent opportunity for retired person to participate in our market development. Send resume to P.O. Box 391, Midland, Texas 79702. Attention: Personnel.

DR. PEPPER BOTTLING CO.
Now Has Openings
Route Salesman
Good Benefits & Working Conditions
APPLY IN PERSON ONLY
TRI-CITY BEVERAGES, INC.
2101 Market Street
Midland, Texas

DENTAL CHAIRSIDE ASSISTANT WANTED

Prefer training, but will train. Corporate benefits available. Must be able to work with people. Please reply to Box B-18, c/o Midland Reporter-Telegram, P.O. Box 1650, Midland, Texas 79702.

EXPERIENCED MAID

Needed for family for hours 9-3, five days a week. $4.00 an hour. Send qualifications to:
Box B-19
C/O Midland Reporter-Telegram
P.O. Box 1650
Midland, Texas 79702

FULL CHARGE BOOKKEEPER

Full charge bookkeeper with oil and gas experience. Responsible position with growing concern. Non-smoker preferred. Call 683-7580 for appointment.

RN and LVN

11 to 7
With variable hours
PARKVIEW HOSPITAL
683-5491, ext. 40

TRUCK DRIVER NEEDED

Running cross country.
Call 683-8101

DRAFTSMAN PART-TIME

Has choice of hours. 8 to 12 or 1 to 5.
Apply in Person
To: Glenda
2209 N. Big Spring, Suite D

LVN

Doctor's Office
Send complete handwritten resume to Box B-17, c/o Midland Reporter-Telegram, P.O. Box 1650, Midland, TX 79702.

HOUSEWIFES! STUDENTS! Down with boredom, turn your spare hours to Christmas cash at Burger King. Up to $3.25 an hour, full or part time, day or night shifts. Uniforms furnished, flexible schedule, food allowance, we will train. Burger King. Apply in person only.
710 Andrews Hwy.

NEEDED Cook & Cook's Helper

WESTGATE MANOR
697-3108
2800 N. Midland Drive

MAIDS NEEDED

HOLIDAY INN
Apply in person to
Terri Newton
Housekeeping

MIDLAND HILTON

Needs full or part time waiters and waitresses. Must be at least 18 years of age. Call for appointment.
Mr. Gene Kovacs
683-6131, Ext. 2024

Relief
Night Auditor
11-7 Shift
Attractive Salary
Company Benefits
APPLY
HOLIDAY INN
MIDLAND

GOLF COURSE CONSTRUCTION Help Wanted

Common labor and machine operators needed. Experience in irrigation work desirable, but not necessary. Both temporary and permanent employees sought. Good pay and fringe benefits for those who qualify. Local work on N. Midland Dr. Contact Frank Hutchinson, 697-5261, 682-9820 after 6.

A. B. DICK PRESSMAN

Need experienced operator for busy quick print shop, good pay and full benefits package. Call James Willhite, MISTER KWIK PRINT, "A" & Indiana, 683-3301.

HOLIDAY INN OF MIDLAND

MAINTENANCE HELPER
Contact Steve Duff
COCKTAIL WAITRESS
BARTENDER
Apply in person

SHAKEY'S NEEDS

- DAY HELP - 10 AM to 5 PM
- NIGHT HELP
- BARTENDERS

$2.90 per hour.
5 to midnight
Full or part time
Please apply in person after 2 PM.
3305 Andrews Hwy.

ACCOUNTANT

Financial accounting position with Midland based energy company. Responsibility for all accounting functions, including preparation of in-house financial statements. Recommendation a must, experience in oil and gas mandatory, degree required. Call Keith Moore, 682-6311.

FOUNTAIN HELP

Needed to work after school and on weekends. Apply in person.
TEXAS BURGER
3215 Wadley

FLAG-REDFERN OIL CO. REQUIRES LAND MGR.

Opportunity available. Successful applicant must have minimum seven years oil and gas land experience. Competitive salary and benefits plus project participation. Apply in confidence to: John J. Redfern, Jr., President, 1200 Wall Towers West, Midland, TX.

SR. PUMPER & PRODUCTION FOREMAN

Active Independent has opening for one experienced pumper & one production foreman in Pecos & Crockett area. Send work history to P.O. Box 2418, Midland, Texas 79702.

NEEDED

Experienced LVN's
Med-aides, nurses aides
WESTGATE MANOR
2800 N. Midland Drive
697-3108

RN

Doctor's Office
Send complete handwritten resume to Box B-1, c/o Midland Reporter-Telegram, P.O. Box 1650, Midland, Texas 79702.

MANAGER COUPLE

Excellent opportunity for mature man and wife team to operate large West Texas Motel and club. Experience in supervision and maintenance preferred. Please mail resume to: Box B-14, c/o Midland Reporter-Telegram, P. O. Box 1650, Midland, Texas 79702.

AVON

YOU'RE TOO YOUNG TO RETIRE!
Become an Avon Representative instead. You can earn extra money and meet new people. Flexible hours let you be active when you want. Call Margaret Luce, AVON District Manager, 682-0870.

RETIRED PRODUCTION FOREMEN

Texas Pacific Oil Company, Inc., has need of unique services. If you are a retired production foreman we need your help. Texas Pacific is changing over its inventory system. To do this, we must physicially inventory all our field equipment in West Texas. We have full and part time positions available for retirees who would like to supplement their income.
If you are interested, contact Mr. Williams on October 18th, 19th or 20th at Texas Pacific Oil Company, Midland, Texas. For an interview call
(915) 684-5584
equal opportunity employer M/F

15 Help Wanted

GEOLOGICAL ENGINEERING

Where Does A Ground Floor Opportunity Really Start?

Possibly with a unique, highly specialized entry level program. At CORE LABS, we can offer Geology and Science graduates job opportunities in the petroleum engineering and oil field service industry.
After training, you will perform hands-on work in the oil field, work irregular hours where and when needed, and have a good technical/mechanical aptitude. You will be responsible for analyzing, evaluating, and logging subsurface drill cuttings. You must be able to work in a single status, and be available for overseas assignments, if required.
Ground floor opportunities at CORE LABS are challenging, rewarding and hard work; and in return, we offer good base pay, plus living allowances and complete company benefit program. For immediate consideration, please send resume in confidence to:
W.L.
CORE LAB
CORE LABS, INC.
7501 Stemmons Frwy.
Near Mockingbird & Stemmons
Dallas, Texas 75247
Equal Opportunity Employer M/F

GIBSON'S
3111 CUTHBERT
Is Now Hiring In Our Grocery Department
- FULL TIME DAY STOCKER
Salary Commensurate with Experience
- Excellent Company Benefits
- Equal Opportunity Employer M/F
APPLY AT SERVICE DESK

ENGINEER
QUALITY ENGINEER

We have a growing resistor product line in Corpus Christi, Texas which provides career growth opportunity for a shirt-sleeve quality engineer with at least 2-5 years experience in a technology-oriented industry.
Major responsibilities entail monitoring a high volume, high speed production process, establishing process parameters and sampling plans to insure compliance with customer specifications, environmental testing and provide technical sales support. ASQC certification preferred.
Kindly send resume including salary requirements in strict confidence to Mark Johnson, Mgr., Industrial Relations:
TRW, INC.
401 N. Broad St.
Philadelphia, Pa. 19108
An Equal Opportunity Employer M/F

ATTENTION VETERANS

USE YOUR MEDICAL MILITARY TRAINING IN A CIVILIAN HEALTH CARRER
FOR FREE ASSISTANCE IN
- JOB PLACEMENT
- HEALTH EDUCATION PROGRAMS
- HEALTH CAREER COUNSELING

CONTACT:
TEXAS PROJECT MEDIHC -Gen. Ed.
Development Office
WBAMC, Bldg. no. 7000
EL PASO, TX 79920
915-568-5523

MANPOWER TEMPORARY SERVICES
Don't be left lonely by back to school blues. Fight boredom, make extra money. We need typists, secretaries, labor, etc.
683-4624 EOE 1002 W. WALL

WANTED operators and drivers for dozer, mainfainer-loader, scaper and water truck for the Andrews area. Paid vacation and good benefits. Contact Grimmett Brothers Inc., at 915-573-8545 in Snyder or 915-523-5814 in Andrews.

WANTED ROUSTABOUT PUSHERS

Days-Call 697-3188
Nights - Call Danny, 684-9718 or Bubba, 683-6429

CLERKS

You don't have to type to work temporary assignments. We need people with office knowledge. You never pay a fee. Call Kelly Services, 682-9748 for interview.
L-120, Midland Hilton
Equal Opportunity Employer M/F

15 Help Wanted

$1200.00 Per Month Plus

Manager Trainee needed to fill $58,000 per year position. It normally takes only 2 to 3 years to become a manager. $14,400 is your guaranteed annual salary while you learn; however, for those who survive, the first year aveage compensation is $24,800 due to additional sales commissions. 90 to 95% of your time will be in sales during the 2 to 3 year training period.
The qualifications are tough-please don't apply unless you meet each and every qualification.
1. Impeccable integrity and references.
2. 4 year degree from accredited college or high school diploma coupled with 2 years of heavy, retail manager experience.
3. Willing to work over (60) hours per week (no Sunday or out town work.)
4. Willing to take polygraph test.
5. Willing and capable of taking instructions.
6. Not have any prior heavy sales experience such as Real Estate, Automobile, Mobile Homes, vacuum cleaners or Etc.
We have an extraordinary benefit plan including a retirement profit sharing plan. We don't list with employment agencies and request they don't refer "candidates" to us.
JIM PHILLIPS
A-1 INC.
Mobile Homes & Recreational Vehicles
4120 W. Wall St. Midland 694-6666

NEWSPAPER CIRCULATION DISTRICT MANAGER

Excellent opportunity for a man or woman who enjoys working with young people.
* Excellent starting hourly pay
* Company pickup truck furnished
* Excellent package of company benefits
* No experience necessary—will train
Apply in person to: Personnel Dept.
MIDLAND REPORTER-TELEGRAM
201 E. Illinois Dial 682-5311

RN'S—LVN'S—AIDES —ORDERLIES

Immediate openings due to expansion of hospital. Good starting salaries plus allowance for experience. Shift differentials and special area pay. Attractive benefit package.
Contact Personnel
MIDLAND COUNTY HOSPITAL DISTRICT
2200 W. Illinois
(915) 682-0972
Equal Opportunity Employer M/F

BOOKKEEPER

Efficient person to keep books and handle light secretarial duties. Two girl office with Burroughs mini-computer. Good pay with fringe benefits.
Send resume and expected salary to:
P. O. BOX 292
Midland, Texas 79702

PIPELINE ENGINEERS

International engineering and consulting firm seeking professional pipeline engineers. Desire minimum 3 years diversified engineering experience involving the transportation and handling of gasses and liquids by pipelines. Experienced in both onshore and offshore pipeline facilities desirable. Potential overseas assignment. Qualified applicants send resume to or call collect:
Albert Jamail
PETRO-MARINE ENGINEERING, INC.
Employee Relations Dept.
8989 Westheimer, Suite 308
Houston, Texas 77063
(713) 789-8751
Equal Opportunity Employer M/F

BENNETT EMPLOYMENT SERVICE

Midland Hilton, Suite L-120
684-5523
Midland's Oldest and Finest Private Employment Agency

WANT ADS
Dial 682-6222

GIBSON'S
3111 Cuthbert
Now Hiring In Our
- HEALTH and BEAUTY AIDS DEPARTMENT
Salary Commensurate with Experience
- Excellent Company Benefits
- Equal Opportunity Employer M/F
- Apply At The Service Desk

A-1 EMPLOYMENT Service
515 West Texas
684-5772-563-1357
"WE SPECIALIZE IN THE OIL INDUSTRY"
PERMANENT-TEMPORARY

COMBINATION delivery salesclerk. Must be 18 or over. Apply 413 Andrews Hwy.

NEED lady to care for children in our home after school. Call 694-7128.

Who gives you important work, good pay, a variety of shifts, and half of each year to pursue your own interests?

Texas Instruments has immediate openings for people to help build calculators and digital watches. If you're good at working with your hands (such as sewing, building models, or do-it-yourself hobbies), see us now. Apply at the TI Employment Center at the Midland-Odessa Air Terminal, 8 a.m. 'til 8 p.m. Monday through Friday and 8 'til noon on Saturday.
An equal opportunity employer M/F
TEXAS INSTRUMENTS INCORPORATED
The best of two worlds

CONTECH employment service

2008 W. Wall
All fees assumed by client companies

GEOLOGIST
Growing independent oil company seeking skilled exploration geologist with 2-4 years experience. Excellent opportunity for rapid advancement as company expands. 24-26k with full benefits.

GEOLOGIST
Major oil company seeking development or exploration geologist with 3-5 years experience. Willing to relocate to New Mexico. 30k plus excellent benefits.

GEOLOGIST
Solid local independent company seeking geologist with 5 years experience that can be brought up into future management. Great opportunity for '70-'75 graduates.

GEOLOGIST
Exploration office seeking senior geologist with 5 years Western Oklahoma experience. Must be willing to relocate. Rocky Mountains. 30-40k.

BENCH SERVICE TECHNICIAN
Established company has immediate openings for service technicians. Associate degree in electronics preferred. Will accept equivalent military training. Work will be performed in repair calibration. Entry level people acceptable.
Contact Kelly Bane, executive consultant.
684-5868 563-0838

GIFFORD, MITCHELL & WISENBAKER

INVOICE CONTROL

Experienced person needed for joint interest invoice control. Must be well acquainted with oil and gas operations. Position includes AFE and inventory control. Salary negotiable.
Contact:
Rexanna Heidelberg
682-6282
9:00 AM - 4:00 PM

SENIOR EXPLORATION GEOLOGIST

NRM Petroleum Corp. needs aggressive oil finder to screen/generate prospects. Must have varied experience in Permian Basin. Salary and benefits commensurate with skills and experience. For more information contact:
DEAN ROWE or DAVE GRIFFIN
at (915) 684-7871

The Midland Reporter-Telegram
PHONE 682-6222 **WANT AD** PHONE 682-6222
ORDER FORM

WRITE YOUR WANT AD HERE
TO DETERMINE COST OF YOUR AD, PUT EACH WORD IN SPACE PROVIDED

(1)____ (2)____ (3)____ (4)____ (5)____
(6____ (7)____ (8)____ (9)____ (10)____
(11)____ (12)____ (13)____ (14)____ (15)____
(16)____ (17)____ (18)____ (19)____ (20)____
(21)____ (22)____ (23)____ (24)____ (25)____

CHECK THE COST OF YOUR AD HERE
RATES SHOWN ARE BASED ON MULTIPLE INSERTIONS (MINIMUM CHARGE 15 WORDS)

NUMBER OF WORDS	1 DAY	2 DAYS	3 DAYS	4 DAYS	5 DAYS	6 DAYS	7 DAYS
15	2.55	4.20	6.15	Free	7.65	9.15	Free
16	2.72	4.48	6.56	Free	8.16	9.76	Free
17	2.89	4.76	6.97	Free	8.67	10.37	Free
18	3.06	5.04	7.38	Free	9.18	10.98	Free
19	3.23	5.32	7.79	Free	9.69	11.59	Free
20	3.40	5.60	8.20	Free	10.20	12.20	Free
21	3.57	5.88	8.61	Free	10.71	12.81	Free
22	3.74	6.16	9.02	Free	11.22	13.42	Free
23	3.91	6.44	9.43	Free	11.73	14.03	Free
24	4.08	6.72	9.84	Free	12.24	14.64	Free
25	4.25	7.00	10.25	Free	12.75	15.25	Free

CLIP AND MAIL--PLEASE ENCLOSE CHECK OR MONEY ORDER
Publish for____ Days, Beginning ____
NAME ____ PHONE ____
ADDRESS ____
CITY ____ STATE ____ ZIP ____
FOR YOUR CONVENIENCE CLIP OUT LABEL AT RIGHT AND ATTACH TO YOUR ENVELOPE
THE MIDLAND REPORTER-TELEGRAM
CLASSIFIED DEPT.
P. O. BOX 1650
MIDLAND, TEXAS 79701

15 Help Wanted

A-1 EMPLOYMENT SERVICE
515 W. Texas
684-5772 563-1357

LEASE ADMINISTRATOR
Skilled secretary needed with **exceptional knowledge** OF **all phases of land work.** Salary TO $1,200. **Fee paid.**

RECEPTIONIST
Independent seeking **front office type individual** with good telephone voice. **non smoker.** Oil experience helpful. Type 50. Salary to $750. **Fee flag.**

KEYPUNCH OPERATORS
Need several Keypunch Operators. Any experience helpful. Salaries to $900

ASSISTANT
Individual needed with **medical background.** Will train for right individual. Salary TO $600. **Fee paid.**

INVOICE CLERK
Individual to **code accounts payable** with lite accounting experience. **Oil and gas experience desired.** Lite typing. Salary TO $900. DOE. **Fee paid.**

BOOKKEEPER
General bookkeeping experience required for busy office. **Non smoker.** Type 40. Salary $700. **Fee reim.** Call Billie.

OIL AND GAS BOOKKEEPER
Full charge position with independent Operator. **Oil and gas experience** necessary. Type 50+. Salary $900. **Fee paid.** Call Billie.

ACCOUNTANT
Public accounting with 2+ years in **tax audit.** CPA preferred but not required. Salary to $16,000. **Fee neg.** Call Billie.

DRAFTSPERSON
Minimum of **1 year** in **exploration** drafting. Good free hand. **Excellent company** with **advancement potential.** Salary $1,100. **Fee paid.** Call Billie.

BUILDING SERVICE ADMINISTRATOR
11 years experience required for this position. Space layout, design, building construction and furniture/fixture installation and maintenance. Salary TO $2,017. **Fee paid.**

FIELD OPERATIONS MANAGER
If you're experienced with **down hole wire line operations** and have some **supervisory experience,** you can qualify for this position. Salary TO $1,600. **DOE. Fee paid DOL**

LIASON ENGINEER
Operate as **coordinator** between **PRODUCTION** and **ENGINEERING. Degree helpful.** SALARY OPEN.

SALES REPRESENTATIVE
Must have **2** years **water analysis** experience and **science degree. Salary to $25,000.+comm. Fee paid.**

PARTS PERSON
Should understand **oilfield equipment blue prints and be able to supervise** warehouse. **Salary to $1,500. Fee neg.**

ELECTRONIC TECHNICIAN
High level abilities for **inspection** and **testing** of **OEM** products. **Salary** $1,160. + **Fee paid.**

SUPERVISOR
Need individual with excellent background in **electrical, mechanical** and **hydraulics Sales oriented** and **ability** to manage area location. **Relocate Fee paid.**

COMPLETION FOREMAN
Excellent independent company seeking qualfied individual for **well completions.** Drilling a plus, buy not mandatory. **Fee paid.** Contact Jess Thompson.

DRILLING FOREMAN
Need individual with **drilling experience** and the ability to handle **drilling operations** for independent oil company. Production experience a plus. **Fee paid.** Contact Jess Thompson.

ENGINEERS
Need either **production** or **reservoir** experience for **Independents.** 3 to 15 years experience. **Excellent positions. Fee paid.** Contact Jess Thompson.

GEOLOGIST
Degreed geologist with minimum 3 **years experience for Denver location. Fee paid.** Jess Thompson.

EXPLORTION MANAGER
Exploration geologist with **15 + years experience.** Must have some **supervisory experience. Fee paid.** $45,000 + . Conatct Jess Thompson.

EXPLORATION GEOLOGISTS
Exploration geologist with **5+ years experience.** Needs some **Permian Basin. Salary open. Fee paid.** Contact Jess Thompson.

EXPLORATION GEOLOGIST
Midland based comapny seeking exploration geologist for **management level consideration. Must be aggressive.** Excellent potential. To $40,000. **Fee paid.** Contact Jess Thompson.

DEVELOPMENT GEOLOGISTS
Need geologists who are interested in **development type geology.** Need **3-10 years experience** for these **positions. Fee paid.** Contact Jess Thompson.

A-1 EMPLOYMENT SERVICE
515 W. TEXAS
684-5772 563-1357

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15 Help Wanted

TECHNICIANS

TI in Midland has the following openings:

Equipment Technicians

Electromechanical installation, troubleshooting, maintaining and upgrading of manufacturing equipment. Work from complex manuals and schematics. Perform variety of complex repairs and maintenance tasks. Requires 3-5 years' directly related experience. Heavy electromechanical background.

Manufacturing Technicians

Provide technical support associated with troubleshoot and repair of electronic calculators. Work with manufacturing personnel to identify and implement fixes to yield loss problems. Work with engineering personnel to perform analysis as required. Requires AS degree plus 2-3 years of related experience or trade school training such as Devry or Bell & Howell Schools. Equivalent military experience will also be considered. Apply in person at the Employment Center, Texas Instruments, Midland-Odessa Air Terminal, Monday-Friday, 8AM-4PM.

TEXAS INSTRUMENTS INCORPORATED
An equal opportunity employer M/F

DRILLING RIG SALESMAN

Generous salary, yearly bonus, car furnished, liberal expense account, 8 holidays per year, 5 day week, paid vacation, hospitalization and retirement plan.

Must Be Experienced
CALL FOR APPOINTMENT

IDECO
Division of Dresser Industries
(915) 362-2346

MACHINISTS

DAY & NIGHT SHIFT
HOLLOW SPINDLE LATHES
BORING MILLS — MILLS
ENGINE LATHES
ASSEMBLY MECHANICS
FABRICATION WELDERS

*** FULL BENEFITS ***

HOSPITALIZATION
DEPENDENT COVERAGE
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DISABILITY INSURANCE
ANNUAL BONUS
MAJOR MEDICAL
HOLIDAYS
LIFE INSURANCE
VACATION
UNIFORMS FURNISHED

CALL COLLECT
915-332-8515

OPI INC.
905 S. GRANDVIEW
ODESSA, TEXAS

OPI INC. IS AN INTERNATIONAL MANUFACTURING AND OILFIELD SERVICE COMPANY

WELL LOGGING ENGINEERS

CRC Wireline Services, Inc., a leader in the wireline well-service industry, has immediate openings for wireline service engineers at our locations in Louisiana, Oklahoma and Texas.

We are seeking individuals with 3-5 years experience in cased hole logging and perforating and related services. Additional requirements include high degrees of both motivation as well as professionalism in the performance of services to our customers. Ours is a growth company with ambitious expansion plans which will provide opportunities for advancement to able individuals.

These positions offer competitive salaries and benefits. Please submit resumes or inquiries in complete confidence to:

Corporate Office
CRC Wireline Services, Inc.
P.O. Box 53127
Lafayette, Louisiana 70707
Phone (303) 237-3800, Ext. 107

BRYANT BUREAU
Executive Placement Service

Company Paid Fees

GEOLOGIST ..... $35K+
Prospect generator. Relocate Oklahoma City. 5+ years experience. Anadarko/Arkoma background. Call Beth Slaton.

MGR. APP. ENG. ..... $OPEN
Sucker Rod Pump systems experience. Heavy responsibility. Car, expenses. Local. Call Beth Slaton.

SALES ..... $BASE+
Local. Office Products/ Top National Company. Future opportunity. Call Beth Slaton.

CUST. SER. REP. $10,000
Electronics background. Local. Call Beth Slaton.

2002 W. Wall Midland, Texas 683-3223

GIBSON'S
3111 CUTHBERT
Now Hiring
•FULL TIME CASHIERS
Starting Salary $3.40 Hour or Commensurate with Experience.
•DAYTIME SACKERS
Full Time
Starting Salary $3.10 Hour.
•Excellent Company Benefits
•Equal Opportunity Employer M/F
•Apply at Service Desk

Pizza Hut

2202 Wadley
427 Andrews Hwy.

HELP WANTED

Male or Female, full time or part-time positions open. Day or night time, weekdays or weekends. Good advancement opportunity. Excellent working conditions and flexible hours.

Apply in person at either Pizza Hut Locations listed above
Must be at least 18 years of age
We are equal opportunity employers

Mineral Exploration Drilling Tools • Blast Hole Drilling Tools • Big Hole Drilling Tools • Water Well Drilling Tools • Oil Field Mining Exploration and Construction Tools • Big Hole Drilling Tools

MACHINE SHOP OPENINGS

If you have machine shop experience contact us about employment in a world wide company with opportunity for personal growth. Good working conditions and benefits are provided. Wages are dependent on experience.

Benefits include:
- Paid Family Medical Plan
- Paid Life Insurance
- Paid Sick Leave Insurance
- Paid Vacations
- Paid Holidays
- Paid Uniform Program
- 50-60 Hours Per Week
- Daily Overtime Bonus
- Shift Bonus Pay
- Employee Credit Union
- Profit Sharing Plan
- Educational Reimbursement

Employment office is located at intersection of Garden City Hwy. and Fairground Rd.

DRILCO INDUSTRIAL
Division of Smith International, Inc.
3100 Garden City Highway • (915) 683-5431 • P.O. Box 3135 • Midland, Texas 79702
Employment office located at Intersection of Garden City Highway and Fairgrounds Road
An Equal Opportunity Employer

IMMEDIATE OPENING
–for–
Order Control Specialist

Position requires customer contact and a knowledge of oil field terminology. Computer input and accounting knowledge helpful.

Salary commensurate with experience; excellent benefits.

Apply in person:–

CENTRILIFT INC

2065 Market St. 694-9676 Midland, TX

GIBSON'S
3111 CUTHBERT
Now Hiring In Our
SOFT LINES DEPARTMENT
Infants, Girls Ready to Wear
Ladies Ready to Wear
★Starting Salary Commensurate with Experience
•Excellent Company Benefits
•Equal Opportunity Employer M/F
•Apply at Service Desk

ASSISTANT
BUILDING ENGINEER

Must have some experience in heating and air conditioning equipment and some maintenance. Approximately 48 hour week. Good starting salary and fringe benefits.

683-4231, ext. 311
For More Information
THE FIRST NATIONAL BANK OF MIDLAND
Equal Opportunity Employer

TACO VILLA
THE HUNGER STOP
1102 Andrews 2111 N. Big Spring

MALES & FEMALES
Looking for a Job that Has Everything?
WE HAVE IT!
We offer:–
FILL OUT AN APPLICATION
ALL POSITIONS AVAILABLE
Contact Tim or 2111 N. Big Spring Art or 1102 Andrews Hwy.

Bryant Bureau
Executive Placement Service
WHERE EXECUTIVE CAREERS BEGIN
All fees Paid by Company
683-3223 2002 W. Wall
Beth Slaton - Barry Farris

How can you put cash in Santa's pocket before Christmas without going to work forever?

The answer's easy: Apply now for a temporary job at TI.

Right now Texas Instruments is accepting applications for rapidly approaching temporary openings for electronic assemblers. Openings will be on both day and night shifts, helping produce Texas Instruments consumer products such as electronic calculators.

This is an outstanding opportunity for students, housewives or others who would like to work until mid-December without giving up their other priorities.

TI is accepting applications Monday-Friday 8AM-5PM, and Saturday, 8AM-noon. Apply at the Employment Center, Texas Instruments, Midland-Odessa Air Terminal.

TEXAS INSTRUMENTS
INCORPORATED
An equal opportunity employer M/F

Energy Placement Service
104 Wall Towers West (915) 683-5677

LAND MANAGER: Overseas all land department activity for local division of large company. 5 to 7 years land background & ability to supervise personnel. Salary range $30,000. Good benefit package. FEE PAID

GEOLOGISTS: Several client companies have openings for experienced geologists at different levels. All inquiries handled confidentially.

GEOLOGICAL SECRETARY: Type 70-80 wpm, shorthand helpful, self starter. Will train right person. Salary $850. FEE NEG.

TECHNICIANS: 2 to 3 years experience in electronics or working knowledge of basic electronics. FEE PAID.

VACATIONS WHEN YOU WANT! We have several clients needing help on a temporary basis. Call "Temps" to register for part time employment. 683-5677, ask for Sue.

SHELL OIL COMPANY
CLERK

Basic requirements: General Clerical, Typing Skills Preferred.

Apply to receptionist
12th Floor–Petroleum Building
An Equal Opportunity Employer M/F

CAREER OPPORTUNITIES
IN WEST TEXAS

EXPLORATION MANAGER
This position requires an individual with a minimum of 10 years experience in West Texas and the Gulf Coast regions and with at least a Bachelors Degree in Biology.

EXPLORATION GEOLOGIST
This position requires a minimum of 3 years experience and a Bachelors Degree in Geology.

These positions offer competitive salaries, opportunity for career growth and excellent benefits.

BTA OIL PRODUCERS
104 S. Pecos, Midland, Texas 79701
(915) 682-3753
an equal opportunity employer

شرکت ملی نفت ایران

DRILLING EQUIPMENT & MATERIALS EXPERT

THE NATIONAL IRANIAN OIL COMPANY has an important opportunity for an expert in drilling equipment and materials to oversee the extensive operations of our drilling sites throughout Iran.

Operating from our Teheran headquarters, the qualified candidate will identify, program and prepare our long-term equipment requirements and recommend the selection, use and maintenance of equipment, tools, supplies and materials. Additional duties will include a current inventory program, expert opinion on all matters related to equipment and materials, initiation of policies, preparation of instruction manuals and training of Iranian personnel, as well as special studies related to use of existing or proposed equipment.

The qualified candidate will have a minimum of a bachelor's degree in petroleum or mechanical engineering, as well as 12 or more years' experience with all drilling equipment, tools, parts and materials. This will include detailed knowledge of relevant standards, specifications, MESC and indenting-ordering procedures. Progressive experience in drilling engineering and operations is an advantage. Comprehensive command of both oral and written English is essential.

We offer a minimum 2 year contract, an attractive salary, plus overseas benefits based upon family status. For prompt, confidential consideration, please send your detailed resume, including salary history, to:

NATIONAL IRANIAN OIL COMPANY
650 Fifth Avenue, New York, New York 10019

"Iranian petroleum industry...at the service of peace and prosperity"

OXY PETROLEUM, INC.
IS SEEKING A
DISTRICT LANDMAN
FOR ITS MIDLAND OFFICE

The applicant must have a minimum of 6 years experience in all phases of land management, including negotiations and preparations of farm-outs, operating in joint venture agreements, gas contracts, etc. OXY will offer an attractive salary and benefits package to the person selected for this position.

If Qualified Contract
JOHN A. BURLESON at 684-7405 For An Interview

OXY PETROLEUM, INC.
IS AN EQUAL OPPORTUNITY EMPLOYER M/F

NURSES, NURSES AIDES, MEDI—AIDES

Immediate cases available in hospital, nursing homes & private homes. For part or full time. Good pay and benefits.

Call or Come In

QUALITY CARE
2101 W. Wall

684-6681 or 563-1142

Midland Reporter-Telegram
has an immediate opening for a
ADVERTISING SALES REPRESENTATIVE

Newspaper experience preferred. Good starting salary plus commission. Full package of company benefits.

Apply to:
BILLIE SLEMMONS, Personnel Manager
201 EAST ILLINOIS

CONTECH employment service
2008 W. WALL
ADMINISTRATIVE ASSISTANT
Top company needs you if you have bookkeeping experience. Career opportunity, chance for limited travel. Call Donna or Nancy.
684-5868 563-0838

PEPSI-COLA
WE ARE NOW TAKING APPLICATIONS FOR—
ROUTE DELIVERYMEN
for the Midland area.
Must have good work background and references.
367-8679 or 2858 Stevens Rd. Odessa

15 Help Wanted

ADMINISTRATIVE SPECIALIST
OIL AND GAS

Anadarko Production Company, an aggressive exploration and production company, is looking for an experienced individual to fill the position of Administrative Specialist in our Midland Division Office.

Responsibilities in this position include accounting, materials procurement and control, and general office administration for our exploration and production activities. Qualified candidates should have a BBA or BS degree in business and 1 or more years experience in oil and gas administration or accounting.

This is an excellent position for an individual who is versatile and willing to transfer, and who wants increasing responsibility in an expanding company. If interested, please send a resume to Harold Haunschild.

P.O. Box 1330
Houston, Texas 77001

ANADARKO PRODUCTION COMPANY
A Panhandle Eastern Company
an equal opportunity employer

CONTECH
employment service
2008 W. Wall

DRAFTING
Prestigious company needs pipeline or mechanical draftsman with 3 years experience. No degree necessary. Benefits, salary open.

COMPUTER MAINTENANCE TRAINEE
If you have electronic/computer background, you may qualify for this trainee position. Advancement based on aptitude. Excellent benefits. Salary to $900.

SECRETARY
Can you compose a letter? Add typing and front office appearance and we have your job! Non-oil, insurance and free parking. Salary to $650.

ACCOUNTANT
Non-oil related company needs degreed accountant for entry level position. Work well with people. Salary open.
684-5868

SECRETARIES
Typing and shorthand a must for this. Office expanding and needs your help. Park free. Great opportunity to get the oil experience you've been wanting. Salary $800 for entry.

GEOPHYSICAL CLERK
Tired of the same old thing day after day? Here is one with a wide variety of duties. Type 40-50, excellent benefits, parking provided. Salary to $725.

ELECTRONIC TECHNICIAN
Company seeking individual with 2 years electronic background. Individual must be able to supervise and be a problem solver. Highly technical position. Fee paid.

ADMINISTRATIVE ASSISTANT
Tax or full charge bookkeeping experience a must for this. Oil & gas experience helpful. Some secretarial background.
563-0838

THE PERMIAN CORPORATION
HAS-**IMMEDIATE OPENING FOR:**

Body Man

WE OFFER PERMANENT EMPLOYMENT AND A GOOD FUTURE IN A MODERN TRUCK SHOP FACILITY

BENEFITS INCLUDE:-

- Paid Retirement
- Paid Hospitalization Ins.
- Free Uniform Program
- Paid Holidays
- Participating Thrift Plan
- Paid Life Insurance
- Sick Pay Assistance
- Paid Vacation

FOR INTERVIEW & APPLICATION CONTACT JIMMY JOHNSON

THE PERMIAN CORPORATION
Garden City Hwy, Midland
Ph (915) 683-4711
We are an equal opportunity employer m/f

SOUTHWEST PERSONNEL SERVICES
407 KENT 683-4221
Suite "D"

ADIA
Temporary Services
Work where you want, when you want, and never pay a fee. ADIA is now hiring secretaries, typists, file clerks and receptionists.
683-6111 EOE 2004 W. WALL

16 Sales, Agents

METROPOLITAN LIFE
is now selling auto and home insurance. Needs salespeople now in order to train for license. Starting salary negotiable. Call on weekdays, 682-8681.
Equal Opportunity Employer

SALESPERSONS WANTED
Excellent opportunity to earn up to $100 a day in Bonuses plus excellent commissions on retail floor. Flexible hours and no experience is necessary.
TRANSIT FREIGHT CO.
Call Mr. Ratliff
563-0080

WE HAVE GROWN
from 1 million to 200 million (1956-1977). To reach 400 million we need sales reps who have the potential to earn in excess of $30,000. For personal interview, Call: collect at
Lowell Price
214-259-0740
after 9 AM
An Equal Opportunity Employer M/F

PART TIME OR FULL TIME SALES
Male or female. High commission on new property and life saving device that is only one of it's kind.
BRECKO, 683-5181

17 Situations Wanted

WHITE lady wants maid service. Dependable, experienced. Northwest part of Midland. Own transportation. 563-0310.

RN with BS degree desires job in Doctor's Office. 2 years hospital experience and 3 years office experience. Call 682-9195.

NEED day work. General housekeeping. Call 682-0329.

18 Child Care Service

LICENSED child care. Nights and weekends. Call 682-3382.

KENT Kiddie Korner has openings for ages 0 to 13 years. 6:30 AM to 6:00 PM. Call 682-6661 for more information or come by 409 Kent for applications.

REGISTERED child care in my home. Hot balanced meals and snacks. Personal care for your child. 685-1879.

REGISTERED conscientious mom will babysit 5 day work week. Greenwood area. 682-6510.

WE have openings in Mother's Day Out for children 3 to 19 months and 4 to 5 years old. 697-5537 or 682-2541.

DAY care for your children. 7:30-5:30. Drop-ins welcome. 1306 West Tennessee. 683-5885, 683-2840.

LICENSED child care. Breakfast, lunch and snacks served. Charged only for days here. 697-4939.

CONCERNED mom would like to keep children 5 days a week. Rankin Hwy. area. 684-4760.

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19 Business Opportunities

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21 Maytag washers, 1 double loader, 9 dryers, 2 dry cleaning machines. Excellent condition and location.
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16 Sales, Agents

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Commission, compensation package plus full health insurance and fringe benefits.

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A business every member of the family can enjoy. Motorized bicycle that gets 150 mpg is sweeping the Country as it has in Europe for over 100 years. Get in on the ground floor of a booming business. Minimum investment $22,000, includes inventory. For information call or write: Moped Action, Division of Muma Enterprises, Inc. 2416 Jackson Keller, San Antonio, Texas 78216. 512-342-1133, C. Brooks, Marketing Director.

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5,000 sq. ft. building, fixtures and inventory. 205 N. St. Peter Stanton, TX
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HIGH pressure washer, trailer mounted, 2000 P. S. I. 3000 watt alternator, kerosene burner for heat, to 200 degrees. These units are for washing. Pump jacks, trucks, tanks and etc. All new. 393-5225, Big Spring.

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Town Coupe, silver with maroon leather. All power & air, stereo 8 track, AM-FM, 24,000 miles. Excellent condition. See at 3919 W. Illinois.
694-6527 $6295 694-2139

1976 NOVA
2-door, all white Chevrolet. Air conditioning and heating, 25,000 miles, radio, automatic, power brakes and steering. Excellent condition and very well kept. Days, 683-2194. Evenings, 683-4246 or 683-8461.

1977 GRAND PRIX 2-DOOR
Silver with maroon vinyl top, maroon interior, air conditioned, tape deck, tilt wheel, 20,000 miles. Very clean, good rubber. Call 694-1051 or 694-1442. Can be seen at McClatchy Brothers, 4400 W. Industrial.

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Custom built by Rolylans, Inc. Extended top, 2 electric sun roofs, built-in AM-FM 8 track, built-in TV, electric windows, 4 Captain's chairs, couch, sink and icebox. Small equity, take up payments. Call 697-5629.

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Radio, new brown seats, new motor, excellent condition. 69,000 miles. $1500. 697-2121 or 682-9874. May be seen at 3614 W. Kansas Saturday and Sunday only.

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One Owner, Loaded, Clean
Low mileage
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1974 Subaru GL Coupe. AM-FM, 8 track. Cream puff. Great economy. Weekends and after 5:00 weekdays, 1805 Ward.

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1973 Buick Electra. Low mileage, good condition. $1900. Call after 5, 694-2179.

FOR sale, 1974 Buick Apollo hatchback. AM-FM tape, cruise control, automatic, tilt wheel, power and air, bucket seats, new tires, 350 engine 2 barrel. Super clean. 310 S. Glenwood. 694-1727.

1974 Pinto Runabout, 35,000 miles, good condition. $1600. 694-2442 after 5.

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3000 Roadster Convertible. A CLASSIC SPORTS CAR! New radial tires, 57,000 miles, 6 cylinder, excellent condition. 1000 Lanham, 683-8561.

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1977 Monza Town Coupe. Fantastic condition. Air, AM-FM cassette, vinyl top, low mileage. Call 697-4993 after 5.

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One owner. Maroon interior with swivel bucket seats, console. AM tape, cruise control. 57,000 miles. $3400. 682-9874. May be seen at 3614 W. Kansas Saturday and Sunday only.

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2-door, white, 460 V-8 engine, air, power steering, brakes, cruise control, AM-FM radio.
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1971 Chevrolet for sale. 694-5755.

1974 Dodge Charger. V-8, automatic, power steering, power brakes. New tires. Low mileage. Excellent condition. $1,995. 563-3381 or come by 125 127 Barbara Lane.

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1965 Chevrolet 4-door. Excellent school car. 1701 West Kansas. 682-6524.

FOR sale. 1975 Mercury Monarch, 6 cylinder, automatic transmission, air, AM-FM with cassette. Only 28,000 miles, excellent condition. $3,400. 694-0138.

FOR sale, 1948 Chevy Fleetline, good running condition. Make offer. 3307 Hill.

1974 Ford Gran Torino station wagon 9 passenger. Green with matching interior. Luggage rack, cruise control, factory air. Excellent condition. 35,813 miles. 267-2708, Big Spring.

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1977 Landau 2-door coupe Chevrolet. Wine Vinyl top, steel gray bottom. Air, electric windows, locks, trunk release, rally wheels, loaded. $6,200 firm. 682-8572. See after 5 at 1612 Neely.

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$3000 to $4000	1975 CHEVROLET Caprice 2-door 1974 BUICK Limited 4-door
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$6000 to $7000	1977 FORD Thunderbird, loaded
$7000 to $8000	1976 LINCOLN Town Car
OVER $10,000	1977 LINCOLN Mark V, 12,000 miles

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1978 HONDA CIVIC CVCC 5-DOOR WAGON
Regular Gasoline EPA 36 MPG HWY.

$200 DOWN
PLUS TAX, TITLE & LICENSE

$99.84 PER MONTH
Based on 48 month financing. Total of payments is $4792.32. Annual Percentage Rate is 12.68.

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$4695

Burgundy, burgundy velour, burgundy landau top, cruise control, factory road wheels, spare never go on ground, factory AM-FM 8-track, full power & air, 32,000 miles, call previous owner, must drive to appreciate.

1974 OLDSMOBILE Cutlass Supreme 2-dr., cream, gold landau top, gold interior, cruise, AM factory tape player, full power & air, color keyed road wheels, 39,000 actual miles, call previous owner $3695

1977 BUICK Regal Landau coupe, light green, light green top, green velour 60/40 seats, AM-FM 8-track tape, 25,000 actual miles, call previous owner $5695

1975 AMC Matador Wagon, red, tan interior, 6-cylinder, full power and air, local car, 30,000 actual miles $2995

SCHOOL CAR 1975 Mercury Monarch. 18,000 actual miles, 6-cylinder, 4-door, sedan, bucket seats, full power and air, new car trade-in, locally owned $3995

1976 MERCURY Cougar XR-7, silver, red velour, 60/40 seats, full power, air, chrome road wheels, AM-FM 8-track tape, 26,000 actual miles $5295

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NO DOWN PAYMENT REQUIRED
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1978 FORD Thunderbird Diamond Jubilee Edition, still in factory warranty, power steering and brakes, power seats and windows, power antenna and trunk release, AM-FM 8-track CB quadraphonic radio, color keyed rally wheels, extra sharp, must see to believe $9495

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1978 FIAT Spider Convertible, 5-speed, AM-FM cassette, radials, rally wheels, roll bar, pure sports car. Won't last long at . . . $6495

1976 TOYOTA Corolla SR-5, 5-speed, AM-FM radio, low miles, perfect around town car . . $2795

1977 DATSUN 280Z, air, AM-FM radio, 4-speed transmission, 14,000 miles, see to appreciate. . . . . MAKE AN OFFER

1976 PONTIAC Sunbird, automatic, power steering and brakes, vinyl top, radio, just 17,000 miles on this one . . $3195

1974 OLDSMOBILE Cutlass Supreme, V8, power steering and brakes, air, automatic, cruise, power windows, 8-track tape, rally wheels, new tires, silver paint $3295

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75 COUGAR XR-7 Green and White $3950	**77 Pontiac Firebird** Ready to roll, 9,000 miles $5850
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77 Volare Premier Wagon 19,000 Miles, power seats & windows $4995	**77 Cadillac DeVille** Coupe, it's nice, and it's loaded $8995
78 Cadillac Seville Diesel powered, 2,000 miles. . . . . SAVE	**75 Buick Electra** Fully loaded, 30,000 miles. $4550
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ED GRISWOLD Residence 694-9790

12/12 12 MONTHS OR 12,000 MILES MECHANICAL INSURANCE COVERAGE FOR USED CAR BUYERS
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BLACK 1974 Cutlass Supreme Coupe. Loaded. Power, air, automatic, cruise, tape, sport wheels, 350 V-8. 694-6461.

1974 VW Beetle. Low mileage, clean. Book priced, $2775. Will trade. 683-5497 after 5 weekdays.

MUST sell 1972 Buick Riviera, fully loaded, excellent condition. $1,000. 697-1010. See at 4210 Pleasant.

1975 LTD Brougham 4-door. AM-FM stereo, cruise, vinyl top. $2650. Will trade. 4512 Pleasant.

1969 Camaro. Good condition. Best offer, $1000. Call after 6:00, ask for Cindy, 697-2340, 682-8162.

1975 Monte Carlo, 48,000 miles. One owner. Good condition. $3,500. No. 3 Metz Ct. 684-6439 after 6 PM.

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$253 Down
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FOR sale 1969 Thunderbird, 4-door, hardtop sedan. Padded vinyl roof, tilt wheel and all extras. 87,500 miles. $1050. Call 682-9629 after 7 PM.

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1977 Honda Civic. Automatic, radio, air conditioning, low mileage. Excellent condition. Call 694-8256 after 5:30.

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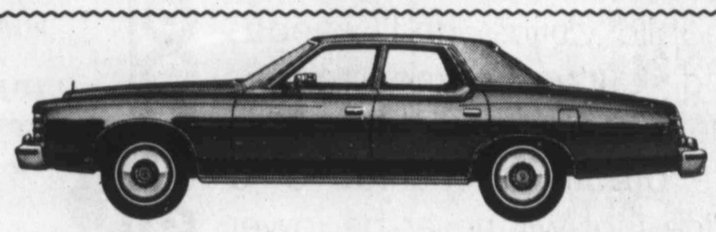

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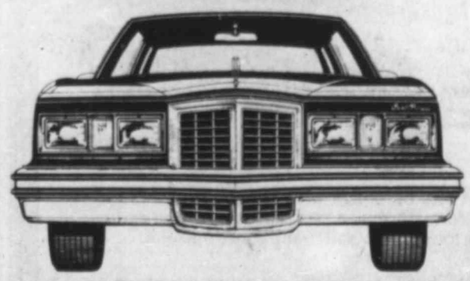

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LOADED WITH OPTIONS

301 V-8, automatic, air, tinted glass, 60/40 seats, power steering/brakes, rally IV sport wheels, cruise, WSW steel belted radials, body side moldings & radio.

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1978 Honda Civic. 9,000 miles. Can be seen at Midland Air Park. 684-6588.

1970 Toyota. $350. 683-2509.

1968 Porsche Targa 912 Classic. For collectors or transportation, good condition. Serious inquiries only. 694-4157 after 6.

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1973 Gremlin, good condition. 694-6528.

1975 Buick Century 4 door. 51,000 miles, automatic, power and air. Call 683-8750, $2600.

1972 Cadillac Limousine, black. Call 694-3038.

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1977 Custom Van Limited. Loaded. $7250. Call 684-7249 or see at 605 North Pecos.

76 Camaro LT. Metallic brown, air conditioned, power steering, 3 speed, low mileage. Excellent condition. 694-4680.

LOADED. 1978 Buick Skyhawk 3 door. Like new, still under warranty. Call 694-6598.

1974 Olds Cutlass Supreme 2-door hardtop. V-8, automatic, all power and air. 694-0584.

1976 Mark IV, moon roof, AM-FM quad tape, leather interior. Sports wheels. Cream color. Call 694-5981.

1970 LTD 4 door sedan. Nice and clean. A very dependable transportation car. See at 1103 Ainslee anytime and make reasonable offer.

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1978 Pontiac Sunbird. Loaded. $5862.53. Call 558-2506, Crane.

1978 Fiat X1-9. Removable top. AM-FM 8 track, 5,000 miles, excellent condition. Must drive to appreciate. Assume payments and small equity. 694-4239.

1975 Toyota Celica GT. GT extras, cruise control, tape deck. 38,000 miles. $3700. 697-3610.

MUST sell 1969 Mustang, good engine and 3 speed. Call Kevin at 684-8901 or 682-1409.

1975 Pontiac Ventura Hatchback. Automatic, power, air, 6 cylinder. 697-4523.

RED 1971 Plymouth Duster Demon, 6 cylinder, 2 door. Make offer or will finance. 694-3518.

FOR sale, 1970 baby blue Buick Riviera Classic. White bucket seats, power and air, tilt wheel. Make offer or will finance. 694-3518.

1977 Corvette. Silver with red leather interior, low mileage. Excellent condition. Call to see, 697-4508.

1974 Capri. Excellent condition. New paint, air. AM-FM 8 track. Call 683-0039 after 6.

1975 Hornet Sportabout station wagon. 6 cylinder, automatic, air, power, tilt wheel, luggage rack. 3219 Camarie. 694-6506.

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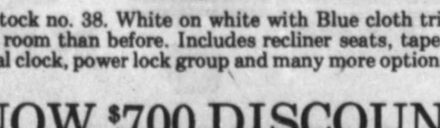

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65 Chevrolet $250. 73 Ford $500. 694-0510 from 8 to 5, 694-5464 after 5.

EXCELLENT condition. 1977 Mark V. Loaded. $11,000. 10,000 miles. One owner. Clean. Call Lee Johnson, 682-7092 or 694-3907.

1974 Pontiac LeMans Sport Coupe. Low mileage, fully loaded. Call 694-8603 after 5, anytime weekends.

FOR sale, 1947 Cadillac. Call 682-2174.

1974 Ford Econoline 200 super van. 6 cylinder, standard shift, heater, AM-FM tape. $2500. Call 694-7681 after 6 PM.

1969 Pontiac Bonneville 4 door. Air conditioned, power brakes and steering. Very good condition. 694-2728.

1976 Buick Limited Park Avenue. Loaded with all the extras. Excellent condition. $5400. Call 683-3621.

76 Grand Prix. $4000. Call 682-6190.

WILL buy VW, running or not. Call 694-4018.

1974 Fiat, air conditioned, AM-FM radio. Real good condition. $1300. 697-5278 after 5.

1975 Monte Carlo 2 door. Bucket seats, 38,000 miles. Dark brown, saddle upholstery. One owner. 682-8552 or 683-9499. $3,920.

1974 Oldsmobile Delta 88. Power brakes and steering, air conditioner, new tires, good condition. $1,900. Call 697-4447.

1969 Rebel. Runs good. $550. 1612 Harvard, after 5. 682-0686.

1977 Econoline 350 Ford Van. Loaded, cruise, factory insulated and paneled. 694-0111.

1974 Plymouth Valiant 4 door, 318 V8, automatic, power steering, no air, 90,000 miles. Make good work car. $875. 683-8476.

41 Miscellaneous | 41 Miscellaneous | 41 Miscellaneous | 41 Miscellaneous | 41 Miscellaneous | 41 Miscellaneous

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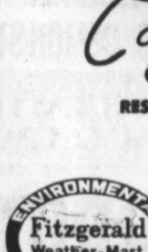

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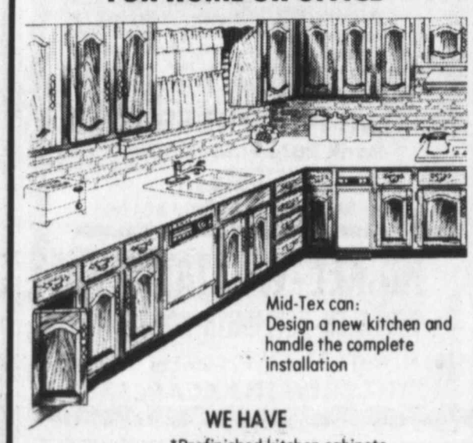

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30 Automobiles

1975 Thunderbird. Loaded, moon roof, low miles, excellent condition. Priced below book. 4312 Harvard.

BEAUTIFUL 1973 Eldorado Cadillac convertible, blue and white, loaded. Call 694-0790.

1974 Grand Prix. Maroon and white, low mileage, good condition. Call 697-1998 anytime.

1965 Mustang V-8. Air conditioning. Best offer over $500, 4312 Cedar Springs. 694-3916 after 5.

1973 PONTIAC BONNEVILLE 4-DOOR HARDTOP
Loaded, new battery, tires. One owner. Well cared for.
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1971 Ford station wagon, top shape, one owner. Nice family car. 683-1049.

1973 Cutlass. Below Wholesale, 48,000 miles, new tires, AM-FM radio. 694-7454.

1964 Chevrolet Impala Sport. Good condition. 1 owner. Call after 5, 694-3764.

1970 4-door Chevrolet. Good condition. $500. Call 694-1912.

1969 Dodge Coronet, $200 cash. 2816 Franklin.

$650. Loaded. New valves, battery, water pump, exhaust. Clean, one owner. 1969 Buick Electra. 683-2990.

FOR sale, 1966 Caprice and 1968 Bel Air, both 327 engines. Both for $350. Call 683-9489.

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1973 Chrysler Newport. 57,000 actual miles, Good condition. Book, $1450. Best offer. 683-8575 or 683-4900.

1952 Chevrolet 2 door sedan, very good condition. Good school car or it will renovate. See at 910 W. Kansas.

1978 Chevrolet Nova for sale, good condition. See at 701 Sprayberry. 694-4829.

FOR sale 1976 Cutlass Supreme. Top condition. 701 Shell.

1975 Chevrolet Caprice Classic. Vinyl roof, power, cruise and air. 697-2844.

1970 VW station wagon. $700. New tires, good condition. Call 682-0031.

1973 Gremlin. X package, 304 V-8, standard, excellent mileage. Must drive to believe. 694-0729 or 4707 Pleasant.

1961 Ford Falcon station wagon, radial tires and air shocks. $200. 697-1057.

1977 Thunderbird. Excellent condition, low mileage, leather interior. Call 683-7969.

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1963 Volkswagen, good condition, recent overhaul. 682-0181.

31 Trucks & Tractors

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1978 Datsun King Cab, blue, long bed, pickup. 5 speed, AM-FM, 8 track radio, bucket seats, chrome bumper, wide tool box, low mileage. Take up payments. 682-0742.

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1976 Ford, long wide bed, 300 cu. in., 6 cylinder, standard transmission, 31,000 miles, good condition. 697-2984.

FOR sale, 1975 Chevrolet pickup, recent overhaul, good condition. $1995. Call 683-0820 after 6 or 682-4919.

1975 Scottsdale. Automatic, power and air. Excellent condition. 697-3933 after 5.

1974 ¾ ton pickup. 454 engine. 694-5111 on Sundays, after 6 on weekdays.

1976 Chevrolet Scottsdale pickup. All power and air, AM-FM 8 track, saddle tanks, headache rack, tool box. $4,200. Call after 6:30, 694-4060.

CLEAN 1975 Datsun pickup. Air conditioned, AM-FM stereo, camper shell. Excellent condition. Good price. 694-6461.

GOOD condition, 1965 Ranchero pickup, automatic transmission, radio, heater and air. Steel belted tires. Will be a collectors item. Last of it's kind. Call after 5 weekdays, 682-8808. Anytime weekends.

1966 Ford pickup, mechanically excellent, good body, good tires. $700 firm. 1411 S. Terrell. 684-5004.

1973 Ford F-250 Ranger, air, power, cruise. 1111 W. Florida or call 684-4963.

1973 El Camino, 350, automatic, power, air, clean and in good condition. $1,875. 694-1432.

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1973 Toyota pickup, 4-speed with Gem Top camper. $1300. 684-5818.

GOOD buy on 1975 Datsun pickup. Radio, air conditioner, wide tires, top condition. 2504 West Kentucky. 682-9032.

1973 GMC pickup. Automatic, power and air, 350 engine. Call 683-8033.

1978 Ford F-150 Ranger Super Cab, Short bed, cruise, warranty, 8,500 miles. $6,700. 367-5679 after 5, Odessa.

1969 ½ ton Chevrolet pickup. 250, 6 cylinder, short and narrow bed. Clean, in good condition. Headache rack, front grill guard. $1,000. 683-1997.

1976 1 ton Chevrolet pickup, dual wheels. See at 2204 Northrup.

1971 Ford ¾ ton pickup. Power and air, with 8 foot cab-over camper. Real nice! ½ mile south of I-20 on Midkiff Rd., right side. 697-4642.

1973 International ½ ton pickup, $1,500. Stutz camper, $400. 450 Farmall, stripper, basket, $1,500. 915-683-3510.

1975 Chevrolet pickup. Good condition. Call 684-7747.

1969 Chevrolet 2½ ton, 18 foot box, power lift gate, 40,000 miles. Good condition. 694-8545.

1962 Chevy ½ ton pickup. $500. 4312 Cedar Springs. 694-3916 after 5.

1977 Econoline Ford van, 1 ton, loaded, cruise, factory insulated and paneled. Real nice. 694-0111.

1965 Ford pickup. Very good running condition. Reasonable. 694-5532.

1974 Ford Super Cab. Loaded, matching camper shell. 109 South Dewberry, 694-4522.

1970 Datsun ½ ton. Looks and runs good. New paint. $1095. 694-2234.

1974 Chevrolet pickup. Call after 6 PM, 362-7460, Gardendale.

1975 Datsun pickup, new tires and recent overhaul. Call 697-4729.

USED pickups for sale. 682-5031 after 5 and weekends.

FOR sale 1975 GMC Jimmy. Automatic, 4-wheel drive, air, good condition, $4200. 694-2786.

1976 CJ-5, super clean, low mileage. Call 694-3921.

1976 K-5 Blazer. Automatic, power and air. Excellent condition. $5800. 697-3933 after 5.

1975 Dodge Ramcharger. Fully loaded. Tape deck, good condition, additional convertible top, extra tire and spare tire rack. 682-9791, 683-7070.

1976 Ford ¾ ton 4 wheel drive. AM-FM 8 track, mud tires, cargo window, camper shell. Low mileage. Excellent condition. 683-3132 after 5.

70 Ford 4 wheel drive ½ ton. 4 speed, $1100. Needs body work, runs good. Will consider trade. Call after 6, 682-6083.

1972 Blazer. Lock out hubs, 10 inch wide tires with spoke wheels. All power and air. Swing mount spare tire, trailer hitch. 52,000 miles, excellent condition. $2950. 697-4315.

1975 GMC Suburban Sierra Grande, 4 wheel drive, dual air conditioners. Excellent condition. Call 694-0054.

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33 Motorcycles

1977 Yamaha 500 Enduro. Only 800 miles, excellent condition. $900 or best offer. 697-4627 after 5:30.

1978 Suzuki GS 750-E. Excellent condition. Extras. Call anytime, 683-5299.

1977 Honda XR75. 1977 Yamaha YZ80 Call 694-4951.

1978 Yamaha 650. $1,475. Call 683-9178.

FOR sale 1978 Yamaha 650 Special. $1800 firm. Call after 5, 683-2686.

1975 Kawasaki 900, excellent condition. And 1975 80-CC Yamaha Chappy. Call 694-7091.

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33 Motorcycles

1977 Yamaha Y2 400 racer. Never raced, mint condition. $1200, call 684-6583 after 6:00.

FOR sale 1971 BMW with fairings, saddlebags and luggage rack. Call or come by 4708 Anetta, 694-3645.

MUST sell 1975 Honda 550-4. Fairing, sissy bar. 3,000 miles. Excellent condition. 683-8460 after 5:30.

FOR sale, one 1976 YZ-100 Moto-Cross bike and one 1977 RM-100 Moto-Cross bike. Both excellent condition. $500 each or best offer. Call 682-9448 for information.

1972 Kawasaki 750 cc. Excellent condition. 694-5282 or 683-7768.

1978 Honda 750 K. Fairing, combination radio, CB, bag and rack. Call after 5:30, 694-4668.

1972 Kawasaki 125. New rebuilt engine. Reasonable. 2307 Brunson, 683-7637 anytime.

1974 Honda 750-4. Low mileage and many extras. 697-3410.

1977 Suzuki GS-750. Can be seen at Midland Drive 66 Station, 4321 W. Illinois.

34 Airplanes

FOR sale, ½ or ¼ Mooney. 697-2389.

SACRIFICE, reduced $2,000. 1974 Piper Warrior. Low time, always hangared. Free flying lessons with purchase. 684-6878.

1975 Cessna Skylane 182. Total time 601 hours. King radios and transponder. Very clean. $28,500. 602-427-3780.

1976 Beechcraft Baron 58P. New engines, King radio package with radar, Century 4 AP-FD. Very nice paint and interior. Full investment tax credit. Call owner. Rich Air Company, 563-2033.

35 Boats & Motors

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17 foot Stern Craft Deep V, 120 H.P. Mercruiser in-out, complete walk around tandem trailer, 694-7130 or 694-5939.

1974 Glastron 15 foot boat. 85 hp Evinrude, power trim and lift. 366-7049 after 4 PM.

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1976 Sea Ray 19 ft. Runabout 233 hp. Call (817) 232-2645.

MUST sell, 1978 Arrowglass bass-ski 15 ½ ft. Lark. Fully loaded. 85 Johnson, Dilly walk-around, cover, skiis included. Take over payments. 697-1162.

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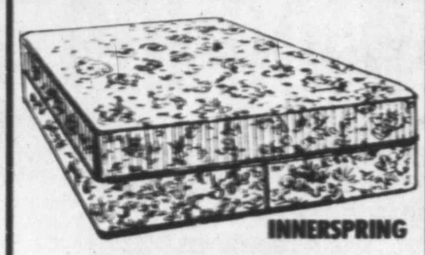

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Lots of glassware, carnival, Depression, 3 faces, art glass, hobnail, oil lamps, crochet table cloth, silk piano cover, silver, picture agate, hull, cruet sets, lots of collectables, figurines, vases, old chandelier, dolls, wooden spool collection, jewelry.
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NO CHECKS

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Owner is ready to sell or has consigned C-City Auction to sell the entire contents of the antique shop. Here is the opportunity to buy at auction some of the finest American glass and oak in the area. We also have some very fine German and Danish pieces. We will be open from 10 A.M. 'til sale time for everyone to inspect the merchandise.
PARTIAL LISTING!
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CLOCKS: Junhans grandfather clock. Large marble clock, over a dozen clocks including Sessions, Ingram, Gilbert, New Haven and E. Mauthe, Gustaf-Becker wall clock. **MISC.:** Aladdin lamp, Bradley & Hubbard lamp dated in 1880's, Calendar plates, state plates, a dated 1913 signed oil painting by S. Solomon, metal strong box, Northwind candy jar, oak spinning wheel.
Many, many more items. Something here for everyone. For info call (915) 728-8292 or (915) 728-3170.
GRADY W. MORRIS, AUCTIONEER. TX-655-019-4334.

PORTABLE BUILDINGS
Custom built, steel on wood. Large inventory. Check our quality & price before you buy!
AMERICAN BUILDING COMPANY
Midland & Odessa 563-2664
STORAGE BUILDING
Life Time Aluminum
8x8 to 12x40
WE'LL DELIVER
CEN-TEX
PORTABLE BUILDINGS INC.
563-0022

SAVE $3,000 ON THESE
CASE 970 TRACTOR & TERRAIN KING SHREDDER
Used just 50 hours. Under warranty
Would trade for articulating loader or diesel truck.
(915) 332-5982 or (915) 366-7810

LA CASITA APTS.
2900 W. Illinois
694-2466
PLANTATION MANOR APTS.
3000 W. Kansas
694-2361
1 & 2 br., furn. & unfurn.
ONE and two bedroom suites and efficiencies. Daily, weekly rates. All bills paid and furnished. No required lease. The Lexington, 1003 South Midkiff, 694-9621.

LUXURY APARTMENT
For adults with discriminating taste. Location ideal for the downtown professionals. Garden and patio area for quiet living. 1 and 2 bedrooms with fully equipped kitchens. Enclosed pool, covered parking. Furnished and unfurnished. 682-1121.
ONE bedroom furnished duplex, downtown area. Restricted to quiet, responsible, mature person. 683-3997, 8 to 5.

PEPPER TREE APTS
Luxury Adult Complex
NOW LEASING
**** Office on Neely ****
2700 N. Midland Drive 694-8182

NOTICE OF ESTATE SALE

WHERE: Warehouse located at Kentucky & Terrell St., Midland, Texas
WHEN: 9 AM to 6 PM, October 14 & 15, 1978
WHAT: Furniture, Miscellaneous. Personal Property
Please Wear Your Old Clothes

BIG GARAGE SALE
Eight foot cab-over camper, standard size typewriter, steno chair, maple poster bed & desk, like new 15 foot upright freezer, 78 RPM records, several coats and lots of good clothes, much more. 3401 Princeton. Saturday 8 til 6, Sunday 2 til 5.

3614 KANSAS
(west off Midkiff)
NO EARLY SALES
Saturday 9-6 Sunday 12-6
Couch, swivel rocker, bedspreads, curtains, drapes, sheets, encyclopedias, riding lawn mower, twin bed, stereo, stereo cabinet, Frigidaire electric range (4 yrs. old), bicycles, end tables, clothes jewelry, decorator items, PHILCO refrigerated air conditioner wall unit, lamps, carpet & pad, adding machine, chair type hair dryer, sleeper sofa.

403 W. Pecan
(Alley in rear. Friday, Sat. & Sun.)
5 pc. French Provincial br. set, matching coffee & end tables, refrigerator, 2 sofas, 2 overstuffed chairs, apt. size stove, small dinette w/4 chairs, Kenmore washer, full size mattress & box spring, 2 twin mattresses & box springs, adjustable bed frame, 10 speed bicycle, 3 mobile home beds. Clothing & misc.

TWO FAMILY SALE
4504 ROOSEVELT
Jewelry, children's clothes 2-14, planters and lots of misc.
Sat. & Sun.
Starts 9 AM

1608 North "C". Friday thru Sunday. Furniture, linens, baby, childrens clothing. Toys, bikes, books, mower, Christmas ornaments, planters.

20 years accumulation. Refrigerator, range, 2 color TVs, stereo, gas space heaters, shell reloader, others. Friday and Saturday, Sunday after 1. 802 South Loraine.

FOUR family backyard sale. Baby bed, every size clothes, TV, dishes, radios, pots and pans, rugs, bedspreads and sheets. 1909 N. Bryant. 683-5009.

GARAGE sale. Starts Friday. 3327 Cimmaron. Coke machine, tape recorder, desk, typewriter, weed clippie, electric edger, dishwasher, ½ inch polypipe, hat rack, miscellaneous.

DON'T miss this one! Furniture, TV, sewing machine, bedding and linens, dishes, baby bed, printing calculator, guitar, gifts, men, women, and children's clothes and shoes, games, one owner Thunderbird automobile. 2304 Gulf.

MOVING sale: Furniture, clothes, saddle, curtains, much miscellaneous. Saturday 8 to 6, Sunday 1 to 6. 2507 Princeton.

GARAGE Sale, two family. Vacuum cleaner, drapes, girls' clothing, many other household items. Friday afternoon, Saturday and Sunday. 1417 Mogford.

GARAGE sale. Ladies and men's clothing, dining set, misc. 2815 Auburn, Saturday and Sunday.

FIRST time garage sale. Couch, chair, lamp, glassware, radios, end tables, coffee tables, shotgun shells and miscellaneous. 3207 W. Kansas.

SALE, SALE, SALE
Warehouse full of almost everything. Saturday & Sunday. ½ mile south of IS-20 on Midkiff Rd. Right side. Furniture, tools, clothes, beauty shop equipment. Riding lawn mower, new gas edger, lots of misc. Everyone welcome.

FOUR family garage sale. Saturday and Sunday afternoon. 4400 Pleasant. Queen size hide-a-bed, children's clothes, all sizes. Small appliances, odds and ends. Glastron boat.

INSIDE sale. Couch, chairs, fireplace, bikes, everything must go. 4309 Pasadena.

MULTI-family garage sale. 9 to 5 Saturday and 1 to 5 Sunday. 2202 Culver.

GARAGE sale. Stove, table, beds, toys, clothes and odds and ends. Saturday and Sunday. 1222 Century.

GARAGE Sale, Saturday and Sunday, 2613 Whitney in alley. Sofa, 4-drawer chest, desk, library table, antique clock, collectables and clothes.

ASSORTED furniture, bikes, clothes, and miscellaneous items. 2209 Neely.

GARAGE sale. Household and clothing. ¾ mile south from Industrial on Cottonflat Rd. Saturday and Sunday.

INSIDE sale. Electric heater, bar lamp, Grecian Urns, curtains, Avon bottles, what nots. 9 to 2, Monday thru Wednesday, all day Thursday and Friday. 2602 Roosevelt.

SUNDAY through the week. Pictures, used appliances, lots of baby items, misc. 2306 West Kentucky.

3212 Durant. 1 PM to 5 PM. Everything half price.

GARAGE sale, Monday and Tuesday only, 8 to 6. 3205 Durant. Baby bed and equipment, household goods, clothing, miscellaneous.

2003 PRINCETON
REAL VALUES!
Deep freeze (chest type), electric waxer, silverware, round glass top coffee table.
10% Discount with this Adv.
WHATS 'BOUT
Now have a good selection of slab rock for picture. We also have variety of frames. Macrame, supplies, and finished to order. Ceramics: supplies, greenware or finished. Mayco colors. Come in and begin your Christmas gifts early. Check about ceramic lessons. Gifts for all occasions. Jewelry: some turquoise, lapidary mountings, cabochons. Also fire agate, cabs and in the rough, geodes and crazy lace agate. Rock tumblers, grit, 6"x8" sanding belts. HAVENS CERAMIC & ROCK SHOP, 2515 W. Ohio, next door to Montgomery Ward. 682-2845.

41 Miscellaneous

ALL types of surplus and freight salvage bargains. 3 blocks West of Big Spring on Florida, Midland Freight and Salvage.

TWIN box spring and mattress, sofa, mitre box and saw. 683-0541, 697-1273.

FOUR channel component stereo. Value $4500. Must sell $2000. Telephone 682-3964.

COMPLETE butane system, Imperial adapter, 100 gallon tank $300, gas heater $5. 694-4498.

BEAUTIFUL macrame hanging tables, decorator colors and macrasculpture hangings for floral arrangements. Call 694-5616 after 6 weekdays.

FOR SALE. One Kawasaki 500, ping pong table, 2 small beds. Small black and white television. 697-2852.

USED carpet for sale. $1 per sq. yd. 58 sq. yds. in gold. 17x24, green. 10x11 and 13x11, green and white. Can be seen at 3302 West Dengar. 697-5311.

WANT to buy fold down camping trailer and hide-a-bed. 682-7301, ext. 423. 682-7600 after 4.

FOR sale, 4 Spanish window frames, and 4 doors. Call 682-2495.

LAYAWAY now for Christmas. Stereos, sewing machines, Kirby vacuum cleaners, guitars, reel-to-reels, TV's, rifles, pistols, shotguns, and many other items. Gold Star Pawn Shop, 3414 Thomason Drive, 694-1181.

COLEMAN Versa-trailer, new, 4x6 with 1000 pound capacity, filt. $290. 694-3530.

TWO Mobile CB's complete. Base station CB complete with antenna. Krendl insulation blower. 682-5031.

DIAMOND ear studs. 1.14 carat Tiffany mount, loose diamonds, 14k gold dinner rings. 915-366-4628.

41 Miscellaneous

GEM TREES
Genuine Gem trees in turquois, coral, mother of pearl and other gems, for sale in 3 sizes. Call:
682-6756 after 6

SINGER TOUCH & SEW
Deluxe model, winds bobbin on machine, zig zag buttonhole & etc. Several left out of public school systems. Desk cabinet with drawer space. While they last $75.00 each.
Sewing Machine Supply Co.
2314 W. Ohio
683-8088

LOW DISCOUNT PRICES
Railroad crossd ties, $6, aluminum window units, $15, antique wood stove. We still have plenty of doors, $3 & up. Stop and shop. Save money on many different items.
C&S Salvage
1810 W. Florida 683-3201
8 to 5 - Sat. 8 to 3

FOR sale one antique safe, one postage meter, one addressograph machine. 694-9170.

FORCED to sell several choice hand made Oriental rugs to settle an estate. Shown by appointment. 694-5085.

WORK BOOTS. 5 to 15, 2 A to 3 E. General Clothing Store, 300 E. Florida.

BAR set; $25. Game table; $75. White coffee table with matching cocktail table; $70. Marble slab, perfect for window sills; 37 ½x40; $40, 30 ½x19; $25. Used carpeting, various colors. 694-0667.

NEW Atlas horse trailer tires, limited quanity, $20 per tire, mounted and balanced free. Duree's Exxon, IS-20 and Midkiff. 697-2751.

BAR-handmade in Mexico, 8 ft. long, $395. Pool table-regulation size, plus all accessories plus ping pong table top and accessories, $325. Ford mags and Desert Dog tires, set of 4, $325. 694-5808.

CROSS ties for sale. $4.25 each. 362-1475, Odessa.

42 Household Goods

GOOD selection of new and guaranteed rebuilt washers, dryers and refrigerators. Merriman Appliance, 506 East Florida, 694-6674.

ONE steel spring couch $200, 2 Spanish chairs $25 each. 682-3332 after 5:30.

TAPPAN gas stove and Frigidaire refrigerator. Both good condition. 563-0569 after 6.

KING size headboard with matching chest and triple dresser. 694-6140.

USED portable dishwasher, clothes washer and dryers, frost free refrigerators, 1 apartment size refrigerator. All guaranteed. Go out South Midkiff ½ mile, South I-20. Phone 694-3773.

ROSEWOOD dining room set with 6 chairs (Modern design). Blue Danish rug, 7 ½x4 ½ ft. 694-0273.

FOR sale, King size bed, triple size dresser and i electric stove. 682-0640 or 682-4232.

GAS dryer, excellent condition, $35. 697-5479 after 3:30.

TAPPAN 30 inch gas range. Self cleaning oven. Excellent condition. Call 694-6507 after 5:00 p.m.

FOR sale: Magnavox console color TV. Large round card table. Call 697-1756.

83 yards gold shag carpet. $2 a yard. Call 694-2747.

7 piece dining set. Excellent condition. Butcher top, chrome legs. Call 694-5798 or come by 3123 Kessler.

42 Household Goods

ATTENTION! Want to buy good trundle bed with mattresses. Call 694-8195 or 694-2735.

TAPPAN gas range $50, portable dishwasher $20, sewing set $10. 697-3410.

FOR sale, 5 piece rattan dining room suite, glass top table, high back chairs with cushions. Excellent condition. Call 697-3369.

CUSTOM white pleated drapery sheers with rods. 2 pairs 9 ft. by 9 ft. and 1 pair 7½ ft. by 6½ ft. Cheap. Mirror, 2x5. Cheap. 694-1405.

VELVET couch, velvet chairs, end tables, lamps, pictures, nylon couch and chair. Sunday all day, weekdays after 6. 3908 Neely. 694-3633.

SOFA and 2 chairs. Good condition. Priced for quick sale. Call after 5. 682-2789.

CARPET, 45 sq. yds, beige, 1 ½ years old, $2.50 a yard. 50 sq. yds. green shag, $2.00 a yard. 13 sq. yds. green sculptured, $1.50 a yard. 682-6247.

ANTIQUE metal bed and dresser, mattress and springs, $50. 694-4338.

FIVE piece living room suite; $150. Complete bedroom suite; $150. Lamps, humidifier and rocking chair. 694-2634 after 5 o'clock Sunday.

WE'VE gone all electric. For sale, a Carrier central heating unit, will heat up to 2,700 sq. ft. floor space. Also fireplace screen, 1 year old. 682-7402.

GAS stove, harvest gold Frigidaire, only used 6 months. $175. Call 683-0813.

WHIRLPOOL freezer, Litton microwave with stand, new New Home sewing machine. 694-7507 before 4.

43 Sporting Goods

FOR sale, new compound hunting bow. Arrows and other accessories available. 682-1535 evenings and weekends.

PRE-64 Winchester 338 magnum. Call 683-0541 or 697-1273.

WINCHESTER Model 670, 30-06 rifle with Weaver K-4 scope and Texan 88-10 12 gauge progressive reloader. 756-2273 (Stanton) after 5.

LAYAWAY now for Christmas. Rifles, pistols, shotguns, holsters, tents, backpacks, Buck No. 110 folding knives. Gold Star Pawn Shop, 3414 Thomason Drive, 694-1181.

COMPLETE set Royal irons and woods (1, 3, 4), Ben Hogan golf bag. All like new. $275. 26 inch 10 speed man's bike with chrome fenders. $85. Call after 6 PM, 694-1490.

DEER rifle, Remington 270 pump, kick pad, scope. 682-7663.

EXCELLENT Deer rifles. Remington 700 ADL 270 caliber with Weaver 4x scope. $165. Call 682-4186.

COLT government model 45 auto. New in the box, $250. Includes one year membership to National Rifle Association. 697-1900 after 5.

RELOADING components, tooling, and several rifles, shotguns and pistols. 2600 W. Washington. 694-9757.

44 Antiques & Art

WILFORD C. PHILLIPS ANTIQUES
Will be open weekends and evenings by appointment only October & November.
694-7396

DIAMOND SOLITARIES
.25-ct. gent's ring, $285
.33-ct. lady's ring, $225
.50-ct. lady's ring, $375
1.10-ct. lady's ring, $1,900
2.00-ct. gent's ring, $2,895
2.10-ct. lady's fine diamond, $5,200
And many more
RED DOOR JEWELRY
2207 W. Illinois Midland 684-4525
BARGAIN time. Square oak dining table with 3 leaves and 4 oak pattern back chairs. 682-3285.

SHOW & SALE
Featuring Depression glass, collectables, primitives, small furniture. Oct. 20-21. Plaza Cafeteria, 1613 County Rd. West, Odessa, Texas. Door prizes-no admission.

45 Musical Instruments

FOR sale: Lowery 2 keyboard organ with rhythm, plus lower pedals, Hawaiian guitar plus other features, nearly new. Bench included. 697-1279.

FOR sale. Like new Gemeinhardt open hole flute. Excellent condition. 694-7998 after 5:30.

GUITARS and amplifiers for sale. Fender, Gibson, Yamaha and Sunn. 682-7077 after 6.

BEAUTIFUL Baldwin organ. Practically new. Will sell at a bargain. 694-1382, 694-1557.

YAMAHA YAS-21 Alto Saxophone. Like new condition. Call 694-6507, after 5:00 p.m.

FOR sale, silver flach cornet, completely redone, like new. Call 684-4938.

FENDER deluxe reverb amplifier and Fender guitar. Shure mike and stand included. 694-6748 after 3.

GIBSON hollow body single pickup electric guitar. Very best quality, with case. like new. $300 firm. 694-7937.

47 Good Things to Eat

APPLES for sale at 2700 Roosevelt. Call 697-3489.

50 Office Supplies

DESKS, chairs, files, safes. Save 20-50 percent. Cash and carry. Large selection. Value City, 800 N. Texas, Odessa. 337-5479.

SECRETARIAL and executive desk plus chairs, excellent condition. See at 4202 Harward.

OFFICE desk, antique partner's desk, oak school desk and metal secretaries desk. Several sets of side chairs, swivel chairs. Call 682-5667.

52 Air Conditioning & Heating

80,000 BTU gas central heating unit for sale. Good condition. Call 697-1412.

53 Building Materials

BLOWING wool insulation for sale. 54.50 bag plus tax. Call 683-7221. After 6 PM, 684-6843.

FOR sale: new all steel 24 gauge building. One 30x50x10, one 40x50x14, one 50x100x16. Call 888-795-4139 or 806-647-3245.

54 Portable Buildings

PORTABLE building, 10x24, finished out, $2,500 and you move. 694-9784, 3906 Roosevelt.

55 Machinery & Tools

AUCTION
LOADERS-DOZERS-GRADER-TRUCKS-
WADE DIRT Contracting Co.
5717 KINGSTON
ODESSA, TEXAS
FRIDAY - OCTOBER 27
10:00 a.m.

LOADERS:
1972 Hough Payloader H65, 2 ½ yd., art.
1970 AC 645 Loader, 3 yd.
1959 AC H36G Crowler Loader, 1½ yd.
1959 Michigan Loader, 125-A, 2 ½ yd.

GRADER:
1972 Galion 118 Motor Grader, (Unit)

DOZERS:
1963 AC HD11E Dozer, 11000 Turbo Charged
1956 CAT D-7, Series C, diesel

TRACTORS-TRUCKS-PICKUPS-
1975 Chev. 10 Pickup
1975 Ford F150 Pickup
1974 Ford F250 ¾ w/Skid Utility Bed
1974 Chev. 1 T. Pickup
1972 Ford 3/4 T. Pickup
1971 Ford F100 Pickup
1969 Chev. 50 Dump Truck, 5 yd.
1969 Chev. 60 Tractor
1969 Ford 600 w/Vac Tank & Pump
1969 Ford 950 Tractor
1968 Chev. 50 Dump Truck, 5 yd.
1966 Ford 750 Tractor
1965 Ford 100 Pickup
1963 Chev. 60 Tractor
1955 Chev. 6400 Water Truck, 1,000 gal.

OTHER EQUIPMENT:
Massey Ferguson Tractors, 302 & 35
Trailers - Air Comp. - Grace 3ht Drum Sheepsfoot - 6 Tampers, Beam, Wacker & Wacker - 1959 Tampo Roller, 9 wheel - 2 Dozer Ripper Tooth - 8' Bros Rake - Drill Press - Welder - Much More!

INSPECTION: Thurs. Oct. 26, 10:00 a.m. to 5:00 p.m. - TERMS: Cash or Cashier's Check. Personal or Company Checks MUST be accompanied by Bank Letter of Guarantee. Tx-655-019-0275

For Brochure Contact:
Ernest St. Clair
AUCTIONEERS
4101 WEST 34TH
AMARILLO, TEXAS 806/353-1503

ONE ton Chevrolet truck, 1976, 26,000 miles, with welding bed, 200 amp Lincoln welder. Also, several used 200 amp Lincoln welders. Plains Welding Supply, Plainview, Texas. (806) 293-1391.

CLARK 3000 pound forklift, pneumatic tires, model C500Y 30. 683-3353.

SURPLUS CENTER
819 BROADWAY
LUBBOCK, TEXAS
(806) 763-1641
Heavy Duty Makita right angle grinder $110, ⅝ inch floor model drill press with motor $285, Rockwell Mitre box saw $199.95, 1½ ton chain hoist $95, 2 HP electric air compressors $299.95, 14 inch Makita cut off $199.95.

56 Oilfield Supplies

HIGH pressure washer, trailer mounted, 2000 P. S. I. 3000 watt alternator, kerosene burner for heat, to 200 degrees. These units are for washing. Pump jacks, trucks, tanks and etc. All new. 393-5225, Big Spring.

57 FARM EQUIPMENT

FOR sale: Farmall Super M tractor, with equipment. Excellent shape. 683-2853.

FOR sale: Farmall SM tractor and equipment. Call 683-2853.

HESSTON 24-A cotton stripper with raw sensors. Mounted on 560 International tractor. 682-2478.

GEHL LT-8000 Tandem Trailer
Excellent condition, with electric brakes. 4 ton maximum capacity.
CALL 694-0438

58 Livestock, Poultry

FOR sale: Registered quarter horse mare. Gentle for experienced rider. Call Craig, 694-7337.

5 year old registered quarter horse mare, 15 hands. Gentle for anyone. $600. Call 682-9731 Ext. 171 or 697-5028.

SMALL paint Mustang mare, four years old. Green broke. Call 683-8976 after 5.

120 Running Bred Quarter horses and Thoroughbreds. Best bloodline. Nights, (915) 758-2065, Wayne.

TWO extra large thoroughbred yearlings by Special Dunce, extra beautiful, one filly, one colt. Prime prospects for race or show. Grandview, TX., (817) 866-2398.

YEARLING Sorrel Filly, AQHA registered. Beautiful athletic build. 15.2 hands. Excellent speed or performance prospect. 683-6382.

59 Pets

NEED stud AKC English Bulldog as soon as possible. Call Odessa, 366-5019.

PETS GALORE
(In the Village)
Now's the time to lay-away your aquarium for Christmas. Large supply of pet sweaters. One Miniature Schnauzer for sale. New shipment of fish. Come in and see us for your every pet need.
684-7394

CHAMPION English Bulldog stud service. Call 697-2970.

DOG grooming, by appointment. Reasonable prices. Call Karen, 683-5848.

AKC Cocker Spaniel puppies. Champion bloodline. Healthy and loveable. Visa and Master Charge welcome. 694-5085.

AFGHAN Hounds for sale. 14 weeks old. Black with brown markings. $75 each. 705 W. Dormard. 682-9595.

ENGLISH Springer Spaniel puppies, AKC registered. Excellent pets and hunters. 697-1053 after 5.

PART German Shepherd puppies to be given away. Call 697-4948 after 6.

BEAUTIFUL red Toy Dachshund puppies. 7 weeks old. 563-0847, 697-1714.

AKC registered Chow-Chow puppies. Female, $100. Male, $150. Call 697-3576.

AKC registered Sheltie puppies (miniature Collies). Tri-colored. 550-2495, Crane.

REGISTERED Weimaraner puppies, male and female. Call 806-237-6493.

AFGHAN puppies, blondes and whites. Championship bloodlines. 563-3930.

REGISTERED Doberman pups for sale. Black and rust. Call after 6 PM, 683-7962.

NEED good home for female Rat Terrier. Call 694-0151.

THREE AKC female Pomeranian puppies, 10 weeks old. Call 682-3816.

FREE cute kittens. 3320 Camarie. 694-1797.

AKC male Maltese with pedigree champion bloodline. 6 months old. 694-0488.

FOR sale: purebred Doberman puppies, 8 weeks old, good temperament. Call 694-3678 after 6 o'clock.

FOR sale AKC registered English Springer Spaniel puppies, 367-5013, Odessa.

AKC Great Dane puppies, one male, one female. $100. Call 683-8256.

59 Pets

SIX months old male, shorthaired cat, to give away, housebroken. 697-2688 after 5, and weekends.

8 weeks old. Registered white German Shepherd puppies. 263-3663, Big Spring after 5 PM.

7 kittens to give away. 2 black and 5 gray. 694-0914.

AKC Doberman female puppy. 10 weeks. Ears cropped, all vaccinations. Call 683-8660.

BEAUTIFUL blue merle and black Australian Shepherd puppies. Registered, 2 months old. Stock dog instinct. Ideal pets. 694-8524.

12 week old Saint Bernard, female, $75. Call 685-1940.

TO give away to good home. Cute playful puppy. Call 697-1708.

AKC Cocker Spaniel female pups. 2 only. Buff color. Very cute. Call 697-4403.

FREE, 4 beautiful kittens, 3 yellow and white. One calico. 694-8752.

WANT to buy toy male Pomeranian, 6 months to 1 year old, weighing not over 4 pounds (no black). Phone 655-4704, San Angelo.

60 Furnished Apartments

FURNISHED APARTMENTS TALL CITY APARTMENTS
1506 Garden City Highway
ALL BILLS PAID
$30.00 to $35.00 Per Week
Phone 683-6459

ONE and two bedroom suites and efficiences available. Daily, weekly rates. All bills paid and furnished. No required lease. The Lexington, 1003 South Midkiff, 694-9621.

FURNISHED efficiency. Refrigerated air, carpet, newly redecorated, convenient. $185 month, bills paid. Deposit required. See at 910 W. Kansas after 6 PM.

THE Lexington APTS.
and MOTOR INNS
"A Day Or A Lifetime"
1003 S. Midkiff
694-9621
No Required Lease
All Bills Paid
Daily - Weekly - Rates
Heated Pool - Laundries
LOCATIONS
Amarillo, Arlington, Austin, Canyon, College Station, Del Rio, Denison, Euless, Grand Prairie, Greenville, Hurst, Irving, Killeen, Lubbock, Midland, Pampa, Plainview, San Angelo, Temple.
GROWING WITH THE GREAT SOUTHWEST

61 Apartments Unfurnished

★★ Really live at the GREENHOUSE ★★
It's got a lot growing for it
Efficiencies 1&2 Bedroom STUDIOS
Fireplace, washer & dryer connections
NEW SENSUOUS APARTMENTS
3212 W. WADLEY 697-3121

2 & 3 BR. GROUND FLOOR & TOWNHOUSES
Luxury apartments with fireplaces, washer, dryer connections, private patios & covered parking. Adjacent to schools & shopping.
2100 W. Wadley 684-7884
FOR LEASE
New 2 and 3 bedroom duplexes. 2400 block W. Wadley near Oak Ridge Square and College Den. Fireplaces, stove, dishwasher, washer and dryer connections. Lots of storage. $300 deposit, $475 or $500 per month in advance.
CALL MS. CHANDLER, 682-6311 OR LEAVE MESSAGE, 683-5651
CHATEAU
Fireplace, private patios, electric kitchens, refrigerated air, covered parking, swimming pools.
Convenient to shopping
1,2,3 Bedrooms
Bills paid
1603 MIDKIFF 694-1112

2 bedroom, 2 bath. Adults only. Hyde Park Apts., 3339 West Wadley, 697-4589.

WINDSOR PLACE APARTMENTS
Adults-No Pets
NOW TAKING APPLICATIONS
3801 N. Midland Dr. 694-6480

THREE bedroom duplex, 2 baths, dining room, built-ins, fireplace. Yard maintained. Water paid. $425. 694-8548.

TWO bedroom duplex, two baths, dining room, all built ins, fireplace. Yard maintained. Water paid. $400. 694-8548.

61 Apartments Unfurnished

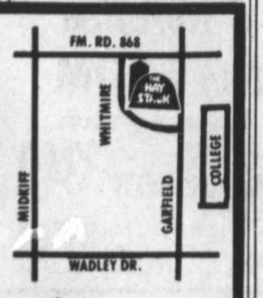
COURTYARD COURTYARD

PHASE II
Now Leasing
- One & Two Bedroom
- Unfurnished
- Washer & Dryer Connections
- Fireplaces
- All Adult Living

82 New Units
COURTYARD APTS.
2300 North A 682-3831

62 Apts. Furn, Unfurn

Sleep in a Haystack



It's got to be soft living at a budget price. The "good life." Great for people just moving into the area. Look at the Haystack extras...2 pools, 5 tennis courts, saunas, 3 laundromats and unique Silo Clubhouse. Carpeting, drapes, appliances central air conditioning, and over-sized walk in closets. Conveniently located in one of Midland's best locations, near great shopping. All adult. So don't be needled by high rent. **Come sleep in a Haystack. 1 bedroom from $195 and 2 bedroom from $240.**

THE HAY STACK
ADULTS ONLY
2438 WHITMIRE BLVD.
683-5558

79 Open Houses

OPEN HOUSE

Greenwood Acres — 3 to 5

(North from Greenwood School)

Beautiful new home. 3 bedrooms, 2 baths, 1 living area, formal dining, double car garage, lots of extras.
On 2 Acres with 2 Water Wells **$79,500**

Shown by Joy Craddock

MONARCH REALTORS

63 Apartments Unfurnished

NEW luxury duplex, 4811 West Illinois, 3 or 2 bedroom, 2 bath, fireplace, electric garage opener, private patio and courtyard. $675 to $525 monthly. Immediate occupancy. Call 682-2541 or 697-4000.

NEW DUPLEX
4239 Siesta Lane

Unfurnished, extra nice, with stove, refrigerator, dishwasher, disposal, 2½ baths, sunken living room with fireplace, enclosed patio, covered carport with large storage area. Business hours, 563-0861. All other times call Kerbill, 586-3340.

63 Apts. Furn, Unfurn

APARTMENTS for rent, $210 month. Call 682-9261.

63 Houses Furnished

ONE bedroom house. Older employed person. No pets, no children. $150 monthly, $75 deposit. References required. 684-5385.

CLEAN, 2 bedroom furnished house, fenced yard. Available October 16th. $95 deposit, $300 monthly. No bills. Couple preferred, no pets. See at 1301 S. Johnston.

FURNISHED 2 bedroom mobile home, adjacent to Midland Country Club. $250 per month, first and last months payment required plus deposit. Minimum 6 months. Garbage service, water furnished. 694-6293, 683-3321.

63 Houses Unfurnished

Large 3 bedroom, 1 3/4 bath, 2 living areas, 2 car garage. Bay windows. Lovely yard. Fantastic neighborhood. Near Lee and Bush. $250 deposit, $500 month. No pets. Available November 1st. Call:

694-6110

3-2 with refrigerated air, all built-ins and fireplace. Lovely landscaping, dog run, close to schools. $575 month. Prestigious North side location. 6 month lease plus deposit. Call:
CENTURY 21
LaCasa Realtors
683-6336

LOVELY

3-2 unfurnished home on Normandy Court for lease, only $500 per month. All the amenities. Close to schools.

Call Carmella Dutton 697-5524
Monarch Realtors 683-4882

3 bedroom, 1¾ bath, 2 car garage. All built-ins, refrigerated air. $250 per month. For information call, 683-6832.

FOR lease. Available November 1st. 3 bedroom, 2 bath, swimming pool. $500 per month. Call Sally Atnipp, Associate, Adobe Realtors, 682-7045 or 699-9548.

LEE, Alamo, Bonham. 3, 2 brick, den, fireplace, office, kitchen with dining area. Carpeted, drapes, fenced. 694-2875 after 2 PM.

64 Houses Unfurnished

THREE bedroom house for rent, located at 3411 W. Wadley. Den, fireplace, double garage, utility room. $500 month, $500 deposit with one year lease required. Call Ms. Chandler at 682-6311 or 683-5651 for appointment.

3 nice-sized bedrooms, 2 full baths & ½ bath, formal living-dining, extra large den, utility room. Large home situated in nice area $650/month (first & last month payable in advance with $300 damage deposit). TALK TO Don Harvey, Realtors, 683-5333.

FOR Lease 3 bedroom, 2½ bath, refrigerated air, double car garage, fireplace, one living area. $600 a month, $300 deposit. House and House Realtors, 694-8834 or 682-7151.

2 bedroom, $250 per month, $100 deposit. Pay own bills, no pets. Must have local references. 683-2423.

NICE 2 bedroom for mature adults. No children or pets. $275. Boles Rental Agency, 684-6982.

ONE year lease for lovely Midland home, 3 bedroom, 2 bath, den, fireplace, patio, appliances, 2 car garage, shop out back and water well. Call Apartment Locaters, 332-0704.

NEW house for lease. 3 bedroom, 2 bath, 2 car garage, fireplace, refrigerated air. $485 monthly, $300 deposit. Cuthbert near Midland Drive. 694-6389.

2 bedroom house near downtown. Please call 682-7377 for information after 5.

3 bedroom partly furnished, 811 W. Griffin. Bills paid. Call 683-8477 or 683-5073.

NICE house in Stanton. 2 bedroom, attached garage. Couple only or 1 small child. References. Call 267-7897.

AVAILABLE November 1st. Large duplex, 2 bedroom, 2 bath, Fireplace, washing connections, enclosed garage. 684-7507.

YEAR lease. 3 bedroom and den. No pets. 2 children. First and last months rent and $85 deposit. $200 per month. 684-0010.

NEW carpet throughout. Professionally cleaned. 3, 2, 2. Fireplace, refrigerated air. Near Lee. $450 per month. $300 deposit. 6 months lease. 694-7876.

FOR sale or lease, 3 bedroom, 2 bath home on 2 acres in Stanton. Call 694-5749.

HOUSE for lease. 3 bedroom, 2 bath, water well in yard. Call after 6, 683-9329.

3 bedroom, 2 bath, living room. Den, kitchen combination. Fireplace, fenced. $350 monthly, $200 deposit. 684-4374.

THREE bedroom, 1¾ bath, refrigerated air, den. $365 monthly, $300 deposit. No pets. 3911 West Illinois, 694-9853.

YEAR lease, 3 bedroom, 1½ bath, 694-7922.

66 Bedrooms

BEDROOM for rent in new home. Private bath, entrance and parking. Convenient location. References required. Phone 682-2241 or 694-1393.

BACHELOR quarters. Strictly private. Twin beds, refrigerator, all linens furnished. 1202 S. Main.

67 Mobile Homes for Rent

THREE bedroom trailer, 12x65, $250 a month, $100 deposit. Greenwood school district. No pets. Also 10x50 trailer, $150 month, $75 deposit. No pets, water furnished on both. 683-4384.

ONE bedroom mobile home for rent. Single or couple. Call 684-7908 after 5.

14x80 3 bedroom, 2 bath. Located in Airline Mobile Park. Call after 5:30 on weekdays, 694-1077.

2 bedroom unfurnished mobile home for rent. Call 683-5902.

NICE three bedroom, one bath in country. Water furnished. No inside pets. Unfurnished, $225 per month. Furnished, $250 per month. 684-7625.

68 Mobile Home Space for Rent

MOBILE space, water furnished, chain link fence, carport. Adults only. Ponderosa Park, Cottonflat Rd. 694-0909.

69 Business Property--Office Warehouse for Rent

TRAFFIC IS HERE
4,000 sq. ft.
in the Village.
RONALD JAMES, REALTOR
682-0581

WANTED STORAGE SPACE
Approximately 1,000 square feet for November and December.
CALL 683-3811

1 office for lease in Permian Building. 683-0031.

LEASE or rent office or retail space at Lamesa Road and Scharbauer Drive. Approximately 1100 sq. ft. $200.00 per month. Owner pays water. Call Houston (713)686-7604.

TWO offices for rent in complex consisting of three nice offices, reception area and file room. Located on main floor of Wall Tower West. 682-4321, weekdays 8 to 5.

DELUXE TOP FLOOR OFFICE SUITE FOR SUBLEASE
2545 Sq. Ft.
14th Floor, Gihls Tower West. Available November 1st. Nearby parking, if desired. 683-4853.

PIPE yard or contractor storage yard. Will lease 1 to 18 acres. 682-6583.

MID-America Building. Two 1,000 sq. ft. suites to be decorated for tenants needs. Large single office. 682-1344.

80 Houses for Sale

Chandelle is a Nice Place to Call Home...

WHY BUY A CONDOMINIUM?

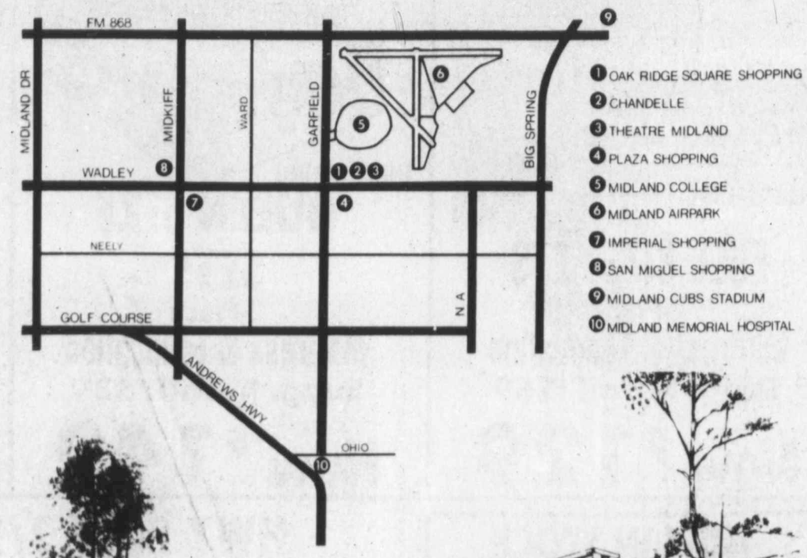
Condominiums afford quality living in prime locations. They allow the owner all the financial and tax advantages of owning a home without the headaches.

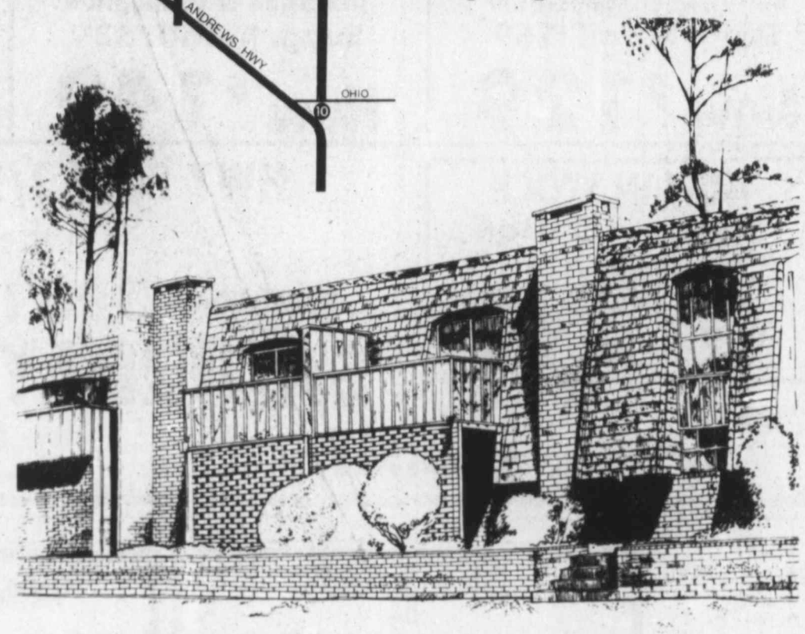
Condominiums are designed for a more flexible lifestyle. Most important, you have greater control over your housing costs when compared to renting.

WHY BUY A "CHANDELLE" CONDOMINIUM?

"CHANDELLE's" location at 2100 West Wadley is within minutes of downtown, theatres, recreational areas, shopping, restaurants, schools, churches, the college, and Airpark. At "CHANDELLE" you get an equity investment, the same tax breaks as a home owner, and greater control of your housing costs. "CHANDELLE" is the only real alternative people have to get away from the maintenance problems of home owning, and doing it with style.

Come out to 2100 West Wadley or call 684-7884 to find out why "CHANDELLE" is a nice place to call home. Models are open from 12:00 noon until 6:00 p.m. seven days a week.





Chandelle
A Winston Property
"CHANDELLE is Elegant Living"

FOR FRIENDLY SERVICE
908 W. MISSOURI
STOP T.C. TUBB REALTORS
682-2504

HOMES

2 bedroom, 1 bath on ¾ acres, off Warren Rd.	$27,500
Two story, 3 bedroom, 1 bath on 7 acres	$35,000
3 Bedroom, 2 bath on 5 acres. SE of Midland	$40,000
3 Bedroom, 2 bath, den, dining & living area. Numerous improvements 40 acres	$120,000

LAND

1.71 acres Co. Rd. No. 1140N.	$5,400 Total
215 acres in Greenwood Community	$750 per ac.
19 acres on Co. Rd. No. 1140S	$1,500 per ac.
23 acres, 7 miles S. on Tower Rd	$1,500 per ac
Small acreage off IS-20 and Tower Rd	$1,500 per ac.
22 acres on Co. Rd. No. 1140N. .Nice subdivision	$1800 per ac.
Small acreage on Andrews Hwy	$2,000 per ac.
10 acres on F.M. No. 715 in 2-2½ acre tracts	$2,250 per ac.
33.47 acres of land & improvements	$102,980 Total
2700 & 2702 W. FRONT AVE. Vacant lots	$33,000
TOWER RD. Small acreage	$1,500 per ac.
PENWELL, TX. 573 acres grassland	$250 per ac.
215 acres Greenwood Community	$750 per ac.
85 acres East of Midland.	$1,500 per ac.
S. of Midland, 28 miles. 650 acres irrig. farm, 3 bedroom home	$750 per ac.

FOR ALL YOUR REAL ESTATE NEEDS, CALL:

John Luccous, GRI 694-7033	Addie Blissard 682-2189
T.C. Tubb 684-5229	Charlie Sprayberry 682-6087
Bob Connor 694-3028	Doris Blissard 682-2189

69 Business Property--Office Warehouse for Rent

DOWNTOWN OFFICE
Space at $5.50
least 1/2 of 2nd flr. or
3,624.8 sq. ft
619 BLDG at 619 W. Texas 682-5307

COMMERCIAL BUILDINGS
in prime industrial location for sale or lease. Large shop area, spacious offices, & caliched yards. 25 acres available for development to meet any business needs. Call 563-2639 or 362-5179.

FOR rent, single office space. 605 W. Ohio. 682-8571.

1500 sq. ft. metal building and 3,000 sq. ft. metal building. Call 684-6216 or 682-3177 after 5.

ONE room office space with parking for rent. Call 682-5307 or 697-4276 after 6.

69 Business Property--Office Warehouse for Rent

MOBILE OFFICE UNITS
FOR SALE OR LEASE
INCLUDES
Heating & Combination Refrigerated air conditioning
$17.00 Per Sq. Ft.
OFFICE UNITS CAN BE SPECIAL ORDERED
CALL
Jim Martin
563-0770

OFFICE space for rent on North Big Spring. Call 682-8221.

OFFICE space downtown, 1400 sq. ft., with ample parking. Call 683-5253.

REALTOR® WILLIAMS & ASSOC. MEMBER MLS
4305 W. Illinois
694-9663

NEW HOMES...
...in Midland's newest subdivision...Superior. 1600-2000 sq. ft. We have several lots and plans and one under construction. Call for details.

RESIDENTIAL & SUBURBAN

THORNRIDGE—3-1¾-1. One side of 2 car garage is workshop and extra room or could be converted back to garage. Lots of new carpet, paint and beautifully remodeled kitchen	MID 30's
ROOSEVELT—3-1¾-2. Just listed. Sunken living area, separate utility room and den area combination. Nice carpet and paint. Vacant for new owner	MID 30's
GOLF COURSE RD.—2-1, A huge lot 105' x 144'. House could be added on to or moved and lot redeveloped. An excellent buy in the upper 20's.	
2-1-2, GARDEN CITY HWY.—Midland Schools. Clean, attractive cottage on 0.6 acres; pens, garden area	$25,900
KANSAS—Duplex lot off North "A" St. Includes slab and rough plumbing-need someone to complete construction. Plans in office	$8,000

COMMERCIAL & FARM & RANCH

NO. BIG SPRING ST.—Prime lot close to downtown, zoned LR-2. Ideal for restaurant or office building. Corner lot 150x140-Call David Howard.	
GREENWOOD AREA—20 acre horse farm with 12 plumbed stalls and 230x100 roping arena. An excellent buy at	$35,000
10 ACRES—Located 1½ miles from Greenwood School. Pavement frontage on Co. Rd. 1090. Cased water well-might go Texas Vets	$15,000
2½ ACRES—Excellent building site on Co. Rd. 60 E near new houses. Good water area.	
OFF GARDEN CITY HWY.—4.166 acres zoned C-3. Great location near I-20 overpass. Ideal for pipe yard	$16,500
RETAIL BUSINESS—In one of Midland's busiest Northwest Shopping Centers. For details-talk to David Howard.	

David Howard 694-4549	Mary Colter 697-4549	Nancy Witten 694-3055	Fran Harger 682-8888	John & Jan Williams 684-4233

MULTIPLE LISTING SERVICE
NATIONAL RELOCATION ASSOCIATION

69 Business Property--Office Warehouse for Rent

LEASE 1,600 sq. ft. shop building. 2,000 sq. ft., last used for pawn shop. 694-1432.

DOWNTOWN SMALL OFFICE BLDG.
All new & beautiful. 2,000 sq. ft. on first floor, 750 sq. ft. on second floor. 5 car parking in rear.
682-8334 217 N. Main

71 Hunting, Fishing Leases

ATTENTION DEER HUNTERS
Excellent deer, turkey and Javelina hunting at Ozona (some bow hunting) for families or corporations. Call Mr. Musgrave at 694-9983.

70 Recreation & Resort Rentals

RUIDOSO cabin for rent, Day, week or month. 6 bedroom, 2 bath. Call 694-3351.

71 Hunting, Fishing Leases

DAY HUNTING
Whitetailed deer, turkey & gavelina. Nov. 18-19, Nov. 25-26, Dec. 9-10. For more information write or call: Charles Taylor, Box 918, Sonora, Texas 76950. Phone 915-387-3168 or 915-387-3237.

72 Oil & Land Leases

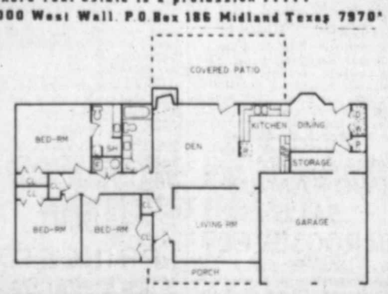
WE buy producing royalties, minerals, overrides. Martin, Williams, and Judson, 413 First National Bank Building, 682-5216.

PAY highest prices for producing royalties. Navarro Royalties Co., Box 141, Midland, Texas. (915) 682-0509.

1000 Acres for lease in Brown County. Odessa, 333-2994.

INDIVIDUAL would like to buy small producing oil royalties. Call 366-7994.

JACK MOGLE Realtors
915 683 1808
Where real estate is a profession .....
2000 West Wall. P.O. Box 186 Midland Texas 79701



FRESH ON THE MARKET: A nice clean brick home located on a quiet street with a pretty landscaped yard. Refrigerated air, fireplace, built-in kitchen and a covered patio plus a gas barbecue grill. $57,250. Call Mary Jo

BEAUTIFUL YARD: A 3 bdrm., 2½ bath, & den brick home in a good location. Has a fireplace, built-in kitchen and a large utility room. Also has a separate storage bldg. Large shade trees. $59,900.

LARGE GLASSED-IN SUNROOM: 3 bdrm., 1-¾ bath & den brick home with a built-in range & oven. Separate outside storage bldg. Owner will consider selling on FHA terms.

JUST LISTED: 4 bdrm., 1-¾ bath & den home located on approx. 2 acres of land, water well. To be sold in "AS IS" condition. $36,000. Call Wanda Hines

ONLY $600.00 DOWN: will buy this 3 bdrm., 2 bath, 1 living area home. Selling on FHA terms at FHA appraised price of $18,500. Call John

WEST TEXAS: Close to downtown. Vacant lot zoned MF-2. $37,500

LOTS OF LOTS: 7 vacant lots for sale as a package. Zoned LR-1 & 1-F-2. All for only $6,500.

APPROX. 157. ACRES: of unimproved land located north of Midland close to Midland Country Club. $550,774.

COMMERCIAL LOCATION: complete with a nice concrete block building with a large fenced area in the rear. Parking available in front. $59,000.

ZONED C-3: ¼ block of vacant land located on busy thoroughfare near downtown Midland. $40,000. Call Goodrich

AFTER HOURS CALL

John Underwood 682-9378	Wanda Hines 694-5170
Mary Jo Drury 684-4268	Myrt Stovall 683-8134
Carol Henson 682-8858	Goodrich Heil 694-5790

Dixie & Jack Mogle ... 684-4856

72 Oil & Land Leases

72 Oil & Land Leases

THE ESTATE OF R. N. BEAKLEY
will be sold by the trustees at
PUBLIC AUCTION

The estate consists of 39 tracts of productive and non-productive minerals and overriding royalty interests located in the following counties in Texas:

CRANE, CROCKETT, FREESTONE, GLASSCOCK, HOWARD, PECOS, REEVES, TERRY, UPTON, WINKLER.

The interest will be sold without reserve at PUBLIC AUCTION in approximately 40 different parcels at Brownwood, Texas, on Tuesday, November 21, 1978.

For a detailed list of the properties, production lease information and auction information, contact:

MRS. NADINE BEAKLEY, TRUSTEE
ROUTE 1, ROCHELLE, TEXAS 76872
PHONE (915) 463-5591

80 Houses for Sale

TO BE SURE YOUR SALES MESSAGES GET IN BUYERS HANDS. USE —

WANT ADS

DIAL 682-6222

NOBODY READS SMALL SPACE ADS... DO THEY???

78 Mobile Homes for Sale

A-1 INC.
Mobile Homes

1972 - 14x76 WAYSIDE 3 bedroom, 2 baths, carpet, drapes, furnished.

1970 - 14x68 BROADMORE 2 bedroom, 1 bath, front kitchen model. Furnished and in excellent condition.

1962 - 12x52 AMERICANA 1 bedroom, furnished, built to last, insulated well.

CALL
Doug Harvey
Butch Duncan
Rich Thacker
AT

A-1 INC.
4120 W. WALL
694-6666; 563-0543

Quality & Service — Lancer Graham
Magic Living Mobile Homes
2660 E. 8th Odessa
337-4444
"Quality Doesn't Cost-It Pays"

1976 14x72 Graham. Super condition. $1,200 equity, take up payments. 684-9907.

REPO, $350 down and assume payments, $133.61. Or $3,500 cash. 563-0878.

WHY pay rent when you can invest in your own mobile home with monthly payments of only $130 per month. 3 and 2 bedrooms available. Free delivery. Call 563-0649.

NEW and used mobile homes. We arrange financing with small down payment and affordable monthly payments. Will trade for anything of value for down payment. Free delivery and set up. Call 563-0649.

DEALER repo, 14x80, 3 bedroom, 2 bath with factory discount of $3,000. Still in warranty. Because of factory discount, small down payment is all required, with affordable monthly payments of $179 per month. Free delivery and set up. Call Harold, 563-0770.

2 and 3 bedroom mobile homes with affordable down payment of $500 to $800 down with monthly payments of $130 to $170 per month according to which suites your budget. Call 563-0770.

1969 Champion 2 bedroom. Good condition. To be moved. Take up payments. Call 682-9109.

USED 12x60, 2 bedroom, 1 bath mobile home. $500 down and balance financed with good credit. 563-0879.

1972 12x60, front kitchen, 1 bath. $700 down and balance financed with good credit. 563-0879.

CLEARANCE sale on used and repo mobile homes. 2 and 3 bedrooms available, no equity, Pay transfer fees and assume loan, free delivery and set up. Good, little or no credit, we can arrange financing. 563-0770

1977 Broadmore. 14x64, refrigerated air, completely set up. Equity buy. Call 694-7062 or 684-6732.

1977 Wayside 14x70. Three bedrooms, two baths, central air, storage building, metal porch, masonite siding. $3,500 equity, take over payments $220. 694-2623.

HENSLEE 14x65, 2 bedroom, 1½ bath. Partly furnished. Call 682-3790.

14x72, 3 bedroom, 2 bath mobile home on ½ acre in Gardendale. Call after 6 PM, 362-7460.

14x65 3 bedroom, 12x52 2 bedroom, payments, $170 to $140. Also lots for sale in Greenwood School District. Will arrange financing, 694-1432.

1976 14x72 Graham. Super condition. $1,200 equity, take up payments. 684-9907.

1977 Nashua 14x70, 3 bedroom, 1½ bath. Low equity. Call 684-6948.

MOBILE WITH ACREAGE

Almost 2 acres with approximately 200 ft. fronting on Rankin Hwy. Good water. Partially fenced, some irrigation pipe. Mobile 2 bedroom, 1½ bath. For details, call Birdie Crowder, Assoc. of HASHA, REALTORS, 682-6264. Evenings, 683-2379.

1976 double wide mobile home. Just like new. Has new drapes and carpet. New covered carport, storeroom. Pecan Grove Mobile Park, Greenwood District. 682-4139.

79 Open Houses

OPEN for YOU

EXCLUSIVE
SADDLE CLUB SOUTH
5115 DAVENTRY
5117 DAVENTRY
Open 2 to 5
JACK B. COOK & ASSOC.
(Located between Garfield & Big Spring on FM 868)

OPEN HOUSE
5101 Ashdown
3-6
3 BR, 2 Bath with powder room, 1 living area.
Shown by Karen Forster, 697-1544, Assoc.
Word Sherrill Realtors, 683-7002

OPEN HOUSE
4519 BROOKDALE
2 TO 5
SATURDAY & SUNDAY
RONALD JAMES, REALTORS

SHINE ON HARVEST MOON!

ONE & TWO BEDROOM CONDOMINIUMS

"Visit our display models and discover how easy it is to enjoy your very own condominium."

"LIDDON"
50% SOLD

90% FINANCING AVAILABLE

OPEN HOUSE SATURDAY & SUNDAY

11 AM TO 6 PM

DISPLAY MODELS OPEN DAILY 10 AM TO 5 PM

SUTTON PLACE TOWNHOMES

NO.77 600 LIDDON

INFORMATION
682-4961

79 Open Houses

LANGSTON OPEN HOUSES
SUNDAY, 3-5

3302 MaMar $175,000
Brand new listing, outstanding home!

3304 Durant $117,500
Lovely two-story 4 BR in Kimberlea!

2510 Noel $87,500
Great Paul Noel townhome. Don't miss the delightful "tea room"!

We will also be showing a wide range of Paul Noel Townhomes ranging in price from.... **$53,500 to $108,850**

HARVEY LANGSTON REALTORS 682-9495

OPEN HOUSE
2 to 5 PM
A custom townhouse.
4401 LANHAM
Priced to sell
CHARLIE LINEBARGER, INC.

OPEN HOUSE
2827 EMERSON
3-5
Shown by Barbara Wilkinson, 682-0600, Assoc.
Word Sherrill Realtors, 683-7002

OPEN HOUSE
SUNDAY, 1 TO 4
4820 W. ILLINOIS
Beautifully decorated 3 bedroom, brick, Hollywood bath, recessed lighting, 2 living areas, large country kitchen and a lot more surprises.
Shown by Billie Jo Baker, Associate, CENTURY 21, LA CASA REALTORS, 683-6336, 697-5970.

COUNTRY REALTY
684-9020
Rural Property Specialist MLS
Small Tracts-Farms & Ranches

Francis St., 3 BR house & 2 apartments, 3 wells	$22,500.00
2.14 acres, 3 BR, 2 ba., 3 wells	$35,500.00
22 acres South Midkiff, large brick home, 3 wells, shop	$154,000.00
14 acres 2 story brick, 3 BR, 3 ba., barn & fenced	$75,000.00
5 acres in Greenwood, 20 GPM well	$8,000.00
16 acres, 3 BR, 1 3/4 ba., 600 GPM well-10 acres alfalfa	$125,000.00
81 acres farm land, 4 good wells	CALL
1 section improved grass land-Upton County-owner financed	CALL
3 acres S. of Midland, water guarantee. Financing available	$7,500.00
20 acres near I-20 on South Main Hwy	$70,000.00
5 acre tracts S. of Midland and in Greenwood School District	$7,500.00
1972 Broadmoore on 1 1/2 acres S. of Midland	$21,500.00

Marie Robertson **684-9020**

79 Open Houses

OPEN HOUSE
2-4 PM
2811 GOLF COURSE
Shown By
Debbie Brinson
MONARCH REALTORS

OPEN HOUSE
3208 West Ohio
2:00—5:00 PM
SUE BATES & WILL BRINSON
CONSOLIDATED PROPERTY CONSULTANTS
563-2312

Use Reporter Telegram Want Ads For Fast Results. Dial 682-6222.

79 Open Houses

Open House
3005 MEADOWBROOK
3-5 PM
Shown By
CARRIAGE CO. REALTORS
684-5881

OPEN HOUSE
3215 DENGAR
2 to 5
JACK B. COOK & ASSOC.

BISHOP REALTORS
2303 W. Louisiana
683-5363
REALTOR

"LET US OPEN THE DOOR TO YOUR REAL ESTATE NEEDS"

"JUST LISTED"—Nice, clean, 3 Br.-2 full baths, den & garage, water well, fully carpeted & draped-large work shop-several fruit trees-near elementary school.

"ENCLOSED COURTYARD"—Professionally decorated. Patio home-3 huge Br.'s, 2½ baths-formal dining & large breakfast area, 2 car gar.-all the amenities.

"PEACEFUL COUNTRY LIVING"—3-2-large liv. & din. areas, seq. den w/knotty pine panneling-2 fp-windmill & out bldgs. on 2 acres-$57,000 appraised.

"RETIRED OR NEWLY WEDS"—Large liv. rm.-cozy kitchen, blt. in d/w, fenced back yd. Neat as a pin-2-1 bath-1 car gar-on College.

JoAnn Stroud 694-6829 | Wanda Bishop 694-3431 | Mary A. Owens 366-5995

For Fast Results, Dial 682-6222

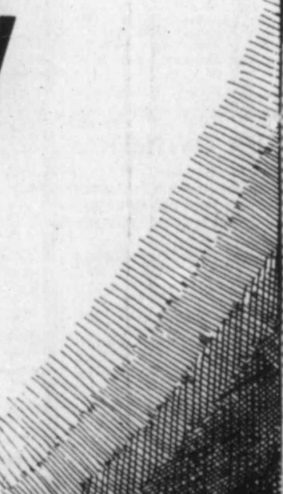
79 Open Houses

Open House
2912 NORTHTOWN
and
2913 NORTHTOWN
1-3 PM
Shown By
CARRIAGE CO. REALTORS
684-5881

79 Open Houses

Open House
3225 W. DENGAR
4-5:30 PM
LARGE 4 BEDROOM BRICK
Nice den, fireplace, retrigerated air, sun room and storm cellar. $1800 below appraisal. Price in low $60s.
Shown By
SKYLINE REALTORS

$42,500 - $44,000
5% DOWN



- 3 Bedrooms, 2 Full Baths
- Wood Burning Fireplace
- Double Car Garage
- Built in Appliances
- 5 Floor Plans Available
- Vaulted Ceilings
- Separate Entry
- Refrigerated Air

CALL FOR APPOINTMENT
RAMCON
684-8448 or 563-3005
SALES OFFICE -101 N. DEWBERRY- 697-4741
Homes open daily 3:00-6:00 PM

Want Ads 682-6222

80 Houses for Sale

SUNSET REALTY
Call Faye McAdams at 682-6651 or 683-1786.
THOMASON: 3 or 4 bedrooms with 1 or 2 living areas, 1 3/4 baths, water well w/a pump. Corner lot near shopping area. New paint inside. Air conditioner 3 years old. Owner leaving. Quick sale!

LARGE 4, 4½, 2, brick, 2 fireplaces, pool, cabana, water well. Owner. 804 Gulf. 682-1803.

NEW 3 bedroom, 2 bath, double car, refrigerated air, fireplace, fenced, built-in kitchen, extra insulation and insulated windows. $53,800. 694-2957 or 683-6917.

NEW 4 bedroom with 1 living area or 3 bedroom with 2 living areas, 2 baths, large single car garage with storage, and utility room. Refrigerated air, fireplace, fence, built-ins. Extra insulation and insulated windows. $45,800. 694-2957 or 683-6917.

I want to buy: Residence, 2 or 3 bedroom, 2 or 3 bathroom with 1 or more rentals in rear, within 16 blocks of downtown Midland; any direction. Phil Minear, 682-8495 after 5 PM.

VACANT-3 bedroom, 1¾ baths, 2 living areas. Ready for you. Call Jack B. Cook and Assoc., 563-3136.

NICE large 3 bedroom, 2 bath, quiet neighborhood. New loan or large equity. Mary Thompson, 682-7681.

FOR SALE BY OWNER
2622 Roosevelt
2 bedroom. New carpet and fresh paint. Large kitchen with lots of storage space. See after 3 PM.

3115 HUMBLE MAMAR BY OWNER
3 bedrooms, living, dining, den with fireplace, large family room paneled with brick floor, 2¾ baths, many built-ins and ample storage. By appointment only. 694-7259.

PRICE REDUCED!!
This GLEAMING-SPACIOUS home has 3 BR, 1¾ baths, fabulous 1 living area with fireplace, luxurious carpet, bay window in dining area. Kitchen has total built-ins. Dressing area off master suite. Ref. air. Truly an outstanding value at $59,500. Call CAROLYN NICKELL, 684-8962, Assoc. LARRY RANKIN REALTORS, 697-3123.

UNLIMITED
Space for the large family or hobbyist. 3 BR's plus den plus hobby room plus formal dining. Excellent condition, Refg. air, water well. Priced at approx. $20 per sq. ft. on Kentucky—$42,000-call Gae Anderson, 683-3864. Word Sherrill Realtors, 683-7002.

MAMAR
Lovely colonial 2 story home on cul-de-sac. Dramatic sense of space with 4 bedrooms, 2¾ baths. Beautiful heated swimming pool and sprinkler system. Call Mike Umfleet, 694-0900.
HARVEY LANGSTON REALTORS 682-9495

3522 SHANDON BY OWNER
Lee-Rusk. 3 bedroom, 1¾ bath, 2 living areas, fireplace, 2 car garage. Excellent condition. $45,000.
Call 694-5800

FHA
No down payment to Veterans. Total move-in less than $1000. Brick, 2 bedroom, 1 bath, large country kitchen. Neat, clean and pretty. To see call,
Phyllis Gifford, 682-0390
ROBERTS REALTORS, 683-4686

BY OWNER
Emerson-Goddard area. 3 bedrooms, 1¾ baths, formal living and dining, new paint and carpet. Lovely landscaping. Call:—
683-0849 or 683-6054

UNIQUE
Is the word for this 2 BR home-perfect for a bachelor pad or small family. Contemporary with beamed shed ceilings, Refg. air, lots of storage, like new condition throughout. Call Gae Anderson, 683-3864, Word Sherrill Realtors, 683-7002.

Don't Delay—Call Right Now! Nice carpet & drapes— 3-2-den-1 car garage, large yard w/water well, work shop, fruit trees & grapes.
Bishop Realtors,
JoAnn Stroud, Associate
694-6829

*** REDUCED**
Owner needs to sell 3 bedroom, 1¾ baths, formal dining, den, fireplace, refrigerated air Northwest Midland. Very clean and in the 50's. TALK TO FRANK NALL, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 682-2826.

GUARANTEED
—to serve the needs of a large, active family. Spacious 4 BR-4 Bath home on 2 acres in city limits. Good water well for yard and orchard. Call Patsy Welmaker 682-8906, assoc. Word Sherrill Realtors 683-7002.

JUST LISTED WESTSIDE DANDY
Den & Fireplace
Nice 3 bedroom brick, 1½ bath, fully carpeted. Near Burnett Elementary. $36,500 total price. FHA or VA loan. Call SKYLINE REALTORS 697-4181. Marilyn Yeager, 684-7023 or Ladelle Swint, 694-8074.

4-BEDROOM $36,500
Plus 2 baths, brick, clean, new carpet & paint. Westside.
HAZEL HELLUMS REALTORS
697-4177 694-7975

*** WHY RENT**
When you can buy? Take a look at this 3 bedroom home with fireplace and refrigerated air and priced under $35,000. TALK TO PATSY BRICE, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 683-1596.

WILL SELL FHA or VA
$1550 TOTAL MOVE-IN
Nice westside 2 bedroom. Good carpet and paint. Fenced yard. Near Dellwood Shopping Center. Payments under $200 month. Call
SKYLINE REALTORS 697-4181
Marilyn Yeager 684-7023 Ladelle Swint 694-8074

Reporter-Telegram Want Ads Dial 682-6222

80 Houses for Sale

ERA HASHA REALTORS 682-6264 2111 W. Texas Ave.
Electronic Realty Associates
Each office independently owned and operated

SEE FOR YOURSELF...This lovely 3 bedroom home with formal living room, den kit. comb., covered patio, 2 car garage & circle drive-way. ERA- Buyer's Protection Plan. Call Helen.
RURAL GARDNER...Three bedrooms, den, fireplace on 1 acre of land. Several fruit trees. To see, call Stephen.
ENJOY LIFE AT THE LAKE...Lovely 2 bedroom 2 bath. Great for retirement or a retreat from the city. Call Betty.
FEELS LIKE HOME...The minute you see this 3 bedroom, 1 3/4 bath home with den, nice kitchen with breakfast bar, and close to schools. To preview, call Birdie.
NEAR THE VILLAGE...3 bedroom, 2 1/2 baths, 2 car garage. 3rd bedroom is ideal for the live-in mother-in-law. Call Betty.
SNUGGLE UP...and enjoy the fireplace in the cozy comfort of this 1 living area; plus 3 bedrooms, patio and storage house. See today..Call Stephen.
A DOLL HOUSE... If you can use a 2 bedroom 1 bath 1 garage near Big Spring Street, you won't want to miss this beauty. Call-Betty.
SAY GOOD-BYE TO YOUR BOSS...and get into business for yourself. To find out about this established business, call Helen.
NEED A HOUSE TO BE MOVED?...We have 2. Call Helen.
BUILD IN THE COUNTRY... on this 3 acre tract. Call Stephen
INVEST IN NORTHWEST COMMERCIAL CORNER. For details call Martha.
SIX ACRE TRACT... with water well, available Southeast Midland, call Helen.
SEVERAL VACANT Lots and MOBILE HOME Lots...Call Martha.

ERA'S HOME BUYERS' PROTECTION PLAN is a 1-year limited warranty covering the repair or replacement of the working components of a home subject to an applicable deductible.

AFTER HOURS CALL
Marie Gregory ..... 697-2853 Bobbye Dumas 694-0572
Betty Dillow ..... 683-9233 Stephen Hasha 694-1249
Birdie Crowder ..... 683-2379 Helen Mason 694-0247
MARTHA HASHA, Owner-Broker 694-8193

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Our EXPERIENCED REALTORS want to help you SELL your home LIST with us.

LET US SHOW YOU this almost new home in the country. Immediate possession. 3 BR, 1 3/4 bath, ref. air, excellent water well, built ins, 4.6 acres & other extras, all for ..... $45,000.
OLDER HOME with a young feeling, one living area, 2 BR, 1 3/4 bath, fireplace ..... $38,000.
EXCELLENT building site for home or subdivision, 38 acres north of Terminal & T.I. Financing available ..... $80,000.
GREENWOOD AREA, 5 acres, no restrictions .... $6,250.
GREENWOOD AREA. Exclusive homesite, over 10 acres, fenced, irrigated ..... $24,200.

QUALITY HOMES by Tom Canton
Now building in Greenwood District and West Midland. Call

COMMERCIAL PROPERTY
2910 West Wall: LR 3 Zoning. Huge building with many possibilities ..... Call
5.45 Acres, S. of Dayton Tire Co., choice location. Frontage on I-20 & FM 715, financing available .... $60,000.
Various Size Tracts, frontage on I-20 ... Cal for details.
200 ft. Frontage on Rankin Hwy $25,000
2 Lots on S. Lamesa Rd, 140 ft. frontage ..... Call
5 Lots on S. Lamesa Rd, 300 ft. frontage ..... Call

YOUR REAL ESTATE HEADQUARTERS
After 5:30 Call

Judy Everett	683-3564	Sharon Bush	694-2844
Janice Green GRI	682-0138	Marvin Wood	694-7397
Mona Snow	697-2581	Mildred Ethridge	694-7368

Mildred Unruh, Owner-Broker ... 694-6160

68 RENT HOUSES
in Midland for sale by owner seeking retirement. All good properties, including 50 brick or brick trim homes. Replacement cost $2 million. $103,000 annual revenue, increasing $18,000 yearly. Price $750,000. $65,000 cash down payment, owner will carry 25 year financing. $10,000 maintenance paraphernalia included. Offers and acreage trades considered. Thank you. Have a beautiful life.
DR. A. HENRY SARA-NEC
1616 W. Golf Course Rd. 684-8222

*** PRICE REDUCED**
On this Northwest Area Home, with living room, den, breakfast bar, built-ins in kitchen, 3 nice size bedrooms, 1¾ bath, covered patio, large trees. Priced at $38,900. For details, TALK TO ELIZABETH COX, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 683-1405.

LEDGESTONE FIREPLACE
in the spacious family room of this lovely home in a quiet established area. 2 liv. areas, 3 very lg. bedrooms, refg. air, all built-ins, covered patio, lg. trees. Around 2,200 sq. ft. Small 5¼% existing loan. Quality for $62,500!
LOMAGENE BOERM, Realtor
697-3258

*** SUPER LOCATION —**
in Fannin Terrace near elementary school and shopping, three bedrooms, two baths, living room. Sun room and large utility room, den, on a corner lot. Priced at appraised value for $62,500.00. TALK TO LINDA RECTOR, Associate, DON HARVEY, REALTORS, 682-8155.

BY OWNER
3, 2 1/2, 2, French style home in earthtones. 2 living areas, formal dining, sprinkler system, electric garage door opener. Beautiful yard and landscaping. Corner lot. Built-in bookshelves, fireplace and refrigerated air. Only 18 months old. Bargain for $76,500. 4100 Skyline Drive. 2116 sq. ft. Call for appointment. 697-2510.

MOVE-IN CONDITION NICELY LANDSCAPED
3 bedroom, 2 baths, 2 G, refrigerated air, beautiful one living area with fireplace. $48,500

3 bedroom, 1¾ baths, living room, den with fireplace, outside storage, covered patio.... $53,000

JOYCE OR RAY SMITH
682-8818
Associate, Ronald James, Realtors

*** ONE LIVING AREA**
Neat, clean 3 bedroom, 1¾ bath, freshly painted on Dormard. Water well and refrigeration. Nice quiet neighborhood. TALK TO JOY SELTZER, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 682-9567.

OPPORTUNITY KNOCKS
For this 2 BR, 2 bath house with refg. air. Dbl. carport, Flagstone patio & cyclone fence. Attached 1 BR, 1 bath furnished unit & 1 BR, 1 bath furnished house at back of lot. All for $25,000. Call now. Helen Mason, Assoc., HASHA, REALTORS, 682-6264. Evenings, 694-0247.

80 Houses for Sale

LARRY RANKIN REALTORS 697-3123

Osage $53,800
RANCH STYLE HOME——DESERT GARDEN LANDSCAPING——Good location. Lovely 3 BR, 1 3/4 bath, formal living & dining, large beautifully paneled den with fireplace. Nice office or sewing room off den. Refg. air. Outside storage. Mint condition. Great assumption!

Cardinal Lane $97,000
ONE YOU DREAM ABOUT in Peaceful Country-on 1 ½ acres (northwest location). Beautiful entry, magnificent one living area with fireplace-2 skylights, bay window in formal dining, unique kitchen has micro-wave & trash compactor-3 BR, 2 baths, dreamy master suite has fireplace, with sliding glass doors leading to covered patio & immaculate yard. Humidifier & refg. air.

Mariana $40,000
NEW LISTING-CHARMING & DELIGHTFUL!! Lovely 3 BR, 1 ¾ bath, living room & DEN with FIREPLACE. Beautiful carpet throughout, almost new. Pretty drapes, kitchen has dishwasher & no wax floor, refg. & central heat. Only 5 months old. Excellent condition!

Boeing $67,500
PUT A GLOW IN YOUR LIFE! Enjoy this cozy wood burning fireplace in beautiful paneled one living area with beamed ceiling. The luxurious carpet will compliment any decor. 3 BR, 1 ¾ bath, total built-ins in kitchen with breakfast bar. Storage bldg. with workshop. Refrigerated air.

North "A" $47,500
SPACIOUS & PRETTY-great for family living! 4 BR, 1 ¾ bath, formal living & dining area-lovely paneled den with built-in bookcase, cheerful built-in kitchen, separate utility. Pecan trees (loaded), one apricot & two oak trees. A well kept home with the utmost charm.

Laura $59,500
LOOK NO MORE - THIS IS IT! SPACIOUS 3 BR, 1 ¾ bath, fabulous one living area with fireplace, beautiful carpet & wallpaper, bay window in dining area, delightful kitchen has total built-ins, dressing area off master suite, refg. air.

Wadley $32,000
NEAT & CLEAN! A very comfortable 2 BR, 1 bath home with lots of storage. One living area & bedrooms are paneled. Nice carpet throughout. Spacious kitchen, large outside storage.

Washington $15,500
AS TIME GOES ON-You will be paying more & more rent, so why not buy your home now. Nice 2 BR, 1 living area with 1 car garage. Owner will consider carrying papers.

Wadley $79,000
SO MUCH for SO LITTLE! Lovely new home by Cecil Vest. Spacious 3 BR, 3 baths-Fabulous one living area with fireplace-luxurious carpet throughout. Large game room-lovely garden room. Dream kitchen has micro-wave built in. Electric door opener-refrigerated air. DON'T MISS THIS ONE!

Ma Mar $145,000
LIVE LONGER-GET IN SHAPE! You can do just that in this beautiful unique home that has it's own GYMNASIUM-with SAUNA! 3 BR, 2 ½ baths-exquisite decor-Special features include intercom, electric door opener, built-in gas grill & sprinkler system. Every amenity for beautiful living.

Cuthbert $70,250
LARGE, LOVELY TREES! You will enjoy the evening breeze in this beautifully landscaped yard-very private with high fence, sprinkler system in front. Inside relax in the spaciousness of this 3 BR, 2 bath home with fireplace. Refrigerated air.

Edwards $50,000
BIG FAMILY-this is the home for you. 4 huge BRs plus 3 full baths, nice country kitchen, lots of cabinets & closet space plus large office with separate entrance. Lots of room for living!

Baumann $47,500
$$DOLLARS$$-SAVE MONEY when you purchase this beautiful, immaculate home for $9,200 below appraisal. Large & spacious 3 BR, 2 living areas, fireplace, refrigerated air, lots of trees, excellent water well, 2 patios, concrete block fence. Priced for immediate action!

Pasadena $45,500
ENJOY the COZY FIREPLACE in this spacious home. 3 BR, 1¾ baths, living room & large den. Built-in range & dishwasher. Covered patio. Recently painted inside & out.

Erie $40,500
Call US to show you this GLEAMING home! 3 BR, 1¾ baths, one living area. Pretty counter tops & linoleum in kitchen. Immaculate yard has gas barbecue grill & tile block fence.

Princeton $33,500
2 LIVING AREAS in this 3 BR home, 1¾ baths, kitchen has built-in range & oven. Carpeted throughout. Nice landscaping divided yard. LOW EQUITY.

Wilshire $32,500
PRETTY paneling throughout, 3 BR, 1¾ baths, 2 living areas, corner lot. Will have new paint outside. Better act fast on this one!

Cuthbert $30,000
HOLLYWOOD bath in this pretty 3 BR home, one living area, free standing range in kitchen-corner lot. Across from new homes. Will go FHA or VA.

Sprayberry $28,400
GREAT STARTER HOME! 3 BR, 1½ baths, one living area-dishwasher. Now being painted inside & out. Will go FHA or VA

Country Home $45,000
SPECIAL! Choose your own colors. Owner will finish. 3 BR, 1 living area, double car garage on one acre of land.

Northrup $17,000
RESIDENTIAL LOTS Great location.

Pecan Orchard $76,500
875 pecan trees planted march 1976. Each has own watering system. Call for details.

INVESTMENTS

DUPLEX-Excellent investment-North Big Spring St. Good income, extra large lot	$40,000
APARTMENTS-Stanton Tex. Good income	$68,500
MOTEL-14 units, 2 offices, 3 bdrm house. Good income producing prbperty, great location	$130,000
3 BDRM HOUSE-Two 2 bdrm. houses, 7 mobile homes, 8 acres land, large workshop, 3 water wells, Excellent income	CALL

COMMERCIAL

N. BIG SPRING-Nice house could be used for offices	$39,500
INDUSTRIAL-3.91 acres	$48,000
MIDLAND DELIVERY SERVICE-Light pkg. delivery & mail-car included. Good income. Easy terms-owner financed	$11,000
SERVICE STATION-Wall St. location	$79,500
MIDLAND DRIVE-Laundromat, almost new washers & dryers. Good cash flow	$125,000
WAREHOUSE-Concrete block, located on 1¼ acres. Approx. 11,000 sq. ft.	$78,750
HOUSE OF FISHES-Wall St. location. Business only. Owner financed. Great cash flow	$31,000
TOWN & COUNTRY SHOPPING CENTER-Good investment land. Located by new store	$35,000
EAST HWY. 80-10 great acres now ready for development	CALL

FARMS & RANCHES

GI ELIGIBLE land available in Brady, Texas area. Good grass	CALL
GREENWOOD AREA-16.08 acres	$20,000

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—To your investments. This 4 bedroom, 3 bath, lovely, near new Green Tree Country Club, needs finishing. Much potential. Plans available in listing office. 229 acres. Room for pool · tennis court · horses. TALK TO JOY SELTZER, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 682-9567.

80 Houses for Sale

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NEW HOMES

BY: IKE COATS
DAVENTRY—Townhouse Concept with 3BR/2¾ Baths, 2 living areas, breakfast room, Many large closets, His & Her Baths-Oversized double garage w/elec. openers $82,900
BY: CLAUDE BUFLER
201 EAST PECAN—No Down Payment for veterans. It will sell VA 3BR/1 Large Bath—Wide ho ..... $CALL
BY: ROBERT GRAHAM & HENRY CULP BUILDERS
3202 HILL—Cathedral Ceiling, Spacious, Open Roof Pat Heating and airconditioning. 3BR/2 bath with CAL Garage $43,900
3205 SYCAMORE—As little as $219.00 Down Will Move You Into This Nice 3BR/2 Bath Home. Dining Area Decorated in Earthtones $43,900
BY: PAUL NOEL
5113 ASHDOWN—Located in Beautiful Saddle Club South-Townhouse Style Home with 2 Fireplaces, Many Built-ins and Very Spacious! $83,900

PRE OWNED HOMES

GULF—NEAT & CLEAN 3BR/2 Bath with Ref. Air & 2 Car Garage. Done in Earthtones with bay window in Breakfast area. Open & Airy ... $43,000
ROOSEVELT—PRETTY YELLOW COTTAGE with 2BR/1 Bath....neat & clean, very well kept. (Being Landscaped) Conservative utility bills. A GREAT FIRST HOME! $23,500
FANNIN—2BR/2 Baths, Built-ins, Light & Airy, huge Master Bedroom And Closets. Earthtones. Car Garage $50,000
DURANT—Prestigious Neighborhood...very large home with good floor plan. Needs some decorating but priced to sell...Many possibilities $82,500
WOODCREST—Reduced to Sell. You'll like this 3BR/1¾ Bath with workshop $29,000
HOWARD—NICE 2 or 3 Bedroom with Electric fireplace. Fresh paint and other added pluses. Good location $21,500
TANNER—LOTS OF NICE PANELING in this 3BR/1 Bath Home. Very nice & well decorated...new carpet and fresh paint. This home also has a workshop. See to Appreciate! $27,500
KENTUCKY—$00 Down Payment FHA-3Br/2 Bath THAT HAS BEEN TOTALLY REMODELED! Great first home $22,500
SPRABERRY—SPANISH STYLE DOLL HOUSE! 3BR/2 Baths...well decorated and in good condition. See to Appreciate! $32,750

MOBILE HOMES

LIKE NEW!—14' X 80' 3BR/2 Baths, Earthtones. Sunken Tub & other extras! $16,000
14' X 85'—2 Bath/3 Bedroom situated on one acre of land with waterwell! $20,000
UNFURNISHED—28' X 70' 3BR/2 Baths, Sunken Tub, Shingle Roof, double padded walls. Large Master Bedroom & many added amenities $28,500

RURAL

ROUTE 2—Off Hwy. 80 East-2 BR/2 bath with good water well and 10 acres—Excellent possibilities for mobile home park $55,000

ACREAGE

10 ACRES—N.E. Midland-fenced-good water on surrounding acres $20,000

LOTS

SOUTHSIDE & EAST SIDE ..... CALL BETTY
BURCHILL LOT $3,200

CRIS COPE ..... 684-5247 FRANCES COATS 683-1618
KAY BATES ..... 694-8422 CAROLYN HOLLAND.. 697-2039
LAMAR COATS ..... 694-5103 SHARON WOODARD .. 682-2160
BETTY TAYLOR, GRI . 694-6842

SOLD SOLD SOLD

BUNNIE KENT REALTORS
The Gallery of Homes
1906 Illinois MLS 684-6361 684-6363

METZ COURT—One owner home-beautiful condition-prestigious area-4 bedroom-3½ bath-A must to see! $99,950
FERNCLIFF—Nearly new-customed 3 bedroom-one living area-fireplace-courtyard entry-lovely yard-lots of built-ins-you will love this one. It is already appraised for $71,000
HODGES—Just reduced-this pretty 4 bedroom is waiting for a family to move in-tree shaded yard-formal dining-sunny kitchen-living room and den $73,500
GULF—Nearly new 4 bedroom with a lovely pool-one living area-formal dining-storm windows-dead bolts-extra insulation. A well built & planned home $78,500
COUNTRY CLUB—A beautifully arranged family home in super location-Wonderful for entertaining-5 bedrooms-2 fireplaces-large workshop and greenhouse-water well for yard-wet bar-lots of storage-plus a study $157,000
WESTERN—If you have a large family, consider this spacious 4 or 5 bedroom-3 bath home-sets on high land in a top location-one owner home $98,000
DURANT—A well cared for home-close to schools-good storage space-recently repainted-4 bedrooms-large utility-nice floor plan $83,500
MEADOWBROOK—Townhouse with many extras-tile floor in garden room-study-3 bedrooms-large living-dining room-sunny kitchen-courtyard with fountain and ceiling fans-a very special home $119,750
LANHAM—4 bedroom-one living area-courtyard entry-circle drive-large covered patio-formal dining-master bedroom large enough for sitting room too $84,950
ROOSEVELT—3 bedroom-clean and pretty-has been completely redecorated since March-in tip-top condition-you will like it $42,500
THOMASON—You need to see this one-it is lovely-3 bedrooms-tip-top condition-top of the line appliances-lovely paneling-2 storage buildings . $52,500
WAVERLY—Two story-downstairs finished with 2 bedrooms-one bath. Upstairs has room to put 2 more bedrooms and a bath $32,300
WAVERLY—Two story-2 bedrooms and bath finished downstairs-room to put 2 bedrooms and bath upstairs $31,750
NOEL—Townhouse-Santa Fe style-3 bedrooms-one living area-fully equipped kitchen-high ceiling and tile floor in living-dining room-courtyard ... $89,900
KNIFFEN—Country home-3 bedrooms-cathedral ceiling in one living area-one 1¼ acres-water well-septic system-a pretty new area $61,500
BAIRD—3 or 4 bedroom-large house that needs a buyer-reduced to $18,500
GULF—Two story-4 bedrooms-expensive new carpet throughout-repainted-owners want a quick sale-take a look $67,500
WHITAKER—3 bedroom-large older home, was once a duplex-has basement room-make offer .. $23,090
BIG LAKE—3 bedroom home plus a trailer that rents for $125 a month-large workshop-this property has 3 lots-good investment $30,000
KINGSLAND, TEXAS—Beautiful 3 bedroom on 83' lake front-house has many amenities-traveling boat house with deck top $130,000

LOTS

NEELY—11½ lots ..... per lot $8,000
PARKWOOD DRIVE—Two lots-each $3500
GULF—One lot $6500

Marilyn Whitaker ..... 684-9833 Opel Diemer 682-8805
Dot Pringle ..... 682-7433 Joan Noel 682-0625
Nell Scott ..... 694-1176 Bunnie Kent 694-2197
Dayne Cabiness ..... 694-0047 Lou Ashmore 682-3264
Dianne Tipton ..... 694-3881 B. J. Watkins 697-5702

Heritage Realtors
MLS
IMMACULATE - 3 bedroom, 1 ¾ baths, brick, beautiful new carpet. One of the nicer homes in the area .. $33,500
CROCKETT - Delightful 3 bedroom, nice kitchen and dining, convenient to shopping and schools. Newly remodeled den $27,500
RON ESKRIDGE...694-7407

80 Houses for Sale

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ONE OF A KIND—It's our pleasure to offer this delightfully different & most unique 2 bdr. home. So many features in this one it would be impossible to believe without seeing. Call for appointment. You'll be glad you did $197,500
EMERSON—This has everything almost! Beautifully decorated 4 bdrs., 2½ baths, separate living & dining, den w/fireplace, custom drapes, humidifier, elec. garage door opener, trash compactor, intercom, super landscaping $110,995
HUMBLE—Something a little special for that special person. Elegant handsomely detailed custom home in coveted area. 4 bdrs., formal living & dining, den w/cathedral ceiling, gourmet kitchen, brick porch & fence, huge aggregrate patio overlooking beautifully landscaped yard $187,000
ANDREWS HWY—Mature home with young ideas. 4 bdrs., 2 full and two ¾ baths, den w/brick floors & fireplace on 2 acres. Orchard. water well for yard $110,000
MAXWELL—Join the Proud Crowd. Let us show you this special home designed for the fun loving family. 3-2-2, gameroom, 1 living area, separate dining, beautiful heated pool & landscaping $92,300
SIESTA—Unique two story, duplex with all the extras. 2 large bdr., 2 full baths each side. Spanish Contemporary ..... SOLD
EMERSON—Light & Bright & it's our delight to offer this young 3 bdr., 1 living area home to you. Courtyard entry, formal dining, wet bar, skylights, lots of Mexican tile $77,500
STANOLIND—Approved by Good Housekeeping! 3 bdr. home near Lee High with glassed in sun porch, kitchen w/almost new appliances, Jennaire, den w/beautiful fireplace & skylight $63,500
HYDE PARK—Better be an early bird on this one! One large living area, 3 bdrs., pretty bay windowed breakfast area, all the built ins, great location, low equity $67,000
PECAN—Nice & Neat & you can't beat this 3 bdr. home in great location. Living, dining, den, fireplace, built-in kitchen, ref. air $62,000
GOLF COURSE—Great little pad for a bachelor lad. 2 bdr., 1¾ bath, patio home. Mexican tile in living area. Sprinkler system ..... SOLD
MARIANA—Spacious 2 bdr., 1¾ home w/lots of extra built-ins. Very pretty kitchen & family room must see to appreciate $38,500
KENTUCKY—No sales pitch just a darn good deal if you're looking for floor space. 3 bdrs., 2 baths, separate dining, practically new carpet, lots of re-decorating water well $42,000
DEWBERRY—Darling 3 bdr., 1¾ bath brick w/new dishwasher, nice carpet. FHA financing $28,500
MAIN—A great little house for a man & his spouse! Darling 2 bdr., 1 bath contemporary with lots of new, beamed shed ceilings, workshop. Ref. air $25,000
BENTWOOD—Nice 3 bdr. home w/built-in range & oven, large area off kitchen for family living, big vine covered patio FHA or VA $29,500
1223 SOUTH—Double wide mobile home, 3-2, fireplace on 1½ acres, good water well, septic tank, low equity $34,500
S. WEATHERFORD—Neat little house. Carpet nearly new in step down den. Will consider FHA. $19,000
MOBILE HOME—3-1¾-2 car garage, lots of concrete work, large workshop, above ground pool on acreage $16,500
CAROL DRIVE—Nice 2 bdr., 1 bath, asbestos siding, large lot $16,000
2 bdr., 1 bath frame house to be moved. Call for directions $3,900

RECREATION PROPERTY

RUIDOSO CHALET—Tri-level modified A-frame. 1 bdr., 1 bath on each level, playroom w/wet bar & rock fountain, den w/unusual fireplace, completely furnished $69,500
RUIDOSO LOT—102x102 in Camelot Subdivision, all utilities & paved road ..... CALL
TIMBERSON—1½ acres utilities lodge, air strip, tennis courts, swimming pool, good roads $5,000
LAKE SWEETWATER—Approx. 40 choice lots w/utilities, easy access, beautiful trees. Easy financing available. Great for investors! ..... CALL
BLACK TAIL DEER COUNTRY—One section joining Big Bend National Park, $65 an acre. CALL
NUECES RIVER FRONTAGE—Hunter's Paradise! Big white tail country, plus Axis deer, Sika deer, Fallow deer, Javelina, Buffalo, Dove & Quail ..... CALL

NEW CONSTRUCTION
By Design Enterprises

DUPLEX—3 bdrs., 2 baths, vaulted living area, all the extras $82,500
SIESTA—New contemporary duplex, 3 bdrs., 2 baths. Clestory windows in vaulted 1 living area CALL
SPARTAN—3-2 energy efficient home. Buyer may still choose colors $56,750
SPARTAN—Spacious 3-2-2, 1 living area, fireplace, ref. air. Buyer may choose colors $64,900

By R&R Construction

NORTH "D"—Contemporary 2-2 townhouse, lots of Spanish tile, 2 fireplaces, all the extras $84,500

By Little Construction - Ridge Heights

3 BDR., 2 baths, 2½ acres, near completion $59,500

By Paul Noel

NOEL—3-2-2 townhouse, 1 living area, separate dining, atrium, lots of extras, almost completed $69,900
SADDLE CLUB S.—3-2-2, powder room, courtyard. Fully equipped kitchen $95,900

LOTS & ACREAGE

MOCKINGBIRD LANE—3.83 acres with utilities and water well $42,000
BLUEBIRD LANE ..... CALL
MIDLAND DR. & MEADOWLARK—3.53 acres $35,300
ATTENTION VETERANS—GI financing available on 40 acre tracts southeast of Midland ..... CALL
21.66 ACRES—Pecan orchard, drip system $69,500
WILSHIRE PARK—20 lots zoned for duplexes $118,000
MIDLAND DR.—Lots zoned PD for townhomes $60,450
CARDINAL—1¼ acre tracts 15,000 each. Low down payment, owner financed ..... CALL
MEADOWLARK—Two 1¼ acre tracts. 15,000 each. $2,500 down, balance easy financing ..... CALL
LILLY HEIGHTS—Several large lots ..... each $7,250

COMMERCIAL

LARGE OFFICE COMPLEX—excellent location.... $450,000
COMMERCIAL LOT on Florida. Offers $35,000
GARDEN CITY HWY.—1.04 acres fenced, ideal for pipe yard $15,000
SEVERAL—Commercial lots on Big Spring ..... CALL
LOTS—Zoned LR for development ..... CALL
RANCHES—over 70 listings. 50 acres or 5,000 acres ..... CALL
N. LAMESA HWY.—15 acres. Frontage $85,000
KERRVILLE, TX—Commercial lot next to school .. $45,000

"PROFESSIONALISM WITH A PERSONAL TOUCH"

Joyce Moore, GRI 684-7209	Sarah Branum 682-9045	Robbie Rucker 682-8321
Patsy Welmaker, GRI 682-8906	Barbara Wilkinson 682-0600	Patty Sherrill, GRI 683-5972
Karen Foster 697-1544	Gerald Foster 697-1544	Gae Anderson 683-3864

BASIN REAL ESTATE
—Ed LeMarquand Owner—
308 North "A" Street Office 682-6332
Ed LeMarquand 697-5632 Alvah McKee 683-3896
Myrtle Johnson 682-0788 Mike Luna 697-3795

NEED QUICK SALE! 304 E. Pennsylvania. Immaculate small house with mobile home in rear. Extra large lot. Appraised value $11,500
TEXAS-Large 3 bedroom, 1 bath, new ref. air. on 100x146' lot in potential commercial area $46,400
CAMARIE-A sought after location. 4 bedroom. Now vacant $72,000
EXECUTIVE-Townhouse style, 4 bedroom. Call for details. $140,000
WEST PARKER-Real clean & nice. 3 bedroom $17,500
NORTH LORAINE-3 bedroom house with 2 lots $24,500

BUSINESS & BUSINESS PROPERTY
MODERN FLOOR & PAINT CO.-Old established business with excellent cash flow ..... Call Ed for details

80 Houses for Sale

LaVerne Foster Realtor 682-1103 MLS

LARGE 2-1 older home on College below $30,000
SMALL 2-1 with new vinyl siding below $15,000
For appointment or further information, Please Call!
LaVerne Foster, GRI . . . 683-1103
Ila Fuller 694-9155

CANTON'S

Carpeting, Flooring, Wall Coverings, Cabinet Tops
4600 Sinclair 694-4414

OLDER home remodeled, with refrigerated air, new carpet. See the inside to appreciate. 4 bedroom, 1¾ bath, corner fireplace. $197,500

PROPERTY CONSULTANTS

Nona Ralston	563-2312
Sue Bates	694-7597
Will Brinson	683-1991
Jerry Griffith	683-4131

*** LOW $30's**

in choice location; 3 bedrooms; 1¾ baths; 1 car garage; one living area; cinder block fence. This one will go fast. Call and TALK TO MARGIE COLEMAN, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 683-2027. $110,995

*** $28,800.00**

This home has been freshly painted. 3 bedroom, 1½ baths, fireplace, refrigerated air, 1 car garage. Excellent location and landscaping. It's a must to see at this price. To see, TALK TO POLLY DeVOSS, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 697-5732. $110,000

QUALITY BUILT CUSTOM HOMES

From your plans or ours. Building homes for 11 years. Approx. $24.00 per sq. ft. 1500 sq. ft. $36,000. 3 bedrooms, 2 full baths, built-in appliances, carpet, 2 car garage, fireplace, all brick, custom cabinets, insulated windows, refrigerated air. Free estimate. 694-4889. $92,300

J. R. McOSCAR

ATTENTION VETERANS

PAY CLOSING COST ONLY
Near Village Shopping Center. 3704 Michigan. Nice remodeled 3 bedroom brick, 1¾ bath, den, separate dining room. New paint & carpet. Water well. Please call:
SKYLINE REALTORS 697-4181
Ladelle Swint 694-8074 Marilyn Yeager 694-7023. SOLD

4427 HUMBLE

By Owner

3 Br, 1¾ bath, brick home. Central heat, evaporative air, fireplace, 2 car garage. Freshly painted, new carpet. Built-ins, corner lot. Equity & assume payments. $63,500

Call 694-4282

HOUSE & HOUSE REALTORS
694-8834
NEW LISTING ON N. COLORADO
2 bedroom, 1 bath house with rental in the back. Call Kathy Parkis, Assoc. 697-4748. $29,500

HOUSE & HOUSE
694-8834 or 682-7151
NEW LISTING ON MERCEDES
3 bedroom, 2 bath, 1 living area, 1 car garage. Low equity buy. $34,500

FOR SALE BY OWNER

2 story, 5 bedrooms, 3½ baths, living room, dining room, den, and garden room. On Princeton. Sprinklered yard. Call 683-7689 for appointment. $19,000

A HOME WITH SELF EXPRESSION

This charming spacious two story with 4 BR will make you feel like the Lord of the Manor. Has beautiful, dramatic entryway. Formal living & dining room, sequestered game room. Many kitchen cabinets. Lovely professionally landscaped private yard with large HEATED POOL. Prestigious MoMar area. For appointment, call GLORIA LOTT, 694-0401 or CECIL CAFFEY, 683-3193, Associates. $16,500

Charlie Linebarger, Inc. Realtors 683-6331

*** $41,500.00**

See this fresh and inviting 3 bedroom, 1¾ bath home with refrigerated air. Convenient, established NW neighborhood. TALK TO PAT CARL, Associate, DON HARVEY, REALTORS, 683-5333. Evenings. Evenings, 682-4088. $16,000

NEAR DELLWOOD

Lovely 3 BR home. Nice fenced yard, garage & fireplace. $39,500.00

Will FHA or VA on this 3 BR home in South Midland, only $16,500.00

11.44 ac. with 11 houses. Needs lots of work. Excellent for trailer park. Priced right $30,000.00

DRIGGERS AGENCY
682-9786
DORIS PINARD 683-2196
or come by 1300 W. Front $3,900

*** NEW!**

Townhouse on Dalton, 3 bedroom, 1 living area. To see, TALK TO "COPPER" DAUGHERTY, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 683-2937. $49,500

$48,500
711 McDonald

3 years old and better than new. Courtyard entry. 2 car garage. Fireplace, ref. Equity and $329 payments on 9% loan. Call now! CALL

LOMAGENE BOERM REALTOR
697-3258

CUTE & NEW

Only 5% down and $1,500 closing will buy this new 3 BR, 2 bath brick home priced in low 40's. One living area, woodburning fireplace, central heat, refrigerated air, range, dishwasher, garbage disposal, 2 car garage. For appointment call Merrilyn Walker, Realtor, 684-8448; Bob Spielman Real Estate, 563-3805. $85,000

*** CUL-DE-SAC**

Lots of new in this home priced in low 40's. Close to Rusk. 3 bedrooms, 1¾ baths, 2 car garage. To preview, TALK TO SUELLEN LUCKEY, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 694-8646. $45,000

$1800 BELOW APPRAISED PRICE

Don't miss this spacious 4 bedroom, 1¾ bath, brick, on Dengar. Den, fireplace, sun porch, ref. air, built-ins, double garage and storm cellar. Appraised for $63,800. $5500 total move-in cost.

SKYLINE REALTORS 697-4181
Marilyn Yeager 694-7023, Ladelle Swint 694-8074

80 Houses for Sale

Harvey Langston REALTORS — BUILDERS
682-9495

1908 W. WALL
24 HOUR SERVICE

MOVING TO MIDLAND

Harvey Langston Realtors has a relocation package that will give you all the information you need to learn about Midland and its many liveable features. For your free copy and the Langston "RELOcation Package" call 682-9495 and ask for our RELOcation Division.

FABULOUS FOURS AND MORE

MAGNIFICENT 4BR architect designed home on beautiful property. Fantastic 2 story atrium and unique decks make this truly a unique home . . . $400,000
HARVARD Selling at appraisal price this large 4BR family home with lovely courtyard entry, marvelous kitchen, swimming pool, spacious rooms . . . $265,000
GULF Two story executive home. 5BR/3.2B enhanced with charming den and wet bar, great upstairs playroom . . . $250,500
BEDFORD Architectually designed 3 BR Contemporary. Beautiful teak & walnut paneling, terrazzo floors plus many more plush extras . . . $240,000
DURANT Lovely two story home in Kimberlea with 4BR/3½B. Master has delightful fireplace, unique bath and sundeck . . . $237,500
PRINCETON Smart contemporary 4BR/3B, coveted location, super for entertaining, sequestered MBR overlooks lovely yard, many great decorating features . . . $225,000
CHATHAM COURT Fantastic floor plan enhances this 4BR with large sequestered MBR that has private courtyard . . . $215,000
WINFIELD in coveted Warwick Addition. Excellent buy on this traditional 4BR home, separate dining & living room, pool . . . $195,000
AMHURST Quiet cul-de-sac, beautiful landscaping, obvious quality in this 4BR/2B with large separate dining room . . . $187,500
MAXWELL Unusual, adaptable floor plan in this lovely 4BR near Midland college, custom drapes & mini-blinds throuout . . . $179,500
CIMMARON Price lowered on this two story 4BR/3B ideal for large family. Just out the door to Fannin School . . . $175,000
McKENZIE 4BR one living area, freshly painted outside, fully carpeted. Plant room and water well . . . $92,000

MOVING FROM MIDLAND

We have 1000+ our Midland office to serve you. Our RELOcation Division can send you maps and information on any place in the country...wherever you're moving. No cost, absolutely no obligation. Call Pat Schwartz, RELO Coordinator.

TERRIFIC THREES

COMMUNITY LANE 3BR with many built-ins and oversized windows overlooking tropical terrace! REDUCED . . . $94,000
WARD Santa Fe styled 3BR/2B loaded with charm. Green house and water well . . . $87,500
GREENWOOD 3BR/2B suburban home with 16 acres, ideal for horse lovers . . . $87,500
KENT Fine home near Baptist Church . . . SORRY SOLD
JORDAN Appraisal in and ready to sell, 3BR, convenient to schools. Large WBR, gas grill . . . $45,750
LOUISIANA Clean 3BR with fine storage and water well. Storm windows and doors throughout . . . $45,000
W. MICHIGAN Outstanding buy in freshly painted 3BR with new parquet floors and new roof . . . $45,000
ROOSEVELT Priced for IMMEDIATE SALE! Well kept, spacious rooms . . . $35,500
REAL DOLL'S HOUSE with sunroom and double detached garage that could be workshop, has alley entrance . . . $22,500
FHA or VA three bedroom with building in back that could become nice rental property . . . $22,000
FRANKLIN Good rent property in this charming 2BR cottage style home . . . $17,250

NEW CONSTRUCTION FROM LANGSTONS

HAYNES Smart 3BR townhouse, tastefully decorated, close to College and ready for immediate occupancy . . . $76,000
NORTHRUP Charming 2BR/2B townhomes that include wet bars and spacious kitchens . . . CALL
NORTHTOWN Traditional home for large family, 4+5BR with one living area, separate dining & wet bar. Just in time to select colors & sell your present home . . . $117,000

INVESTMENTS-COMMERCIAL-LOTS

CHOICE PLANNED DISTRICT—acreage in NW area of Midland, experiencing rapid growth . . . CALL
HUNTER'S PARADISE Fantastic investment for individual or corporation looking to own game reserve in beautiful Texas Hill country. This 1040 acre reserve is completely fenced and stocked with a variety of game & fish . . . CALL
BIG SPRING 30 Prime acres at intersection of I 20 and State Hwy. 350. Ideal for industrial, motel & apartment development . . . $200,000
ESTABLISHED MOTEL Big Spring, TX 17 unit motel with 9 kitchenettes . . . $130,000
SAN SABA, TX 322 acres includes six fenced pastures, four earth tanks, excellent working pens . . . $159,000
MEDICAL SUITE in the Michigan Street Associates Bldg. Call our office for details . . . $69,000
RESIDENTIAL LOT Corner of Main & Maple. Lot already has built-in sprinkler system . . . $17,500
PACKAGE DEAL OR SEPARATE Residential lot plus lot and home. Good investment property has excellent commercial potential. Call for details.

BEAUTIFUL PAUL NOEL TOWNHOMES

NOEL Smart Santa Fe styling with 3BR/2B, 10-foot ceiling with heavy beams . . . $69,900
NOEL Lovely entry courtyard in this 3BR/2B with large living area and separate dining room . . . $73,600
NOEL Skylighted plant room highlights this 3BR/2B with wet bar and sunken tub . . . $67,500
WARD Beautiful 3 BR/2BA townhome with interior courtyard, sunken living room with vaulted & beamed ceiling . . . $97,500
WARD Sparkling 3BR/2B townhome with wet bar, sunken living room, fireplace, vaulted & beamed ceiling . . . $97,500
WARD Very spacious 3BR/2B with entry courtyard kit chen has all the plus extras including microwave . . . $108,450

COUNTRY LIVING HOMES BY NOEL

ONLY seven minutes from downtown, 1½ acre lots, Midland Independent School District.

LOW UTILITIES

#52 SOUTH IRVIN Terrific one living area home with fireplace and large country kitchen . . . $68,500
#52 NORTH IRVIN Spacious sequestered MBR, exceptional storage. 3BR/2B plan with living area . . . $64,500

SELLING MIDLAND FIRST

Pat Busby	684-7496	Bobbie Morgan	684-9331
Billie Lanier	694-5500	Mike Umfleet	694-3900
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MEMBER MLS MULTIPLE LISTING SERVICE

HAZEL HELLUMS
REALTORS
No. 3A Imperial Shopping Center
697-4177
REALTOR MLS

STOP THE MUSIC . . . $38,500
And call on this cute 2 BR home, carpeted, breezeway, attached garage, corner lot, buy FHA or VA, low down payment.
DON'T MISS OUT ON THIS . . . $36,500
2 BR, 1¾ bath, brick, nice carpet, drapes, stove, refrigerator, dishwasher, fenced, garage, FHA or VA.
THE PRICe—IT'S MIGHTY NICE . . . $36,500
4 BR, 1¾ bath, brick, new carpet, wallpaper accents, some drapes, clean, 2-car carport. Not many in this price range—West side.
SELECTIVE SHOPPER . . . $42,500
Call on this lovely 3 BR, 1¾ bath, brick home. large den area with fireplace, wall of bookcases, large eating area, nice carpet & drapes, beautiful yard, terraced patio, parking for boat or camper, clean and well maintained.
WANT GREENWOOD SCHOOL? . . . $37,750
2 acres, 3 BR, 1¾ bath, den, F.P., large LR, R&O, dishwasher, (cameo double wide) some furniture, good water, call to see.
HOME IN THE COUNTRY—MOBILE HOME SPACE . . . $15,000
2½ acres, plus nice country home, 3 BR, large country kitchen, ref. air, custom drapes, enclosed patio, plenty good water, large shop, barns, carport, mobile home "set-up".
GARDENDALE . . . CALL
2 lots on Hi-way—Next to Post Office.
LAKE TRAVIS . . . CALL
2 nice restricted, residential lots, near Country Club.

FOR OTHER LISTINGS, CALL US!!!

W.R. (BILL) LOYD . . . 697-2193 DEBE DeWILD . . . 694-7975
MARGARET KING . . . 683-5486 CLEOLA BOYD . . . ? . . . 694-5130
HAZEL HELLUMS . . . 683-2937

MARY ANN CARR
REALTORS
1207 W. WALL
683-5156

Carol Hastings . . . 682-8787
Jeannie Lee . . . 694-3715 Mary Ann Nix . . . 694-3549
Virginia Jones . . . 694-4535 Billie Perry . . . 694-5806
Pat Faust . . . 694-2265 Lee Denny . . . 682-4647
Sara C. Newsom . . . 682-7047 Shirley Walther . . . 682-8225
Katie Heck, Managing Broker

NEW LISTING
102 S. HENWOOD Nice three bedroom, 1¾ bath home. New vinyl in kitchen. Interior paint new this year . . . $51,500

102 S. HENWOOD Don't miss seeing this super clean home. Three bedrooms, 2 baths, less than 1 year old. Lots of cabinets and counter tops. Touches of wallpaper, beautiful sculptured shag through-out. Lots of windows look out onto the backyard . . . $45,500

1220 CENTURY Excellent landscaping surrounds this lovely, nearly new home. For a very low equity, don't miss seeing this three bedroom, 2¼ bath home. Has refrigerated air and built-ins in the kitchen . . . $39,500

1222 CENTURY Super low equity for this three bedroom, 1¾ bath home. Only four months old. Total Electric which meets Texas Electrics EDR standard for lower utility bills. Built-ins in kitchen. Owner needs to sell . . . $38,000

802 S. COLORADO Small home in East Midland-zoned LB-2 would be great for a bookstore . . . UNDER CONTRACT

COUNTY ROAD 150 SOUTH Move this house to the land of your choice. Three bedrooms, one bath, in excellent condition . . . $15,000

COUNTY ROAD 150 SOUTH Touches of wallpaper and panelling dress up this 2 bedroom, 1 bath home in the country. Has a big utility room for storage and a good water well . . . $28,500

703 NORTH D Furniture remains with this duplex. One side has 2 bedrooms, 1 bath, the other side has 1 bedroom, 1 bath. Has lots of potential for investment property . . . $25,000

NEW LISTING
2801 DURANT Lovely home loaded with storage space. Pretty wallpaper throughout. Three bedrooms, 2½ baths, separate livingroom and den. Extra large den has fireplace, window seats and built-in bookcases . . . $61,500

LEASE/PURCHASE OPTION Finish this new construction to your own liking...3 bedrooms, 2 baths, one living area, fireplace, basement, 2 car garage . . . $67,500

202 LOCKHART Beautiful landscaping surrounds this lovely home. 3 Bedrooms, 2¼ + ½ bath, separate living room and den with fireplace. The kitchen has built-ins plus all the cabinets and counter top you could possibly need. Lots of storage and closets through-out . . . $70,000

2902 MICHIGAN Don't let this one get away! Huge den with peg-wood floors, beautiful cabinets around fireplace, beamed ceiling. Separate livingroom, 3 bedroom, 2½ baths. Very spacious home. Rental unit has a private drive . . . UNDER CONTRACT

EXCLUSIVE LISTING
Four bedrooms + study, 3½ + ½ baths, separate living room and den, formal dining room. Lovely swimming pool. Water well for yard, excellent landscaping. Large utility and sewing center, built-in wet bar. Too many amenities to list, please call Mary Ann Nix for more information.

PRICE REDUCED
1500 MIDWAY You won't believe the amount of storage in this house. Four bedrooms, 2¼ baths, separate livingroom and den with fireplace, dining room and dark room for the camera bugs. Walls are full of built-in bookcases. Office in back and a water well for the yard. Let one of our professionals show it to you . . . $72,500

400 ROOSEVELT There's room for everyone in this three bedroom, 2¼ bath home. New rust color carpet in den-all other floors are parquet. Perfect to feature your area rug . . . UNDER CONTRACT

TAX SHELTER, INVESTMENT OR HOME!!! Three duplexes in Stanton, 2 Bedroom, brick refrigerated air, fully carpeted, one block from schools, unfurnished except for range and refrigerator. Presently occupied by top-notch tenants, record of 100% occupancy . . . Each $45,000 or All Three $127,500

4436 STANOLIND Nice breakfast bar and built-ins in kitchen. Pretty tile in kitchen & den. Fresh paint inside and out in this three bedroom, 2¼ bath home. Separate living room and den. Splashes of wallpaper used throughout . . . $47,500
---3 BEDROOMS, 2¼ BATH NEAR EDWARDS, CALL---
DEVELOPMENT OPPORTUNITY
Eleven plus acres on Midland Drive near Illinois intersection. Zoned LB-2. Ideal for shopping center, apartments . . . UNDER CONTRACT

LOTS

PRICE REDUCED
1507 S. BAIRD HWY. Commercial lot with water well . . . $7,000

RIO GRANDE RANCHES, COLORADO Lovely resort property on a corner lot. Would be great for the avid skier...only one hour drive to Taos and Red River. There are no building restrictions, trailer house would be great . . . $5,000

2525-2535-2545-2555-2565 CENTURY Price includes lot, slab already poured with plumbing roughed in, and roof trusses. Plans are included and are in listing office. Call Mary Ann or Sara . . . each $6,000

BUSINESS OPPORTUNITY
ESTABLISHED CLEANERS. Business with elite clientelle, must sell because of health Problems. All equipment, high profit, good traffic location. Sellers will be happy to train new owners . . . $90,000

RENTAL
LUXURY DUPLEX FOR RENT 2 bedroom, 2 baths, fireplace, garage door opener—NEW-Call Lee Denny.

Midland Board of Realtors Multiple Listing Service North American Builders, Assoc. International Realty Consultants, Inc. Relocation Wide Field of Home Service

EQUAL HOUSING OPPORTUNITY

CLYDE C. WHITE CONSTRUCTION CO. INC.
Call Glenda Mowry, Realtor
694-3798 or 694-0654
NO. 3 BENTLEY CT. (Clyde White's personal home) . . . $180,000

NEW HOMES

4306 FERNCLIFF	$54,500
4310 NELSON	$65,000
4307 THORNBERRY	$65,000
4300 GREENBRIAR	$84,500
4304 GREENBRIAR	$75,000
5303 THOMASON	$42,500
5307 THOMASON	$45,500
318 WILLOWOOD	$42,500

COMMERCIAL PROPERTY
1506 BIG SPRING . . . $39,500

Midland Reporter-Telegram
201 East Illinois

The Carriage Co. REALTORS
OAKRIDGE SQUARE
684-5881
Multiple Listing Service

YOUR RELO BROKER

NEW LISTINGS
HUMBLE—Warwick beauty. Large pool. Beautiful landscaping. Many extras. 3 car garage. Rfg. 4/4½ . . . $265,000
DUNBAR—Cute 1 living area, exterior recently painted and some new paint inside. Rfg. 3 BR, 2 bath . . . $37,900

JEFFERSON—Professional decor featuring earthtones and extensive wallpaper. Kimberlea pool and tennis available. Large bay windows. Rfg. 3/2 . . . $77,500
AUBURN—A choice home w/great drive-up appeal. Decor in yellow, green & white. 2 living areas, dining & breakfast. Cathedral den. FP. Rfg. 4/2+ . . . $99,000
BOYD—Freshly cleaned and ready for a new owner. Recent paint, extra insulation, humidifier, good location. 3/1½ . . . $50,000
CHICASAW—New home across from Midland Country Club. Total electric. Heat pump, water well. Comfortable 1 living area. Rfg. 3/2 . . . $47,500
DENGAR—Curbed flower beds and lots of trees. Open flow living/dining, kitchen and bay window breakfast area have kitchen carpeting. 2 utilities. 4/1½ . . . $69,950
EISENHOWER—A 2 living area family home w/large kitchen/dining. Carpet throughout. Good landscaping. 3/1½ . . . $39,500
FRANKLIN—A picturesque cottage! Clean, good closets. One living area, good landscaping, carpeted. 3/1 . . . $19,000
GLENWOOD—This family home features 2 living areas. Kitchen is carpeted. New furnace, paint and rfg. air. 3/Hollywood . . . $37,500
GULF—Gameroom! Built-in bar! New wallpaper! Kitchen w/built-in grill! You'll find all of these attractions at this address. 4/1½+gameroom . . . $68,000
HAYNES—A living area. Controlled yard. Extra parking in back. Touches of Mexican decor accent this unique, executive home. Atrium, built-in china cabinets. Master has sunken tub, large BR is Rfg. 4/2 . . . $175,000
HOWARD—A unique home accented by crystal chandelier, glazed tile floors, wall mural, extra parking & magnificent home. Rfg. 4/3 . . . $132,000
HAYNES—TOWNHOUSE. Drapes, wallpaper and carpet in vibrant tones. One living area, dining, FP, outside storage. Rfg. 3/2½ . . . $89,750

INVESTMENT
HAYNES—Lovely duplex with above average space and quality. Exceptionally nice in every way. A real jewel! Rfg. 3/2½ . . . $156,800

"I"—Comfortable and tastefully decorated. Good storage. Paneled den w/built-in bookshelves. FP. Rfg. 4/2 . . . $63,500
LAREA—Comfortable and livable in a country setting. Large 1 living area w/Italian marble FP. Spacious dining. Rfg. 3+/1-¾ on 8 acres for $8,500 or house + 2 acres . . . $70,000
MEADOWBROOK—New home. Master has separate dressing areas, tub and shower. Selections are over builder's allowances. Gameroom. Rfg. 4/3 . . . $108,500
NEELY—Comfortable home in a lovely location complete w/grape vines & fruit trees. Hot water heater & DW recently replaced. Guest house w/¾ bath. 2/1-¾ . . . $49,750
NEELY—New furnace & rfg. air at this address. 2 living areas w/FP. Covered patio. Lovely earthtone carpet. Rfg. 3/1-¾ . . . $58,500
NORTHRUP—A custom Santa Fe w/many extras. Skylights in master, kitchen & baths. Small back yard. Lots of fresh paint. Rfg. 3/2 . . . $67,500
NORTHTOWN CT.—One living area home in super location. Decor in golds, custom drapes. Cathedral ceiling w/corner FP. 4/2 . . . $66,700
NORTHTOWN PL.—New home. Gameroom. Sequestered master w/large bath, walk-in closets. Lovable floor plan earthtones. Rfg. 4/3 . . . $108,500
NORTHTOWN—Beautiful 2 living area home for a growing family. Sprinklers and bubblers. Each BR has bath. Custom drapes, butcher block formica, lovely panelling in den. Rfg. 4/3+ gameroom . . . $130,000
NORTHTOWN PL.—Pretty oval windows. Enclosed gameroom. Extra lighting throughout. Sequestered master, lovely paneling. Rfg. 4/3 gameroom . . . $108,500
PLEASANT—Well kept home w/rfg. air. Large utility, pretty kitchen paper, one living area. Rfg. 3/1 . . . $25,000
PRINCETON—Large spacious home in a beautiful neighborhood. Pretty decorating. Lots of built-ins throughout. Rfg. 4/2½ . . . $79,900
RACQUET—Elegance throughout. Formal living & banquet sized dining. Lovely master suite w/sitting area. Fp. Superb landscaping . . . CALL
SCHARBAUER—CONDOMINIUM overlooks swimming pool. New flooring, wallpaper, formica. New frost free refrigerator. Rfg. 2/1-reduced . . . $34,900
SPARTAN—New construction featuring lovely decor & energy saving features. Rfg. 3/2 . . . CALL
STANOLIND—An exceptional custom-built home featuring grooved paneling, 2 living areas, terrazzo flooring. Apartment has 2 large rooms & 1 bath. Rfg. 3/1-¾ . . . CALL
STANOLIND—Freshly cleaned & ready for the right buyer. Extremely large master. Lovely yard w/dog run. Rfg. 4/2-¾ . . . $85,000
SUTTZ—A great family home complete w/excellent landscaping. Den has vaulted ceiling, beautiful paneling & built-in bookcases. Lots of storage. Rfg. 4/3 . . . $116,000
SUTTZ PL.—Warm family home in prime location. Open flow living/dining. Paneled den w/built-ins. Sequestered guest BR w/bath. Rfg. 4/3½ . . . $98,950
SUTTZ—Redecorated w/new wallpaper. Mexican tile floor in foyer & den. Good landscaping on this corner lot. Rfg. 4/2 . . . $83,500

LAND
6 ACRES—Excellent building site in Ridge Heights-offers . . . $15,000
S. MIDKIFF—2 acres w/field & fence . . . $16,000
TERLINGUA—40 acres w/hunt club privileges & lodge . . . $9,000
WARREN ROAD—Approx. 35 acres planted in alfalfa. 7 water wells & 4" irrigation pipe system. Some underground. Offers . . . $69,500

Louise Culver, GRI 682-9825	Betty Ford 684-4177	Lunelle Zeeck, GRI 684-5170	Laura Manulik 683-2327
Sarah Crowe 694-8302	Patsy Bohannon, GRI 682-2203	Pat Orseth 694-7343	Joan Raney 684-6844
Juliene Richards, GRI 682-2786	Delores King 682-3145	Liz Adams 682-6065	Helen Pogue 682-7513

RELO WORLD LEADER IN RELOCATION

BERRY, REALTORS
Multiple 2810 W. Ohio 697-4161

SPARKLING CLEAN 3 br., 2 bath, Brick, range, nice carpet & drapes, plenty of cabinets, 2 outside storages, $31,000.
NICE 3 Br., 2 bath mobile home set up on City lot. See to appreciate.
HORSE LOVER'S DREAM, 3 acres sewn in permanent grass, well, barn, corrals and loading chutes, close in, $12,000.
GREAT INVESTMENT Potential near down town, 2 houses on large corner lot, $57,500.
JONES HOTEL on S. Lee, 27 rooms & 13 baths, Call
CAFE FOR RENT, fully equipped, fixtures, cooking utensils, etc.

CALL THE HOMEFOLKS TO SELL, BUY OR RENT

Helen Holt, 684-6207 Horace Berry, 697-4161
Guy Berry, 694-6345 Dick Buckland, 683-5037

BROWNING REAL ESTATE

Just Listed! SHANNON: 3 bedrooms-1 2/4 baths-living room-dining area-breakfast area-den-large sunroom or rec. room-near Fannin school . . . LOW $60s

For Lease-Executive home near Museum-3 bedrooms-3 baths-basement recreation room with fireplace-excellent entertainment areas throughout beautiful yard . . . CALL

E.K. & ERNESTINE BROWNING
MLS 683-1923 REALTOR

80 Houses for Sale

A House Sold Name

DON HARVEY
MEMBER HOMES FOR LIVING
REALTORS
702 ANDREWS HWY MLS OFFICE 683-5333

RESIDENTIAL PROPERTY

Dawn Cr.-4-3, 2 fp., ref., 2 gar., patio, skylights, gazebo	135,000
Chatham-4 br., 3½ ba., den, frpl., patio, 2 car gar., bar	118,000
Pecan-3 br., 2½ ba., frpl., ref., 2 car gar., patio, inter-com	108,000
Dartmouth-4 br., 3 ba., den, ref., 2 car gar., frpl., patio	99,900
Marmon-4-1¾, frpl., ref., 2 gar., enclosed patio, trees	98,500
Northtown-4 br., 3 ba., den, frpl., ref., patio	97,900
Dartmouth-3 br., 1¾ ba., frpl., den, ref., utility, 2 gar., patio	97,900
Northtown-4 br., 2 ba., den, frpl., ref., utility, 2 gar., patio	97,900
Fairfax-5 br., 2¾ ba., den, frpl., patio, lots of space	96,960
Dalton-3-2½, frpl., ref., utility, vaulted ceiling, lg. br's	95,500
North "N"-3 br., 2½ ba., frpl., ref., 2 car gar., patio, court yard	84,500
Stutz-4 br., 1-2¾ ba., den, frpl., ref., patio, utility, 2 car gar.,	84,500
Rebel-4-1¾, den, fp., 2 gar., patio, new carpet	81,500
Ohio-3br., 1¾ ba., den, 2 fp., ref., 2 CP, well, hobby rm,	80,600
Sentinel-4-2, frpl., ref., 2 gar., patio, custom built, nice	79,000
Maxwell-3-1 3/4 + 1/2 ba., frpl., ref., den, patio, 2 car gar., bar	78,900
Moss-3 br., 1¾ ba., frpl., ref., patio, planted atrium, attic	76,900
Whitney-3 br., 2¾ ba., den, frpl., ref., 2 large gar., nice	76,900
Cape Cod-3 br., 1¾ + ba., frpl., ref., 2 gar., skylight in kit.	74,650
Metz-3 br., 1¾ ba., ref., den, frpl., 2 car gar., clean	73,800
Shandon-3 br., 1¾ ba., frpl., ref., 2 car gar., den, bay windows	72,500
Michigan-5 br., 3 ba., den, 2 frpl., ref. & evap., 2 rental apts.	71,500
Kansas-3-1¾, den, frpl., ref., 2 gar., patio, seques. MBR	68,800
Douglas-3 br., 1¾ ba., den, utility, 2 patios	67,900
Lockheed-3 br., 1¾ ba., den, frpl., ref., 2 car gar., patio	66,500
Huntington-4 br., 2½ ba., den, frpl., ref., patio, attic, nice	65,000
Ward-3 br., 1¾ ba., frpl., ref., patio, 2 car gar., wood fence	62,950
Dengar-3 br., 2 ba., den, ref., 2 gar., patio, frpl., location gd	62,500
Storey-3 br., 1¾ ba., den, frpl., ref., 1 car CP., custom built	59,300
Godfrey-4 br., 1¾ ba., ref., den, frpl., 2 car garage	58,900
Jordan-3-1¾, frpl., ref., patio, 2 gar., vaulted ceiling	58,000
"J"-3 br., 2 ba., den, frpl., ref., patio, 2 car gar., well	57,900
Gulf-4 br., 1¾ ba., den, frpl., evap., patio, 2 car garage	56,900
N. "L"-3 br., 2 ba., den, frpl., ref., patio, 2 car gar., clean	56,000
Greenbriar-3 br., 1¾ ba., frpl., den, ref., 2 gar., patio, attic	56,000
Denton-3 br., 2 ba., den, frpl., ref., patio, 2 gar., fence	55,900
Cimmaron-2 or 3 br., 2 ba., den, ref., 2 gar., rock frpl	54,250
Fannin-3 br., 1¾ ba., frpl., evap., 2 gar., patio, bay window	53,500
Cimmaron-3-1¾, frpl., ref., patio, 2 car gar., house painted	52,500
Shell-3-1¾, ref., 2 gar., patio, bay windows in BK room	52,000
Fannin-3-2, den, ref., patio, new carpet, very clean home	51,000
Shandon-4 br., 2 ba., den, ref., patio, 1 car gar., 2 story	49,950
Dengar-3 br., 1¾ ba., den, ref., frpl., 2 car gar., covered patio	49,900
Princeton-3 br., 2 ba., evap., rec., rm., den, w/well	46,500
Thomason-3-2, evap., patio, w/well, very pretty, dishwasher	46,500
Willowood-3-1¾, frpl., 2 gar., patio, wood fence	46,500
Carpenter-2 br., 1½ ba., mock frpl., ref., patio, clean, trees	45,000
Dormard-3 br., 1¾-ba., frpl., ref., patio, fresh paint, water well	45,000
Western-3-1¾, ref., patio, utility, 1 car gar., mirror walls	45,000
Michigan-3 br., 1¾ ba., ref., patio, 2 car gar., parquet flooring	45,000
Club-3 br., 1¾ ba., 1 car gar., w/well, nice yd	43,000
Storey-3 br., 2 ba., frpl., evap., 2 patio's, one is astro turfed	42,500
Sinclair-3 br., 1¾ ba., ref., patio, 2 gar., wood fence	42,500
Storey-3 br., 2 ba., 1 liv. area, evap., 1-cp., Lanai type patio	42,500
Storey-3-2, den, Ben Franklin frpl., patio, fence, utility in kit	41,500
Boyd-3 br., 1¾ ba., evap., 2 car gar., W/W, covered patio, attic	41,500
Storey-3 br., 1¾ ba., ref., patio, 2 car gar., a lot of new	41,500
Delmar-3 br., 1¾, den, evap., 2 gar., attic, nice yd., clean	41,500
Mercedes-3-2, evap., patio, 2 car gar., smoke alarms, cute	40,000
Harlowe-3 br., 1¾ + ½ ba., frpl., den, 2 evaps, sunken lr	39,500
Kansas-3 br., 1¾, frpl., evap., 2 car cp, patio, new paint, 2HWH	39,000
Stanolind-3-2, den, evap., patio, 2 gar., new HWH and evap	38,900
Harlowe-3 br., 1¾ ba., evap., patio, 2 gar., sunk. LR, storage	38,500
Eastwood-3 br., 1¾ ba., den, evap., 1 car CP, large kitchen, nice	38,500
Homsley-3-2, evap., patio, utility, nice house, nice lignung	37,500
Anetta-3-1¾, den, frpl., evap., 1 gar., wood fence	36,500
Monty-3-1¾, evap., 2 gar., den, nice, clean property	35,950
Mariana-3 br., 1¾ ba., den, ref., patio, 1 car gar., lg. closets	35,000
Delmar-3 br., 1¾ ba., ref., 1 car gar., patio, water well for yard	34,750
Amigo-3 br., 1½ ba., den, ref., nice patio & landscaping, well	34,600
Mercedes-3 br., 1¾ ba., ref., patio, 1 car gar., wood fence	34,500
Travis-3 br., 1 ba., den, ref., gas frpl., patio, 2 car CP., utility	34,500
Anetta-3 br., 1¾ ba., den, evap., 1 car CP, wood fen., new roof	34,500
Dewberry-3-1¾, evap., 2 gar., wd. fence, cute, clean home	34,500
Hamby-2-1, evap., porch, 2 duplexes rent can pay mortgage	34,500
Third-3 br., 1 ba., ref., 1 gar., total elec., chain link fence	34,000
Leddy-3 br., 1¾ ba., evap., patio, 1 car CP, new HWH,	33,500
Sprayberry-3-1, den, evap., 1 car gar., gas refg. unit, wd. fen	32,500
Graceland-3-1¾, frpl., evap., patio, wd. fen., mexican tile	32,000
Brunson-4-2, evap., mock gas frpl., 2 wells, apt. for rent	32,000
Boyd-3 br., 1¾ ba., evap., patio, utility, cinder block fence	32,000
Storey-2-1¾, frpl., den, evap., bar area, wood and CB fence	30,500
Cedar Springs-3 br., 1½ ba., study, frpl., ref., good potential	28,800
Alford-3-1¾, evap., patio, new HWH, attractive home	28,500
Louisiana-3-1, evap., new HWH, lavatory & faucets new	28,500
Thomas-3 br., 1½ ba., evap., gravel roof, concrete block fence	28,500
Kessler-3 br., 1 ba., mock frpl., evap., patio, great location	25,000
Terrell-2 br., 1 ba., ref., 1 car gar., chain link fen..., nice yd.	25,000
Oak-3 br., 1¾ ba., evap., patio, paneling, wood fence	23,500
Gaston-3 br., 1 ba., evap., den, hardwood floors,

80 Houses for Sale

Roberts Realtors

Member MLS

JoAnn Ward 694-1340
Dene Kelly, GRI 694-8261
Phyllis Gifford 682-0390
Pauline Turney 694-7987
Carolyn Rogers 694-0134
Margaret Burney 694-2683
Becky Winkler 697-2027
Nova Roberts 697-5804
Cleta Kelley 697-5384

1400 W. WALL YOUR SATISFACTION IS OUR OBJECTIVE 683-4686

$ 3708 OHIO 2 bed. 1¾ bath 2 garage $55,000. $2,750. down $
$ 3710 OHIO 2 bed. 1¾ bath 2 garage $55,750. $2,800. down $
$ 3712 OHIO 3 bed. 1¾ bath 2 garage $55,000. $2,750. down $
$ 3714 OHIO 2 bed. 1¾ bath 2 garage $55,750. $2,800. down $
$ 300 McDONALD 3 bed. 1¾ bath 2 garage $55,750. $2,800. down $
$ Heat pumps, 95% Conventional Financing available, plus clos- $
$ ing. Paved alleys, in Fantastic Oxford Heights. $

DALTON	Quality throughout. Beautiful new two story home by Dove Construction, 4 bed., 3 ba., study & total electric. Pick your colors.	$106,000.
SENTINEL	Pure pleasure is waiting for the new owner of this 4 bed., 3 ba. home Decorated in	$85,000.
PRINCETON	Owner Anxious. Beautiful custom built home w/sunken living, brick floors, double fireplace, cedar closet. Beautifully landscaped.	$76,500.
GREENWOOD SCHOOLS	Owners gone. Large heated pool, 4 bed., 1¾ ba., 2 fireplaces on 5 acres. Only $12,000 equity and assume $560.00 mo. payment.	$68,100.
LAURA	Custom built for builder, large 1 living area, Mexican tile, skylight, formal dining, fireplace, ref. air and in excellent condition.	$62,500.
SPARTAN	Decorated in soft tones & only 1 year old. Sprinkler system, 2 living areas, 1¾ ba., kitchen w/builtins & 2 car garage.	$56,500.
2 BEDROOM TOWNHOUSES	Unusual floor plans, small yards, 1 living areas, vaulted ceilings, large kitchens, storage everywhere. Only $2,800 down plus closing.	$55,750.
McDONALD	New home by Capri, decorated in earth tones & rust, formal dining, 3 bed., 1¾ ba., utility room. Only $2,800 down plus closing.	$55,700.
OHIO	Beautiful Patio home w/skylights in utility room & bedrooms, 3 bed., 1¾ ba., large living area. Only $2,800 down plus closing.	$55,000.
MARIANA	Walk to church, schools & shopping. Large home in excellent condition with fireplace, 4 bed., 3½ baths & 3 car garage.	$52,000.
LOUISIANA	Charm & Personality throughout. Beautiful older home in excellent condition w/2 living areas, 3 bed., 2 ba., water well & workshop.	$47,900.
HARVARD	New listing in excellent condition. 3 large bed., 1¾ ba., 2 living areas, extra insutation & 2 car garage. Only $2,300 down plus closing.	$46,000.
GULF	Excellent area, walk to Lee & Rusk, 3 bed., (Large master suite) 1¾ ba., 2 living areas. Only $2,250. down plus closing.	$44,500.
HARLOWE	New listing, all this for so little, sunken living & dining, den w/fireplace, ref. air, 3 bed., 1¾ ba., new water well, in excellent condition.	$43,000.
PARKDALE	Nice home in excellent condition. Sunken living & dining, 3 bed., 1¾ ba., 2 car garage. Only $2,125. down plus closing.	$42,500.
MICHIGAN	This home needs a large family, 3 oversize bed., 2 ba., den, utility room. Only $9,800. equity & assume $326.00 monthly payment.	$41,500.
COUNTRY ROAD 143 WEST	Only $1,000. down plus closing for Veterans. New home on 2 acres, Open & airy, Unusual floor plan, 3 bed., Utility, Kitchen w/builtins.	$41,500.
ERIE	Nice corner lot, beautiful celery carpet & paneling throughout, fresh paint, 3 bed., 1¾ ba., dining area. $6,300. equity & assume payment.	$40,000.
THOMASON	REDUCED, owners ready to move. Nice clean home, close to schools, beautiful yard, 3 bed., ref. air. $1,850. down plus closing.	$36,500.
THORNRIDGE	In excellent condition & ready for new owners, 1 living area, w/3 bed., 1¾ ba., fresh paint, 2 car garage. Only $3,500. total move in.	$34,000.
DORMARD	Nice brick home in excellent condition, 3 bed., 2 ba., den, formal living & dining. Owner will sell FHA or VA.	$31,500.
CEDAR SPRINGS	Nice home w/3 bed., 1½ bath, front kitchen, large pantry, 1 car garage. Equity of $9,800. & assume $171.00 mo. payment.	$26,500.
CUTHBERT	A swinging Pad for bachelor lad or nice little house for a man & his spouse. Sunken living, 2 bed., $5,600. equity & assume $206. pmt.	$25,300.
TERRELL	You must see to believe, in excellent condition w/large kitchen & living room, 2 large bedrooms. Only $600. down plus closing.	$19,800.
KENTUCKY	NEW LISTING, Nice older home w/2 large bed., large living area w/formal dining & detached garage. Owner will sell FHA or VA.	$20,000.
PINE	Owner will sell FHA or VA. No down payment to Veterans, nice 3 bed., 1¾ baths, 1 car garage.	$17,500.

$ 4817 RIC 3 bed., 2 baths, 2 garages $2,250. down $44,500. $
$ 4815 RIC 3 bed., 2 baths, 2 garages $2,250. down $44,500. $
$ 4807 RIC 3 bed., 2 baths, 2 garages $2,250. down $44,500. $
$ 4803 RIC 3 bed., 2 baths, 2 garages $2,200. down $44,000. $
$ 414 STONEYBROOK, 3 bedrooms, 2 baths, 2 garages. $2,250. $
$ down $44,500. $

STANTON, TX. 140 acres, 2 water wells, 218 gpm for $140,000.—OFF TOWER ROAD on 180 West, 10 acres for 15,000. NORTH BIG SPRING—lot for $65,000. SOUTH OF TERMINAL 10 acres w/frontage, near T1 plant for $18,500.—RIDGE DR & LAMESA RD, 64 acres for $160,000.—8 ACRES off E. HIGHWAY 80 for $8000.—2 MOBILE HOME lots, fenced for $8,000. LOTS IN GREENHILL TERRACE AVAILABLE.

THREE bedroom, 2 bath house. 1 ½ years old. Large sequestered master suite, one living area. Large fenced backyard. In Stanton, 1 block from schools. Call 694-1608 or after 7, 756-2277.

EXECUTIVE HOME

3 bedroom, 3 bath, formal living room, dining room, basement den-recreation room. For further information call:
BROWNING REAL ESTATE
683-1923

NEW LISTING

3 bedroom or 2 living areas. Separate dining, snack bar. Beautiful carpet and drapes throughout. New roof, fresh paint, refrigerated air one year old, double carport plus garage, water well. High $20s.
684-8558

81 Suburban Homes

* HORSE LOVERS DREAM

Barn with 4 stalls, great corral. Three bedroom, brick home with fireplace. Lots of extras. TALK TO NORMA DAVIS, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 682-0879.

GREENWOOD SCHOOL DISTRICT
Cozy 3 BR, bath, 2 car garage home with 10 acres & plenty of water. Barns & pens. Separate set-up ready for mobile home. ALL of this very reasonable. Call GLORIA LOTT, Assoc., 694-0421.
CHARLIE LINEBARGER, INC. Realtors 683-6331

*!!REDUCED!!

True country living, 3 bedroom, country kitchen, large utility and office. Green house, 3 large sprinklered gardens, fruit trees, barn/workshop, many extras, must see to believe. Under $45,000.00 TALK TO SUZI KNIGHT, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 684-4205.

82 Out of Town Property

* STANTON

Reduced price on this 3 bedroom home, 1½ baths. Carpeted, refrigerated air. Nice yard. $37,500.00 TALK TO KAY SUTTON, Associate, DON HARVEY, REALTORS, 683-5333. Evenings, 694-8640.

THIS IS IT

Trees, trees, trees; access to the spring-fed Llano River; country living, but only 5 minutes to town of Llano. This area former camp ground of Indians due to abundant game, water and large oak trees for shade. This five acre tract can be yours for only $300 down plus low monthly payments. Owner financed; 8¾% interest. Call collect 915-247-4128.

LARGE two story frame house in Big Spring to be moved. Approximately 3,000 sq. ft. 9 rooms plus 2 baths. $8,500. Call 263-7676, Big Spring, 9 to 6 weekdays only.

16 acres of Hill Country Hunting-Near Hunt, Texas. Lots of game, heavily wooded. $200 down. Owner financed. Easy Terms. Phone 512-257-5369 after 7:00 PM.

Classified Advertising Dial 682-6222

THE MOORE, realtors

2701 W. Louisiana MLS 682-0505 ANYTIME

CUTHBERT—Large older home, 3/2 den, w/w $40,000
ILLINOIS—3/1, huge den, w/w $32,500
HOLLOWAY—3/1 plus rental unit $40,000

INVESTMENT PROPERTIES

TERRIFIC COMM. LOT—On Andrews Hwy ..... CALL
TWO RETAIL BLDGS.—Village, Approx 2,000 sf. ea .... CALL
TRAILER PARK—Good income, 2 gd. wells ..... CALL
DOWNTOWN COMM. LOTS ..... CALL
ACREAGE-ACREAGE-ACREAGE—In all directions ... CALL
JEAN MOORE 682-0505

The right signal to call WANT ADS TO WORK is 682-6222

83 Lots & Acreage

o.j. KNIFFEN REAL ESTATE

Office 682-4878

184x140 corner lot, zoned LR-2, North Big Spring St. Also others. 1 1/4 acre & up, restricted, close-in, good water.
For Industrial & Commercial Property, Call:
s.l.camp 366-8749 (Home) o. j. kniffen 682-6339

82 Out of Town Property

FLASH

110 acres located 10 miles N.W. of Richland Springs. Has about 20 acres of crop land. Some native pecan trees. Price $385 per acre, only $4,350.00 down, balance at 9¾ percent interest.

Exclusive—Two story, 4 bedroom house here in San Saba. Has 3 baths, spacious living room and dining room, all carpeted. Central heat downstairs, can central cool for a minimum cost. Has a two car garage and large storage area. Only $47,500.00.

SAN SABA COUNTY—Why not move where there is better than 500 miles of running streams? (14 Tracts) ranging from 14 to 30 acres. Only two miles from San Saba, situated on good roads. Community water available at each tract. Can sell smaller or larger tracts. Owner financing or all cash. Some wooded and some field area.

Gene Faubion, Realtor
Office Ph. (915) 372-3615
Res. 372-5074
P.O. Box 787, San Saba, TX 76877

83 Lots & Acreage

ZONED MULTI-FAMILY

Acreage on Midland Drive, 9.52 acres. Large lot on W. Dormard, $8,500.
684-5647

SMALL tracts, Garden City Hwy. In Greenwood School District. 697-3506.

3.97 acres or more in Northwest Midland. Restricted. No move ins. The best in Midland and Odessa areas. 563-0239, 694-5559.

13 acres Kerrville area, good hunting, lots of trees, access to Guadalupe river, $200 down owner financed. (512) 896-2526, after 7:00 P.M. (512) 257-3001 or (512) 257-6411.

41 acres in Greenwood School District. 80 GPM, 60 GPM and 30 GPM wells. Road on North and South side. A developers dream. Priced to sell. Country Realty. 684-9020.

SMALL tracts for sale by owner. Located directly between Midland and Odessa, north of Air Terminal. Restricted. (915) 684-8831 or 684-7959.

TWO acres with good well north edge of city. Restricted area. Close to Polo Grounds. Appraised for $8,000, bank will finance. Firm investment. Call after 6 PM 563-3019.

5 acres in Greenwood school district. Good water well. Financing available. Call Country Realty, 684-9020.

WANT to buy residential lot. Approximately 70x110 in north Midland. Call 694-5879.

349 RANCH ESTATES

Extra large Residential and also Mobile Home lots in restricted subdivision, located across from Midland Country Club on Hwy. 349 — Just 10 minutes from downtown Midland. Financing available through developer. Field office open Saturdays, 1 PM to 6 PM, or by appointment. Craig Lewis, 684-3881.

MURPHY & ROCHESTER, INC.

4526 E. University
Odessa
362-0431 or 563-3023

60x160 mobile home lots, in Greenwood School District. Water wells, septic systems, electric. Will arrange financing. 694-1432.

ONE acre tracts, close in, Greenwood school district. No restrictions. Will arrange financing. Call 694-1432.

84 Farms & Ranches

32 acres hill country hunting, $450 per acre. Owner will finance, 5 percent down, 20 years at 7 ¾ percent simple interest. Call 1-800-292-7420.

844 acres scenic, hunting land. $85 per acre. Trophy deer, javelina and quail. Easy terms by owner. Call 1-800-292-7420.

SW TEXAS DEER RANCH

Near Del Rio 42 Ac. to 213 Ac. for $165 per acre. $10/Ac. down, low payments. Many deer, beautiful canyons, remote but paved access. Don Ellis, 106 Kings Way, Del Rio, TX 78840. PH 512-775-0731 or 512-775-9257.

adobe REALTORS, INC.

694-9548

114 San Miguel Square Multiple Listing Service

AINSLEE—Nice 3/2, new paint and wallpaper thruout $32,250
BEDFORD—Sprinkler system, shaded corner lot, soft warm colors in this 4/2 ..... $64,900
BEAUTIFULLY, PROFESSIONALLY DETAILED—Uniquely and distinctively designed quality home $150,000
BIG SPRING—Exploding with recent development, 3 choice commercial lots $86,000
BOYD—Formal dining, lots of new in this very livable 3/2 ..... $54,900
NORTH "C"—Pecan trees, 2 fp., 5/2½, lots of extras $82,000
CAROL LANE—Breathtaking view of Midland from this quality built 6 bdr home $120,000
CIMMARON—Lg. covered patio, heated pool, 4/2 ..... $52,000
CIMMARON—Great family home, just remodeled 4 bdr $62,500
COLORADO—Great downtown commercial corner lot $58,000
COLORADO—Commercial lot w/1 bdr house $48,500
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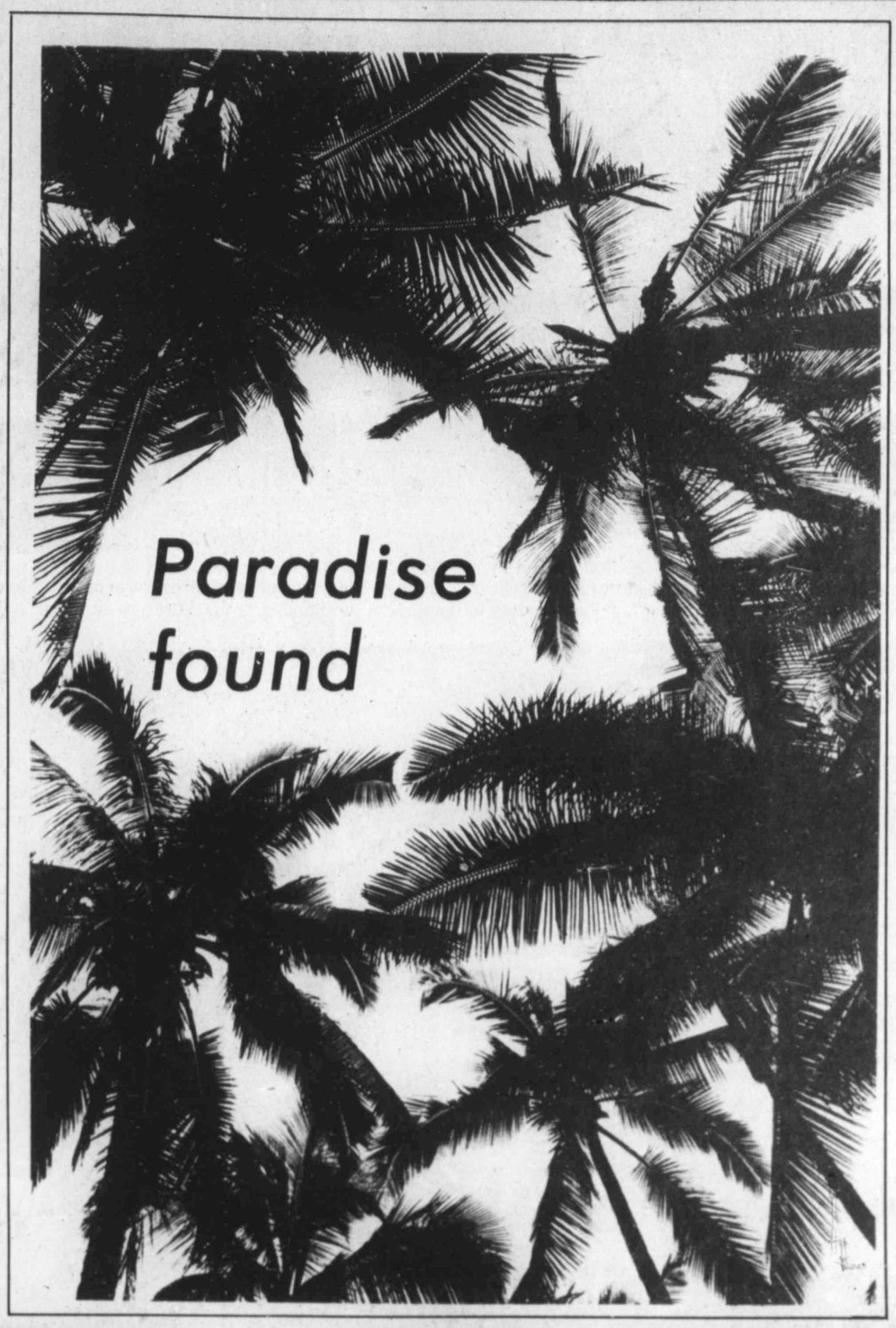
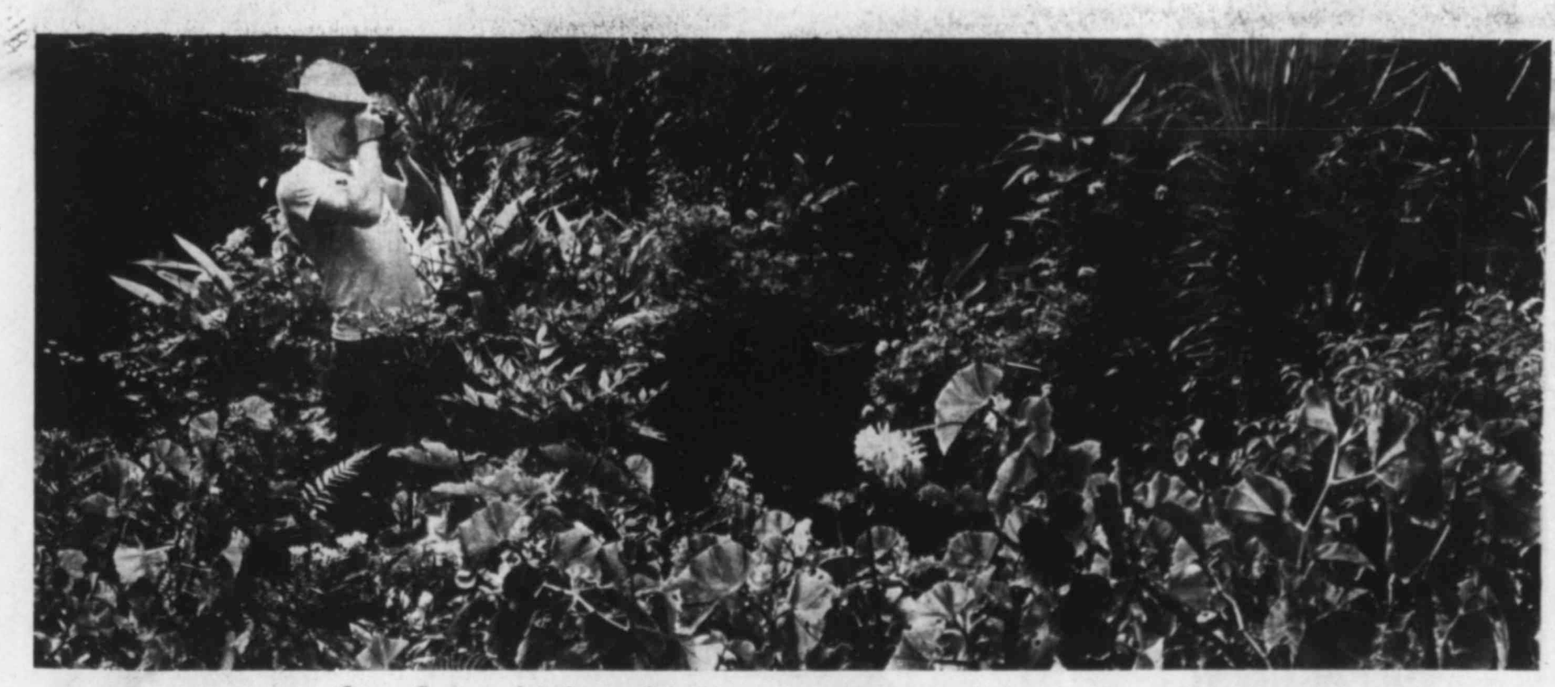


Paradise found

Edna Cox, of Andrews, finds a unique way of avoiding surf at the black sand beach of Kaimu.

Charlie Burns, of Crane, and Midland's Claude Fergusson, right, were behind bars soon after arriving in Hawaii. Ima Fergusson visits the pair, who, despite appearances, are in a Honolulu restaurant.



James Smyers of Andrews clicks his camera at Waioli Garden's multi-colored foliage.

Honolulu's throbbing hotel district lights up at twilight.

Story and Photos by BRUCE PARTAIN

Sitting in a tour bus headed for an extinct volcano, Tommy Ward of Balmorhea fingered the Hawaiian necklace that hung loosely around his neck.

The tiny seeds strung together looked like they might have come from inside an apple.

Tommy was exuberant.

"This is the best time I've ever had in my whole life," he proclaimed to his fellow passengers.

On board were 64 Permian Basin residents, enjoying their "dream vacation" on Oahu, the most populous of the eight Hawaiian islands.

For many, the recent trip was one of high expectations— tales of exotic foods, sights, and night life had intoxicated the entourage with a feeling that their eight days would truly be an escape to Paradise.

As the bus wound its way up the ancient volcanic flow, passing through spectacular subtropical garden displays, a light mist began falling, giving credence to the driver's remark that it took 180 inches of rainfall a year to keep the philodendrons shooting out their 3 foot leaves.

Stopping at the Salvation Army's Waioli botanical garden, where Robert Louis Stevenson's "little grass shack" has been placed, the group of Midlanders and area people resembled a pack of school children, jumping off the bus to dart about the greenery, snapping photos of one another.

Kermit residents Jean Wildman and Marie Butts let curiosity get the better of them, as they sneaked closer to the Waioli chapel, where a video tape crew was recording a Hawaiian wedding. The two ended up being an unplanned addition to the cast of characters, as the cameraman zoomed in on them.

Moving into the Punchbowl Crater itself, the Texas visitors grew more reverent as thousands of plain bronze grave markers came into sight.

According to Midlander Leon Lloyd, the cemetery — filled with Americans killed in South Pacific action — was relatively new.

When Lloyd served on the islands as a Navy yeoman in 1944 and 1945, a cemetery known as "Red Hill" was the Hawaiian burial grounds.

"There was row upon row of white crosses then," the Midland chemical supplier recalled.

"They had so many people who had relative's bodies sent back to the states that it became a hodge-podge, and they moved the cemetery up to the Punchbowl."

Lloyd and his wife Nita spent one day of their vacation driving with Gordon and Edna Cox of Andrews, testing Lloyd's memory of Oahu backroads and landmarks.

Mixing days of exploration with nights of "clubbing" at Waikiki entertainment spots became the routine of the tourists.

Ima Fergusson of Midland brought excited news after one evening of mai tais and steel guitars.

"I got to kiss Don Ho!" she exclaimed, retelling her on-stage escapades.

According to witnesses, Ima followed the famous Hawaiian singer about the stage, her hands hooked in his pockets.

"He sure can kiss!" she said, glancing towards her husband, Claude, for a reaction. "Doesn't bother me a bit," said Mr. Fergusson.

The Fergussons were celebrating their 56th wedding anniversary and presumably were secure in their relationship.

Big Lake residents James and Hazel Proffitt were surprised to even be in Hawaii, since they hadn't made any plans or bought any tickets for the excursion.

"Our daughter, Marsha Ellison and her husband Jamie bought us this trip as our 38th anniversary present," explained Proffitt, who is better known as the sheriff of Reagan County.

"She even went down to the hospital and arranged my vacation without me knowing about it," said Mrs. Proffitt, a registered nurse.

The West Texas group visited the Polynesian Cultural Center, Waimea Falls Park and "fried on the beach" at Waikiki. One day was spent on a quick flight and exploration of the more active volcanos on "The Big Island" of Hawaii.

Reactions to the different islands varied, but many felt, as Midland's Betty Moreland said, that "the final luau was the most entertaining part of the trip."

After washing down kelp and poi with the ever-present mai tai concoction, the Permian Basin bunch settled back to watch a South Seas variety show, which included dances from the Phillipines, a fire-walker from Fiji and a Hawaiian male singer who apparently had aspirations to being a Hawaiian Englebert Humperdinck. Some of the ladies attending were duly impressed, especially when he introduced his mother.

The festivities really got underway, however, when one Tommy Ward of Balmorhea took the stage, answering the call of a heavyweight comedy hula girl for volunteers.

"I finally got one my size!" announced the hula queen, who proceeded to instruct Ward and three others in the grass skirt technique.

Ward, a custodian for the Balmorhea School District, apparently was the star pupil, as he was asked to solo dance down the elevated runway coming off the stage.

"Hooo-wee! I'm havin' fun!" shouted the tall Texan.

Ward, who also made a point of being photographed with any available airline stewardesses, said later he was convinced the Hawaiian adventure changed his life.

"This will sure rile those cafeteria ladies back in Balmorhea, that's for sure," he laughed.

around town

By PATSY GORDON
R—T Lifestyle Editor

The Permian Basin Outing Club, a relatively new organization in the area, promotes outdoor activities, such as backpacking, mountain climbing, caving, camping and river running.

Families especially are invited to become affiliated with the group.

The October meeting will be held at 7 p.m. Tuesday in The Midland National Bank. All interested persons are urged to attend...

...**MRS. V. R. DRAKE,** a proud Midland grandmother, reports her grandson, Marty Lee Drake, son of Mrs. Norman Drake of Vernon and the late Mr. Drake, has received the honor of acceptance into the Society of Distinguished American High School Students.

Marty is a senior student in Vernon High School. He also is the grandson of the late V. R. Drake of Midland. Marty's grandparents came to Midland in 1933, when their son, Norman, was one year old. Norman was graduated from Midland High School and Texas A&M University, where he was named a Distinguished Student. He was a county agricultural agent two years before his death from leukemia...

...**MIDLAND ALPHA DELTA PI ALUMNAE ASSOCIATION** is planning a fall coffee to be held at 10 a.m. Wednesday in the home of Mrs. Clarence Chandler, 2819 Marmon St.

Alumnae new to the area are urged to contact Mrs. Andrew Bianchi, 684-9931...

...**MR. AND MRS. GENE DEASON** of Brownwood announce the birth of their daughter, Amy Catherine on Oct. 6.

Mrs. Deason, the former Valerie Chambers, is a child care licensing worker with the Department of Human Resources. Deason is editor of the Brownwood Bulletin.

The maternal grandparents are Mr. and Mrs. C. F. Chambers, Melody Acres, Midland. Mr. and Mrs. E. E. Deason of Greensboero, N.C., are the paternal grandparents...

...**MIDLAND ROSE SOCIETY** will met at 7:30 p.m. Thursday in the Midland Room of The Midland National Bank.

The program, "Carl Pool Products As Related to Rose Growers," will be presented by Dr. T. E. Spires, and should afford valuable information at the right time to get a good start in the rose garden for next spring.

Visitors are invited to attend programs of the society...

...**CINDY RIPLEY** of Midland, a junior student at Southwest Texas State University, has participated in "Fifties Week" activities at the university.

The week is sponsored by the Lyndon B. Johnson Memorial Student Center...

...**ANOTHER MIDLAND STUDENT,** Pat Harris, has been awarded a forensics scholarship for individual events and debate by Odessa College.

A 1978 graduate of Lee High School, Miss Harris is the daughter of Dorothy P. Harris of Midland. She received a first-place trophy in an after-dinner speaking event at a recent Oklahoma forensics tournament...

...**CHERYL CURTIS,** daughter of Mr. and Mrs. Sam T. Curtis of Midland, is a candiate for Miss Mary Hardin Baylor at Mary Hardin Baylor College in Belton.

The queen will be crowned Nov. 4 in the Mabee Student Center Shelton Theatre at the college.

Miss Curtis is a junior student and is representing the Royal Academia Society in the pageant. There are 21 young candidates for the honor.

Sex trends studied by university

MADISON, Wis. (AP) — A University of Wisconsin-Madison study of three generations of middle-class women's sex education shows that today's families are more open on sex, a taboo subject when grandma was a girl.

Iris Ruther Winogrond, working for her doctorate in educational psychology at the university, interviewed more than 240 women in three age divisions: 18 to 29, 32 to 59 and 60 to 90.

"Overall, the study supports the contention that increasing permissiveness across all age groups in the United States is more a sexual evolution than a revolution," she reports.

While most of the study's oldest women reported they learned "the facts of life" from their husbands, the middle-aged and youngest women said they learned from their families, with today's young college women giving credit especially to their mothers as their main source of sex education.

Nursing profession recognized

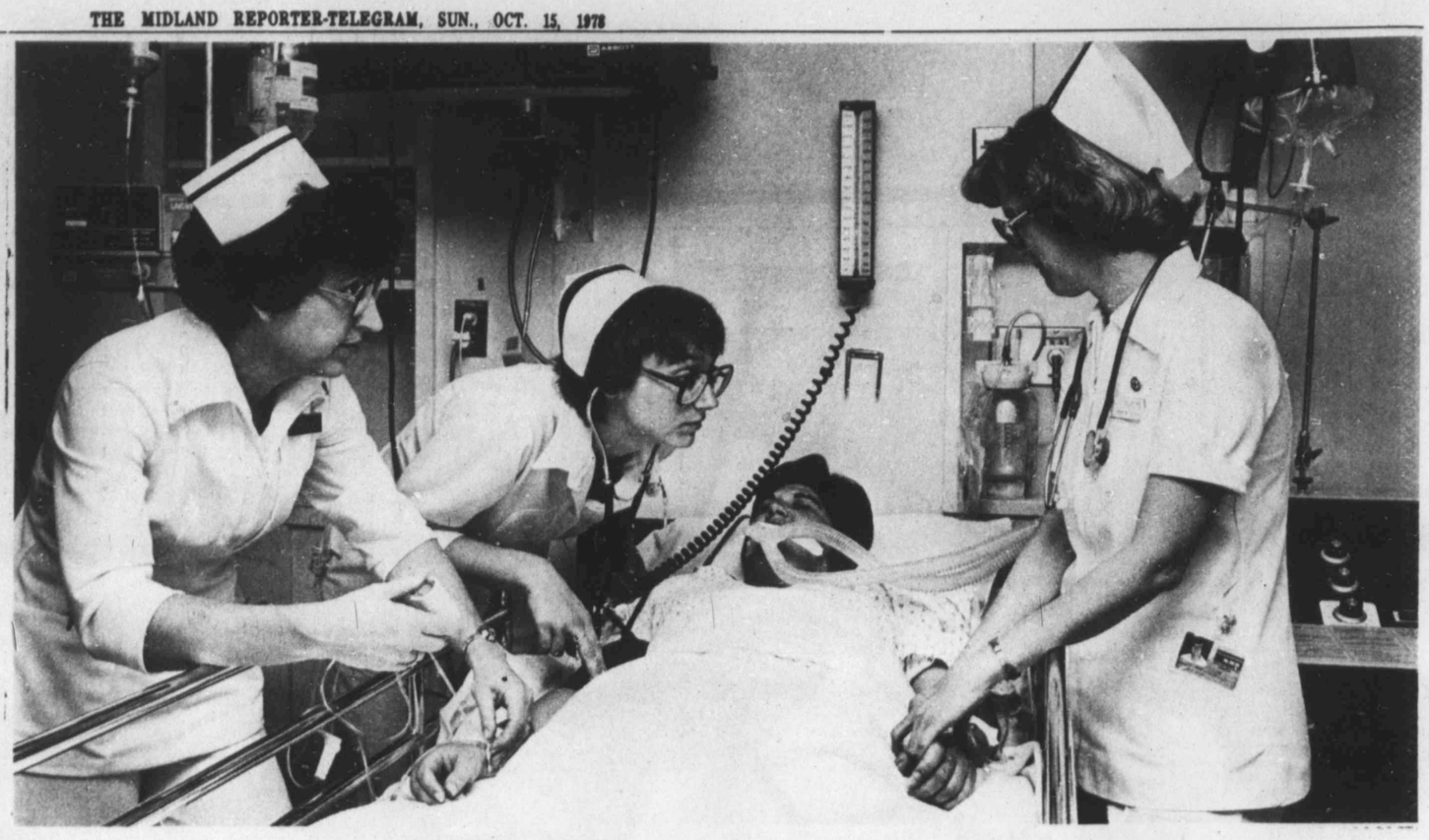
Texas Nurse Week, Oct. 15-21, has been declared to give special recognition to those in the nursing profession.

The Permian Basin chapter of the American Association of Critical Care Nurses will be sponsoring a symposium on Oct. 17 to be held at the Midland National Bank.

The annual banquet for all registered nurses in the Midland area will be held at Ranchland Hills Country Club at 7:30 p.m. Oct. 18. The program for the banquet will consist of a presentation titled "Bookeria" to be given by Louise Weegee Hunter of Roswell, N.M.

The Nurse of the Year from each of the Midland hospitals and a community service nurse will be announced and given special recognition during the banquet.

The nurses participating in the week's activities serve in many areas: the community nurse, hospital nurse, office nurse, industrial nurse, school nurse and nurses in administrative and teaching capacities.



Midland Memorial Hospital nurses from left, Romona Madison, Cheryl Vallie and Carol Shelley look over a patient in a critical care simulation. They and others in the nursing profession will be recognized this week, designated Texas Nurse Week. (Staff photos)

Altrusa observes birthday

The Altrusa Club of Midland, Inc., observed its 30th birthday at a luncheon in the Midland Hilton.

The Midland club was organized in August 1948 and was chartered Oct. 13 of that year. Katherine Shriver was the first president. Of the 25 charter members, five still are active. They are Bertie Boonie, Annie Ford, Caroline Simmons. These members were recognized by the program chairman, Elizabeth Grimm, who is chairman of Altrusa Information Committee, which presented the program. Mrs. Phillips and Mrs. Simmons cut and served the birthday cake, made and presented by Ann Hicks, club member.
by Ann Hicks, club member.

"Altrusa Bingo" was played by the members, with winners determined by the members able to answer the most questions about the Midland club.

Mary Alice Tidwell, president, spoke on District Nine's conference to be held in Sherman Thursday through Saturday. Assisted by the Midland Chamber of Commerce and the Midland Hilton, the Midland club will bid for the 1982 conference. Miss Tidwell and Myrtlene Bearden are the club's delegates to the conference, and Mrs. Grimm and Mrs. Keisling are alternates.

Debbie Gleason, chairman of Community Service Committee, reported club gifts for the Big Spring State Hospital should be taken to Loletta Guffey no later than the next club meeting, and that plans were continuing for block parties for the crime check project. Margie McCain, chairman of International Relations Committee, reported on the club's participation in the Midland schools' Partners in Reading program, noting the need for volunteers for this project. She said the committee also will be sponsoring a linen basket to be displayed in the Dellwood Plaza Mall Nov. 4 as its fund-raising project.

Susan Edwards, who is chairman of the Vocational Services Committee, announced the advocacy booklet being prepared by the committee as a club project is almost ready to go to press, and it is hoped the booklet would be ready for public presentation the first of the year.

Miss Tidwell announced the club will have a booth in Dellwood Plaza Mall Nov. 4 to sell hammers, cutlery, cards and other Christmas items as its fund-raising project.

Dona Stacy was recognized as the club's newest member. Guests were Lois Hearn and Desiree Johnson of Gulfport, Miss., houseguests of Thelma and Roy Gardner.

The International Relations Committee will present the program at the meeting at noon Oct. 26 in the Midland Hilton.

Service group hosting district meeting today

Beta Omega Chapter of Epsilon Sigma Alpha International, service organization, is hosting a district meeting today in the Granada Club, 3312 W. Wall St.

Registration begins at 10 a.m. Lunch will be served at noon, with the business session starting at 1 p.m.

ESA members from Andrews, Big Spring, Fort Stockton, Kermit, Midland and Odessa make up District VIII.

The Cystic Fibrosis Foundation, District VIII's service project, will give a presentation about its work and possible projects.

Persons interested in ESA may contact Marilyn Yeager, 684-7023, or Patty Cooper, 697-1852.

Nurses in Midland Memorial Hospital's Newborn Intensive Care Unit, from left, Felecia Floyd and Thelma Conally, are required to keep up with new advances in nursing. Through the hospital's in-service department they and others of their profession are offered workshops, symposiums, scheduled weekly classes and teleconferences.

AGS
Gem-Wise
Jewelry fashions, facts, fictions
BY
LEE MAJORS
REGISTERED JEWELER
AMERICAN GEM SOCIETY

THE SPECIAL EFFECTS DEPARTMENT

Light unlocks the beauty in gemstones. Not only is it responsible for the rainbow of colors, sparkle and dispersion which catches the gem lover's fancy, but it is also the cause of the mysterious special effects we call gemstone phenomena.

The reflection of light is responsible for several interesting effects. Light reflecting off the fibrous structure in tiger's eye produces a silky sheen. Chatoyancy (the cat's eye effect), a well-defined band on the stone's surfact that opens and closes with the right movement, is caused by the reflection off tiny crystals, tubes or cavities within the stone. Several stones exhibit chatoyancy, but chrysoberly cat's eye is the most highly prized. Asterism (star effect) is caused by conditions similar to those which prompt chatoyancy, but in this case the needles intersect at 60° angles. Star ruby and star sapphire are the best examples of this phenomena. Aventurescence is a metallic spangled effect caused by the reflection off tiny platelets or flakes of an included mineral in the host material. Aventurine quartz, sunstone feldspar and golden coral exhibit this effect.

The special effects story will be continued in our next article. Space limits the depth to which we can carry the subject in this column. However, if you would like to learn more, please feel free to stop by the store.

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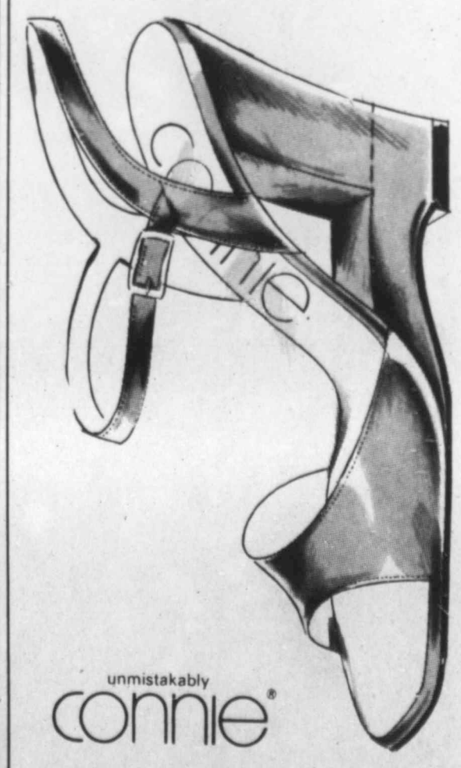

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Marion Kimberly, 1978 Woman of the Year of the Uptown Business and Professional Women's Club, discusses plans for National Business Womean's Week, today through Saturday, with Midland Mayor Ernest Angelo Jr. (Staff Photo)

National Business Women's Week to honor Midland's Woman of Year

Midland Mayor Ernest Angelo Jr. has signed a proclamation designating the week of today through Saturday as National Business Women's Week.

The Uptown Business and Professional Women's Club is taking this week as an opportunity to honor its 1978 Woman of the Year, Marion Kimberly.

The Woman of the Year Award is presented in recognition of outstanding career achievement and assistance given to other women in promoting their career development.

The 1978 recipient is in private practice as an individual, group and career counselor. She conducts management development, assertiveness training and career development classes for Midland College and the Permian Basin Graduate Center. She received her bachelor of arts degree from Mount Holyoke College and her master of arts degree in counseling and psychology from The University of Texas-Permian Basin.

She is the 1978 first vice president and program chairman for the chapter. She is married, has three children and has lived in Midland 15 years.

Educators meet for supper

The Zeta Xi Chapter of Delta Kappa Gamma International, society for women educators, met in the home of Mrs. R. L. Williams, 3206 Lockheed St., for a covered dish salad supper. Co-hostesses were Norma Ross, Pat Morgan, Dolly Benson and Betty Depew.

Mrs. Gary Hall and Mrs. Keith Morgan led the group in singing. Special prizes were won by Dorothy Thompson and Ada Russell.

Plans were made to attend the area workshop in October.

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Zinfandel tasty wine

By TOM GABLE
Copley News Service

If you are looking for a sound red wine with both aging potential and pocketbook appeal, then Zinfandel from California might be right up your palate.

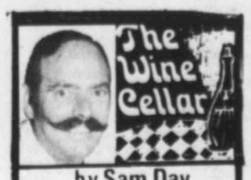
First, supply is not limited. The grape is widely planted the flourishes in many part of the state. More than 40 wineries now produce sound wines from Zinfandel.

Second, there is a style for almost every preference, from light and quaffable (Almaden, Foppiano, Concannon, Krug) to the thick, Port-like, late-harvest wines with 16 percent alcohol (Monterey Peninsula, David Bruce and some Ridge wines). You can even find with Zinfandels and roses.

Third, good Zinfandel, in the hands of a skilled wine maker, can have qualities very similar to Cabernet Sauvignon, the great red wine grape of Bordeaux which is now being made into fine wines in California (with accompanying high prices).

Finally, good Zinfandel has aging potential. During its youth, it is often called "berry-like," with a straighforward fruitiness and hints of wood in the background. With a little aging, a good Zinfandel gains some sophistication and complexity, not unlike the bottle bouquet taken on by Cabernet Sauvignon.

To determine the aging qualities of Zinfandel, we set aise wines from several vintages—1967, 1970 and 1973—and tasted them at regular intervals.



by Sam Day

For a change of pace in your wine cookery, why not substitute Sake for any recipe that calls for a dry white wine or sherry. Try this recipe for an appetizer, blend 6 ounces of cream cheese, two thirds of a cup of cottage cheese, 2 tbsp. soy sauce, 2 tbsp. Sake, and ¼ tbsp. ground ginger, together. Fold in ¼ to ½ oz. can of tiny shrimp, drained, 8 canned water chestnuts, chopped, and ⅓ cup chopped green onions. Chill thoroughly and serve in large shells with potatoe chips.

When you're looking for a change of pace come to IMPERIAL LIQUORS, 3209 W. Wadley. From cold domestic and imported beers to wines of all kinds to a full line of distilled spirits, we have the beverage selection that allows you to change your pace whenever you desire. Come by today and select the beverage that will satisfy your taste this evening. Open 10a.m.-9p.m. Monday -Saturday. Tel. 694-4256.

HANDY HINT:

Sake stores well in a refrigerator, for long periods without losing its special qualities.

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and half of each year to pursue your own interests?

Texas Instruments is looking for people to work as electronic assemblers from now until mid-December. The job is temporary. The rewards can be lasting.

For instance, you'll learn about how a growing new company in your community builds great products such as electronic calculators and digital watches. And you can come back again next year.

TI lets you know your work is important. The pay is good, and there is a choice of shifts available. You'll discover that the products you are making are helping make life easier for people all over the world.

If you're a housewife, student, or anyone who wants to earn extra cash for the holidays, apply now. Come to the TI Employment Center at the Midland-Odessa Air Terminal.
8 a.m. 'til 8 p.m. Monday through Friday and 8 'til noon on Saturday.

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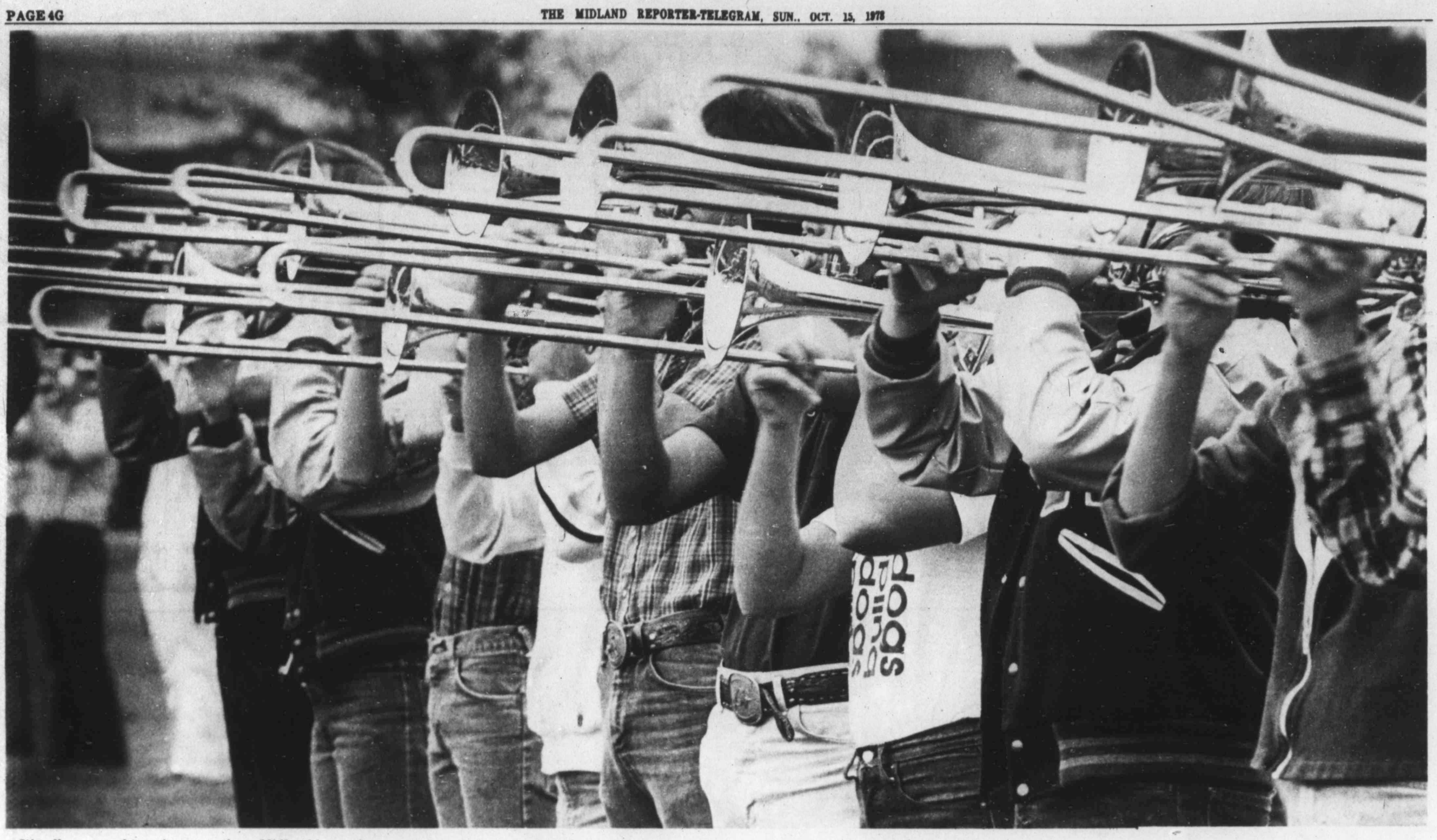
The best of two worlds



It's all arms and trombones as these Midland horn players work on their music during one of the early morning rehearsals that will put them through their paces and try both their talents and endurance.

This musician pays close attention to Midland High School band director Clyde Wilson as he gives instructions from his 20-foot high scaffolding.

Pysche up. . . . . .the band

While football teams all across America are in locker rooms for half-time pep talks, marching bands are on the field providing the fans with music and entertainment.

Being a musician is tough enough, but to have to remember detailed choreographies at the same time you are playing, doesn't make it any easier.

It takes practice and more practice before the members of the band march and play as one unit.

A marching band is a team as much as anything else.

Be it trumpet player or quarterback, each person must learn their assignments and patterns for that night's performance on the field.

The band director is to the band like the football coach is to the players.

Each instructor is prodding their charges to perform just a little better, with that extra edge that will make them winners.

And a band director can be just as tough as any sports coach.

Though perched on a scaffold or roof to get an overall view of the scene, directors seem to have keen eyes that quickly spot an out of synch performer.

One step may be practiced many times before the director is satisfied with each person's execution of a song.

This can at times take on the atmosphere of a slapstick comedy: An entire band takes one arched-back step foward and freezes in its tracks.

The ninth or tenth "again!" will bark out from the director's bullhorn and in unison the band will groan or berate the member who did not perform to the director's approval.

They will fall back into place and do it again.

And woe be it to the person who repeats his mistake.

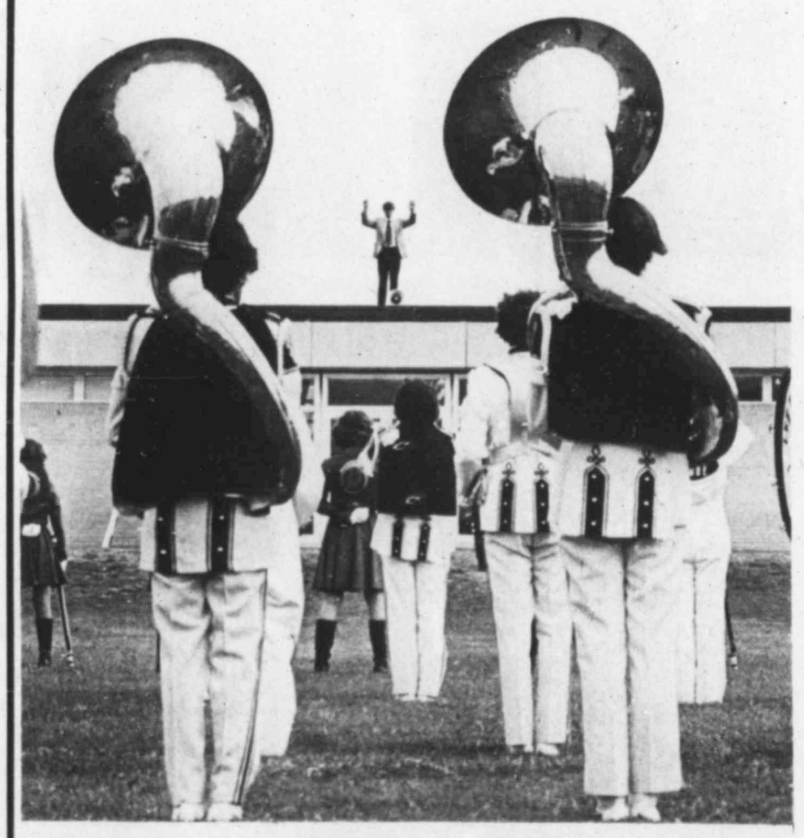
Marching band directors, as a lot, seem to have very little patience with mistakes.

There are always details to be worked out and new march routines to try.

But there never seems to be enough time for the director to make sure everything is just right.

But when the band marches on to the field to do their show all he can do is watch from the sidelines.

Even if the steps are crisp and the lines are straight and the music is played well, chances are good he will want to work on many things at the next practice session.



Lee High School's band director Van Ragsdale goes over a few of the last-minute details with his group before a game.

Story and photos by Mike Kardos

Rearing back to better project his music, Lee High School sophomore Steve Spencer will play a few more warm-up songs before the football game.

Musicians play a few lazy notes and the flag corps works on their twirl as they wait for the final pregame practice that is about to commence.

Discussing decorations for the "All That Jazz" benefit for the March of Dimes to be staged Oct. 27 in San Miguel Square are, left to right, Kathy Atkin, Leslie Forshagen, decorations chairman, and Sara Fry. (Staff Photo)

Louisiana atmosphere to prevail

A New Orleans atmosphere will set the mood for the "All That Jazz" benefit ball to be held Oct. 27 in San Miguel Square.

Proceeds will benefit the March of Dimes and support local and national medical services and research programs. Locally, the chapter director, Kathy Atkin, is teaching students in family living classes at Lee and Midland High Schools about birth defects, the importance of proper nutrition in pregnancy and pre-natal care and preparation for parenthood.

Flower carts filled with greenery will greet guests at the entrance. Inside the square, a red and white striped party tent will provide a covered area for guests' tables and dining. Lanterns and trees inside the tent will envoke memories of the Garden District, jazz and cuisine of Louisiana. A top hat, glove and red carnations will center the tables.

Fresh oysters will be flown in from the Gulf, shucked and served on the half shell at the unique oyster bar. The cuisine will feature Prime Rib of Beef, Shrimp Provincale, Asparagus Mornay, Potatoes Aux Champignon, French Bread, Fresh Fruits, Cheeses and famous New Orleans Chicory Coffee.

Sponsors for the evening are Mr. and Mrs. R. F. Bailey, Mr. and Mrs. Larry Bell, Mr. and Mrs. George Bush, Mr. and Mrs. M. W. Branum, Mr. and Mrs. P. F. Bridgewater, Mr. and Mrs. David Edwards, Mr. and Mrs. Douglas Forshagen, Mrs. Harriett P. Faudree, Mr. and Mrs. Jack Hightower, Mr. and Mrs. James Isbell, Mr. and Mrs. Bob Jones, Mr. and Mrs. Douglas Scharbauer and Mr. and Mrs. Ralph Way.

Illinois woman searching for 'Last Supper' in crochet

By BETTY W. KINSER
Copley News Service

PATTERN SEARCH: Mrs. Ernest Hamuth of Hampshire, Ill., is looking for a pattern to crochet "The Last Supper." Can you help?

Dear Mrs. Kinser: I noted someone wrote of fringing a tablecloth. A friend of mine once said, "We used to hem tablecloths to keep them from unravelling. Now we fringe them to keep from hemming!" Thought you'd get a kick out of this—Lucy Wittrock, Vincennes, Ind.

Thank you for a smile today, Lucy. Things change. For example, would you have ever worn jeans that were "frazzled" around the edges? Nor I. But our boys sure do.

Dear Betty? I have rounded shoulders. One time you said to cut the pattern in from the armhole almost to the center . . . am I right? The neck needs to come up, also, along with the shoulders. In front neck my dresses come up. I have lengthened the back shoulder seam and back of neck, but this tends to make the back of the armhole stick out. Is there any remedy?—Alta Ward, Cottonwood Falls, Kan.

The pattern should be cut FROM center back TOWARD armhole. By separating the pattern there, you lengthen the back; bringing the neckline up; and create the fullness you need over the shoulders and back.

Separate the pattern, back with tissue. On the tissue redraw the center back line to straighten. This will make the neckline large, so you will need to make a little dart in neckline. This dart will help even more toward the fullness you need.

This alteration may correct the "riding up" of your front neckline. If not, check the bustline darts. Are they much too high for your figure? If so, this would cause the bustline fullness to fall between neckline and bust rather than at the bust.

Dear Betty: I am a seamstress and I have a tip on relining coats. I have found that many times the reason a coat lining wears out so fast is because it is too small to begin with. Also, it may shrink in cleaning. So, when I reline a coat, I always cut the lining a little larger. Hope this tip will be helpful to others.—Violet M. Wessel, Holdrege, Neb.

I'm sure it will, Violet. Thank you.

QUICK STITCH: Have you ordered our series of pattern fitting articles? Just send 50 cents and an addressed envelope to Stitching Witchery for Leaflet 358, Fighting Patterns.

This group of pattern fitting tips and alterations has been so warmly welcomed by readers that we are working on a second series. For Leaflet 359, Fighting Patterns 32, just send 50 cents and an addressed envelope. Because of the weight, it takes one envelope for each series.

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Katy

P.S. We're still having our lingerie SALE -
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A super fashion look for fall. The ever popular classic wool look. 54" to 60" wide of 100% wool and wool blends. An array of solid colors and fancies to encourage an all new wardrobe. Dry clean only.
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Posh Pile Pretenders in 60-62" widths. 1 to 5 lengths ideal for decorating and versatile enough for apparel.
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STEAKS	CHUCK EYE • BONELESS USDA CHOICE BEEF	LB.	2.78
CUBE STEAK	LEAN, NO WASTE	LB.	2.28
BEEF LIVER	EVEN SLICES NO CHUNKS	LB.	89¢
SLICED CHEESE	ALBERTSONS AMER. IND. WRAPPED	1 LB. PKG.	1.78
BOLOGNA	JANET LEE • SLICED MEAT OR BEEF	1 LB. PKG.	1.48
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EFFECTIVE DATES: SUN., MON., TUES., OCT., 15, 16, 17, 1978

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Miss Griffith, James Leiser repeat vows

Margaret Anne Griffith and James Stephen Leiser were married in a double ring ceremony at 7:30 p.m. Saturday in the Episcopal Church of the Holy Trinity.

Mr. and Mrs. Robert Edwin Griffith of Midland are the parents of the bride. Dr. and Mrs. Alfred Emil Leiser of Houston are the bridegroom's parents.

The Rev. Samuel Hulsey officiated. John Bryant was the organist, and A. A. "Buzzy" Bucks of Austin was soloist.

Victoria Griffith of Austin, sister of the bride, was maid of honor. Bridesmaids were Katherine Riggs of Houston and Ann Tillett of Austin. Mrs. Robert Crow of Corpus Christi, Mrs. Edward Tinsley III of Austin and Mrs. Robert Wheless of Houston were bridesmatrons.

The father of the bridegroom was best man. The groomsmen were Thomas Leiser of San Francisco, Calif., and Gregory Leiser of Houston, brothers of the bridegroom; Charles MacGregor, Houston; Gary Gray of Denver, Colo., and Edmond Richards of Austin.

The ushers were David M. Griffith of Sierra Blanca, brother of the bride; Andrew McGrath, Seattle, Wash.; Stewart Morris Jr. and Marcus F. Schwartz, Houston; William R. Paschal, Austin, and Michael Hedrick, Midland.

Presented in marriage by her father, the bride wore a classic gown of ivory satin faced crepe combined with re-embroidered Alencon lace and bridal pearls. The gown featured a lace bertha encircling the shoulders, forming a cape-like sleeve, and accenting the Empire line of the bodice. The jeweled lace bertha dipped to a natural waistline in back. The fluid skirt of ivory crepe fell to slipper length and swept into a court-length train. A border of jeweled lace encircled the entire hem of the skirt. She also wore a long tier of silk illusion in her hair. Fresh stephanotis encircled her chignon. Attached to the bride's bouquet of white Cymbidium orchids was the lace handkerchief carried by her great-grandmother in her wedding in 1900.

The reception was held in the Petroleum Club of Midland.

The couple will reside in Denver, after a trip to the Virgin Islands.

Mrs. James Stephen Leiser

Mrs. James Lee Hayes

Debra Ann Sewalt, Hayes marry

ABILENE-Debra Ann Sewalt of Abilene became the bride of James Lee Hayes of Midland in a ceremony at 6:30 p.m. Saturday in the First Christian Church. Dr. Ray Bristol of Midland officiated the double ring ceremony.

Parents of the couple are Mr. and Mrs. Jesse Herschel Sewalt of Abilene and Mrs. James C. Hayes, 907 Harvard Drive, Midland, and the late Mr. Hayes.

When presented in marriage by her father, the bride wore a princess style floor-length gown of white satin overlaid with white tulle. The bodice was of Alencon lace and featured a yoke of shirred tulle. The sheer bishop sleeves were gathered into wide cuffs of shirred tulle. The mantilla veil was of French illusion outlined with Alencon lace. She carried a cascade of stephanotis and gardenias.

The maid of honor was Allene Hunt of Dickinson. The bridesmatrons were Mrs. Tom Sharrick of Midland, sister of the bridegroom; Mrs. Larry Sprayberry of Anson and Mrs. Dan Anderson of Beeville. The bridegroom's grandfather, I. L. Edwards of Midland, was best man. Groomsmen were Tom Sharrick and Terry Little of Midland and Robert Wayne Hayes of Bryan, uncle of the bridegroom.

The organist was Janice Miller.

A reception was held in the church.

The bride attended McMurry College and is a cum laude graduate of the University of Houston Pharmacy School. Hayes attended Texas A&M University and The University of Texas. He also is a graduate of the University of Houston Pharmacy School and is employed by Service Drug, Inc., in Midland.

Following a trip to Montego Bay, Jamaica, the couple will be at home in Midland.

The bridegroom's mother entertained with the rehearsal dinner in The Westwood Club.

Educators have workshop

FORT STOCKTON-Delta Kappa Gamma International, society for women educators, conducted an Area 12 workshop in the First United Methodist Church here.

Approximately 150 women educators from the West Texs area registered. Serving as hostesses were members of Gamma Gamma and Iota Sigma Chapters of Fort Stockton.

Doveta Hunt of El Paso, area co-ordinator, presided. Several state officers conducting workshop sessions included Alpha State President Laginia Hale. Jann Buttery, Elidia Carrasco, Gladys Griffin and Hazel Smith of Midland chapters also were involved in conducting workshops.

A luncheon was held in the Holiday Inn. Mrs. Hale spoke to members on "How To Become a Better Teacher."

Midland teachers attending were Cynthia Williams, Dolly Benson, Shirley Moreland, Mrs. Buttery, Mrs. Carrasco, Gwen Oakes, Mary Davis and Norma Hetzel, Zeta Xi Chapter, and Paula Booth, Carolyn Sowell, Mrs. Griffin, Mrs. Smith, Ann Donaldson, Martha Preston, Frances Walker and Ruth Newton, Epsilon Eta Chapter.

Laundry basket items illusive

TOLEDO, Ohio (AP)-Barbara Gearhart tossed her baby's towels and wash cloths in a laundry basket, awoke the following morning and found them gone.

Assuming that her husband, Tom, had handled the chore, she called to thank him, and learned that he had not washed them at all. He thought they were clean, folded them and put them away.

Mrs. Gearhart put the laundry back into the basket and left. She returned to find the laundry gone again. This time she assumed that her sister, Anne Hebert, who had stopped in earlier, had done the laundry.

She called Mrs. Hebert to thank her, and learned that Mrs. Hebert, too, had thought they were clean, folded them and put them away.

Auxiliary meets

The Opportunity Center Auxiliary met in the home of Mrs. J. M. Patterson.

Following the regular business session, Mildred Farris of Mildred's Flowers gave a demonstration on making cloth flowers and accents.

CALENDAR OF EVENTS

Clubs schedule programs

PERMIAN AIMEES

The Permian AIMEES will meet Tuesday in Midland Country Club. Luncheon will begin at 11:30 a.m. and will be followed with a program.

The program, "Beauty Is a Habit, Not a Gift," will be presented by Eloise Wood, a cosmetic consultant.

MIDLAND WOMAN'S CLUB

The Midland Woman's Club will have a luncheon and program, beginning at 11:30 a.m., Thursday in the Hogan Park clubhouse.

Ron Huse of Hurt's Florist and Patio Shoppe, Odessa, will give the program on winterizing plants and use of gro lites. There will be a display of Christmas decorations. Special prizes will be awarded.

For further information and reservations, contact Allis Chapman, 684-4123.

NEWCOMERS CLUB

The Newcomers Club will meet Thursday in the Episcopal Church of the Holy Trinity.

There will be a coffee while Career Girl presents a style show.

Registration will be at 9:30 a.m. and the style show will start at 10 a.m. There will be a $1 charge.

Those making reservations and new residents to Midland can dial 697-1025 or 697-5068.

Kaye Coonce becomes bride of Donnie Leaton

Kaye Coonce and Donnie Leaton were married at 7 p.m. Saturday in West Kentucky Street Baptist Church. The Rev. Bob Porterfield officiated the double ring ceremony.

Mr. and Mrs. Fred Coonce, 2401 W. College St., are the parents of the bride, who attended Midland High School. The bridegroom, son of Mr. and Mr. Jerry Meyers, 2207 S. Baird St., was graduated from MHS and is employed by Rotary Laboratories, Inc.

After a trip to San Angelo, the couple will reside at 4013 Avondale St.

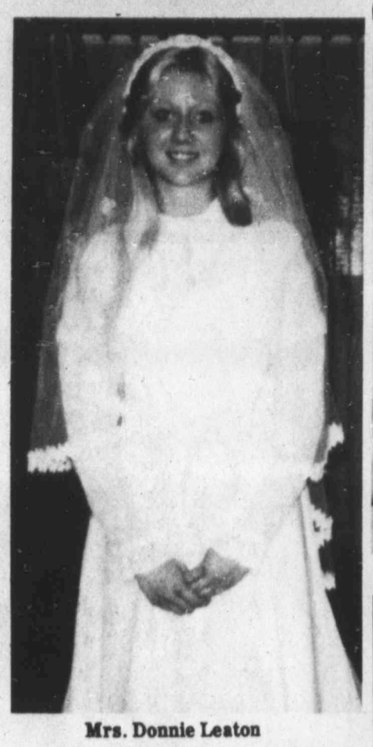
Stephaine Morgan of Kermit was maid of honor. Bridesmaids were Debbie Storey of Odessa and Tangee Leaton, sister of the bridegroom. Debbie Coonce, cousin of the bride, and Kami Mills of Littlefield, niece of the bridegroom, were flower girls.

Cody Caldwell of San Angelo attended as best man. The groomsmen were Robert Jones of Midland and Ricky Mills of Littlefield, brother-in-law of the bridegroom. Fred Coonce II, brother of the bride, and Steve Pinkerton were the ushers.

Mr. Coonce gave his daughter in marriage. She wore a full-length gown with train fashioned of satin overlaid with white chiffon in princess style. The dress had a Victorian neckline and bodice of mantel lace.

Her veil was of soft tulle edged in lace and attached to a cap of matching lace and beaded pearls. She carried a nosegay of white carnations, Sweetheart roses and baby's breath.

The reception was held in the Fellowship Hall.



Mrs. Donnie Leaton

Mrs. John Christopher Narlock

Mrs. Mark Johnson

Narlock weds Rhonda Jernigan

John Christopher Narlock married Rhonda Kay Jernigan in a double ring ceremony at 2 p.m. Saturday in the First Baptist Church. The Rev. Bob Porterfield officiated.

Mr. and Mrs. W. H. Jernigan of 4602 Erie Drive are the bride's parents. She was graduated from Lee High School and is employed by Rocky Ford Moving Vans, Inc. Mrs. Curtis E. Settlemoir of El Paso and the late George Daniel Narlock are the parents of the bridegroom, who was graduated from Andress High School in El Paso. He also is employed by Rocky Ford Moving Vans, Inc.

The couple will reside at 4000 W. Illinois St., Apartment 149, after a trip to Ruidoso and Alto, N.M.

Jaquita Jane Blevins of Eunice, N.M., cousin of the bride, was matron of honor. Bridesmaids were Angela Ingram and Brenda Hale, sister of the bride.

The best man was Alex Sherwood. James Narlock of Clovis, N.M., brother of the bridegroom, and Dennis Smith of El Paso were groomsmen. The ushers were Donald Jaquess of Overland Park, Kan., Rusty Jaquess of Ada, Okla., Tim Jaquess of Fort Worth, Ken Jaquess of Arlington and Cecil Jaquess of Longview, all uncles of the bride.

Betty Shealer was the organist.

The bride, given in marriage by her father, wore a gown of silk and Chantilly lace with chapel train. The draped collar was beaded with pearls. Her fingertip veil of illusion trimmed with Chantilly lace was held by a beaded headpiece. She carried a cascade of yellow and white carnations and daisies with baby's breath.

The reception—was held in the church parlor.

Home scene of wedding

Shari K. Finkbeiner and Mark W. Johnson were married at 6 p.m. Saturday in a double ring ceremony in the home of her parents, Mr. and Mrs. W. K. Finkbeiner, 3510 Seaboard St.

Parents of the bridegroom are Mr. and Mrs. B. W. Johnson of Odessa.

The Rev. Bobby Phillips officiated. Sharon Scroggin was the pianist.

Lacey Bushong was the maid of honor and Mike Roach of Odessa was best man. The flower girls were Leslie Finkbeiner and Karia Finkbeiner.

A reception followed the ceremony.

After a trip to Dallas and Fort Worth, the couple will reside at 3775 Oakwood St., Apartment 1006, Odessa.

The bride is a senior student at Permian High School8. The bridegroom was graduated from PHS and is employed by El Rexene.

Never too late

HUNTINGTON, W.Va. (AP)-When Jenny Lanham, a 56-year-old great-grandmother, entered a barber college months ago, it was not on a whim. After working as a cashier, sales clerk and waitress, it was a chance to satisfy the artistic craving of a lifetime-to be a hairstylist.

Mrs. Lanham said she would like to open her own shop eventually with her 17-year-old granddaughter, Jenny Hapney, and her 18-year-old granddaughter, Michelle Akers.

Writers meet

The Writers Group met in the home of Mrs. John L. Moseley for a study pf lesser known magazines as possible markets.

The group studied a Hollywood script, and members read their compositions, which was followed with a critique.

Information may be obtained from Anne Gaston, 694-2094.

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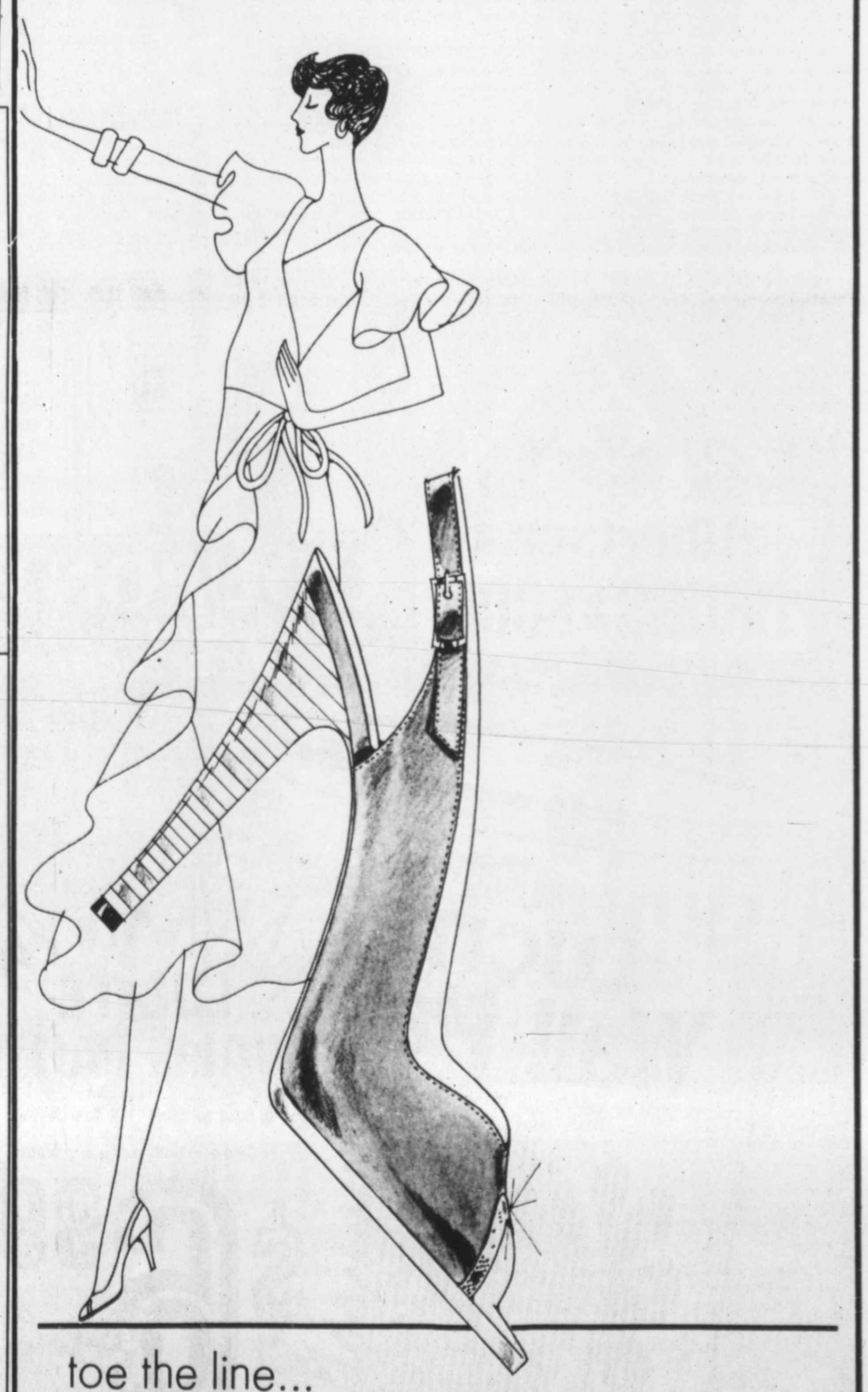

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gilt-edged fashion by Palizzio

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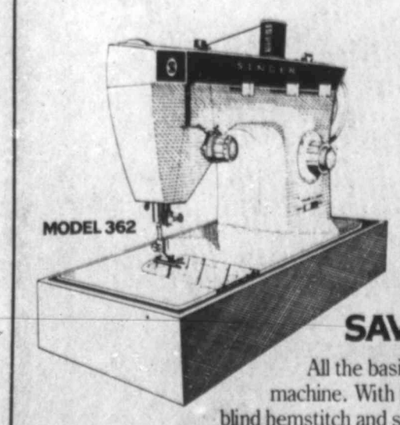

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SAVE $30 ON THIS ZIG-ZAG MACHINE

All the basics you'll ever need are right here in this *Fashion Mate** zig-zag machine. With front drop-in bobbin, blind hemstitch and snap-on presser foot.

Isn't it time to trade in your old sewing machine for a new one? Ask about trade-ins on any make and model, whether it's a Singer machine or not.

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In The Village

Paul Laverty, owner of The Ticket, visits with Betty Kempf, left, and Gana Durossette of the Midland Junior Woman's Club. Laverty was the speaker at a meeting of the club in the Midland Woman's Club. (Staff Photo)

Club hears travel agent

Paul Laverty, owner of The Ticket, travel agency, was the speaker for a meeting of the Midland Junior Woman's Club in the Midland Woman's Club.

Laverty discussed the many aspects involved in planning an enjoyable vacation.

He was introduced by Ruth Ann Griffith, program chairman.

Hostesses were Betty Kempf and Gana Durossette.

Guests were Lisa Garver and Anne Gilley.

In cooperation with the Midland Police Crime Prevention Department, members checked out electric engraving pencils to mark personal belongings.

New members introduced were Marti Plake, Nancy Doss, Mary Carolyn Johnston, Debbie McCall and Betty Lu Garrigan.

Giant onion must rank as one of the most spectacular

By EARL ARONSON
AP Newsfeatures

One of the most spectacular flowers in our garden is the giant onion, which grows three feet tall, topped with five-to six-inch purple balls of hundreds of florets. This allium (Giganteum) and other members of the allium family are planted in the fall and bloom in the spring.

Alliums, with their showy flowers in rounded clusters on long, leafless stems, provide color from early spring to mid-June. Treat them much as you do tulips, hyacinth and daffodils. We put our allium bulbs six inches deep into the ground in the fall and dig them up for rest in late spring or early summer after the big, low-growing leaves have ripened to give strength to the bulb for another season of flowering.

The bulbs should be planted base down in loosened soil, covered about four times their height, big ones a foot apart. Some varieties may grow five feet tall. Smaller varieties are decorative in wild or rock gardens. Just give them a well-drained place in the sun. You don't have to dig them up each year — only when they become too crowded. You can do this in the fall if you prefer.

Here are some of the available alliums, recommended by the Netherlands Flower-Bulb Institute:

Allium affatunense (Iranian onion), 3 feet tall, lilac-purple flowers in rounded clusters 3 inches across.

Allium albopilosum (Star of Persia), silvery-white flower clusters up to 10 inches across on 2-foot stems.

Allium giganteum (giant onion), lilac-purple flowers in rounded clusters up to 6 inches across. Fine for rear of a flower border.

Allium karataviense (Turkestan onions), 12-inch, lilac-purple flower clusters on 12-inch stems.

Allium moly (golden garlic), yellow flowers in loose clusters on 12-inch stems, good for rock gardens.

The flowers may be left on the stalks for a long, showy period. One of our neighbors takes some of our giganteum variety with stems (after they dry out), spray-paints the flower heads gold or silver, and stands them in a group as a winter home decoration.

Cornell University's New York State College of Agriculture and Life Sciences has conducted test trials of our less common varieties of bulbs including iris, grape hyacinth (muscari) and scilla.

Recommended are bulbous iris (Iris reticulata) such as Harmony, Joyce, J.S. Dijt and Violet Beauty. These start blooming as early as mid-April. Plant the bulbs in groups of about a dozen or more, 4 inches deep and 2-3 inches apart in well-drained soil.

Iris xiphiodes (English iris) grows to 24 inches tall, with 3-4 lilac-purple blooms per flowering stem. Duchess of York, Isabella, King of the Blues, Nasfield and Queen of the Blues performed well.

Recommended for rock or small gardens were grape hyacinth (Muscari). Grape hyacinth has spikelike clusters of small, urn-shaped, blue flowers. Album has pretty white flowers.

Armenian grape hyacinth grows tall, with Early Giant bearing big blue flowers with white edges. Blue Spike has double flowers.

Tassel grape hyacinth (Muscari comosum monstrosum) has sterile, purplish-blue flowers, with twisted filaments giving a feathery appearance. No pods are formed, eliminating seed-pod removal or having seed scattered where it is not wanted. Plant 4 inches deep in sunny or partial shade areas.

Scilla sibirica (Siberian squill) is a good, low-growing (4-6 inch) plant with several stems of pendulous, dark blue flowers blooming in April. Spring Beauty has large, light blue flowers.

(For Earl Aronson's "Associated Press Guide to House Plants," send $1 to House Plants, AP Newsfeatures, 50 Rockefeller Plaza, New York, N.Y. 10020.)

Grandmother named police chief

GASSWAY, W.Va. (AP)-Betty Helmick, a 43-year-old grandmother of three, has become the police chief of this community of 1,250.

As far as she knows, she is the first female police chief in West Virginia.

She had been acting chief for the past few months, but she said she "never thought there was a chance" until the mayor put her name before the town council.

"My husband's real happy for me," said Mrs. Helmick, who says she loves hunting and target practice. "But he's concerned with my well being. He's a little worried that I'll end up with a few lumps on my head one of these days."

She said there is not much crime here but still there have been a few armed robberies. She supervises five male officers.

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HINES-WOOD IS MAKING THIS OFFER FOR 3 REASONS:

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The miracle of volume buying direct from the mill, permits us to purchase fine fabrics at a better price than most upholstery shops pay per yard on a short yardage basis.

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The miracle of good credit permitted Hines-Wood to purchase more fabrics than we can pay for, in this slack period. The mills want money instead of the fabrics returned. We offer you this opportunity that we may meet our financial arrangements with the mills.

3
We feel that if you, the people of Midland really know the advantages of reupholstering, our furniture business would be increased.

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Preparing for the Halloween cocktail buffet to be held by the Midland Lawyers' Wives at 7 p.m. Tuesday in the home of Mr. and Mrs. W. H. Leifeste, 1605 Stanolind St., are, left to right, Mrs. Mike Cropper, Mrs. Gary Wisener and Mrs. Richard Booth. Lawyers' wives new to Midland wishing to attend may contact Mrs. Randall Lundy, 694-2750.

Wrap with insulation

By ANDY LANG
AP Newsfeatures

Q. — The cold-water pipe under our kitchen sink sweats very badly and drips water onto the floor. This does not happen to the pipe that carries the hot water. Why does this happen and how can we correct the condition?

A. — The sweating is caused by condensation, the same thing that occurs to windows under certain conditions. Condensation is the result of warm, moist air settling on a cold surface. It usually happens in rooms where there is excessive humidity. You can prevent it by wrapping the exposed part of the pipe with insulation sold specifically for that purpose. It can be purchased at hardware stores, lumber yards and building-supply dealers. While wrapping the pipe will halt the condensation forming on the pipe, it will not correct the basic problem of too much humidity, which may cause sweating on some other cold surface. If you cannot provide some means of permitting the moist air to escape, you may have to get a dehumidifier, which captures the moisture.

Q. — I have read in your column and many others that, in having work done on the roof, a reliable roofer should be chosen. Fine, but how does one find out whether a roofer is reliable? We need our roof re-shingled.

A. — The first and best way to obtain a reliable roofer — or other contractor — is to get one who has been recommended by a friend or relative. If you can't do that, ask the roofer for the names of some people who have used his services. Also, ask him for references. He should willingly give both. He can also be checked out with a local bank where he does business or even with your own bank, which handles home improvement loans and has a good idea of who the good contractors are. You might also try the Better Business Bureau, which does not make specific recommendations but will advise you if there have been excessive complaints about a particular roofer. Once you decide to do business with one man or company, be sure he or it is insured for on-the-job accidents. And get everything in writing — the details of the project; the types of materials that will be used; the completion date and penalties, if any; warranties and guarantees; the final price; the method of payment; and anything else relating to the job, including how and when the waste material will be removed.

Q. — Can aluminum oxide sandpaper be used in a power sander?

A. — Because it is so tough, that's where it does its best work.

DEAR ABBY

Sex not only for the young

By ABIGAIL VAN BUREN

DEAR ABBY: Jim and I have been married for over 40 years. We are both in our late 60s and still love each other deeply. However, due to Jim's impotence, we have not been sexually active for at least three years. This has not altered our relationship one iota. We still have a wonderful marriage and don't feel necessarily deprived.

Abby, I resent the constant bombardment from TV, radio and newspaper and magazine articles insisting that anyone who is under 90 and isn't sexually active should rush out and get some kind of therapy in order to live a "full life" again.

Jim and I DO live a full life. Sign me. . .—CONTENTED

DEAR CONTENTED: If you're contented, fine, but the bombardment you resent is intended for the older person who buys the myth (and it IS a myth) that sex is for the young only.

Not true. Of course, with increasing age comes the natural slowing down of the entire body, sexual activities included, but they need not stop.

After all, just because you can no longer Charleston all night doesn't mean you can't waltz for an hour.

DEAR ABBY: I have been going with a woman for nearly two years and I have never seen her in a dress! She absolutely refuses to wear one.

I have quit taking her out in public because she insists on wearing pants everywhere. Once, I even gave her money to buy a dress, but that didn't do any good.

Tell me, Abby, is there something wrong with her? Or do you think maybe I'm expecting too much?—GLEN

DEAR GLEN: There is a remote possibility that her legs are disfigured, or she considers them unpresentable.

In any case, it's her right to wear whatever she chooses, and it's your right to refuse to escort her for reasons of your own.

DEAR ABBY: Will you please put something in your column that would be a tremendous help to a lot of people?

I refer to those individuals who are constantly complaining about their aches and pains.

A lot of these folks read your column. Please give them some kind of message. A gentle hint does no good. They go on and on.—TIRED OF HEARING IT

DEAR TIRED: We are all familiar with the type of "organ recital" you describe. In this connection, no one has topped the advice of the late Ella Wheeler Wilcox;

"Talk health. The dreary, never ending tale of mortal maladies are worn and stale. You cannot charm or interest or please by harping on that minor cord—disease. So, say that you are well, and all is well with you."

SORORITY NEWS

GAMMA SIGMA CHAPTER, PHI SIGMA ALPHA

Members of Gamma Sigma Chapter of Phi Sigma Alpha were hostesses to a dinner in the home of Mrs. Ray Horton.

Mrs. Charles Ambrose, president, extended the welcome. Mrs. J. L. Waddell gave a history of Phi Sigma Alpha, and Doris Corley told what PSA means to her.

Guests were Roberta Bain, Mrs. R. C. Baker, Mrs. Troy Compton, Mrs. S. T. Miller, Billie McConnell, Louise Underwood, Mrs. Royce Womack and Mrs. John P. Young.

Mrs. Miller was pledged to the sorority.

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CULTURAL BRIEFS

EXHIBITS

PRINCETON, N.J. (AP) — An exhibition of photographs by Ansel Adams from the museum's collection is on display until Oct. 29 at the Art Museum of Princeton University.

Classical art from the museum's collection will be shown Nov. 11-Dec. 17, and graphic works of Odilon Redon will be on show Nov.17-Dec. 17.

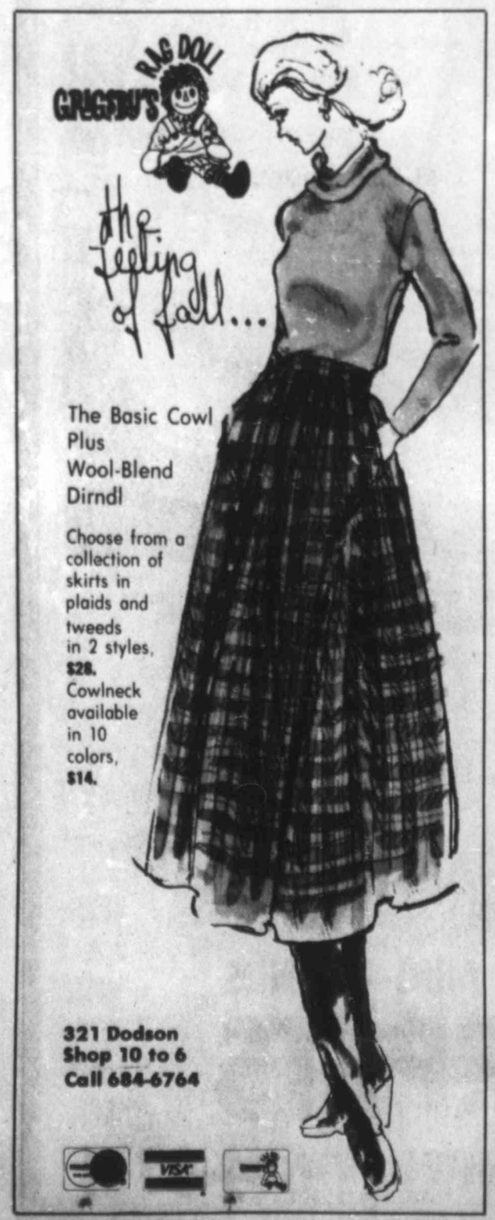
GEORGE GROSZ

WASHINGTON (AP) — The exhibition "George Grosz: The Hirshhorn Museum and Sculpture Garden Collection" will be on display at the Smithsonian's Hirshhorn Museum through Jan. 14, 1979.

The museum says the 37 works on display span the career of the German-born satirist. It is the first public showing in its entirety of the museum's collection of Grosz's work: 16 watercolors, 17 drawings and four oil paintings.

PAINTING GIVEN

LOS ANGELES (AP) — An 1892 painting by Swiss artist Ferdinand Hodler has been given to the Los Angeles County Museum of Art by museum trustee B. Gerald Cantor.



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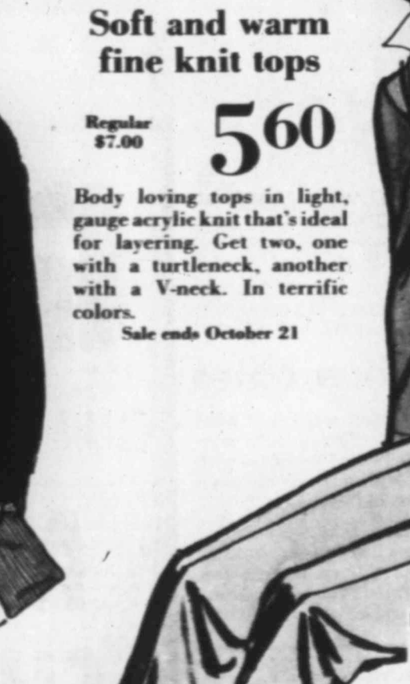
Sale ends October 21



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Sand and Seed Garden Club will have a display and sale of original pottery works by Florence and Charles Henderson from 10 a.m. to 3 p.m. Friday and Saturday in Lancaster Garden Center-Museum of the Southwest. "Pots for Every Room" will be the theme of the sale. Mrs. Henderson, left, is with Joy Boes, club member. Items will include decorative and functional stoneware. New pieces are to be added Saturday. (Staff Photo)

Women's Auxiliary, Inc. executive board meets

The executive board of the Women's Auxiliary, Inc., of Midland Memorial Hospital met in the hospital conference room for a business session.

Mrs. James Mailey reported 145 women worked 1,814 hours during September. Those working more than required hours were Peggy Armstrong, 23 hours; Norma Bauman, 30; Martha Lou Birchum, 32; Liz Confer, 25; Christine Feagan, 20; Dorothy Ferrell, 131; Em Haught, 54; Virginia Lyle, 22; Lois Parker, 27; Alyce Swann, 33, and Jane Wyant, 22.

The membership chairman, Mrs. James Davis, reported the auxiliary has 161 active, 108 contributing and seven honorary members.

Mrs. Dale Holloman, Junior Auxiliary chairman, reported eight girls worked 69 hours during September. Cherry Young, with 13 hours, won the Candy Striper award. Also recognized were Jane Britt, 12 hours, and Angela Shaeffer, 12.

Mrs. Ralph Geisler, memorials chairman, announced 13 gifts were received during September.

Mrs. Edwin Ferrell was presented the hospital's Ambassador Award for the month by Wayne E. Ulrich, hospital administrator.

Men seek cosmetic surgery

By ELAINE Q. BARROW

NEW YORK (AP) — Looking into the mirror, it's not only women who want to erase the ravages of time. Men represent a substantial 35 percent of the persons seeking cosmetic surgery, a New York City specialist estimates.

Dr. Gerald Imber views the increase in male patients as "absolutely unbelievable."

"Some years ago," he says, "men represented 10 to 20 percent of our practice. Now, older men are having face lifts and the bags under their eyes removed. Younger men are having nose jobs and hair transplants."

"But men are babies when it comes to surgery. Women are wonderful," adds Imber, who with K. J. Wagner has written a book, "Beauty by Design: A Complete Look at Plastic Surgery."

When is the time to consider cosmetic surgery?

"When you look in the mirror one day and you don't like the way you look," says Imber. "When you don't feel as young on the outside as you do on the inside."

Women evidently reach that stage between the ages of 45 and 55 and they seek face lifts. The average is older for men.

Fantasy often plays an insidious role, and Imber is frank to say that plastic surgery is not for everyone.

"It's not magic," he says, "and any patient who believes that plastic surgery will change his or her life is going to be disapointed with the results."

While it can improve a person's looks and confidence, he says, "personal problems will not vanish and depression cannot be turned around."

Imber points out that he screens prospective patients and, because of unrealistic expectations, turns down as many as 20 percent.

Nasal surgery, he says, poses the biggest area of dissatisfaction. He sits down with the patient over photographs and they sketch possibilities.

"The patient draws, and I draw," he says. "I see what he or she wants and what I can deliver. I can deliver 90 percent of what I've shown in the drawing. If a patient doesn't like what's in the picture, I bow out."

He said that he gave prospective patients "the downside — the worst they can expect," adding, however, "essentially there's no pain. It's about two aspirins worth of pain."

While a colleague of his once told prospective facelift patients to expect to emerge from surgery looking as if they had been hit by a small European truck, Imber is less negative.

"There still is black and blue in some affected parts immediately after surgery," he says, "but with advances, it is minimal these days." He credits the improvement to a new technique in inserting sedatives.

Another advance in surgery achieving major strides, he says, applies to reconstructing breasts following a mastectomy, a development in which he says he is proud to have played a part.

A change of attitudes by surgeons performing mastectomies is heartening, too, he says, adding:

"Twenty years ago, they used to tell the patient, 'We saved your life, what else do you want?' Now they're doing horizontal incisions and leaving muscles in the chest wall, which makes for easier reconstruction."

Costs are high. Dr. Imber estimates that in major cities prices might be $1,500 to $3,000 for rhinoplasty (nasal reshaping); $3,000 to $5,000 for a full face-lift and eyelids; $1,500 to $2,500 for eyelids alone; $1,500 to $3,000 for breast enlargement and $2,000 to $3,500 for breast reduction. Hair transplants average $20.00 per plug.

Because hospital charges add considerably to these surgical fees, there is a growing trend toward equipping physicians' offices with outpatient surgery facilities, says Imber, who is affiliated with the New York Hospital-Cornell Medical Center.

"Eyelid surgery, for example, can require two days or more in a hospital," he says. "But in a surgeon's office, it can average four or five hours, including time in the recovery room. A person can undergo eyelid surgery on a Thursday, take Friday off and stay home over the weekend. On the way to work Monday he can stop off, get the stitches removed and leave wearing tinted glasses."

(Beauty by Design: A Complete Look at Plastic Surgery," is published by McGraw-Hill)

New program for minority women

NEW YORK (AP) — A new academic program with the ultimate goal of increasing the number of minority women in top-level management jobs has been developed by the Polytechnic Institute of New York in conjunction with New York City Community College, from which candidates will be recruited.

The Minority Women in Management Careers program will seek to help the participants develop their skills to overcome occupational stereotyping.

"There are literally thousands of women enrolled in secretarial science programs who have the ability to become professional managers. It simply never occurs to those women to try," said project director Pamela E. Kramer.

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TI is accepting applications Monday-Friday, 8AM-5PM, and Saturday, 8AM-noon. Apply at the Employment Center, Texas Instruments, Midland-Odessa Air Terminal.

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Nancy Diane Ballenger

Couples announce engagements, wedding plans

ROSS-DECINA

Mr. and Mrs. Donald A. Ross, 2601 Sentinel Drive, announce the engagement of their daughter, Donna Carolyn, to Dr. Paolo Decina, son of Mrs. Giacomo Decina of Rome, Italy, and the late Mr. Decina.

The wedding is to be held in New York City Jan. 6.

Miss Ross attended the University of Rochester and is a former member of the Festival Ballet of New York and the Joffrey Ballet.

Dr. Decina is a graduate of the medical school of the University of Rome and currently is a resident psychiatrist at St. Luke's Hospital in New York.

HENRY-BESS

Mr. and Mrs. A. L. Henry of 910 N. Weatherford St. announce the engagement of their daughter, Margaret Denise, to Christopher Wayne Bess, son of Mary A. Bess, 1601 E. Pecan St., and James Bess of San Antonio.

The wedding will be held at 6 p.m. Nov. 18 in the Macedonia Baptist Church.

Miss Henry is a graduate of the Midland College School of Nursing and is employed by Westgate Manor Nursing Home. Her fiance attended MC and is a seaman apprentice with the U.S. Navy.

PHIPPS-ROLLER

Mr. and Mrs. I. L. Phipps, 311 E. Spruce St., announce the engagement of their daughter, Jeannie Kay, to Edward George Roller, son of Ann J. Matney of Riverside, Calif., and the late Joseph R. Roller.

The wedding will be held at 7 p.m. Dec. 1 in the First Assembly of God Church.

Miss Phipps attended Southwestern Assemblies of God College in Waxahachie. She is employed by No. 1 Sports Place. Her fiance attended Trinity Bible Institute inIEllendale, N.D., and is employed by Nickel-Williams Chrysler.

POST-LATHAM

Mr. and Mrs. Melton D. Post of 4601 W. Illinois St. announce the engagement of their daughter, Shanna LaDon, to John Ronald Latham, son of Mr. and Mrs. Jack W. Latham of Tulsa, Okla.

The couple is to be married at 7 p.m. Nov. 11 in Wilshire Park Baptist Church.

Miss Post is a graduate of Lee High School and is a bookkeeper for Stanley Roofing Co. Her fiance is attending McMurry College and is a jet engine mechanic at Dyess Air Force Base.

LANGSTON-MARMON

Mr. and Mrs. H. Harvey Langston, 2400 Metz Place, announce the engagement of their daughter, Lissa Rees, to Mark McCarter Marmon, son of Mr. and Mrs. Harvey V. Marmon of San Antonio.

The couple is to be married Dec. 16 in St. Nicholas' Episcopal Church.

Miss Langston received a bachelor of business administration degree in management from Texas Tech University, where she was a member of Alpha Chi Omega social sorority. She is employed by McDonnell Douglas Automation Co. in Houston. Her fiance will receive a bachelor of arts degree in park administration from Tech in December.

BALLENGER-ROBERTS

KILGORE—Mr. and Mrs. James D. Ballenger of Kilgore announce the engagement of their daughter, Nancy Diane, to Matthew Bryson Roberts, son of Mr. and Mrs. Jerry B. Roberts, 2307 Stanolind St., Midland.

The wedding will be held at 7:30 p.m. Dec. 29 in the First Christian Church of Kilgore.

Miss Ballenger will receive a bachelor of business administration degree in December from Texas A&M University, where she is a member of Sigma Iota Epsilon, honorary fraternity, and Chi Omega social sorority.

Roberts has a bachelor of science degree from Texas A&M University and is a second year dental student at The University of Texas-San Antonio Dental School.

HOROSCOPE

By CARROLL RIGHTER

(Sun., Oct. 15)

GENERAL TENDENCIES: A fine day and evening to make whatever changes you feel will bring you a greater amount of success. Make long-range plans to have increased prosperity in the days ahead.

ARIES (Mar. 21 to Apr. 19) Confer with allies and plan how to make your operations more successful in the future. Accept invitation to a social.

TAURUS (Apr. 20 to May 20) Fine day for taking treatments to improve your health. Enjoy only the lightest of entertainment. Relax at home tonight.

GEMINI (May 21 to June 21) Join with good friends at amusements that are mutually pleasurable. Show more thoughtfulness for others.

MOON CHILDREN (June 22 to July 21) Take steps to make your home more charming and functional. Ideal day to entertain friends and relatives.

LEO (July 22 to Aug. 21) The right time for studying spiritual and scientific tenets that can make your life richer and more rewarding. Express happiness.

VIRGO (Aug. 22 to Sept. 22) Analyzation of assets and liabilities reveals you are in a better position than you had thought. Show increased devotion to loved one.

LIBRA (Sept. 23 to Oct. 22) Study the progress you've made in career affairs and find a better way of gaining personal aims. Show more consideration for others.

SCORPIO (Oct. 23 to Nov. 21) Reflect and meditate today and plan how to make your life more as you want it to be in the future. Think constructively.

SAGITTARIUS (Nov. 22 to Dec. 21) Get together with persons whose ideas are similar to yours. Perfecting a talent could give you added income in the future.

CAPRICORN (Dec. 22 to Jan. 20) Listen to views of family members and try to cooperate more with them, since they have very good ideas.

AQUARIUS (Jan. 21 to Feb. 19) Join with congenials and have a delightful time at favorite recreation. Be sure to improve your appearance.

PISCES (Feb. 20 to Mar. 20) Find a better way of increasing present abundance. Consult with an acquaintance who is in expert in

(Mon., Oct. 16)

GENERAL TENDENCIES: You are able to put the finishing touches to a plan you have been working on for a long time. Now is the time to get the necessary backing to get it off the ground.

ARIES (Mar. 21 to Apr. 19) You are thinking clearly and concisely and can handle important money matters well. Make plans early and then carry them out.

TAURUS (Apr. 20 to May 20) Take care of personal matters first before you consider financial affairs. Be more orderly in planning your work for the week.

GEMINI (May 21 to June 21) See how much cooperation you can get from friends with regard to a project you have in mind. Policy decisions for the future should be reached now.

MOON CHILDREN (June 22 to July 21) Get into activities that will advance your position in life appreciably. Steer clear of pals who are not thinking straight today. Concentrate on personal goals.

LEO (July 22 to Aug. 21) You are fascinated by new projects but don't act hastily until you have studied them well. Make new friends but be sure they are the right ones.

VIRGO (Aug. 22 to Sept. 22) Pay bills and make collections and thenf study into new systems for greater success in the future. Plan for a better future with a loved one.

LIBRA (Sept. 23 to Oct. 22) Talk over a new deal with a clever person you know and get good advice. Later handle those annoying problems. Get involved in worthwhile community affairs.

SCORPIO (Oct. 23 to Nov. 21) Get an early start on the work ahead of you and then confer with others for good purposes. You understand a personal problem better and can now handle it wisely.

SAGITTARIUS (Nov. 22 to Dec. 21) Get into creative work that appeals to you. Cheer up a loved one in an unhappy mood. Plan time for taking care of health matters.

CAPRICORN (Dec. 22 to Jan. 20) First take care of an annoying domestic problem before you go out for fun. Concentrate more on problems of a financial nature.

AQUARIUS (Jan. 21 to Feb. 19) Spend the day improving your surroundings at work and then devote the evening to improving your home life. Be active.

PISCES (Feb. 20 to Mar. 20) You can handle money affairs well in the morning, but take care you do not argue with allies later. Start making needed repairs to home, property.

BRIDGE WINNERS

SUNDAY
Greater Permian Basin Duplicate Bridge Unit No. 209
First: Mrs. A. L. Gifford and R. E. Myers.
Second: Mrs. W. B. Smith and Mrs. Ford Taylor.
Third: Mrs. Dale Myers and Al Gifford.
Fourth: Mrs. Ralph Hammond and Mrs. R. E. Myers.
Fifth: Mr. and Mrs. Joe Ranne.

TUESDAY
Duplicate Bridge Group
First: Mrs. B. L. Crites and Mrs. J. L. Smith.
Second: Mrs. W. W. Roye and Mrs. J. T. Dickerson.
Third: Mrs. William M. Kerr and Mrs. J. C. Williamson.
Fourth: Mrs. C. L. Griffin and Mrs. Overton Black.

WEDNESDAY
Permian Basin Duplicate Bridge Club
First: Mrs. B. L. Crites and Mrs. J. L. Smith.
Second: Mrs. Jack LaVigne and R. E. Myers.
Third: Mrs. R. E. Myers and Mrs. Dale Myers.
Fourth: Mrs. Ford Taylor and Mrs. A. L. Gifford.

THURSDAY
Duplicate Bridge Group
First: Mrs. Norman Raman and Mrs. A. L. Gifford.
Second: Mrs. Max Levin and Mrs. Dean Austin.
Third: Mrs. J. A. Weideman and Mrs. Harry Miller Jr.
Fourth: Mrs. Joe Ranne and Mrs. Harold Clark tied Mrs. Ralph Hammond and Kay Jones.

FRIDAY
Midland Country Club
First: Mrs. B. L. Crites and Mrs. J. L. Myers.
Second: Mrs. William Potts and Mrs. J. E. Sheeler.
Third: Mrs. Charles Dellenback and Kay Jones.
Fourth: Mrs. L. C. Slape and Mrs. William Billingsley.
Fifth: Mrs. Ralph Hammond and Mrs. W. B. Smith.

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Reg. 32. 15.90
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Reg. 16. 7.99
Reg. 18. 8.99
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Several to choose from one and two piece styles.
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No. 5 dellwood mall
Monday-Saturday 10:00-6:00
Thursday open til 9 p.m.

Readying items for the Holiday Bazaar to be held by the Christian Women's Fellowship of the First Christian Church from 9 a.m. to 6 p.m. Nov. 4 in Dellwood Plaza Mall are, left to right, Jean Jones, Cheba Bianchi and Cleo Johns. Handmade gifts and decorations will be featured. A ceramic Christmas tree will be awarded. Proceeds will be used for the CWF missionary pledge. (Staff Photo)

It's anchors aweigh for women

By DIANE CLARK
Copley News Service

Deborah Cummings may have stepped into a traditional man's job when she became the first enlisted woman assigned to sea duty aboard a Coast Guard cutter last September — but she taught the men to knit and crochet.

"They made their own sweaters and made mittens for Christmas presents," Cummings said in a telephone interview from San Francisco.

She is a hospital corpsman 2nd Class who served aboard the San Francisco-based cutter Morgenthau for about nine months.

The Morgenthau and her sister ship, the Gallatin, based in New York, became the first cutters to have women crew members and officers. Each has 12 women.

It was an experiment that must have worked because the new Coast Guard commandant, John B. Hayes, announced recently that all restrictions based on sex in training, assignment and career opportunities would be dropped.

From now on, mixed-sex crews will be assigned to any Coast Guard unit, either afloat or ashore, which can provide separate sleeping and bathroom facilities.

Cummings, who had to leave the Morgenthau prematurely because of a head injury and is based at Yerba Buena Island, was elated at the new policy.

"When I joined this service (in 1975) I was told I'd never see sea duty and two and one-half years later I was at sea ... I love sea duty. Getting under way is almost indescribable, it's so beautiful.

Home title important

An important step before completing the purchase of a home is determining whether the seller has good title to the property.

This normally involves an expert search of the public records for information about the real estate, which culminates in assembling a history of its ownership.

Esstential as this search is to you and your mortgage lender, it does not offer the maximum protection available. Sometimes the public records will contain an incomplete or an inaccurate history.

Free information on home ownership safeguards may be obtained by writing American Land Title Association, Box 566, Washington, D.C. 20044.

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A baby-sitting clinic was conducted recently by the Midland Jaycee-ettes. Receiving certificates from Phyllis Reneau, front row, left, were Alene Morett, Delaine Cargile, Kaylynn Patterson, Julie Eakin, Dawn Brewer and Teresa Brewer, left to right, back row, and Charolette Jackson, Michelle Boone and Rosalinda Lopez, from second left, front row. Ms. Reneau was chairman of the clinic and Hank Webster, one-month old and son of Mr. and Mrs. J. D. Webster, also participated. (Staff Photo)

"A Dialogue With Keith Miller"

Keith Miller, well known author and a religious leader, will speak and answer questions, Thursday, October 19th, 2:00 p.m. at First Presbyterian Church in Odessa. ADMISSION: $10 Donation to the Pastoral Counseling Center. Dr. Ray Bristol, Exec. Director. For tickets, call 563-0651

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Stuffed peppers liven dinner

By CECILY BROWNSTONE
AP Food Editor

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STUFFED PEPPERS

My sister Frances evolved this sweet-and-sour dish.

Tomato Sauce, see below
4 large, very fresh, very firm green peppers (with as few crevices as possible)
1 pound ground sirloin beef
1 large egg
1 cup fine soft bread crumbs
1 small onion, minced
¾ teaspoon salt
⅛ teaspoon pepper
½ cup water
2 tablespoons Worcestershire sauce

Turn all the Tomato Sauce except about ½ cup into a 13 by 9 by 2-inch pan. With a swivel-blade vegetable peeler, pare as much of the skin from the peppers as you can. Cut each pepper in half lengthwise and remove seeds and white membranes. Mix together the remaining ingredients and stuff into the pepper halves; spoon the remaining Tomato Sauce over them. Bake, uncovered, in a preheated 350-degree oven for 30 minutes; stir the sauce and baste the peppers with it; bake 30 minutes longer; stir and baste again. Makes 4 servings.

Tomato Sauce: Stir together a 16-ounce can tomatoes (cut up and undrained), a 6-ounce can tomato paste, ½ cup water, 2 tablespoons each light brown sugar, lemon juice and Worcestershire sauce.

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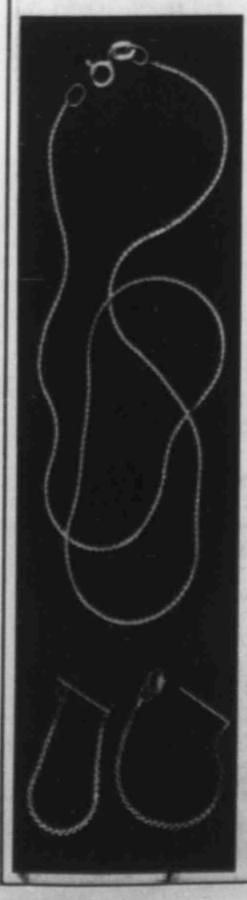

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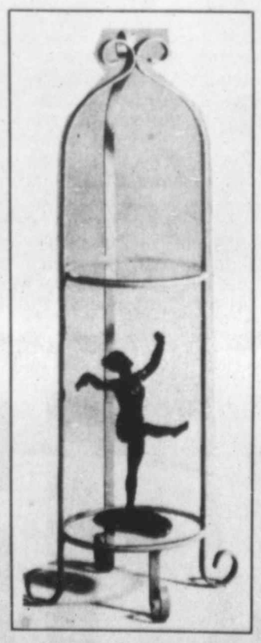

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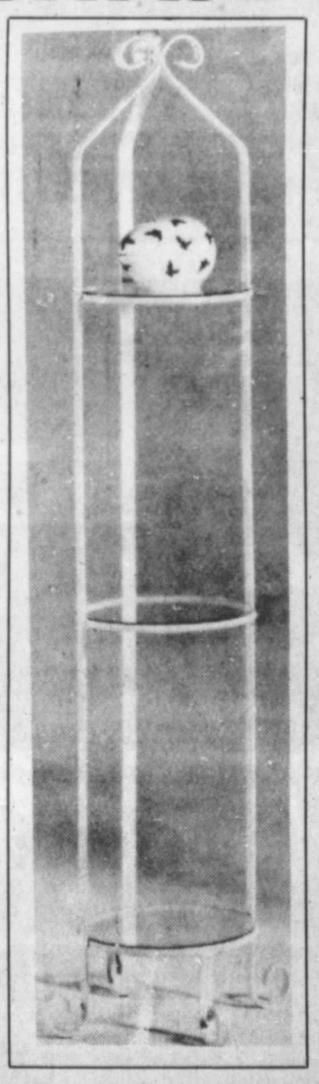

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MIDLAND

Family budget must combine incomes

By ELAINE Q. BARROW
AP Newsfeatures

A budget you can enjoy? One that fits your style of living? YES. Author Alice Priest has come up with some fresh ideas that advocate "happy saving and happy spending."

Too often the word "budget" carries the connotation of a stringent, rigid, rule-ridden way of dealing with money.

Mrs. Priest points out, however, that there are no right or wrong attitudes toward money. Each person has a choice in the way to spend or save money — which she explains in a book she has written.

"The book emphasizes strategies that you ought to — rather, might — adopt," she says. "It has no 'ought'to's'."

Mrs. Priest urges the reader to "find out about yourself; are you a hoarder or a spender?"

A test of 30 questions is included in her book. Once answered, you'll find out if you are a careful spender (sometimes over-cautious); a middle-grounder who achieves a reasonable balance between saving, spending and credit, or a high scorer who tends to "hold money very lightly."

Each is given specific advice on how to save, buy insurance and housing, pay college and transportation costs, and use of credit. There are also tips for combatting inflation.

Mrs. Priest, an editor of Business Week magazine who often writes the cover story, says tools for building a budget include four elements — insight, input, involvement and income.

The insight can be gained from the quiz and the input by a family brainstorming session to set goals. As for involvement, Mrs. Priest suggests that both husband and wife take turns at handling the family expenses, and that even a teenager might take a stint at keeping the books.

The family budget, she says, should include the combined income of husband and wife for the combined expenses of the family. If only one spouse works, she says, equal credit should be given for the other's labor in keeping the home.

Handling money is emotional, she observes. Once you understand your emotional approach to money — and that of other family members — you can plan strategies.

Money is said to be the No. 2 problem (after sex) in marital strife. If both partners understand how they respond psychologically to money, they can adjust to each other's goals — or shared goals.

Although Mrs. Priest professes no bias toward hoarders or spenders, she indicates in conversation that compulsive savers miss out on a lot of living.

"There is a risk for those who save (compulsively)," she says, "There's the risk that they won't enjoy the fruits of their labor.

"They may get to the point where they will be too old to spend their money and be able to enjoy it, or will have to spend it for things they didn't expect to."

She adds, "We've all seen parents who left their kids well fixed and then the kids went out on a spending spree, which is the last thing their parents would have wanted."

But Mrs. Priest does not knock impulse spending, either.

"If that's your want, you should have disposable income to spend," she said, bringing out a point of her book:

"A personal disposable income is the essential ingredient in every budget. It is the sum of money assigned each month to both partners to spend or save exactly as each sees fit ..."

She calls it "nag-free, happy" money and contends it is "the most important safety valve any marriage can have."

With the approaching holiday season, she has some advice for those who stick to their budgets throughout the year only to go on a Christmas shopping spree.

"Whatever you plan to spend, you should add a cushion to it," she says.

As for equating extravagant, monogrammed, designer purchases with status, Mrs. Priest says, "I don't believe buyers are saying, 'This is for status.' I believe they are thinking 'This shows I can afford it.'

"But why haven't they gone to the next step to ask themselves,'Why do I have to show I can afford it?'"

Mrs. Priest and her husband, Richard, a financial executive, have a son and a daughter.

Asked if she handles her family finances, Mrs. Priest says, "To be perfectly honest, I must confess that for many, many years my husband handled the finances altogether.

"Then my mother became ill and I had to take over her finances." That event, she says, was her initiation into money handling.

("The Family Budget Book is published by Loren Press, Inc., 501 East Third St., Dayton, Ohio 45410.)

Occupational tests to be given

CHICAGO (AP) — The City Colleges of Chicago, in cooperation with the National Occupational Testing Institute, will offer college credit to persons in industrial and technical trades who pass written exams and performance tests in their fields.

College credit earned by passing the exams can be used toward an associate degree or for certification within a trade. The occupational competence tests cover 21 areas, including computer technology, sheet metal working, printing, auto body repair and quantity food preparation.

I. David Porras, interior designer, visits with Mrs. J. W. Sparks, left, and Mrs. Robert Pervinsek at a meeting of the Permian Basin Geological-Geophysical Auxiliary in Midland Country Club. (Staff Photo)

David Porras guest speaker at function

The Permian Basin Geological-Geophysical Auxiliary met in Midland Country Club for a regular session and guest day.

Interior designer, I. David Porras, was the speaker. He has received national and international recognition for his interior designs.

Co-chairmen for the luncheon were Mrs. Robert Pervinsek and Mrs. Victor Vasicek.

Hostesses were Mrs. Gary J. DeKoning, Mrs. Jack Goodwin, Mrs. Bill Kalil, Mrs. D. L. McClurg, Mrs. Richard Mendenhall, Mrs. David Miller, Mrs. Bill Tift and Mrs. J. M. Wolfe.

One hundred eighty-seven members and guests attended. Special prizes were won by Mrs. Robert Klepfer, Mrs. Frank Schatz and Mrs. Jack Edens.

The next meeting of the auxiliary will be a luncheon and style show Nov. 9.

Women eligible for membership may contact Mrs. Henry Libby, 694-5642, for further information.

CULTURAL BRIEFS

Academy seeking musical

NEW YORK (AP) — A new stage musical worthy of a full-scale New York showcasing is being sought in colleges, drama schools and amateur theatrical groups by the American Academy and Institute of Arts and Letters.

The project has been set up under a $1-million gift made last spring by Composer Richard Rodgers. The rules stipulate that any show which has not had a professional production may be submitted.

After a choice has been made by an Academy-Institute committee, some non-profit institution — such as the New York Shakespeare Festival, Hudson Guild or Manhattan Theater Club — will receive between $50,000 and $70,000 to produce the property. All rights remain with the authors.

Material for the first annual award must be submitted by Dec. 1 to the organization's headquarters, 633 W. 155th St., New York N.Y. 10032. The winner will be announced next May.

MORGAN SHOW

NEW YORK (AP) — The Morgan Library, which says it owns the most extensive and beautifully selected series of medieval and renaissance illuminated manuscripts on the American continent, will show some of the most outstanding examples through Dec. 3.

The show will include some of the library's finest Carolingian, Romanesque and early Gothic illuminations of French origin.

(ADVERTISEMENT)

Miss Mary L. Perez daughter of Mr. and Mrs. Alexander M. Perez of Tarzan. Miss Perez graduated from Grady High School in 1977. She enrolled in Commercial College of 77-78, Midland, Texas and pursued a course of Executive Secretary. In just a few months Miss Perez attained sufficient skills to be placed in a business position with Midland Memorial Hospital. Training at American Commercial College of Midland gets results, it does not cost, it pays. American Commercial College, 3306 Andrews Highway.

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The evil weevil: Bay leaves discourage such pests

By JEANNETTE BRANIN
Copley News Service

Recently a story appeared in the newspaper about a woman who had found weevils in her flour. She asked what to do about it. She was told to inspect all meals and flour products, to throw out anything that showed signs of webbing and to scrub, scrub, scrub.

"Your article was very interesting but you didn't go far enough," wrote Irene C. Cowell.

"You didn't go far enough and tell all the ladies how to keep the weevils out of their flour, meal, etc."

Irene was the first of many to write about the favored preventive: bay leaves.

"About 10 years ago I read an article saying bay leaves work, so I tried it and haven't seen a weevil since. I put 3 or 4 bay leaves in each of my containers and change them about every 6 months. It really works," wrote Irene.

"As you know, there's no odor given off, so it's a perfect solution as far as I'm concerned."

In the same mail came a letter from Love Magness, who said she places bay leaves on the shelves as well as in containers of flour, cornmeal, dry cereals, etc.

"They will go away and stay," she said. "It does work and the bay leaves do not impart any flavor to the product it is stored with or near.

"It is a very inexpensive solution that will keep you from losing expensive grocery items."

The use of bay leaves is a honey of a solution, wrote Mrs. E. Putzier. But she goes even farther to protect against weevils.

"I do, cautiously, put things in jars or large cans or a plastic bag, in case. Someone told me (about the bay leaves) and I'm so grateful, so I thought I'd pass it on."

Albert Hoge stapled six bay leaves to his letter in which he said that he, too, had found that bay leaves in grain products will keep the weevils out and will not affect the flavor or odor.

A different procedure was recommended by Mrs. Kaj Louring. Chewing gum, unchewed.

"Take an unwrapped piece of chewing gum, any flavor, although I prefer the spearmint for its pungent aroma and flavor, and place the piece of gum on the package of cereal, flour or spice," wrote Louring.

"Use cellophane tape to tape it on, and then about every six months check each package and renew the gum with a fresh piece. I assure you, from personal experience, this really works."

Yet another method is recommended by Elizabeth N. Shor: Freezing. She fights both the flour weevil and the tiny black beetle pest found in such things as spices and fish food, with that method.

"To combat both kinds of pests, I use my freezer and my refrigerator," she wrote. "I freeze every newly purchased container of highly seasoned spices as I buy them, just overnight, before putting them into the cupboard (in case they are already infested).

"I store my cornmeal in the freezer and I find that it pours and mixes just as readily while frozen. I keep variety flours in the freezer." Shor said she buys seed mix in bulk for her parrot, and stores it in the freezer.

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Faye Schnuriger of San Antonio will conduct an oil painting workshop Oct. 23-27. Classes will be held in the Central YMCA.

San Antonian will conduct workshop here in painting

An oil painting workshop will be conducted by Faye Schnuriger of San Antonio in the Central YMCA.

The morning workshop will be held from 9 a.m. to noon, with the evening workshop from 6 to 9 p.m.

The instructor has studied with Fredrick Taubes, Fred Sauelson, Clint Baerymann, William Earle, Harold Koney and others. She teaches in her studio and is associated with the San Antonio College, teaching in the Institute of Lifetime Learning. She has been feature artist for lectures and demonstrations and teaches weekly workshops throughout Texas.

Tuition for the week-long session is $50. For registration and more information contact Paint & Palette, 20 Oak Ridge Square, or telephone 682-6681.

AT WIT'S END

Kids' challenge raising parents

By ERMA BOMBECK

The students at St. Edward High School in Lakewood, Ohio, wrote me recently and wanted to know what I feel is the greatest challenge facing young people today.

That's easy. The No. 1 challenge facing today's youth is raising parents.

In a world where Moms and Dads are influenced by television, liberation, exchange of sex roles, and permissiveness, young people are going to have to make parent-raising their No. 1 priority or the American family will fall apart.

I overheard two teenagers talking just the other day about their respective parents.

"Can you believe, I haven't eaten a meal with Mom and Dad for a week? Every night they make some excuse to go somewhere."

"I know what you mean," said his friend. "I saw my mother the other night whipping off and I said to her, 'Where do you think you're going in that outfit?' I swear she looked like Annie Hall on a bad day. She said, 'I'm going to a meeting. Everyone else's mother is allowed to go.' I get so sick of hearing that. Do you know I can't go to sleep until I hear her car in the driveway?"

"My Dad is worse. He lives in that car. Out in the morning, home late at night. Then he sits in front of that stupid TV set watching sports all the time. I asked him one night, 'Don't you have any work to bring home from the office?' He said he didn't but I know better."

"Have your parents talked about getting their own apartment?"

"That's all they talk about. If Mom had to do her own dishes every night and Dad had to take out the garbage, they'd be home in two days."

"I don't know...mine never seem to want to go anywhere with us anymore."

"Maybe we nagged 'em too much. Or maybe we listened too little."

There was silence, then one boy added, "Where did we fail?"

"I don't know. I got pretty wrapped up in sports one year it took a lot time. Maybe we left 'em alone too much?"

"That's no excuse for their making a life of their own."

Staining wood will enhance grain

By ANDY LANG
AP Newsfeatures

Staining wood to change its color can be fascinating, satisfying or frustrating — sometimes all three at the same time.

Fascinating because a stain can emphasize and enhance a grain pattern without hiding it; satisfying because it can change the character of a wood to make it resemble some other species; frustrating when you find it difficult to match exactly another piece of wood or furniture.

The fascination is always there. The satisfaction is not difficult to achieve. The frustration is there for a number of reasons.

For one thing, stains with the same names (maple, mahogany, walnut, etc.) sometimes produce different tones when made by different manufacturers.

For another, the same stain "takes" one way on one piece of wood and another way on a second piece.

And, possibly the most important, the user can get varying results by the manner in which he or she handles the stain, especially the amount of time allowed to elapse between the application and the wiping.

There are various kinds of stains. No matter which you choose, experiment with it first if you are a newcomer to staining. An oil stain can be made lighter by adding a little turpentine to it or by wiping it off within a minute or two after applying it. The longer it is left on before the wiping procedure, the darker it gets.

The same wiping principle holds true for penetrating resin finishes, which not only stain the wood but act as a final coat. It is well to follow the manufacturer's directions to the letter with these finishes until you have determined by experience which changes you can make to suit your purpose or to achieve a special effect.

Water stains raise the grain of the wood and should not be used on veneers, since they can soften any glue they touch. There are non-grain-raising stains that do better on woods with closed pores than on those with open pores.

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PERMIAN BASIN OIL SHOW: WEDNESDAY-SATURDAY

The Midland Reporter-Telegram

SECTION AA — SUNDAY, OCT. 15, 1978 — OIL SHOW EDITION

More than 500,000 visitors are expected to walk through the turnstiles at the left of the Permian Basin Oil Show sign this week during the four-day show which opens Wednesday at the Ector County Coliseum complex in Odessa. The exhibits will be open only to persons directly associated with the oil industry or one of its allied industries the first two days. The grounds will be open to the public Friday and Saturday. (Staff Photo by Ed Todd)

Biennial Basin oil show giant among exhibitions

The Permian Basin Oil Show! It is a giant among oil and gas exhibitions.

For persons directly associated with the oil industry or one of its allied industries, a visit to the hundreds of exhibitions is a must—if for no other reason than to be brought up to date on the very latest in equipment used in the exploration for oil and gas.

And, for non-oil members of the West Texas-Southeast New Mexico community the show grounds will be a good place to get educated to the ways of the Permian Basin's most important industry. There will be plenty of sights for everyone.

The huge four-day show gets underway Wednesday at the Ector County Coliseum complex and will run through Saturday.

Larry H. Byrd of Midland, president of this year's show, and Jay Alvey of Odessa, executive director of the big four-day exhibition, expect the turnout this week to be the largest in the show's history.

Held biennially, the show's exhibits feature everything to do with the exploration for and production of oil and gas from the smallest ball bearing to some of the giant drilling rigs of the industry.

The show's 445 exhibitors will put on view for the oilman and the general public every device imaginable that is associated with the petroleum industry—there will be exploration equipment, testing equipment, completion equipment, refinery equipment. You name it, it can be found somewhere on the show grounds.

And, it probably will take a grocery sack for the visitor to carry off all the free gifts that will be offered in many of the exhibit booths.

The 1978 version of the Permian Basin Oil Show will be represented by 22 states, including Texas, Arkansas, Arizona, California, Colorado, Georgia, Illinois, Iowa, Kansas, Louisiana, Michigan, Minnesota, Missouri, New Jersey, New Mexico, New York, Ohio, Oklahoma, Pennsylvania, South Dakota, Wisconsin and Wyoming.

And, there will be 53 cities from outside Texas with exhibits at the mammoth show.

California leads in this category with nine of its municipalities in attendance: Bakersfield, Huntington Park, Laguna Beach, Long Beach, Los Angeles, Newport Beach, San Diego, San Fernando and Santa Ana.

Oklahoma follows with eight: Broken Arrow, Duncan, Eufaula, Muskeegee, Norman, Oklahoma City, Shawnee and Tulsa.

Louisiana is represented by six cities, Abbeville, Gretna, Lafayette, Houma, Mansfield and New Orleans.

The champion out-of-state city from the standpoint of number of exhibitors is Tulsa. That city, the No. 1 oil city in Oklahoma, will have 16 exhibitors at Odessa.

Oklahoma City follows with 12 exhibitors.

Other out-of-state cities sending more than one exhibitor to the show grounds are: Denver, Colo., and Hobbs, N. M., six each; Newport Beach, Calif., five; Chicago, Ill., and Wichita, Kan., four each; Los Angeles, three and Farmington, N. M., and Cleveland, Ohio, two each.

Host city Odessa is the grand champion among all the cities with 140 exhibitors. Houston, the oil capital of the world, will be represented at the show by 74 exhibitors.

And, Midland, the headquarters city of the vast Permian Basin Oil Empire, the largest oil producing province in the United States, will have 45 companies showing their wares and technology during the four-day show.

The fifth top exhibiting city (following fourth place Tulsa with its 16 exhibitors) will be Dallas with 14 companies on hand.

In all, 40 cities within the Lone Star State's boundaries will have one or more booths or other exhibit areas at the Ector County Coliseum complex.

They are: Abilene, Andrews, Arlington, Austin, Barker, Big Spring, Borger, Brady, Carrollton, Conroe, Crane, Dallas, Del Rio, Electra, El Paso, Fort Worth (8), Gainesville, Gatesville, Hamlin, Longview, Lubbock (8).

And, Mansfield, Marble Falls, McCamey, Monahans, Porter, Richardson, San Angelo, San Antonio, Snyder, Temple, Tomball, Throckmorton, Tyler, Uvalde, Waco and Wichita Falls.

Larry H. Byrd

Jay Alvey

Oil show schedule

Tuesday: Exhibitor's and press cocktail party 7 p.m. to 9 p.m., Pan American Ballroom in Odessa.

Wednesday: Show grounds open at 10 a. m. for petroleum industry personnel only. Show grounds close at 8 p. m.

Thursday: Show grounds open at 10 a. m. for petroleum personnel only. Show grounds close at 8 p. m.

Friday: Oil show parade starts moving at 11 a. m. in downtown Odessa. Opening ceremonies at 1 p. m. at front gate of Ector County Coliseum complex. General public invited. Show grounds close at 8 p. m.

Saturday: Show grounds open at 10 a. m. General public invited. Chuck Wagon Gang barbecue at 5 p.m. on the oil show grounds. Show grounds close at 8 p. m.

PB Oil Show's board of directors from 11 Permian Basin cities

I really can't say exactly how many people are working in the oil show this year, Jay Alvey of Odessa, the general manager of the Permian Basin Oil Show, said.

The show, expected to be the most successful from the standpoint of number of vistors in the 28-year history of the biennial event, gets underway Wednesday at the Ector County Coliseum.

"There is no way under the sun that the oil show, or even a company, could assemble and hire the type and caliber of people working for free at the Permian Basin Oil Show," J.W. "Bill" Hall, immediate past show president said. "Every man is an expert in his field and everyone of them is capable of taking an assignment and carrying it out all the way to the end and then go on to help someone else."

SHOW PRESIDENT

Larry Byrd, division production manager for Exxon in Midland, is president of this year's edition of the huge exposition, billed as the largest of its kind in the world.

He and Alvey are the first to admit that an undertaking of this magnitude could only be carried off with hundreds of outstanding volunteer workers.

Serving with Byrd on the executive committee are Frank Ratcliff, Midland, vice president; Joe Womack, Midland, vice president; Eddie Durrett, Odessa, vice president; Hall, immediate past president; Alvey; Lewis Gray, Odessa, treasurer; Frank Lovering, Odessa, past president; Vernon Blain, Odessa, past president; Pat Fletcher, Midland, past president; Lloyd French, Midland, past president; John Ed Cooper, Midland, past president; Ernie Schur, Odessa; F. L. Thompson, Midland, and Gene Clarke, Odessa.

> "There is no way the oil show or even a company could assemble and hire the caliber of people working for free on the Permian Basin Oil Show."

BE ON BOARD

There are 186 persons on the board of directors, including members of the executive committee.

Although the show is held in Odessa, it truly is a Permian Basin event as shown by the makeup of the board of directors.

The board includes 74 Midlanders, 36 Odessans, six persons from Monahans, three from Andrews and four from Hobbs, N. M.; two each from Kermit and Levelland, and one each from Fort Stockton, San Angelo, Crane, Big Lake and Rankin.

The Midland members are:

G. W. Barb, Mobil Oil; R. K. Beggs, Sun oil; W. Gus Bealmear, Baroid; Harold L. Bethancourt, Sun Oil; Ted Bicknell, Western Co.; Don Brown, Monsanto; H. Sid Buller, Southwestern Drilling Mud; Larry Byrd, Exxon; Clarence Cardwell, Atlantic Richfield; A. B. Cary, Getty Oil.

And, W. E. Chapman Sr., Oil Well Servicing; A. J. Clarke, petroleum engineer; C. O. Cullins, American Quasar; G. W. Coombes, Union Oil; John Ed Cooper, retired; T. J. Cruthfield, El Paso Natural Gas.

And, T. P. Drew, DOWDCO; A. M. Duftenhueffer, El Paso Natural Gas; G. E. Eng, The Permian Corp.; A. J. Evans Jr., Gulf; L. A. Feagan, Southern Union Refining; H. T. Finney, Union Oil; P.E. Fletcher, Runco; F. L. Franz, Sioltz & Wagner; Earl Frederickson, Noble Drilling; John Freeman, Uniton Texas; Lloyd French, retired; Zack Gibson, IMCO Services.

And, J. D. Guidry, Gulf Refining; G. H. Hacke, Exxon; E. E. Hagan, Chevron Oil; Charles Hartwell, Cities Service; Richard Hinkle, Chevron; W. J. Holbert, Bowan Drilling; Jim L. Huitt, Gulf; Clint Hurt, Clint Hurt & Associates; D. L. Leyerly, Hughes Tool; Sid Lindley, Champion Chemical; Lee Latke, Engleman General; Lewis McGaffee, Continental Oil; J. D. McLaughlin, Cardinal Chemical; D. E. Morris, Marathon Oil; Bill Myers, Helco Fishing Tool; T. B. O'Brien, petroleum engineer; Joe Plemmons, IMCO Services; F. L. Pool, Sharp Drilling; Gayle Pruett, Halliburton.

And, J. E. Pullig, Bass Enterprises; F. C. Ratcliff, Hughes Tool; J. E. Reed, DA&S Oil Well Servicing; J. G. Roper, Tom Brown; Joe Salman, Midland Reporter-Telegram; J. E. R. Sheeler, retired; J. M. Shepherd, Exxon; George Slaughter, Southland Royalty; Cecil Smith, Land & Marine Rentals, Wilson Smith, Dowell.

And, Ken Terrell, Atlantic Richfield; F. L. Thompson, A. W. Thompson; R. E. Throckmorton, Sharp Drilling; Roy G. Uhl, Gray Tool; K. D. Van Horn, Cities Service; Jack Walters, Sohio; W. D. Watson, retired.

And, Walt T. Weller, Shell Oil; H. G. Westberry, retired; C. W. Williams Jr., independent; Joe Womack, Texas Pacific Oil; A. W. Wood, retired; F. S. Wright Jr., retired, and J. R. Wright, retired.

ODESSA MEMBERS

The Odessa members include: A. C. Akins, E&L Equipment; Carroll Albritton, Ector County Coliseum; W. I. Allen, Amoco; Jay Alvey; Ed Barham, B&B Construction; A. C. Barnes, Ace Mud; J. L. Barnett, Barnes; B. C. Bell, Shell Oil; Mickey Bell, Bell Specialties; Vernon Blain, Johnn Drilling; W. M. Champion, Laffkin Industries; E. E. Clark, Phillips Petroleum; R. A. Coleman, Gulf.

And, J. A. Conner, Conner Construction; D. A. Davidson, retired; E.

(Continued on Page 2AA)

Frank N. Ikard to be honored Friday

During each biennial Permian Basin Oil Show the exposition is dedicated to some phase of the energy industry and an honoree is selected who is representative to that phase.

Frank N. Ikard, president of the American Petroleum Institute since 1963, has been named as honoree of the 1978 Permian Basin Oil Show.

As honoree of the current oil show Ikard will symbolize the oil industry's constant battle against government regulations and interference while trying to meet the nation's demands for energy.

As API president, Ikard heads one of the world's largest trade organizations. He first became associated with API in 1961 when he was named executive vice president, a position he held for two years until he was named president in 1963.

Ikard is well suited for the top API position because he was a practicing attorney and a former member of Congress.

Although Ikard's office is in Washington, D.C., he maintains his official residence in Wichita Falls.

A native of Henrietta, near Wichita Falls, Ikard began the practice of law in Wichita Falls following his graduation from the University of Texas Law School in 1936.

His law practice was interrupted in 1942 when he entered the Army during World War II. He was a combat infantryman in Europe, where he was wounded twice, captured by the Germans and spent the remainder of the time as a prisoner of war.

The honoree returned to his law profession in Wichita Falls in 1947 where he was in private practice until 1951 when he was elected to the U.S. House of Representatives in 1951 from the 13th Congressional District which includes Wichita Falls and the Panhandle of Texas.

During his 10 years in Congress, Ikard was a member of the House Ways and Means Committee. He resigned his Congressional seat in 1961 to become executive vice president for API.

In addition to serving in Congress, Ikard also served four years as a district judge in Wichita Falls. He has been admitted to the practice of law in Texas, the District of Columbia, and the Supreme Court of the United States.

After being named to his position with the American Petroleum Institute in Washington, Ikard continued to render service to his native Texas.

He was appointed to the Board of Regents of the University of Texas System in 1965 to fill a two-year unexpired term. He was re-appointed to a full six year term as a regent in 1967. Both appointments were made by the then Governor John B. Connally. Ikard was elected vice chairman of the board of regents in March 1971 and also served as chairman of the regents' executive committee.

Ikard holds a life membership in the UT Ex-Students' Association and was a member of the board of the Houston Medical Foundation, a nonprofit corporation formed to assist in the development of the UT Medical School at Houston.

He has served on the advisory board of Georgetown University's Center for Strategic Studies in Washington and also on the board of several industrial and financial institutions.

He is a member of the National Petroleum Council and a U.S. Committee member for the World Petroleum Congresses. Ikard is also secretary and trustee of the John F. Kennedy Center for the Performing Arts.

Ikard attended the UN Conference on the Human Environment at Stockholm as a member of the U.S. delegation.

As honoree of the 1978 Permian Basin Oil Show, Ikard will be presented during ceremonies at noon Friday in front of the main gates of the oil show grounds.

14 presidents serve show

The modern version of the Permian Basin Oil Show (two were held before the outbreak of World War II) has seen 14 show presidents take their turn at successfully ramrodding the event.

Lloyd R. French of Midland, president of French Tool & Supply, was the first president when the show was resumed in 1950 and he is the only man to be president of back to back shows, having served a second time in 1952.

W. D. Lane, Midland, superintendent of the West Texas Production Department for Plymouth Oil Co., was the second man to take over. He served in 1954.

Other past presidents are Roy Carter, Kermit, Carter Foundation; Arno Anders, Continental Oil Co., Odessa; J. C. Hostetler, Hostetler Engineering, Monahans; O. D. Albright, Sun Oil Co., Odessa.

And John Ed Cooper, Midland, BBM Drilling; Fred G. Courtney, Andrews, Gulf Oil Corp.; J. A. McVean, Odessa, McVean & Barlow; P. E. Fletcher, Midland, Atlantic Richfield Co.; Vernon Blain, Odessa, Johnn Drilling Co.

And, Frank Lovering, Odessa, Phillips Petroleum Co.; J. W. Hall, Odessa, Loffland Brothers Co.

Lane, Carter, Hostetler, Albright, Courtney and McVean are deceased.

Larry Byrd, division production superintendent for Exxon Co., U.S.A. in Midland is president of the current show.

Alvey no oilman, but he knows about shows

ODESSA—Jay Alvey isn't an oilman. In fact, he has never been an oilman and hasn't given any indication that he even wants to be an oilman.

So, what is he doing serving as general manager of the Permian Basin Oil Show for the 22nd year? There are a pair of reasons. First, he works cheap, and second, he is highly successful at it.

If a person had to describe Alvey's philosophy concerning the Permian Basin Oil Show it would have to be, "It's hard to improve on success."

Professionally, Alvey is vice president of Odessa's First National Bank where he is in charge oxf the Marketing Department. Ernie Schur, chairman of the bank's board of directors, said Alvey was "loaned" to the oil show 22 years ago when the show was in trouble and needed some help, and he has been doing the job of managing it ever since.

With the staging of the 1978 Permian Basin Oil Show this week in the Ector County Coliseum complex, Alvey will be in his 22nd year as oil show manager. He has served under all but two of the show's president, and probably knows more about the Permian Basin event than any other man alive.

Because of his long experience in putting the show together most of the ones in the past have been pretty much routine with only those problems that come up in the last-minute scheduling causing him any worry at all.

Alvey is a man who favors change in the oil show, but only if it will be of benefit to the entire show and he is sure it will work. He admits that he has made some changes in past shows that didn't work out as well as expected, but he wasn't afraid to go back to the proven way of doing things until something better could be found.

The 1976 Bicentennial Oil Show probably reflected more changes than any show since Alvey has been manager. That was the year the Ector County Cioliseum was opened to exhibitors for the first time. And even then, Alvey was a little hesitant to tell the board of directors of the show that the entire 125 new spaces would be sold by showtime.

> Jay Alvey has directed Permian Basin Oil Show 22 years, serving under 11 show presidents.

In fact, Alvey was quick to tell the board that some of the coliseum might have to be blocked off with a large curtain to hide the unsold space.

It just proves that even Jay Alvey can be wrong about the possibilities of the Permian Basin Oil show. The coliseum was sold out a month prior to the 1976 event and most new exhibitors said they wanted the same space for the 1978 show.

After the coliseum was sold out that year, only one building remained where additional space could be had for exhibitors. That was E Building on the coliseum grounds which traditionally had been used for storage of exhibitors' display crates.

Once again Alvey told directors the additional space might not all be sold, and once again he was wrong. After the first week of taking orders for space, the building was filled and still there were companies clammoring for space. But there just wasn't any more to be had.

This year, only one change of note has been made in the staging of the oil show. F Building, which always has been reserved for booths of chambers of commerce and other civic and business organizations, has been turned over to exhibitors with oil-related companies.

"We hated to do away with the spaces for the chambers and other organizations," Alvey said, "but our exhibitors and visitors spend a ton of money to come to Odessa for the Permian Basin Oil Show and the directors just felt the show should feature as many oil-related exhibits as possible because that is what they come here for," Alvey said the oil show this year has 130 outside spaces for exhibits and 527 inside spaces for a total fo 657 exhibit spaces.

"That may sound like lots of space," he said, "but it really isn't. It was all sold out three months before the opening date and we still had a waiting list."

"In the future, I think we will have to be more selective about new exhibitors for the show," Alvey said. "From now on, if we take on a new exhibitor, that company will definitely have to be in an oil-related business of some type."

Few of Alvey's suggestions for changes to the board of directors have even caused a ripple among the directors over the years. Mainly because they know he has thought it out and he is pretty sure it will work.

There was one suggestion for the 1976 Oil Show that caused more than a little discussion at one

(Continued on Page 2AA)

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Nuclear energy gaining worldwide adherents

WASHINFGTON, D.C.—Nuclear energy, as a source of electricity, continues to gain adherents throughout the world.

In a little more than a year, the number of countries outside the United States with announced nuclear energy programs rose from 46 to 52; electrical megawatt capacity of total plant commitments rose 20 percent, to 436,012 megawatts (586 reactors); nuclear-plant orders are up substantially, from 12 units (12,171 megawatts) ordered in 1977, to 29 units (27,711 megawatts) scheduled to be place on the books in 1978.

"Developing countries—where energy options are especially limited—account for much of the nuclear commitment increase," Atomic Industrial Forum President Carl Walske said in releasing that trade association's fifth annual international reactor survey.

Altogether, 43 countries outside the U.S. (this year including for the first time Libya and Iraq) now have firm, detailed nucler energy programs.

The 1977-1978 comparative totals show, with 1978 figures first: operable, 56,350 megawatts (151 reactors)-47,655 megawatts (138 reactors); under construction, 126,618 megawatts (155 reactors)-90,943 megawatts (118 reactors); on order, 38,744 megawatts (45 reactors)-42,135 megawatts (50 reactors); planned 214,300 megawatts (235 reactors)-182,058 megawatts (175 reactors). Totals: megawatts 436,012 in 1978 versus 362,791 megawatts in 1977; 586 reactors in 1978 vs. 481 reactors in 1977.

Nine additional countries—Australia, Bangladesh, Chile, the People's Republic of China, Colombia, Greece, Kuwait, New Caledonia and Venezuela—have long-range but undetailed, nuclear programs. (Hong Kong is no longer in this group, having cancelled its program with the past year.)

The AIF survey indicates that only two of the anticipated 29 reactor orders (in seven countries) will be placed with U.S. manufacturers, once the dominant suppliers to the world; the other 27 orders are going to European and Canadian vendors.

"This loss for the U.S. economy is, in good part, traceable to recent U.S. government policies, which have tended to discourage foreign orders of U.S. reactors," Says Walske, adding: "The agreement last August, by which Iran is allowed to buy U.S. reactors, will, perhaps, begin a reversal of this situation,."

The AIF survey shows that in 1977, as in 1976, Belgium led the world in the percentage of its electricty produced by nuclear energy—22.4 percent. Next were Sweeden (21.7 percent); Switzerland (16.8 percent), France (13.4 percent), and the German Federal Republic (11.0 percent). About 12 percent of the electricity produced in the Unites States was nuclear in 1977.

Reliance on nuclear energy outside the U.S. is most dramatic, perhaps in projections made for the rest of this century, even though these forecasts have been pared down from earlier ones," Walske says.

For example, while the U.S. plans to have its nuclear installed capacity (as opposed to production) account for 12 percent of total generating capacity in 1980, eight other countries will lead the U.S. percentage by then. These include France (26 percent), Sweden (24.5 percent), and Bulgaria (20 percent).

Reports from the Soviet Union indicate that in 1978 the USSR will have 11,785 megawatts of installed nuclear capacity, up nearly 50 percent in a year, and that this total will rise to 28,670 megawatts in 1980. (Outside sources consider this projection to be optimistic.

The fast-breeder reactor has an important place in the electricty generating futures of several countries, including the USSR, where a 12-megawatt unit and a 150-megawatt breeder already are producing electricity, and breeders of 600 megawatts and 1,600 megawatts are under construction.

France has a 250-megawatt breeder in operation and is building a 1,200-megawatt commercial reactor, in cooperation with Italy, West Germany and the Benelux countries. The West Germans are building their own 280-megawatt breeder, with the Belgians, Dutch and the United Kingdom; West Germany also heads a consortium making preliminary plans for a 1,300-megawatt reactor.

Japan has started up an experimental breeder and is constructing a 300-megawatt demonstration unit. The United Kingdom, which has a 250-megawatt plant now operating, plans to build another, with 1,300-megawatt capacity. India has begun building an experimental unit.

The Atomic Industrial Forum's international report was prepared in consultation with utilities, manufacturers and government agencies, and the International Atomic Energy Agency. The AIF is an international association of more than 600 utilities, suppliers, construction firms, financial institutions, universities and other organizations interested in the peaceful development of nuclear energy.

Alvey show director

(Continued From 1AA)

meeting of the board of directors.

Someone suggested laying carpet in the aisles between the exhibit booths, just to give the show a little "class." For the oilman who works out in the field most of the day, class was something that he wasn't accustomed to, or even thought about.

But directors finally approved the installation of carpet in the aisles in 1976 and for the first time show visitors literally were given the red carpet treatment, as well as the blue carpet treatment.

In the 22 years since Alvey has been the show's general manager things have changed.

"In the early days, we had variety shows and a fair atmosphere in conjunction with the oil show," Alvey said. "However, exhibitors asked that we discontinue this because they wanted a trade show where they could display their goods and services and meet potential customers in a more business like atmosphere."

Another change came in 1962 when the show was closed for a day so exhibitors would have a better chance to talk to potential customers who were actually engaged in the oil business. Exhibitors liked the arrangement so well that it has become a tradition and the show is now closed for the first two days to the general public and only oil-related people are allowed on the grounds.

Midlanders on board

(Continued from Page 1AA)

J. Davis, Cardinal Chemical; Lyle DeBolt, The Odessa American; E. G. Durrett, Durrett & Associates; R. E. Durrett, retired; A. R. Dyer, Odessa Savings & Loan; Dave Fitzgerald, Slough Equipment; E. D. Foster, Phillips Pipeline; Clay Fellabaum, B. J. hughes; Lewis Gray, A-1 Construction.

And, T. L. Gregory, Gregory Rig Service & Sales; J. W. Hall, Fas-Line Sales & Rentals; Q. L. Hall, Shorty Hall Rig; R. E. Hamilton, French Tool & Supply; Charles Harris, Odessa Drum; R. B. Hart, Woolley Tool & g.; Derrell Henry, American Bank.

And, Norman Hesser, BMW/Monarch; U. G. Holliman, Cabot Corp.; Bob Horn, Odessa American; W. A. Hutcheson, First National Bank of Odessa; Leon Koonce, Texas Mud & Chemical; F. F. Lovering, retired; W. H. Masterson, Miether Machine Works; R. Dean McManigle, Devonian Well Service.

And, D. W. Matthews, Continental Oil; Wilbert Miether, retired; Lewie Montgomery, Montgomery Trucking Co.; L. F. Moore, Mission Well Service; Joe V. Neeper, Exxon Pipeline; S. J. Okerson, Amoco; Charles Overstreet, Loffland Brothers; C. W. Pillow, Clyde Construction.

And, E. W. Porter, Forest Oil; E. M. Schur, First National Bank; L. J. Scott, Phillips Petroleum; L. B. Sherman, Sherman Power Tongs; C. R. Sivalls, Sivalls Tanks; Bobby Sparkman; Liberty Reverse Units; Homer Stewart, State National Bank; William J. Vance, Odessa Natural; Naylon Vencil, Dresser Industries, and J. R. Wright, retired.

OTHER MEMBERS

From Hobbs are Alan Antweill, Hobbs Pipe & Supply; Bob Moran, Moran Producing & Drilling; Howard Wagnon, Drilprodco, and Paul Thompson, Continental Oil.

From Monahans are George Bentley, George R. Bentley Construction; E. L. Kent, Kent Distributors; Joe McGee, C. E. Matco Chemicals; R. M. Lorr, independent operator; D. E. Ramsey, MR Oil, and J. W. Thrasher Jr., Thrasher Trucking.

From Rankin, the member is C. E. Taylor, Halliburton Services.

Directors from Andrews includes: C. V. Campbell, retired; Bill J. Ingram, Exxon, and W. A. Kimbrough, retired.

From Kermit are R. R. Flattley, Sid Richardson Carbon & Gas, and H. W. Keith, consultant.

J. L. May, independent operator, is the lone member from Fort Stockton.

The San Angelo member is F. M. Pool, Pool Co.

Serving as director from Crane is Horace Poole, Getty Oil.

The Big Lake member is Frank Sandel, with Globe Well Service.

From Levelland are V. E. Staley Jr., Amoco Production, and Leo Wade, Getty Oil.

HONORARY MEMBERS

There are 13 honorary board members, all of Odessa. They are:

Glen Atkins, American Bank; J. B. Bynum, Schlumberger; R. E. Chenault, AAA Welding & Engineering; Eddie Echols, Echols and Lewis Real Estate; Bill Hickdman, State National Bank.

And, H. M. Hamilton, The Hamilton Co.; J. C. Johnson, Odessa Electric Service; E. O. Kember, retired.

And, Jerry Lyon, Baker Oil Tool; Dick Mapp, Mapp Tank Co.; C. C. Michel, The Finder Co.; V. W. Parr, Parr Distributing, and Lynn Riggs, Harlow Sammons of Odessa, Inc.

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Odessa, Texas

University of Oklahoma creating unique file

NORMAN, Okla.—A $1.8 million project for the creation of a unique data file on oil and gas production and reserves has been awarded to the University of Oklahoma Energy Resources Center by the U.S. Department of Energy.

The $1,850,000 is for the first year of a proposed three-year $6.4 million project and is the first major contract for OU's newly-established Energy Resources Center, announced OU President Paul F. Sharp. The contract includes the option for DOE to continue funding for the second and third years,.

"The University of Oklahoma has been active in energy research for many years. We established the first school of petroleum geology in the nation, we have educated many of the nation's leading geologists and engineers, and now, through this significant contract, we will become the nation's center for oil and gas information," Sharp said. "In addition to assuring the university's position at the forefront of this field, the contract will have an impact on OU's educational programs and on our energy-producing state."

The project is being administered through DOE's Energy Information Agency, which collects data on production and reserves of crude oil and natural gas in the United States, explained Dr. Charles Mankin, interim director of the OU Energy Resources Center. The data collected by the agency are used by the government in planning its energy policies.

We will build a unique file on all oil and gas fields in the United States and to the extent possible, all reservoirs in those fields," explanied Mankin. "In effect, we will be serving as the nation's center for the collection and processing of oil and gas information."

Data for the fill will be obtained through questionnaires being sent by the Energy Information Agency to all oil and gas operators. The operators will submit information on their production and reserves and that data will be entered into a machine-retrievable system.

The University of Oklahoma has been active in energy research for many years.

"Our first task will be to develop a sysgtem to handle the data," Mankin noted. "Once the data are entered, we will perform a number of data validation tests to determine the accuracy of the information received."

To perform this task, the OU Energy Resources Center will have to employ a number of additional people, Mankin said. Eventually, as many as 80 people may be involved in the project.

"We probably will use quite a few graduate students, which will give them a unique indepth educational experience," he added.

The government will use the system to obtain information such as the amount of crude oil or gas available at any specific time, or other data that can be used in making energy policies or decisions.

Similar data have been supplied in the past by agencies working within the industry, Mankin said. "Many people just refused to believe that information because it had been provided by industry-sponsored agencies. But most people in the industry recognize the necessity for such information and want to see the data compiled and processed by someone with knowledge of the subject."

The Energy Resources Center, which will be housed temporarily in OU's Physical Sciences Center, is still in the initial stages of development. It was first proposed by the university in early 1977 to provide the manpower and technology for improving the development of present and potential energy souces, primarily the fossil fuels. Mankin was appointed interim director in April.

The center's thrust will be to focus the expertise at OU toward the development of new knowledge related to energy resources; provide government officials and private industry with information that will help them address energy problems, and develop and energy information service creating and maintaining computerized files of petroleum and other energy resource data.

In Addition to the activity required by this contract, the Energy Resources Center's Office of Information Systems Programs also has under its direction several energy contracts including the Petroleum Data System and the Computerized Resource Information Bank which is the mineral resource data base for the U.S. Geological Survey.

"The expertise of Jerlene Bright, director and the staff of the Information Systems Program is developing and maintaining very large petroleum data files was the key to our getting this project," Mankin said.

Economist predicts gas solar system will be low on '85 list

WASHINGTON, D.C.—Solar energy home heating and hot water systems installed in 1985 and backed up by natural gas will cost an average of 35 percent less to install and operate than electric-backed solar energy, according to an American Gas Association economic analysis.

A.G.A. President George H. Lwrence said the study, "An Economic Comparison of Gas/Solar House heating Systems Versus Electrie/Solar Systems," shows that a gas/solar home system would average $1718 in ownership and operating cost per year over all U.S. regions (1985 dollars) versus $2,-639 yearly for an electric/solar system, even assuming advancd heat pump technology for the electric system.

The analysis concludes that gas/solar will remain lower in consumer cost in all regions of the U.S. than electric/solar systems, on either an equipment, or an operating cost basis, or both, Lawrence said.

Four categories of heating systems and their projected annual operating costs as of 1985 were comapared. Combination electric heat pump/solar heating ranked as the most expensive of all systems, with projected annual U.S. average cost of $2,-639;' while conventional electric systems equipped with heat pumps ranked as the second most expensive with projected costs of $2,280 annually.

"However, conventional gas heating will still be less expensive in 1985 ($835 per year) than either gas/solar or combination electric heat pump/solar systems, according to the analysis," Lawrence noted.

Lawrence said, "Gas energy is now and will remain the most logical, most econo mical, and enviromentally compatible choice for solar combination systems. Thus, our new study suggests that solar energy enthusiasts should also be gas energy enthusiasts because gas can allow this future energy technology to be introduced with the least consumer cost."

1978 joint drilling program complete

HOUSTON—General Crude Oil Co., a whollowned subsidiary of International Paper Co., and Houston Oil & Minerals Corp. announced results recently upon completion of their joint venture's 1978 drilling program in the western Brooks Range of Alaska.

During the 1978 field season, 79 core holes, totaling approximately 35,-000 feet of core drilling were completed in an area of about 200 acres.

Sixty-five of these core holes encountered mineralization in various zones at depths ranging from 30 to 850 feet. Preliminary alalysis of the cores indicate approximately 19 million tons of mineralized rock containing an average of 3.3 percent lead, 9.3 percent of zinc and 1.4 ounces of silver per ton,. Substantial additional drilling will be required to confirm these estimates and to define the full area extent of the deposite.

The exploration was conducted on federal mining claims approximately 80 miles north of Kotzebue, Alaska, and 50 miles from the Chukchi Sea. The possibility of a major mineral discovery at the site was first announced by the two comanies in September 1977 after the completion of seven core holes. After announcement, only three additional holes were drilled before the onset of winter required the suspension of the 1977 exploration program.

The companies now are working on an order-of-magnitude feasibility study to make a preliminary determination of the economic potential of this deposit.

Full analysis of the results from the 1978 exploration program will not be completed until late 1978 or early 1979 at which time a decision can be made as to the type and extend of further drilling and other analyses required.

Because of the difficulty of mine construction north of the Arctic Circle, the time required to comply with environmental and other governmental regulations and the lack of existing transportation facilities, it is anticipated that should a commercial mine be developed, production would not begin for a number of years.

Further, if certain pending federal regulations are issued, or if certain pending legislation is adopted, additional work in the area may be restricted or become economically attractive.

General Crude Oil Co. is the joint venture operator and has an equal interest with Houston Oil & Minerals Corp. in the claim area.

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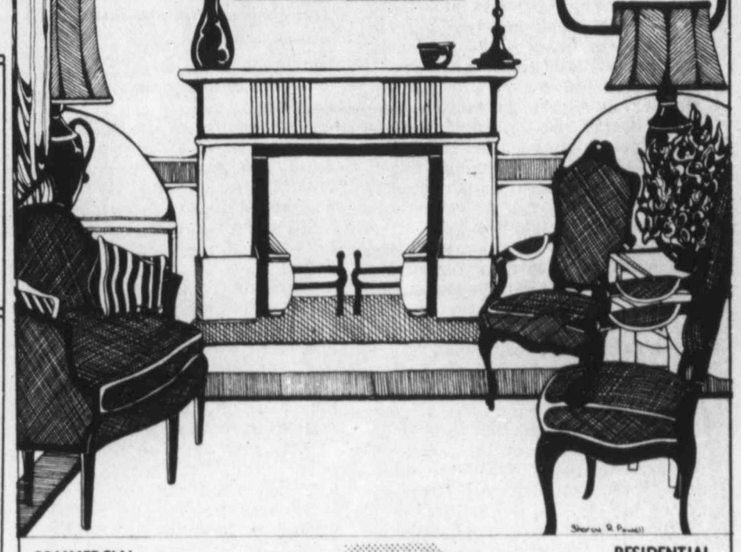
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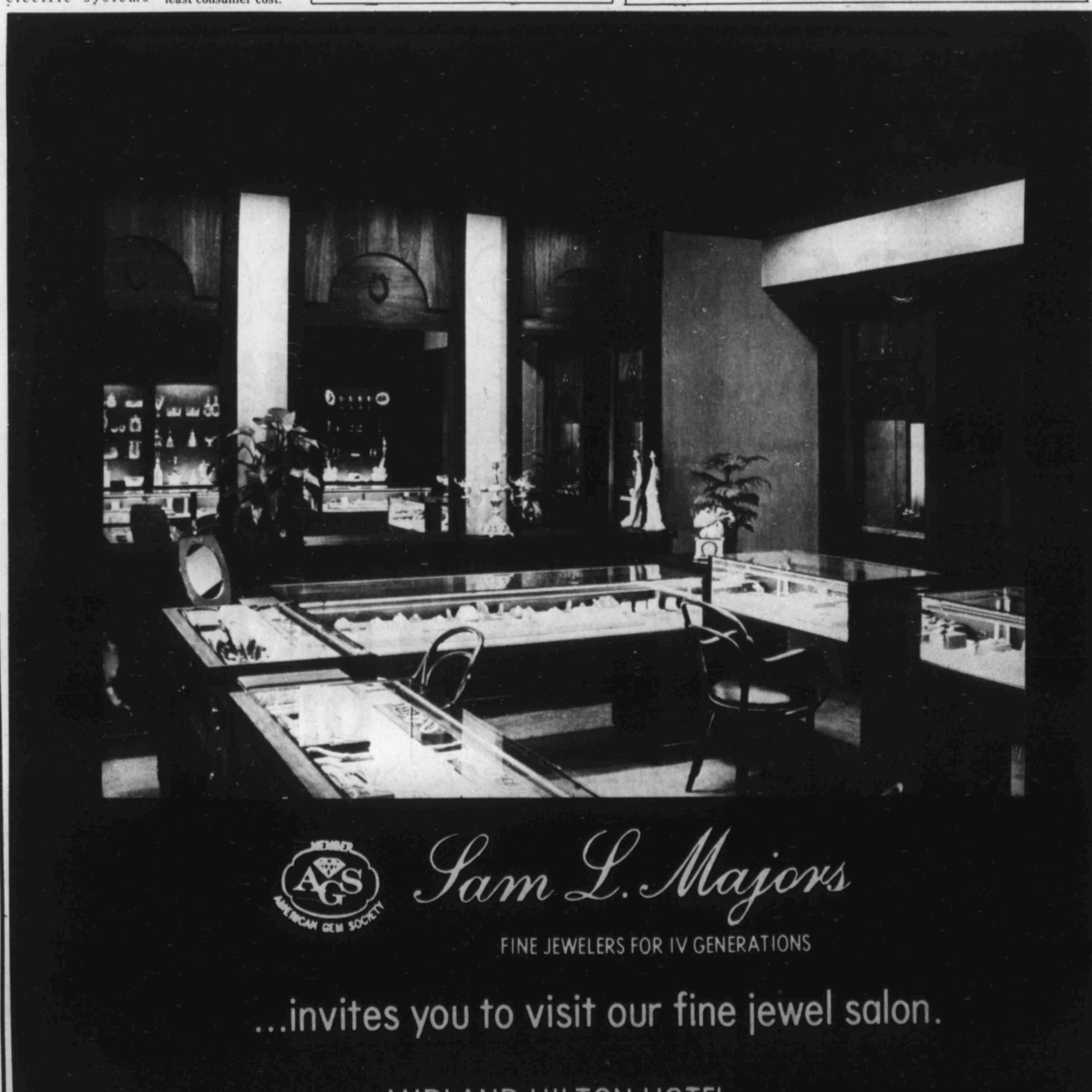
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API fears effect of another Mideast embargo

WASHINGTON, D.C.—How would the nation fare should there be another Arab oil embargo?

The American Petroleum Institute tries to answer that question in the following statement released last week.

"Answer: Not well. Although there has been a considerable increase in private storage of oil and some efforts at conservation, the U.S. is consuming more, and more importantly, importing increasing amounts of oil from the Middle East.

"In October 1973 when the embargo began, oil imports accounted for 36 percent of U.S. demand. Today, despite the recent temporary decline, imports account for 42 percent of U.S. demand. Long-range predictions foresee a gradual increasse until 1990, when imports will amount to 50 percent of U.S. consumption.

What is even more disturbing is the fact that only 14 percent of U.S. impots used to come from the Arab nations. Today, five years later, those nations now supply nearly 50 percent of all U.S. oil imports. If a 14 percent cutoff in oil shipments could wreak havoc as it did in 1973, a 50 percent stoppage now could be much worse. The last embargo, according to some calculations, caused a $10 to $20 billion loss in the Gross National Product, and the temporary loss of 500,000 jobs.

"A good case could be made for the premise that the root cause of the nation's current energy problems was the war that broke out five years ago, on Oct. 6, 1973, between Israel and the Arab nations.

"On Oct. 17 that year, Libya, Saudi Arabia, Iraq, Kuwait, Algeria, Egypt, Abu Dhabi, Bahrain, and Qatar met in conference and voted a five percent cutback in oil production from their countries, with a similar reduction planned each month until Israel withdrew from Arab territory occupied during the 1967 Arab-Israeli war.

"But in little more than a month, on Nov. 26, the Arab states announced a total embargo of oil shipments to the U.S. They said the cut-off would remain in effect until the U.S. withdrew support from Israel.

"It was not the embargo alone, however, that caused the oil shortage that was to follow in the U.S. In an effort to 'share the shortage,' the U.S. government promulgated regulations at the onset of the embargo that effectively prohibited refiners from processing more than a certain amount of crude oil, even if such oil were available.

"Because stocks of crude oil and products were high, and some shipments were still in transit, the full effects of the embargo were not felt until the early weeks of 1974. By then, the country had begun to react. Some companies started reducing lighting, shutting down machinery, and setting up new energy saving policies.

"The chemical industry was affected more than most, because of its heavy reliance on petroleum to make fertilizers, plastics, rubber and other materials. Major industries dependent on these dproducts, such as automobiles, pharmaceuticals and textiles, had to curtail operations.

"Approximately 20,000 gasoline stations—about 10 percent of the nation's total—closed down. Other stations closed on weekends. Some states instituted certain days for motorists to buy gasoline—drivers of cars with odd license plate numbers were eligible to purchase on odd number calendar days. Motorists with even plates bought on even days. Everywhere, long lines of motorists formed to buy gasoline.

"In some cities, hundreds of cars stretched as far as the eye could see, some lines winding around corners creating traffic jams. As the lines lengthened, tempers shortened. Fistfights were reported, and some motorists even pulled guns on attendants.

"Demand for siphoning equipment and gasoline tank locks rose. Many motorists bought additives in efforts to stretch what gasoline they could find.

"Gasoline rationing was seriously considered by the President, and coupons were presented.

"Congress reduced the highway speed limit to 55 miles an hour—a limit that is still in effect. Commuters formed carpools, or bicycled, or walked to work. Overall driving decreased by five percent as Americans joined in a wide-spread conservation effort.

"Because of fuel shortages, airlines shortened, or cancelled schedules, and some of these forced changes are still in effect today.

"Congressional and administration leaders agreed to collaborate on a bipartisan fuels emergency act. The legislation gave the President wide powers to cope with the shortage, among them the authority to limit business hours.

"Interior Secretary Rogers C. B. Morton said at the time: 'We may even have to start closing our schools. On a long-range basis, there's going to have to be a change in the American ethic. We'll have to go to smaller cars and higher costs for gasoline and heat. People will have to learn some harsh lessons.' "Although the Arab-Israeli war had ended comparatively quickly with a UN-sponsored ceasefire on Oct. 24, the Arabs did not call off their boycott of the U.S. until March 19, five months after it began. Meanwhile, they had raised their crude oil prices four-fold, thus igniting a recession-inflation-trade deficit crunch.

"After the embargo ended, people began looking for scapegoats, and the most visible were those whose names appeared on the gasoline pumps that had suddenly gone dry—the oil companies. Consumer advocates, including Ralph Nader led the outcry: 'Unarmed robbery by oil companies and the government.' Some Congressmen joined in: 'One major oil company is delaying truckloads of fuel.' Even service station employees were quoted: 'The big oil companies are running up the price.'

"Yet the oil companies for years had been warning, and still are, that over-dependence on foreign oil would one day cost the country dearly.

"The fact is that the U.S. government was totally unprepared for the embargo of 1973, despite these warnings, and a further fact is that the country now possibly is even more vulnerable to a Mideast oil cut-off.

"For one thing, the government has continued to maintain controls on petroleum, thus failing to dampen demand by allowing market forces to reduce consumption. Prices have remained artificially low, and there has been less incentive to explore, develop and produce more oil domestically.

"Except for Alaskan oil, no new major domestic source of oil production is in sight, and reserves continue to fall. Atlantic offshore exploration continues, but any new major oil discoveries will take six to ten years to bring production.

"To be sure, there have been some efforts at conservation of energy, but a large segment of the American population seems unaware that there is any urgency about the nation's energy situation. Conservation efforts have been accomplished by industry for the most part.

"Some industries have made major gains in energy efficiency. The petroleum refining industry, for example, has cut the energy used to refine a barrel of oil by 16.9 percent since 1972. In all, 3,000 firms in 48 industries are participating in the Department of Energy's voluntary energy conservation program.

"Reflecting the impact of cost, Americans have responded to their higher home-heating bills by installing more insulation, storm windows, weatherstripping and other heat-saving devices.

"But state and local governments, despite fresh grants from the federal government for the purpose, have found the going difficult for their conservation programs.

"For example, in Delaware, Robert Bartly, the state director of Energy Conservation, says that "the level of awareness isn't as high as we would like it to be—there are a great number of people who haven't even done the basic things."

"Even in Massachusetts, which ranks with California and Minnesota as among the more aggressive states in conservaiton, and whose energy plan has been chosen as a national model by the Council of State Governments, a study by the Massachusetts Public Interest Group concluded that energy waste in retail business "has gone from excessive to more excessive in the last two years."

"Though late model automobiles are more energy efficient than the older models, demand for gasoline—the principal petroleum product—is on the upswing, reaching an all-time high of 8,014,000 barrels a day in July, a 7.7 increase over July of 1977. Since the embargo, U.S consumption of motor fuels had been rising at an average yearly rate of about two percent.

"The reason is that there are more automobiles on the road today and mileage driven per car is almost back to pre-embargo levels. Moreover, the 55 mph speed limit is often ignored.

"Efforts to achieve significant savings through conservation has been hindered by a generally prevaient belief that the current glut of oil in the world and the nation's strategic storage program will provide protection against any stoppage of oil imports.

"In 1975, the federal government established a program under which 500 million barrels of crude oil would be stored in underground salt domes, or similar caverns, by the end of 1980.

"But problems have arisen with that plan. Proposals have been made to increase the amount of storage. Originally, the 500 million barrels was thought to be enough for a 90-day supply, but increases in demand have raised the requirement to 750 million barrels. To be on the safe side, some now recommend one billion barrels.

"There is also continuing controversy over location of the storage areas. Suggestions range from the Northeast U.S. to Hawaii. At Louisiana and Texas sites, the storage program is running behind schedule. Less than five percent of the 500 million barrels, an amount that would last only about a week at current rates of consumption, assuming a 3.5-million-barrel-a-day curtailment, is in place.

"Some legislators now are beginning to bridle at the cost of the program. Originally, it was estimated at $8.8 billion. Now the program has doubled and cost estimates have risen to $20 billion.

"Current oil supplies are more than adequate, but some experts feel this is a temporary circumstance. The present supply situation is largely the result of the entry into the oil market of three new major oil suppliers—the United Kingdom, Norway and Alaska. The combined production from these new sources is estimated at three million barrels a day, which has tended to create a temporary world oversupply situation.

"However, the growth of production from these areas is expected to taper off by 1979-80. Says one authority, C. C. Garvin, chairman of the board of Exxon Corp.

"'The current surplus of oil should not be regarded as a basic change in the energy supply-demand situation. It reflects a modest surplus of crude oil and product inventories, created chiefly by lower demand last summer (1977) than a number of suppliers anticipated.

"'There will be periods when availability exceeds current needs, but world demand is continuing to grow at a rate that will require the development of about one Alaskan North Slope every year. We must hold down growth in consumption and raise energy supply capacity if we are to avoid shortfalls," Garvin said.

One Alaskan North Slope every year is a large order, and many geologists and other experts believe it is unlikely that sufficient new domestic reserves will be found to keep pace with rising consumption of oil over the long term. The U.S. and most industrial nations thus will be increasingly dependent on oil supplies from abroad.

"Probably the most powerful man in Middle East oil circles is Sheik Ahmed Zaki Yamani, the oil minister for Saudi Arabia, who contends that the U.S. fear of an Arab embargo is groundless, and that the real danger of any oil stoppage could come from Russia.

"In a recent Canadian television interview, Yamani said: 'I do expect the Russians, who will one day in the future be a net buyer of crude, to come and try to surround that area, dictate their terms and get their share of that oil, and this is exactly what is happening now,' he said.

"He cited that Soviet presence in Ethiopia and SouthOYemen, on oppo site sides of the Red Sea shipping lanes, to support his statement.

"He also said there is a possibility of an inadvertent shutoff. A fire could break out in the oil fields. Should that happen, he said, questions of a 'glut' or of short supply or of balanced supply, would be irrelevent.

"When you have fire beside the oil, there'll be disaster and you (the West) will pay the price, because it won't be just a cutdown in the supply, it will be a serious interruption,' he said.

"Gen. Maxwell D. Taylor, former chairman of the Joint Chiefs of Staff, agrees with Sheik Yamani's assessment of the Russian presence. One of the Soviets' principal areas of pressure are against the United States, General Taylor points out, has been an economic one, such as 'interrupting the flow of Middle East oil to the U.S. and other Western markets.'

"The U.S. is to energy consumption as Saudi Arabia is to production. America consumes about a third of all the oil used in the world every day, and a seventh of all the oil used in the world every day is burned on American roads and highways.

"And what is the U.S. government doing to extricate U.S. citizens from this heavy reliance on imports? A little, but not nearly enough. There is the storage program, which as noted is moving too slowly; the National Energy Program, whose impact on oil supplies, if passed, is questionable, and a contingency gasoline rationing program.

"Some experts have expressed doubts about NEP. An impartial observer, Michael Spicer, a member of the British Parliament and prominent economist, has predicted that soon the U.S. will be importing more than half of its oil, whether Congress passes the energy program or not. He warned that with the next decade, oil

(Continued on 11AA)

"It was not the embargo alone that caused the oil shortage that was to follow in the United States. In an effort to 'share the shortage,' the U.S. government promulgated regulations at the onset of the embargo that effectively prohibited refiners from processing more than a certain amount of crude oil, if such oil were available. The fertilizer and petrochemical industries were hardest hit by those refinery cut-back regulations."

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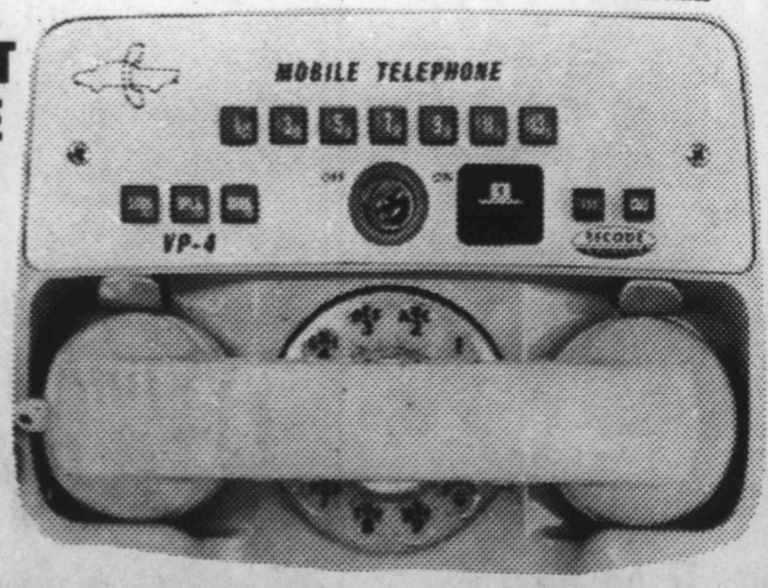

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Maintaining maximum production for the three remaining oil and gas wells at the Lake Charles, La., field of Aminoil USA is the responsibility of Walter Duncan, production foreman, the only fulltime employee at the field. Duncan says production at the field has decreased substantially since the "boom days" of the late 1950s and early 1960s when a single good well easily outproduced the three still flowing today.

Much of nation's crude comes from one-man producing areas

LAKE CHARLES, La.—To many people, the oil industry in this country means bigness. It means huge refineries, mammoth tank farms, and oil fields where pumping units are scattered out to the horizon.

In reality much of the oil production in the United States is on a much smaller scale. A good example is the one-man oil field operated here by Aminoil USA, a subsidiary of R. J. Reynolds Industries, Inc.

The "field" in this case is made up of the three remaining wells of what once was a flourishing oil and gas field. And the "one-man," the only fulltime employee at the field, is Walter Duncan, a production foreman who has been with Aminoil for almost 25 years.

"I can remember in the late '50s and early '60s," he says, "when this field was realy booming. We had some real good wells; the best one produced 10 million cubic feet of natural gas and 500 barrels of oil every 24 hours."

Today, in a typical 24-hour period, the three South Lake Charles wells produce about 120 barrels of oil and 100,000 cubic feet of natural gas. Maintaining even that reduced rate of production while keeping a tight rein on costs is a job that keeps the 62-year-old Duncan on his toes.

Since suffering a heart attack earlier this year, Duncan has had to rely more on the occasional help of outside contractors than he did previously, but he still handles all of the routine maintenance required to keep the field on stream by itself.

Duncan's responsibilities include making regular rounds of the field to monitor production rates of the wells, maintaining lubricant and water levels in the compressor used to co press gas for sales and gas lift, starting up the salt water disposal system as required and taking care of dozens of other routine tasks.

Field once had a well that produced 10 million cubic feet of gasMand 500 barrels of oil every 24 hours.

Located about 17 miles south of downtown Lake Charles, Aminoil's field is in an isolated location amidst the sprawling fields and pastures of a farmer who owns most of the acreage surriounding the company's two-square-mile lease.

It's a lonely post for Duncan, but one that he enjoys. "I like to keep busy," he notes, "and having the responsibility for this field and two others (both operated by contract pumpers) keeps me hopping. Besides," he adds, "I'm the kind of person who can get so caught up in his work that I don't usually notice if there's anyone else around or not."

Compared to other jobs he's had, Duncan says this one could even be considered fairlydensely populated. He recalls one of his first assignments as a pumper for Aminoil in Oklahoma as the most lonesome. With the responsibility for operating eight wells spread over a remote 100-mile area, Duncan says he rarely ever saw anyone except his wife.

In addition to onshore assignments as a pumper and roustabout, Duncan worked for Aminoil as a production foreman for five platforms in the Gulf of Mexico from 1968 to 1975, when he was assigned to the South Lake Charles field.

It was while working offshore that Duncan had his most terrifying experience in his 41 years as an oil industry employee.

"In '72 or '73 we were caught offshore in a storm that the weather forecasters had said was going around us," he remembers. "For some reason, though, it veered back and almost caught us flat-footed."

Duncan and the other employees working on the platform barely had time to secure everything that might be damaged by the high winds when the storm was on them in force. "One other man and I used the crane to get everyone from the platform down to the deck of a workboat," he says.

That left Duncan and his helper with no way to get off of the platform onto the boat except by descending a ladder and swinging out to the vessel on ropes hung below the platform in the event of just such an emergency.

"The seas were running between 20 and 25 feet," Duncan recalls, "and we had to time our swing so that we dropped onto the boat when it was high in the water so that we wouldn't fall too far.

After successfully making it to the boat unharmed, Duncan says the crew was battered for the next 12 hours as the workboat plunged through some waves and climbed others on its way to the coast.

With his recent health problems and advancing age, Duncan says he'd just as soon pass up any more of that kind of excitement and spend the rest of his career with Aminoil at the South Lake Charles field.

I'm thinking about retiring next year," he says, "but I'm going to wait until the first of the year to make up my mind."

For now, Duncan is content to enjoy the busy pace and solitude of his one-man oil field.

Conoco develops diagnosing system

HOUSTON—A unique computer method for disgnosing the energy ailments of a house and prescribing a specific course of treatment has been developed by Continental Oil Co.

Called Project ECHO (Energy Conservation in the Home), the service is being offered to Conoco employees in Texas and those in other states through mailings of questionnaires to employees. In addition, company officials are studying the possibility of making the program available to other companies and organizations.

The Conoco approach is unique because it is tailored to the induvidual home, the local climate and fuel rates, and even estimated charges by local contractors for insulation services and materials, such as storm doors and windows.

Developed by Conoco engineering and computer experts, the program was tested for nearly a year to verify its reliability in various climatic extremes. Results indicated that, on average, energy comsuption could be cut by 25 percent and fuel costs by 15 percent if ECHO recommendations were followed.

Still further savings can be achieved by do-it-yourselfers. "Price quotations on insulation are average for installed services in the employee's community," explained K.R. Gerhart, Conoco's director of internal energty conservation. "By sopping around, he may be able to get cheaper bids or enjoy still further savings if he does the work himself."

The first step is a physical examination of the house. The homeowner measures walls, floors, doors, windows, and depth of insulation and enters these data in a questionnaire. He also rates the condition of weather stripping and caulking around doors and windows, and enters such information as age of house, color of roof, number of occupants, types of energy used and thermostat settings.

Matching this umput with stored data for the employee's locality, the computer performs a technical analysis and prints a report giving specific energy-saving steps that can be taken, such as adding storm windows, weather stripping and insulation. The printout also estimates current cost of each installation and projects what each will save the homeowner in fuels bills over a 10-year period. In addition, it specifies dollar savings possible through adjustments in thermostat settings.

Project ECHO is the latest in a series of Conoco efforts to promote energy conservation. Employees at 20 locations in the 10 states now commute to work in 111 Conoco vans, saving more than 900,000 gallons of gasoline yearly. And the company recently reported that improvements in energy efficiency in its U.S. plants and field operations are saving the energy equivalent of 3.5 million barrels of fuel oil a year.

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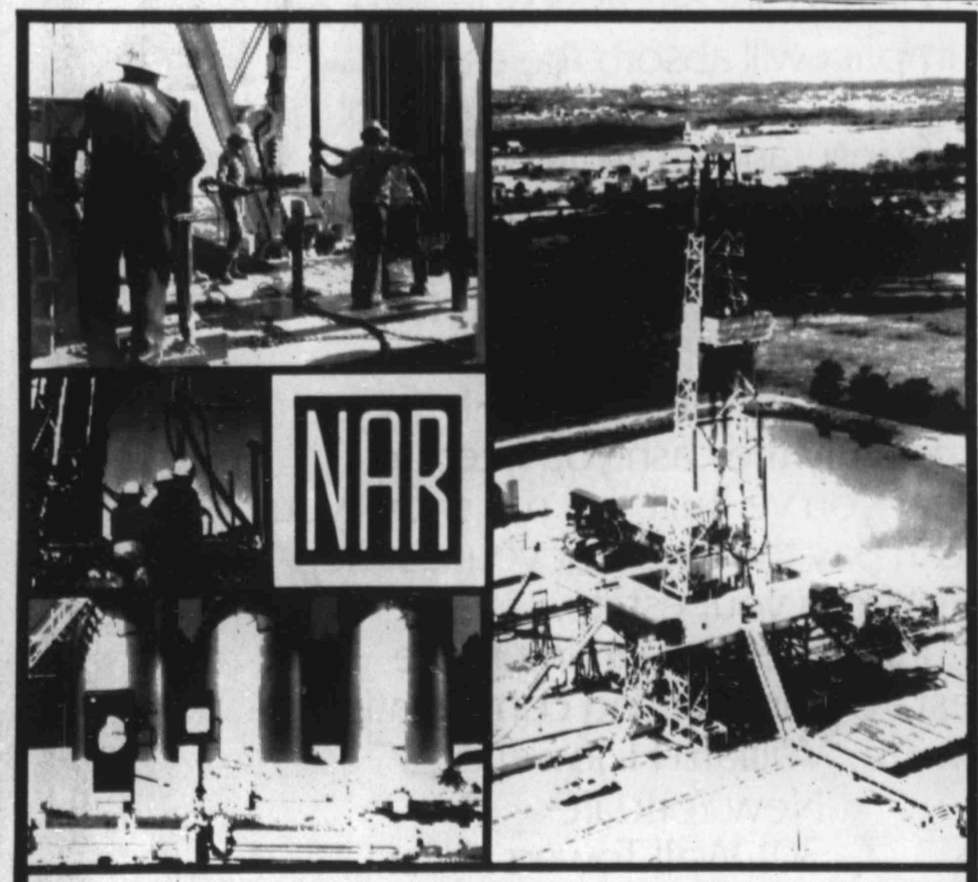

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Economist says seaboard needs exploration

ATLANTIC CITY, N.J.—A leading petroleum industry economist believes offshore exploration is a necessity for the energy-intensive Mid-Atlantic region between Massachusetts and North Carolina.

Dr. Jack W. Wilkinson, chief economist for the Sun Company, Inc., Radnor, pa., said that, as production declines in the rest of the nation, the East Coast will become more and more dependent on petroleum imports.

"Looking ahead to the mid-1980's when energy from the Atlantic Shelf might first be available to the refion, it is virtually certain that the region's total energy requirements will be naterially higher than now, and that these requirements still will be net principally with oil and gas," Dr. Wilkinson testified before Bureau of Land Management hearngs here.

The Bureau is conducting the hearings on proposed oil and gas leasing in the Mid-Atlantic Outer Continntal Shelf.

Dr. Wilkinson noted that the Mid-Atlantic region uses more than one-fifth of the total energy consumed in the nation, and some three-fourths of this energy comes from oil and gas. The remainder comes from coal, nuclear and hydro sources. yet, he added, only 0.3 percent of the oil and 4.3 percent of the gas is produced within the Mid-Atlantic region.

He said that even if there is adequate incentive for major drilling and enhanced recovery programs, it will be several years before enough new resources are developed to offset declining production in the nation's existing oil and gas fields. Hopefully, he added, the region's increasing future requirements will come from its own local resources plus imports.

He cautioned that it is impossible now to be specific about the contribution of the Atlantic offshore deposits because very little is known about the magnitude and character of the hydrocarbons that may be present there.

He recommended a major effort in the Atlantic offshore, largely because of the high cost of imported fuel and its impact on the nation's balance of trade.

"Recent upward trends in the cost of imported oil are likely to continue when world economic activity recovers, though the rate of increase should be more moderate," he said. "Domestically produced oil and gas will also show an upward trend in costs, but very likely will prove to be cheaper than foreign supplies. Moreover, domestic production would prvide a direct benefit to the balance of trade and thus the value of the dollar in international markets."

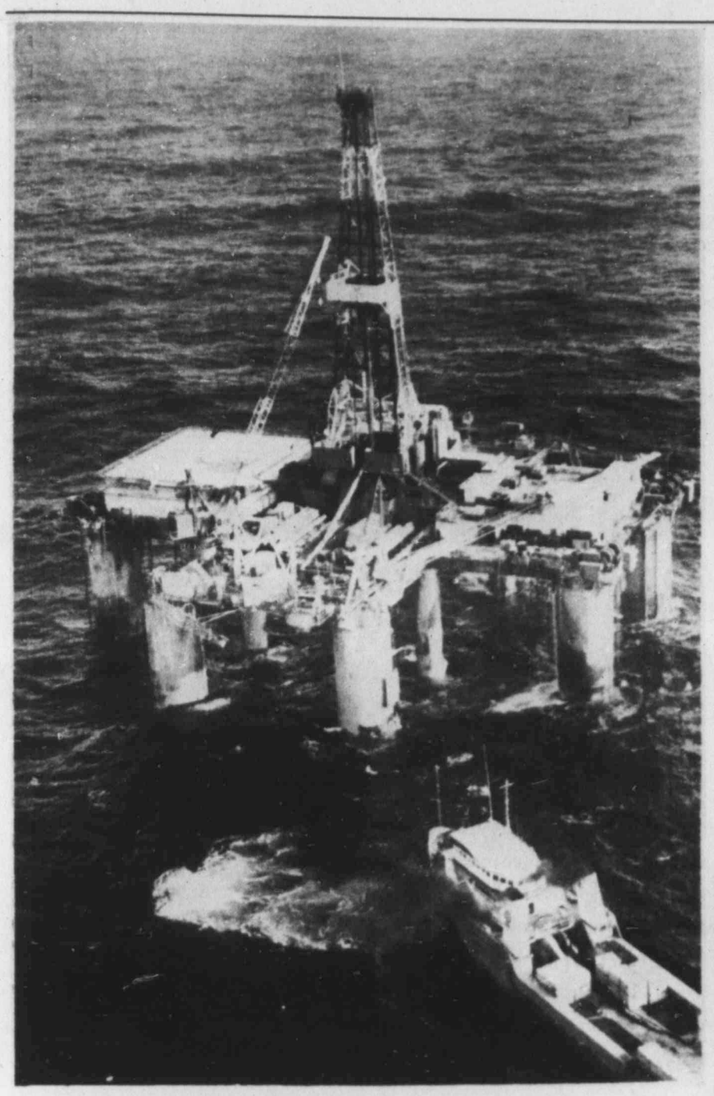
Another point, he said, is that there will be less environmental risk in offshore production than in the transport of imported oil

"Regardless of the method of transport for importd oil, there will be environmental risk," he noted. "Alternatively, there also will be environmental risk in offshore oil production. Experience indicates, however, that the alternative of offshore production -- particularly gas -- offers far less risk than the import alternative."

Dr. Wilkinson also pointed out that national security was a consideration in supporting a strong Atlantic offshore effort.

"Growth in demand for oil in other countries will place a strain on available international supplies by the mid-to-late 1980's," he asserted. "A further complication is the threat that exporting countries will again use their oil as a political weapon.

"The 1973-1974 enbargo taught us that there is a real possibility of repeated supply interruptions to the East Coast of the U.S. Even if such interruptions were to last for relavitely short periods, the effects on homes and industries in the region can be damaging.



The semi-submersible drilling rig Ocean Victory, operated by Texaco, found the first shows of oil and gas production in the Baltimore Canyon off the coast of New Jersey. Texaco first reported shows of natural gas Aug. 14.

Unit increases yield

CHICAGO, ILL.—Amoco Chemicals Corp. announced a new high-density polyethylene production unit utilizing gas phase technology which has increased total capacity to 350 million pounds per year, using only half the energy required by particle form or other gas phase plants.

The new production facility, installed at Amoco Chemicals' Chocolate Bayou complex in Alvin, Tex., is the product of more than six years of research and development of new process and catalyst technology by Amoco Chemicals' scientists at the Amoco Research Center, Naperville, Ill.

The new energy-saving unit will produce a full range of high-density polyethlene grades with properties and precessing characteristics equivalent to those made by the conventional particle form process.

Amoco also produces polyethlene and polypropylene, based on proprietary technology. The company's total thermoplastic polymer capacity is 1.5 billion pounds per year.

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Midlanders share in economy boost

The multi-billion dollar boost that oil and gas industry opertions gave to the Texas economy in 1977 was shared by the citizens of Midland County.

The marketed value of petroleum production in the county has been calculated at $139.7 million in an economic activity profile of the state's top producing counties prepared by the Dallas-based Texas Mid-Continent Oil & Gas Association.

"Texas's oil and gas industry remains the cornerstone of the economy of the state and many of its counties," said the association's president, H. B. "Hank" Harkins of Alice, independent producer and drilling company executive. "It is imperative that the state maintain taxing and regulatory policies which will encourage the growth of this industry."

Midland was one of 201 counties last year which produced petroleum with a market value of $100,000 or more. The county ranked 33rd in the estimated total value of petroleum produced.

The Texas Mid-Continent Oil & Gas Association has computed that approximately $77.2 million came from the production of 8.5 million barrels of crude oil, with approximagtely $62.5 million attributed to an outpout of 69.1 million MCF of natural gas. Payments last year to owners of royalty in Midland County were calculated at $17.5 million,.

While paying local, county and state property taxes, producers in the county also helped support state government through production tax payments estimated at $8.2 million. This included $3.5 million from crude oil output, $4.7 million from natural gas.

According to the Texas Employment Commission, during 1977 8,663 employees worked for the industry in the county. The reported payroll amounted to an estimated $146 million.

The search for additional petroleum continued in Midland County last year. Oil and gas developers spent an estimated $6.1 million in the drilling of 28 wells. Approximately $609,500 of that amount was lost in two dry holes. The 26 wells included 24 oil producers and two gas producers.

Processing also contributed to the county's petroleum-related economy through the operation of five natural gasoline processing plants with a combined daily capacity of 228.1 million cubic feet.

Wood waste from logging no longer wasted

EUGENE, Ore. (AP) — Wood waste from logging operations that once went up in smoke or kept down weeds in someone's garden is now being developed into products that could heat a building or be used for many other purposes.

Researchers around Oregon are tinkering with experimental factories to see if the tons of bark and scrap wood produced every year can be used profitably.

In Albany, Ore., a company working for the federal Department of Energy is using a $3.8-million testing laboratory to squeeze heavy fuel oil out of powdered wood chips.

A 50-year-old Brownsville, Ore., entrepreneur turns out about 125 tons of wood pellets per day, described as more efficient than coal. The pellets, dubbed "Woodex," have heated a hospital for two years.

An old sawmill about 10 miles north of Eugene produces a form of wax from Douglas fir bark that can be used in furniture polish, carbon paper and plastic moldings.

Rudy Gunnerman's Brownsville factory sells Woodex — which looks like rabbit food — to about a dozen institutional customers in the Pacific Northwest. He said pellets costing $1.20 to make provide the heat output of coal costing $2.40 or oil at $3.

His process starts with bark delivered to the plant from local lumber mills. It is ground to the consistency of face powder and then compressed at pressures of more than 30,000 pounds per square inch.

Western State Hospital has used the pellets for heating since 1976. Jim Spangler, hospital plant manager, said the fuel saves about $500 per day in heating costs, reduces maintenance and has eliminated spending $200,000 for anti-pollution equipment.

In Albany, a private company, Bechtel National, Inc., has been turning out thick, black oil from wood chips for nearly a year in a project funded by the federal government. Company officials say the plant is the only one of its kind in the world.

A barrel of oil produced, however, is "about as expensive as turning out a barrel of Chanel No. 5 perfume," according to project manager Tom Lindemuth.

DOE hurrying nature

RICHLAND, Wash.— Coal and petroleum are examples of solar energy which the earth has "processed" and concentrated over millions of years. But the Department of Energy, concerned over the ever-increasing use of these valuable fossil fuels, is looking for ways to hurry the sunshine-plant-useful energy process.

This power-from-plants concept is fueling the development phase of a two-year DOE project at the Pacific Northwest Laboratory. The project will attempt to turn biomass—any part of living plants—into gases for use as fuel or as agents to produce other valuable chemicals.

A key to biomass energy is development of a gasification process to produce selected, relatively pure gas products from plant and wood wastes.

The demonstration biomass unit began operation in August, according to Dr. Lyle K. Mudge, a researcher in Battelle's chemical Technology Department and manager of the project. Battelle Memorial Institute operates the Pacific Northwest Laboratory for DOE.

Researchers will use wood wastes in the 10-foot-tall, two-foot-diameter biomass reactor to produce hydrogen, methane, carbon monoxide, hydrocarbon synthesis gas and ammonia synthesis gas. They hope to increase gas yields and reduce reaction times by adding a catalyst—a chemical which speeds chemical reactions without being changed in the process, Mudge said.

Researchers will use the unit to answer "two fundamentl questions," he said.

"We must find whether biomass can be converted to a particular product in a single-stage reactor just by using the proper catalyst, and we must determine the economics of the preferred process or processes."

Laboratory studies so far have shown that bark from Douglas fir, lodgepole pine, tamarack and cottonwood trees produce the most gases when potash (potassium carbonate) is used as the catalyst. Researchers also found that the gases they were after are best produced between 550 and 650 degrees C (1020-1300 degrees F.)

Potential for biomass energy is enormous. Studies indicate that the logging industry alone produces an estimated 120 million dry tons of wood residues annually. At an average of 17 million British thermal units per dry ton converted at 45 percent efficiency, those logging wastes could produce 400,000 barrels of oil daily.

The gases produced in biomass conversion can be used directly or converted into other products. Hydrocarbon synthesis gas could be converted into liquid fuels and substituted for gasoline. Methane can be used as natural gas is used now—either as a direct fuel or as a feedstock to produce other chemicals. Ammonia synthesis gas could be used as a feedstock to produce fertilizer.

Oil stored for embargo

HACKBERRY, La. (AP) — There are 43 million barrels of imported crude oil now stored in huge caverns hollowed out deep inside some Gulf Coast salt domes — and that's just a drop in the bucket.

The spectacular fire at one storage cavern here was an expensive complication — but not regarded as a serious setback in an unusual project born of world politics.

Before it is over, the Strategic Petroleum Reserve of the federal Department of Energy hopes to have up to one billion barrels of Arabian crude stashed away for emergency use.

It is an oil bank set up to weaken the power of far away sheiks and kings, a savings account to fall back on in the event of another Arab oil embargo like the one that jolted the United States in 1973.

The bank, fed by a parade of tankers from the Persian Gulf, would hold enough crude to offset the loss of imported oil for months.

It's an upside down business — pumping oil out of the ground in one part of the world and pumping it back into the ground in another.

Congress authorized half a billion barrels as a starter, at a cost of $8 billion, and President Carter wants it in the vault by 1980.

Four major banks are being created by the Department of Energy: Hackberry, or West Hackberry as the facility is known locally, Bayou Choctaw, La., Weeks Island, La., and Bryan Mound, Texas.

The great salt domes that are being used as storage vaults are embedded all along the Louisiana. There are about 130 of them, forced up from the depths eons ago by enormous pressures but still entirely underground.

They are roughly circular, ranging in size from a few yards to over a mile across.

Holes can be leached out inside the salt domes with water pressure. But oil does not dissolve salt, so when the hole is filled with oil the cavern is rather like a giant glass bottle.

Crude oil is lighter than brine and sits on top of it. When a barrel of brine is pumped into a cavern it displaces a barrel of oil — or vice versa.

The caverns here were the first to feel the gush of oil, and Hackberry has become the show piece of the project. Originally expected to have a capacity of 74 million barrels, plans now call for 234 million barrels.

A pumping complex at the surface handled input and output, and underground pipelines will connect the banks to major oil terminals.

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Design details of new service stations are checked on models before construction begins. John Heuring, right, Kerr-McGee Refining Co. architect, Oklahoma City, uses a toy car to demonstrate driveway design to A. R. Gockel, vice president of marketing and refining. Modern service stations are designed to be aesthetic assets to the neighborhood in which they are located. Through architectural innovation, oil companies are working to eliminate the "gasoline alley" image of such stations.

Depletion of fossil fuel could destroy American civilization

LUBBOCK—The depletion of the nation's resources of fossil fuels in general and petroleum and natural gas in particular is entirely capable of distroying American civilization as we know it, a Texas Tech University economist warns.

"If we are to save our civilization from self-destruction, then we must plan, finance and implement the largest, the most intensive and the longest duration technological research and development program of all history," says Dr. Lewis E. Hill, economics professor.

"We at Texas Tech have good reason to believe that solar energy is among the good candidates first to supplement the fossil fuels in the near future and then to replace them gradually in the distant future."

Hill presented testimony before the Solar Energy Policy Forum in Dallas recently.

Hill and co-researchers believe that increasing energy costs will make household uses of solar energy economically feasible in the not-too-distant future. They are now technically feasible.

A primary concern is to identify and recommend policy actions to alleviate institutional barriers that threaten to delay the emergence of household use of solar energy beyond the date when it becomes economically feasible.

"We fear that social or cultural inertia will inhibit the acceptance and adoption of solar technology, as it has inhibited the acceptance and adoption of so many new technologies in the past," he said. "We are also concerned that lending institutions may be reluctant to provide loan capital to finance new solar facilities and those to be installed in existing structures.

"Moreover, we fear that labor union work rules and jurisdictional disputes may seriously impede installation of solar equipment in new construction and existing structures."

"We fear that social or cultural inertia will inhibit the acceptance of solar technology."

Hill also testified that public utility rate discrimination against householders who use solar energy as a source of supplementary power might discourage installation of solar facilities.

He also said local building codes and zoning regulations could prove to be significant institutional barriers to the future installation of solar facilities in residential buildings.

Hill and co-researchers recommended at the federal level that income tax credits be used to subsidize installation and use of solar facilities, that loans to finance solar installations be guaranteed and that labor union work rules and jusisdictional disputes not be permitted to inhibit such installations.

At the state level they recommended prohibition of public utility rate discrimination against households using solar energy, that such installations be exempt from the general property tax base and that building codess and zoning regulations be amended where necessary to encourage installation of solar equipment and facilities.

Two other general recommendations were made by Hill. He favors pricing fossil fuels at realistic world market levels and technological research and development program funding at the highest possible level.

Such a pricing policy, he said, would not only encourage conservation and discourage waste of fossil fuels, but it would also provide maximum incentive for conversion from petroleum and natural gas to solar power and other alternative sources.

"We are completely conviced that energy research and development programs must be pursued more diligently and financed more abundantly than the space exploration program of the 1960's. The very survival of contemporary industrial civilization will depend upon research and development of new energy technologies and resources."

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Training program started

AUSTIN—The Association of Oilwell Servicing Contractors (AOSC) has joined with the Petroleum Extension Service of the University of Texas to develop a training program for oilwell servicing crews and supervisory personnel.

In an effort to lower accident rates, offset manpower shortages and reduce costs, the Training Task Group of AOSC" Manpower and Management Development Committee met in Austin in September to discuss solutions to the lack of trained personnel in the oilwell servicing industry.

According to Manpower and Management Development Committee chairman Fred D. George of Charles J. George, Inc., of Odessa, the lack of trained personnel is the most serious problem facing the oilwell servicing industry.

"An untrained employee is more prone to injure himself and his fellow employees. Increasing costs make it very important that our crews be trained to perform their jobs efficiently and safely," George said.

The Training Task Group has chosen the Petroleum Extension Service of the University of Texas (Petex) to develop the training program with the advice and cooperation of a special steering committee of oilwell servicing contractors.

According to Petex director Curtis Kruse, the training program will be started at the Petex facility in Odessa, and will later be expanded to other oil producing areas in the U.S.

"We still have a lot of work ahead of us," Sam Pease, Welsh Drilling and Service, Inc., of Houston said, "but we believe we will soon have a comprehensive training program which will benefit well servicing crews in all geographical areas." Pease is chairman of the AOSC Training Subcommittee.

"I am extremely pleased that AOSC has joined with Petex to develop a program to solve our serious training problems," Frank Sandel, with Globe Well Service in Big Lake, president of AOSC , said. "We have taken a giant step for our industry."

AOSC is a national organization of independent businessmen who operate more than 2,500 workover and well servicing rigs and employ in excess of 20,000 people. Members also include manufacturers of well servicing rigs and equipment and insurance companies, financial institutions and other companies offering special services to the oilwell servicing industry.

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Enhanced recovery one of U.S.'s big problems

TULSA, Okla.—The future of enhanced recover—techniques for recovering oil that can't be produced via conventional means or waterflooding—is one of the biggest uncertainties in the U.S. petroleum industry.

Enhanced-recovery costs are monstrous, and risks are high. Compounding the problem are the long lead times and commensurate expenditures required in nearly every endhanced-recovery project as producers try to choose the most efficient recovery method for each reservoir.

But industry is moving as fast as technology and money allow in seeking ways to make enhanced recovery work, the Oil & Gas Journal reports.

The potential reward largely is a function of crude-oil prices and project costs. According to studies by the National Petroleum Council and the U.S. Office of Technology Assessment, potential enhanced-recovery production ranges from 1 billion to 3 billion barres at a price of $5 a barrel, and from 25 billion to 42 billion barrels at a price of $22 a barrel, both in 1976 dollars.

Present enhanced-recovery production is limited. According to a Journal survey last spring, enhanced oil production averged 373,000 barrels a day from 196 projects. Total U.S. production is 8.6 million barrels a day.

An estimated 260,000 barrels a day of production in the Journal survey came from 115 thermal-recovery projects, which include combustion, steam-soak and steam-drive floods.

But most producers believe the future of enhanced recovery depends on development of chemical and gas methods, the Journal says. And most agree it will be at least the late 1980s before th country sees significant additional crude production from enhanced-recovery methods.

Cost projections show why, the Journal says. One major oil firm estimates that the higher production rates projected in most studies would require about 160,000 new wells between 1980 and 1985 at a cost of $26 billion. That doesn't include well servicing, pipelines and construction of other facilities.

Another study estimates that development of 30.5 billion barrels of enhanced oil would require $150 billion of capital, mostly for chemicals and other injected materials.

The Department of Energy is helping prove out methods. During the first quarter of 1978, the department was aiding through its cost-sharing program 22 projects, including miceller-polymer and carbon dioxide floods, improved water floods and thermal recovery,

Industry was funding $192.2 million of the costs of those projects, the department $65.6 million.

Producers say their biggest need is higher prices for the crude they produce. New Economic Regulatory Administration rules freeing incremental enhanced production from price controls will do little or nothing to increase enhanced-recovery projects, they say.

One company characterizes the administration's incentives as "too small and too late."

Industry sources tell the Journal they need decontrol of the price of all oil from an enhanced-recovery project, not just the oil produced beyond what would have been produced through conventional means.

One company told a Senate hearing on enhanced-recovery incentives in July that "under current domestic oil-price policy, except for a small amount of thermal oil, essentially no enhanced-recovery oil will ever be produced."

Less of family income will go for gas bills in 1985 than 1960

WASHINGTON, D.C.—The average American family will spend a smaller share of its income on natural gas utility bills in 1985 than it did in 1960 or in 1977, according to an industry study.

The American Gas Associationprojects the averge American family's share of disposable income spent on natural gas for househeating will decline from 1.5 percent in 1960 to 1.4 percent in 1985, and that gas will continue to maintain a significant cost advantage over oil and electricity.

The AGA analysis, "Consumer Impact of the National Energy Act Natural Gas Pricing Compromise," shows 1.5 percent of disposable family income (total personal income minus personal taxes divided by total families) is spent for gas househeating today.

AGA President George H. Lawrence said, "Gas has historically been cheaper than electricity or oil, and is projected to remain less expensive than either electricty or oil for the foreseeable future.

"While prices for other fuels have and are expected to increase at a somewhat slower rate than gas, gas will continue to be the most economical form of energy for the residential end-user because of its current sizable cost advantage," Lawrence said.

"By 1985, the share of disposable family income spent for househeating by electric customers will continue to be nearly three times that of gas customers (4.0 percent vs. 1.4 percent)," he added.

American Gas Association President George H. Lawrence says "Gas has historically been cheaper than electricty or oil.

"Similarly, by 1985, oil customers are expected to pay about 40 percent more than gas customers for househeating (2.0 percent vs. 1.4 percent of disposable family income)," Lawrence continued.

He said an analysis of post-1970 price changes in "real" terms (i.e., excluding inflation) reveals that gas prices did not really begin to rise until 1974, the year following the oil embargo.

During the 1960s, Lawrence explained, gas prices actually declined in real terms. Between 1970 and 1973, real gas prices remained relatively constant, rising at the same rate as the Consumer Price Index (4.8 percent a year), Lawrence said.

But between 1973 and 1977, gas prices increased somewhat rapidly in real terms—growing at 17 percent a year, while the CPI grew at only 9.1 percent a year. Over the long-term (1960-1977), therefore, gas price increases have been only slightly higher than the general increase in prices (5.1 percent a year for gas vs. 4.3 percent a year for CPI.)

"In a sense," Lawrence explained, "these later years (1973-1977) can be regarded as a 'catch-up' phase for gas with respect to the historic (1960-1970) real price declines.

"When viewed in terms of disposable family income and traditional family budgeted expenditures," Lawrence said, "recent increases in gas prices have not had a significant adverse economic impact on the consumer.

"Future gas price increases consistent with phased deregulation will result in little change in the share of the family budget expended on gas househeating, indicating the price of gas will continue to be a relatively small factor in consumer purchasing patterns," Lawrence said.

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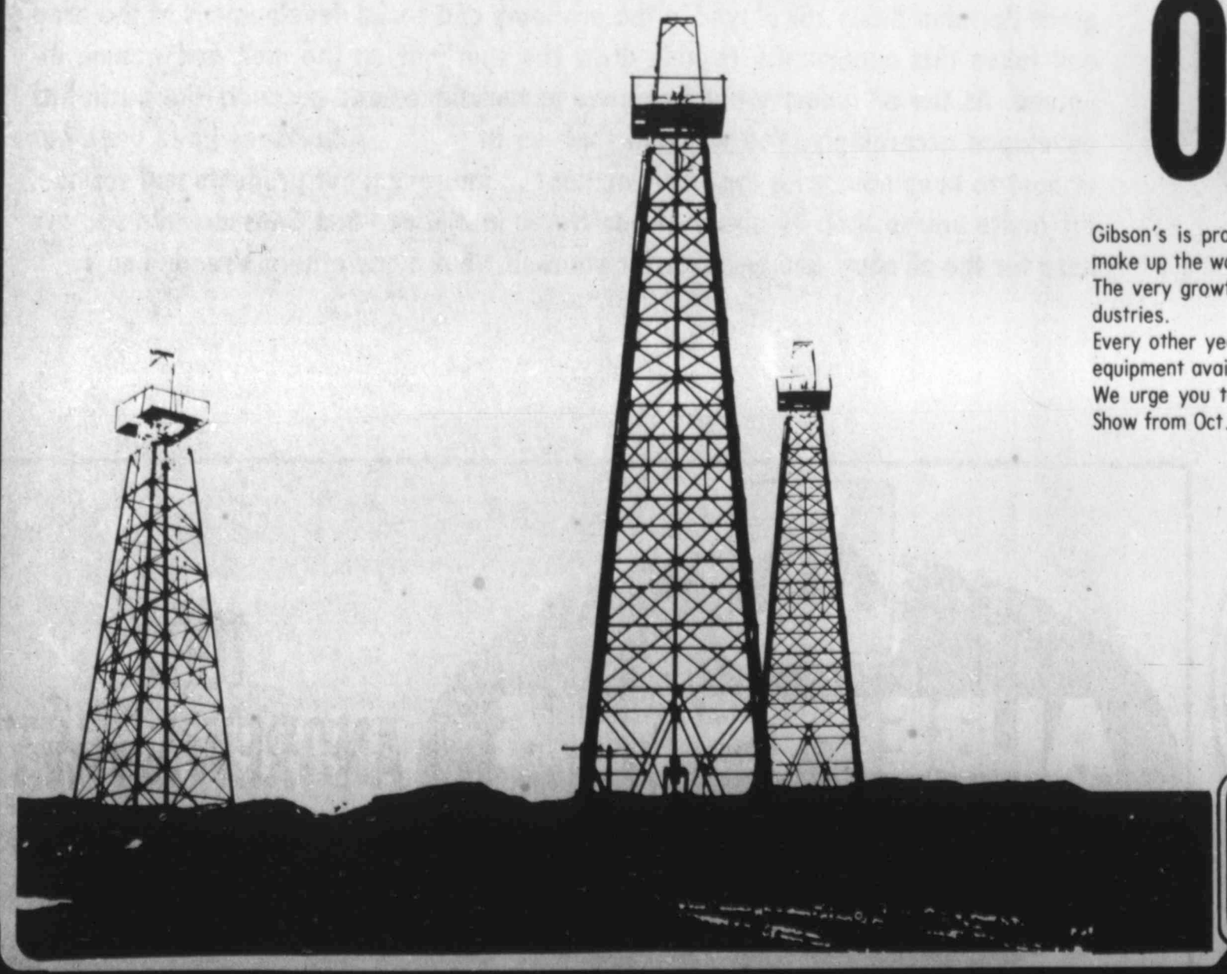

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Petroleum firms have great research capacity

WASHINGTON, D.C.—Petroleum companiess have the greatest energy research capacity and experience of any segment of the economy. In fact, they provide nearly one-third of all U.S. energy research and development spending. And some of the most exciting developments are in the new energy sources. The companies are working on things like solar cells, solar thermal conversion, geothermal energy, alcohol fuels, hydrogen production, synthetic oil and gas, fuel cells, nuclear fusion, and even trash-to-energy conversion.

(The above comments and the article below are taken from a recent talk by Charles J. DiBona, Executive Vice President of the American Petroleum Institute.)

Three fuels-oil, natural gas, and coal-supply more than 93 percent of our energy. In fact, oil use is actually increasing because other sources cannot keep up with rising demand.

We are making significant progress in energy conservation and this trend will continue. But we are not making enough progress in energy production. Government studies indicate that we can find enough oil and gas to continue current production rates for 50 years or more. However, forecasters project that oil import will reach 12.5 million barrels per day by 1990 - some 50 percent higher than last year's level.

The oil companies are exploring farther, drilling deeper, and doing everything possible-withing the constraints set by the government-to increase domestic supplies.

But what about the energy sources that eventually will have to replace oil and gas? Advocates of the new energy sources, including many petroleum companies, are doing a lot of work to help bring alternate forces onstream as soon as possible. At least 65 petroleum companies are exploring for, researching, or developing new energy sources, even though they are sometimes criticized for these efforts.

Fuels from Coal

Synthetic oil and gas will come mainly from three sources: One is oil shale-an oil bearing rock. Another is tar sands which are natural sand deposits, saturated with tar or oil. The third is coal.

Coal, of course, is not a new fuel. In fact, turning it into gas or liquid is not new, either. But we need better processes for successful commercial operation. These processes will remove the sulfur and produce clean-burning synthetic oil and gas. And they can do it for a long time, because coal reserves in our country are measured in hundreds of years, no decades. In fact, the U.S. has almost one-third of the world's recoverable coal reserves.

At least 16 petroleum companies are involved in research and development of new or better ways to use coal, including liquifaction and gasification. The work has been going on for more than 10 years, often as joint efforts of government and private companies. Substantial progress has been made on all fronts, from the laboratory to operating pilot plants.

Oil Chale and Tar Sands

The oil locked in U.S. shale deposits is more than Saudi Arabia's total oil reserves and 20 times more than our U.S. oil reserves. Most of the shale lies in the Green River area of Colorado, Utah, and Wyoming.

Recovering oil from a rock represents large-size technical and environmental problems. However, many companies are committed to their solution. At least 30 petroleum companies have invested in studies, pilot tests, exploration, or shale leases from the government.

Synthetics from U.S. tar sands have a smaller potential. The largest deposits are found in Utah. Only a small portion can be surface mined, and the rest will require new, more difficult methods. However, tar sand depostis in Canada equal the oil reserves of the entire free world, so development there will be much greater than in this country.

Geothermal Energy

At least 30 petroleum companies are exploring lands with geothermal potential or are developing the methodsTto harness the energy.

Natural steam fields, such as The Geysers in Northern California, are rare. More often a field contains steam and hot water, water alone, or even hot, dry rocks.

Union Oil, with Public Service Comapany of New Mexico, will build the nation's first steam and hot water geothernal plant in north central New Mexico. The plant sould produce electricity by 1982.

General Crude Oil Company is drilling the world's first hot water and natural gas well near Houston, Texas.

Standard of California is exploring geothermal prospects in eight western states and is planning a southern California project that will ultimately serve 400,000 people.

Alcohol Fuels

Petroleum companies have a lot of experience in making acohols from oil for chemical plant feedstocks, and some of them areRapplying this know how to potential fuel uses.

Gulf has worked on an improved method of making alcohol from waste cellulose, such as sawdust, bark, corn cobs, or pulp and paper mill effluent.

Several companies are working on coal gasification and liquefaction processes that could yield alcohols.

Other companies have studied the use of alcohols as octane-boosters in gasoline. Atlantic Richfield recently announced some promising results.

Solar Energy

At last twelve petroleum companies are involved in solar energy. Some are working on thermal conversion — capturing the sun's heat. Some are working to bring down the costs of solar cells, which convert sunlight to electricity. Others have already entered the several solar markets that exist today.

Solar heating with thermal collectors ca exonomically replace electricity in many parts of the country. Most of the systems in use provide a portion of a home's hot water. A more complete system to provide air conditioning and half of the heat and hot water for a three-bedroom home costs about $20,000.

You also could buy a solar cell electric system for the same home, but it would cost about $100,000. No one has yet made that invesstment. However, there are markets for solar cells today. Ironically, petroleum companies provide one of those markets. In remote locations along pipeliness, at gas wells, or on unmanned offshore platforms, solar cells ca be cheaper than running long power lines or supplying fuel by helicopter.

Petroleum companies are working to bring down the costs in all of these solar applications.

It is obvious that this country must develop new energy sources if we are to control our own energy future. The best researech and technical expertise are needed to help solve the economic, scientific, environmental and legal problems which each of the new energy sources faces.

To take us smoothly through the end of this century and beyond, three things are necessary:

—The government must develop a sound energy policy that encourages today's fuels, as well as tomorrow's;

—Private companies must continue their commitment to the development of new sources efficiently and humanely;

—The political process should not be used to prevent any competitor and contributor from helping to solve our energy problem.

API fears oil embargo

(Continued from Page 4AA)

import payments may soar from $45 billion in 1977 to $92 billion, and seriously erode the value of the dollar.

"If a Mideast oil curtailment should occur, gasoline rationing could be necessary. Under a plan put forward by the Carter Administration, ration checks would be issued which would be based on vehicle registration. Coupons could be bought and sold on the open market. The President would determine whether the plan should be put into effect in a major emergency, but Congress would be able to veto his decision. If Congress approves, the rationing program could go into effect within 45 days.

"The oil industry itself is working to reduce our dependence on imported oil. It is doing its best to increase domestic production. Exploratory drilling and capital expansion continue at a high rate. Exploratory drilling is up 30 pecent since the 1973 embargo, and capital expenditure has more than doubles.

"However, these efforts are still falling short of what needs to be done to substantially reduce our dependence on oil imports.

To reach this goal, there must be a reduction in the number of complex laws and regulations which control all aspects of oil operations from exploration through marketing. At the same time, it is imperative that the petroleum industry be given greater access to areas where domestic oil and gas supplies are believed to exist.

Libya becoming more important to nation

WASHINGTON—The Arab nation of Libya has become an increasingly important source of oil for the United States, an American Petroleum Institute report on "Estimated Total U.S. Petroleum Imports from Ten Leading Countries" reveals.

The report is based on data gathered by U.S. government agencies and covers the period January-September 1977. Comparable data for the January-September periods of 1976-73 are also included.

According to the API report, Libya is now the nation's fourth leading supplier of oil, accounting for 9.4 percent of total U.S. petroleum imports. Five years ago, Libya was our sixth leading supplier, accounting for 5.5 percent of our total petroleum imports.

Among the other leading suppliers, those whose share of oil exports to the United States have increased since 1973, are Saudi Arabia, Nigeria, Iran, Indonesia, Algeria and United Arab Emirates. Those nations whose percentage of oil exports to the United States have declined since 1973 are Venezuela, Canada and Trinidad.

Brookhaven laboratory gets assessment grant

CHICAGO, Ill.—The Department of Energy's Brookhaven National Laboratory has awarded a $144,000, one-year contract to the Institute of Gas Technology to make a techical and economic assessment of the underground storage of hydrogen.

In other studies being carried out at IGT and elsewhere, hydrogen is being investigated as an alternative medium for the delivery of energy.

Subcontractor to IGT in the storage contract is the consultant firm, Dames & Moore. Four gas industry participants will lend expertise based on their experience in underground storage of natural gas: Texas Gas Transmission Corp., Northern Illinois Gas Co., Transco Energy Co., and Southern California Gas Co.

Dr. Derek P. Gregory, IGT assistant vice president, noted that hydrogen might be used to store energy, produced from nuclear or solar sources, until it is needed.

Storage on an annual cycle, to meet the seasonal heating demands of the residential market, might be accomplished by using hydrogen because it is more economic than are other methods in current practice or under development, such as compressed hydrogen in cylinder bottles, metal hydrides, cryogenic storage of liquid hydrogen, or storage as a decomposable chemical.

The objectives of this program are to:

1. Establish the engineering feasibility of using geologic or engineered underground sites for hydrogen storage.
2. Identify the research and development needs related to both cost reduction and safety problems.
3. Identify possible sites where hydrogen may be stored.
4. Develop realistic cost estimates for underground hydrogen storage facilities.

IGT brings to the program its extensive experience in hydrogen prodction and handling and general gas engineering, Gregory noted. Dames & Moore will provide support in the areas of geology, mining, and environmental assessment.

IGT has been studying various economic and technological aspects of a hydrogen system for transporting energy for some years, Gregory said.

In one program chemical reactions are being sought that would be suitable for producing hydrogen by thermochemically splitting water. Heat for the process could be derived from a high-temperature source such as a nuclear reactor or a solar concentrator.

In another project, the suitability of existing natural gas distribution systems for hydrogen service is being studied.

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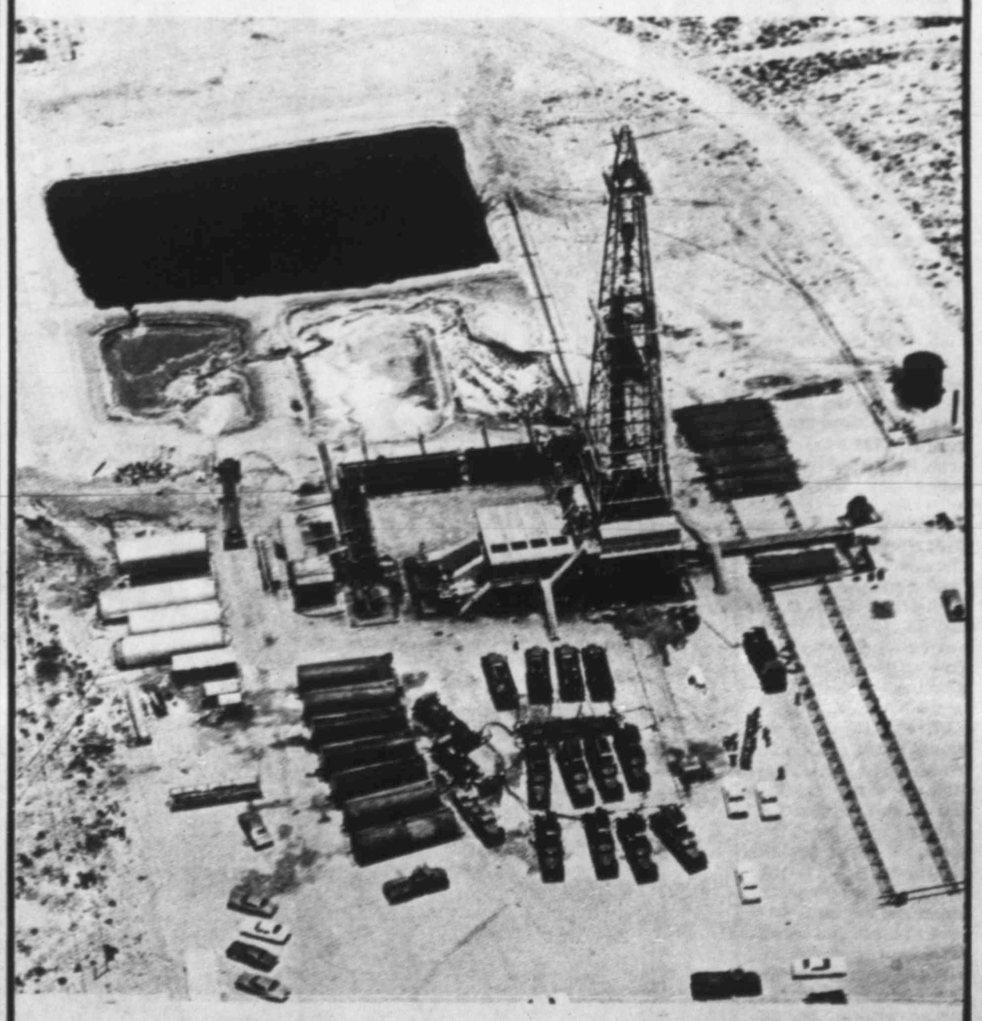

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New Mexico plays vital role in energy effort

SANTA FE, N. M.-New Mexico is an important producer of oil and gas in the United States. Although not a super-petroleum state like Texas, Louisiana, or Alaska, it fills a vital place in the U.S. energy effort.

In 1977 New Mexico was fourth in the country in gas production and seventh in oil.

The top two natural gas producers—Louisiana and Texas—provide 71 percent of the gas pumped out of the ground last year in the U.S. Oklahoma, New Mexico and Kansas supplied 28 percent. Other states made up the remaining 11 percent.

Texas, Louisiana, and California supplied almost 68 percent of the oil produced in the country that year. Another 20 percent came from five states — Alaska, Oklamona, Wyoming, New Mexico and Kansas. The remaining 12 percent came from other states.

The pertroleum industry is important to New Mexico in many ways. It is a mineral rich state and petroleum accounts from 69 percent of the total value of its mineral production.

The fifth largest state in area, New Mexico contains more than 77.7 million acres. About 38 percent of this land has been proved productive of oil and/or gas, or is leased for possible future exploration.

As one of New Mexico's largest non-governmental employers, the petroleum industry provided jobs for more than 20,236 men and women in 1977. That number included 9,185 people employed in the production of crude oil and natural gas.

Although New Mexico has shared in the recent national decline in oil-gas production, it has retained its place among the country's top producers for many years.

The 87,222,646 barrels of oil produced in 1977 came from the following counties:

Lea-55,105,577; Eddy-23,498,167; San Juan-3,107,352; Chaves-1,428,794; Rio Arriba-1,350,726; Roosevelt-1,263,473; McKinley-942,494; Sanddoval-526,063.

Gas produced for the state totaled 1,184,318,260 MCF (thousand cubic feet). By county:

Lea-401,601,304; San Juan-363,605,242; Eddy-234,761,040; Rio Arriba-166,526,112; Chaves-10,525,556; Roosevelt-5,381,937; Sandoval-1,753,859; Mora-28,385.

TWO MAJOR BASINS

The state's petroleum comes primarily from the Permian basin in the southeast (Lea, Eddy, Chaves, and Roosevelt counties) and the San Juan basin in the northwest (San Juan, Rio Arriba, McKinley, and Sandoval counties).

Petroleum accounts for 69 percent of total value of New Mexico mineral production.

The Permian basing of Southeast New Mexico and West Texas has long been one of the nation's major oil-producing areas. Ninety-three percent of the state's oil production came from this province in 1977.

One hope for slowing the decline in production rate in the state and improving the situation with recoverable reserves is through improving enhanced-recovery techniques. That is finding ways to force the oil out of the older pools.

It is estimated that primary recovery (by natural flow) from a large number of pools in Southeast New Mexico has not exceeded 15 percent (leaving 85 percent of the oil still in the ground). In areas where natural water drive is present, recoveries have run as high as 40 percent.

Waterflood operations have been in effect in many of the older pools for a number of years and some have responded very well. In this procedure, water is injected into an oil reservior to wash the oil out of the reservior rock and into the bore of a producing well.

It is believed that an additional 200 million barrels of oil mau be added to recoverable reserves in the area from enhanced-recovery methods during the next few years.

Four of the 100 largest oil fields in the U.S. are in southeast New Mexico, according to the American Petroleum Institute. The Vacuum field, discovered in 1929, has produced 300.6 million barrels and is believed to have 65.4 million barrels left. The Empire pool, discovered in 1924, has produced 159.2 million barrels and is believed to have reserves totaling 61.9 million.

The Eunice pool, discovered in 1929, has produced 327.6 million barrels with 52 million remaining. The famous Hobbs field, discovered 50 years ago in 1928, has produced 239.8 million barrels and has reserves of 43.3 million.

About 96 percent of New Mexico's known oil reserves are in the Permian basn. This area produced 53 percent of the state's natural gas last year.

MOSTLY GAS

The northwest corner of New Mexico is primarily a gas-producing province, accounting for about 47 percent of the gas and 7 percent of the oil recovered in the state in 1977. However, the state's first commercially successful oil well was drilled at the Hogback Dakota pool in San Juan County in 1922.

Gas development did not begin here on a large scale unitl 1951, when the first major market was developed in California.

Of the 1,255 oil and gas pools in New Mexico, 1,084 are in the southeast and 171 are in the northwest. The 32,231 active wells include 20,515 in the southeast and 11,716 in the northwest.

Since 1935 New Mexico pools have produced 3.3 billion barrels of oil and 25 trillion cubic feet of gas.

Impacts studied

ALBUQUERQUE, N. M.—The ecological impacts of the current trend toward greater use of coal as an energy source for power production are discussed in a new 216-page report by the Interior Department's U.S. Fish and Wildlife Service.

The technical report, "Impacts of Coal-Fired Power Plants on Fish, Wildlife, and their Habitats," covers the environmental impacts associated with the operation of a power facility from the time at which coal is delivered to the site through the final disposal of waste products.

The rapid rise in oil prices coupled with the national emphasis on future energy planning and development has made coal one of the cheapest and most abundant sources of energy for electric power production.

The Fish and Wildlife Service's National Power Plant Tean contracted for the report because this increase in the use of coal can harm fish and wildlife through the discharge of waste materials from coal-fired power plants.

The report contains current information on the potential impacts on plant and animal communities and their habitats from the operation of coal-fired electric generating facilities and steps that can be taken to minimize these impacts. Also discussed are the impacts associated with oil and gas-fired stations that have been converted to coal.

Included in the report is an outline and discussion of research needed to more effectively predict and minimize impacts along with extensive reference listings at the end of each major section of the report.

"Impacts of Coal-Fired Power Plants on Fish, Wildlife, and their Habitats" is the first of two major publications prepared by the Department of Energy's Argonne National Laboratory under an interagency agreement between the Fish and Wildlife Service and the Department of Energy. The other publication is a field manual entitled "A Biologists' Manual for the Evaluation of Impacts of Coal-Fired Power Plants on Fish, Wildlife and their Habitats."

The National Power Plant Team, headquartered in Ann Arbor, Mich., is part of the Fish and Wildlife Service's Biological Services Program. It provides the programs's scientific and technical expertise regarding the impacts of power plants and energy development on fish and wildlife resources and arranges for contract studies with states, universities and consulting firms.

"Impacts of Coal-Fired Power Plants on Fish, Wildlife, and their Habitats" can be purchased for $4.50 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402, stock number 024-010-00458-4.

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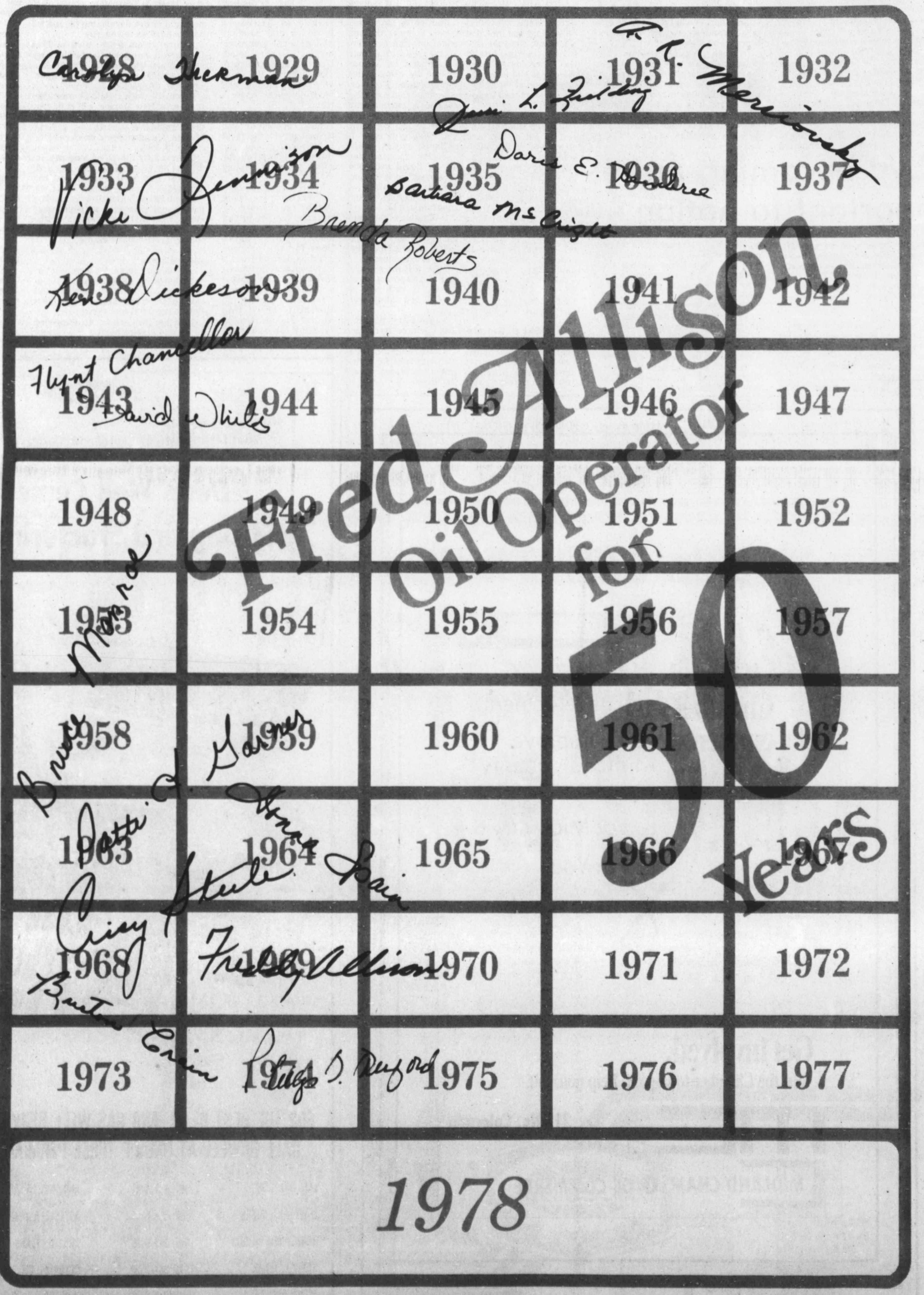

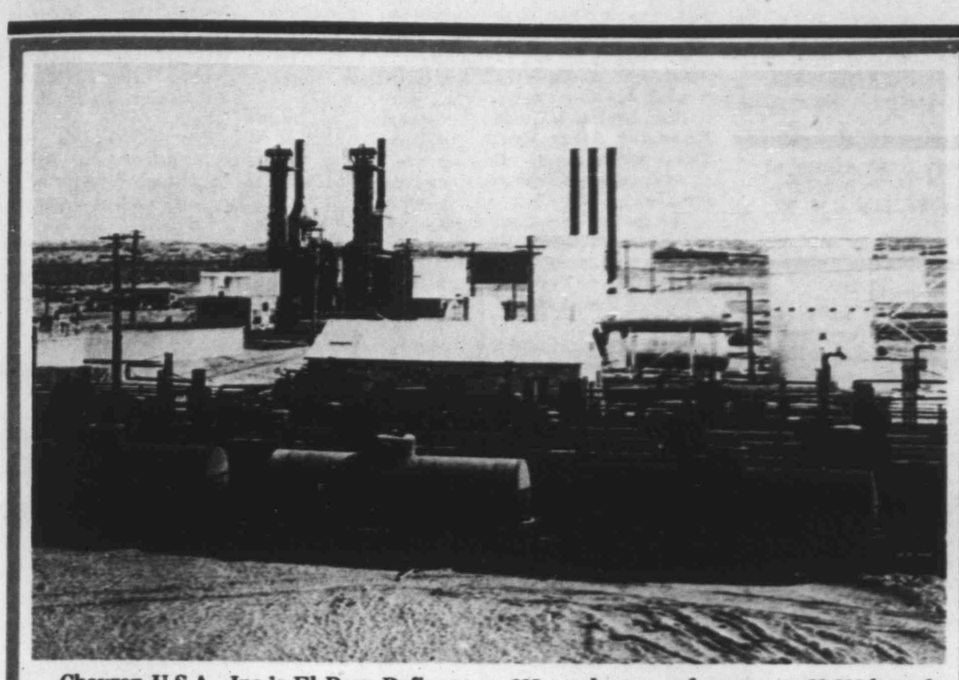

Chevron U.S.A., Inc.'s El Paso Refinery was a small operation when it opened for business as the Pasotex Petroleum Co. in 1928. It employed 65 people and processed 5,000 barrels of crude oil a day. It now has 222 employees and processes 80,000 barrels of crude daily. The 50th anniversary celebration was held in December, with employees and retired employees and their families attending.

Society honors six men at 53rd technical conference in Houston

HOUSTON-Six men were honored earlier this month by the Society of Petroleum Engineers of AIME at the organization's 53rd Annual Technical Conference and Exhibition in Houston.

D. J. Hammerlindl, a reservoir engineer with Atlantic Richfield Co. in Dallas received the Cedric K. Ferguson Medal as the author of the best technical paper by an author under 33 that the society published in 1977.

"Movement, Forces, and Stresses Associated With Combination Tubing Strings Sealed in Packer" appeared in the February issue of the society's Journal of Petroleum Technology.

Joseph G. Richardson, senior research advisor with Exxon Production Co. in Houston, received the DeGolyer Distinguished Service Medal. The citation accompanying Richardson's medal reads, "In recognition of his long and distinguished service to the society and the institute; his diligent pursuit of the effective application of geologic and engineering principles to hydrocarbon recovery; his tireless dedication to the development of younger engineers and geologists, and the integrity he exemplifies throughout his professional and community life.

C. W. Arnold, senior research advisor with Exxon Production Research Co. in Houston, was given the Distinguished Service Award. He was honored "for his broad range of service to the society and its members as board member, Distinguished Lecturer and chairman of committees, nurturing the professional growth and status of individual engineers."

H. Arthur Nedom, current past president of AIME, received the Distinguished Service Award "for enthusiastic and devoted leadership, for high standards of continuing service to SPE and AIME, which serve as a challenge and a guide to others, and especially for his administrative contributions as chairman of numerous committees, board member and president of the society and institute."

Nedom, who is president and managing director of Weeks Petroleum Corp. in Westport, Conn., was 1967 SPE president.

John M. Campbell was presented the John Franklin Carll Award "for his dedicated service to petroleum education and the petroleum industry, through his leadership in education and technology, in the training of young engineers and upgrading the standards of practicing engineers."

AGA releases report on gas

WASHINGTON, D.C.—The executive summary of a recent Aspen Institute work shop on the future role of gas energy has been released by the American Gas Association.

The workshop was conducted under the auspices of the Aspen Institute for Humanistic Studies and co-sponsored by AGA and the Gas Research Institute considered all aspects of federal energy research and development priorities and gas energy option.

New York University President John C. Sawhill, chairman of the Aspen Institute's Committee on Energy, said the workshop summary reflected a consensus of the 50 distinguished scientists and academic and energy experts that existing sources of gas energy are potentially plentiful and should continue to play a significant part in America's energy mix.

Sawhill and workshop session leaders made a detailed presentation to Vice President Mondale at the White House Sept. 5.

Sawhill said the summary, "Research & Development and the Gas Energy Option," was made available to members of Congress and key government and industry executives in order to assure that key decisions affecting U.S. energy policy recognized the fact that domestic natural gas production and the development of supplemental gas energy projects must play a major role in energy planning.

> Even if world supplies of oil and gas are adequate to avoid shortages and higher prices in the 1980s and 1990s, it is in the national interest to minimize imports.

Among the major conclusions of the week-long workshop were:

1. Even if world supplies of oil and gas are adequate to avoid severe shortages and sharply higher imported energy prices in the 1980s and 1990s, it is in the U.S. national interest to minimize energy imports.

2. U.S. resources of conventional natural gas are large, constituting 30 to 60 times current annual production levels. Also pricing of new natural gas at competitive fuel prices will very likely result in increased conservation by U.S. consumers.

3. Conventional sources of gas energy, because they are principally composed of clean-burning methane, generally represent the most environmentally acceptable of all major domestic energy sources that could be available for use in the U.S. in significant quantities in this century. Unconventional gas may also be relatively attractive with respect to the environment, though problems are often greater than for conventional gas.

4. Unconventional and supplemental sources of gas, such as coal gasification, tight gas formations, and other unconventional methane sources, hold significant promise for meeting future national energy needs. Research, development and demonstration should be vigorously pursued to determine their real cost and resolve remaining technical, environmental, institutional and other issues so that they may be available for commercial use.

5. Inexhaustible sources of methane and/or hydrogen from solar and nuclear energy sources represent important potential long-term U.S. options for maintaining and increasing the production and delivery of gas.

6. Gas-related technologies that improve the efficiency of energy use rank among the most cost effective conservation options.

7. Although some of the technologies needed to supply and conserve gas are available today, research should be aggressively pursued to define production cost and supply potential of unconventional and supplemental gas sources, to improve existing technologies and to stimulate gas conservation.

8. Environmentally acceptable gas supply and conservation technologies that will sustain or expand gas supplies will be brought to commercial use chiefly when price and other regulatory policies permit.

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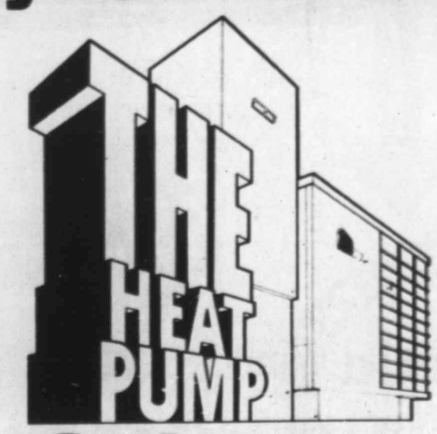

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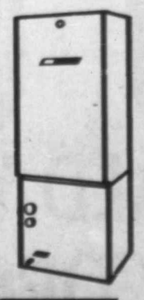

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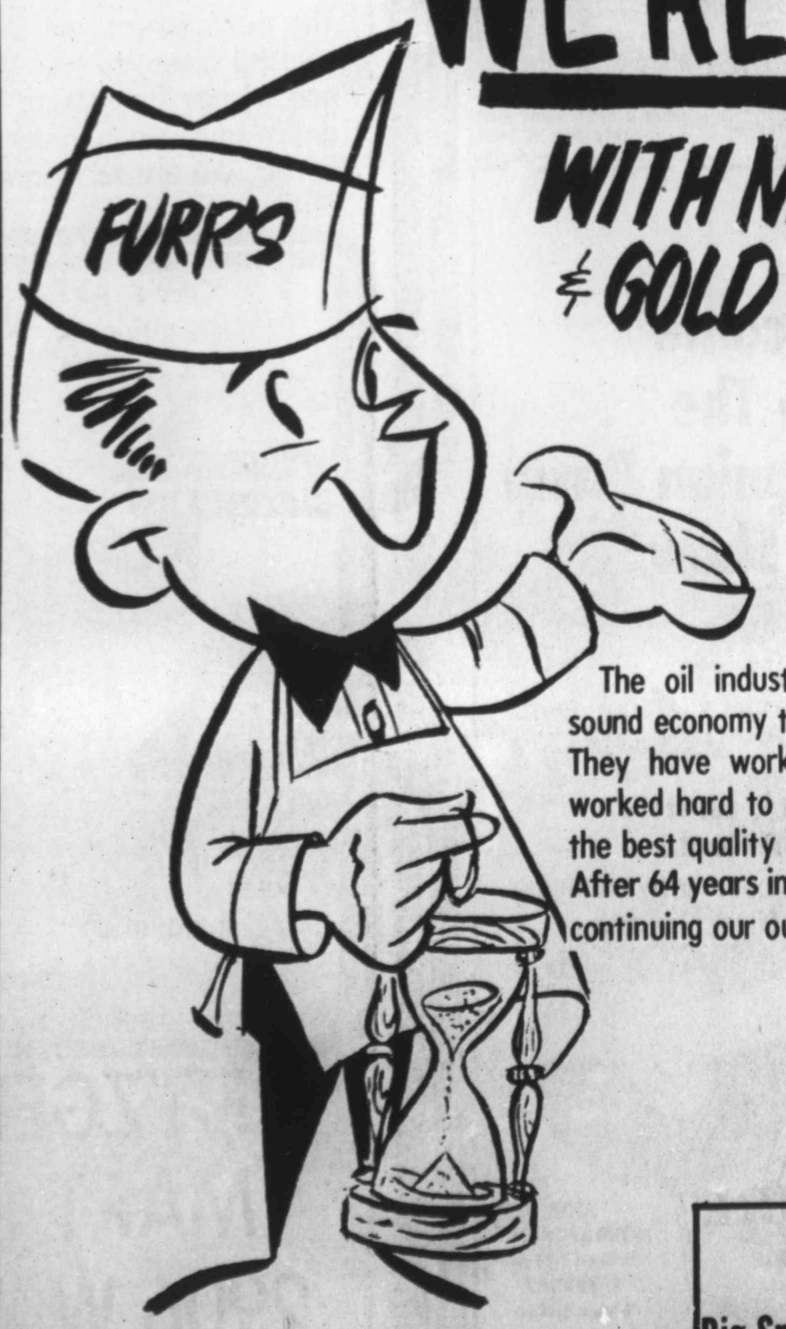

The oil industry has provided the Permian Basin with a sound economy that has been consistent throughout the years. They have worked hard to accomplish that. We have also worked hard to provide our customers with shopping comfort, the best quality in food items, and our lowest possible price. After 64 years in the Permian Basin, we look forward to continuing our outstanding service for your benefit.

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Texas tops states in minerals yield

AUSTIN—For the 43rd consecutive year, Texas has maintained its position as the nation's largest producer of minerals and energy resources.

The value of raw minerals produced in the state in 1977 reached $20 billion, according to a recently released report, "Minerals in the Economy of Texas."

The report, a joint publication of the University of Texas Bureau of Economic Geology and the U.S. Bureau of Mines, discusses the two major components of Texas' mineral industry—mining and mineral manufacturing—and their impact on the state's economy. The two agencies for many years have maintained a cooperative program in collecting and analyzing mineral production data in Texas.

The authors, Murphy E. Hawkins of the Bureau of Mines and Thomas J. Evans of the Bureau of Economic Geology, have included statistical data, tables, figures and a small map of the state indicating counties in which mineral raw materials are produced.

Fuels dominated Texas' mineral output in 1977, accounting for about 95 percent of the total value of all raw minerals produced in the state during the year.

Texas wells yielded 1,138 million barrels of crude oil, but that was about 51.4 million barrels less than in 1976. Natural gas production amounted to 7,109,188 million cubic feet—down 82,671 million cubic feet for the year.

Nevertheless, Texas continues as the nation's leading producer of crude oil, natural gas and natural gas liquids (natural gasoline, cycle products and liquid petroleum gases), producing 38 percent of the country's crude oil and 36 percent of its natural gas.

Texas lignite production amounted to more than 15 million short tons in 1977. The output is expected to increase substantially in the near future, as several new mines and plants are scheduled.

Texas' mining industry also produced metallic minerals—iron, magnesium and uranium—and industrial (or non-metallic) minerals such as stone, sulfur, cement, graphite, sand and gravel, salt, clays and others.

Total value of the metallic and industrial minerals output was $1,127 million during 1977. Texas was the leading state in sulfur, magnesium and graphite production.

According to the report, by midyear 1977 the Texas mining industry employed an average of 150,000 workers who earned a total annual wage of about $2.3 billion.

During the fiscal year ending Aug. 31, 1977, taxes from crude oil, gas, sulfur, motor fuel and distribution of cement amounted to $1,353 million and provided about one-fifth of the total state income that was derived from taxes.

The report also discusses the manufacturing segment of Texas' mineral industry which involves the processing of crude mineral commodities—some of which are imported from other states and foreign countries—into finished or semifinished products. This segment includes refineries (petroleum and alumina), smelters (zinc, tin, aluminum and copper), plants (brick, cement, petrochemical and magnesium) and steel mills.

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Single copies of the 24-page report, published by the U.S. Department of the Interior as SMP-3 (State Mineral Profiles), June 1978, are available without charge from the Publications Distribution Branch, U.S. Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pa. 15213; or from the Bureau of Economic Geology, The University of Texas at Austin, University Station, Box X, Austin, 78712.

Symposium slated at Hobbs

HOBBS, N.M.—The biennial Petroleum Technology Symposium sponsored by the Hobbs Petroleum Section of the Society of Petroleum Engineers of AIME will be held Oct. 30-31.

The headquarters will be the Holiday Inn in downtown Hobbs. The symposium will include the presentation of 18 technical papers, and 16 exhibitors have been scheduled.

Granville Dutton, director of government relations for Sun Production Co. in Dallas, will be the principal speaker at a buffet luncheon Oct. 30.

Meeting registration, including pre-prints of the papers, will be $20 for members, $28 for non-members, and free for student members. There will be an $8 charge for the luncheon.

ADVANCE SIGNUPS

Advance reservations can be made before Oct. 25 by contacting Mark Whitaker, Continental Oil Co., P. O. Box 460, Hobbs, N. M., 88240.

The symposium will include three session, from 8:30 a.m. to 11:30 a. m. Oct. 30; from 1:30 p.m. to 4:30 p. m. Oct. 30, and from 8:30 a. m. to 11:30 a. m. Oct. 31.

The registration desk will be open from 5 p.m. to 9 p.m. Oct. 29 and from 7 a.m. to noon Oct. 30 in the lobby of the Holiday Inn Motel.

Petroleum Technology Symposium to include 18 papers and 16 exhibitors. Headquarters will be in the Hobbs, N. M., Holiday Inn.

Committee chairmen for the symposium include: Bill Hart, Dowell, and Doug Sprague, Texaco, co-chairmen of the General Committee; Lowell Deckert, Conoco, Program; Mark Whitaker, Conoco, Publicity; Jerry Woltz, Cardinal Chemical, Entertainment; Ron Skalenda, Texaco, Finance; Don Bolt, Conoco, Exhibitors; West Hayworth, Texaco, Arrangements, and Norbin Sikes, Gulf, Housing & Registration.

FIRST SESSION

The schedule for the first session in order of appearance:

"A pump-Off Detector System," M. M. Patterson, Shell Development Co.

"Factors Affecting Water Blocking and Gas Flow from Hydraulically Fractured Gas Wells," S. A. Holditch, Texas A&M University.

"Radial Differential Temperature (RDT) Logging—A New Tool for Detecting and Treating Flow Behind Casing," C. E. Cooke Jr., Exxon Production Research Co.

" A Fracturing Technique to Minimize Water Production," M. Misak, Halliburton Services.

"Factors Affecting the CO2 Minimum Miscibility Pressure for a Reservoir Oil," W. F. Yellig, Amoco Production Co.

"Foamed Acid, A New Concept in Fracture Acidizing," G. A. Scherubel, Dowell Division of Dow.

Granville Dutton, Sun Production Co. will be the guest speaker for the noon luncheon.

SECOND SESSION

The program for the second session:

"The Optimization of Well Spacing and Fracture Length in Low Permeability Gas Reservoirs," S. A. Holditch, Texas A&M Univeristy.

"Interpretation Guidelines for After Frac Temperature Logs," R. C. Smith, Amoco Production Co.

"Prediction of Secondary Recovery Results in Stratified Reservoirs," B. H. Caudle, The University of Texas at Austin.

"Evaluation of Cement Fluid—Loss Behavior Under Dynamic Conditions," C. E. Bannister, Dowell Division of Dow,.

"Use of Fine Salt as a Fluid Loss Material in Acid Fracturing Stimulation Treatments," F. Schriefer, The Western Co.

"Designing and Equipping Deep High Pressure Anadarko Well Completion," H. E. Lindsey Jr., MWL Tool & Supply.

The social hour will be from 5 p.m. to 6:30 p.m.

THIRD SESSION

The schedule for the third session:

"The Technology and Economics of Gas Recovery from Tight Sands," L. E. Elkins, Lewin & Associates, Inc.

"Description & Use of Polymers Used in Drilling, Workover & Completions," R. C. Carico, Kelco Division, Merck & Co., Inc.

"Matrix Treatment Employs New Acid System for Stimulation & Congtrol of Fines Migration in Sandstone Formations," R. L. Thomas, Dowell Division of Dow.

"The Effect of Various Proppants and Proppant Mixtures on Fracture Permeability," R. R. McDaniel, BJ-Hughes, Inc.

"Production Cost Reduction Through Casing Corrosion Monitoring," J. M. Bradshaw, Dresser Atlas.

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Lottery offers chance to win petroleum lease

WASHINGTON—Advertisements for government oil and gas lotteries promise that for only a few dollars, private companies and individuals will get Uncle Sam to give people a chance on "big money" oil leases. How do they do it?

The same way anyone else can do it, by filing an official drawing entry card yourself. And the Department of Interior's Bureau of Land Management has a new booklet to tell how to go about it. For a free copy, write Consumer Information Center, Dept. 682F, Pueblo, Colo., 81009.

But according to the BLM it pays to know the facts before applying. And the somber facts are: that the government land involved is not recognized as being within a known geological structure of a producing oil or gas field; that 90 percent of the awarded tracts are never drilled; and that chances of winning the drawing are remote. Last year, for instance, roughly 2.5 million people filed for about 9,000 tracts.

How do the drawings work? Each BLM state office prepares and posts a monthly list of lands available for re-leasing. A tract will range in size from 40 acres to a maximum of 2,560 acres. The lists are available from BLM state offices by mail, for a few dollars. Applications for leasing any of the tracts are accepted until 10 a. m. on the fifth working day following posting. To apply, fill out Form 3112-1, available free from any BLM state office; sign it and pay a non-refundable $10 filing fee.

If a person is one of the lucky winners, within 15 days he must pay the annual non-refundable rental fee of $1 an acre. Since before beginning any drilling operation the lessee must furnish a bond of $10,000, and the capital risk is tremendous, the winner probably will want to sell the lease to an oil company or independent contractor.

If the tract is in a "hot" area, that is, near a known oil and gas development, a company probably will approach the winner. The company will pay a lump sum or, in some cases, give a royalty interest in future production. If the lease is more speculative, the winner will have to seek out a buyer.

Remember, too, that the government doesn't provide any geological information about the tracts. Although persons should be wary of services that paint an overly optimistic pictures of the chances, the lease holder may want to use a filing service that will, for a fee, evaluate the available tracts on the basis of geological and market information.

U.S. Postal Service to take part in show

Hundreds of organizations and individuals have given their endorsement and support to the beinnial Permian Basin Oil Show Wednesday through Saturday in Odessa.

Included is the United States Postal Service.

The post office, in cooperation with the Permian Basin Stamp Club, will offer a special cancellation service for letters mailed during the oil show.

Carl Hyde, an employee of the Midland Post Office and a member of the stamp club, said letters will be canceled with a special commemorative rubber stamp stating "Permian Basin—1940 Oil Show 1978—Odessa, Texas."

The stamp will include the usual round city and date stamp of the post office as well as the oil show's symbol—an oil field worker in a hard hat.

Hyde said the post office has received hundreds of letters requesting the special cancellation service. He said the service would be available at Ector County Coliseum complex grounds to persons who supply their own envelopes and a 15-cent stamp.

The Permian Basin Stamp Club will have a table set up at the show where special oil show envelopes may be purchased and cancellations obtained on the spot. The envelops will feature an artist's drawing of a pumpjack, oil derrick and an oil field scene.

Hyde said the special cancellation stamp would not be used until the opening of the show, but it had already become a collectors item.

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Pollution standards big hurdle in coal-fired plants

RICHLAND, Wash.—Air pollution standards probably will be the biggest hurdle energy planners face in siting coal-fired power plants in the Pacific Northwest, according to a recent Department of Energy study.

Under current emission standards, burning coal at several potential powerplant sites could approach legal limits for sulfur dioxide pollution, the study reported. Researchers found, however, air quality standards won't totally prohibit coal-fired power plants in the region.

The report was prepared at DOE's pacific Northwest Laboratory under the National Coal Utilization Assissment program. It outlined expected environmental, health and socioeconomic effects of increased coal use in Alaska, Idaho, Oregon and Washington.

The Pacific Northwest Laboratory is operated for DOE by Battlelle Memorial Institute. This study was directed by John B. Burnham, a member of Battlelle's Energy Systems Department and director of the Regional Assessment Program Battelle is conducting for DOE.

The study's long-range air-transport calculations indicate that the Mid-Columbia region of Oregon and Washington probably would have the highest sulfur dioxide concentrations in the Pacific Northwest under assumed siting conditions. This region, and the Four Coners area of New Mexico, showed the highest concentrations in the entire West.

Potential coal-fired plant sites restricted by availability of water in addition to strict government environmental regulations.

Potential sites for coal-fired power plants are futher restricted by widely scattered "Class I areas"—areas with the most restrictive air quality standards, Battelle scientists said. The high coal-use scenario could exceed the allowable increment of two micrograms of sulfur dioxide per cubic meter in several of those areas, especially in Washington state, researchers said.

Many locations already are listed as Class I areas, and several additional areas in the Pacific Northwest could be nominated by state governors.

Water availability is another potential problem for coal-fired power plants. While there now is plenty of surface water —rivers and ocean—to support coal-fired generating plants, future water-allocation conflicts are possible between energy production, agriculture and fisheries demands, researchers said.

Small counties-with fewer than 25,000 peoplechosen as sites for coal-fired power plants could suffer considerable socioeconomic impacts without extensive planning, the study found. Analysis was based on social indicators such as population, personal income, public services and jobs available.

Idaho's Elmore County; Oregon's Gilliam, malheur and Morrow Counties, and Washington's Douglas and Lincoln Counties are candidate siting counties in this category.

Alaskan power-plant siting may be even more complex than siting power plants in the lower 48 states, the study found. Coal mining and burning will be restricted in and around national parks and wilderness areas in Alaska. As many as 100 million acrees of Alaskan land--in areas yet unchosen--could be designated as protected areas.

In addition to air pollution considerations, several other issues are important in Alaska:

The state has many energy resources, but relatively low energy demand. This contrasts with Idaho, Oregan and Washington, with their relatively high energy demand and few energy resources;

The Native Settlement Claim act—allocating large land areas to corporations of Alaskan Natives—may create problems in obtaining rights-of-way for transmission lines or roads through those lands, and,

Alaskan ecosystems are less well-cataloged and more diverse than those in Idaho, Oregan and Washington.

Other impacts from increased coal use in Alaska, Idaho, Oregan and Washington include increased rail traffic to move coal from mine to power plant, health effects—including increased deaths — primarily in mining and transportation, and possible increases in pulmonary diseases.

Despite these broad areas of concern, however, many other things probably won't be effected by increased coal use in the Pacific Northwest. Battelle researchers found that:

With assumed controls and cooling designs, water-quality impacts probably will be minimal, even in delicate estuarine and coastal areas;

Land-use impacts probably will be slight, except for growing agricultural competition for relatively level sites near water;

Terrestrial exosystems in Idaho, Oregon and Washington don't seen threatened by increased coal use if identified critical habitat areas are avoided, and,

Under existing regulations, impacts on aquatic organisms and their habitats seem manageable, although conflict is possible between energy production and fish preservation on some low-flow systems such as the Snake River.

The report, "The impact of increased coal consumption in the Pacific Northwest," is the first in a series of in-depth assessments of various energy sources. The series of PNL reports is to include assessments of benefits and resks of nuclear fission, nuclear fusion, solar and geothernal energy.

Wright, Texaco official warns proper steps needed at once

EL PASO—R. Earle Wright, Texaco Inc. vice president and senior officer in Houston, declared that "Unless we make the proper moves now, in a few short years the free world may be beginning a period of severe energy shortage."

Speaking before the Southwest Roundtable group recently in El Paso, Wright reviewed the history of U.S. energy supply and demand since 1955, emphasizing the effect of government price controls and other regulations.

The Texaco executive pointed out that the finding of new reserves of oil and gas in the United States in recent years has not kept pace with production, resulting in declining production rates and increased imports. "The irony of our declining oil and gas production is that we are not lacking in these resources," Wright said. He noted the U.S. Geological Survey estimates that large amounts of oil and gas remain to be discovered.

Wright cited the artificially low prices imposed by the Federal government on natural gas entering interstate commerce as one factor which has contributed to the present U.S. energy situation. "Artificially low prices in the short run stimulate demand and inhibit new supply, bringing shortages in the longer run," he said. "The consumer is not well served by a policy of cheap now—nothing later."

In addition to price controls, Wright said, "there are layers and layers of non-price regulation and controls. As each new regulation creates inequities, other new regulations are devised to correct the situation—and these new regulations create their own inequities. Regulations beget regulations!"

Citing the entitlements program and small refiner bias as examples of complex government regulations, the Texaco executive said that small refineries operated by major refiners, such as Texaco's El Paso Plant and others, "are forced to operate at a severe disadvantage in competition with favored small refineries, amounting to as much as 5 cents a gallon or more."

"I want to emphasize," Wright said, "that the petroleum era is not nearing its end. Oil and gas are still expected to provide over half of the free world's energy through the year 2000. What is coming to an end is the era of constantly expanding petroleum supplies and, of course, the era of cheap energy has vanished."

The Texaco executive stressed the need to develop all energy resources, including oil and gas as well as coal and other alternate supplies, as rapidly as possible.

He said that the private petroleum industry has the resources, technical and physical, to continue playing a major role in energy supply, but the industry is faced with tremendous capital investment requirements.

Expert says oil spills' harm to coasts minimal

ATLANTIC CITY, N.J.—An oil spill expert said today that offshore oil operations have had very little effect on U.S. ocean shorelines.

This assessment cam from Dr. Albert H. Lasday of Texaco Inc., who is chairman of the American Petroleum Institute's Committee on Fate and Effects of Oil in the Environment. He testified at a U.S. Bureau of Land Management hearing on the impact the sale of additional oil leases would have in the Baltimore Canyon area off the East Coast.

Lasday pointed out that although some 22,000 oil and gas wells have alreeady been drilling in U.S. waters, only one of these -- at Santa Barbara -- resulted in an oil spill which required extensive beach cleanup operations. But its effects on marine life, he emphasized, were "slight and temporary."

He said that since 1970, his API committee has been engaged in a comprehensive research program to determine what happens when oil is spilled into the ocean.

This program, he said, has already resulted in publication of approximately 100 scientific papers and technical reports by many scientists whose work was supported by API. One of the most significant conclusions of the studies is that "low-level chronic exposure to drude oil has a negligible effect on marine life."

Infact, Lasday said, where concentrations of oil are less than one part per million partss of water, the oil actually stimulated the growth of phytoplankton, the minute organisms found in sea water, which are the first link in the marine food chain. This ovservation was made by Battelle pacific Northwest Laboratories.

"Other investigators," he added, "have reported similar observations in Alaska, France, Canada, and elsewhere. Evidently at these low concentration, oil serves as a nurient."

At higher concentrations, Lasday acknowledged, oil does reduce the "primary productivity" of phytoplankton. However, he said, researchers have noted that once the exposure to oil wa ended, the phytoplankton "resumed a normal growth rate within a few days."

Lasday said the researchers also concluded that when "a spill episode has passed, only a few cels (of phytoplankton) need survive to repopulate a given area rapidly. Recruitment from nearby unaffected areas also would act to restore a normal phytoplankton population quickly. For these reasons, they repot that phytoplankton have a great 'rebound' potential."

He also pointed out that the legs of drilling and producion platforms become encrusted with various organisms such as mussels and barnacles, and that these in turn attract other marine life. According to a survey in Santa Barbara Channel, there was very little marine life in an area where two such structures were built in in 1959 and 1960. "Soon after construction," Lasday said, "the fish populations had grown to about 6,000 under each platform." Some years later the "fish populations were estimated at more than 20,000 under each platform.

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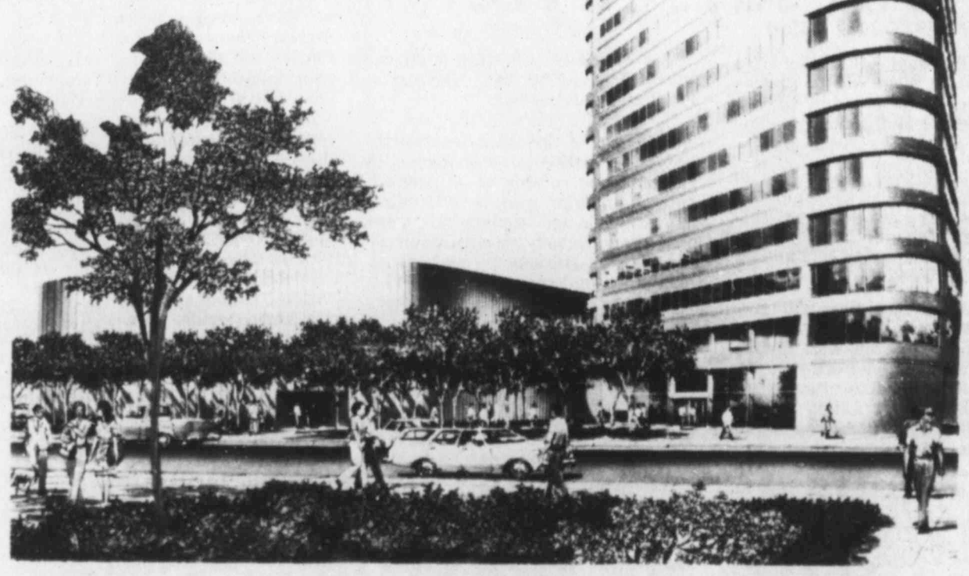

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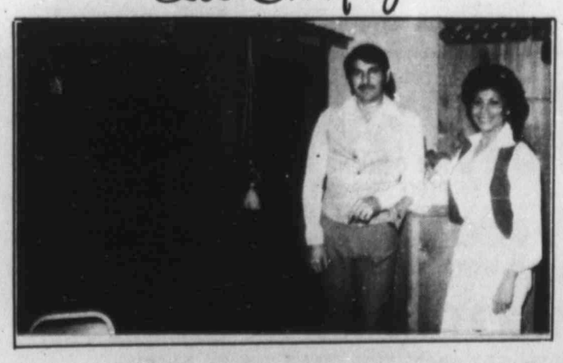

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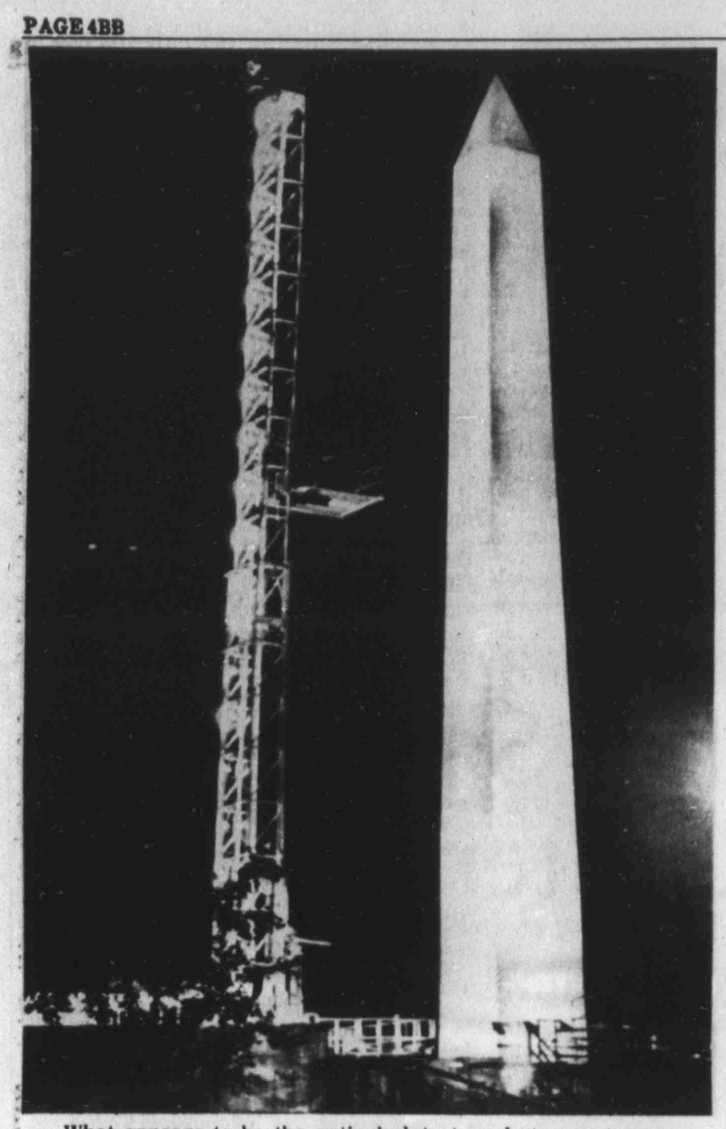

What appears to be the nation's latest, and strangest, space effort is really only the juxtaposition of the Washington Monument with an oil drilling derrick set up as part of Washington's Smithsonian Institution Festival of American Folklife. The festival, which ran from Oct. 4 through Oct. 9, was designed to explore how common cultural concerns tie people together in communities through demonstrations of traditional crafts, music, dance and cooking. (AP Laserphoto)

Only one word for 'spy ship'—big

SAN PEDRO,CALIF.——There's only one word for the Glomar Explorer, the former Hughes "spy ship" that attempted to raise a sunken Russian submarine a few years ago in the North Pacific Ocean.

That word is "BIG."

Now docked at the Bethlehem Steel Co. shipyards here, the ship makes a massive impression as it is being re-tooled to the more benign purposes of gathering mineral-rich managanese nodules from the deep ocean floor.

The Glomar Explorer is equivalent in size to a full-scale World War II aircraft carrier. With its soaring tower, designed to lift objects from the deep sea, it is incapable of passing under the San Francisco Bay Bridge.

Not only that, but it has a big technological job in front of it -- dragging up the valuable manganese nodules from a depth of up to 15,000 feet, some of the deepest parts of the world's oceans.

Glomar Explorer also represents one heck of a big gamble.

In terms of mere money, just getting the ship ready to do the job will cost more than $500 million. And that's with no guarantees on return. It's a bet that would make Las Vegas blush. Nonetheless, the backers of this ambitious program express confidence that the gamble is well worth the taking.

"There's no question that the resource is there," according to James G. Wenzel, president and chairman of the board of the Ocean Minerals Co. "And," he said, "we are very confident of the technologies."

The mining of manganese nodules from the ocean floor has always been confronted withtwo major problems: can the nodules be harvested and their valuable minerals extracted in an economical manner?

After studying the problem since 1965, Wenzel said in an interview the answer to both questions is a definite, "Yes."

The potential is tremendous, Wenzel said. Right now, he said, there are more than 400 sites in a zone between Southern California and Hawaii. Each of these sites, he said, has enough material in the form of manganese nodules to produce 5,000 tons a day for over 50 years.

This prospect is given added stress by the fact that the minerals contained in these strange nodules (scientists still aren't really sure of how they were formed) are among those becoming very scarce on land.

They include the basic manganese plus cobalt (the United States depends on more than 50 percent of its supply from Zaire), copper (becoming increasingly hard to get) and nickel.

Wenzel is essentially an officer of the Lockheed Space and Missiles Co. of Sunnyvale, Calif. He has poineered his firm's efforts to expand space technology into the oceans.

Wnezel said that much of the research and development work was done out of pocket by Lockheed. But now, he admitted, with the advent of oceangoing trials and the leasing of the Glomar Explorer from Glomar Marine Co., a Hughes subsidiary, the costs involved were simply too much for one company to handle.

The result, he said, has been the dreation of a new company, Ocean Minerals, with the backing of a pertnerhsip involving several large and international firms.

One arm of the partnerhsip involves the Standard Oil Co. of Indiana, through a subsidiary known as Amoco Mineral Co.

The second arm, Ocean Minerals, has three major stockholders -- Lockhed, the Royal Dutch Shell Co. (through another subsidiary, Billiton International Metals), and BosKalis-Westminster, a large dredging firm in Holland.

Already, Wenzel said, Lockheed has spent more than $60 million in developing the technology of the ocean mining system.

This involves, he said, the development of an "ocean miner" and a system of extracting valuable minerals from the nodules.

Although Ocean Minerals expects to complete its first sea trials of the total system by the end of this year, Wenzel said, full ocean mining operations aren't expectd to begin before the 1986-90 period.

The Glomar Explorer is equivalent in size to a full-scale World War II Navy aircraft carrier. It is incapable of passing under the San Francisco Bay Bridge.

Oil show in hands of 11 top committees

Eleven committees are responsible for the successful operation of the Permian Basin Oil Show which gets underway Wednesday at the Ector Coliseum grounds in Odessa.

Larry Byrd of Midland, president of the show, said the committees are in the hands of outstanding chairmen who have had years of experience with the huge four-day show.

The Building and Grounds Committee is under the chairmanship of W. I. Allen, with Amoco Production Co. in Odessa and L. F. Moore, with Mission Well Service, also of Odessa.

Allen estimates his committee has had more than 200 workers involved in getting the grounds ready for the show. F. C. Ratcliff, with Hughes Tool Co. in Midland in the executive committee member working with the Buildings and Grounds Committee.

Long before th oil show ever starts, a letter from the Building and Grounds Committee goes out to oil companies in the Permian Basin asking them to donate workes for service on the committee. Allen said the companies responded without questiong this year as they have in past years.

Throughout the show, from four to six workers from the B&G committee will be stationed in each of the nine buildings at the Coliseum complex and the two outside areas.

The Registration Committe is chaired by Cecil Smith of Midland, with Land and Marine Rentals. The executive committee member of this committee is another Midland, Joe Wamack, Texas Pacific Oil Co., Inc.

This committee draws most of its workers from members of the show's board of directors and gets a big boost from the Desk & Derrick Clubs of Midland and Odessa.

"Our job would be virtually impossible without the girls from the two Desk & Derrick clubs,"" Womack said. "They have helped us out for as long as I can remember and too, they are a lot nicer for the visitor to deal with than some old oil field roughneck." Gene Clark, with Phillips Petroleum Co. in Odessa is chairman of the Administrative Information Committee, with Jay Alvey coming from the executive committee.

Clark's job is to act as a trouble shooter for the show president and to take care of everything else that doesn't fall under the jurisdiction of another committee.

The Space Sales Committee was under the leadership this year of Frank Lovering of Odessa, and E. E. Hangan of Midland. With the help of Alvey and Sandi Cheshir as oil show secretary, the show was sold out even before the real planning for the exposition began.

Hagan is with Chevron and Lovering is a retired executive from Phillips Petroleum Co.

Other committees and their executive committee members and chairman include:

Membership, F. L. Thompson, with A.W. Thomson in Midland, and R.L. O'Bryan, with Halliburton in Midland.

Budget and Finance, E. G. Durrett of Odessa and R. K. Betts, with Sun oil Co. in Midland.

Hospitality, P. E. Fletcher of Midland and Richard Hinkle. with Chevron in Midland.

Parade, L. J. Scott, with Phillips, and A. C. Akins, with K&L Equipment, both of Odessa.

Old Timers Rig, Vernon Blain, with Johnn Drilling in Odessa, and R. D. McManigle, with Devonian Well Service in Odessa.

Old Timers Lounge, J. R. "Rudy" Wright, Midland, retired.

J. W. Hall of Odessa, chairman of the Honoree Committee.

Alaska crude to flow by 1981 says Kryzer

BILLINGS, Mont.—Crude oil from Alaska's North Slope will be flowing into the oil-short Midwest by the fall of 1981, the head of a new pipeline project predicts.

Thomas C. Kryzer, president of Northern Tier Pipeline Co., said that if all permits are granted, construction of the 1,500-mile pipeline can begin in the latter part of 1979 and be completed by June 1981.

The Northern Tier line will run from Port Angeles, Wash., to Clearbrook, Minn., connecting with a number of existing pipelines which have been carrying Canadian crude oil to northern and Great Lakes states. Canada is curtailing exports to the United States and will stop them completely by 1982, thus creating a shortage in this area.

Kryzer pointed out that while a shortage of oil is developing in the inland states, a surplus building up on the Pacific Coast, largely because of Alaskan oil, some of which is being shipped to Gulf Coast ports via the Panama Canal.

The Northern Tier line, he said, will take the surplus directly to the area where it is most needed and will provide the cheapest method of bringing oil to the north-central states because Port Angeles is the closest port to Alaska and also to the Middle East, and is the only port in the United States capable of handling supertankers.

The national need to distribute Alaskan oil to the northern tier and inland states has been recognized by Congress, and President Carter has said that construction of a west-to-east pipeline is a matter of high national priority, he daid.

The West Coast surplus was 200,000 barrels per day a year ago and Kryzer estimated it may be three times that today and could reach 800,000 barrels per day by 1982. At the same time, he said, a study has shown that the northern and midwestern states will have a shortfall of 600,000 barrels per day by 1982 if the Northern Tier line is not built.

Anticipating this situation, Northern Tier Pipeline Co. was formed in 1975 and had completed its preliminary engineering work by 1977. More than a year ago applications were filed for the various permits required, and the U.S. Bureau of Land Management was engaged, for a fee of $3.6 million, to make the necessary environmental impact studies.

Applications also are pending for the tanker port facilities at Port Angeles, and before the appropriate regulatory agencies in Washington, Idaho, Montana, North Dakota and Minnesota, and hearings have been held by some of these agencies.

Total cost to the company for the environmental and permitting activities will be more than $5 million, Kryzer estimated, and the total cost of constructing the pipeline will be about $1.4 billion.

If all permits are secured on schedule, actual construction can begin in the latter part of 1979 and the line can be in operation by the summer of 1981, with an initial capacity of 709,000 barrels per day. The line will transport both Alaskan crude and oil from the Middle East.

Summarizing the advantages of the Northern Tier system, Kryzer said that it will provide the lowest costs for movement of Alaskan or offshore crude oil from the West Coast to Northern Tier and inland refineries, will stimulate further development of Alaskan and West Coast producing capacity by providing a needed market, will reduce our balance of payments deficit by substituting domestic crude for foreign, and will provide the inland states with a secure source of petroleum not subject to embargo or interference by any foreign country.

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Like columns of an ancient temple, steel jackets abound beneath a Tenneco Oil Co. platform in the West Cameron area of the Gulf of Mexico. Driven into the Gulf floor, they extend high above the surface to the platform and are used to contain drillpipe and other apparatus of drilling and production.

Drilco Division to show one-stop assembly plan

ODESSA—Drilco Division of Smith International, Inc., will introduce the petroleum drilling industry to its "one-stop" concept of drill pipe assembly service at the Permian Basin Oil Show this week in the Ector County Coliseum in Odessa.

Drilco soon will become the first company to offer the drilling industry this "one-stop" concept by consolidating all drill pipe assembly operations at one location.

Its new 165,380-square-foot drill pipe services facility is scheduled for completion late this year on a 20-acre site at the company's Hardy Street headquarters in Houston.

SERVICES OFFERED

From this facility, Drilco will offer pipe inspection, tool joint manufacture and attachment, and internal plastic coating. The consolidation of these operations at one location will result in savings in transportation and pipe handling time and costs to the end users.

Drilco manufactures and installs tool joints on customer supplied drill pipe. The tool joints are inertia welded to the drill pipe, using appropriate preweld and postweld heat treatments. All sizes meet the mechanical property requirements specified by American Petroleum Institute (API) Spec 7, and all joint markings are in accordance with API recommendations.

PHENOLIC BASE

Drilco's pipe coating is composed of a phenolic base and an epoxy-phenolic top coat for optimum protection.

Its "straight flow through" coating system eliminates co-mingling orders during the coating process. This system allows for straight gravity and single layer conveying.

Every length of pipe moves in one direction at all times, and each order stays together since back-and-forth movement and elevation of pipe are unnecessary.

LESS HANDLING

The "straight flow through" system involves less handling of pipe than other methods, and consequently minimizes the possibility of connection damage and saves time and energy.

Drilco has installed the latest four-function electronic SPECTALOG inspection equipment as an optional part of its tool-joining procedures, to find any defects caused either from milling or from shipping and handling. Finding these defectes before the pipe is put in service can help prevent costly downhole failures.

Drilco's pipe coating is composed of a phenolic base and an epoxy-phenolic top coat for optimum protection.

MAGNETIC CHECK

In addition to the four-function electronic inspection, Drilco offers a magnetic particle inspection of the critical end area of the new drill pipe tube.

In-plant inspections are performed to API Spec 5A or other applicable standards. Full inspection consists of longitudinal defect identification, transverse defect identification, wall thickness measurement, grade comparison, and end area defect identification. A permanent record of the inspection is available.

MAJOR LINK

The Houston drill pipe service facility is a major link in Drilco's worldwide network of technology and service. At each Drilco location is a team of well-trained, qualified personnel ready to discuss drilling needs and problems, and to perform the tasks necessary to help the driller cut expenses through careful planning and buying.

Drilco's Permian Basin operations are centered in Odessa, where it operates a complete, fully-equipped manufacturing and service center. The company has additional Permian Basin area offices and service outlets in Hobbs, N. M.; Sonora, San Angelo and Abilene.

HOUSTON HEADQUARTERS

Drilco is headquartered in Houston and designs, manufactures, markets and services a variety of downhole drilling tools and equipment.

Smith International, Inc., Newport Beach, Calif., is one of the world's leading manufacturers and suppliers of a broad range of drilling tools, equipment and related services for the energy industries.

The company is also a leader in the technical development of oil and gas well drilling and mining tools and equipment.

The industries and markets served include oil, gas, geothermal, water well drilling, and mining and construction.

Lynes to feature quartz at Basin oil show

HOUSTON—Once again, technology developed to help NASA reach the moon has become directly applicable in the petroleum industry.

Quartz crystals originally used to monitor G-forces on the various manned capsules are now downhole—measuring temperature and pressure.

Traditional tools for gauging these parameters are somewhat less sophisticated. At best, the trusted mechanical gauges of the pastcan be relied on only when run in multiples of two or more. This allows the reservoir engineer to average error out and, with the aid of a microscope, develop a graph indicating reservoir conditions.

With government agencies demanding better reserves assessment, the pressure is on the industry to develop more accurate methods for reservoir evaluation.

Several manufacturers are now offering vastly improved pressure survey instrumentation. Suppliers include Hewlett-Packard, a newcomer to the oil field; Sperry Sun, a traditional supplier of downhole instrumentation, and Lynes, Inc., a manufacturer and marketer of pressure survey and DST instrumentation, in addition to its well known-line of inflatable packers.

Traditional downhole gauges suffer from several common complaints, hysteresis, lack of resolution and poor reliability among them.

Resulation is limited because the incremental increase or decrease which a mechanical gauge is capable of recording is a relatively large unit. These inherent limitations and the lack of mechanical reliability reduce data integrity, requiring the averaging of data from two or more gauges.

Quartz systems are capable of supplying a degree of resolution so high it surpasses ability of technology to take full advantage of the data.

Quartz crystal (and related strain gauge) technology has eliminated these drawbacks. The method is based on electronically monitoring the effects of pressure on the oscillation of a quartz crystal.

More data points are available due to the rapid oscillations, greatly increasing resolution. Because the crystal is monitored electronically, all mechanical devices and related hysteresis are reduced.

According to industry sources, the quartz systems are capable of supplying a degree of resolution so high that it surpasses the ability of current technology to take full advantage of the data.

At the 1978 Offshore Technology Conference, Lynes received an award from Petroleum Engineer International magazine for its version of the pressure survey instrumentation utilizing this new technology.

Lynes' DSR-300 Reservoir Evaluation System was one of 17 products honored with "Special Meritorious Award for Engineering Innovation."

The Lynes DSR-300 System incorporates the increased accuracy and resolution common to the quartz probes, along with several features unique to present instrumentation. These features include a variety of probes, compact packaging and sophisticated programming.

While most other DST operations are limited to use with a conductor wireline, Lynes has developed a set of complementary probes (strain gauge or quartz) which have a memory.

The probe is programmed at the suface, run in by slick wire or test string carriers and then retrieved on the completion of the test. The surface instrumentation then accesses the stored data.

Up to 1,024 bits of information can be stored in the probe. This provides a data capacity ranging from three hours to three weeks, depending upon the time interval selected between readings.

The probes are accurate up to plus or minus .05 percent FS, with plus or minus .006 percent FS resolution. Standard CWL probes are available, as well as probes for monitoring pressures at the surface.

The surface instrumentation is packaged in a briefcase. This case houses the necessary electronics, programming keypads, real time clock, LED display, printer, battery pack and battery charger. A second case containing strip chart recorders is available as an option.

The surface instrument accepts the data directly from the surface probes and the CWL probes, or retrieves the stored data from the memory probes.

The data is then available for paper-tape printout and LED display. The printer records the time (Delta time or real time), temperature and seven consecutive pressure readings.

The instrument is programmed to automatically compute the temperature correction and display or print an absolute pressure value. The instrument will display in various selected engineering units.

The Lynes DSR-300 System has been under field test and evaluation for more than two years. To date, the equipment has posted a remarkable success rate over 87 percent.

The complete line of probes and instrumentation will be on display in opertion at the Lynes exhibit at the Permian Basin Oil Show in Odessa.

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Soviets struggle to expand nuclear power

By ROBERT GILLETTE
The Los Angeles Times

MOSCOW — Twenty-four years after it opened the world's first atomic power station, the Soviet Union is struggling to expand a still-modest supply of nuclear electric power as its resources of cheap oil, coal and natural gas diminish at a quickening pace.

Despite the Soviet leadership's assignment of high priority to developing commercial nuclear power, construction of new power reactor installations appears to be lagging far behind the ambitious schedule set out in the five-year plan that will end in 1980.

Compounding the problem, there is evidence that the industrialized European third of the Soviet Union already suffers from a shortage of electric generating capacity. This shortage is likely to intensify if the Soviets fail to unplug the industrial bottlenecks that Western experts say are responsible for the lag in nuclear power.

According to a variety of Western analysts, theRSoviet Union now seems likely to fall 5,000 to 6,000 megawatts short of its 1980 goal of 19,400 megawatts of nuclear generating capacity or 7 percent of its total power supply (Total Soviet electric capacity in 1975 w8as 218,000 megawatts or about half that of the United states.)

During recent conversations with American science writers, Soviet nuclear experts declined to discuss this prospective shortfall and referred instead to the Five Year Plan as "the law." When talking about delays suffered by several specific power plants, however, they most often cited late deliveries of key components and a scarcity of skilled labor as the underlying causes.

Western analysts say Russia seems likely to fall 5,000 to 6,000 megawatts short of its 1980 goal of 19,400 megawatts of generating capacity.

The conversations occurred during a tour arranged by the AtomicNIndustrial Forum, the U.S. nuclear industry's trade association.

The Soviet Union's troubles are ironic, for the Soviet Union is one of the few industrialized countries where nuclear power development has not been curtailed during the past few years by public opposition, regulatory conflicts and shrinking estimates of future demand for electricity.

Mainly as a result of these factors, according to the International Energy Agency in Paris, the combined nuclear power output of Western Europe, North America and Japan by 1985 will probably be no more than 253,000 megawatts — less than half the generating capacity forecast by that year in the early 1970s. Some authorities regard even this figure as optimistic.

Diminished expectations for nuclear power in the West have left nuclear reactor manufacturers with worrisome levels of idle production capacity and have stirred fears in the United States that one or more of the four major so-called vendors companies may be forced out of the market.

The Soviet Union's problems are precisely the opposite. Western analysts attribute the Soviet nuclear lag to pervasive inefficiencies in its machinery industry, shortages of skilled labor, and a scarcity of such equipment as large casting furnaces, heavy lathes and other machines needed to turn out the massive, precision-tooled steel parts of nuclear reactors.

The Soviet Union started up its first atomic power plant, an enriched-uranium-and-graphite reactor, in June 1954, three years before the first American commercial reactor came on line at Shippingport, Pa. The original Soviet power reactor still runs today as an "operating museum," turning out 5,000 kilowatts of electricity at the huge Obninsk nuclear research center 60 miles southwest of Moscow in pleasant dairylands along the road to Kiev.

Unlike most Western research facilities, Obninsk is both a place of employment for some 6,000 persons and a thriving community, where laboratories and administrative buildings share groves of birch and mountain ash with high-rise apartments, stores and a few cafes.

After the initial success at Obninsk, civilian nuclear power evolved more slowly in the Soviet Union than in the United States and other major Western European countries. During the rest of the 1950s the only other Soviet power reactors to start operation were at a secret 600-megawatt station identified by the Russians only as "Siberian."

U.S. intelligence authorities have said the complex is at Troitsk (the only town by that name on the maps is in the urals) where the plant produces electricity and plutonium for weapons.

During the 1960s, as utilities in the United States and Western Europe began investing billions of dollars in nuclear plants, the Soviet Union started up only six small reactors totaling 937 megawatts. By 1975 5,500 megawatts of nuclear power provided 2.5 percent of Soviet generating capacity.

(By comparison, the United States has 71 operating power reactors producing 51,400 megawatts or 13 percent of the nation's needs. One-thousand megawatts is enough for the average daily needs of an American city of 500,000 people.)

The Kremlin's decision in 1975 to press ahead with nuclear energy as a major priority in the new Five Year Plan came amid gathering signs of an energy crunch in the industrialized European U.S.S.R. The aging Urals-Volga oil fields, long the Soviet Union's major source of petroleum, had begun to peak out and coal mines of the Moscow basin were showing increasing evidence of exhaustion.

To be sure, vast resources of fossil fuels remained to be tapped, but Soviet energy planners faced a gargantuan geographic disparity: roughly 70 percent of the energy in the Soviet Union is consumed on the western side of the urals whereas 70 percent of the known resources are east of the Urals, in Siberia and the Far North. Exploitation of Siberian and Arctic fuels is also a high priority but that involves enormous transportation and environmental challenges.

In official publications, Soviet energy planners have consistently indicated a belief that nuclear energy was the most promising and economical way of bridging the resource gap to power the country's industrial heartland.

Under the 10th Five Year Plan announced at the end of 1975, between 13,000 and 14,000 megawatts of nuclear power were to be placed in operation, constituting one-fifth of all new generating plants. All the new atomic power plants were to be built west of the Urals.

Western diplomatic and intelligence sources believe it is unlikely, however, that more than about half of this planned addition will be accomplished by 1980 and that total Soviet nuclear capacity will probably be more like 13,000 to 14,000 megawatts than the planned 19,400. Even this will represent a significant increase from the present nuclear generating capacity of about 8,000 megawatts.

The estimate of probable shortfall coincides with a generally gloomy assessment of the Soviet economy published last August by the U.S. Central Intelligence Agency. The CIA said that since 1971 consumption of electricity has been rising faster in the Soviet Union than installation of new generating capacity, thereby eating into reserves. In 1976 the Ministry of Power and Electrification was said to have noted that reserve capacity had been reduced and the reliability of the Soviet power supply system lowered.

The 20-page report added that despite the high priority placed on nuclear development to reverse this erosion and ease the strain on the electrical system, "The nuclear program is lagging badly. The Soviet machinery industry has not yet been able to supply the planned volume of components, and attempts to purchase nuclear equipment from Western countries have borne no fruit."

During the past decade, the Soviet government has taken sometimes drastic steps to circumvent its industrial deficiencies and put the nuclear program back on the track. One such step was the interim adoption of a power-reactor technology the government knew to be relatively uneconomical but which Soviet industry was capable of producing.

In 1971 an official delegation of American nuclear experts was startled to find during a visit to the Soviet Union that the Russians were veering away from Western reactor technology and were instead building huge new power plants of a unique design.

Essentially modernized versions of the first small station at Obninsk, these huge, 1,000-megawatt units used graphite rather than water to slow or "moderate" the neutrons released by fissioning uranium fuel, thereby sustaining a heat-generating chain reaction. Thousands of tubes embedded in the graphite along with the slightly enriched uranium fuel carried cooling water to draw off the heat to produce steam for the plants' turbine-powered generators.

These novel reactors — more than twice the power of any others in the Soviet Union but about equal to the largest in the West — have since been built near Leningrad, Kursk (to help power a new $1 billion steel complex) and near Kiev. They are also under construction or planned near Smolensk and in Lithuania.

Western visitors found this a curi-

(Continued Page 8BB)

First job completed

SANTA BARBARA, Calif.—Oceaneering International, Inc., announced recently that "Jim," one of its atmospheric diving systems, has successfully completed its first job on a subsea early production system.

The task was carried out for Brazil's Petrobras in the Enchova field off the Brazilian coast.

Jim walked along the seabed at depths of more than 400 feet to establish four guide wires around a completed wellhead.

Working in a safe and comfortable one-atmosphere environment, the Jim diver required no decompression. This eliminates the need for an on-board conventional saturation diving spread. Backup and support team requirements for Jim are minimal, thus making dives up to 1,500 feet economically practical.

According to Oceaneering's Nick Campise, vice president of Latin American Sales, two atmospheric diving systems will continue additional work for Petrobras in the same area.

The one-atmosphere, magnesium diving suit was established as an important new factor in offshore technology in 1976. In a series of record—setting test dives in the Canadian Arctic, Jim logged 15 hours, working in 905 feet of water. Since then, Jim has built an impressive track record under contracts with a number of oil companies including Exxon, Woodside, British Petroleum and Gulf, working at depth os 1,440 feet.

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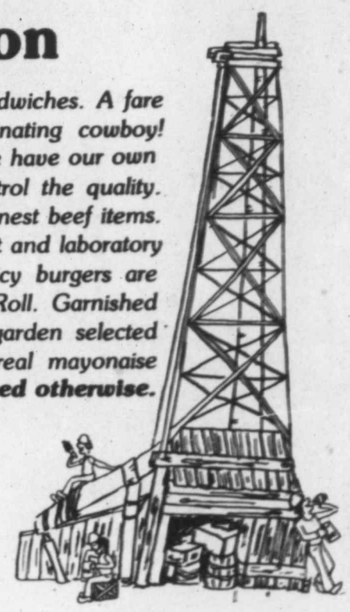

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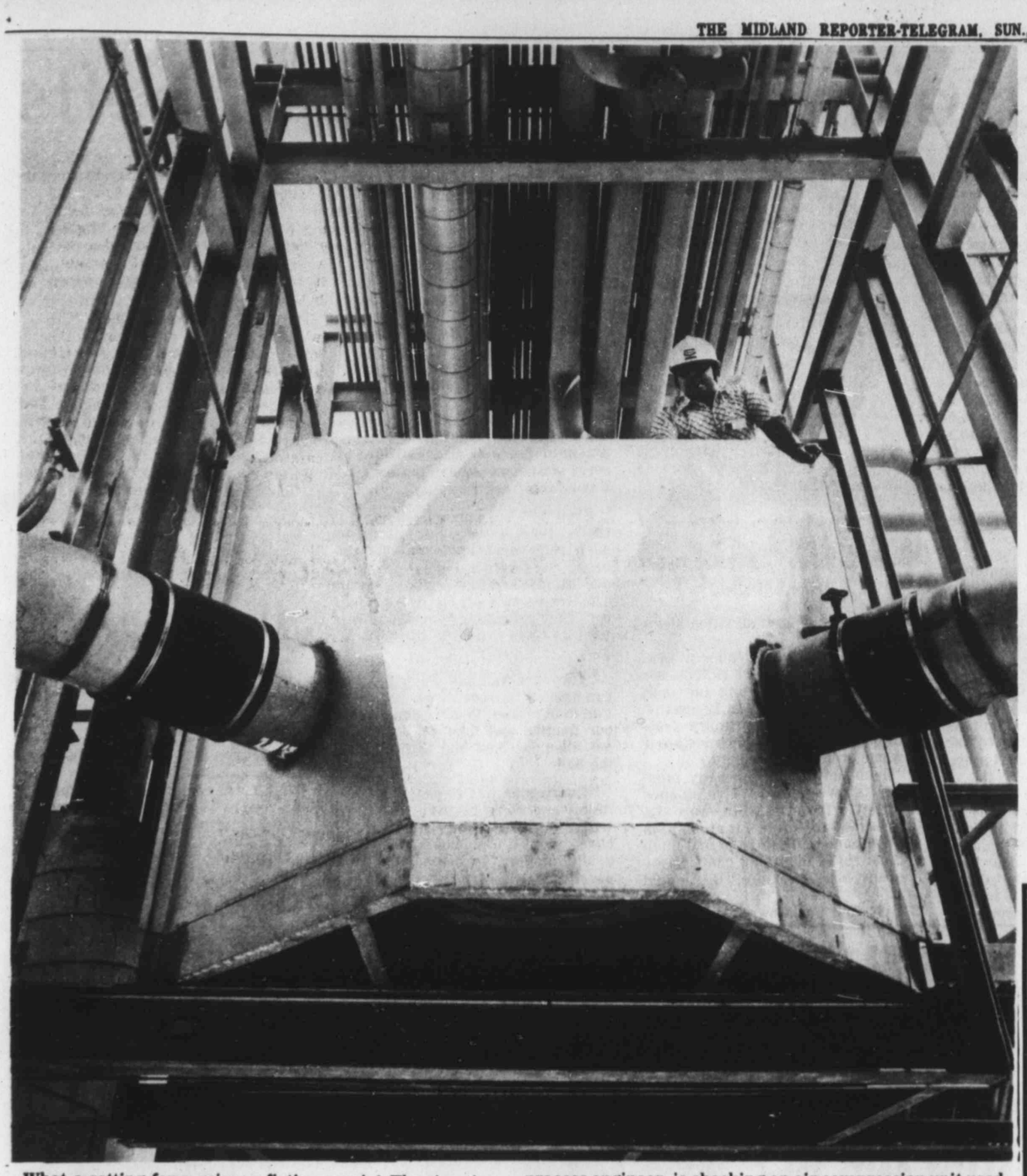

What a setting for a science fiction movie! The time is the present, though, and the place is the Tenneco Chemicals, Inc., plant at Pasadena, Texas. S. R. Madan, a process engineer, is checking an air compression unit used in the recently expanded polyvinyl chloride facility at the plant.

Canadian town sitting pretty in middle of energy crunch

EDMONTON—The city of Edmonton, located in the province of Alberta, Canada, is sitting pretty in the midst of a global energy crunch.

When the OPEC nations bludgeoned the western world in 1973 with the oil embargo, Alberta's oil and gas resources and the province's untapped abundance of northern tar sands suddenly became the focus of national and international attention and triggered private and government action to speed up development of Alberta's and northern Canada's energy potential.

PLUS EFFECT

According to Allen Bleiken, manager of the city's Business Development Department, "The oil embargo had a positive effect of Edmonton. For example, in 1973 the value of industrial investment in Alberta stood at $2.3 billion. For 1975 this had increased to $14.6 billion and in 1976 we had indentified $16.2 billion worth of investment representing more than 15,000 new jobs." Future developments in energy, agriculture, petrochemical and related secondary undustry will provide exciting new levels of economic opportunity.

It would not be inappropriate to discribe Edmonton as the Houston Western Canada. Houston is the fastest growing city in the U.S.A. and, like Edmonton, its booming economy is energized by a thriving petroleum-petrochemical industrial base.

RESERVATIONS

But the Alberta government has some reservations about allowing Edmonton to grown like Houston. Provincial development strategy favors more decentralization of industry and a checkrein on metropolitan growth.

To a reasonable point, the city will go along with this policy. Edmonton is equally concerned that its fast-paced development should not degenerate into a condition of urban sprawl or produce an over-heated economy.

At the same time, population growth (projected at 644,200 by 1990) leaves the city no option but to expand its industrial base to meet the demand for jobs and provide the revenues for extension of municipal services.

DEPLETING

The supply of city-owned industrial land is being rapidly depleted and the city is seeking annexation of all alnd between its present municiapal boundaries and a surrounding belt of land which the province set aside as a Restricted Development Area.

Annexation is an urgent priority to meet the increasing demand for industrial sites, provide for more orderly development of the city over the next two decades and give the administration greater control over the directions in which this future growth will occur.

Edmonton (and the province Alberta) seems destined to go on showing its heels to the rest of the country, and lighter-taxed, fully-employeed, well-paid Edmonton tonians like it this way.

Consumers aware of energy woes

AUSTIN—"Energy, Inflation and Economic Discontent" is the title of a year-long project that will attempt to discover whether consumers are able to make difficult policy dicisions regarding energy questions if they have a complete set of facts.

Drs. Michael Denney and J. Stephen Hendricks, two assistant professors of government at The University of Texas at Austin, believe that consumers are more aware of an "energy problem" than political scientissts and policy makers believe. Yet, the two scholars also believe that for consumers, "the energy problem" is the high cost of energy rather than a shortage of energy, as some policy makers maintain.

If the public understood more about energy and economic issues, however, the investigators believe citizens could make rational decisions regarding energy policies and accept trade-offs and sacrifices, if called for.

To determine whether their view of the subject is accurate, Drs. Denney and Hendricks are designing a national survey that will seek to find out:

How does the public perceive inflation? Are people more influenced by what the media say about inflation, or by their own experiences with rising prices?

What part does the cost of energy, notably gasoline and utility prices, play in their perception of inflation?

Do inflation and high energy prices cause distress on the part of consumer? How does this distress turn into political resentment?

How does their feelings about inflation and energy prices influence their attitudes and actions toward public policies and political leaders?

Dr. Denney noted:

"We're concerned about public discontent, not because we don't think the public should be mad at legislators or even because you can't enact policies — especially policies in which there are clear trade-offs that involve sacrifice on the part of somebody — if everyone is hostile."

"For energy policies to succeed," Dr. Hendricks added, "you need broad compliance and support. It's not a matter of a few people who consume large amounts of energy. It's a lot of people, each one consuming a little bit of energy that eventually amounts to a lot of energy."

In addition to sharing in a large national survey that will be conducted this winter by the University of Michigan's Survey Research Center as part of its regular monthly "Survey of Consumer Sentiments," the UT scholars plan to choose two cities - one in the Southwest and one in the Northeast - to look in depth at people's reactions to utilities as a component of inflation and the energy problem.

The two researchers explained that utility prices are a local matter, since gas and electricity usually are provided by local private or government services. Therefore, there can be a great deal of variance between locations that a national survey would tend to hide, they said.

The two cities they will study will be similar in size and makeup but will have contrasting energy conditions.

The last part of the project is a series of experimental group sessions, Dr. Hendricks said, that will attempt to find out how prople reason about energy questions and what kind of decisions they would make regarding energy policy.

Six to 10 persons will be asked to come together to talk about energy. They will be given an information packet regarding their local energy situations, asked to discuss that information and to arrive at a policy annexation of all land beergy use and cost on the basis of the information.

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Littlefield serious about eliminating oil field thefts

"When we had to measure our losses in millions of dollars annually, we had hit the bottom lime!" This was Baker Littlefield's reason for structuring the "Littlefield Plan" to combat oil thefts.

Littlefield, chairman of the International Association of Drilling Contractors chapter in Lafayette, La., and vice president of the Southeast Coast Division of the association, mounted his drive in Louisiana last April when Southwest Louisiana alone was losing about $10 million annually from oil-related thefts.

However, this is not a problem confined to one area or region. Nationwide theft losses are estimated to be $500 million annually.

This is Littlefield's second run-in with thieves in the oil industry. In 1975, he headed a drive to combat a similar situation. That effort, confined to Louisiana, was in response to a theft situation that was resulting in approximately $5 million in losses in his area. It resulted in several indictments and convictions—with a corresponding decrease in the amount of stealing.

However, because scarcity of equipment led to an unbalanced supply-and-demand situation, thefts began to dramatically increase about a year ago. They have been spreading over the nation like an epidemic as oil activity increases in an effort to supply the country's energy needs.

"As our situation existed seven months ago, thefts included everything from truck tires to pipe taken off trucks stopped for coffee on interstate highways to Christmas trees from producing wells...and there was no end in sight. We had to do something or be brought to our knees by a bunch of thieves," comments Littlefield. The result was the "Littlefield Plan."

In March and April Littlefield mobilized Louisiana's IADC members and other interested companies in a new approach to that state's theft problem.

His drive has attracted national attention and has produced outstanding results. Since the plan was put into operation, oil thefts among Louisiana members have decreased a dramatic 80 to 85 percent. At the same time, arrests have increased appreciably. It is too early for any report concerning convictions, but indications are that charges are solid and convictions can be expected.

Because of its success, the "Littlefield Plan" has been adopted by the Oklahoma-Texas Panhandle area as well as Louisiana. The rest of Texas was expected to join before the end of September (this article was written just before the end of that month.) Several other areas have also expressed strong interest and have indicated a desire to develop this into a nationwide effort.

Littlefield's approach is as simple as it is effective. Basically, it calls for a three-pronged approach: 1. oil companies pulling together and establishing a sizeable fund to aid in the apprehension and conviction of theives while, at the same time, speedily reporting any thefts to the proper authorities. 2. Close cooperation between the oil industry and local, state, and national law enforcement officials. 3. Use of the media to educate the public while simultaneously frightening the thieves by focusing the spotlight on the theft problem.

An 80 percent reduction in thefts would represent ultimate success to most people, but Littlefield is adamant in his conviction that this, alone, is not enough. He makes it clear that he is not interested in partial measurers, and if his name is going to head a program he intends for it to represent

Baker Littlefield

virtually complete elimination of the problem.

His dedication and leadership, as well as his courage, are reflected in his comments concerning the theft activity that continues in Louisiana. He contends that the primary problem that remains in his home state is now one of internal security.

"Each individual company must clean its own house. We've stopped the thefts from outside, now the thieves that are left in our area are in our companies. We have to find them and get rid of them. We can't blame anybody else, anymore," Littlefield said.

"It is time for the owners to take the responsibility that is rightfully theirs. In too many of our compnies the boss has abdicated his basic responsibility and his workers have gotten lazy. Many of our employees don't feel any loyalty and don't have any sense of pride because they don't have a goal to work for or manaagement that motivates them.

"We aren't going to lick this thing as long as the boss isn't on top of his own company. We surely aren't going to solve the theft problem if the top man is on the golf course or at the country club. In too many companies the boss doesn't know how bad things are until the well is dry. That is a sorry statement to have to make, but it is a fact.

Even with our current reduction in thefts, there is enough stolen from each rig every day to pay for one crew. Our reports indicate that we are losing about $200 per day per rig. The thieves now are our own employees. They are taking everything from paint to rings to drill bits...you name it.

"They are stealing anything they can haul off in a car. If we can afford that kind of loss, then we should shut our mouths and take our lumps. If not, then the boss had better get on the ball.

"Every man has to chase his own rabbit and clean his own backyard. We can stop the outsiders and we have, thanks to media, police and public support. Of course, we have paved the way for the success we have had by banding together and establishing iour reward funds, and in working with the police and the public.

"Now is decision time. We need to finish the job and we are the only people who can do it. If we don't take care of our own internal security we might as well publicly admit that we are our own worst enemies.

"The plan we have developed works. We have proven that.HHowever, until every single company involved takes that one last step and cleans up its own backyard we will not be able to truly eliminate the problem of oil field thefts. Until that time comes, I won't feel the 'Littlefield Plan' is truly a success.

The choice is ours and I can't believe we won't make the right decision. My faith lies with our industry and its management any day of the week."

Russians struggling for additional power

(Continued From 6BB)

ous diversion, for the United States and other countries had long since all but abandoned graphite reactors as too costly and complex for power production. Western countries had opted instead for so-called "pressurized water reactors" or PWRs, developed originally for submarines, in which a dense core of fissioning uranium is bathed in cooling water inside a massive steel pressure vessel weighing hundreds of tons. The water also serves to slow the neutrons so they can interact with uranium atoms and maintain a chain reaction.

In retrospect, it appears that Soviet nuclear experts also considered their graphite behemoths to be undesirabley expensive and complicated but built them anyway because nuclear power was needed and Soviet industry was not capable of turning out pressure vessels for large conventional reactors.

"The pressurized water reactor is more economical and simpler to control," Dr. Valery Legasov, a deputy director of the Kurchatov nuclear research institute in Moscow, said.

Noting the requirements for massive, precision-made pressure vessels, he added: "At present the Soviet Union feels limitations in constructing such vessels. Therefore to be able to produce the necessary electricity we used the second type of reactor, the uranium-graphite."

The Russians also pursued development of PWRs, first for nuclear submarines and later for icebreakers and small electric power plants. By the early 1970s they had managed to scale up the technology to a medium-sized 440-megawatt reactor that has become a standard export item to Eastern Europe. Cuba and Libya also have ordered them, and in Finland, the only Western country thus far to import a Soviet nuclear power plant, one of these units is working successfully and a second is near completion.

American technical delegations to the Soviet Union over the past 10 years have almost invariably come away impressed by the quality of Soviet engineering — but also by Soviet industry's difficulty in turning blueprints into working plants. This mismatch of capabilities seems inevitable, though, in a country where vestiges of the primitive past appear daily in jarring juxtaposition with modern technology.

For example, in the bathroom of the late and revered physicist Igor Kurchatov; who led the Soviet atomic bomb project and whose home is preserved as a museum in Moscow, there stands a device that looks like a chrome-plated samovar. The man who, more than anyone else, made the Soviet Union a superpower had a coal-fired water heated for his bathtub.

Rolling south from Moscow in a modern, comfortable passenger train (imported from East Germany) the traveller is still passed in the night by an ancient steam engine or two. Three hundred miles south of Moscow on the outskirts of Voronezh, a city of 900,000 and a center of the Soviet aviation industry, one still sees rustic villages with rutted mud streets and an occasional thatch-roofed bungalow.

The Soviet Union's largest nuclear power plant is about 25 miles from Voronezh at a scenic bend in the Don, where plumes of steam from seven huge cooling towers dominate the skyline. A few miles from the plant is the new town of Novovoronezh, a community of 25,000 created when the plant was begun in 1957 to provide a labor force for construction as well as living accomodations for technicians and administrators at the power plant.

Eventually, according to construction director Dmitri V. Prosorovskiy, the town — a neat and compact community whose central square is dominated by the universal symbol of the atom — will grow to 50,000 and will have a factory for making spare parts for reactors.

Four pressurized water reactors ranging from 210 to 440 megawatts have come on line at Novovoronezh since 1964 and a fifth unit — the nation's first 1000-megawatt PWR — is scheduled to start operating next year. (About a dozen PWRs of this size or larger have begun operating in the United States since 1973 and 43 others up to 1250 megawatts capacity are under construction.)

Currently running about three years behind its originally announced startup date of December 1975, this big new unit is the prototype of dozens of main-line power reactors the government says it plans to build in the 1980s.

In a bold effort to circumvent the bottlenecks that have plagued its nuclear industry in the 1970s, the Soviet Union is building a mammoth, 1,600-acre factory complex for 1000-megawatt PWRs near Volgadonsk, a city in southern Russia where the Volga and the Don rivers bend toward each other like the neck of an hourglass.

Here, three parallel assembly lines are expected to turn out the pressure vessels, steam generators, turbines and other components of whole power plant "packages" and ship them out by river barge like so many automobiles.

As might be expected in an undertaking of this scale, schedules have slipped somewhat, although not seriously. Soviet press reports say that the first components rolled off the line this summer, six months ahead of schedule, but Western observers say these appear to be relatively modest items — not the crucial presure vessels — and that part of the first asembly line is probably still devoted to building the rest of Atommash, rather than power reactors.

Some U.S. officials suggest that a little delay may be beneficial. As it is, the Soviet Union will probably have no more than two years' operating experience with a large pressurized water reactor before the first of a mass-produced version of the Novovoronezh comes off the assembly line in 1981.

Barring any mishaps, however, the Kremlin clearly intends to press Atommash into full production as rapidly as possible, for it will play a key role in the Soviet Union's strenuous efforts to maintain energy self-sufficiency over the next several decades.

Odor added

HOBBS, N.M.—The gas which is sold to homes and businesses is mostly methane with a small amount of added mercaptan for "smell".

Because the natural gas coming from the field usually contains other ingredients, processing plants have been built to separate out the varuous paraffjnic hydrocarbons and to remove the carbon dioxide, hydrogen sulfide, mercaptans, and water. This type of plant is referred to as a natural gas processing plant or gasoline plant.

The 41 natural gas processing plants in New Mexico processed almost a trillion cubic feet of gas during 1977, producing 50.7 million barrels of butane, propane, natrual gas and other products.

Field compressors are used to "send" the field or natural gs to the processing plant if natural field pressures are low. Upon arrival at the plant, the gas is first "scrubbed" to remove any liquids.

Scrubbing is usually accomplished by routing the gas over baffles. The liquids then drop out. In order to safely compress the gas, it must be free of any liquids. Liquids from the scrubbers may be sent to the oil separator or to waste prods.

After the gas foes through several stages of compression with cooling and scrubbing occurring in between, the "clean-up" and separation processes begin. Recovered liquids are futher processed to obtain propanes, butanes, motor fuel and other products.

The New Mexico plants are located in Lea, Eddy, and Roosevelt counties in the southeast part of the state, and McKinley, San Juan, and Rio Arriba in the northwest.

The 50.7 million barrels of production from the plants in 1977 included 21.9 million barrels of natural gasoline, 7.3 barrels of butane, 9.5 barrels of propane and 12 barrels of composite liquids.

Average increases

HOUSTON—U. S. Domestic oil production continued to reflect the additional utput of Alaska North Slope with a daily average of 8.92 million barrels in June, 10.9 percent larger than last year.

During the firt six months of 1978, the U.S. produced 8.70 million barrels of oil per day., contrasted with 8 million the same time in 1977.

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This old-time rig adjacent to the main Ector County Coliseum complex, will draw the attention of many of the visitors at the Permian Basin Oil Show this week in Odessa. Rigs such as this one were instrumental in the development of the vast Permian Basin oil empire. Many pieces of modern oil field equipment will, along with this old rig, give visitors a then-and-now picture of West Texas' most important industry.

Trained oil industry personnel dwindling

HOUSTON—As the world's dwindling oil reserves become more and more important, so will the men trained to find it, dig and develop it.

Even though the oil itself is getting scarcer and scarcer, the oil industry is booming. Careers in petroleum engineering remain plentiful, according to literature distributed by the Society of Petroleum Engineers (SPE).

The SPE estimates that about 30,000 persons are employed as petroleum engineers. They work to develop oil and natural gas reserves, and then to maximize "profitable recovery" of the oil, according to the booklet "Careers in Petroleum Engineering."

In adition to the opportunities for engineers to supervise the selection and use of drilling equipment and methods, the field requires evaluative and economic skills to produce oil efficiently.

Engineers estimate the value of the supply based on its position and the ease of recovery. That role, as an accountant-advisor, makes the engineer valuable as an oil company employee, or as an independent consultant.

Oil research is a $600 million operation in the U.S. alone, the booklet relates. The work to improve production and the recovery methods takes place in oil company research centers, universities and private insutitutions. Such research is essential in order to better the current 60 percent recovery rate, and to enable engineers to dig deeper for reserviors.

Petroleum engineering also requires managerial skills. People who run oil companies make decisions about when and where to acquire drilling rights and how much equipment and talent to sink into any particular project.

The SPE recommends a Bachelor of Science in engineering degree, with specialized petroleum engineering study in the junior and senior years of college. Such specialized study might include thermodynamics, fluid mechanics, electrical processes and petroleum production courses.

Only 40 universities in the world offer petroleum engineering degrees, including Texas A&I in Kingsville, Texas A&M, Texas Tech and the University of Texas at Austin. All except Texas Tech offer graduate degrees in the field.

No energy crisis: Just huge political problem

CHICAGO, Ill.—The undiscovered resource base for oil and gas in the United States has not been exhausted and "with an adequate price structure and continuing technological improvements, there is a lot yet to be found," the exploration vice president of a major oil company said.

"We do not have an energy resource crisis, just an economic and political problem," William L. Adams of Amoco Production Co. said in a recent presentation to the board of directors of the Chicago Chamber of Commerce.

Amoco Production is the domestic exploration and production subsidiary of Standard Oil Co. of Indiana.

Although only one in nine wildcat wells find production, Adams reported, the rate of finding commercial oil and gas fields is not deteriorating. "Amoco's own studies show that our rate of finding reserves per foot of exploratory hole drilled over the last 15-20 years is stable. Another way to put it is that the more you drill the more you will find."

The U.S. still has a broad range of energy options, Adams pointed out. "This country is the OPEC of coal in the world and controls 32 percent of the world's supply. Tar sands and oil shale contain enough oil to last hundreds of years.

There may be large supplies of gas in geopressured water in deep rocks along the Gulf Coast. The crucial question is: What dollar and environmental costs are we willing to pay to produce this tremendous energy resource available to us?"

"Timing is my greatest concern," he said. "As of today, we still have time, but unless we soon get stable government policies and adequate prices for domestic energy, we face the prospect of grave economic consequences—of which today's inflation and adverse gtrade balance are only preliminary indications," he warned.

Future energy shortages are not inevitable, the Amoco executive emphasized.

"We must slow our massive oil payments to OPEC and put those dollars to exploiting our abundant oil and gas resources in North America, including tar sands and oil shales. We must get gas prices up to force conservation, and high priority usage, and to allow development of the massive resources in tight gas sands and geopressurized gas brines.

"We must greatly increase coal production to keep running our utilities and factories. We must increase research on a crash basis to develop other currently non-commercial energy sources," Adams said.

"These actions should allow us to have a growing economy to provide jobs for our population and to bridge the gap to the future," he surmized.

U.S. must strive for energy autonomy

LOS ANGELES—The United States must strive for "energy autonomy" through a middle road that combines energy objectives set by government with a free market supplemented by government-financed incentives when necessary, the president of Atlantic Richfield Co. said.

Speaking from prepared remains, Thornton F. Bradshaw told an international comference of the Financial Executives Institute recently that, in a world where a foreseeable deficiency in oil balance is apparently hoping farther into the future, an oil gap in the U.S. "is already here."

He called the nation's growing use of imported oil and handy expendent that "at best is a crutch, useful until we have found our own homegrown solution, but deadly in the longer term."

Expressing concern for the size of the oil-boistered U.S. fade deficit, Bradshaw said – "The development of domestic energy and its more efficient use...is essential for this country not only for our ecomonic health, but because we are expected to act as arelter and power in international political struggles, and we can't do it while we're shackled to imported oil and smothering the world with depreciating dollars in payment."

The Petroleum Executive outlined a proposal which "recognizes that energy must have a vigorous free market, and that the price mechanism is not a figment of greedy business mentality but the most powerful force there is for human material progress."

But, Bradshaw coutioned, some objectives are beyond the reach of the market and must be determined by national energy policy as established by government. He cited questions such as –

--How dependent on foreign sources of oil can the U.S. afford to be by 1990 from political and economic standpoints?

--How much oil or gas and nuclear and coal and oil from shale would be required?

--What kind of consuption rates can we afford?

Decontrol of oil prices is essential for energy suppiciency, he said, but because controls have been in force for a long time. Decontrol would have to be phased in transitionally. Freeing oil development of new sources of energy, Bradshaw agreed.

Federal Incentive, he explained, such as a tax credit, could be applied to development of shale oil,, a presently uneconomic source or to development of oil from liquified coal "which is currently well beyond the reach of the market."

His proposal, Bradshaw commented, "would eliminate government influence to the largest possilbe extent. It would replace the coercive motives of the regulatory system with one time-tested incentive--self-interet. It would provide at least the starting point for equity among individuals, leaving the imposition of futher economic and social equality to emans which would not interfere with the workings of the economic system."

Dr. Worzel elected VP

GALVESTON—Dr. J. Lamar Worzel, director at the Galveston Geophysics Laboratory of The University of Texas Marine Science Institute, has been elected a vice president of the international Society of Exploration Geophysicists.

Worzel is one of the founding members of both the Lamont-Doherty Geological Observatory at Columbia University and UT Austin's Galveston Geophysics Laboratory. After 15 years as a professor at Columbia and positions as assistant director, acting director and associate director of Lamont Doherty, he came to Texas in 1972. He first served the Galveston Geophysics Laboratory as acting director in 1974. In 1975 he was named director.

Worzel, who earned the Ph.D. from Columbia, is the author or co-author of more than 132 research papers. He was chairman of the SEG Oceanographic Committee from 1974-76. SEG has headquarters in Tulsa, Olka., and has 11,000 members in more than 100 countries.

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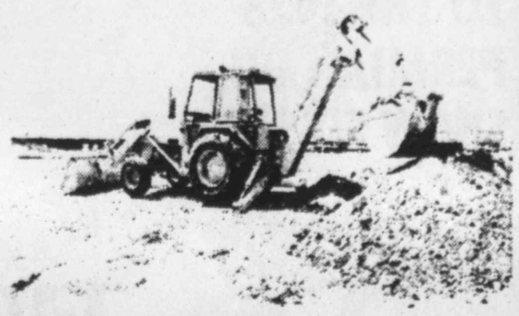

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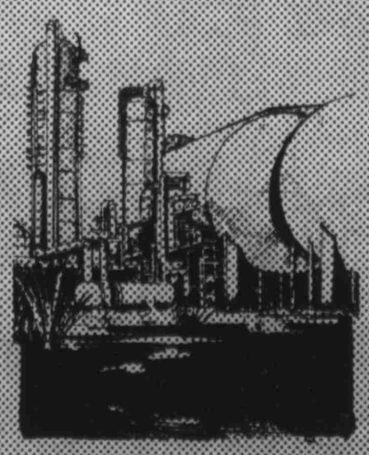
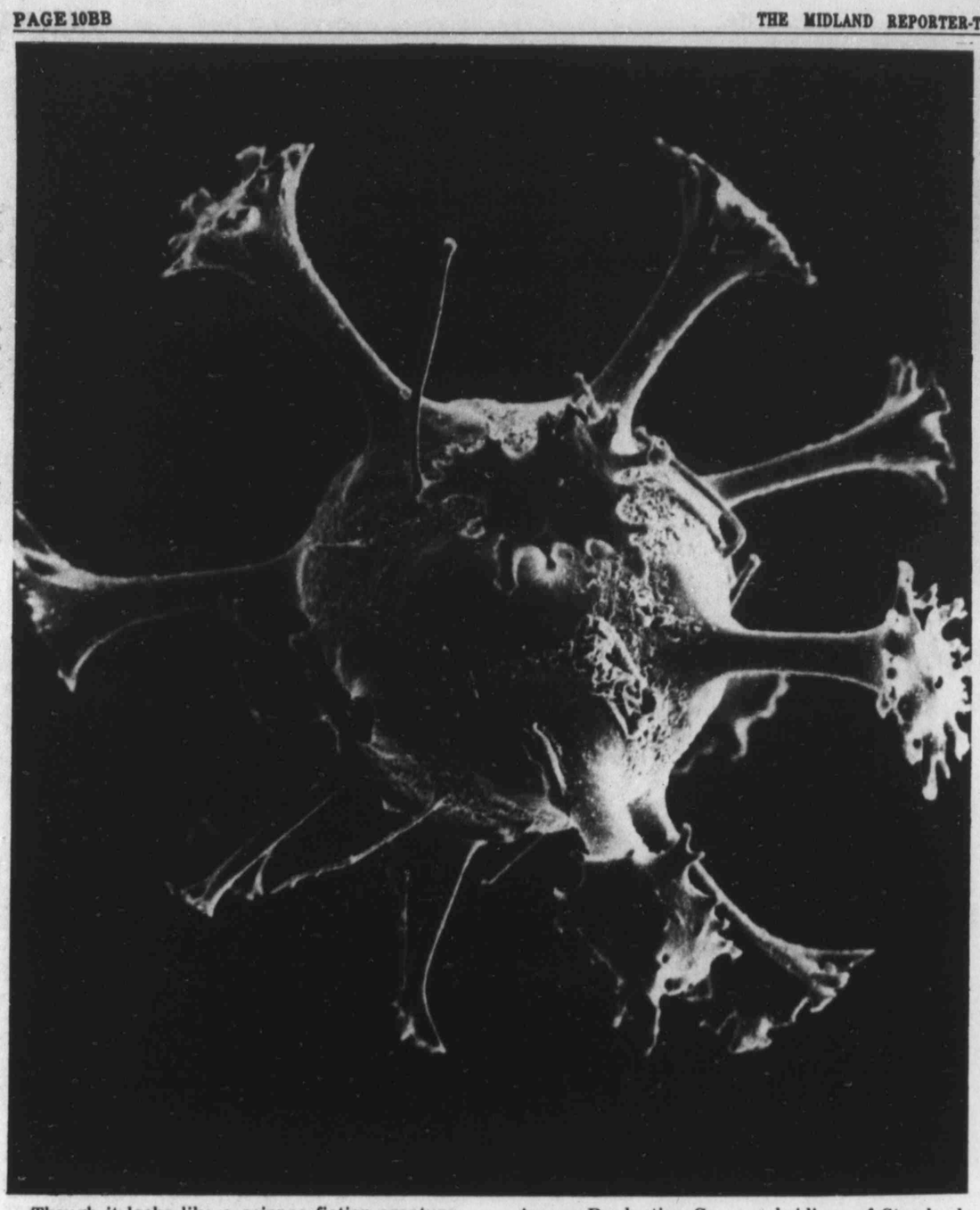




Though it looks like a science fiction creature, this odd-looking entity is a fossilized marine organism. The remains of the 85-million-year-old single-celled creature have been magnified thousands of times by a scanning electron microscope used by Amoco Production Co., a subsidiary of Standard Oil Co. of Indiana. By examining such bits of geologic minutia, Amoco paleontologists are able to age and date strata penetrated by drill bits.

Texas goes further than producing crude

By H. B. HARKINS
President
Texas Midcontinent
Oil & Gas Association

DALLAS—Texas long has been famous as a producer of petroleum energy. Fortunately, its involvement with crude oil and natural gas does not end with production of these resources in their raw state.

Petroleum refining and processing, including the manufacture of petrochemicals, strengthen the state's economy as Texas plants upgrade raw petroleum to finished commodities or feedstocks.

Petrochemical industry creates about 60,000 direct jobs in Texas and necessitates an additional 300,000 more.

Although this industry is highly automated, it accounts for one of every four jobs and $1 of every $3 in wages paid by Texas manufacturers. The U.S. Interior Department notes that in 1977, the mineral refining and processing industry in Texas employed an average of 195,000 workers. Texas refiners and processors paid these workers wages totalling approximately $3.2 billion.

The petrochemical industry alone creates about 60,000 direct jobs. It necessitates an additional 300,000 jobs in supporting trades and services in the state.

Texas refinery workers last year numbered approximately 41,250. They earned wages amounting to $844 million.

Texas' 52 refineries have a daily capacity of approximately 4.6 million barrels. This represents 27.2 percent of U.S. capacity; 5.9 percent of worldwide capacity.

During the four years between 1973 and 1978, Texas' capacity to refine crude oil increased 23.2 percent. But, refining capacity in several other states and foreign countries have increased at a faster rate since the 1973 Middle East oil embargo. The rest of the United States increased its capacity 26 percent; countries in the Middle East and Africa increased their capacity 25.1 percent.

As a result, Texas' share of the market is in jeopardy of declining. Increase capacity elsewhere means more competition for available crude.

However, the Texas refining industry holds the promise of continuing as a processing center for imported crude oil. Since 1972, a predictable but basic shift has occurred. Prior to that time, Texas refiners refined crude oil from Texas fields almost exclusively. By last year, that percentage had dropped to 49.6 percent. Some 8.9 percent came from other states, with approximately 41.5 percent from other countries.

A pipeline bringing Alaskan crude oil from California to Texas; a natural gas pipeline from Mexican fields to the Rio Grande; large tankers carrying crude oil and natural gas from the Middle East offloading on the Texas Gulf Coast; these developments, scarcely imagined only a few years ago, offer the best hope for a viable petroleum refining and processing industry in Texas in years to come.

Few people purchase crude in its original state

SANTE FE—Although millions of barrels of oil are pumped out of the ground in the nation each year, very few people buy crude oil. What they buy are oil products like gasoline, fuel oil, jet fuel, kerosene, asphalt, and the many other forms into which oil is transformed by refineries.

Eight New Mexico refineries processed 30,698,968 barrels of oil in 1977. Located at Kirtland, Bloomfield, and Ciniza in the northwest and Artesia, Loving, and Monument in the southeast, the refineries employed 569 persons.

PLANT CAPACITY

The Southern Union Refining Co. plant at Monument has been closed since the end of last year. The seven remaining plants have a capacity of 110,730 barrels a day, according to the State Oil Conservation Division. Almost two-thirds of New Mexico's oil production is sent to refineries in other states for processing.

Raw petroleum is a complex mixture of hydrocarbons, which are chemical compounds of hydrogen and carbon.

NOT SAME

The molecules, or hydrogen and carbon combinations, which furnish the energy for an automobile engine are not the same that go into the making of plastic foam. The molecular structure for asphalt is quite different from the ingredient which goes into hand lotion.

Petroleum hydrocarbons are first separted by distillation. Since they have different boiling points, they will turn into vapor at different termperatures.

The ones with the lowest boiling points will vaporize first. This process usually takes place in a heating device connected to a fractionalization or "bubble" tower.

OIL HEATED

Before entering the fractionalization tower, the petroleum is heated so that it turns into a mixture of hot vapors and liquid. The tower is a vertical column with many subdivisions, and it may be a hundred feet high. Large pipes connect it to other towers in the complex.

Residue is drawn off at the bottom of the tower for later use as asphalt or as heavey fuel. As other oil frctions rise and cool in the tower, they condense, arranging themselves at different levels according to their boiling points—gasoline is one of them—collect at the top.

LOW RANGE

Wherever the various fractions condense, they are withdrawn from the tower. Some fractions have such a low boiling range that they remain uncondensed. These are piped from the tower's top.

Distillation is only the beginning. For one thing, the frctions themsleves are made up of many different substances and may have to undergo futher separation. Also, the proportion of those substances does not always coincide with the demands for speical petroleum products.

For instance, Distillation and fractionalization produce rather small amounts of gasoline. Scientists have overcome this problem by "cracking" molecules with heat. In thermal cracking, high temperatures are applied under increased pressure.

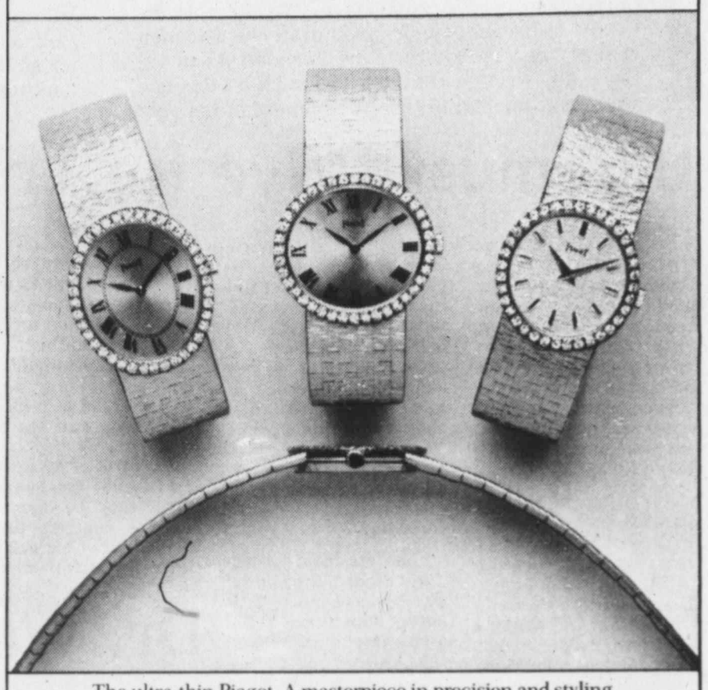
This puts a strain on the forces holding the molecules together and some of them break. Larger molecules are cracked into smaller molecules and these smaller molecules will rise to their proper levels in a fractionating tower.

NOT IDENTICAL

This is the method by which great quantities of gasoline are made from heavier hydrocarbons, but the cracked product is not identical to the "straight-run" gasoline. Its slightly different arrangement of atoms happens to yield a higher quality gasoline with better anti-knock characteristics.

Several other processes have been developed to juggle the atoms in hydrocarbons and to produce substances with special characteristics. For example, they can be made to duplicate the long chains of giant molecules of which rubber consists, producing a synthetic rubber.

PIAGET



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Sun Gas reveals change

DALLAS-Executive changes in Sun Gas Co.'s Tulsa-headquartered Natural Gas Liquids Group include the promotion of W. C. Lunsford to manager of Wholesale LPG Marketing, replacing G. L. Stephens, who becomes manager of NGL Supply and Distribution.

Lunsford, formerly manager of Planning and Analysis for the North Central Division of Sunmark Industries in St. Louis, is now responsible for the wholesale marketing of domestic and imported liquified petroleum gas, of which Sun sold more than 420 million gallons in 1977.

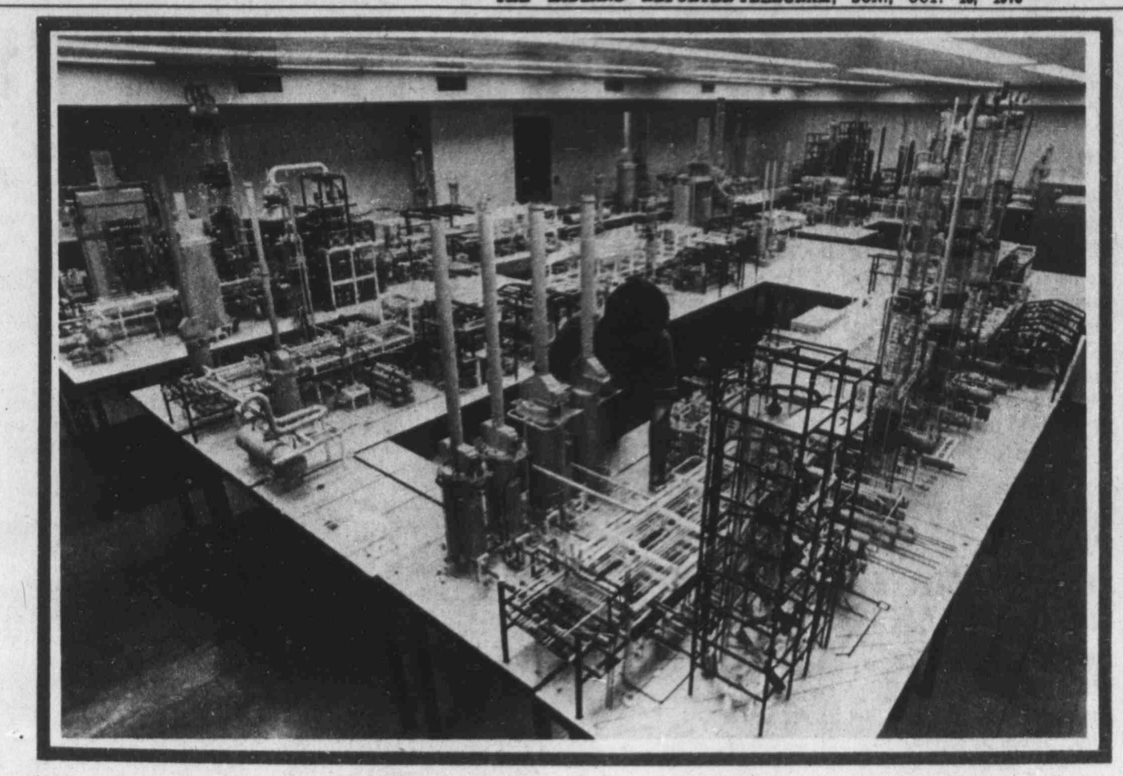
Lunsford joined the Sun organization in 1968 as an administrative trainee in Tulsa after earning an MBA degree from the University of Oklahoma. He progressed through the Sun retail marketing structure until Jan. 1975, when he became manager of Financial Analysis in the Financial Adminstration Department of Sun Oil Co. (Delaware) in Dallas. Lunsford was named manager of Planning and Analysis for Sunmark in Feb. 1976.

Stephens, a 27-year marketing professional, now directs the supply and distribution function for Sun's natural gas liquids and serves as the over-all manager of the company's NGL terminaling and storage ventures, including the recently completed facilities at Marcus Hook, Pa., and Hattisburg, Miss.

Stephens, a graduate of Oklahoma State University, began his gas industry career as an LPG sales representative for the Universal Petroleum Co. in 1951. He joined Sunray DX in 1966 as LPG wholesale sales manager. He was named manager of Wholesale LPG Marketing upon the formation of the Sun Gas Co., following the Sun-Sunray DX merger.

With operations in 32 state, Sun Gas serves customers ranging from independent retailers to multi-state marketers to large industries and utilities.

Stephens replaces Guy W. Howell Jr., who retired in early August after 32 years with the Sun organization. Lunsford and Stephens report to Robert C. Zuehlke, vice-president, Sun Gas Co., Natural Gas Liquids Group, in Tulsa. Sun Gas Co. is a unit of Sun Co., Inc. of Radno, Pa.



More than a model, this scale replica of Marathon Oil Co.'s Robinson, Ill., refinery, built in 1968 as a construction guide during an expansion program, still is in use as a trouble-shooting tool for engineers. The model is 27 feet by 50 feet and cost one-quarter of a million dollars to build.

10 percent slug of carbon dioxide gas pushed by nitrogen ups yield

AUSTIN-Using only a 10 percent slug of carbon dioxide gas pushed by pure cryogenic nitrogen, oil recoveries of more than 95 percent have been obtained in the laboratory, the Texas Petroleum Research Committee reported.

Dr. Paul B. Crawford, professor of petroleum engineering at Texas A&M University and assistant director of the committee, said the tests were made on stock tank oil samples from the Wasson field of West Texas. The linear tube was 100 feet long; pressure 1,250 pounds per square inch, and the temperature 107 degrees Farenheit.

The Wasson oil reservoir has more than 600 million barrels of crude oil which remains as a target for successful tertiary oil recovery process, Crawford said.

There are three to four billion barrels of oil located in the rock of the Permian Basin which provide the target for the nitrogen-carbon dioxide slug process, he related, observing that oil recoveries in the field would only be about half that observed in the laboratory because of irregularities in the rock.

TPRC is sponsored by the Railroad Commission of Texas, The University of Texas and Texas A&M.

Using all the carbon dioxide from New Mexico, Colorado and Utah it had previously been thought that only one-third as much carbon dioxide was available as would be required to recover the three to four billion barrels of oil. However, by using small slugs of carbon dioxide pushed by nitrogen, it appears there may be sufficient amounts of carbon dioxide to do the job.

The reservoir cost of pure nitrogen will only be about 15 percent of the cost of piped-in carbon dioxide, Dr. Crawford reported. One thousand cubic feet of cryogenic nitrogen will cost less than half the cost of $1.25 per thousand cubic feet cost of carbon dioxide, but one cubic feet of nitrogen will occupy three times as much space in the reservoir as carbon dioxide, he concluded.

Winkler figures told

AUSTIN—Oil fields in Winkler County produced 9,447,430 barrels of oil in 1977 and the value of the production was $85,404,767.

The county also produced 224,836,844 thousand cubic feet of gas per day with a value of $202,836,667. The total value of the counties production last year was $288,241,434.

Dependence spotlights need for more drilling

TULSA, OKLA.—Recent news reports indicate the U.S. oil-gas industry will drill more wells in 1978 than in any year since 1959.

Concern over increased dependence on foreign imports has spotlighted the need to expand domestic production. Improved price incentives for exploration and recovery apparently are encouraging companies to become more incolved in this risky business.

U.S. operators are expected to complete 48,615 wells this year, according to the Oil and Gas Journal (July 31). The total footage drilled probably will pass the 235-million-foot mark, the highest in histroy. The previous record was 283 million feet of hole in 1956. The cost also is expected to set a record.

The International Association of Drilling Contractors reported in July that the number of rotary drilling rigs in use around the country was running above 2,300 for the first time since December 1958.

The United States will be dependent on petroleum sources to satisfy most of its energy needs for the remainder of this century.

Government price controls have made it difficult for Americans to compete with foreign oil producers in recent years. The American public is paying an average of $9 per barrels for domestic oil and about $14 for landed imported oil. In a sense, the country has been subsidizing imported oil.

Industry spokesmen say government restrictions have prevented U.S. oil prices from keeping pace with inflation and have discouraged the kinds of costly exploration and special recovery procedures needed to make maximum use of our reserves.

Although proven oil reserves in the U.S. have declined to about 29.5 billion barrels, many scientists estimated that the remaining economically recoverable petroleum supplies are really about four times that amount. The problem of recovery is an economic one.

To reach maximum production levels, the industry will have to try to squeeze more oil and gas from existing fields; drill deeper and in less promising areas, and search in offshore waters and frontier regions.

The American petroleum Institute says these reserves can be developed if (1) prices of domestic liquid and gaseous petroleum are permitted to reflect the full cost of replacing those resources; (2) Federal onshore and offshore lands are made available for exploration by the private sector on a timely and adequate schedule; and (3) the government acts to assure a stabel economic climate that will attract investment in petroleum and other energy sources.

Each of these activities will involve high costs and serious risks. More competitive prices will enable producers to recover the huge investments required for exploration and development.

The United States is by far the largest energy user of any nation on earth. In recent years it has used more energy than the Soviet Union, Japan, great Britain and West Germany combined. Each person in the U.S. consumes six times as much energy as the world average.

Present U.S. oil reserves represent only 5 percent of established world reserves. It would last about four and a half years if there were no imports available and no new major discoveries made.

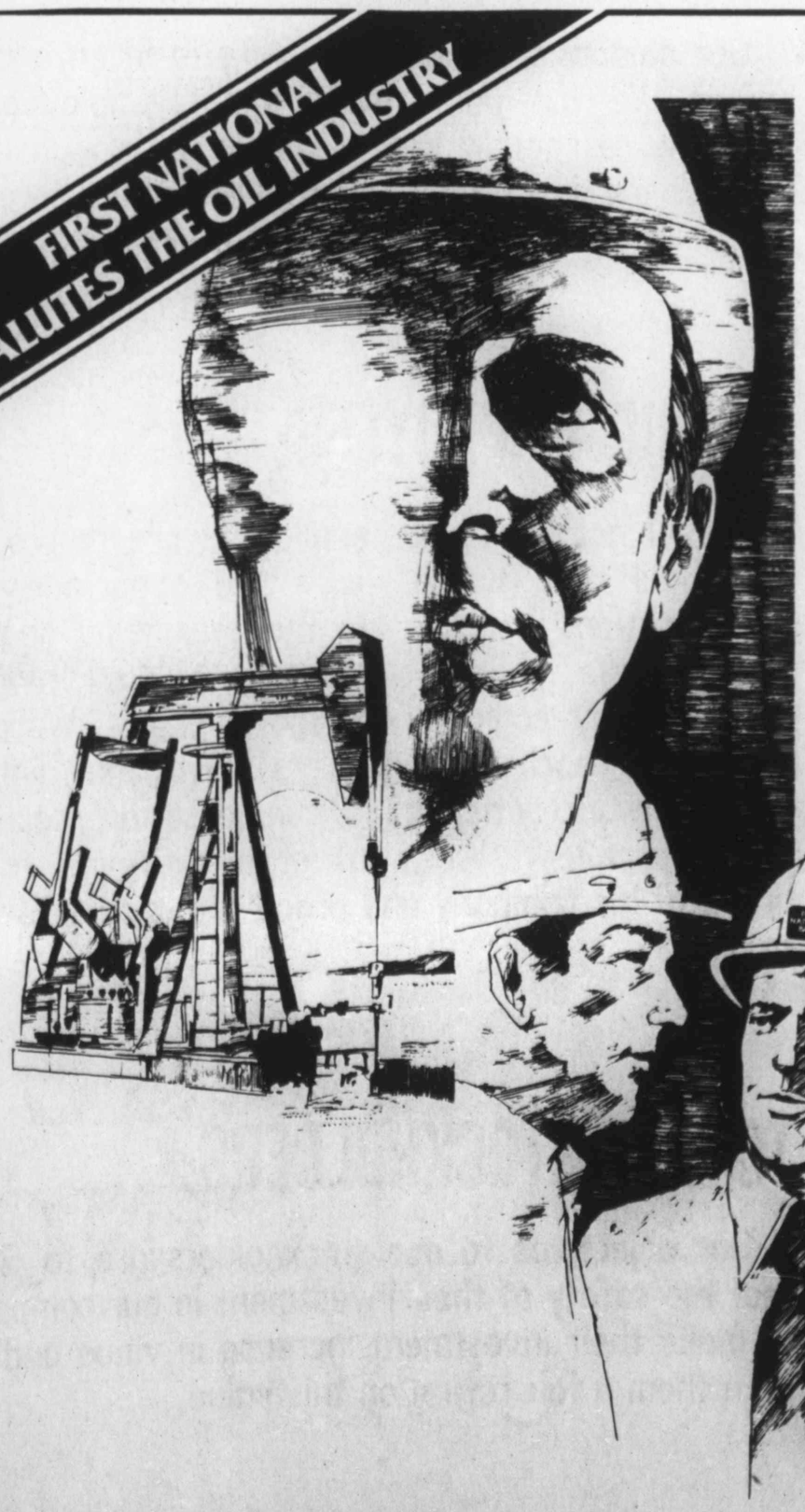
The real cost of replacing the oil and gas reserves being used up will be much greater than the original cost of existing reserves. The new supplies will have to come from deeper wells and from more remote and costly frontier areas.

Transportation costs will be higher because of longer hauls and changing logistical patterns. In addition, the impact of inflation on the petroleum industry has been particularly severe in recent years.

Members of the financil community have pointed out the enormous size of the petroleum industry's long-term capital requirements. Analysis of 35 leading U.S. oil companies showed that while oil company net income increased by some $5.8 billion between 1971 and 1976, capital expenditures increased by $14.7 billion, or some two and one-half times more than net income.

For the past several years the nation has been producing more than three billion barrels of oil a year and replacing that with only two billion barrels in new proved reserves. Just to stay even, the U.S. willohave to increase its reserve addition rate by 50 percent. The next 10 years will be critical, industry spokesmen note, because it takes at least that long to make any major changes in an inergy system as large as America's.

That's why reports of record drilling activity are so important.



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WPC Engineering was formed in 1970 with its primary objective being to provide the oil and gas industry with capable, experienced personnel qualified to plan, engineer, and supervise drilling, completion, and production operations regardless of depth or abnormal conditions encountered. Since its inception, this organization has successfuily provided these services to oil and gas operating companies engaged in drilling deep, high-pressure wells, as well as normal pressure well.

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WPC-Worth Systems manufactures special high-temp-high pressure logging tools and complete logging trucks for the wire line industry at large as well as for our own use. We count most of the major wire line companies and many of the major oil company research and development groups among our customers. In addition to our domestic customers, WPC-worth Systems has sold equipment to operate in Europe and South America.

THE OBJECTIVES OF WPC INC.!

TO OUR CUSTOMERS:

Our objective to our customers is to provide them with quality products and services which will best assist them in accomplishing their goals. We will always stand ready to serve with honest effort, creative ideas and highest business ethics. We shall always strive to adjust our methods and procedures to fit those of our customers.

TO OUR COMMUNITY:

Our objective to our community is to be a good citizen. We want our company and its employees to earn the respect of their community through their good work in community activities and through their exemplary standards of behavior.

TO OUR EMPLOYEES:

Our objectives to our employees are to provide each man and woman with the opportunity to develop their abilities to the maximum and to utilize these abilities to the maximum mutual benefit of the company and the employee. We shall strive for each employee to have the highest possible work satisfaction, compensation, security and opportunity. We want each employee to be proud of his company and proud of his contribution to it.

TO OUR STOCKHOLDERS:

Our objectives to our stockholders are to protect the safety of their investment in our company, to make their investment increase in value and to earn them a fair return on this value.

WPC INC. MANAGEMENT:

Edmonton sits pretty

The Los Angeles Times

EDMONTON, Canada—Estimates of the petroleum reserves beneath a giant new Canadian field called West Pembina are edging upward.

At hearings in Calgary before the National Energy Board, Amoco Canada Ltd., a subsidiary of Standard Oil Co. of Indiana, projected the area's potential at 1.5 billion barrels over the next 10 years.

That compares with total proved reserves of 6.25 billion barrels throughout Canada. And Amoco production vice president Tony Neidermayer added that those estimates could easily grow larger as exploration continues.

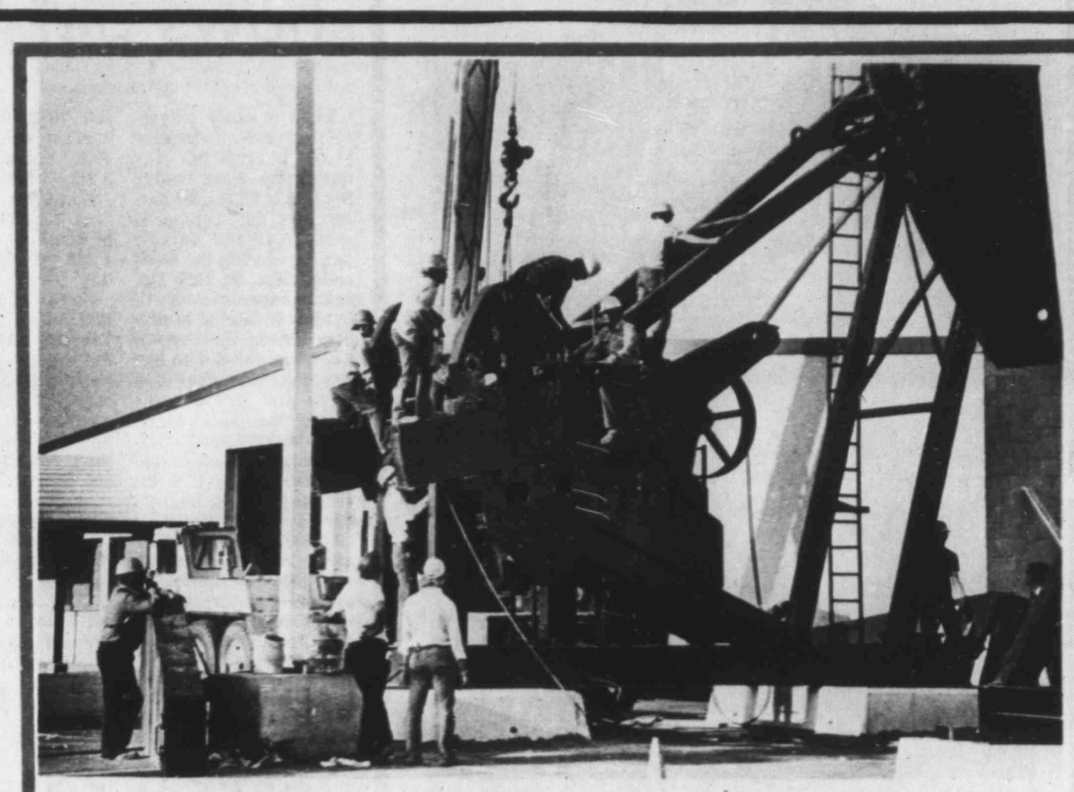
Industry officials say that area—about 900 square miles located 85 miles southwest of Edmonton in the eastern foothills of the Rocky Mountains—may be the most important new petroleum discovery in Canada during the past decade. It may be even bigger than the adjoining Pembina field, Canada's largest, where remaining reserves total 650 million barrels.

Speculation about the size of West Pembina has swirled throughout the petroleum industry for the past year and a half, ever since Standard Oil Co. of California drilled the discovery well that kicked off the search.

The only previous official estimate came from the Alberta Energy Resources Conservation Board, which set reserves at 500 million barrels.

At the Calgary hearings, Chevron Standard Ltd., the Canadian subsidiary of Cal Standard, said it would not confirm any number. "We are very encouraged with what we see to date," said president A. B. Bristow, "but I can't say there are 2 billion barrels of oil there. I hope so, but I can't say it's so."

Drilling and seismic crews from Canadian and U.S. companies have been pouring into West Pembina, reminding oil officials of the scene in Alaska after the North Slope discovery in 1968. North Slope reserves total about 9 billion barrels.



Workmen put finishing touches on pump exhibition at the Permian Basin Oil Show grounds in Odessa. The oil show gets underway Wednesday and will continue through Saturday, with more than 500,000 persons expected to walk through the turnstiles. The first two days of the show will be for oil industry and allied industry personnel. The last two days, Friday and Saturday, will be open to the public, and a final-day feature will be a barbecue served by the Odessa Chuck Wagon Gang. (Staff Photo by Ed Todd)

Company restructuring revealed

LOS ANGELES—Directors of Atlantic Richfield Co. have approved a restructuring of the operating units of the company and elected three senior vice presidents.

Effective next Jan. 2, eight units will be renamed and reorganized as companies that will be divisions of Atlantic Richfield or its subsidiary, the Anaconda company. The president of each company will also be a senior vice president of Atlantic Richfield Co.

Chairman Robert O. Anderson said the changes "will shift greater authority and responsibility to individual operating units and help develop a deeper reservoir of management talent for the future in light of the company's broadened operations. Our long-term objective is to assign maximun profit accountability to each function and its manager."

The newly designated companies and their activities are:

ARCO Petroleum Products, J.W. Simmons, president—refining and marketing of fuels, lubricants and waxes worldwide, including supply and distribution.

ARCO Chemical, R.M. Bressler, president—manufacture and marketing of chemicals and plastics worldwide.

ARCO Oil & Gas, B.J. Lancaster, president—exploration for and production of oil and gas on the North American continent, headquartered in Dallas.

ARCO Transportation, L.M. Cook, president—management of pipeline and tanker transportation and representation of Trans Alaska Pipeline interests.

ARCO International Oil & Gas, Paul Ravesies, president—exploration for and production of oil, gas and coal in foreign countries.

Seismic crews continue to increase worldwide

TULSA, Okla.—The number of seismic land crews and marine vessels searching for oil and gas worldwide continued to increase during the second quarter of this year, according to data released by the Society of Exploration Geophysicists.

Although there were declines in activity in several geographical regions, those were offset by a sizeable increase in seismic exploration in the United States during the period, although there was a slight decrease in activity in the U.S. in August, the first such decline since January.

The worldwide total of seismic crews and vessels active at the end of June (second quarter) was 738, an increase of eight vessels since the end of March (first quarter) total of 730. Totals for previous quarter are as follows: Third quarter 1976, 621; fourth quarter 1976, 621; first quarter 1977, 635; second quarter 1977, 626; third quarter 1977, 650 and fourth quarter 1977, 686.

The international survey reflects data reported on seismic oil exploration activity by 90 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

In the United states, the number of land crews and marine vessels active during August was 365, down two from the July total of 367. The July total was the highest since the second half of 1961. This August represents a 12 percent gain over August 1977, a 33 percent increase over August 1976, a 26 percent increase over August 1975 and a 14 percent gain over the same month of 1974.

Ector again top oil area

ODESSA—Historically, Ector County is one of the top oil and gas producing counties in Texas, and in 1977 the county again was among the top five, finishing the year as the fourth best in the state.

The Ector County yield was 62,364,428 barrels of oil, plus 134,590,133 thousand cubic feet of gas.

The oil was valued at a little more than half a billion dollars—$563,774,429. The gas was valued at another $121,669,480.

The state reaped a real harvest in taxes from the production, $35,058,835. Of that total, $25,933,624 was paid on the oil and $9,125,211 was paid on the gas.

Although wildcat activity in the county was light, 219 field and wildcat tests were drilled in 1977. Only four were wildcats, and half of those completed to open new oil pools. Seven of the 217 field projects were dry holes. Two were completed as gas wells and 208 were completed as oil producers and two as gas wells.

There is one oil refinery and four petrochemical plants in Ector County to go with that area's eight natural gasoline processing plants.

The oil refinery has a capacity of 32,000 barrels of oil per day. The gasoline plants process 793.2 million cubic feet of gas daily.

The oil industry is the biggest employer in Ector County. In 1977 there were 7,089 persons with jobs in the industry and they were paid $101,754,956.

New office now open

PEARLAND—Chance Collar Co., manufacturer of drill collars, subs, and stabilizers, has opened a new manufacturing facility in Pearland, Texas.

Located on a 50-acre site in the heart of the Gulf Coast producing area, Chance's plant is fully equipped with modern machine shop facilities for primary manufacturing and repair work. Chance's new plant is also conveniently situated to serve world markets through the ports of Galveston or Houston.

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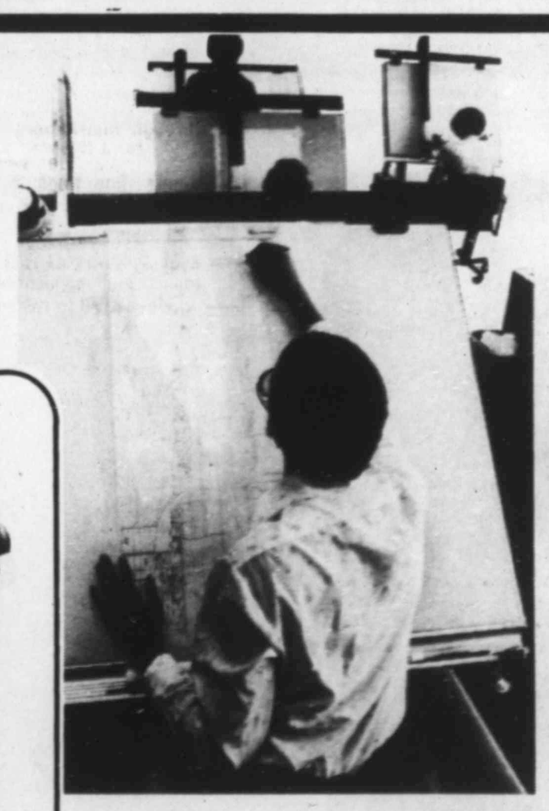

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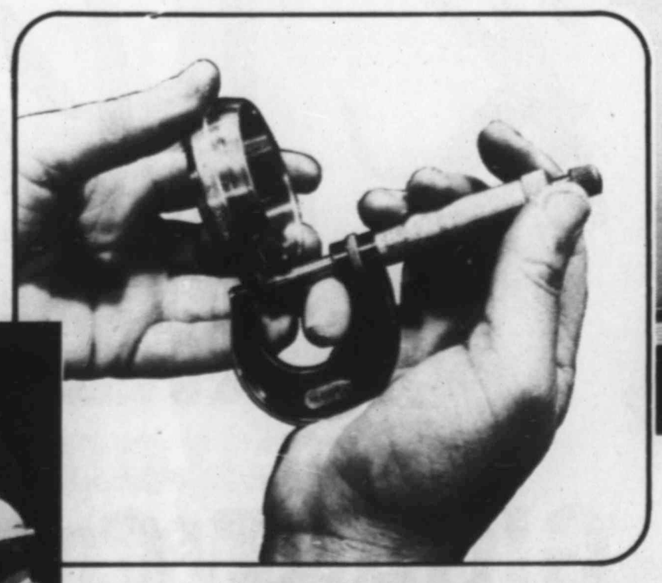

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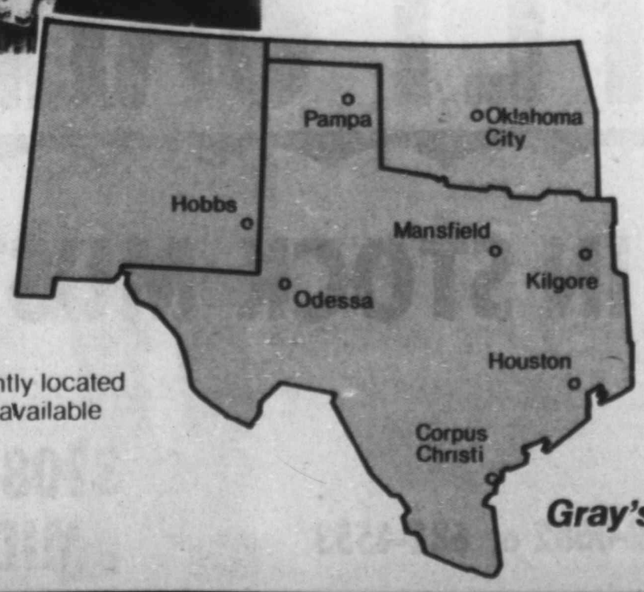

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Petroleum accounts for many products

(EDITOR'S NOTE: The following story was written by a member of the staff of the New Mexcio Oil & Gas Association.)

SANTA FE—At the turn of the century the petroleum industry's principal product was kerosene and the marketing process was fairly simple and direct.

The refineries delivered it to hardware and grocery stores in wooden barrels. Homeowners came by the stores with their own containers to pick up the quantities they needed. In some areas door-to-door peddlers made deliveries in small amounts from wooden tanks, mounted on horsedrawn wagons.

However, as time went by, science and industry found more uses for oil products. The demand increased and the task of supplying the myriad needs of oil consumers became more complex.

Today there are more than 3,000 different products made from petroleum requiring a variety of processes, machinery and facilities for handling, distribution, and storage.

The most familiar outlet is the service station.

But the service station is just one of many marketing places for products ranging from greases to liquefied gases. Airlines consume huge quantities of jet fuel. Petroleum-based liquid fertilizers are a necessity today. Waxes and asphalts and industrial oils, such as those for metal working, hydraulic systems, and transformers, all represent large markets for petroleum.

Petroleum marketing in the United States involves the delivery of about 16.5 million barrels each day of a wide range of oil products from refineries and storage points to consumers across the land.

The procedure for distributing gasoline and fuel oils, which are the industry's volume products, demonstrates the basic petroleum marketing channels. They involve facilities such as petroleum terminals and bulk plants, and personnel such as refiner-marketers and distributors.

A refiner-marketer generally sells his products under his brand name to distributors, fuel oil dealers, service station dealers and consumers. He may, however, sell unbranded products to distributors, fuel oil dealers and service station dealers who then market the products under their own brands.

Petroleum terminals are large distribution centers where petroleum products are received, generally by pipeline, marine tankers or barge. In some remote parts of the country, gasoline and fuel oil are transported to terminals by railroad tank cars or truck transports.

Petroleum marketing has some rather unique characteristics.

First, oil products are almost constantly on the move. The crude oil first moves from producing fields to refineries. From refineries oil products move to distribution and storage points, and then quickly to consumers. The flow generally must continually if the ultimate customers are to be served effectively.

Second, except for the relatively small percentage of the crude oil that is used to make such products as fibers, plastics, waxes and asphalts, consumers seldom see the petroleum products they use.

Homeowners have their heating oil tanks filled, motoists buy gasoline, and truckers fill up with diesel fuel without ovserving the product they are purchasiing. The customer has faith in the ability of the manufacturer and supplier to provide products that will satisfy his requirements.

Finally, the demand for fuel oil, which is one of the industry's principal products, is highly seasonal. Marketers must plan ahead, storing up fuel oil in the summer to take care of peak levels of demand during the winter months.

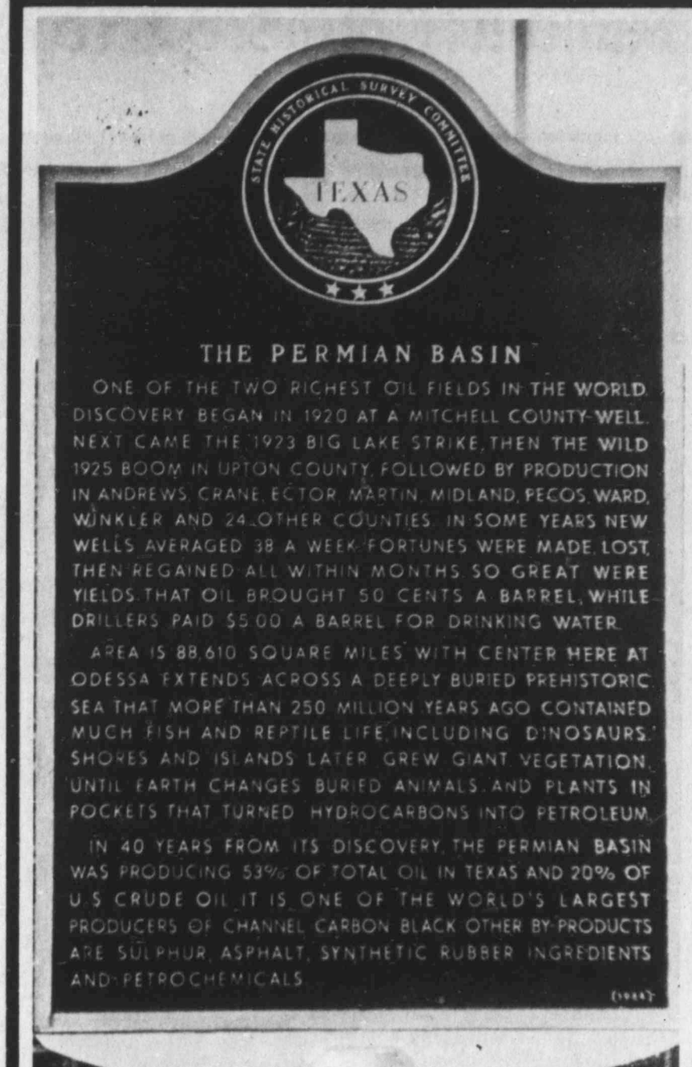
Each of the many hundreds of petroleum products has its own flow pattern from refinery to customer.

The methods for marketing the variety of petroleum products are almost as varied as the products themselves. Motor oils and greases are packaged in drums and smaller containers which are then shipped in trucks and boxcars to customers or intermediate storage facilities. Industrial oils are sometimes shipped in bulk or in very large containers, as well as in drums.

Terminals store and redistribute products to petroleum bulk plants, wholesale distributors, fuel oil dealers, service stateions and large consumer accounts.

Shipments out of terminals are mostly by truck transports (8,000 to 10,000 gallons), tank trucks (1,500 to 3,000 gallons) or railroad tank cars. Occasionally a very large consumer account, such as an airport, is served directly by a pipeline from the terminal.

Bulk plants are smaller than terminals. They receive shipments of petroleum products by truck transport or rail either from refineries or terminals. Bulk plant operators redistribute these products by tank trucks to large commercial accounts, homeowners, farms, and gasoline service stations.



This historical marker, put up by the State Historical Survey Committee, can be found on the Permian Basin Oil Show Grounds in Odessa. It traces the history of oil in the Basin from the first commercial strike in Mitchell County.

Oil refinery work to start

SAN ANTONIO—Gulf Energy & Development Corp. and Metaloil Corp. of Houston have announced plans to build a 10,000-barrel-per-day oil refinery at the Port of Brownsville.

The refined product slate will be naptha, kerosene, and catalytic cracker feedstock.

Gulf Energy Refining Corp. of San Antonio (a wholly-owned subidiary) will own 65 percent of the refinery and will be the operator and Metaloil Corp. of Houston will own 35 percent. James L. Walker is the owner and president of Metaloil.

T. H. Russell & Co. of Tulsa, Okla., is the contractor for the construction which is scheduled to commence in November.

The tankage and most of the site improvements already are in place; therefore, the erection time has been reduced substantially.

The refinery is scheduled to be completed and in production by March 1979.

Intrastate Gathering Corp., another wholly-owned subsidiary of Gulf Energy & Development, will deliver and sell natural gas to the refinery to provide the necessary fuel.

Processing unit imput shows per day climb

Input to crude oil precessing units increased 51,000 barrels per day during the week ending Sept. 29 to 15,305,000 barrels per day compared with 15,318,000 barrels per day during the week ended Sept. 30, 1977. Operable capacity was utilized at a rate of 90 percent during the current week compared with 89.9 percent the previous week and 92.7 percent during the week ended Sept. 30, 1977.

Production of motor gasoline in the U.S. increased 103,000 barrels per day during the week to 7,332,000 barrels per day. During the week ended Sept. 30, 1977, production of motor gasoline was 6,990,000 barrels per day. Production of distillate fuel oil during the current week decreased 49,000 barrels per day to 3,242,000 barrels per day. During the week ended Sept. 30, 1977, production of distillate fuel oil was 3,278,000 barrels per day.

Stocks of motor gasoline in the U.S. increased 1,069,000 barrels during the week to 218,748,000 barrels. On Sept. 30, 1977, stocks of motor gasoline were 248,181,000 barrels. Stocks of distillate fuel in the U.S. increased 3,799,000 barrels during the current week to 210,920,000 barrels. On Sept. 30, 1977, stocks of distillate fuel oil were 245,795,000 barrels.

Total imports of crude oil into the U.S. increased 83,000 barrels per day during the week to 6,444,000 barrels per day. Crude oil imports into Districts 1-4 increased 213,000 barrels per day while receipts into District 5 (West Coast) decreased 130,000 barrels per day.

Total imports of refined products into the U.S. increased 87,000 barrels per day during the week to 1,916,000 barrels per day.

Total stocks of crude oil in the U.S. increased 669,000 barrels to 326,337,000 barrels. Stocks by location increased 1,008,000 barrels in District 2, and 1,085,000 barrels in District 3. Stocks decreased 714,000 barrels in District 5 and 710,000 barrels in District 1 and 4 combined.

University research vessell returns home

AUSTIN—A University of Texas geophysical research vessel has returned from a four-month cruise with data that could provide some fundamental answers to questions about the structure, origin and development of the earth's Middle America area.

That region, which stretches about 2,000 miles north-south along the western coast of Central America, is an area of controversy in the current concepts of plate tectonics and continental drift.

The 135-foot research vessel Ida Green of UT's Marine Science Institute Geophysics Laboratory at Galveston conducted its cruise in the western Caribbean and off the west coast of Central America as far north as Acapulco, Mexico.

Results from the cruise will be analyzed and published in the coming year, according to Dr. J. Lamar Worzel, one of the five chief scientists for the voyage and director at the Galveston laboratory.

The research work included seismic acoustic measurements and measurements of the earth's magnetic field which are the geophysicists "X-rays" for observing the earth's crustal structure.

Researchers aboard the Ida Green also collected coring and dredging specimens for detailed geologic investigations of the ocean floor.

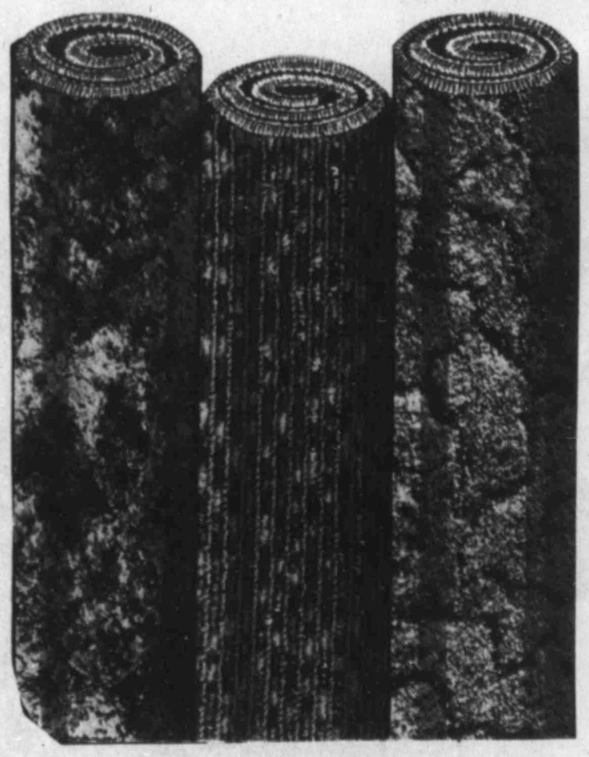
Another portion of the cruise was a six-week investigation of drill sites off Guatemala and Oaxaca, Mexico, for the International Project of Ocean Drilling.

Other chief scientists for the various portions of the voyage were Drs. John L. Ladd, Thomas H. Shipley, Kenneth McMillen and Mark H. Houston of the Galveston Geophysics Laboratory. Five UT students and six staff members also participated.

Arizona's time near

PHOENIX, Ariz.—It could be that Arizona's time to really enter the realm of oil producing states is nearer. If leasing activity in 1977and early 1978 is any criterion, the time IS near.

Anschutz Corp. has acquired 5 million plus acres of oil and gas leases in 11 of Arizona's 14 counties.



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Containment dome catches USSR visitor's eye

By THOMAS O'TOOLE
The Washington Post

NOVOVORONEZH, U.S.S.R. — The first thing visitors notice about the largest nuclear power complex in the Soviet Union is a containment dome taking its final shape around the fifth nuclear power reactor to be built here, 300 miles south of Moscow on the banks of the River Don.

Made of steel and concrete and standing almost 250 feet high, the containment dome will be completed next month in time for the December commissioning ceremonies for the 1 million kilowatt nuclear plant it encloses.

That will make it the largest nuclear power plant of its kind in the Soviet Union. But what really makes it unique is that it is the first to be built with containment to isolate any dangerous radioactivity that might escape from the reactor in the event of a serious accident.

Never before in the 24 years the Soviet Union has been building nuclear power stations did they put a containment dome round a single one of the 29 previous reactors.

Almost all the 151 nuclear stations operating in 20 countries around the world operate inside containments. All 71 of the nuclear plants in the United States were built with containments. Without them, they could not have obtained a license to operate from the Nuclear Regulatory Commission.

If nothng else, the lack of containments illustrates the Soviet approach to nuclear safety which might best be described as "different."

None of the workers in Soviet nuclear plants wear the dosimeters so familiar elsewhere in the world to measure accidental exposure to radiation. Visitors are routinely brought into the rooms housing Soviet reactors. A touring group of American journalists last week was taken to the top of a small reactor in Moscow's Kurchatov Institute, where the only thing that stood between them and the eerily beautiful blue glow of the reactor's burning uranium was 15 feet of water.

The tour was arranged by the Atomic Institute Forum, a Washington trade association made up of major nuclear suppliers including Westinghouse and General Electric.

The worst possible accident the Soviets equip their nuclear plants to expect is a single break in the largest pipe carrying cooling water to the reactor. U.S. plants are built with complete emergency cooling systems to handle simultaneous breaks at both ends of the same pipe, a remote accident, to be sure, but one that could result in such a sudden loss of cooling water that the uranium fuel might overheat and even melt its way through the floor of the reactor.

A melting of the core is considered "impossible" in the Soviet Union, where the approach to safety is to take the utmost care in construction and to back up pumps and valves with redundant spares and emergency generators to supply power if the main electrical system fails.

The Soviets are proud of their nuclear safety record. They have run four small nuclear plants under difficult conditions without an accident at Bilibinska, in the permafrost region of Magadan. Two months ago, they kept running a much larger plant in Armenia without damage during an earthquake. Soviet safety experts claim they now have the euivalent of 2,000 years of nuclear operating experience without a "single major failure."

When they built the reactor for the first nuclear icebreaker Lenin, Soviet engineers tested it out in the shipyard where the icebreaker was being built to convince the workers and crew members of its safety.

"How save was it?" asked chief nuclear safety engineer Yuri Sivintsev at theKurchatov Institute in Moscow. "In 1969, the Lenin collided at full speed with an iceberg that tore a hole in the ship one meter wide. Plates and dishes broke and I suffered a bad bruise on my head but the reactor went right on working."

Here at Novovoronezh the other day, plant director Vitaly Sedov told the American journalists that the plant was that day celebrating the 14th anniversary of its first reactor, a 210,000-kilowatt unit started up in 1964. Later reactors were built in 1969, 1971 and 1972 that together generate another 1,240,000 kilotwatts. Sedov said there has not been a single fuel leak in any of the four reactors.

"The worst experience we have had here happened to a turbine, not the nuclear reactor," Sedov said. "We had to shut down one of the units for one month but it was to fix the turbine, not the reactors."

Nevertheless, the Sovietrs are feeling a little sensitive about not having containments anywhere else but the fifth reactor at Novovoronezh. Plant director Sedov led the visiting journalists on a tour of the turbines in the older parts of the plant but did not offer them entrance to the reactor room right next door.

Why are the Soviets building a containment around the fifth reactor at Novovoronezh? Why did they add $30 million and six months construction time to a project that has alrady taken six years? Sedov and construcion director Dmitri Vprosorovski say simply that the order to add a containment to the fifth reactor came from Moscow.

American observers think the containment was built at the fifth Novovoronezh unit because of the its size. At 1 million kilowatts, it will be the biggest pressurized water reactor in the Soviet Union and the prototype for many plants still to be built. The turbines, the pumps, the valves, the steam generators and the cooling pipes are all bigger than the machinery built for smaller plants.

Another reason, according to Western experts, is that the Soviets want a larger share of the export market. They have exported plants to Finland and most of the East Bloc countries but lost bids in Yugoslavia and Romania because those two countries would only buy plants with containments.

The Soviets are proud of their nucler safety record. They have run four small nuclear plants under difficult conditions without an accident at Bilibinska, in the permafrost region of Magadan.

The Novovoronezh complex lies less than 2 kilometers (1.2 miles) from the town of Novovoronezh, whose population is now 25,000 and on its way to doubling. There is a story told here that the mayor of Belyoyarsk in the Ural Mountains asked the authorities to locate their first nuclear plant further out of town than they planned and they obliged. The plant is four kilometers from town instead of two.

Soviet fishermen represent the only group in the country that has successfully put pressure on nuclear planners. The first two plants built at Novovoronezh took their cooling water right from the river Don but a regulation was immediately made that the discharge water could heat up the river by no more than 9 degrees Fahrenheit at the point of discharge and no more than 6 degrees half a kilometer downstream to protect the fish in the river.

The next three plants were built with enormous and expensive cooling towers, that recycle their own water, which they get from wells. The fifth and largest plant nearing completion is being built with its own artificial lake, whose surface measures five square kilometers (two square miles).

The Soviets do not think the disposal of atomic wastes is anywhere near as serious a problem as it is made out to be in the United States, though they appear no closer to a permanent solution.

They refuel their nuclear plants once a year, then place the removed spent fuel in "swimming pools" filled with water where they are kept for three years to cool off. The spent fuel is then placed in steel casks and taken on railroad cars to what is apparently an away-from-reactor storage site at an unidentified location.

At Armyansk and Dimitrovbgrad, liquid wastes are being pumped into layers of clay 1,500 to 6,000 feet in the ground. The Soviets say there is no water in clay to leach the wastes away from their burial sites but also admit the wastes they are pumping into the earth are not the "hot" wastes containing the most dangerous or long-lasting levels of radioactivity.

Where and how they will dispose of the hot wastes is still under discussion at places like the Kurchatov Institute, where most questions of nuclear safety are resolved. Just as in Europe, American and Japan, abandoned coal and salt mines are among the prime candidates for the permanent burial of waste. The Soviets insist they see no inherent danger in the burial of nuclear waste if it is done right.

"There is a uranium lode in Gabon in Africa that has conducted its own natural chain reaction for almost 2 million years," Sivintsev told the visiting journalists. "None of the radioactive wastes from that natural reactor has harmed anybody in that time."

Salaries of workers highest uncovered

DALLAS—The average annual compensation for the lowest paid helper in the oilfield as surveyed by A.S. Hansen, Inc., is higher than that paid entry level accountants in the energy industry.

The findings were part of the unexpected results of the study completed for the fourth year for participants by Hansen, international compensation and benefits consultants.

Philip G. Henderson, vice president for compensation, released a few comparisons from offices in Dallas. he stated that the study indicated a "utility helper B" is paid an annual base rate of $13,460 ($6.47 per hour) while recently hired college graduate "accountant I" makes $12,000.

Fifty-seven companies prticipated in the confidential survey on salary, incentive and perquisite and benefits information covering 100 different positions.

Mr. Henderson noted no significant differences in geographical ares for most positions, although the survey covered companies in New York, Maryland, West Virginia, Michigan, Illinois, Florida, Montana, California and of course all of the Southwestern states.

The Oil and Ga Survey indicated other entry level positions for energy specialists fared better than the accountants, with entry level production engineers earning a base salary of $20,600, landman, $17,450 and geologist, $18,900.

Participants are able to compare elements of their own compensation packages to industry norms, using data analyzed by company size, location and scope criteria relevant to each position.

Companies surveyed ranged in size from les than $5 million in annual sales to serveral billion.

Tax rates hold steady

CHICAGO, Ill.—Although a majority of states have enacted gasoline tax rate increases over the last 10 years, 11 states have maintained a constant gas tax rate during the same period, according to Commerce Clearing House (CCH).

What is more, CCH noted, the rate of increase appears to have slackened so far this year.

Resisting the rush to raise gasoline levies in the decade were Alabama, Alaska, California, Nevada, New Mexico, Ohio, Oklahoma, Oregon, Tennessee, Texas and Wisconsin.

During 1978, gasoline taxes have been lowered in Delaware from 11 to 9 cents per gallon. Measures to increase Oregon fuel taxes from 7 to 9 cents per gallon and Missouri fuel taxes from 7 to 10 cents per gallon were overwhelmingly defeated by the voters.

Gasoline tax increases have occurred in only three states so far in 1978. Iowa's tax rose from 7 to 8.5 cents per gallon; the tax in Utah went from 7 to 9 cents per gallon, and the rate in West Virginia rose from 8.5 to 10.5 cents per gallon. Washington continued its 11 cent rate through December.

Washington and Connecticut have the highest gasoline tax, 11 cents per gallon.

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Oil field hands may be tough 'n' rough. But, contrary to what seems to be, they are not Supermen. Dean Cox, left, and Keith Walters, both of Odessa, handily lift a light-weight (about 100 pounds) wooden model of a 4,000-pound counterweight for a Lufkin Industries pumping unit at the Permian Basin Oil Show and Exposition. Cox works for Ruthco, which sets up oil field pumping units. Walters is a service representative of the Lufkin-based pumping unit manufacturer. In the background is an air-balanced unit, which reaches to 50 feet at peak of the horsehead's swing. (Staff Photo by Ed Todd)

Land of oil, gas also has abundance of coal

EDITOR'S NOTE: The following story was prepared by the League News Service of the League of Women Voters of Texas Education Fund as a public service to promote an informed citizenry in Texas.

Texas is known as the land of oil and gas.

But did you know it also has healthy deposits of coal?

Indeed, by 1985, Texas could be the 8th largest coal-producing state in the nation.

Although oil and natural gas currently supply more than 95 percent of the state's energy needs, Texas has begun a rapid conversion to coal in the face of the ever-present energy crunch.

Under Texas' soil lies an estimated 10 billion tons of lignite coal at depths recoverable by strip mining techniques.

Those deposits extend from South Texas, northeasterly across the state, and into Arkansas and Louisiana. Much of this natural resource is thus close to the energy demand centers of the Gulf Coast and Central and North Texas.

This proximity is important. Because it takes more lignite than other types of coal to produce the same amount of energy and because lignite is quite volatile, the distance over which it is economically feasible to transport this natural resource is limited.

The nearness of Texas' lignite deposits to demand centers means mine-mouth conversion facilities and short-distance transportation are possible.

Several other factors in the location of the state's deposits favor the mining of lignite in Texas. Gently rolling topography, adequate rainfall, and the overlying soil type all lead to easy strip mining and minimize the difficulty and cost of land reclamation.

In addition, although lignite deposits do not form a continuous band throughout the state and although seams are 4 to 8 feet thick compared to 60-foot seams in Western coal deposits, there are individual deposits in excess of 200 million tons. This will support the economic life of a 1,000 megawatt power plant.

That is the bright side.

Although they are outweighed by the positive, some problems do exist in using lignite coal as a boiler fuel.

Transportation costs are high. The lower heat content of lignite necessitates the use of a large boiler and handling equipment which ups the cost of building generator facilities.

And pollution has not been totally conquered.

In addition, the chemical makeup of the fly ash from burning lignite resists the usual means of controlling this type of pollution. Continuing experiments at Texas Utilities' Monticelly Plant may overcome this difficulty.

The energy industry is optimistic about solutions to these problems. As early as 1954, Alcoa opened a lignite mine near Rockdale for generating electricity for use in aluminum processing. The Sandow Plant was the first major mine-mouth power plant in Texas and has a capacity of 360 megawatts.

In 1971, Texas Utilities inaugurated the Big Brown Plant near Fairfield, consisting of two 575-megawatt units supplied with lignite from a company-owned and operated surface mine near the plant. Texas Utilities has subsequently opened the Monticello Plant near Mt. Pleasant.

Lignite has other uses, too. It has significant potential as a feedstock for the chemical industry, replacing oil and natural gas. Lignite gasification is also a distinct possibility in the near future.

It is estimated that as much as 60 percent of the state's future coal demand can be met by Texas lignite.

Texas is known as the land of oil and gas. Before long it may also be known as the land of coal.

Council announces Gas Sources body

WASHINGTON—National Petroleum Council Chairman Collis P. Chandler Jr., announced the appointment of the NPC Committee on Unconventional Gas Sources. The committee, formed in response to a request from Secretary of Energy James R. Schlesinger, will prepare a draft report for consideration by the membership of the National Petroleum Council.

Secretary Schlesinger requested that the study include an assessment of the resource base and state-of-the-art of recovery technology for the following unconventional gas sources: deep geopressurized zones, Devonian shale, tight gas sands and coal seams. It will also include an examination of potential costs and recovery and the impact of government policy on these potentials.

John F. Bookout, president and chief executive officer, Shell Oil Co., Houston, Texas, will chair the committee. Honorable Robert D. Thorne, assistant secretary of energy for Energy Technology, will serve as government cochairman of the group. Meetins of the committee are announced in the Federal Register and are open to the public. The first meeting of the committee was held on Tuesday, Sept. 26, 1978, at 9:00 a.m. in the Columns Auditorium, Two Houston Center, 909 Fannin Street, Houston, Texas.

The National Petroleum Council is a federal advisory committee to the Secretary of Energy. From 1946 until the implementation of the Department of Energy Organization Act of 1977, the council served as an advisory group to the Secretary of the Interior.

The committee members are:

Howard W. Blauvelt, chairman and chief executive officer, Continental Oil Co., High Ridge Park, Stamford, Conn.

Howard Boyd, chairman of the board, The El Paso Co., Houston, Texas.

John A. Carver Jr., director of the Natural Resources Program College of Law, University of Denver, Denver, Colo.

Edward W. Erickson, professor of economics and business, North Carolina State University, Raleigh, N. C.

John S. Foster Jr., vice president, Energy Research and Development, TRW, Inc., Redondo Beach, Calif.

Charles J. Hitch, president, Resources for the Future, Washington, D.C.

H. D. Hoopman, president and chief executive officer, Marathon Oil Co., Findlay, Ohio.

George F. Kirby, chairman and president of Texas Eastern Transmission Corp., Houston.

Floyd W. Lewis, president, Middle Southern Utilities, Inc., New Orleans, La.

W. C. McCord, chairman and president of Enserch Corp., Dallas.

Cary M. Maguire, president of Maguire Oil Co., Dallas.

W. F. Martin, chairman of the board and chief executive officer, Phillips Pertroleum Co., Bartlesville, Okla.

John G. Phillips, chairman of the board and chief executive officer, The Louisiana Land & Exploration Co., New Orleans.

Robert E. Seymour, chairman of the board of Consolidated Natural Gas Co., Pittsburgh, Pa.

Elvis J. Stahr, president of the National Audubon Society, New York City.

W. A. Strauss, chairman of the board and chief executive officer of Northern Natural Gas Co., Omah, Neb.

Stephen A. Wakefield, with Baker & Botts, Houston.

API supports alcohol for fuel use

WASHINGTON, D.C.—The American Petroleum Institute has reiterated its support for further research into the production and use of alcohol fuels in written testimony submitted to the Senate Energy Committee's Subcommittee on Research and Development.

Alcohols are versatile chemicals that have a wide variety of potential uses as fuel and chemical feedstocks," the API statement said. "As fuel, alcohols have desirable properties such as high thermal efficiency and high octane. As chemicals, alcohols made from coal and agricultural and forestry products could replace alcohols made from petroleum, thus releasing the petroleum to fuel markets."

Petroleum companies, the statement said, have been interested in alcohols since the 1920s, but have not marketed them as motor fuels, "because they have been and continue to be more costly than the available alternatives relative to their advantages as motor fuels.

"Each time companies have become seriously interested in the advantages of ethanol or methanol as gasoline blending components, less expensive octane improvers or improved processing techniques, such as catalytic reforming, have been developed."

The API said various technical problems associated with the production and use of alcohols as components of gasoline have also been a factor, and that while these problems may not be insurmountable, the cost of their solutions would be reflected in the price of motor fuel.

The API testimony included preliminary results of industry-contracted research, confirming a number of non-industry studies, showing that the production of alcohols from grain creates a negative energy balance.

"It already seems clear that almost two energy units must be invested to yield one in the form of ethanol from grain sources, while ethanol from sugar cane looks like a break-even energy balance," the API reported.

"We are concerned that these processes as they now exist are highly energy intensive, and the energy supplied (at least in most cases in the United States) comes from petroleum and natural gas, those very resources the nation is trying to conserve."

The API statement emphasized that the petroleum industry does not oppose the development and use of alcohols as motor fuels. It said that the most efficient uses of alcohols may be for purposes other than in blends with gasoline.

For example, the use of straight alcohols in stationary gas turbines or in specially designed vehicle fleets would make optimum use of alcohol's inherent combustion advantages, the Institute said, and direct burning of biomass such as agricultural wastes for boiler fules may be a possibility.

The API said it does oppose governmental mandating of the sale and/or use of alcohols as fuels.

"Under current conditions, mandating would force a higher-priced product on consumers without taking into consideration the best and most economical uses of alcohols and other fuel options.

If and when ethanol and methanol become cost competitive as motor fuels, petroleum companies will market them."

Mud will have little effect on sea areas

ATLANTIC CITY, N.J.—Drilling mud used in Atlantic Ocean offshore oil and gas drilling operations and then dumped into the sea will have little or no adverse effect on the marine environment, a geologist said.

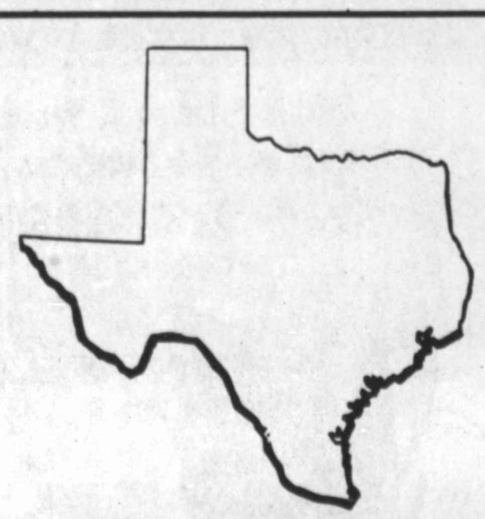
Testifying before a Bureau of Land Management hearing on proposed oil and gas leasing in the Baltimore Canyon region of the Mid-Atlantic, Dr. Richard P. Zingula, senior exploration geologist, Exxon Co. U.S.A., described the effect on the marine enviroment drilling mud, a mixture of clay, water and chemical additives which is circulated through the drill pipe to cool the rapidly rotating bit and also serves as a plaster to prevent the wall of the bore hole from collapsing.

Dr. Zingula said he has been bringing together data from more than 125 published and unpublished reports on the effects of offhsore drilling on the marine environment and has been studying the subject in depth for the past year.

"The conclusion which must be drawn from these data is that normal drilling operations will hve little or no short of long term adverse effect on the marine environment in the Baltimore Canyon area," he said.

Dr. Zingula explained that when a drill hole is prepared for either production or abandonment, the drilling mud is usually dischrged into the sea. He said that that could be a maximum of 1,200 barrels. He aded that it is at that time that the drilling mud will have the most additives.

"However, the many studies which have been made on the toxicity of whole drilling muds and mud components, and studies of rates of settling, dispersion and dilution of the mud in the ocian all indicate little or no adverse effect from any of the discharges," he said.



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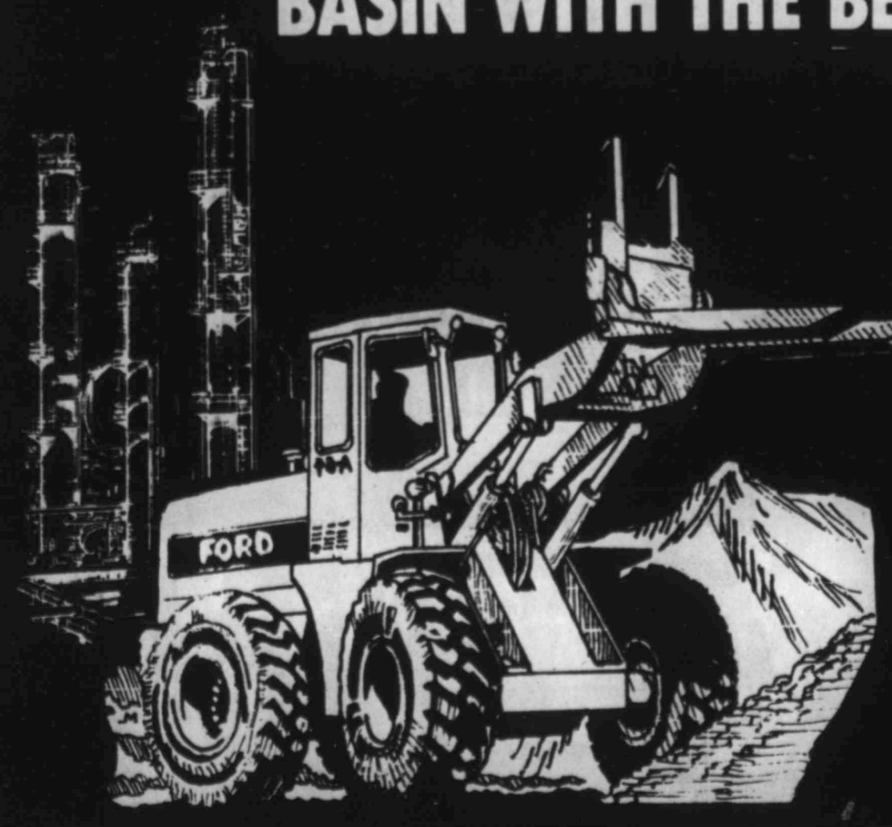

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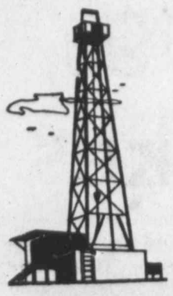

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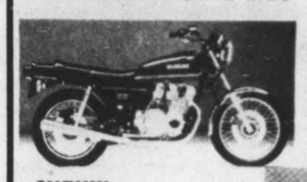
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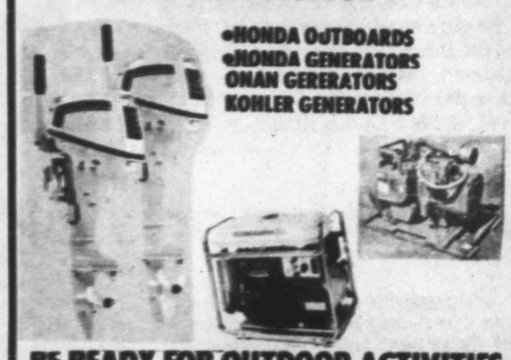

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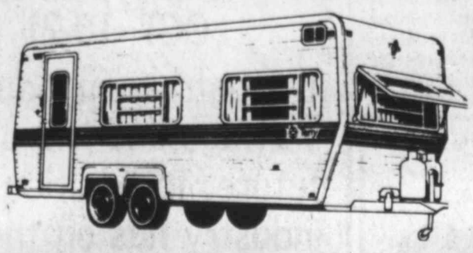

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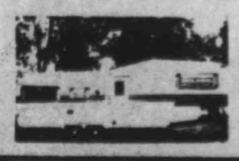

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ALL "OIL SHOW" VISITORS INVITED TO THE "R.V. SHOW" ON SECOND STREET

Last-hour touchup with paint is performed by workmen on outside exhibit at the Permian Basin Oil Show grounds in Odessa. The huge show, billed as the largest of its kind in the world, will feature many outside exhibits as well as hundreds of booths inside the Ector County Coliseum and in other buildings. One of the features of the oil show will be a parade in downtown Odessa Friday morning.

Europeans recovering slowly from price hikes

LONDON—Europeans are recovering slowly but painfully from the increases in oil prices that followed the 1973 Middle East War. But the lives and standards of millions of them have been transformed.

An Associated Press survey of 13 countries from the Atlantic to the Urals shows:

—Europeans are living and working in colder homes, offices and factories to save fuel. France and Italy, for instance, have imposed temperature limits of 68 to 70 degrees in homes and offices while the Dutch government has urged its citizens to wear sweaters rather than turn up the heat.

—Sales of automobiles slumped in most European countries from 1974 to about 1977 but now are beginning to rebound in better-off regions. This was because prices of buying and running new cars soared.

—In some countries people garaged their autos and took bicycles to work, saving their gasoline for weekends and vacations. That was mainly because gasoline prices skyrocketed almost everywhere after 1973. In West Germany, for example, a gallon of gasoline rose 23 percent, to about $1.87, while in Britian it went up 104 percent, to about $1.25 per U.S. gallon. By contrast, Americans, whose gasoline prices also went up, now pay 62.5 cents to 69 cents a gallon.

—The hike in oil prices produced a global recession that hit industrialized Europe especially hard. Key industries slowed output because of fuel shortages and high costs. Small firms went out of business. Money lost its value as world trade suffered. Millions of Europeans were thrown out of work. In the nine-nation Common Market, unemployment rose from 2.5 million in 1973 to 5.8 million last spring.

—Europeans also have had to contend with inflation that, in countries such as Britain and Spain, at times hit an unnual rate of 25 percent. This meant people had to dip into savings or take second jobs to cover the costs of food, housing, clothing and transportation. The jobless filed for welfare, obliging most governments to divert funds from defence, schools, roads, hospitals and public works.

—Just about every country outside the Soviet Union cut back on oil imports. the Soviets export fuel and have brought their prices more or less into line with those charged by the 13-member Organization of Petroleum Exporting countries, even to their East European allies. This is because Moscow needs the foreign exchange to pay for Western technology to develop resources in Siberia and elsewhere. Britain and Norway, enjoying the bonanza of North Sea oil and gas, were able to reduce imports by 50 percent and 42 percent, respectively.

The hike in oil prices produced global recession that hit industrialized Europe especially hard. Money lost its value as world trade suffered. Millions of Europeans were thrown out of work.

All of that began with the outbreak of the Yom Kippur was Oct. 6, 1973. Middle East oil producers reduced output as a way of compelling Western nations to refrain from helping Israel. The U.S. and Dutch governments, considered by the Arabs to nurse pro-Israeli sympathies, were denied supplies completely. A series of price increases beginning Oct. 16, 1973, through to last year, raised the cost per barrel of oil from $2.90 to 12.70.

Major economic and political developments followed affecting the lifestyles not only of Europeans but of people elsewhere.

Developing countries dependent on the export of raw materials, for instance, tried to copy OPEC. Costs of such primary products, especially minerals and foods, went up.

With costs of imports rising Europeans had to pay more for just about everything. But then the costs of their goods shot up, too. Today London, Paris, Bonn, Brussels, Rome, Stockholm, Copenhagen, and Amsterdam are among the most expensive capitals in the world.

Exonomic difficulties generated by the oil price hike produced political upheavals that also affected the way Europeans now live.

In Italy, the economic crisis forced the long-governing Christian Domocrats into a pact with the Communists. In Denmark and Sweden, disputes over energy policy changed governments. Across Europe, environmentalists opposed state plans to switch to nuclear power.

From changing food habits to lower speed limits, Europeans today are inundated by their governments with schemes and subsidies to save fuel. A whole range of research projects designed to develop alternative energy sources are in train. Britain is spending nearly $900 million in such research and development and in conservation programs.

Well completions show 12 percent increase

DENVER, COLO.—Completions of wells drilled for oil and gas in the United States through the first nine months of this year are nearly 12 percent ahead of the nine-month total for 1977.

Through September, 34,981 completions were recorded, according to Petroleum Information Corporation. This total compares with 31,248 in the first three quarters of last year, a gain of 11.9 percent. Two thirds of the wells completed this year are producers.

The 9,017 gas wells completed through September represent an increase of 24.5 percent from last year. Emphasis on gas prospects continues strong.

This year completion total included 14,220 wells completed a oil producers. This is an increase of 4.7 percent over last year's first nine months.

Exploration...wells drilled in search of new fields...also is running well ahead of year-ago figures. Through September, 5,091 new field wildcats were completed, a gain of 12.9 percent from 4,509 completed through September of 1977.

These new field wildcats resulted in 439 discoveries and 457 new gas fields. The overall wildcat success ratio was 17.1 percent, down slightly from the 18.7 percent record of 1977, but still comparing favorably with ing term industry performance, according to Petroleum Information.

Wells completed this year accounted for nearly 167 million feet of hole, up 12.7 percent from just over 148 million feet in 1977. The greater percentage-wise gain in footage as compared to the gain in completions reflects an increase in average total depth of wells this year. Average total depth during the first nine months of the year was 4,772 feet, 30 feet more than in the 1977 period.

Texas is the leading state in drilling activity, with 12,120 completions through September. Oklahoma is second with 4,099; Kansas third with 3,054; Louisiana fourth with 2,680 and California fifth with 1,842.

Projection of drilling, using a historical basis, would indicate that between 49,000 and 50,000 completions will be tallied by the end of 1978. Petroleum Information pointed out, however, that the high level of rig activity continues and that many wells have completed drilling and are awaiting completion rigs before their final status is determined. This would indicate that earlier predictions that 1978 may be the first 50,000 well year since the late Fifties remain reasonable.

Petroleum Information, a wholly-owned subsidiary of A.C. Nielsen Co., Northbrook, Ill., offerss reporting services, data and data analysis services, maps, logs and technical exploration and engineering as vices to the petroleum and related industries.

C. T. Metz elected

CHICAGO—Clyde T. Metz, a 26-year veteran of the petroleum industry, has beenelected vice president—Exploration and Production, for the Natural Gas pipeline Co. of America, a subsidiary of Peoples Gas Co. of Chicago.

Metz joined the pipeline firm from Standard Oil Co. of California where he held a number of key positions, most recently as exploration-manager of the Delta Division of Chevron Oil Co. of New Orleans.

In that capacity, he was responsible for basic exploration, economic evaluation, and wildcat drilling of on- and off-shore areas of the Gulf Coast region.

Prior to that, he served as Chevron's chief evaluations geologist, establishing competitive bid strategies for leasing of off-shor tracts.

He also served as reserves engineer on the staff of the vice presidentt-Production for Standard of California.

Roasting process starts

HOUSTON—IMCO Services, a division of Halliburton Co., has opened a new barite beneficiation plant near Anara, Brazil. The plant pioneers a new "roasting" process and serves as a prototype for similar plants under construction by IMCO Services in Mexico and Nevada.

The plant, with an annual production capacity of 35,000 metric tons from Brazilian mineral reserves, can supply most of Brazil's current barite requirements. The "roasting" process allows utilization of barite produced as a flotation by-product from other mineral recovery systems.

In plant opening ceremonies, C. P. Loucks, president, IMCO Services, noted thate "the basic roasting process employed in the plant is not new, but several production innovations enable the plant to produce oilfield-grade barite," Loucks said. "Therefore, we see in this plant a whole new range of opportunities for barite production while helping conserve the world's remaining barite supply. That is a valuable contribution to the international drilling industry."

IMCO Services, headquartered in Houston, is an international supplier of drilling fluids products and related services for the petroleum and natural gas drilling industry.

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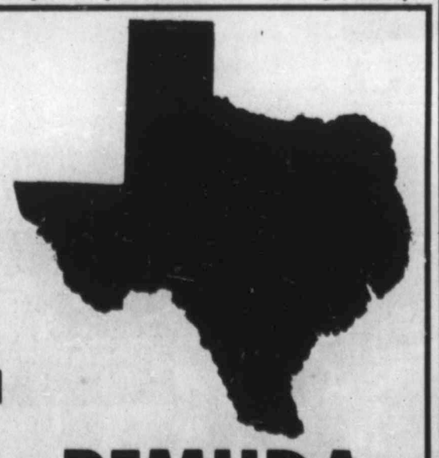

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Surge started in 1973 shows no signs of slowing

TULSA—A surge of drilling that has swept the world since 1973 shows no signs of weakening, the Oil & Gas Journal reports.

From 1973 to 1976, last year for which non-Communist well-completion statistics are available, total wells drilled increased an average of 12.6 percent a year, the Journal says in its Oct. 9 issue.

Quarterly active-rig totals through the first half of this year in non-Communist areas show the trend is continuing and is strong enough to carry into the future.

Well completions in the non-Communist world shot to 52,136 in 1976 from 28,582 in 1973. For several years prior to 1973, well-completion totals were comparatively stable at 33,300-36,500.

Well completions in the U.S. and Canada have continued to increase at least through August. And the Hughes Tool Co. non-Communist active-rig count has increased during each of the last nine quarters, rising to 3,655 last June from 2,655 in March 1976.

Since 1973, wildcat wells-wells drilled to depths or in areas where hydrocarbons are not already known to exist--accounted for 25 to 30 percent of total wells drilled each year, but the trend is downward.

Exploration is likely to remain heavy for at least the next several years in the U.S. and Canada, which together have accounted for about 90 percent of the wells drilled and 70 percent of the active rigs in recent years.

But some of the major producing countries of the Eastern Hemisphere are shifting the focus to development and extension drilling.

In the U.S. much attention is focused on exploratory drilling off the East Coast. Drilling in the Baltimore Canyon off New Jersey has turned up a gas discovery that is undergoing delineation. Several other offshore areas remain to be leased.

Near-future exploratory drilling is expected to be heavy in the Williston basin and Overthrust Belt in the western U.S., and in many other areas. Drilling in California has ebbed.

Canadian drilling is concentrated in the West Pembina area of Alberta and in the Deep basin along the British Columbia border. drilling in Canada's offshore frontier areas will accelerate next summer, the Journal says. Action will be in the Beaufort Sea and off Canada's East coast.

Mexico has become one of the hottest exploration arenas in the world with major discoveries in the states of Chiapas and Tabasco and the Gulf of Campeche.

Drilling is increasing, but results have been mixed in South America, where several countries are opening their doors to foreign operators.

Despite a shift in Eastern Hemisphere emphasis to development, there have been some important discoveries.

Norway's state-owned Statoil has a discovery near Statfjord field in the North Sea that may be in the giant class. And the Nido field discovery off Palawan Island in the Philippines has opened a new exploration arena in the South China Sea.

In the U.K. North Sea, wildcat drilling has declined and may fall futher, due to stiff lease terms, higher taxes, and limited new acreage. Most of the larger structures on present leases have been drilled.

Middle East producing countries continue to concentrate on development drilling, and African exploration has produced mixed results.

The two major Communist countries have taken diverse courses in their drilling programs.

Remote wildcatting in the Soviet Union is giving way to deep drilling in producing areas or development drilling, with action concentrating more and more in the prolific oil and gas regions of western Siberia.

In China, exploration is fanning out, and the nation is increasingly turning to other countries for equipment and technology, especially for offshore exploration.

Meeting to focus on energy hunt

SAN FRANCISCO, Calif.—How to find new energy resources and meet the world's growing demand provides the primary focus of an international conference which convenes in San Francisco Oct. 29.

Earth scientists from around the world will deliver 274 technical papers during the four-day meeting of the Society of Exploration Geophysicists, examining dozens of techniques for finding oil, natural gas, coal, uranium as well as geothermal energy sources and other mineral deposits.

More than 6,000 delegates and spouses, representing 30 counties, are expected to attend the meeting which was six years in planning. It will be the 48th annual meeting of the 11,000-member SEG, whose members are in the vanguard of exploration, and the first time the meeting has been held in San Francisco.

"All indications are this will be one of the largest SEG meetings in history," L. C. Lawyer, general meeting chairman, said. "We have already set records in the number of exhibitors and speakers. Thirty-three technical sessions are scheduled covering virtually every aspect of geophyscial exploration."

He pointed out the meeting theme, "Geophysics-Diversifying for Progress"is characterized by the broad scope of the technical program organized by Walter R. Fillippone, with Union Oil Co. of Calif., technical program chairman.

Lawyer, a geophysicisgt with Chevron U.S.A., heads the San Francisco-based steering committee for the conference. He explained the technology exhibition includes 170 participating companies displaying the latest equipment and techdniques available to energy explorationists.

Another San Francisco geophysicist, E. John Northwood, with Chevron Overseas Petroleu, is president of the Society of Exploration Geophysicisgts and will present a keynote address at the meeting's kickoff luncheon Oct. 30.

Beyond the strictly technical program, a special Public Affairs Session follows the Oct. 30 luncheon to evaluate the relationship between the energy industry and the media and the public perspective of exploration.

Key members of the panel in this session, organized by SEG's Governmental Affairs Committee, are: Michael McCloskey, executive director of the Sierra Club; Roger Peterson, ABC News Washington correspondent; Edgar C. Capen, a noted economist with Atlantic Richfield Co.; Carl Savit, senior vice president of Western Geophysical Co. and a former U.S. presidential science advisor; and Carl Terzain, a public relations executive involved with the energy industry.

SEG's past president; Roy O. Lindseth, president of the Canadian-based Teknica Ltd., will moderate the Public Affairs Session. Among the questions the panel is expected to field from the audience will be: How energy companies can improve their images and how misinformation often reaches the public.

General vice chairman of the SEG annual meeting is Norman P. Jokerst, with Chevron Overseas Petroleum. Other principles on the steering committee are: Robert H. Brune, with the U.S. Geological Survey, arrangements chairman; Robert W. Mertz, Sohio Petroleum Co., entertainment chairman, and Colleen Silcox, ladies program chairman.

The main entertainment event of the meeting features Lola Falana, recently honored as Song and Dance Star of the Year by the American Guild of Variety Artists.

Crude yield up slightly

AUSTIN—State and federal leases in offshore Texas petroleum provinces produced 126,869 barrels of crude oil during July 1978 in contrast to 125,431 barrels in the same month of 1977 and 121,396 barrels in June 1978, the Railroad Commission's Oil and Gas Division reported.

Gas well gas production on offshore state and federal leases amounted to 20,137,706 mcf in July against 23,567,151 mcf a year earlier and 19,137,706 mcf in June 1978.

Casinghead gas production totaled 294,096 mcf in July against 194,801 mcf in the same month of 1977 and 299,283 mcf in June 1978.

Condensate production on the state and federal leases amounted to 139,752 barrels in July, down from 154,044 barrels a year earlier and down from the 148,405 barrels in June.

Wells on state offshore leases in July produced 88,665 barrels of oil, 233,808 mcf of casinghead gas, 14,700,289 mcf of natural gas and 137,993 barrels of condensate.

In July 1977, offshore state leases produced 113,111 barrels of crude oil, 165,359 mcf of casinghead gas, 17,352,151 mcf of natural gas and 148,683 barrels of condensate.

Through July 1978, cumulative production in state and federal waters off Texas totaled 18,294,708 barrels of crude oil and 2,659,562,796 mcf of natural gas. January-July 1978 production totaled 893,809 barrels of crude oil, 2,211,086 mcf of casinghead gas, 150,245,882 mcf of natural gas and 1,129,489 barrels of condensate.

Production in federal and state waters in January-July 1977 totaled 589,889 barrels of oil.

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Sandi Carrouth, on telephone, answers one of the many questions concerning the Permian Basin Oil Show. The show headquarters have been set up on the grounds of the Ector Coliseum for the duration of the show which opens Wednesday and ends Saturday. With her, from left, are Sandi Chesshir and Donna Trout. Ms. Carrouth is the oil show secretary. More than a score of workers will be on hand in the office on opening day. The office force will field dozens of questions and pass out multitudes of advice before the big four-day event gets underway.

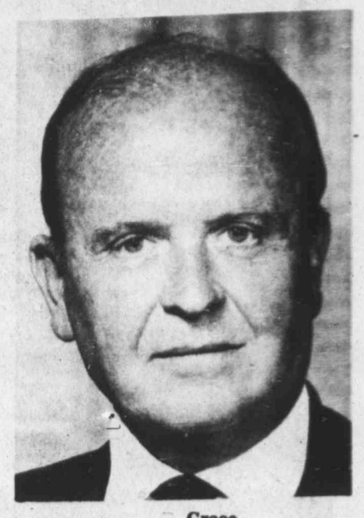
Grace will get award at media presentations

NEW YORK—J. Peter Grace, president and chief executive officer of W. R. Grace & Co., will receive a special award at the 13th annual Morality in Media Wards Dinner Nov. 13 in New York City.

Grace will receive the award for distinction in business and exemplary public service.

Chairman of the awards dinner is Robert F. Wagner, former mayor of New York City and former U.S. Ambassador to Spain.

Morality in Media, Inc., is the national organization committed to helping stop the traffic in pornography constitutinally and effectively and working for media based on decency, truth and good taste.



Grace

Grace joined W. R. Grace & Co. in 1936 and was elected secretary of the company in 1942, a director in 1943 and president and chief executive officer in 1945.

Throughout his career he has been associated with public service groups and educational institutions.

Too much oil in test

CHARLESTON, W. VA.—Eight months after Col. Edwin L. Drake drilled his famous Pennsylvania oil well, West Virginia could boast of a producer that flowed 100 barrels of oil daily from 303 feet.

The well was drilled by the Rathbone brothers near the mouth of a small stream called Burning Springs Run in Wirt County.

The stream had been given its colorful name by settlers who had found two springs along its banks which bubbled with natural gas in such quantities that it could be set on fire.

The Rathbone brothers were in the salt business. Experience had showed them that salt often was found in areas where gas springs were located. In 1842, they bought a 1,000-acre tract of land in Wirt County, including the area where the springs were bubbling.

They began drilling for salt brine. But one well, at a depth of 250 feet, produced so much oil the Rathbones had to abandon attempts to get salt water. For years, the Rathbones skimmed the oil as it rose to the top of the well and sold it in the locality as a lubricant. When news of Drake's well reached Wirt County, the Rathbones put their well on a pump and produced several barrels of oil daily.

And late in 1895, they began drilling a well for oil. It came in May 1, 1860, its daily production of 100 barrels coming from what was called the Cow Run sand. Later in the year, a second well came in, flowing 40 to 50 barrels per day.

The news of the second well brought the boomers on the run. The field grew and a village of several thousand inhabitants sprang up nearby. But the boom was short-lived. In 1863, Gen. William E. Jones' 3,000 Confederate calvarymen rode into camp. Derricks, boats, barrels, tanks and 300,000 barrels of oil were were ablaze when they rode out.

It was quite a setback to the growing industry. More than 20 years passed before other significant fields were found in West Virginia.

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Geologist gives report on Austin formation

EDITOR'S NOTE: The following summary of the geological and production history of the Austin Chalk Trend of Texas was prepared by Bruce W. Fox of Tyler, a petroleum geologist. It was used by the Energy Consumers and Producers Association of Seminole, Okla., in September in making a request to the Department of Energy for price relief for future wells drilled in the trend.

SEMINOLE, Okla.—The Austin Chalk is a limestone formation of upper Cretaceous age. The rock itself is dense, with very low porosities and permeabilities.

Production is encountered in natural fractures which occur with varying frequencies throughout the producing trend.

The producing and potentially producing area covers a band of 10 to 15 miles in width that extends from the Rio Grande just south of Eagle Pass, east-northeast 20 to 30 miles south of San Antonio, 50 miles east of Austin and north of Bryan. This is a producing trend of approximately 350 miles in length. The updip limits of production are defined by a termination of the fracturing. The downdip limits are not as yet defined and probably will be determined as they are now by the cost of drilling as it increases with depth, versus the price of oil.

The fractures in the Austin Chalk are vertical and occur along this trend which acted as the hinge line as the Gulf of Mexico subsided. The stresses set up by the subsidence were relieved by the fracturing of the Austin Chalk. These fractures were then filled with oil which either migrated in from the underlying Eagleford or the Austin itself.

The area had received intermittent drilling in the 1930s through the 1950s, with the best production being found in the Pearsall area and, therefore, more wells were drilled during this time in that area.

However, most of the wells had to be artificially stimulated before they would produce commercially for any length of time. Back in the 1930s this involved shooting them with nitro and then, in the late 1940s and 1950s treating them with acid.

Since the wells dropped off rather quickly after the initial flush production, and even at that time were not cheap for the depth drilled, the major companies pulled out of the area in the early 1940s. The drilling activity was very sporadic until the recent drilling, which was prompted by the oil price and new fracturing or stimulation techniques.

The present activity in the area was started in 1974 when the price of new oil began to rise. It was felt that with the increase in the price of oil the Austin Chalk was an economical venture. The wells could be drilled in 1974 and the early part of 1975 for approximately $185,000 to $200,000, including a fracture treatment.

The average well would come in flowing, after fracture, between 80 and 120 barrels a day, then would drop off over a period of six to eight months to approximately 30 to 40 barrels a day.

The area had received intermittent drilling in the 1930s through the 1950s, with the best production in the Pearsall area.

At the end of one and one-half years, the well would be making between 15 and 20 barrels a day, and then would experience a long period of producing between 6 to 10 barrels a day.

They would have to be placed on pump either immediately or shortly after fracturing. The development in the area in 1975 and 1976 was very rapid. Somewhere in the neighborhood of 40 rigs were operating in the trend, primarily in the Pearsall and adjacent area.

The average well now costs between $250,000 and $300,000 to complete, and the price of oil is controlled to where the operator is getting less than he was in 1975; therefore, interest in the area has decreased and many of the oil field supply and service companies which moved into Pearsall and other towns within the trend are now moving or have moved out as the operators have turned their attention to more economical areas.

Since pipe has to be set on these wells in order to evaluate them, a completion attempt is almost invariably tried. Therefore, the poor wells must be lumped with the good ones and the increased cost plus the decrease in production price, as well as changes in our tax structure, have effectively put a damper on the trend.

Assuming the area to be approximately 350 miles long by 12 miles wide, this covers 4,200 square miles and, with 80-acre spacing, allows for 33,600 wells if completely drilled up. Since the entire area will not be productive, it could conservatively be said that 75 per cent of the area or 25,200 wells, would be drilled if the economics so dictated. Allocating a recovery factor of 80,000 barrels a well, which is a reasonable estimate, this figures 2,016,000 barrels of oil.

Little letup in Michigan oil, gas exploration

LANSING, Mich.—Most observers will probably agree that Michigan's oil and gas drilling activites showed little sign of letup during 1977, Arthur E. Slaughter, state geologist and assistant supervisor of wells, said.

Now in the ninth year, Silurian reef exploration continues to dominate virtually all other reservoir objectives.

The greatest concentration of drilling is still scattered along the northern reef trend in the northern part of the Southern Peninsula, Slaughter said.

The leader in this exploratory effort is Shell Oil Co., followed next by the Amoco Production Co. Independents are also in the play but do not have the acreage spread as do the majors.

There were 301 exploratory wells considered as completed in 1977. The results were 35 new oil pools, 36 new gas pools and 230 dry holes. It is likely that a few of the 1977 dry holes will be reworked, probably by directional drilling from the same hole, Slaughter predicted.

Annual oil and gas production continued to climb in 1977 as more reef reservoirs were found and the wells put on production.

Michigan's no-flare order, put into effect in April 1973, has helped to boost gas production by requiring the gathering of millions of cubic feet of gas, much of which might have been wasted by flaring or excessive testing.

The no-flare order, mainly applicable to reef reservoirs since few other types are being discovered, results in wells being shut-in until pipelines and market connections are made.

But regardless of these shut-in wells, the state's total gas production in 1977 amounted to 133,215,2089 thousand cubic feet, a new record exceeding the previous high of 120,250,528 set in 1976.

The importance of the northern reef development is magnified by the fact that 108,623,379 thousand of the 1977 gas production came from nothern Michigan reef oil reservoirs or gas reservoirs.

Oil production also increased in 1977, most of it directly related to nothern reef develoment.

Tital oil production in 1977, including stabilized condensate, amounted to 32,964,583 barrels compared with 30,421,533 barrels produced in 1976.

It is of interest to note that of the total 1977 production, 20,106,466 barrels of oil and 1,991,330 barrels of stabilized condensate from gas wells came from northern reef trend wells, Slaughter said.

The Albion-Scipio trend oil pool, a fractured and dolomitized reservoir of Middle Ordovician age, is still the state's most prolific single field. Oil production amounted to 1,912,628 barrels in 1977 and gas production amounted to 9,784,250

Total oil and gas production from this field through 1977 amounts to 114,623,077 barrels of oil and 178,660,675 thousand cubic feet of gas.

Although Michigan's annual gas production has been increasing the past few years, about 90 percent of the state's gas needs are imported from western and southwestern states via pipelines and stored in Michigan's gas storage reservoirs, Slaughter said.

Gas imports for 1977 are not available, but figures provided by the Public Service Commission, Gas Division, showed that about 794 billion cubic feet were imported in 1976.

Michigan has 35 storage fields currently in operation, Slaughter pointed out.

About a third of these storage reservoirs are in Niagaran reefs.

In the northern reef area, conversion of two gas-condensate reef reservoirs to gas storage is contemplated within a couple of years, Slaughter said. Both reefs are in the Otsego County region and are single-well reservoirs.

Working capacity of these two reservoirs, under gas storage use, totals about 18 billion cubic feet of gas.

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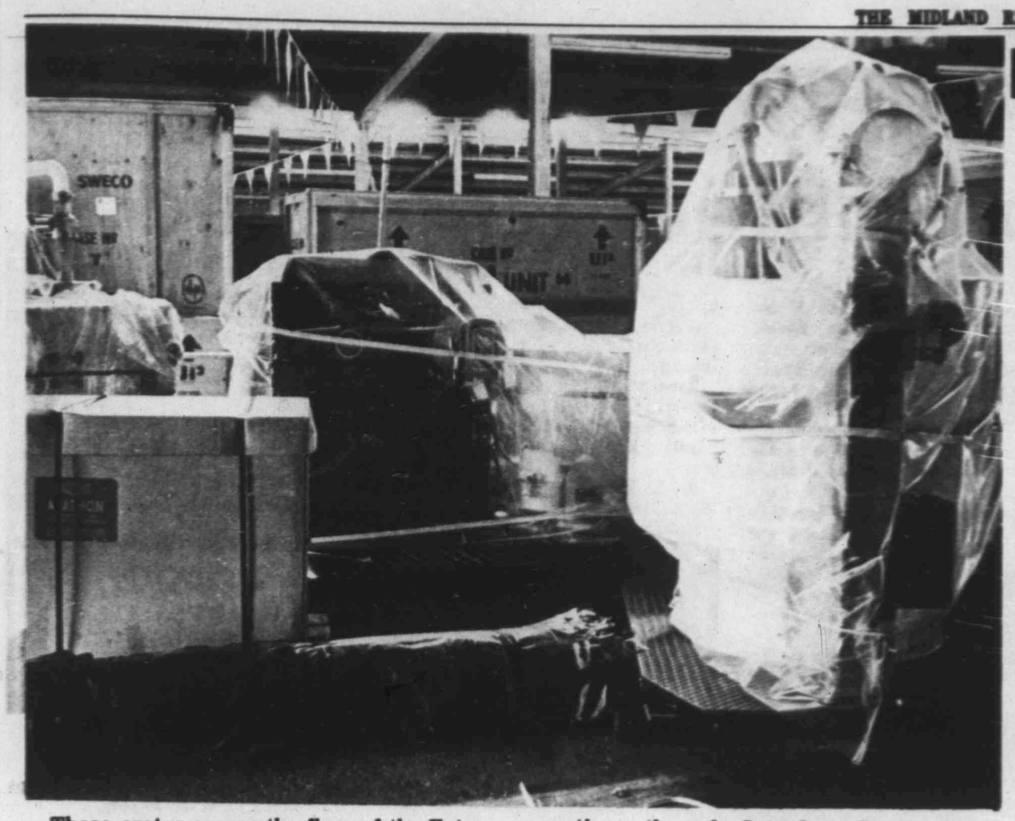

These crates are on the floor of the Ector County Coliseum, in Odessa waiting for workman to set up their contents as exhibits for the Permian Basin Oil Show that opens in Odessa Wednesday. The four-day event will continue through Saturday. Frank Ikard, president of the American Petroleum Institute will be honored at ceremonies Friday that will open the exhibit grounds to the general public.

Five to be inducted into fame hall

Five more persons who were instrumental in the development of the Permian Basin petroleum industry will be inducted into the Permian Basin Petroleum Museum's Hall of Fame Feb. 15.

The five men will be inducted at the annual Hall of Fame Dinner which will be held this year in the Midland Hilton, Maurice Bullock, chairman of the museum's board of executors, said.

The new fame hall members are E. Russell Lloyd of Midland; Ernest R. Marland of Ponca City, Okla.; the brothers Arch H. Rowan and Charles L. Rowan of Fort Worth, and William G. Skelly of Tulsa, Okla. All are deceased.

Lloyd, a noted geologist, became widely known for his theories on reef barriers which originally caused controversy among geologists but have since become largely accepted.

Marland was instrumental in introducing the new seismograph method of prospecting into the U.S. in 1921. His Marland Oil Co., an aggressive wildcating firm, was later transformed into the present Continental Oil Co.

The Rowan brothers, who were jointly nominated for membership, headed the Rowan enterprises in their pioneering drilling and wildcatting activities. They founded Rowan Drilling Co. in 1927 and built it into a worldwide drilling enterprise which also had notable success as a producer in West Texas and many other areas.

Skelly made one discovery after another in Oklahoma, Kansas, Texas and other states. His No. 1-A T. G. Hendrick found one of the great Permian Basin fields. Skelly Oil Co. has since been merged into Getty Oil Co.

Oil, gas exploration showed increase in Ohio during '77

COLUMBUS, Ohio—The Division of Oil and Gas of Ohio, during 1977, issued 4,610 permits to drill new wells, 47 permits to reopen old wells and 441 permits to plug and abandon wells which ceased to be productive, Theodore A. DeBrosse, assistant chief of the division reports.

A total of 5,098 permits issued represent an increase of 18.8 percent when compared with the previous year's total, he said.

A total of 2,737 drilling operations were reported in Ohio during 1977. When compared with the previous year's reported activity, this figure reflects an increase of 759 drilling operations or 38.7 percent.

This figure also reflects the highest level of activity that has been recoreded in Ohio since 1964 when 2,835 drilling opertions were reported.

New wells were drilled for oil and gas in 49 of 88 counties of the state, DeBrosse said. The most active counties were Coshocton, Tuscarawas, Muskingum, Washington, Oerry, Guernsey, Portage, Knox, Mahoning, Trumbull and Carroll.

The total reported new wells drilled for oil and gas during the year is 2,624, of which 2,453 were productive (83.48 percent) and 171 were failures, the division chief said.

The productive wells consisted of 844 gas wells, 372 oil wells and 1,237 combination wells. A total of 1,560 or 59.45 percent of these new wells were drilled with rotary tools and 1,064 or 40.55 percent were drilled with cable tools.

A total of 142 new wells drilled were classified as exploratory wells. The total new well footage drilled was 9,640,162 feet compared with 7,675,114 feet during 1976.

The average depth per well is 3,674 feet, a decrease of 290 feet per well when compared with the 1976 average.

By far, the largest number of wells were drilled to the Silurian Clinton-Medina sandstone. There was 2,081 new wells drilled to this stratigraphic sequence, 1,977 of which were productive. The success ratio of 95 percent is slightly higher than the 94.11 percent success achieved the previous year. These wells accounted for 79.31 percent of the new wells drilled.

The second most popular target of the drill was the lower Mississippian Berea sandstone. A total of 389 new wells were drilled to this reservoir, 368 of which were productive. The 94.60 percent success ratio is 7.33 percent higher than the percent productive recorded in 1976.

The total reported oil production for 1977 is 10,358,833 barrels of oil from Ohio fields. This figure reflects an increase of 364,380 barrels when compared to the 1976 production.

The dollar value of the crude produced in Ohio during 1977 was $136,280,876 which is $18,625,969 more than the value of the previous year's production. The averge price paid per barrel was $13.16 which reflects an increase of $1.39 per barrel.

Natural gas production in Ohio in 1977 was 99,656,379 thousand cubic feet. This figure includes 986,697 thousand which was produced and utilized in the field, not marketed.

In comparing the total volume of natural gas produced in the state in 1977 with the previous year's total, there is an increase of 9,886,699 thousand cubic feet.

The dollar value of the natural gas produced in 1977 is $139,267,294. This figure is $48,755,689 more than the value of the previous year's production.

The average price paid per thousand cubic feet was $1.397 which reflects and increase of 37.9 cents.

Rights given

CHICAGO, Ill.—Standard Oil Co. of Indiana and the UOP Process Division, UOP Inc., have signed an agreement granting to UOP rights under Standard's patent for its UltraCat cracking regeneration process.

The process was developed by Standard's subsidiary, Amoco Oil Co. for use in fluid catalytic cracking operations and provides a process in which coke on the catalyst and carbon monoxide in the combustion gases are substantially eliminated in the regenerator.

Last year Standard filed suit in the U.S. District Court, Southern District of Texas, against UOP Inc., and its licensee, Charter International Oil

Retirement brings changes at Amoco

CHICAGO, Ill.—The normal retirement of Virgil H. Dolen as Amoco Oil Co.'s Western Region vice president in Kansas City after 37 years with the company is bringing about a number of changes in the company's top field marketing positions.

The announcement was made last week by S. G. Van Sickle, Amoco marketing vice president.

D. R. Stubbs, vice president of the company's Central Region in Chicago since 1975, will replace Dolen in Kansas City.

Replacing Stubbs in Chicago will be Paul D. Collier, currently vice president of Amoco's Eastern region in Baltimore. Collier has been in his present position since Aug. 1, 1975.

Being promoted to regional vice president in Baltimore is R. D. McMullen, who has been director of marketing for the region since May 18, 1972.

Replacing McMullen is John C. Bergman, new director of marketing for Amoco's Great Lakes region in Detroit. Bergman has been in the Detroit position since Oct. 31, 1976.

All of the transfers are effective No. 1, Van Sickle said. Dolen officially retires Dec. 17, his 65th birthday.

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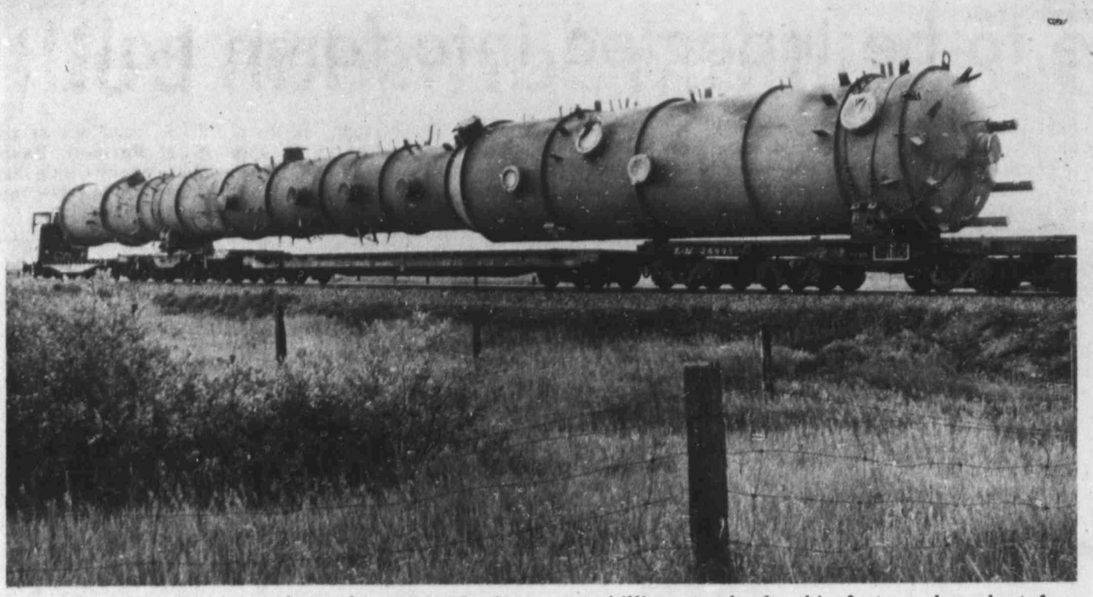

A 300-ton demethanizer column, largest in North America, is shown enroute from Edmonton to Empress, Alberta, Canada. There, the 160-foot-long vessel will become part of the world's largest single-train ethane extraction plant. Fluor Canada Ltd. is designing and constructing the $70 million, two-billion standard cubic feet-per-day plant for Pacific Petroleums Ltd. The demethanizer is made from allow steel with 3.5 percent nickel content and is designed to operate at minus 140 degrees Fahrenheit.

Manpower Requirements committee announced

WASHINGTON—The National Petroleum Council announced the appointment of the NPC Committee on Materials and Manpower Requirements. The committee, formed in response to a request from Secretary of Energy James R. Schlesinger, will prepare a draft report for consideration by the membership of the National Petroleum Council.

In requesting the study Secretary Schlesinger recognized that as the pace of oil and gas exploration and production increases, constraints may develop from shortages of critical materials and trained personnel.

The study will examin the materials and manpower requirements of the domestic exploration and production segments of the oil and gas industries. The primary focus of the study will be on the period 1979-1981 but the longer term (1985-1990) will also be discussed. The impact of laws and regulations will be reviewed to identify possible constraints.

The study will update the council's 1974 report, Availability of Materials, Manpower and Equipment for the Explorationn, Drilling and Production of Oil-1974-1976, but will also examin the requirements associated with geological and geophysical services.

John P. Harbin, chairman of the board, Halliburton Co., Dallas, Tex., will chair the committee. Meetings of the committee are announced in the Federal Register and are open to the public.

The National Petroleum Council is a federal advisory committee to the Secretary of Energy. From 1946 until the implementation of the Department of Energy Organization Act of 1977 the council served as an advisory group to the Secretary of the Interior.

Members of the committee are:

Jack H. Abernathy, chairman of Big Chief Drilling Co., Oklahoma City.

Bruce Anderson, Oil and Gas Porperties, Houston.

R. F. Bauer, chairman of the board, Global Marine, Inc.

C. Fred Chambers, president, C&K Petroleum, Inc., Houston.

E. H. Clark Jr., president and chief executive officer, Baker International, Orange, Calif.

Edwn L. Cox, oil and gas producer, Dallas.

Kenneth A. Ford, past president of the Association of Oilwell Servicing Contractors, Perryton, Tex.

Kent Frizzell, director of the National Energy Law and Policy Institute, The University of Tulsa, Tulsa, Okla.

H. J. Haas, past president of the Gas Processors Association, Houston.

Armand Hammer, chairman of the board and chief executive officer, Occidental Petroleum Corp., Los Angeles.

George A. Helland Jr., past president of the Petroleum Equipment Suppliers Association, Houston.

J. F. Justiss, immediate past president of the International Association of Drilling Contractors.

Thomas L. Kimball, executive vice president of the National Wildlife Federation, Washington, D.C.

F. R. Mayer, chairman of the board, Exeter Co., Denver.

Randall Meyer, president and chief execurtive officer, Exxon Co., U.S.A, Houston.

Kenneth E. Montague, president of General Crude Oil Co., Houston.

Jeff Montgomery, chairman of the board of Kirby Exploration Co., Houston.

R. J. Moran, Moran Bros., Inc., Wichita Falls, Tex.

Robert Mosbacher, Houston.

Glenn E. Nielson, chairman of the board of Husky Oil Co., Cody, Wyo.

T. B. Pickens Jr., president of Mesa Petroleum Co., Amarillo, Tex.

John S. Shaw Jr., chairman and president of Southern Natural Resources, Inc., Birmingham, Ala.

Edgar B. Speer, chairman of United States Steel Corp., Pittsburgh.

John E. Swearingen, chairman of the board of Standard Oil Co. of Indiana, Chicago, Ill.

H. A. True Jr., True Oil Co., Casper, Wyo.

Raleigh Warner Jr., chairman of the board, Mobil Corp., New York City.

John G. Winger, vice president, The Chase Manhattan Bank, New York City.

NOBODY READS SMALL SPACE ADS... DO THEY???

Arkansas search at fast pace says state director of production

LITTLE ROCK, Ark.—Exploration for oil and gas during 1977 was carried out at a good pace, says Ralph A. Dumas, director of production and conservation for the Arkansas Oil and Gas Commission.

Operators drilled 514 projects last year, resulting in the discovery of four new fields, three re-discoveries, and six new pools. The footage drilled during the year was 2,553,669 feet for an average of 4,968 feet per well.

Of the 514 tests drilled, 257 were completed as oil wells, 44 as gas wells, 16 as service wells and 197 as dry holes.

The depth record of 16,611 feet set in 1967 by Humble Oil & Refining Co.'s No. 1 Georgia-Pacific in Ashley County, was not threatened last year. And, the W. H. Hunt No. 1 Harold Nations in the Welcome field of Columbia County continues to hold the producing depth record—11,149-11,195 feet in the Smackover lime.

In 1977, there were 184 oil fields in south Arkansas. The 7,756 wells in these fields produced 20,201,812 barrels of oil and 36,781,024 mcf of gas, an increase of 2,104,609 barrels of oil and 6,632,550 mcf of gas over that produced in 1976.

The 67 dry gas fields in northwest Arkansas had 1,253 gas wells that produced 86,645,507 mcf of gas during the year, a decrease of 5,640,400 mcf from the 1976 production

Glasscock ranks 80th

GARDEN CITY—Glasscock County, a farming and ranching area east of Midland County, also made its mark in oil production during 1977, although its production was such that the county ranked 80th in recovery of petrochemicals for the year.

The county's fields gave up 4,640,785 barrels of oil and 6,971,616 thousand cubic feet of gas.

There were no permanent residents in the county listed on oil company payrolls during the year, although one natural gasoline processing plant operates in the county with a capacity of 50 million cubic feet of gas per day.

Operators drilled five wildcats and 84 field wells in the county in 1977, with four of the wildcats coming in dry and 73 of the field tests being completed as oil producers and eight as gas wells.

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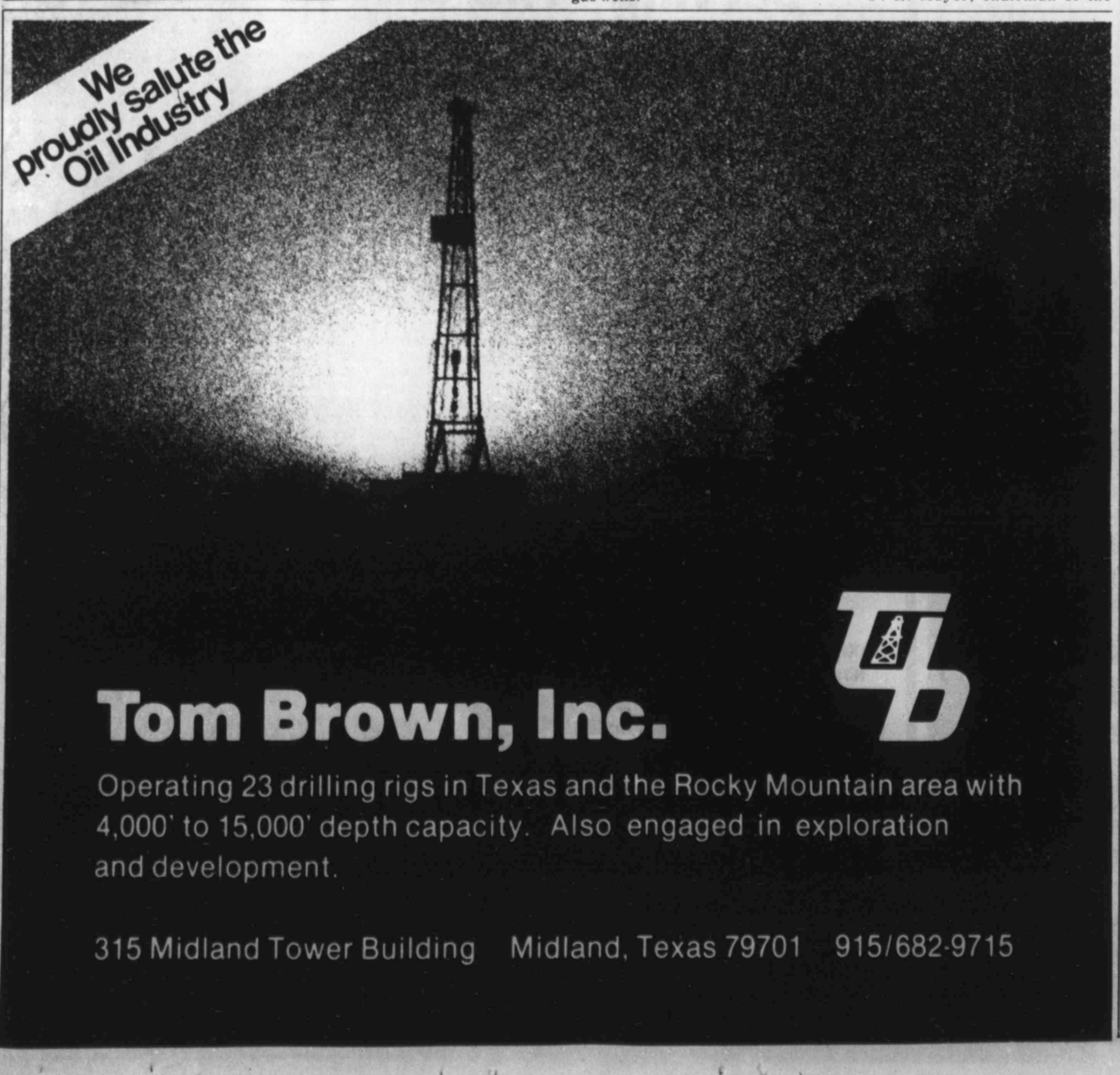

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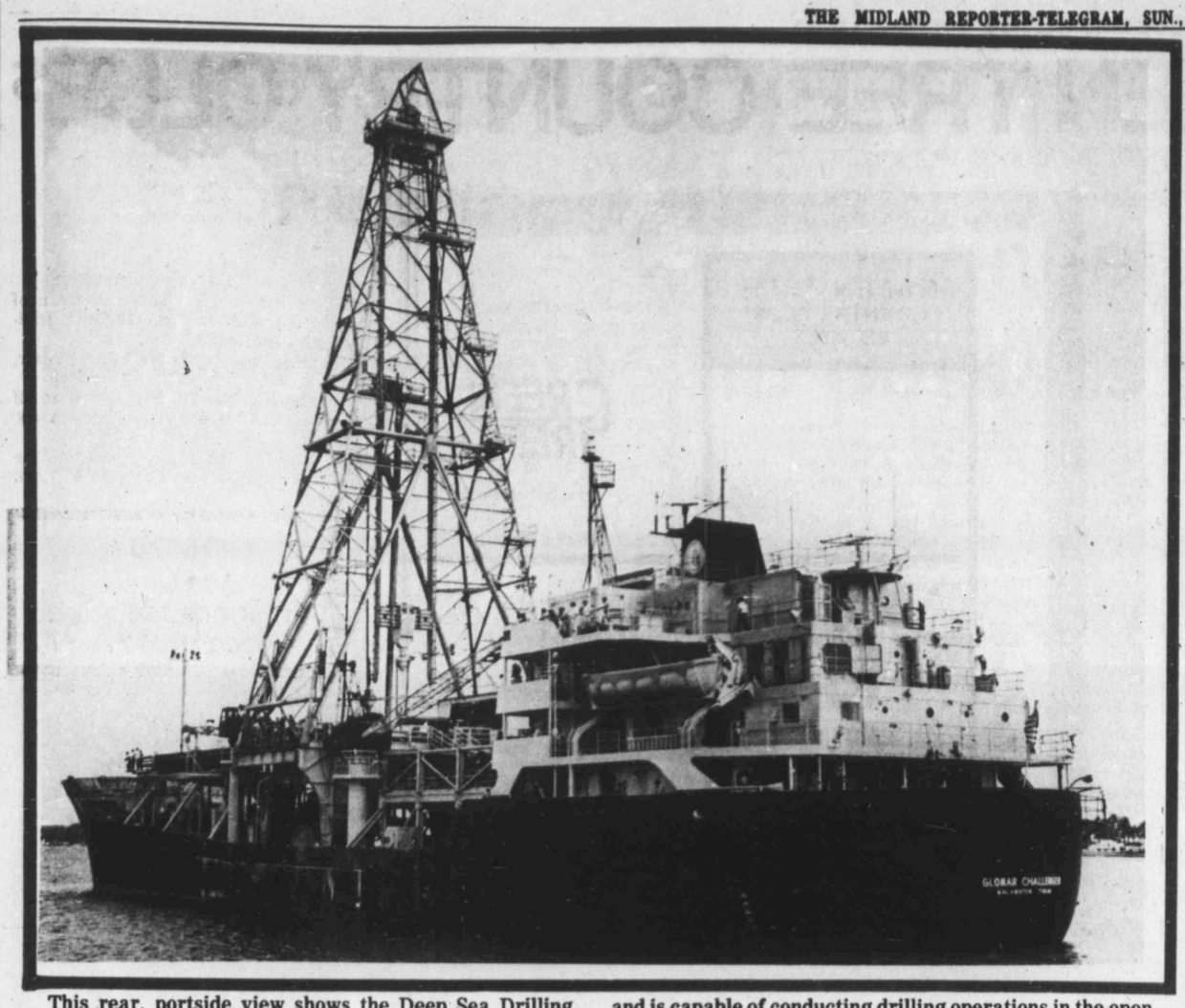


This rear, portside view shows the Deep Sea Drilling Project's D/V Glomar Challenger. The 10,500-foot vessel is 400 feet long, as a bean of 65 feet and a loaded draft of 20 feet. She is owned by Global Marine, Inc., of Los Angeles, and is capable of conducting drilling operations in the open sea using dynamic positioning to maintain position over a bore hole. Amidship is the drilling derrick which stands 194 feet above the water.

William Barnsdall built first refinery in U.S.

TITUSVILLE, Pa.—William Barnsdall, an Englishman, came to the United State in 1852 and founded a shoe factory in Titusville, Pa. Eight years later he bacme the world's first refiner.

Before becoming a refineryman, Barnsdall found success as a pioneer producer.

Stirred by the high-pitched oil fever that spread following Col. Edwin L. Drake's 69.5-foot oil discovery well in 1859. Barnsdall pinned his money and hopes on an oil well just a stone's throw from the Drake well. Spring-pole drilling started in late 1959.

In February, 1860, the well produced 50 barrels of oil after the first day of pumping. During the first three months it produced 56,000 gallons of oil which sold for $16,000 after an initial investment of $3,000.

It was the industry's first big producer.

The success story spread and almost overnight wooden derricks pipped up around the Titusville area. It was a nervous era. Each day brought news of success, failure, wealth and lost fortunes.

Not content with the apparent success of his drilling venture, Barnsdall mapped plans to build the world's first refinery. He was aware of young America's need for a better fuel to light the lamps of homes, farms, schools and industry.

He needed $10,000 capital, in addition to what money he had, to build the plant. Ten thousand dollars was an enormous amount of money in Titusville. A six-room brick country home cost less than $8,000 and beef was selling for 10 cents a pound.

Barnsdall sold a one-eighth interest in the refinery to William H. Abbott for $10,000 and started building the refinery on the banks of Oil Creek in the fall of 1860.

Much of the refinery equipment was made in Pittsburgh and had to be transported up the Allegheny river and then up Oil Creek. Acids used in the refinery process were shipped from Cincinnati.

William Barnsdall was aware of young America's need for a better fuel to light the lamps of homes, farms, schools and industry, so he got busy and built the world's first refinery.

The plant was completed in a few months. On Jan. 22, 1861, the first run of oil was made through the refinery. The objective was to produce kerosene for lamp fuel.

The first yield didn't exceed 50 percent of the crude oil. Not knowing how to utilize the byproducts, the operators dumped tar and naptha into Oil Creek or burned it.

The world's first refinery included six stills and bleachers with all the fixtures and tanks under one roof. Stills were encased in brick masonry from top to bottom to conserve heat and prevent fires. The condensing of copper pipe, tapering from 4 inches to 2¼-inches, immersed in cold water for cooling.

A manhole in the dome of the plant permitted stillmen to climb down into the unit to clean out the tarry left-overs after the stills cooled at the of a run.

No detailed records of the refinery's later operations are available.

The plant eventually was replaced by improved facilities. But William Barnsdall never stopped his pioneering work in the infant oil industry.

Four years after putting the refinery on stream, he was one of the leaders in the "Pit Hole" excitement of 1865-67. He opened up what had been called the "one and only sure thing" among oil fields—the Bradford Field—where a dry hole was never drilled.

Barnsdall's son, T.N. Barnsdall, was just 10 years old when the world's first refinery was completed. Five years later he was working as a pumper on his father's well. Young T.N. added fuel to his father's surging oil operations.

Kerr-McGee to upgrade refinery

OKLAHOMA CITY—A project to increase unleaded gasoline production capacity and upgrade low-value residual fuel oil to gasoline and distillates at the Southwestern Refining Company's refinery at Corpus Christi, Texas, has been announced by Kerr-McGee Refining Corporation, Southwestern's parent company.

Contracts have been awarded and construction is scheduled to begin in November. The project will not increase the refinery's overall throughput capacity above the current 122,000 barrels of crude oil per day, Mac Jordan, Kerr-McGee Refining president, said.

The project will center on installation of a 28,000 bpd fluid catalytic crcking unit to increase the production of high-octane gasoline stocks. This will eliminate the need for some of the lead anti-knock additives used in gasoline.

The process will include the latest technology to remove particulate and reduce sulfur oxide emissions.

When the project is complete, the refinery will be able to meet federal requirements for no more than one-half gram of lead anti-knock compounds per gallon of gasoline refined, Jordan said.

C.F. Braun & Co., Alhambra, Calif., will provide mechanical design and procurement of equipment. The H.B. Zachary Co., San Antonio, Texas, will be the construction contractor.

A similar project is under way at Kerr-McGee Refining's Wynnewood, Okla., refinery.

Promotions announced

FINDLAY, Ohio—Marathon Oil Co. has announced several appointments which were effective Oct. 1.

Wilfred R. McLeod, division engineer, has been appointed manager of technical projects.

Ravi P. Aurora, advanced senior engineer, has been named soils and foundations specialist, and Billy T. McCaslin, advanced construction engineer, is now supervisor of design and engineering, construction group.

Harry Maguss, operations manager of Marathon's Calgary District, has been named operations manager of the Casper, Wyo., District.

Pecos County reports good production year

Pecos County was Texas' No. 1 oil and gas producing area in 1977 from the standpoint of value of the hydrocarbons recovered.

The oil yield was 43,076,484 barrels, while gas production hit 601,356,054 thousand cubic feet.

The county, location for one of the most prolific oil fields in Texas—the Yates pool—is one of the nation's top deep drilling areas.

Operators drilled 181 projects in Pecos County last year, 24 wildcats and 157 field operations.

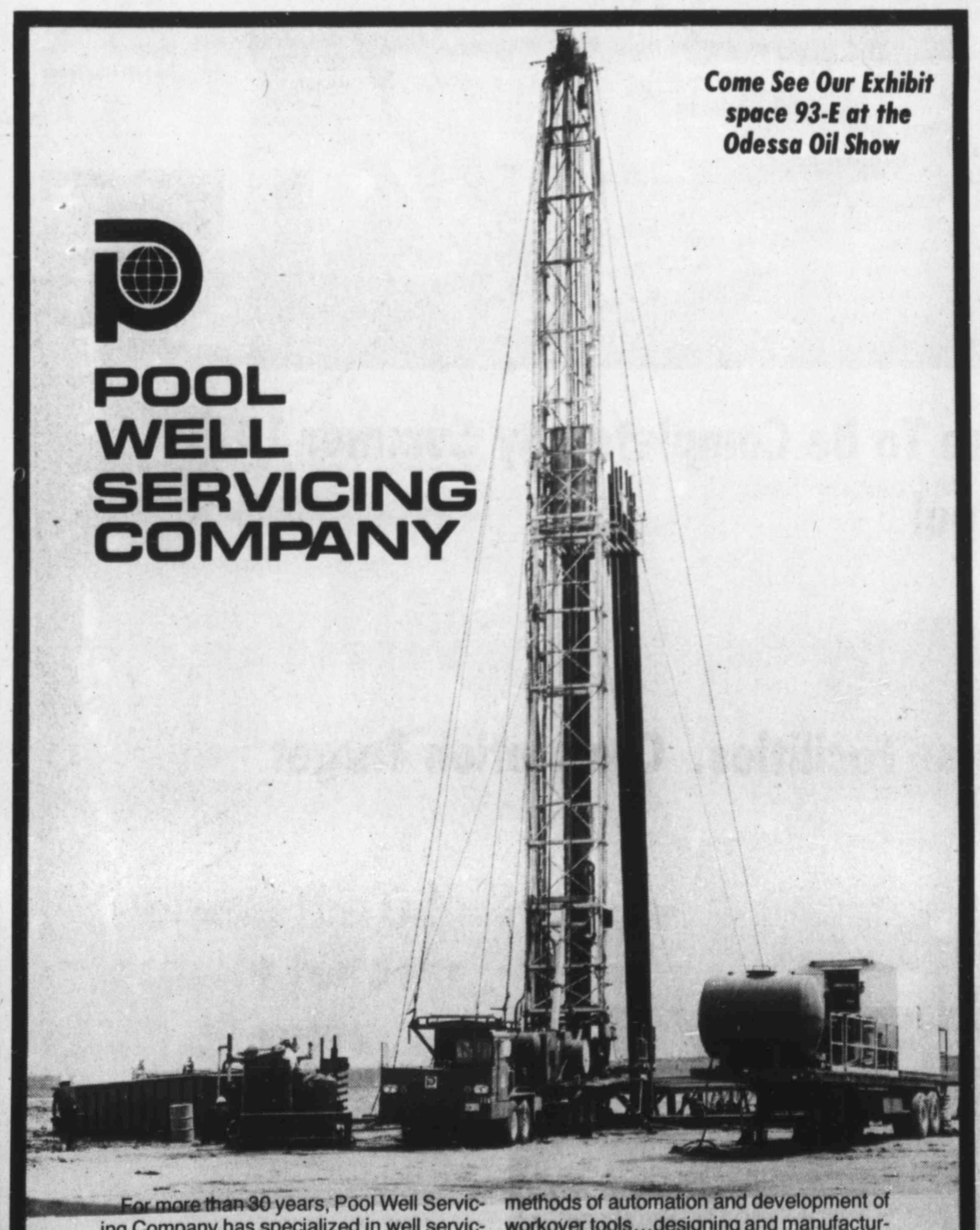
Operators spent a whopping $82,881,973 in that exploration program. Dry holes cost the operators $12,189,480. The quest for oil was successful in five wildcats and 71 field projects. Eight gas discoveries were completed and 57 gas wells were potentialed. Twenty-nine field dprojects were dry and 11 wildcats failed to find commercial oil or gas production.

The value of the oil produced in Pecos County last year was $389,411,415, while the value of the gas was $543,625,873 for a whopping total hydrocarbons yield of $933,037,288.

The county's oil production brought the state $17,912,925 in taxes, and taxes of $40,771,940 were paid on the gas recovery.

The oil and gas industry worked 1,178 persons in Pecos County in 1977 and paid them $15,857,468.

One petrochemical plant operates in Pecos County, along with seven natural gasoline plants, with a total capacity of 1,137.5 million cubic feet of gas per day.



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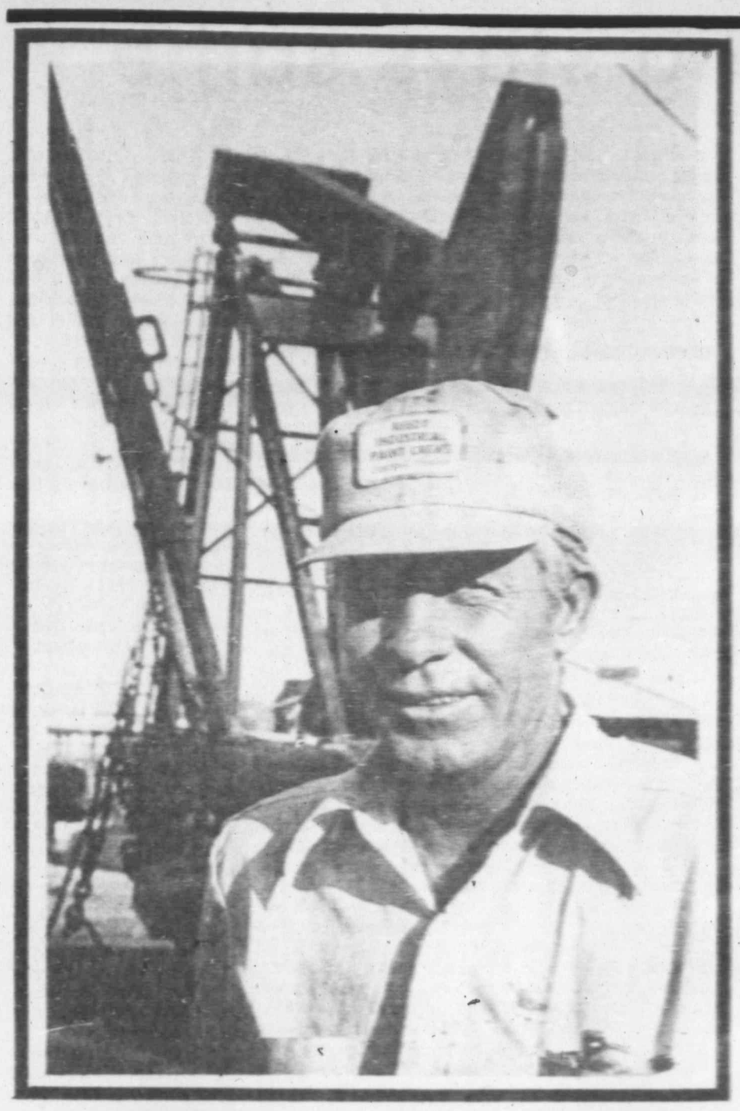

He's a painter, and his subjects include oil field pumping units, such as the Lufkin pump jack in the background. Jess Reedy, who has about a quarter of a century experience in industrial painting, and his crews spray-painted many of the units on display in the Permian Basin Oil Show and Exposition in Odessa. (Staff Photo by Ed Todd)

Independent operator needs to possess bulldog tenacity

AUSTIN—It takes bulldog tenacity to be an indegendent oil operator, a report from The University of Texas indicates.

In a study of 16 independent oil operators in Midland and Dallas, a student in UT's Graduate School of Business found that the mean number of consecutively drilled dry holes among those interviewed was 21.

And, dry holes are not the only hurdle, the report reveals.

The cost of drilling a well can range from $150,000 to more than $1 million. Furthermore, the chances of hitting oil by "wildcatting" (drilling for oil in areas where productivity has not been formed) runs from one in seven to one in ten, while the figure for making a strike in developmental wells is in the 60-65 percent range.

The professional report was prepared by John B. Gunn Jr. of Dallas (4017 University) as part of a series on entrepreneurship (company formation) conducted under the supervision of Prof. Albert Shapero of the Management Department. Gunn received his Master of Business Administration degree May 20.

Professor Shapero observes from Gunn's study that the Texas independent oilmen can be considered "super entrepreneurs," for with 21 consecutive failures "they still came back and started over—it was like starting a new company each time."

In interviews running from 30 minutes to four hours, Gunn found that at the time the independent oilmen drilled their first well, 60 percent perceived it to be a low-risk venture. Today, however, only 27 percent of the men feel the drilling of a well can be considered as "low risk" while 53 percent think it "high risk" and 20 percent see it as "medium risk."

"The shift in perception of risk is due to the acquisition of a better understanding of the probabilities embedded in the search for oil," Gunn writes, noting that the odds of finding oil for any given prospect "can be narrowed only so much."

"Axiomatic with being a successful independent," he says, "involves exposure to these risks each time he drills a well. As one independent put it, 'You have to get out where lightning can strike you.'"

Gunn notes that the independents, on average, feel that the future for the productive search for oil and gas is limited to 20 years of further development.

That belief, he says, is based on the fact that while prices on oil and gas have risen, they are controlled, but labor and material costs are not controlled. Also, he continues, "as more and more of the oil lying relatively close to the surface is found, the search for new finds is concentrating today on oil lying deeper in the ground and within geological formations from which it is more difficult to extract."

Drilling in California takes downward turn

Bill Ingram, administrative officer for the Division of Oil and Gas of California's Department of Conservation, reported that 2,831 notices to drill or service wells were approved in California in 1977.

That figure represents a 10 percent decrease from the 3,138 notices approved in 1976. He said that total footage drilled in new tests was 6,314,097 feet, seven percent less than the 6,771,761 in the prior year.

Ingram reported that six gas fields were discovery in northern California in 1977 and that seven new gas pools were found in six established gas fields.

In 1977, California's oil production increased by eight percent, rising from 855,548 barrels per day in 1976 to 926,027 barrels per day in 1977.

Associated gas production decreased by one percent to 436 mmcf per day in 1977 from 440 mmcf per day in 1976. No associated gas production decreased by seven percent to 447 mmcf per day in 1977 from 478 mmcf in the prior year.

Ingram also reported that federal offshore oil production decreased by 10 percent last year to 34,521 barrels per day. The prior year figure was 38,356 barrels. At the same time, federal offshore gas production increased by 17 percent to 16 mmcf per day from 14 mmcf per day in 1976.

Department gets grant

AUSTIN—The recently created Mining and Mineral Resource Research Institute of The University of Texas at Austin has been awarded $270,000 by the U.S. Department of Interior.

The institute was established by President Lorene Rogers as an administravite unit of UT Austin's Bureau of Economic Geology.

Institutes in the various states were provided for in Title III of the Surface Mining Control and Reclamation Act of 1977. Although a number of universities were determined to be eligilbe by a national advisory committee, only 20, including UT Austin were funded.

The University of Texas at Austin was designated by both Governor Briscoe and the Legislature as the institution in Texas to apply to the U.S. Department of Interior, the Federal funding agency for the institutes.

The institute will have both research and training missions, according to Dr. W.L. Fisher, director of the Bureau of Economic Geology. Of the total initial funding, $110,000 is provided for operation of the institute (a sum to be matched by UT), and $160,000 will be used for fellowships and scholarships over a three-year period. Funding is authorized by the Act through 1983.

Although the institute is established and funded as a part of The University of Texas at Austin, research also will be conducted cooperatively with Texas A&M University System, including Prairie View University.

Principle participants of the institute will be staff, faculty and students of the Bureau of Economic Geology, the College of Engineering and the Department of Geological Sciences, Dr. Fisher said.

The State of Texas has long been the leading state in mineral production, providing almost 40 percent of all the oil and gas produced in the nation. It also is increasing rapidly in lignite and coal production, and in the future may be a major producer of geothermal energy.

Also, Texas is among the top five states in the production of non-fuel minerals, especially chemical minerals like salt and sulfur and constructural minerals like stone, sand, and gravel. It ranks third in the production of uranium.

The prominence of mineral production and development in Texas has been reflected in the University's high level of commitment and activity.

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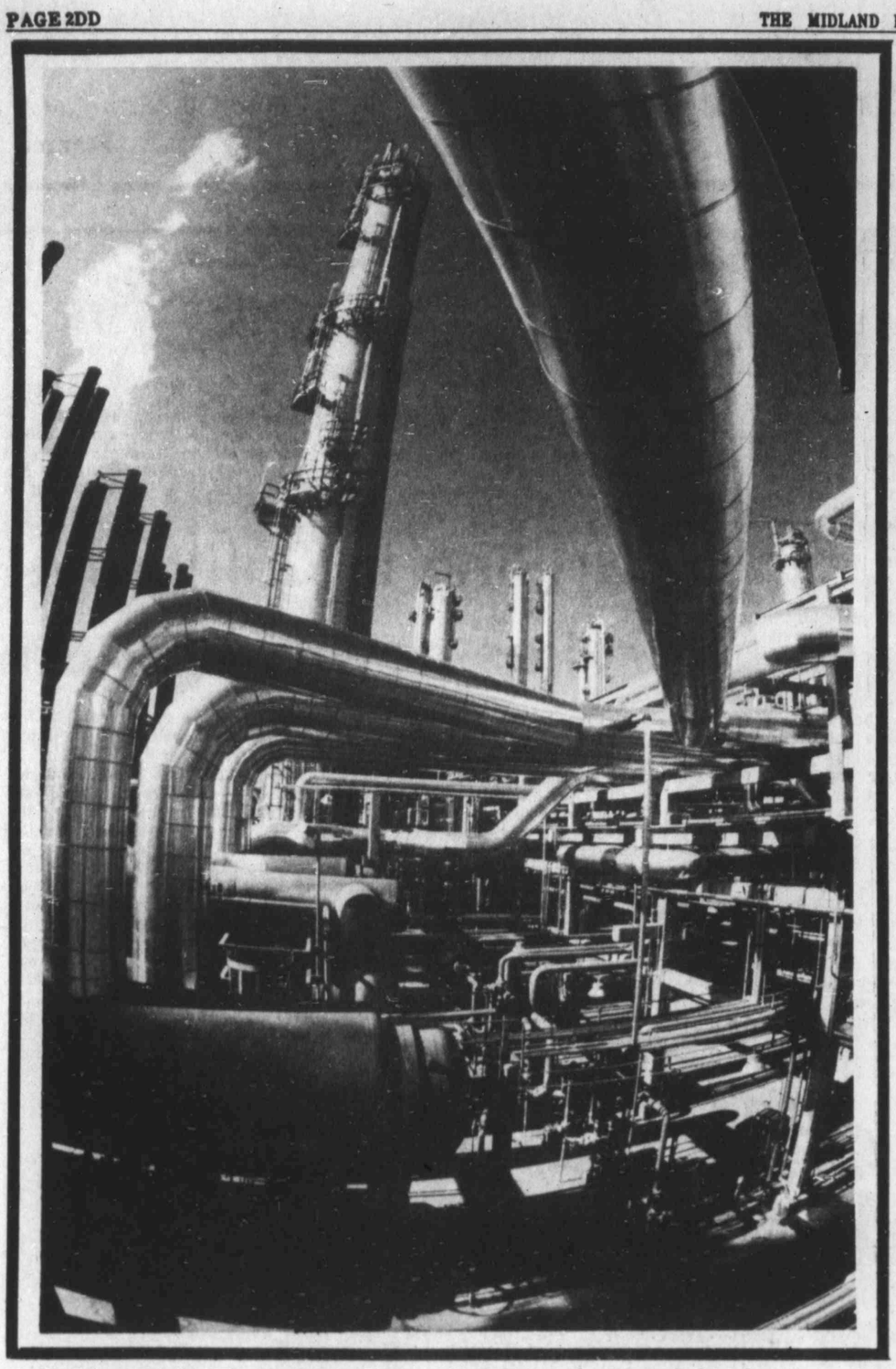

Its pipes gleaming in the sun, Amoco Chemicals' Chocolate Bayou plant near Alvin, has contributed a company-wide 25 percent reduction in manufacturing plant energy used per pound of product. Amoco's energy efficiency improvement, reported year-end 1977, has already surpassed its 1980 goal.

Many things change, but Odessa gang stays same

ODESSA—Someone once said, "The more things change, the more they stay the same." That can be considered true in the case of the Permain Basin Oil Show.

During its 30 years of existence, the show has grown from 38 exhibitors in 1940 to approximately 500 this year.

Oil show officials have witnessed a change in the way the equipment is displayed and the crowds have swelled-an estimated 500,000 will attend this year's show.

But a few things haven't changed. There is still the friendly atmosphere that is found in any oilfield of the Permian Basin. And there is the old rig area of the oil show grounds where oilmen from another age gather to hash over old times and watch the Pop Harrison No. 1 making hole just as it has been doing for years.

The Odessa Chuch Wagon Gang is another tradition of the Permian Basin Oil Show that hasn't changed. Almost from the very beginning the Chuck Wagon Gang has been on hand for the final day of the oil show to dish up its now world-famous barbecue, beans and cole slaw.

The Chuck Wagon Gang is made up of 250 members, half of them being inactive, and most of those men are engaged in some type of oilfield business.

Come the final day of this year's oil show, those men who are members of the Chuck Wagon Gang will desert their jobs and show booth to turn to the task of feeding their barbecue to approximately 15,000 visitors from 5 to 7 p.m.

The Gang is probably the most famous catering organization in the world because they have traveled throughout the United States, one trip to Mexico, and in 1976 went abroad to feed visitors to a Norwegian oil show in Stavanger.

Odessa Chuck Wagon Gang known far and wide. One feeding job took the group to Norway for an oil show.

It was on March 5, 1940, that Jerry Debenport, then manager of the Odessa Chamber of Commerce, called together 32 businessmen in a local cafe to discuss an idea he had that would help sell Odessa to its neighbors and the country.

From that meeting on a typical windy spring day for West Texas was the beginning of a unique organization that would travel millions of miles, serve millions of plates of barbecue and spread the fame of Odessa and Texas across the United States.

Those same 32 businessmen established a tradition that has held to this day. They chipped in $20 each to buy the first "chuck wagon." In addition, they agreed to pay annual dues to support the Chuck Wagon Gang's operation, buy their own uniforms to give it a western look, and pay their own expenses to and from feeds that were held out of town.

Although the Chuck Wagon Gang's reputation for good food has spread all across the nation, there is not a professional, or paid cook included in the membership. All meat is barbecued, beans cooked, and cole slaw prepared by men who can be found sitting behind a desk or drilling an oil well at most anyother time during the week.

When the Chuck Wagon Gang was organized in 1940 one of the first items of business was to get an authentic chuck wagon built to resemble the earlier chuck wagons that went up and down the cow trails to the rail heads.

The orginal chuck wagon made its first feed on April 11, 1940, in neighboring Andrews, when a new courthouse was dedicated.

One of the first persons to taste that famous barbecue was then Governor Coke Stevenson of Texas.

By 1947 regular feeds of 7,000 people or more was commonplace, and in the same year the offical uniform that is worn today was adopted.

When 1950 rolled around, the Chuck Wagon Gang activities were getting too much to handle for the orginal chuck wagon and it was turned out to pasture in favor of the tractor-trailer van which is now required to cross the nation at a moment's notice.

Although the annual Baytown feed for Humble Oil employees has consistently been the big feed of the year for the Chuck Wagon Gang, a record was set in 1969 at Klondike Days in Edmonton, Alberta, Canada, when the Gang dished up 29,000 plates of their barbecue.

The Gang members have been called upon to serve just about every type of meal that a large crowd would want. And they have consistently met the challenge in all kinds of weather ranging from driving rains and snow to boiling hot sun.

The meals the Gang has served down through the years has changed, their mode of transportation has changed, now it's air travel for most, and their equipment has changed some.

But the Gang membership hasn't changed. Summed up in a few words, they are a group of men dedicated to only one purpose—selling their hometown.

Williston Basin surge predicted

BILLINGS, MONT.-The current upsurge in drilling and the success now being enjoyed in the Williston Basin in western North Dakota and eastern Montana was predictable by analysis of computerized drilling statistics, according to Dr. Phillip H. Stark, vice president Petroleum Imformation Corporation.

Dr. Stark presented a case history of such studies done several years ago to the opening session of the Williston Basin Symposium in Billings on Monday.

Dr. Stark's paper keynoted the symposium with the conclusion that other areas which may have been regarded as "non-commercial" are subject to re-evaluation from geologic as well as economic standpoints and that statistical analysis is simple, low cost tool with which to initiate evaluation of the potential of by-passed areas. In particular, he concluded that independents and smaller companies may find statistical analysis especially useful.

Dr. Stark cited a study of twelve counties in the central Williston Basin. The "show index"...tabulation of live oil shows per dry hole...indicated a rich hydrocarbon area in several of these counties. Subsequent drilling resulted in discoveries which triggered the current active drilling play. Dr. Stark included a review of Williston Basin exploration in the seventies.

Where some drilling history is available, analysis by simple statistical reports can be the basis for more rigorous economic and geologic studies prior to investment decisions, Dr. Stark concluded.

Reagan area still factor

BIG LAKE—Reagan County, the area that started the Permian Basin on the road to oil riches when the fabulous Big Lake field was discovered in 1923, continues to be a factor in West Texas oil and gas exploration.

Although the county is far down the list in rank among Texas' producing areas, 47th, the areas pools did recover 6,912,744 barrels of oil in 1977 and 31,534,039 thousand cubic feet of gas.

The oil industry still is the biggest employer in the county, with 418 persons drawing paychecks that totaled $5,192,320.

Five natural gasoline plants in the county processed 192.7 million cubic feet of gas per day last year.

In the drilling program, two wildcat failures were recorded and 108 field wells were completed, mostly in the Spraberry Trend Area. Only three field attempts failed to find production. The total number of projects, both wildcat and field, in 1977 was 113.

Reagan's 1977 oil production was valued at $62,491,206, while the gas was valued at $128,506,771.

The oil production gained the state $2,874,595 in taxes, and taxes of $2,138,008 was paid on the gas yield.

Amoco's energy-saving plan reached ahead of schedule

CHICAGO, Ill.—A 1980 goal of a 20 percent reduction in manufacturing division energy consumption has been achieved and surpassed, an Amoco Chemicals Corp. official announced.

For calendar year 1977 compared to base year 1972, Amoco's seven U.S. chemical manufacturing plants have contributed a 25 percent reduction in energy used per pound of product, according to Robert E. Noble, Amoco Chemicals vice president of manufacturing.

Of the 146 approved capital energy conservation projects costing $24 million to be completed by 1980, Amoco has already implemented 112 projects, said Noble, making the pace-setting reduction possible.

"To continue this impetus," Nobel stated, "Amoco has committed itself to $36 million in energy conservation capital expenditures over the next two years."

The plants contributing to the enrgy savings are at Joliet, Ill.; Willow Springs, Ill.; New Castle, Del.; Decature, Ala., Texas City, Tex.; Chocolate Bayou, Tex., and Torrance, Calif.

The company's major effort to cut energy consumption was supported in mid-1973 when Noble activated a corporate energy conservation task force composed of himself, as chairman, the general managers for chemicals and polymers/olefins manufacturing and the manager of engineering. In addition, each plaht has an active energy conservation committee and a coordinator who reports to Amoco Chemicals Corporate Energy Conservation Coordinator Jules Anderson.

A flare gas project, Noble pointed out, is one of the most important energy-saving measures to be implemented. It provides for the recovery of enough high BTU gas to supply up to 20 percent of the fuel required for three 80,000 pounds/hour boilers.

Another program, the burning of 40 millions pounds per year of residue material (18,000 BTU/pound), furnishes the energy equivalent of 120,000 barrels of oil per year.

Turboexpanders, installed to recover energy that would normally be dissipated into the atmosphere, reduce electrical usage by as much as 102 million KWH/year.

Reorganization told

SANTA BARBARA, CALIF.—Oceaneering International, Inc. has announced a reorganization in their Sales Department. Nick Campise, sales vice president with the firm, will head up all Sales activities for Oceaneering's Latin America operations. In addition, he will also act as U.S. representative for the company's overall international sales efforts, acting in a support role for Don Sites, Corporate Sales Vice President.

Two newly appointed sales representatives are also based in the Houston office. James (Tim) Thompson is Oceaneering's international sales representative, assisting Campise with the company's international efforts. Thompson has been with the firm for over ten years, working in many of its operational and sales areas. Dick Evans, a new Oceaneering employee, will cover the Latin American countries, except Brazil. Evans has extensive, worldwide background in all phases of the offshore industry, most recently with King Wilkinson. Both men bring a wealth of experience to their new positions.

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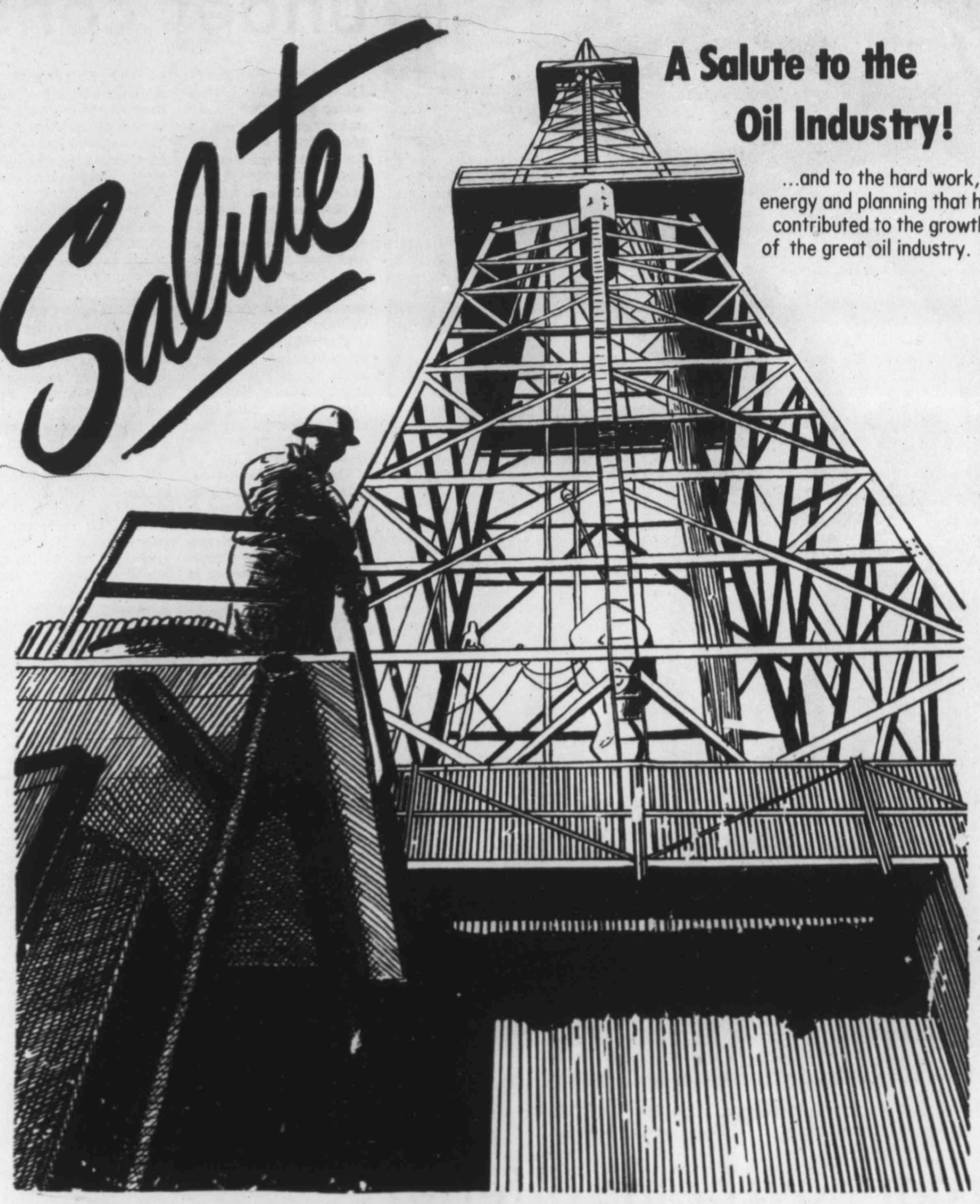

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If you think of the conduit as bars, you could say that Buck Barnard appears to be imprisoned as he makes a routine inspection at The Tenneco Oil Company fractionating plant at La Porte, near Houston.

Offshore LOOP project under construction

GRAND ISLAND, LA.—The first U.S. deepwater port is now under construction 22 miles offshore from Grand Ilse, La. The $500 million Louisiana Offshore Oil Post (LOOP) project. SOFCE is an eight-year-old Houston company which specialized in the design and construction of Single Point Moorings (SPMs) for offhsore oil terminals and early production systems.

The SALM system is an advanced design of early Single Point Mooring Systems. Some of these systems have been in continuous service around the world for more than 20 years.

The SALM concept was originated by a major oil company in the early 1960. During the ensuing development period, more than 1,000 model testss were conducted in irregular seas with tankers as large as 500,000 DWT, and in wate depth up to 590 feet. Following rthe conceptual phase, SOFEC was selected as a licensee and since has designed SALM terminals for water depths to 530 feet, operating seas to 39 feet, survival seas to 96 feet and tanker sizes to 750,000 DWT.

The basic concept of SPM design is to provide mooring for tankers which is sufficently elastic to minimize hawser loads, yet adequately stiff to control tanker motions. SALM's, the advanced type of SPM's, usually consist of five basic parts - the bouy, mooring base, hose system, single anchor leg and fluid swevels.

The SOFEC SALM bouy serves only to moor the vessel and is not used to transfer cargo. Therefore, integral parts of the cargo transfer system - the fluid swivels and hose are - are not mounted on the bouy, but rather are submerged below the maximum draft of the tankers. Removal of these critical components from the bouty virtually eliminates the possibility of demage to these parts, the bouy or the vessel, should the tanker ride up onto the mooring.

The hose system in the SOFEC design is allowed to follow the motions of the sea and is connected to the fluid swivel through a length of submerged hose which serves as an ideal flexible transition from surface wave zone to a depth where wave action is reduced.

The mooring base for a SOFEC SALM can be anchored to the sea floor by either piling or gravity, depending upon soil conditions. In each case, the base is floated or barged to the installation site and sunk. The gravity-anchored base is flooded with water and then filled with gravel and quarry for stability while the pile anchored base is fixed to the sea bottom with pilings.

The fourth component of the SOFEC SALM is the single anchor leg, from which the terminal gets its name. This part consists of the short length of huge six-inch diameter anchor chain mounted between two universal joints which connect the bouy to the mooring base. An anchor chain swivel permits full 360 degrees rotation of the bouy, allowing the moored vesel to weathervane freely.

SOFEC fluid swivels are precision mechanisms specifically designed for long term service under submerged conditions without the need for periodic maintenance. The assemblies utilize multiple seals internally and externally and are lubricated during manufacture. Maintenance on fluid swivels, unversal joints and other mechanical parts has been nonexistant, and hose replacement requirements have been minimal. In fact, no maintenance or servicing has ever been required on a SOFEC SALM fluid swivel, the oldest of which has been in service since 1969.

These five components form the basic structure of the SALM system. Depending upon specific needs and water depths, SALMs differ in design but perform the same function - provide mooring and offloading facilities for deep-water tankers too large for the shallow waters near the shore.

When installed, the SOFEC SALM terminals for LOOP will offlead tankers at a rate up to 175,000 barrels per hour. The oil, mostly imported crude from the Middle East, will be transported via pipeline to the Clovelly Salt Dome in southern Louisiana for storage. Ultimately, this oil will be connected to approximately 25 percent of the country's refining capacity via the St. James Terminal and its pipeline connections.

LOOP will represent the first U.S. facilities capable of handling supertankers. The large-volume loads will result in cheaper transport costs per barrel of oil and help build up the U.S. emergency reserve stored in the salt domes. Previously, the offloading of these vessels was impossible because of the deep draft required to handle supertankers.

The permanently moored storage tanker is offloaded periodically into a transit Tnaker. In this application, the SALM, storage tanker system replaces the requirement for a pipeline and shore-based terminals and thus drastically reduces project costs.

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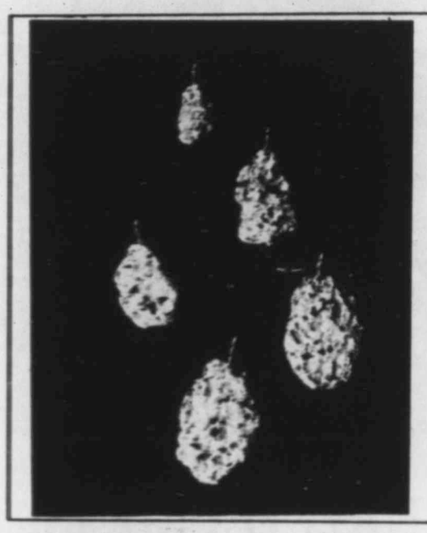

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Hands-on program now being offered

ROSWELLL—The Oilfield Training Center at Eastern New Mexico University — Roswell — offers students a two-year, hands-on training program, college credits, and the prospect of earning $12,000 to $18,000 a year when they graduate.

The program, which enrolls 35 to 50 students, was started three years ago because of a critical shortage of trained personnel in the oil fields inthe Roswell area.

It was started without state funds. The oil industry donated eqiuipment from fields throughout West Texas and New Mexico.

The director is Les Langston, who designed the curriculum and persuaded the univerisity to try it. He has 43 years experience in oil drilling and production "across the oil patch and around the world."

Field safety is stressed heavily in the course which covers drilling,well servicing and production. The program includes classroom instructionbut much of a student's time is spent in the field of in the laboratory.

The classrooms are housed in a giant hangar on the campus, which has an indoor lab and outdoor lab. The latter is a simulated oilfield with all of the pertinent equipment. Worn equipment is repaired aby the students as part of their training.

The trainees have access to tripper (low producing) wells north of Roswell where they service the wells, pump them and even sell oil. Sutdents visit other nearby wells during the drilling pahse as well as when they are producing or being repaired.

The program received state money for the first time this year and has spent $48,000 for new tools and equipment. The college will be seeking funds for a new building during the next legislative session, according to John Gillis, vice president of ENMU for the Roswell campus.

Persons interested in the program may call Langston at (505) 347-5441 or write him at Box 6761 ENMU-R, Roswell, N. M. 88201.

Oil has role in Dawson

LAMESA—Dawson County, better known to West Texans as a cotton producing county—the nation's top cotton area the last two years—also is one of the state's oil producing counties.

The economy was bolstered by the production of 9,400,603 barrels of oil in 1977 which was sold for $84,981,451. Not noted as a big gas producer, the county gave up only 4,713,094 thousand cubic feet of gas during the year. The value was $4,260,637, giving the county a total hydrocarbon value of $89,242,088.

The county was the scene of 77 oil and gas projects in 1977. Eighteen of the tests were wildcats and only two of themwere completed as producers, both from an oil horizon.

Operators drilled 49 field development wells, with 10 of them failing to find commercial production. In all, 51 of the 77 projects were successful, while 26 were dry holes.

Three nartural gasoline processing plants operate in the county with a daily capacity of 6.7 million cubic feet.

The oil workers total 356 and their payroll last year was $4,651,100.

The state received $3,909,147 in crude oil taxes, and $319,548 in taxes from the gas production.

Drilling expenditures totaled $12,-390,453, with $3,881,358 going for dry holes.

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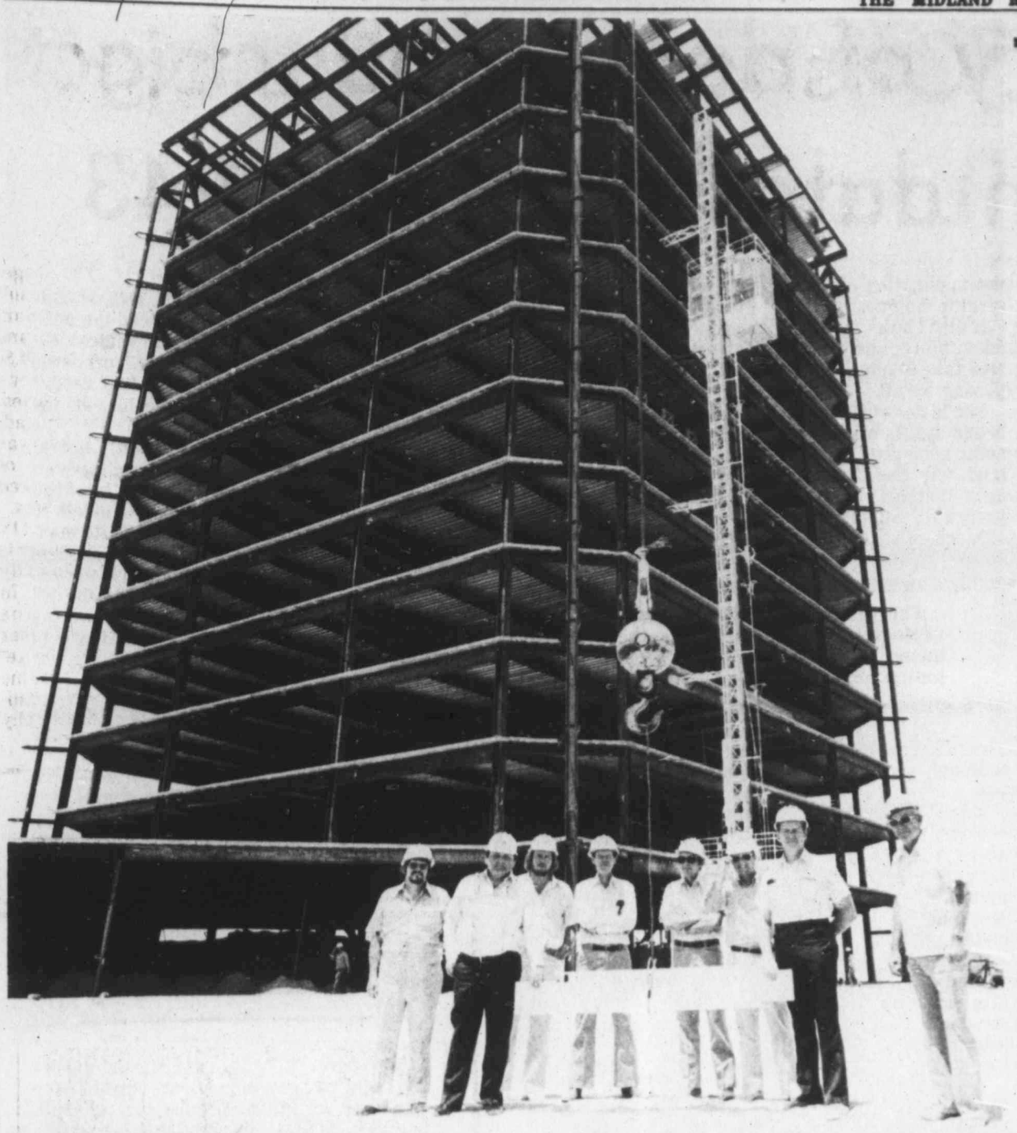
"The problem in Washington isn't just the Administration. We need strong leadership in Congress; leadership that will put the needs and interests of the country ahead of partisan politics and take action NOW on an intelligent national energy policy."

"A sound national energy policy is the key, not only to economic growth within the country, but plays a vital part in our efforts to attract foreign investment dollars and to stabilize our own sagging dollar overseas. We can hardly expect confidence in our economy when we flounder around, refusing to deal realistically with this critical situation."

"As a Congressman, I won't be subject to the pressures from the leadership in Congress and the White House. As the nation turns to our region for leadership and answers, I will be able to maintain an independent position and vote for the future of our country and West Texas."

George Bush for Congress



The 30-year highlight for Fluor in Saudi Arabia is topping ceremony for new Fluor Arabia headquarters building at Al Khobar, near Dhahran. The 14-story, 214,000-square-foot building is scheduled for occupancy in March 1979. It will be Saudi Arabia's first high-rise using structural steel with curtainwall exterior. The building will provide office space for Fluor Arabia personnel now operating from a number of locations in the Daharan area.

Tripplehorn brothers find first Andrew County oil

General Shafter was instrumental in the early history of Andrews County. A small town and a lake was named after the army man. His travel route through the county is known as Shafter's trail.

ANDREWS—Although Andrews County was not organized until 1910, its history dates as far back as 1873-75.

At that time, the area embracing Andrews and Gaines counties was a favorite retreat of the wild Indian tribes who infested the Plains country. It was their last stronghold, to which they retreated during the Indian campaign of 1874-75.

This area was the scene of many skirmishes fought by Co. R. S. McKenzie's 4th U.S. Calvary and Colonel Blue and elements of the 11th U.S. Infantry against the hostil redskins.

Long before the advent of the white man upon these naked plains, this trail was used by the Apache Indians in their frequent raids upon the settlements of the Texas border. Later, the same trail was used by General Shafter in his military expedition into this region, and the trail is known today as Shafter's Trail.

The large salt lake located about eight miles northwest of Andrews also was named for the same general, who later became famous during the Spanish-American War.

In 1876 in Austin, the state legislature passed an act creating 54 new counties out of the vast territory lying within the Panhandle and at that time known as part of Bexar County.

One of the newlycreated counties was named Andrews in honor of Richard Andrews, the first hero to fall in the war for Texas Independence.

After the county was created, things rocked on until 1900 with a few ranchers coming in and settling big ranches.

Among the early day pioneers settling in Andrews County were the Will Craddocks. They came to Andrews County in 1902 and Craddock was manager of Brennand's Steeple O Ranch, with headquarters about where the Block 12 oil field was discovered.

Other pioneers settling in the county were the Bill Howells, who settled at Florey; George Ratliffs, Charley Harts, S. E. Unbertsons and the J. W. Underwoods.

It was in 1906 that the state school system made plans to get rid of its land and people drifted in to file homesteads. Many of them settled in the Shafter Lake area and it began to grow into quite a town. By this time the small communities of Florey, Shafter Lake, Hollebeke and Losdon were set up.

In the early days, supplies were hauled from Midland by wagons — It usually took five days to make the trip, two to go, one in town, and two for the return trip.

Hollebeke, located on the old Seminole-Midland trail, boasts the first post office in this section. Prior to this mail was brought from Midland by horseback. About the same time, the Logsdon Post Office was set up on the Shafter-Monument, N.M., trail.

The year 1910 stands out as the year of all years in the county's history — the county was organized and there was a big squabble over the site of the courthouse. Andrews won the bitter election campaign from Shafter Lake after a hard battle.

The county's first officials elected were N. P. Ross, county judge; Will Craddock, sheriff; Andrews King, attorney; Tom Smith, clerk, S. E. Umbertson, treasurer, and Commissioners M. A. Thornberry, Bill Gates, Senator Hill and J. S. Means.

The first school in the county was on the banks of Whalen Lake, a large salt lake 15 miles west of Andrews, south of the Eunice highway. Later, the schools of Andrews, Shafter Lake, Florey and Cobb were set into operation.

In 1910, these five schools in the county opened with an enrollment of 96 students and seven teachers. Salaries ranged from $55 to $112 a month.

At one time, Shafter Lake was the largest town in the county. It had a general merchandise store, post office, gin, "Cowboy" State Bank and a broom factory. A townsite was laid out to include a railroad marshaling yard and a university site. Then some promoters bought up the land around the town, went North and sold townsite lots.

In 1916, the Midland & Northwestern Railroad was built, crossing the east part of the county. It was known by many as the "Beargrass Special." The road operated between Midland and Seminole until 1922. Located on this line were two switches and post offices — Fasken and Hollebeke.

In 1922, the train was making its run and came upon floating crossties — there had been a flash flood. It rained 20 inches in two weeks. Six months later, the train was towed to Midland — that was the end of the "Beargrass Special."

It was not until 1937 that the City of Andrews was incorporated. The first city officials were Wayne L. Phillips, mayor; O. G. Weatherby, secretary; and W. A. Farmer, W. L. Blair, W. B. Evans and Guy McGill, councilmen.

In 1930, the Texas Almanac showed the population of the county was 736.

Prior to the discovery of oil in Andrews County, the early day settlers maintained their livelihood by ranching, farming and some fur trapping during the winter months.

The growth and development of Andrews and Andrews County really began with the discovery of oil in 1929, when the Tripplehorn brothers moved a cable tool rig on a location five miles west of Andrews.

That project, No. 1 C. E. Ogden, opened the Deep Rock pool and Andrews' progress.

For the last several years, Andrews County has been in the top four as the most prolific producing areas in Texas. It has been No. 1.

West Texas oil town gets name from Ira Ann Yates

The names Ira and Ann were put together about 50 years ago to make a name for a new city city in the Permian Basin.

Iraan come to life as an oil town and still is breathing on that basis.

Once the Iraan area in Pecos County was a semi-desert, covered here and there with tumbleweed, yucca plants and low mesquite bushes, Pronghorns, deer, Apaches, coyotes and rattlesnakes were about the only inhabitants of the mesas.

Ranchmen later drove their herds into the region, looking for water and grass. Ira G. Yates, the man for whom Iraan and the great Yates oil field were named, in 1915 acquired 16,640 acres for $41,600 and built a homestead along the Pecos River. He later added more land.

Yates' land was poor and covered with rocks and the price of cattle was low.

In the years immediately following his purchase, the Iraan section of the basin was known to oil men as the graveyard of the wildcatter.

But geologists from the Transcontinental Oil Co. leased acreage from Yates and his wife, Ann. The Ohio Oil Co., through its subsidiary, Mid-Kansas Oil and Gas Co., acquired a half interest from Transcontinental in a 10,000-acre block of land.

Three wildcats were drilled, and the city of Iraan came into being as a result of the third, the discovery well for the Yates field.

After two wells were dry, it began to appear the acreage would be a disappointment.

Then, Frank R. Clark, a geologist who was to become a vice president of Ohio, and A. L. Henderson staked out a third well.

Henderson, who later became manager of Ohio's Terre Haute Division, was in charge of drilling the discovery well.

In the fall of 1926, a cable tool rig was moved into a valley about six miles from the Yates ranch house. Rigging up was completed by Oct. 5, and Henderson and crew spudded the well.

At 990 feet, they began to get substantial shows of oil. About midnight Oct. 28, 1926, the well came in, and some of the men from the rig went to the Yates place to tell Ira the news. Yates said later, "They told me they had brought in an oil well. I went back to bed and slept until my regular getting-up time."

But he allowed it was nice to hve an oil well, specially since Oct. 29 was his birthday.

The story of the well spread quickly to Fort Stockton, Ozona, Texon, Big Lake, Rankin, Sonora and Midland. Before long, the scramble began, with lease buyers rushing in to take what acreage was available.

As new oil wells came in, the operators began to get an idea of the proportions of the field.

The petroleum world was electrified at the potentials and extremely shallow depths of some of the wells.

The discovery well, for instance, after it had been deepened to 1,150 feet, tested 3,036 barrels of oil per hour on New Year's Day, 1929. Pipeliners began laying gathering lines and steel tanks were built on the hillsides to contain the production.

As more and more oil workers poured into the new oil field, Ira Yates did the best he could to make them feel at home.

He added partitions to his barn and converted it into a rooming house. The rooms were equipped with cots and other fixtures, a sheet-iron roof was added to barn, which then was given a coat of bright red paint.

Before long, a small community, Red Barn, which no longer is in existence, was built up around the ranch house.

Iraan, near the discovery well, was founded about the same time. The sight of gushers shooting up, tools hurling into the air and of men running to get out of the way was common.

When the field was defined it covered about 20,000 acres. The wells mostly were all good producers and most of them were flowing.

At fiest, the Yates field, with its enormous output, had only one pipeline connection. The Illinois Pipe Line Co. had a small line connecting with a loading rack at McCamey.

The Operators soon saw it would be necessary to limit production in the field.

What developed was the first successful voluntary proration plan with citizens of Iraan playing an important role in its formation.

A Yates Pool Advisory Committee was organized Sept. 2, 1927, with a representative from each of the operators.

The panel was formed to recommend the most efficient methods of drilling, completing and producing wells.

Later, a Pool Engineering Co. was formed to recommend practices for the conservation of oil and gas. It completed the first fieldwide reservior pressure survey on record and initiated many oil field conservation practices still in use today.

Now, after 50 years of production, most of the Yates wells are still flowing, with the aid of a recently installed flood program.

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Spraberry yields oil

STANTON—Martin County, with hundreds of wells producing from the Spraberry zone in the Spraberry Trend area field, had 10,267,527 barrels of oil production in 1977, making it the 42nd most productive county in Texas.

Operator produced 16,160,549 thousand cubic feet of gas from Martin County fields. The county's oil production was valued at $92,818,444, while the gas brought $14,609,136.

The oil industry paid taxes of $4,269,649 on the oil and $1,095,685 on the gas. Royalty payments totaled $13,428,447.

Exploration in the county, including three wildcat operations and 73 field projects, accounted for an expenditure of $13,340,876.

Of the three wildcats drilled, one was completed as an oil discovery and the other two as dry holes. Sixty-three field wells were completed as oilers and 10 were finaled as dusters.

Three natural gasoline plants process 13.9 million cubic feet of gas per day. The oil industry payroll included 196 persons who received $31,565,808 during 1977.

One strike during '77

CRANE—Crane County, one of the top oil producing areas in the Permian Basin, was the scene of 145 oil or gas tests in 1977.

Four of the tests were wildcats, with one being completed as an oil discovery. The other three were dry holes.

Seven natural gasoline processing plants help extract various products from some of the 169,536,276 thousand cubic feet produced within the county's boundaries, however all the all produced in the county is pipelined to other areas for refining.

The oil production totaled 35,262,109 barrels in 1977. That oil was valued at $318,769,865, on which taxes totaling $14,663,386 was paid to the state.

Taxes on the gas totaled $11,494,560. The take by the state in taxes from the oil and gas was $26,157,956.

The 1,052 persons on the oil industry payroll received $15,039,228 in 1977.

Operators completed 144 oil producers in field areas and one gas well. Seven of the field development wells were dry holes.

The estimated drilling expenditures in Crane County in 1977 was $25,898,412. Of that, $3,867,370 was used in drilling dry holes.

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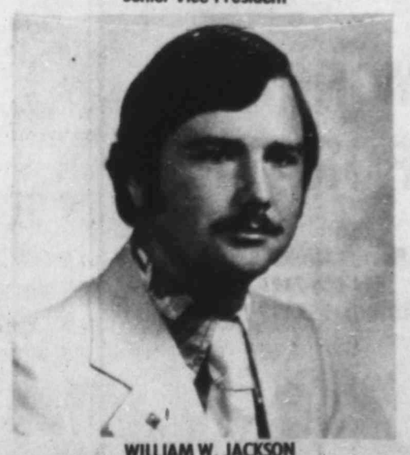
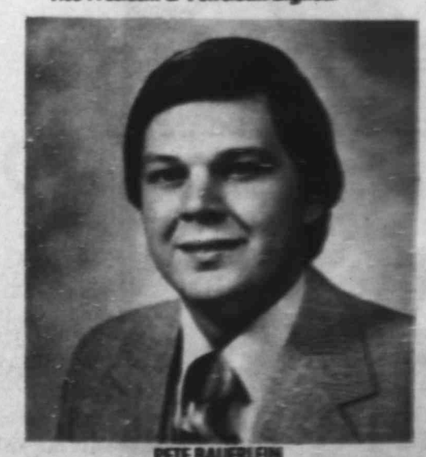


WILLIAM W. JACKSON
Assistant Vice-President & Petroleum Engineer



PETE BAUERLEIN
Petroleum Engineer

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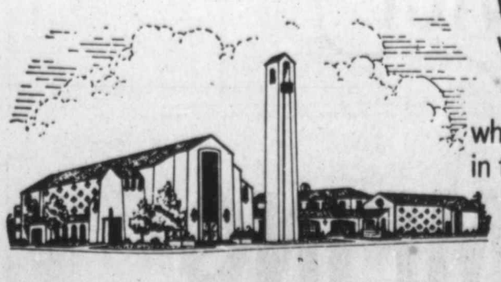

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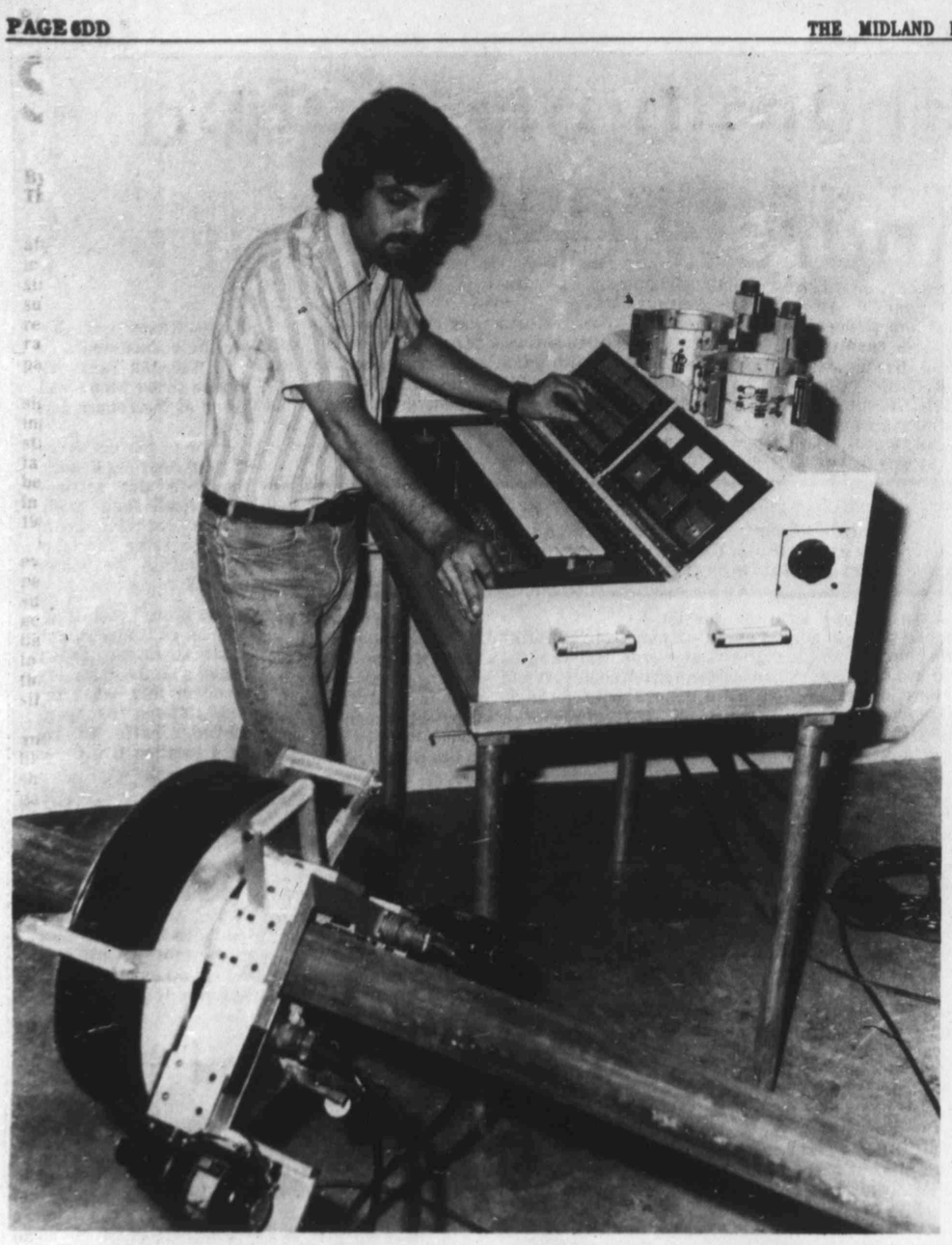

Wilson Company employee checks drillpipe with "buggy" which walks the pipe and relays defect information to the electronic console for interpretation. Other size inspection heads sit on top of console for quick change out.

History of deep producing region dates back to 1943

The Pegasus field which spreads across the Midland and Upton county line was one of the pioneer deep fields in West Texas.

In fact, when the Ellenburger discovery well in the multipay field was discovered in 1949 it was the deepest oil producer in West Texas.

Today, the Ellenburger zone still produces and seven other pay horizons have been found in the area.

In 1976, the Ellenburger alone made 1,059,148 barrels of oil. The cumulative production from the deep zone at the end of that year was 83,090,000 barrels of oil.

Other zones found to be productive in the Midland-Upton county pool are Devonian, Fusselman, Pennsylvanian, San Andres, Spraberry, Wolfcamp and Bend.

The field is 32 miles southwest of Midland.

The story of finding the Pegasus field, named for the familiar trademark of its discoverer—Magnolia Petroleum Co. (now Mobil), one of the Flying Red Horse Companies—is a classic example of the use of so und exploration procedures and teamwork in the application of geological techniques.

It also shows the time-consuming and expensive task involved in exploring for oil.

The history of Pegasus began in 1943 when Magnolia geologists in Midland felt their preliminary findings, based on favorable surface and subsurface structural indications, warranted a thorough geological survey.

Magnolia purchased a considerable amouunt of acerage in the area and an active core drilling program was initiated. Mapping of subsurface conditions was intensified and these studies revealed shallow subsurface structure similar to structure indications in areas already found to contain oil.

Encouraged by their findings, Magnolia exploration experts recommended that a test well be drilled. Before a decision whether to drill a wildcat well is reached, many things must be considered by a company.

At any given time in searching for new oil there are likely to be several promising areas and a company's management must decide where to extend its greatest effort.

The high cost of production and sizable expenditures for a thorough exploration program make it necessary to have available a large sum of money before deciding to drill, especially if it is likely that such a campaign will be a long one and deep oil is the target.

In the case of Pegasus Magnolia decided that the evidence and information was as reasonable and favorable as it could be prior to actual drilling. So the company gave Pegasus a high priority and a location was staked to drill the first wildcat in the immediate area.

In late 1945, Magnolia drilled this first test well to a depth of 8,507 feet. It was dry, but much important information was obtained by the exploration people. After the findings were studied carefully, it was decided to drill a second wildcat test in March 1947.

This second well, drilled to 5,569 feet, also was dry, but it too indicated structure and supplemented the facts the geologists already had in their records. Ever well, both successful and unsuccessful adds to the great unwritten text books on oil exploration.

Armed with facts, Magnolia then undertook a seismic shooting program using its geophysical crew to cover approximately 50,000 acres in the area to confirm or disprove the presence of deep structure. When this blanket survey was completed, geophysicists confirmed the structural information.

March 20, 1948, Magnolia commenced the drilling of a third wildcat, the No. 1-A TXL, prepared this time to drill deeper than ever before in the area.

It was a costly operation, as such wells usually are. Three hundred days were required to carry it down to its maximum depth of 13,295 feet and 30 more days to complete the well in the Ellenburger zone at the plugged back depth of 12,825 feet.

No. 1-A TXL was a good producer. Its initial production flowed at the rate of 1,167 barrels of oil daily, through a ¾-inch choke. The company's exploration and production people knew they had discovered what might turn out to be a major field, but it was an expensive venture.

That discovery well cost $613,055, or a little more than $46 a foot. The 242 rock bits alone cost more than $41,000.

In general, the deeper the well, the costlier each successive foot of drilling. But this frequently has its compensations: deeper wells often result in better pays.

The history of Pegasus began in 1943 when Magnolia geologists in Midland felt their preliminary findings, based on favorable surface and subsurface structural indications, warranted a thorough geological survey.

Wilson company explodes into large manufacturing concern

What once was a small garage shop operation has, within the last year, exploded into a large manufacturing company serving West Texas pipe inspection companies and the world!

The Wm. B. Wilson Manufacturing Co., formerly Inspection Equipment Manufacturing Corp. (IEMCO), began in 1969 with ambitions of becoming the world's foremost manufacturer of nondestructive testing equipment—and they are getting there.

Owned by William B. Wilson of Midland, the company now has sales offices in San Antonio, Houston, Lafayette, La., and one soon to open in Odessa. The manufacturing facility is located in San Antonio.

The Wilson Company, now entering its 10th year of business, sells electronic inspection equipment for oil field tubular products to such far away places as Venezuela, Trinidad, Calgary, Canada, and Aberdeen, Scotland.

Interested buyers worldwide visit the San Antonio manufacturing facilites to view state-of-the-art electronics coupled with modern pipe-handling equipment.

Specific products which can be purchased from Wilson Co. include a drillpipe "buggy" inspection system, a MACH-IV mid-range inspection trailer for tubing and small casing to 5½ inch, and in-plant or mobile inspection units for inspecting up to 13⅜-inch casing used in our oil fields.

The theory of electronic inspection for oil field pipe is not new, but according to Richard Young, Wilson Company executive vice president, "what is new is sophisticated electronics for flaw detection and faster pipe handling capabilities of the inspection units."

"Also," said Young, "we offer the sale of inspection equipment and follow-up service which our customers can count on."

In a recent issue of The Drilling Contractor the importance of modern electronic inspection equipment to the drilling industry is clearly shown in that, "Many wells drilled today cost more than $500,000. Generally for this type well tubulars amount to approximately $90,000 or 18 percent of the total cost.

A supervised inspection of both the casing and tubing string can be conducted for approximately $12,000 or 2.4 percent of the total well cost. Considering the cost consequence of a tubular failure, which can range from $50,000 for a workover to repair a leak, to an excess of $5 million for a blowout, a supervised inspection costs relatively little.

Sales have been very good during 1978, according to Young, due to the "increasing acceptance of Wilson Company inspection products and the availability of service in several locations."

Wilson Company sales employees will be present during the forthcoming Permian Basin Oil Show with a trailer-mounted drillpipe demonstrator. Anyone wishig to have an in-yard demonstration can contact the company at (512) 824-0553 in San Antonio.

Agreement made

OKLAHOMA CITY—Texas International Co. has announced the signing of a farm in agreement with the Columbia Gas System, Inc., involving 17,000 acres in Braxton County, W. Va.

The agreement calls for TI's oil and gas exploration and production division, Texas International Petroleum Corp., which also holds about 23,000 additional acres in the area, to develop the acreage with what could be an 80 to 100 well program over the next four years.

Columbia has a pipeline near the acreage and has agreed to connect wells into its sales line as soon as sufficient gas reserves are developed.

Columbia has sole rights to purchase any gas discovered in the entire 40,000-acre tract.

Lee warns U.S. must move ahead with an orderly energy transition

WASHINGTON—The U.S. must move ahead in making an orderly "energy transition" to alternate energy sources if the economic impact of depleting cheap oil and natural gas is to be minimized, according to James E. Lee, president of Gulf Oil Corporation.

Speaking before the recent 33rd Annual Transportation & Logistics Forum of the National Defense Transportation Association, Lee said the nation wil face a severe energy gap in the 1990s unless we utilize the ensuing decade to offset a projected peak and decline of oil and gas production both here at home and abroad.

"As part of our energy transition," he said, "we will hve to go beyond petroleum and natural gas to other energy sources, predominantly coal, but also additional alternate fuels.

"If we fail to gear up fast enough to make this transition," he added, "the lack of sufficient energy supplies could slow or stop our economic growth."

Lee said Gulf continues to support the "end objectives" of President Carter's energy program despite the proposed natural gas compromise being what he called a "regulatory nighmare."

"We still believe that phased deregulation of gas prices, which is called for in the bill, is an essential ingredient of any energy policy," he said.

On the subject of crude oil pricing, Lee suggested that the President has within his existing statutory powers the means to resolve this thorny issue by simple administration action.

Under a plan proposed by Gulf, the Administration could gradually bring domestic prices nearly into line with world prices by extending price controls due to expire June 1, 1979 until September 30, 1981; increasing the price of lower-tier oil by $1 plus inflation every six months during this period; and by raising the price of upper-tier oil by 25 cents plus inflation every six months.

Gulf Oil Corp. warns that the United States must move ahead with an orderly "energy transition" to alternate energy sources if the economic impact of depleting cheap oil and natural gas is to be minimized. "We must go beyond oil and gas to other energy sources, predominantly coal, but also additional alternate fuels.

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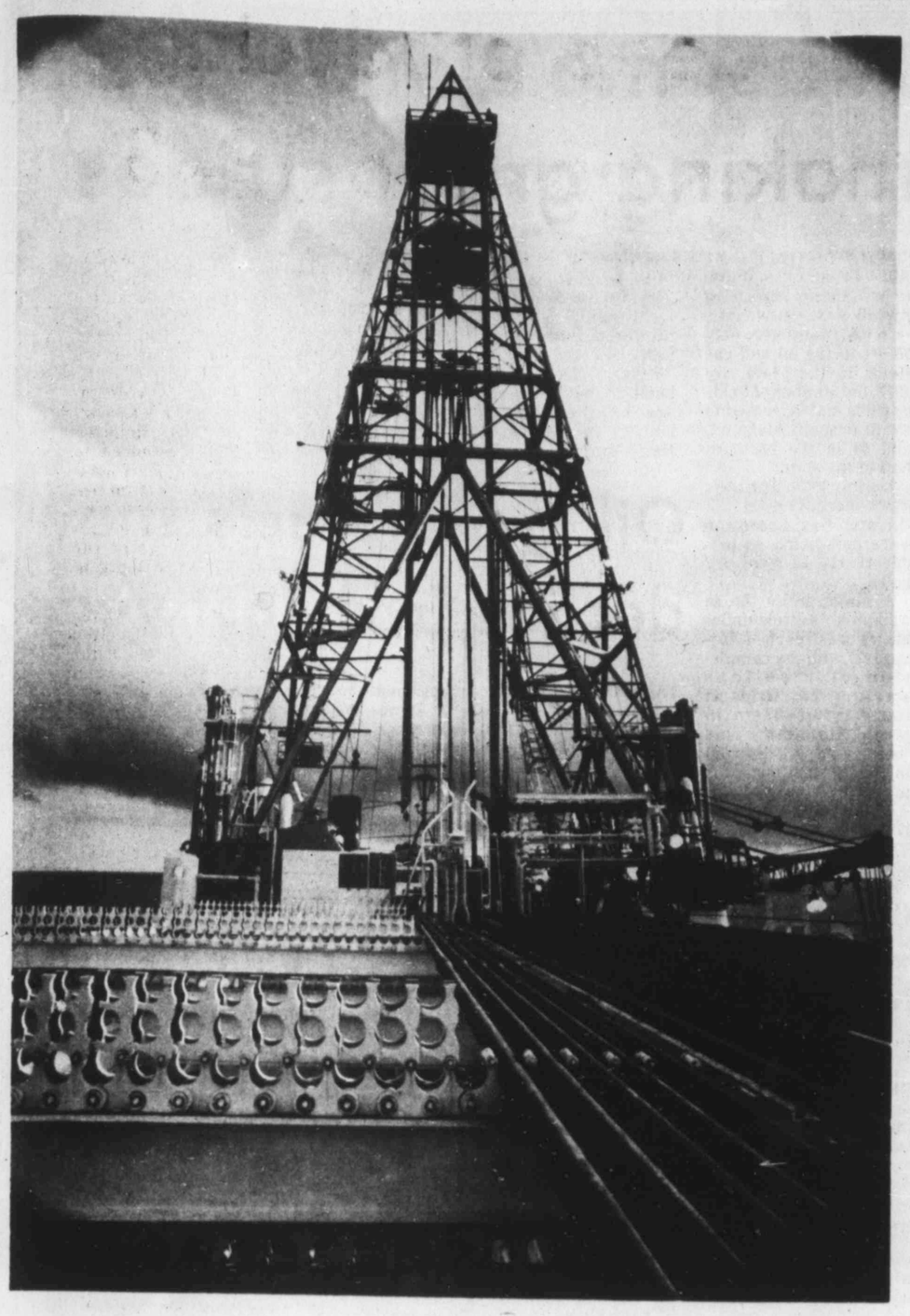

This derrick, mounted at the center of the Glomar Pacific, is used to raise and lower drillpipe and other equipment employed in drilling. Exxon Co., U.S.A. used the Glomar Pacific at the first operation drilled in the Atlantic Ocean off the coast of New Jersey. It was located 95 miles east of the coast in the Baltimore Canyon.

Permian basin petroleum pioneers can now signup

Permain Basin petroleum pioneers can now register for the October 1979 pioneers celebration which will be held in Midland.

The Midland Chamber of Commerce is taking the registration. The only requirement for persons to be a pioneer is that they must have been associated with the oil industry or one of its allied industries at least 30 years before Oct. 1, 1979.

The biennial Permian Basin Petroleum Pioneers Celebration was originated in Midland in 1959.

The celebration is held on alternate years with the Permian Basin Oil Show, and upwards of 700 persons have attended the celebration.

The late Gen. Ernest O. Thompson, who at the time was chairman and senior member of the Railroad Commission of Texas, was the principle speaker at that first celebration.

A group of Midland pioneers were the first hosts of the one-day initial celebration. They were George T. ABell, Harry Adams, Glenn A. Black, R.S. Brennand Jr., P.F. Bridgewater, C.P. Bristol, Paul L. Davis, Gerald FitzGerald, Fred H. Fuhrman, N.B. Garner, R.T. German and J.P. "Bum" Gibsons.

Morgan Gist, O.C. Harper, A.N. Hendrickson, Fred T. Hogan, Wallace W. Irwin, Sol Kelly, Ralph Lowe, Hal C. Peck, John V. Terrill, R.C. Tucker, Fred Turner Jr., W.A. Yeager and R.L. York.

In 1959, the disignation of Permian Basin Petroleum Pioneer was give to any person — man or woman — who worked at any job connected with the exploration, development, production, transportation or processing phases of the oil industry in the Permian Basin Empire prior to Oct. 1, 1929.

Each year, new persons become pioneers by virtue of having been associated with the Permian Basin petroleum industry 30 years.

The Permian Basin is defined as that part of West Texas and Southeast New Mexico south of the north lines of Chaves and Roosevelt Counties in New Mexico and of Bailey, Lamb, Hale, Floyd, Motely and Cottle counties in Texas, and west of the east lines of Cottle, King, Stonewall, Fisher, Nolan, Coke, Tom Green, Sachleicher, Sutton and Val Verde counties.

That area extends to the Rio Grande, from Del Rio to El Paso, and then, north along the west lines of Eddy and Chaves.

Humble well opened first Midland field

Humble Oil & Refining Co.'s No. 1 Mrs. O.P. Buchanan and others was completed in November 1945 as the firsst oil producer in Midland County.

This well was completed from the Pennsylvanian zone 8½ miles southeast of Midland at a depth of 10,330 feet. The total depth of the well is 12,574 feet.

On first test, the well produced 270 barrels of oil and 32 barrels of water per day, through a 11/32-inch choke.

The discovery was abandoned in 1947, but additional exploration and discoveries have made Midland County a substantial producing area in the vast Permian Basin Empire.

Humble's venture followed by more than 20 years the first wildcat try in Midland County. The previous tests failed, but No. 1 Buchanan, which became a one-well field, produced until July 1947. Its production totaled 20,005 barrels.

At the time it was plugged, the well was making 13.35 barrels of oil per day and a "considerable water." The only other test drilled in the original Midland field was Humble's No. 1 Pio Crespi, which proved dry and was abandoned at 11,620 feet in June, 1947.

The original Midland County producer had an average gravity of 45.7 and a gas-oil ratio of 4,350-1. It was located in section 32, William Baldridge survey.

Spudding date was Sept. 14, 1944, and date of completion was Nov. 6, 1945.

Little accomplished 5 years after embargo

WASHINGTON, D.C.—Five years after the Arab oil embargo the nation has accomplished little toward alleviating the effects of a possible new one, the head of the nation's largest oil industry organization said.

To be sure, there have been some efforts toward conservation of energy, Frank N. Ikard, president of the American Petroleudm Institute, said. "Many people are now seeing to it that their homes are better insulated, that their thermostats are kept lower in the wintertime, and that use of electricty is held to a minimum," he added.

"But they are using more gasoline than ever. They are buying smaller cars, but they are buying more of them, and driving them more. Add to that the rise in population, and the total use of energy keeps rising.

"There is an an attempt on the part of the Department of Energy to store enough oil in the ground to last 90 days in the event of another embargo. But this plan is going slowly. Though it has been in effect for three years, as yet there is only six days supply in the ground," the API president said.

Ikard pointed out that although the oil companies' search for petroleum is more intensive than ever, our reserves are continuting to fall.

"Thus, we must import more oil to fill the gap." "To put it bluntly, should an embargo occur tomorrow, we could be more vulnerable than ever," he warned.

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Reynolds joins Houston firm

HOUSTON—Don B. Reynolds has joined Smith Petroleum Co. in Houston as an exploration consultant.

Formerly with Cabot Corp. as senior geologist, Reynolds is engaged in the generationof prospects for future drilling programs to be managed by Smith Petroleum. Duncan D. DuBroff has been named a vice president of Smith Petroleum, with his duties including the management of the company's exploration activities.

Smith Petroleum currently is engaged in the drilling of a 10-well exploration program in the Gulf Coast of Texas and Louisiana.

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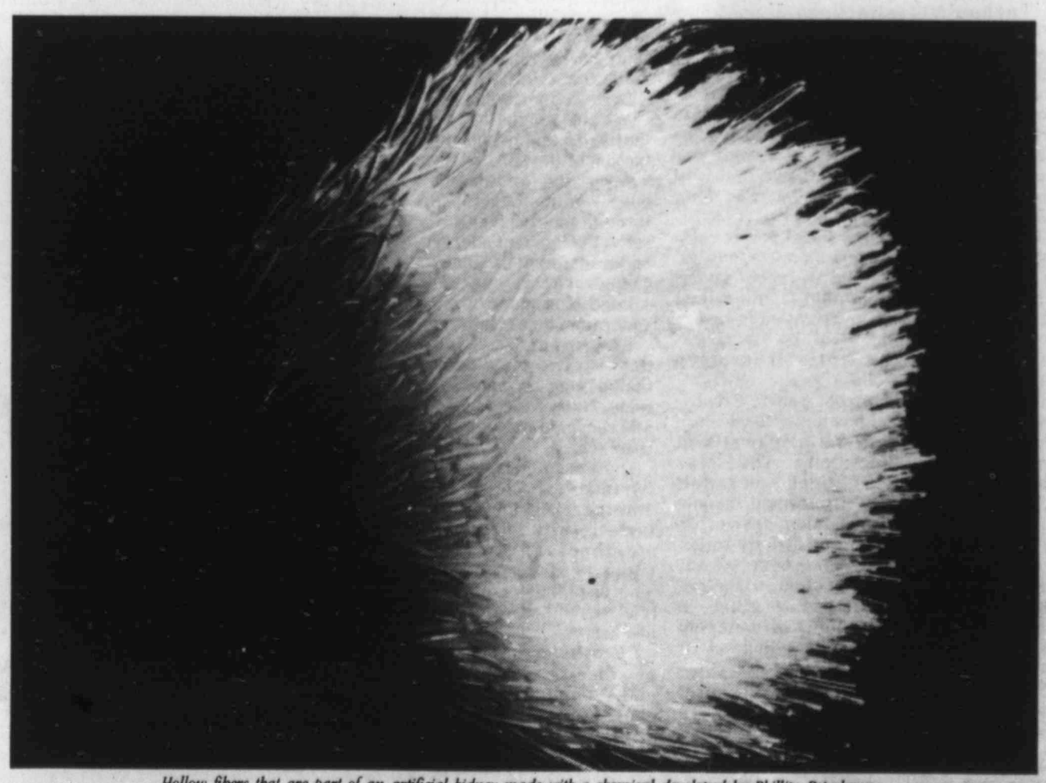

Hollow fibers that are part of an artificial kidney made with a chemical developed by Phillips Petroleum.

Most doctors agree, the best treatment for a patient with severe and permanent kidney failure is the surgical transplant of a healthy kidney from a donor.

But some patients are just not suited for a transplant. Others may need time to recover from the trauma of their kidney failure before they are ready for surgery. Or they must be maintained until a suitable donor is found.

Disposable, artificial kidneys can take over when human kidneys fail.

So for thousands of people whose kidneys have failed, an artificial kidney machine is the only hope for survival.

At the heart of these remarkable machines is a unique, disposable "kidney", that's made with a chemical developed by Phillips Petroleum. It consists of thousands of fine, hollow fibers, specially designed to remove excess fluid and impurities from the blood stream.

These fibers are so effective, a patient's entire blood supply can be purified by spending just a few hours on an artificial kidney machine, two or three times a week.

So thousands of hospital-based outpatients who are waiting for a healthy kidney from a donor can now lead full and productive lives.

Developing lifesaving chemicals while we make fine products for your car. That's performance. From Phillips Petroleum.

The Performance Company PHILLIPS 66

This is neither a re-enactment of the Iwo Jima flagraising nor training for destruction of football goal posts. But there is just as much excitement as Crosbyton officials and employees erect a sign designating a 10-acre test site for the 65-foot diameter, spherical-shaped solar energy collector to be built in the West Texas farm community.

Fixed mirror distributor focus solar collector being installed

DALLAS—Systems Energy Technology Center (ETC) of Garland has received a $1.4 million subcontract for addiotnal study and construction of a fixed mirror distributed focus (FMDF) solar collector at Crosbyton.

The funds are part of a $2.5 million contract from the U.S. Department of Energy to Texas Tech University—the prime contractor—for the last study and prototype phase before construction of the proposed 5-megawatt solar power system.

Current work, expected to require 20 months, calls for construction of a 65-foot diameter mirrored spherical shaped bowl to support the feasibility of the system.

The city of Crosbyton has deeded 25 acres to Texas Tech for the test site, which fronts FM 651, across from the Crosbyton Municipal Airport and south of the city. Additional acreage has been reserved for the proposed future construction of the"solar gridiron" of 10 200-foot diameter bowls. That final phase would cost an estimated $22 million.

The Northwest Texas farm community of about 2,500 persons has zealously pursued and promoted the solar demonstration project for 2½ years. Local power costs have risen more than 300 percent in recent years, biting into farm income, since irrigation is tied to electrical pumps drawing water from deep wells.

In past years, Crosbyton has never used more than 3.2 megawatts of electricity. The solar plant, with a 5-megawatt capacity, would handle future town growth as well as electricity for irrigation. About 166,535 acres—cotton, soybeans, wheat and sorghum—in the county are dependent on irrigation.

Dr. Walter Hesse, vice president and general manager of ETC, said the FMDF solar thermal electric power plant uses the spherical shaped mirror to focus incident solar energy on a linear receiver (line focus). The receiver pivots on a two-axis mount, automatically following the motion of the sun.

A working fluid, in this case water, is pumped through the receiver, absorbs the incident energy and transfers it as superheated steam through insulated pipes to a turbogenerator, he explained.

The spent working fluid is discharged from the turbine, reduced in temperture and pressure and recycled through the receiver.

Dr. John Reichert, Department of Electrical Engineering at Texas Tech, reports 30 faculty members and many graduate students from nine disciplines currently work on the Crosbyton project.

"Crosbyton is ideal, because it is not special," emphasized Reichert, who is program director. "Its just a little town in dry West Texas with rising power costs and fine people. Now, obviously, no one is going to put a multimillion dollar experimental plant there just because of that.

"But we will be producing 900 degrees to 1,000 degrees temperature steam and 850 pounds per square inch pressure. Anyon can run real modern turbines off that. So from Florida to California, the whole country can make use of the technology we perfect here."

E-Systems Energy Technology Center is a two-year old operation engaged in the emerging field of solar thermal-electric energy, solar heating and cooling.

Alabama's oil search making great strides

MONTGOMERY, Ala.—Oil and gas activity in Alabama has grown rapidly in recent years.

In 1967, there were only 10 producing oil and gas fields in the state. By 1977, the number of fields or pools had increased to 55: 31 in south Alabama, and 34 in the northern half of the state.

During 1977, 129 tests were permitted by the Oil and Gas Board, 70 were completed as producers and 51 were dry holes.

A major milestone in Alabama's petroleum industry was reached during 1977 with the completion of pipelines servicing gas fields in the Warrior Basin in north Alabama. This basin rapidly is developing into a significant gas producing area.

Eighteen new fields or pools began producing in 1977, bringing the total number of fields to 24. At the beginning of that year, only seven gas wells and 12 oil wells were producing in the Warrior Basin. By the beginning of this year, there were 71 gas wells and 14 oil wells, with an additional 40 gas wells waiting on pipeline connections in the basin.

Several factors contributed to the rapid acceleration of oil and gas activity in the Warrior Basin during 1977: The completion of pipeline facilities that provided previously shut-in gas wells a market outlet; avery high percentage of drilled wells completed as sproducers (65 percent in 1977); and the existence of multiple pools at relatively shallow depths—1,300 to 4,500 feet.

Alabama's oil production in 1977 was 11,303,339 barrels, up five percent from 1976. Gas production was 61,554,766,000 cubic feet, up 40 percent from 1976. Condensate production was 6,952,553 barrels, up 52 percent from 1976.

NKK inks contract

HOUSTON—NKK (Nippon Kokan K.K.) has signed a $17-million contract to build a jack-up rig in Japan for JFP Well Service, Inc., Texas, for delivery by September 1979.

The rig, to be used for offhsore oil development, will work in water depths of up to 250 feet and will have a drilling capaciaty of over 20,000 feet. NKK will use the BMC electro-hydraulic jack on the rig.

Last month, NKK acquired rights for the manufacture and marketing of Baker Marine Corp. (BMC) jack-up drilling rigs in Japan on an exclusive basis for seven years.

The new agreement permits NKK to manufacture and to sell the BMC jack-up rigs using BMC electro-hydraulic jacks and Baker Marine Engineers' electric-driven jacks.

The agreement also gives them rights to manufacture and to market BMC jack-up rigs on a non-exclusive basis in foreign countries, excepting Malaysia, Thiland, Indonesia, the Philippines and Singapore.

NKK, Japan's second largest steelmaker and a leading heavy industry contractor and shipbuilder, engages in offshore development projects including submarine pipelines, drilling platforms and storageTtanks.

Oil, gas projects show decline from last year

AUSTIN-Applications for permits to drill oil and gas tests in Texas totaled 14,123 in the first eight and a half months of 1978, compared with 17,427 in the same period of 1977.

Applications to drill, deepen, plug back and for service wells in the 1978 period amounted to 16,758 against 19,309 in the year-earlier period, the Railroad Commission's Oil & Gas Division reported in a preliminary summary.

The report showed 854 applications to drill new oil and gas tests were filed from Sept. 1 through Sept. 15, 1978. Applications to drill oil and gas tests totaled 993 in the year-earlier period.

The report also showed 17 oil discoveries and 61 gas discoveries were completed in Texas in the Sept. 1-15 period.

Oil discoveries included seven in West Central Texas, two each in deep South Texas and North Texas, and one each in Southeast Texas, the Refugio area, East Central Texas, Midland San Angelo and Panhandle areass.

Gas discoveries included 23 in deep South Texas, 13 in West Central Texas, nine in the Refugio area, five in Southeast Texas, two each in the San Antonio, Panhandle, East Central and East Texas areas, and one each in the San Angelo, Midland and North Texas areas.

The Oil and Gas Division listed 10,251 oil, gas or service well completions in the first eight and a half months of 1978, up from 9,146 a year ago.

There were 286 oil completions in the first half of September 1978 against 276 in the same period last year. There were 268 gas completions in the 1978 period against 125 in the year-ago month.

In the Sept. 1-15 period, 85 exploratory and field tests wound up as dry holes.

Scouts plan 'check' meet

W. C. Kimble of Midland announces that the Permian Basin Pioneer Oil Scouts Association will meet Tuesday in the Elks Lodge, 711 W. Indiana Ave. in Midland.

The event is the annual "check" held by the organization in conjunction with the Permian Basin Oil Show and the Petroleum Pioneers Celebration.

The meeeting will begin at 7 p. m.

Membership is restricted to all persons who attended an organized check meeting in West Texas or Southeast New Mexico at any time, including the present.

"If you think you are eligible, you are," Kimball said.

Admission is free to those persons whose $5 annual dues are paid.

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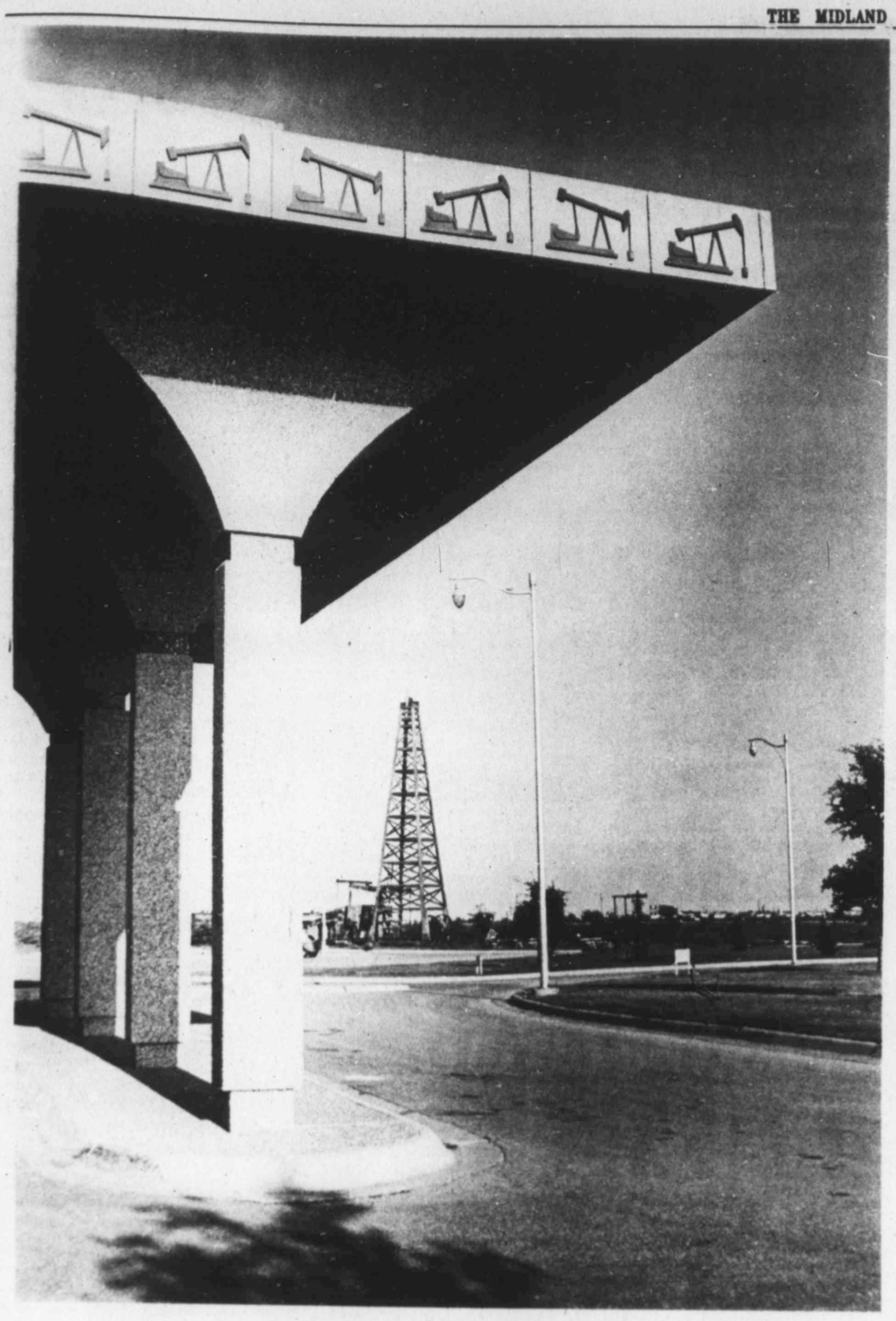

The Permian Basin Petroleum Museum, Library and Hall of Fame is expected to see its visitations increased during the four-day Permian Basin Oil Show that starts its run Wednesday at the Ector County Coliseum complex. Show visitors will have a chance to tour the museum, one of the best of its kind in the world, and see some of the finest oil field art work in the nation. Visitors also will see scores of old-time oil field equipment in the museum's huge outdoor exhibit, including pump jacks, tanks, and numerous types of drilling rigs. One of the features of the museum is the exhibit of the Permian Sea reef buildup as it appeared millions of years ago. The museum will observe its usual hours during the show. It will be open from 9 a.m. to 5 p.m.

Larsen elected vice president by Occidental

LOS ANGELES, Calif.—Bernard L. Larsen has been named a vice president of Occidental Engineering Co. of Irvine, Calif., it was announced by Spencer Flournoy, president.

Larson is responsible for domestic and overseas projects for Occidental Engineering Co.

A subsidiary of Occidental Petroleum Corp., Occidental Engineering undertakes the engineering and construction of process plants, terminals and pipelines on an international scale.

Larson joined Occidental Engineering in 1976 as manager of construction for the Flotta Crude oil terminal in the Orkney Islands.

Immediately prior to that, he conducted an independent consulting engineering practice.

His experience covers 29 years of engineering and construction on projects as well as being an oil field equipment specialist.

He has worked extensively in the Middle East and North America.

Larsen was graduated from Stevens Institute of Technology with a B.S. degree in Mechanical Engineering and is a registered professional engineer.

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Membership Drive

One solitary factor affects the economy of the entire Permian Basin — the price of oil and gas.

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When cheap imported oil knocked the bottom out of the domestic oil and gas industry, you could buy a two bedroom house in Midland for $1,000. Today, with a boom in the making, the same house sells for $20,000.

PBPA is the only association in the Permian Basin, working fulltime in the legislative-regulatory arena for and against policies that affect the economic health of the oil and gas industry in the Permian Basin.

No matter what business you are in, in the Permian Basin, you need the efforts of PBPA and we need your support.

The more members we have the more impact we make in Washington, Austin and Sante Fe, and the stronger our budget the more effective we do our job.

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Permian Basin Petroleum Association

Oil industry can keep clean environment

WASHINGTON—The petroleum industry believes this country can meet its energy goals and still have a clean environment.

However, "that is not the same as saying we can meet our energy goals and still adhere to the standards of the Clean Air Act," the American Petroleum Institute (API) noted in a recent report.

The API says the public favors balanced solutions to environmental, energy, and employment problems. A recent series of Lou Harris polls found that people do not want growth without clean air or clean air without growth. "They are convinced we can do both," Harris said.

"The emphasis on a cleaner environment over the past decade has been essentially constructive and in the public interest," the API said, but recent amendments to the Clean Air Act set unreasonable standards which will handicap national efforts to increase employment and to break the country's growing dependence on foreign oil.

Standard Oil Co. of Ohio (Sohio) wants to build a tanker terminal in Long Beach, California, and pipe Alaskan oil from there to Midland, Texas.

Sohio has agreed to use the best available technology on the new facilities, including the oil tankers, which will burn clean fuel long before reaching port. The company has offered to pave some dusty roads and buy pollution-control equipment for several nearby businesses to compensate for emissions from the terminal.

After two years of intensive negotiation and $25 million spent by Sohio on planning, state and local air pollution officials were still negotiating with the company over which facilities owned by others Sohio must clean up. The officials wanted Sohio to add a nearby power plant to the list and suggested that the total clean-up should cost more than $100 million.

"In our drive toward cleaner air, we need to take another look at what our targets should be," the Institute said. It noted:

Recent amendments to the Clean Air Act set unreasonable standards, handicapping national efforts to increase employment.

—In many cases, the data supportinng the federal restrictions are slim or nonexistent. Newer and more complete data support less strict standards.

—The standards go far beyond public health, setting impossible zero-risk goals.

—Pursuing these goals will place increased costs squarely on the shoulders of the public. Consumer prices will rise when plants are forced to install unnecessary controls that soon become "white elephants." Jobs will be wiped off the drawing board when plants cannot be built.

"The Act has led to such a maze of rules and regulations that even the experts—businessmen and government regulators alike—are often confused." The API statement quotes an attorney in the Environmental Protection Agency's (EPA) regional office in Chicago as saying, "The Clean Air Act Amendments of 1977 will never be understood by anybody."

The huge maze of rules and regulations keep businessmen and government regulators confused.

Industry often does not know how to travel the regulatory maze even with the best intentions and the best pollution controls.

The federal regulations have gone beyond requiring clean air to demanding ideal air, the API said, and this can be very expensive if not impossible in the real world.

"In some cases, the Act can make an energy cleaning up the last 10 percent can cost 10 or 20 times as much as the first 90 percent for each pound is removed. But most of the benefit came when the first 90 percent was removed.

U.S. Commerce Secretary Juanita Kreps suggests the consuming public be told: "We can be as pure environmentally as society wants us to be. But we will have to include the cleanup costs in the prices of the products we sell." She adds that the public "may be willing to settle for 95 percent purity, given the cost of the other five percent."

DuPont says 30 percent of its capital spending over the next decade will be for pollution control of all kinds, but that only one-fourth of this expense will produce significant environmental gains.

The $3 billion that will go for pollution control would otherwise mean 27 new plants, 20,000 jobs in DuPont, and more jobs in related customer industries. When spent on unnecessary controls, it means fewer jobs and higher prices.

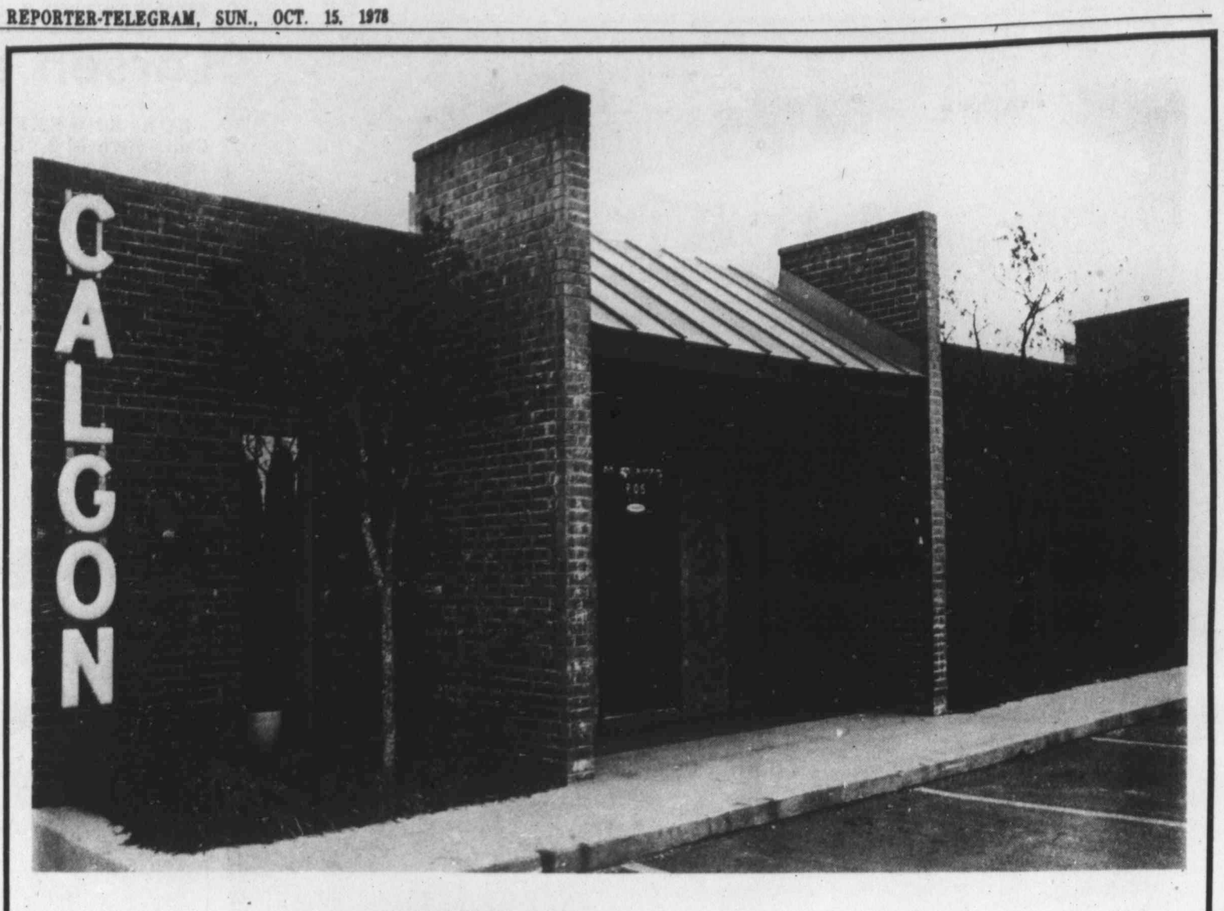
The measure of the problem is not one of plants closed by the Clean Air Act compared with plants built to manufacture anti-pollution equipment. The problem is plants that cannot be built and jobs that cannot be created, the API said.

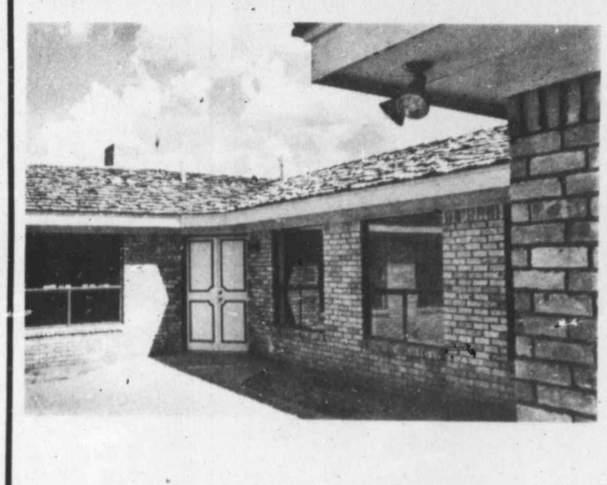
The Clean Air Act ignores inflation and unemployment. The list of blocked and threatened projects is growing.

The Hampton Roads Energy Co. has been trying for eight years to build a refinery in Portsmouth, Virginia. It would provide 3,000 construction jobs and 500 permanent jobs, plus hundreds more supporting jobs outside the refinery.

It is backed by organized labor groups. It would be the cleanest plant that modern technology can build and would produce low-sulfur fuel—an environmental plus. It has received all necessary permits except one, and EPA had given preliminary approval.

But the area—without the refinery—exceeds the air quality standards, and EPA announced two years ago that the refinery was "environmentally unacceptable." Then, in June of this year, the federal government formed a task force from six different departments to study alternate sites for the refinery, despite several existing technical studies that led to the original site selection.





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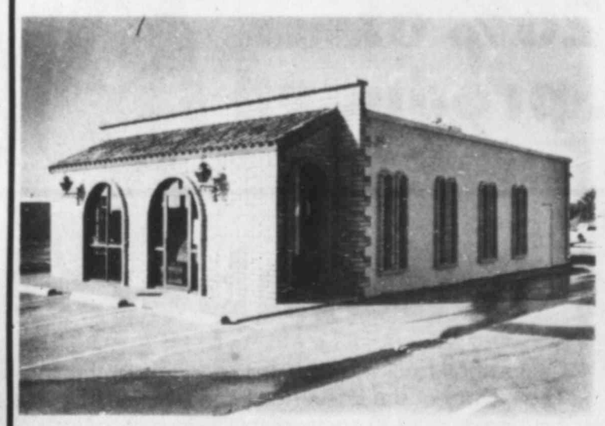

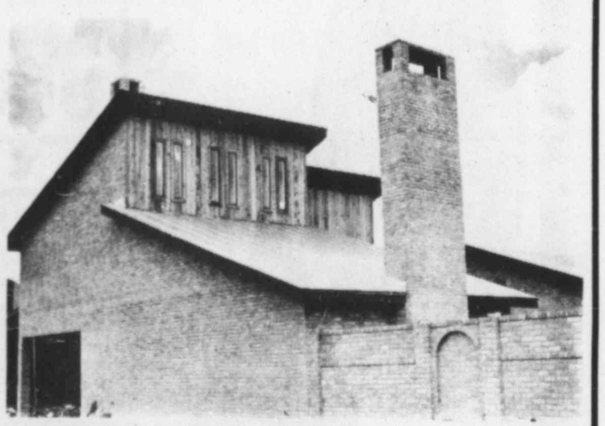

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CAMERON, WHERE ONE GOOD THING ALWAYS LEADS TO ANOTHER.

Dawson history typical of WT development

The history of Dawson County, which became the nation's top cotton producing county in 1975, is colorful and typical of the development of much of West Texas.

Dawson County was one of the first areas in West Texas to become permanently settled.

On May 12, 1827, a part of the area now known as Dawson County, was included in a land grant issued by the Mexican government to Dr. James Cameron; in February 1828 another portion of the county became part of a similar grant given to Stephen J. Wilson and Richard Exeter.

In June 1833, Beales and Wilson sent a group of men to survey the grant; however, the survey was not finished because of severe weather conditions. The earliest actual exploration of the territory was in 1860.

Dawson County was created officially from Bexar Territory Feb. 1, 1858, and on Aug. 21, it was attached to Howard County for judicial purposes. The county was named in honor of Nicholas Mosby Dawson, a second lieutenant of Company C at San Jacinto. In the spring of 1875, a surveying party for the Texas and Pacific Railroad explored the region, but considered it to sandy for settlement.

The county was the scene of many Indian battles, but by 1876 when Col. C. C. Slaughter established his ranch, extending from the Colorado River to the Cap Rock, most of the Indians had been driven off their native plains. The Slaughter Ranch, along with the TJF, the First Ranch, and the A-Bar Ranch, covered almost the entire county until 1900 when the cattlemen's leases on the state-owned school lands expired and the lands were placed on sale.

Dawson County was created officially from Bexar Territory Feb. 1, 1858, and on Aug. 21, it was attached to Howqrd County for judicial purposes.

The "Four Section Act," enacted by the state legislature about 1900, brought droves of settlers to Dawson County, where they could buy four sections of land at one or two dollars per acre, with 40 years to pay at three percent interest.

Cowboys and nesters camped at the courthouse in Big Spring two to six weeks before the land went on sale, creating a great deal of confusion and causing many fights.

The quarrels brought on by the "land rush" continued until 1905, when the laws were changed and the land placed in the hands of the commissioner of the General Land Office, who was required to sell the land to the highest bidder.

Land values began to climb, and after the arrival of the Santa Fe Railroad in 1910, Dawson County land was listed at $7 to $10 per acre.

In 1903, Frank Conner, an employee of the Slaughter Ranch, decided his home section, being near the center of the county, would be a desirable site for a town. He organized a townsite company, whose 15 directors employed C. C. Cody Jr. to plot and survey the townsite on 160 acres of Connor's land. The name "La Mesa," meaning "the tableland," was adopted, with the spelling Anglicized to Lamesa.

An election was held March 20, 1905, to determine the county seat of Dawson County and to elect the first county officials.

Rivals for county seat were Lamesa and Chicago (two miles north of Lamesa), each claiming to be the geographic center of the county. Lamesa won the election by only five votes.

March 21, 1905, a mass meeting of Lamesa citizens was held, and a committee was instructed to go to Chicago and invite the citizens to move to Lamesa, where they were to be offered lots in town and help in moving. On the way to Chicago that morning, the committee met the citizens of Chicago coming to tell the Lamesans they wanted to move to Lamesa and help build one good town. The spirit of friendliness and cooperation shown by these early settlers has continued, and has helped make Lamesa one of the leading cities of the South Plains.

Regular county proceedings soon got under way. A courthouse was built; county roads were laid out; and school election districts were formed.

The first school was a one-room frame building erected in 1904.

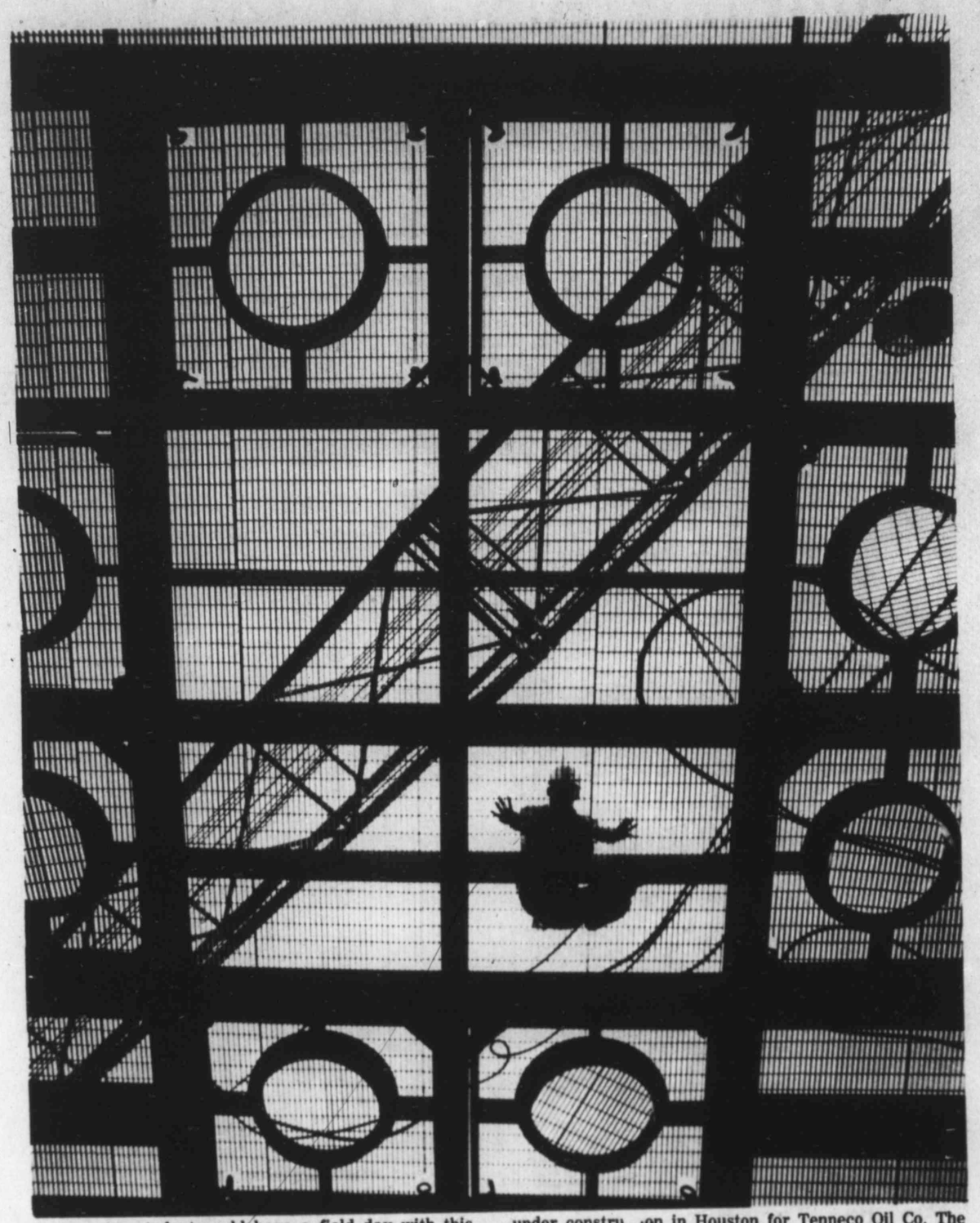
Dawson County's history has centered largely around the agricultural interests of its citizens, for most of its people are farmers. The first bale of cotton in Dawson County was raised in 1903, and the first gin was built in 1906.

Today, cotton is the leading agricultural crop.

Ranching, too, has its place in the county. When it was created, it was devoted entirely to ranching, but the ranches had to make way for farms after the school lands were sold. The county still boasts of several large ranches.

Oil became a part of the Dawson County scene when the Cedar Lake field was discovered in the 1930s.

Now, there are several good producing areas in the county, including the Cedar Land and Welch fields.



A geometry student could have a field day with this varied assortment of circles, squares, rectangles, triangles and trapezoids. You are looking straight up at the upper deck of an offshore drilling and production platform under construction in Houston for Tenneco Oil Co. The platform is being built for installation in the Gulf of Mexico.

125 operations dug in Andrews in 1977

ANDREWS—Oil and gas operators drilled 125 oil and gas tests in Andrews County in 1977—two wildcats and 123 field operations.

The two wildcats were completed as dry holes, while 106 oil wells and 11 gas wells were completed. Six of the field projects were dry holes.

In drilling the wells, the operators spent an estimated $28,494,301 on the producers and $2,437,896 on the dry holes.

The Andrews County production in 1977 was 46,904,788 barrels of oil and 39,784,720 thousand cubic feet of gas. The oil was valued at $424,019,284, and the gas was valued at $35,965,387. Total value from both is $459,984,671.

Royalty payments on the production totaled $57,498.084.

The state received $19,504,887 in taxes from the crude, and $2,697,404 from the gas production. The total tax to the state was $22,202,291.

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'Plugging' just doesn't have that exciting sound

(EDITOR'S NOTE: The following story, reprinted from Texas Today, publication of the Railroad Commission of Texas, was written by Robert Ochoa, associate editor of the magazine.)

AUSTIN—The term "well plugging" certainly doesn't have an exciting ring, but what it means to the Railroad Commission does carry a tremendous impact on efforts to maintain a clean Texas environment.

If properly completed, a well plugging is supposed to permanently close off an oil or gas well so that residual hydrocarbons or salt water deep inside the well cannot rise to the top and leak out, or worse, spill below the surface into a fresh water zone where the leak is harder to detect.

"Just as an example, if 1,200 wells were leaking 10 barrels of salt water a day into a creek, that amounts to an enormous pollution potential."

Those are the words of Director Phil Russell of the Oil and Gas Division's Field Operations Section. Russell, together with 199 hard working men and women dispersed throughout 10 sprawling RRC districts, oversees just about every aspect of an oil and gas well drilling operation—from the clearing of a well site to checking the quality of hydrostatic pressure balancing muds—and then some.

Monitoring and supervision of well pluggings represents just a fraction of Field Operation's responsibilities. But that fraction measures up to mighty important proportions. When Russell speaks of 1,200 wells leaking 10 full barrels (that is 12,000 barrels) into a creek each day, the point is there are approximately that many wells which the commission alone has had to plug all over the state since 1968 with special funds provided by the state legislature. Twelve thousand barrels of salt water is 12,000 barrels more of salt water than our fresh water creeks need.

Some of the now-plugged wells were salt water gushers—dry of oil or gas—left uncapped and abandoned by disheartened operators. Others just trickled salt water or leftover oil that formed unsightly pools and smothered surrounding vegetation.

"We had one well out there in Mills County which after we had cleaned it out started spouting 1,500 barrels of salt water a day. It liked to have cleaned us up," recalls Russell. He can also remember a well in the Wichita Falls area which was found leaking up to 20 barrels of salt water daily into a tributary of the Wichita River until the commission was finally authorized to plug it.

There's some real odd places, too, where unplugged wells have turned up. Try on for size an old hat factory in Corsicana. "Oil started coming up through the floor in the hat factory," recalls the Field Operations chief. "We used some of our engineering dexterity to plug that well without tearing up the building. We got to it through a window with all the equipment right outside by running in all the hoses and everything else through flexible pipe."

As an example of the lengths the commission's field operations task force goes through to protect our state's environment, leaking wells have been plugged under 46 feet of water in an East Texas lake. A north-Central Texas drought once dropped the level of Lake Brownwood enough to expose three abandoned and uncapped wells there that were leaking small amounts of oil and gas. "We got in there and plugged them before the next rain," Russel said.

How's that for commission response time!

Plugging wells and making sure they don't pollute is a serious business of the commissions, particularly in an oil and gas rich state like Texas where there are currently more than 180,000 active and producing wells. No one really knows the total count of wells in the state's producing history which goes back to the mid-1800s. There could be abandoned wells out there lost in the brush country, under river bottoms, in the middle of a cotton field or watermelon patch or buried somewhere in the East Texas piney woods.

In all pracrticality, the take-them-as-they-come approach seems to be the best way to cover it, thus far. If signs of pollution are detected, go in and plug the well.

As Russell explains, there are some areas in the state where even a bad plugging job by an operator will suffice because the characteristics of the substrata permit it. But other areas like the San Angelo and Abilene producing provinces there exist subsurface zones from 800 feet to 2,300 feet which are saturated with salt water and with enough pressure to flow at the surface.

"Drilling into it, you're asking for trouble," Russell notes. "A long time ago, operators who drilled in the region did not cope with the zone by casing their holes. They drilled through the zone without properly mudding the wells which could have led to blowouts. If not properly plugged, the salt water will creep up the well and migrate all over the countryside."

Each day brings news of a landowner's or operator's discovery of yet another leaking well that either wasn't capped properly by the operator or was just left behind. A habit of some frustrated operators is to dump every conceivable oilfield tool, including the drill bits down a dry hole. If it's not plugged and later discovered, all of that junk has to be pulled out, and the well properly plugged.

In order to get a better feel for plugging operation, Texas Today arranged to be on the scene of a commission-supervised plugged in Van Zandt County, just outside Grand Saline. It seemed ironic witnessing the plugging of a well drilled back in 1936 which probably could never cause as much pollution as that comming from the mining operation leaking more than a quart of salt water a day nearby a town that sits on top of one of the largest salt deposits in the country.

Grand Saline gets its name from the salt that is everywhere. A building made out of solid salt blocks sits smack in the middle of Grand Saline.

A big name salt refining company operates on the town's fringes. That is where the irony came to mind. Evidence of surface salt runoff was everywhere, even in a creekbed that cuts across the company's grounds.

But off we went to plug a well drilled 42 years ago that couldn't be reached until three feet of topsoil was bulldozed away.

The landowner had complained to the commission of chalk-colored salt residue that had accumulted on the surface after four decades of leaking from the well. Vegetation was dying around the spot.

Don Clements plugging expert in the commission's Districts 5 and 6 headquartered in Kilgore, was on the scene.

His thorough and months-long investigations on these unplugged wells to get to the bottom of who's responsible has made Clements pert-near an expert historian on the district's 47-county region.

Clements roves a chunk of territory that equals about one-sixth the size of Texas. Digging through old court records and such turns up many interesting pieces of information.

Since 1968 when the legislature approved $300,000 annual appropriations to the commission for emergency well pluggings, Clements has personally supervised a good portion of nearly 300 pluggings in his districts.

The one outside of Grand Saline would be a routine one. Cost to the state of Texas would run about $5,000. That is cheap compared to the one that cost $25,000 to plug.

Often times, oil companies which are found responsible for the plugging will pay for it or may even contribute to plugging a well on an adjacent lease.

Landowners where the well is located are second in line for cost liability under Texas law. If an emergency is declared or no one will help defray the cost, tax dollars become the sole financier.

The commission's plugging rule (Rule 14B2) requires that a well be plugged within 90 days after drilling or production has ceased.

"Sometimes we find that at the end of that time we can no longer find those responsible for plugging it," says Russell. "If we have reason to believe that this may happen, we require a bond or letter of credit covering cost of plugging in case of default." Violators can be fined up to $1,000 a day.

Clements surveyed the old well site awhile when a massive diesel truck with a portable drilling rig rumbled up the narrow country road leading to the property. Clements had already cleared the area for the trucks to set up their equipment. The private company which specializes in plugging would enter the well bore to clean it out of any debris (some discarded equipment is salvagable and any sale proceeds to to the commission.)

Railroad Commission of Texas 'plugging' experts have run into some mighty interesting situations when someone sounds the alarm that an old abandoned oil or gas test has suddenly sprung a leak. Once they were called to a hat factory, and on another occassion plugged a hole far below water.

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