

COLLEGE FOOTBALL SCOREBOARD

Texas A&M	35	Baylor	29	Michigan	31	Arizona	21	Colorado	24
Rice	9	Houston	23	Indiana	3	Stanford	6	Oklahoma	24
Miami	45	Kansas	50	Alabama	17	Washington	24	Boston College	35
TCU	10	Iowa State	47	Tennessee	10	Oregon	3	Penn State	32

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SUNDAY

NEWS WATCH

Town Hall meeting

District 2 City Council member Julius Brooks will hold a Town Hall meeting at 7 p.m. Monday at Casa De Amigos, 1101 E. Garden Lane. The meeting is open to all District 2 residents. District 4 council member Claudia Egan has held two similar meetings for residents of her district since August. The purpose of the meetings is for residents to raise issues of concern regarding the city and to ask questions about city operations.

United Way report

Marshal Jess Parrish is calling one more town meeting for 11:30 a.m. Thursday at Centennial Plaza. This will be the final report luncheon for United Way of Midland before the Showdown comes on Nov. 10. The event is free and the public is invited. A series looking at United Way agencies continues today. /1C

World 'vital signs'

WASHINGTON — People are smoking less, countries are cutting back armies and nuclear weapons, and industry is producing less oil and fewer ozone-destroying chemicals. Could the world be turning into a better place? Not yet, the Worldwatch Institute said in a report Saturday. But there are encouraging trends. A look at 36 environmental and social indicators in the report "Vital Signs" still shows trouble signs. /9A

Campaign trail

ROMULUS, Mich. — Bill Clinton basked in endorsements from 200 current and former prosecutors Saturday as he criticized President Bush's law-and-order record and sought to shield himself from soft-on-crime attacks in the campaign's final days. "What I promise you is a partnership — not rhetoric, not hot speeches, not cheap 30-second television ads but a true partnership," Clinton said. "I do not promise miracles in the fight on crime, but I understand what it is like." Clinton's offensive came as he arrived in Michigan to prepare for Monday night's debate finale with Bush and Ross Perot, perhaps the last best hope for Bush to reverse the dynamics of a campaign Clinton has dominated since the summer nominating conventions. /8A

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Then press 1200 for
NEWSLINE -- local, national
and world news highlights.

Russia sells to China Beijing buys republic's weapons, technology

■ Pentagon officials worry transactions could trickle down to Third-World buyers.

By Michael R. Gordon
N.Y. Times News Service

WASHINGTON — In a move that is undercutting efforts to stem the spread of arms, Russia is selling missile-guidance technology, rocket engines and other advanced weapons systems to China, its one-time adversary, American officials say.

The exports to Beijing worry Bush administration officials, who fear that a main reason the Chinese are acquiring the technology is to develop new weapons to sell to the Third World.

"Re-export is a big problem," a Pentagon official said. "You don't know what the Chinese will do with the stuff once they get the high-tech capabilities."

Russia's arms sales have become a growing worry for Washington even as its military threat has shrunk. Moscow's reduction in military spending, combined with a desperate need for hard currency, has led arms factories and military-related institutes to look abroad for orders to survive. At the same time, conversion of military industries to civilian production has proved

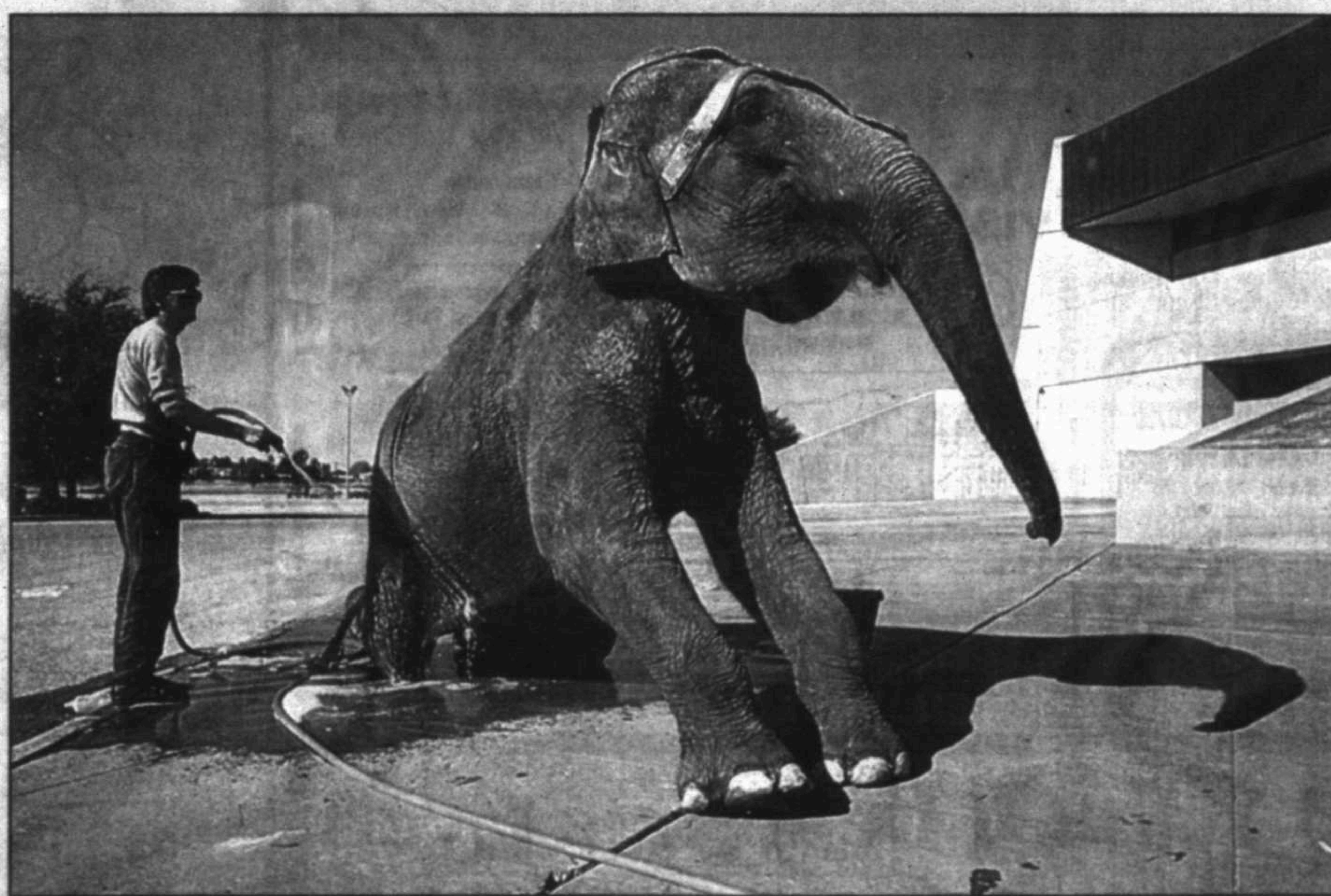
difficult.

In addition to weapons, a senior Bush administration official said, Moscow is selling technology to the Chinese that can be used to enrich uranium.

Washington is concerned that Beijing will use the technology to improve the design of its nuclear power plants, making them attractive to Third-World buyers and further undermining efforts to stop the spread of nuclear arms.

Despite a cooperative relationship with non-Communist Russia, the United States has so far been unable to stop the Russian sales. Russian officials seem to have

Please see REPUBLIC/2A



Joe D. Williams/Reporter-Telegram

Pachyderms, pooches parade

Pachyderms and pooches were in the spotlight Saturday in Midland. Above, Patti, a 29-year-old Indian elephant, gets a partial bath from handler Robert Harris in preparation for Circus Gatti's three performances at Chaparral Center. At right, Chelsea, a 3-year-old Pomeranian owned by Michelle Balcar, resists the advances of Derrick, a 4-month-old West Highland White Terrier owned by Jerry and Jill Sullivan, during the Best-Dressed competition at the Midland Animal Shelter's Dog and Cat Show.



Joe D. Williams/Reporter-Telegram

Board limits meeting topics to boundaries

■ Trustees put cluster system, controlled choice on back burner for community conferences.

By Myra Lee Salcedo
Staff writer

Redesigning the junior high school boundaries is an immediate need, according to Midland school board trustees.

Abell Junior High, which is under construction and clearly visible just west of the intersection of Wadley and Loop 250, will be open for business September 1993.

Although trustees had originally planned a series of seven community meetings to discuss several issues, they decided to get the junior high boundaries settled first, according to trustee Jackie Hamilton.

"We will get the junior high boundaries done, then look at realigning the cluster system (to include Bush and the new elementary school in the system) and the issue of controlled choice later," she said.

At a recent board meeting, trustees noted that the issue of controlled choice, even if approved at some point, would take two years to bring on line.

The board came to a consensus that a more immediate need is to bring the new schools into the district and have boundaries arranged as soon as possible.

School administrators will be using an

Please see SCHOOL/4A

Bustamante, Bonilla slug it out for Hispanic vote

By Kelley Shannon
Associated Press writer

SAN ANTONIO — In a vast southwest Texas territory spanning from San Antonio to Midland to El Paso, a veteran congressman and a Republican challenger are having a slugfest.

U.S. Rep. Albert Bustamante, D-San Antonio, and challenger Henry Bonilla of San Antonio aren't just fighting about taxes

and government spending. They're throwing punches over grand jury probes and television station equipment.

Ultimately, they're battling over traditional ties between Hispanic voters and the Democratic Party.

"The gravity is clearly with this (Republican) side because the philosophy of our party is more in sync with the working

Please see BATTLE/4A



Williamson

Railroad Commission race tops Texas election ballots

By John Powers
Reporter-Telegram Austin bureau

AUSTIN — It is the top political race in Texas, and charges and countercharges about the character of the candidates have obscured some very real differences on the issues.

No, it is not the presidential race. It is Democrat Lena Guerrero vs. Republican Barry Wil-

liamson for a seat on the Railroad Commission.

The commission race is first on the state ballot in November, right below the presidential contest.

But if Texans are aware of the race at all, they probably are not familiar with the complex issues regarding oil-field,

Please see RRC/4A

Baker, Wilson vie for Midland County Treasurer spot

Valencia, Carr battle for commissioner

By Ed Todd
Staff writer

Democrat Louisa Valencia and Republican Jo Ann Carr, candidates for county commissioner in Precinct 3, maintain they are dedicated to the frugal spending of tax dollars. They claim not to be pawns of special interests. They disavow vengeance.

And both candidates say they are pro-law enforcement.

Mrs. Valencia, a 59-year-old Midland businesswoman who has been commissioner since 1989, said she has been scrutinizing county expenditures in an impartial manner even though much of her focus has been on Sheriff

■ See Voters' Guide/Section G

Gary Painter's budget.

"It's a challenge," Mrs. Valencia said of her role as commissioner. "I feel like it's my duty as a taxpayer — doing community work."

The sheriff's \$6 million budget for fiscal year 1993 accounts for slightly more than 30 percent of the county's projected \$19.86 million in expenditures.

Mrs. Carr, who has worked in accounting and personnel management, is the 45-year-old wife of Joe Carr, a sheriff's lieutenant who,

Please see COUNTY/4A

By Ed Todd
Staff writer

The usually inconspicuous job of Midland County Treasurer is the lone contested countywide race on the Nov. 3 general election ballot as Republican incumbent Carol Baker is challenged by independent candidate Mary Wilson.

Both candidates have pledged to be diligent caretakers of the county's — and the taxpayers' — funds, which total about \$20 million annually.

"A real important thing in this race is that the county treasurer serves the taxpayers of Midland County in the most professional,



economical, and effective way," said Mrs. Wilson, a 52-year-old accountant. "I feel like I can do that with current, modern, new ideas."

Mrs. Wilson said she is a voting Republican running on the inde-

Please see TREASURER/2A

OCT 18 1992

TREASURER: Wilson, Baker vie for post in only countywide contested race

(From 1A)

pendent ticket because the county party's executive committee voted unanimously — 21 to 0 — in July to select Mrs. Baker as the party's nominee for the \$40,000-a-year post.

"I have to keep a true and accurate account of all money that comes through here," said Mrs. Baker, 56. "I believe in checking everything. I want everything backed up. Anything we do, we have to back it up."

Mrs. Baker, who was chief deputy for veteran Treasurer Dee Thompson, was appointed to the treasurer's post last March in a unanimous 5-0 vote of the Commissioners' Court following the retire-



Wilson



Baker

ment of Mrs. Thompson.

Mrs. Thompson, who had been treasurer since 1959, retired for health reasons after the filing deadline for both parties' primary elections. Mrs. Thompson's four-year term would have ended in

1994.

Subsequently, Mrs. Baker set out to seek the nomination for treasurer in July by members of the Republican Party's executive committee. And Mrs. Wilson, who announced her candidacy on the independent ticket, also sought the Republican nomination but held onto her independent candidacy in case she wasn't picked for the nomination by the party leaders.

"I'm a Republican. I'm qualified. Why not?" Mrs. Wilson had reasoned.

She said she was a "little disappointed in the way the leaders of the Republican Party have reacted" to her candidacy. The leaders

seemed "kind of like they are concerned I might upset their little tea party," Mrs. Wilson said.

From 1977 to 1989, Mrs. Baker worked for former County Auditors Erma White and Johnnie Thompson, and for current Auditor Floyd Jarnagin. She was the auditor's chief deputy when she transferred to the treasurer's office in January 1989 as Dee Thompson's chief deputy.

"I wanted to know more about county government," Mrs. Baker said of the transfer.

The treasurer's office and the auditor's office work in concert in a check-and-balance system in keeping track of the county's revenues and expenditures.

The treasurer's office makes out the county payroll for about 500 county employees. The auditor's office pays bills and audits finances.

The treasurer and the auditor sign payroll and other checks that must be co-signed.

"It takes someone with experience to do this," Mrs. Baker said. Her opponent, Mrs. Wilson, said that she has experience in accounting, making out payrolls and works directly under a certified public accountant in the Faudree-Parks Interests.

Mrs. Baker, who said that she "has always been loyal to the Republican Party," did say that "way back when" she had cast votes in the Democratic Party primary elections.

Both candidates said they would cooperate with the Commissioners' Court, which is the county's policy-making body and which approves budgets and expenditures.

The county's fiscal-year 1993 budget represents \$19.86-million in projected expenditures and, including reserves, totals \$21.7 million. The fiscal year began on Oct. 1.

"I certainly would have every

intention of cooperating with the commissioners," Mrs. Wilson said. "I would intend to do my job, whatever duties that might entail. I feel I can run the treasurer's office efficiently, effectively, and still cooperate with the rest of the departments in the county."

Mrs. Wilson said the treasurer's office carries out "the accounting for the various county departments (such as those of the tax assessor-collector, sheriff, clerks and judges) that make their deposits there. It is an important office."

"I don't pay out anything unless the commissioners approve it," Mrs. Baker said. "I have to try to get along with everybody. I don't make any policies. We just have to pay whatever is approved by the Commissioners' Court. We keep records."

In her day-to-day routine, Mrs. Baker said she works "mostly with employees. We receive all of the money (incoming revenue). We do all the payroll, insurance, retirement for the employees."

"We don't see a lot of the public," Mrs. Baker said. "We work with (county employees) from the time they go to work until they retire and even after retirement."

REPUBLIC: Russia sells its weapons to China

(From 1A)

decided that the proceeds from arms and technology sales are worth the risk of irritating American policy makers.

The administration, for its part, seems to have concluded that supporting reform in Russia is more important than drawing a firm line against weapons sales and threatening a reduction in financial assistance.

Moscow is proceeding with the sale of diesel submarines to Iran, and a Russian company, Glavkosmos, is selling a rocket booster to India in violation of an agreement restricting technology for ballistic missiles. A senior American official said the administration had complained to Russia and China about the sale, apparently with no effect.

Undermining its leverage, the protests by Washington have come as Western nations, including the United States, have shown little restraint themselves in selling arms.

The administration, although it has exhorted governments of other industrial nations to control the spread of destabilizing weapons, appears to have placed emphasis on competing with its allies for arms deals as it faces a faltering economy and a difficult election campaign.

Two such deals — the sales of combat jets to Saudi Arabia and Taiwan totaling \$14.8 billion, announced in September — exceed the value of American arms sales to all nations of the Third World last year.

Administration officials say that the Russians would be selling weapons to Iran and China regardless of American sales. But Russian officials have cited such deals to justify their exports.

The pattern of Moscow's arms sales has changed considerably since the Cold War, when it provided billions of dollars in arms to nations like Cuba, Iraq and Libya, often at concessionary terms, in an effort to extend or maintain its military influence.

What the Russians are after now is cash, not influence. That, plus

the Iraqi defeat in Persian Gulf War, which effectively removed it as a potential client, has limited the number of prospective customers. Two of the major customers are now Iran and China.

"In absolute figures Russian exports have gone down," an administration official said, "but the reality is that the customers that still want to buy from them are questionable."

And Richard F. Grimmett, an expert on conventional arms sales at the Congressional Research Service, observed: "The Russian focus is on those countries that are willing to pay cash. There is a tremendous focus on Iran. China has picked up, too. The Chinese cannot get high-technology weapon systems from other suppliers. What you have there is a marriage of convenience."

Russia has sold diesel submarines and SU-24 and MIG-29 aircraft to Iran, and is providing spare parts for some of the Iraqi aircraft that were flown to Iran during the Gulf war — planes that the Iranians have said they will not return. And along with Czechoslovakia, Russia has sold T-72 tanks to Syria.

American officials say Moscow has sold missile guidance technology, rocket engines and rocket technology to China. China's air-

to-air missiles are not well equipped to seek out enemy planes, and Russian technology is expected to enable Beijing to improve them.

China's surface-to-surface missiles also are considered to have inferior guidance systems and could benefit considerably from Russian exports, American officials said.

Moscow has sold S-300 surface-to-air missiles to China, the officials say. The S-300 is a Patriot-like system designed to shoot down planes and missiles.

In addition, Russia has sold 24 SU-27 fighters to China. American officials believe that Beijing is buying the planes in hope of acquiring production technology so that future aircraft can be assem-

bled at home.

Adding to the American concern, there are indications of discussions between Russians and Chinese officials about the joint production in China of tactical missiles and other weapons systems, an administration official said.

Russia also is selling tanks and tank technology to Beijing.

A further worry, a senior administration official said, is the sale of advanced Russian dual-use technology, which can be employed to enrich uranium for nuclear power plants. The United States is worried that this technology transfer will help China modernize its nuclear power plants and make them more marketable in the Third World.

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Audit

WASHINGTON — Agri-gators say Agriculture Department official S. awarded jobs and quaintances, spending dollars on questionable programs, and using ment car phone for met shop and be-

USDA's Office of eral found that un-rection, there hav-ous violations of regulations involv-ing, contracts and

Schotta is deput-for management v-tural Stabilization-tion Service and jo-as a political app-1989.

She called the-tive piece" prom-bureaucrats. She-ed by "good-ol-blowers" who res-her hiring of wor-ers, she said in-Friday.

The report fo-than \$400,000 in-been awarded to a-ing company in in-than \$25,000. Spen-\$25,000 doesn't r-tive bidding. The-identify the comp-

Schotta was "no-responsible for th-found due to (her-the agency, but a-rectly involved in-eties or had know-proprieties and a-continue," the au-

The activities w-when staff membe-cials warned her-were improper or-

TAKING A STAP

CAROL

County T

Audit finds USDA aide violates federal laws

WASHINGTON (AP) — Investigators say Agriculture Department official Sarita Schotta awarded jobs and contracts to acquaintances, spent thousands of dollars on questionable training programs, and used her government car phone for calls to a gourmet shop and beauty salon.

USDA's Office of Inspector General found that under Schotta's direction, there have been numerous violations of federal laws or regulations involving hiring, training, contracts and travel.

Schotta is deputy administrator for management with the Agricultural Stabilization and Conservation Service and joined the agency as a political appointee in June 1989.

She called the audit a "vindictive piece" prompted by "fat-cat bureaucrats." She is being hounded by "good-old-boy whistle-blowers" who resent change and her hiring of women and outsiders, she said in an interview Friday.

The report found that more than \$400,000 in contracts had been awarded to a claims processing company in increments of less than \$25,000. Spending of less than \$25,000 doesn't require competitive bidding. The audit did not identify the company.

Schotta was "not only ultimately responsible for the improprieties found due to (her) position within the agency, but also was often directly involved in the improprieties or had knowledge of the improprieties and allowed them to continue," the audit found.

The activities took place even when staff members or USDA officials warned her that the actions were improper or did not comply

fully with regulations, the report said.

The report identified Schotta by title, but not by name.

Schotta said she has not been disciplined and would respond to the report by the end of October.

Her boss, Agricultural Stabilization and Conservation Service Administrator Keith D. Bjerke, called the findings "unfounded accusations."

But the audit could be the "tip of the iceberg," said Sen. Patrick Leahy, D-Vt., chairman of the Senate Agriculture Committee.

It shows "a pattern of behavior by high-level USDA officials to violate federal rules designed to save the taxpayer money. In order to funnel contracts to associates, government employees went to extraordinary lengths to circumvent federal law," Leahy said.

The report cites Schotta's "active role" in hiring contractors with whom she was already acquainted, and her failure to notify procurement personnel of those relationships.

"As a result, federal and departmental laws and regulations designed to ensure conflicts of interests do not exist were not always followed," the report said.

Auditors said Schotta was involved in hiring two temporary workers who did not meet agency

qualifications and who performed duties restricted to career employees. Schotta had a working relationship with one dating to 1982.

Problems were also found with the \$2,800 spent for a cellular telephone for Schotta's privately owned car.



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Democrats may add to Senate rule, survey says

WASHINGTON (AP) — The Democrats, paced by strong female candidates, seem likely to pad their Senate majority on Election Day while the Republicans are left hoping for a few headline-grabbing upsets, according to an Associated Press survey.

With just over two weeks to Election Day, Senate incumbents of both parties are coping relatively well in an anti-congressional atmosphere, with as many as 14 of 23 virtually assured of re-election, according to the survey of Senate races nationwide.

But Sen. Phil Gramm of Texas, head of the National Republican Senatorial Committee, said: "There's a lot of volatility out there and I think there will be a lot of new faces."

There are 35 Senate seats on the Nov. 3 ballot, 20 held by Democrats and 15 by Republicans. At least 10 Democratic seats seem safe. But only five GOP seats, including the one held by Minority Leader Bob Dole of Kansas, are in that category.

The Democrats already hold a 57-43 advantage in the 100-member Senate, and they seem likely to pick up at least four more seats. That would take them beyond the 60-member threshold needed to break Republican filibusters.

Among the Republicans on the endangered list are Sen. Robert Kasten Jr. of Wisconsin, locked in a tough race with Democratic state Sen. Russell Feingold; Sen.

Alfonse D'Amato, R-N.Y., trailing Democratic Attorney General Robert Abrams, and Sen. Bob Packwood of Oregon, who is in a close race against Rep. Les AuCoin.

But some Democratic incumbents seem vulnerable as well. They include Sen. John Glenn of Ohio, who is facing Lt. Gov. Michael DeWine, and Sens. Terry Sanford of North Carolina and Ernest Hollings of South Carolina.

In Idaho and New Hampshire, where Republican Sens. Steve Symms and Warren Rudman are retiring, the contests are rated as tossups. Rep. Richard Stallings, a Democrat, is in a neck-and-neck

race against Boise Mayor Dirk Kempthorne, and the contest between Republican Gov. Judd Gregg and businessman John Rauh in New Hampshire is too close to call.

Aside from the mere revamping of the Senate lineup, the campaign presents the opportunity for two Democrats to make history. Rep. Ben Nighthorse Campbell of Colorado is trying to become the first American Indian in the Senate; Carole Moseley Braun of Illinois wants to become its first black female member.

And then, there is the host of Democratic women all over the country who are trying to make

1992 "The Year of the Woman in Politics."

If the Democrats increase their Senate numbers to 60, it would be the first time since the party held 61 seats during the Carter administration from 1978-1980. The all-time high for Democrats came during the Roosevelt administration, from 1939 to 1940, when the party held 75 of 96 seats.

Stuart Rothenberg, who publishes a political newsletter here, said Republicans face greater obstacles than Democrats in a politically perilous year because of President Bush's struggle at the top of the ticket.



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Weight Loss Mystery Baffles Scientists

WASHINGTON -- Scientists are baffled by a natural food ingredient that caused people to lose weight even though they were instructed not to alter normal eating patterns.

Although other scientists and studies may not agree, a study published in *The British Journal of Nutrition* found that the ingredient, a natural plant colloid, can cause significant weight loss. Several explanations for the weight loss are suggested, but the most likely according to scientists in a Finnish study, is that colloids seem to decrease the intestinal absorption of calories. However, universal acceptance of this theory will depend on further study.

National Dietary Research, an organization committed to the research and development of nutritional solutions to world-wide health problems, has successfully isolated and incorporated a series of colloids into a unique food tablet called Food Source One. A significant breakthrough in nutritional weight control, Food Source One provides a scientifically designed method for weight loss. When used as directed, Food Source One replaces high calorie fats with lower calorie nutrients, thereby providing optimum nutrition with a minimum number of fat calories. According to a study in the *American Journal of Clinical Nutrition*, you do not need to restrict the amount of food you eat to lose weight, just the fat.

Food Source One is unlike any other product on the market and is available immediately because it is not a drug and only contains natural ingredients already known to be safe. Physicians and pharmacists are praising Food Source One as a natural, drug free alternative for confronting obesity. © 1992 Omicron International

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Networks plan for long election night

NEW YORK (AP) — They cut back on the conventions, but for election night the big TV networks are promising the kind of continuous coverage they've always done, only better.

Fox Broadcasting Co., on the other hand, will do something it has never done: It will cover its first election while simultaneously "counterprogramming" with alternative fare.

ABC, CBS and NBC will begin their election night coverage in their evening news broadcasts at 6:30 p.m. EST.

"We're scheduled from 7 p.m. to 2 a.m.," said CBS' special events director Lane Venardos. "We would certainly go longer if the presidential election was undecided, but I think most of us believe it will be decided much earlier than that."

Cable News Network, after day-long reports on voter turnout and last-minute campaign activity, will air its next-to-last edition of the campaign series "Inside Politics" at 4:30 p.m. EST to open 12 hours of continuous coverage.

In addition to nonstop state-by-state results, CNN will have regional anchors reporting on trends in the Northeast, South, West and Midwest.

Fox, which has no Tuesday schedule, will air a special, two-hour "counter-programming" block of comedies, including new "Simpsons" and "Herman's Head"

episodes, while the fledgling Fox News Service provides one-minute election updates between them. Affiliate newsrooms take over at 10 p.m.

PBS follows its "MacNeil-Lehrer NewsHour" with "The Finish Line," a live, three-hour studio broadcast co-anchored by writer Hod-

ding Carter and columnist Ken Walker, with a big panel of commentators and analysts.

"NewsHour" will insert four-minute election newsbreaks at six minutes before the hour. At 11 p.m., the "NewsHour" team will take over, wrapping up live coverage between 2 and 2:30.

Fort Davis woman has hard ride as Miss Rodeo USA

AUSTIN, Texas (AP) — It's one thing to be lucky, and another to get all the breaks.

Lana Grubb, Miss Rodeo USA 1992, has broken her neck, a leg and a foot in separate incidents since taking the crown earlier this year.

"Rodeo is kind of a dangerous sport, but I know you don't expect the queen to be so hospitalized," Ms. Grubb said during a visit this week to Austin.

Ms. Grubb, 25, of Fort Davis has ridden horses since she was 3 and had never fallen from one until this year. Her first injury was in April.

"The horse turned out from underneath me and I broke my neck," she said. "But it was away from my spinal column. It wasn't as serious as it could have been. I was up and going in about a week."

Two months later, her horse jumped sideways and she wound up with a broken foot.

"They said just to put my boots on and live with it," Ms. Grubb said. "We have injuries in rodeo all the time. A friend of mine had a (bull) horn put through his stomach."

A month after her foot was broken, misfortune struck again.

"I was running barrels, and a horse stumbled and fell on my leg," she said.

Her doctors suggested Ms. Grubb start taking calcium pills.

"They thought my bones were weak," she said. "But I said, 'No, horses are heavy.'"

Fischer wins game, leads rematch 8-4

BELGRADE, Yugoslavia (AP) — Bobby Fischer wore down Boris Spassky in a grueling duel Saturday to win the 21st game of their \$5 million chess rematch and take an 8-4 lead.

Spassky had won the previous game Thursday after a nine-hour draw the day before.

The Russian-born Spassky, playing black, appeared to make a comeback late in the game Saturday but resigned after Fischer's 67th move.

Fischer had a slight edge early on, and after the 40th move most press observers concurred with Yugoslav grandmaster Dragutin Sahovic that the American was winning.

But after the 50th move, two other experts said the game was again open. "Black's pieces are too active for white to win despite his extra pawn," said another Yugoslav grandmaster, Bozidar Ivanovic.

Later, Fischer again took the upper hand.

"Bobby plays like (Serbian President Slobodan) Milosevic — very strong," Ivanovic said.

For the first time in the match, Fischer chose to answer Spassky's Sicilian Defense with the sharp open variation, moving his queen's pawn ahead two positions, instead of the quieter closed system he had used in earlier games.

The first player to win 10 games takes the \$3.35 million first prize, and the loser gets \$1.65 million. Draws do not count, and there are no adjournments.

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LOS ANGELES, Calif. (AP) — E. is using a ment, accus conspiracy. Wright, f in the laws conspired t with Ruthl The lat Wednesday "They pa They drafted Eric under provisions o He said S money it m including t

■ **Whit**
LOS ANGELES, Calif. (AP) — trucker Reg the trial, a The ruling the city's m beaten dur spring by l Three of t and will be pick a new Both pros peremptory Superior Co white. Courts so defendants so.

■ **Jump**
FAYETTEVILLE, N.C. (AP) — Saturday as parachutes Thrill-seel New River C al ritual. One of the below the b Association, antennas, sp devils like t Nine othe from the U Service. But that plunge. "The adre wooden step Withers th later and h The event tured a bur

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■ Singer raps Sony with racketeering law

LOS ANGELES — Eric Wright, known to rap fans as Eazy-E, is using a federal racketeering law to sue Sony Music Entertainment, accusing the company of money laundering, extortion and conspiracy.

Wright, founder of N.W.A. and the Ruthless record label, claims in the lawsuit that Sony, band member Andre Young and others conspired to use force and threats to break recording contracts with Ruthless.

The lawsuit, which seeks \$54 million in damages, was filed Wednesday in U.S. District Court in Los Angeles.

"They participated in acts of extortion through their agents. They drafted the release (of Young's contract) that was signed by Eric under duress," said Michael Bourbeau, who is using civil provisions of the Racketeer Influenced and Corrupt Organizations Act to sue Sony and others.

He said Sony also infringed on Ruthless' copyright by banking money it made from music recorded by Young, known as Dr. Dre, including the soundtrack for the movie "Deep Cover."

■ White judge may not try Denny case

LOS ANGELES — A defense lawyer in the beating case of trucker Reginald Denny may remove a white judge assigned to the trial, a state appellate court ruled.

The ruling Friday by the 2nd District Court of Appeal comes in the city's most racially volatile trial. Denny, who is white, was beaten during the early hours of the rioting in Los Angeles this spring by black assailants.

Three of the men accused of beating Denny face assault charges and will be tried together. A hearing is scheduled for Monday to pick a new judge.

Both prosecutors and defense attorneys had already used their peremptory challenges to remove two judges, sending the case to Superior Court Judge John Reid, a former prosecutor who is white.

Courts sometimes allow defense lawyers in trials with multiple defendants extra challenges, and the appellate court agreed to do so.

■ Jump-fest proves smashing success

FAYETTEVILLE, W.Va. — Thousands of people watched Saturday as one person after another jumped off a bridge — with parachutes — as part of the county's Bridge Day celebration. Thrill-seekers from around the world converged on the 876-foot New River Gorge Bridge, the nation's second-tallest, for the annual ritual.

One of the first jumpers broke a leg landing on the rocky shore below the bridge, said Dennis McGlynn, a volunteer for the BASE Association, which organized the jump. BASE stands for buildings, antennas, spans and earth forms, which is what the group's daredevils like to jump from.

Nine other jumpers also fractured arms or legs parachuting from the U.S. 19 bridge, said Tom Bibb of Jan-Care Ambulance Service.

But that didn't stop more than 200 others from taking the plunge.

"The adrenaline is rushing," said Joe Withers as he climbed the wooden steps to the bridge railing and faced the biting cold wind. Withers then leaped into space, his parachute opened seconds later and he landed safely.

The event, which usually draws about 100,000 spectators, featured a bungee jump this year for the first time.

Bridge Day began in 1980, three years after the bridge opened near Fayetteville, 40 miles southeast of Charleston.

Three jumpers have died in Bridge Day jumps, the last in 1987.

But Bridge Day chairwoman Cindy Whitlock said insurance hasn't been a problem because all participants sign non-liability waivers.

"We sign off everybody but God," Whitlock said.

Compiled from Reporter-Telegram wire services.

El Paso plant avoids Acme Boot layoffs

CLARKSVILLE, Tenn. (AP) — Acme Boot Co.'s 65-year tradition of making boots and other western apparel here will come to an end on June 30, 1993.

Employees were notified by company officials Friday that 480 jobs will be phased out after the holidays.

The factory is the last Acme plant in Tennessee. Factories in Springfield, Ashland City, Cookeville and Waverly once employed thousands in the state.

Acme president Mike Vogel said the 200,000-square-foot facility will keep its headquarters and distribution center here, leaving 200 people employed.

Acme will sell boots made in its El Paso, Texas factory and a supplier in Tennessee, except for 15 percent imported from overseas, Vogel said.

Vogel said many Clarksville employees will be offered jobs at the El Paso plant.

Janet Manners, who has been with Acme nearly 30 years, found it difficult to hold back tears.

"We're all devastated. We all knew it was coming, yet you're never ready to be told that the job you've had for 29 1/2 years is gone," she said.

But Larry Cottrell, a husband and father of three with nearly 18 years at Acme, called the announcement "a big lift."

"I've been running around for several months, not knowing what they were going to do," Cottrell said. "For that reason, I'm sort of relieved, and in another way I've got to worry now about finding something else."

Mitchell Tucker, president of the United Rubber Workers Union Local 330 which represents Acme employees, said the plant expects to cut boot production by more than half its current volume by Jan. 1, 1993, and then begin phasing out workers about one month later.

Tucker said the union had offered to make concessions to keep Acme here.

"We did everything we could to boost productivity and this is the thanks we get," Tucker said.

"We are hoping that when Mr. (Bill) Clinton gets in, all this will change. I think he will make it tougher for the companies to take our jobs away."

Farley Industries of Chicago bought Acme in 1985. Farley is a private company that also controls Fruit of the Loom and West Point Pepperell.

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Clinton takes crime offensive, prepares for debate finale

ROMULUS, Mich. (AP) — Bill Clinton basked in endorsements from 200 current and former prosecutors Saturday as he criticized President Bush's law-and-order record and sought to shield himself from soft-on-crime attacks in the campaign's final days.

"What I promise you is a partnership — not rhetoric, not hot speeches, not cheap 30-second television ads but a true partnership," Clinton said. "I do not promise miracles in the fight on crime, but I understand what it is like."

Clinton's offensive came as he arrived in Michigan to prepare for Monday night's debate finale with Bush and Ross Perot, perhaps the last best hope for Bush to reverse the dynamics of a campaign Clinton has dominated since the summer nominating conventions.

Bush spent the day at Camp Da-

vid, Md., reviewing debate briefing books. He was to return to the White House Sunday, then fly to Michigan for the confrontation in East Lansing.

A spokeswoman for his campaign, Torie Clarke, rejected Clinton's criticism on Saturday, saying that "the president has the toughest and most effective record on crime of any administration in history" and that Clinton's Arkansas ranks near the bottom in spending on police and prisons.

Perot was airing an hour-long commercial Saturday night on ABC, half biography, half discussion of his plan to erase the deficit in five years through an array of tax increases and spending cuts.

Clinton arrived in Michigan encouraged by a new poll showing a growing double-digit lead but trying to discourage as "way prema-

ture" speculation of a possible Democratic landslide.

Still, Clinton acknowledged he felt free to target several smaller, Republican-leaning states next week because of solid leads in the big industrial states. And, without using the word, he said a major goal in the final weeks was to gain a mandate by detailing specifics of his programs in as many states as possible.

"This is not a race to just defeat my opponent," Clinton said as he left Little Rock. "This is a race to shape the future of the country. So it's not about landslides. It's about what's going to happen to the American people."

A poll taken after the first two debates gave Clinton reason for optimism.

The Newsweek survey of 751 registered voters showed Clinton

with 46 percent support, to 31 percent for Bush and 14 percent for Perot — up from 44-35-12 in a similar poll taken before the debates and intensified Bush attacks on Clinton's character.

In a television interview Saturday, Bush's secretary of housing and urban development, Jack Kemp, suggested the president was making a mistake by hammering Clinton on his efforts to avoid being drafted and his 1960s anti-war activities.

"Look, I don't think it is the central issue that's going to make a decision around which people will vote in November," Kemp said on CNN's "Evans and Novak."

Clinton's anti-crime event was as much style as substance — with fellow Democrats accounting for virtually all the 200-plus endorsements from current and former

state attorneys general, two former U.S. attorneys, and local prosecutors and police groups.

"We have witnessed the determination of this Bush administration to win wars anywhere on this earth" besides America's crime-plagued cities, said Denver District Attorney Norm Early. "Our alleged crime-fighting partners in Washington have been A-W-O-L —

the past four years."

Also delivering pointed criticisms of Bush were Sarah Brady, a lifelong Republican and wife of former Reagan administration spokesman James Brady, and a South Carolina woman whose policeman husband was killed by a man who bought the handgun the same day.

Dylan crowd boos O'Connor off the stage

NEW YORK (AP) — It was Bob Dylan's night, and Sinead O'Connor's nightmare.

Friends old and new turned out to honor Dylan's 30 years of music-making by putting on a sold-out show Friday night at Madison Square Garden.

A sobbing O'Connor was driven off the stage by boos, feeling the backlash of her attack on the pope. She was consoled by Kris Kristofferson, who told the shaken Irish singer, "Don't let the bastards get you down."

O'Connor was to sing Dylan's "I Believe in You." As jeering continued, she did an impromptu version of Bob Marley's "War," the same song she performed before tearing up a picture of Pope John Paul II on the Oct. 3 "Saturday Night Live."

Her stunned band remained on the stage as Sinead exited in tears; the audience cheered her departure. Publicists for the show were not at their offices Saturday for comment.

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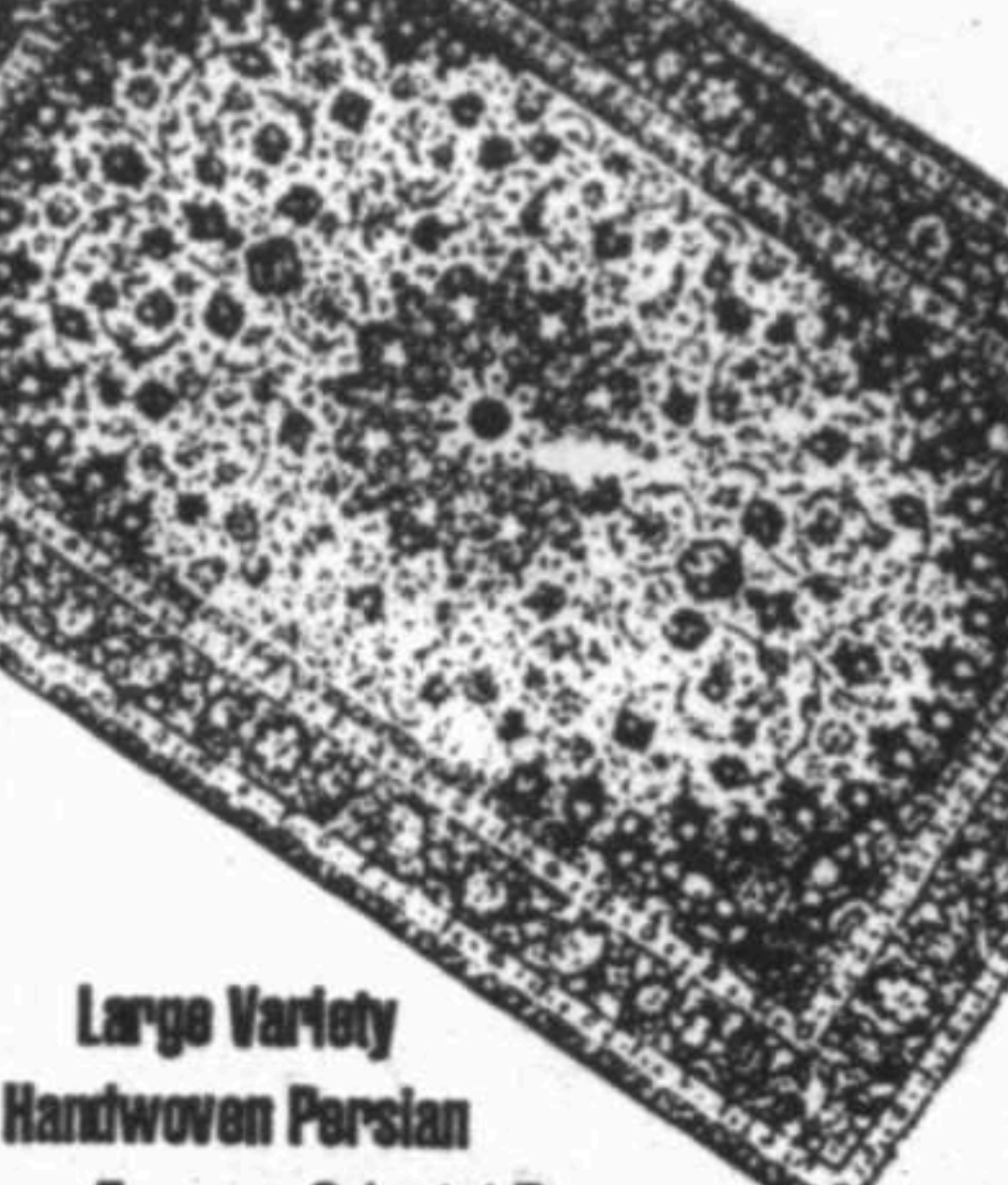
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SARAJEVO, na (AP) — The ing the human capital, agreed to move a barricade relief supplies jevo for two d

Gen. Mustaf speaking at B quarters, said th come down ear

The decision wills between forces, and follo gotiations am army and U.N.

Hajrulahovic not retract its Serb rebels pl road to mount on government ting them off fr city.

But he said hi install anti-ta would rely on to ensure that violate an agree not be used for U.N. officia reached im comment.

Hundreds of had piled up jevo airport v troops and th dickered over

Desperation the cutoff of deepened with aid shipments opened Mostar-most direct ov city of 400,000.

U.N. refugees boring Zagreb, relief operation ed, said they o sion because t shelled along th hurt in the att Commissioner a statement.

The disrupti plans to boost c

Bosnian army removes barricade

SARAJEVO, Bosnia-Herzegovina (AP) — The Bosnian army, citing the humanitarian needs of the capital, agreed late Saturday to remove a barricade that had stopped relief supplies from reaching Sarajevo for two days.

Gen. Mustafa Hajralahovic, speaking at Bosnian army headquarters, said the barricade would come down early Sunday.

The decision ended a contest of wills between Bosnian and U.N. forces, and followed afternoon negotiations among government, army and U.N. officials.

Hajralahovic said the army did not retract its accusations that Serb rebels planned to use the road to mount an armored attack on government-held suburbs, cutting them off from the rest of the city.

But he said his forces planned to install anti-tank weapons and would rely on the United Nations to ensure that the Serbs do not violate an agreement that the road not be used for military purposes. U.N. officials could not be reached immediately for comment.

Hundreds of tons of relief aid had piled up by Saturday at Sarajevo airport while government troops and the United Nations dickered over the roadblock.

Desperation in Sarajevo over the cutoff of the airport road deepened with the suspension of aid shipments along the newly opened Mostar-Sarajevo route, the most direct overland way to the city of 400,000.

U.N. refugee officials in neighboring Zagreb, Croatia, where the relief operation is being coordinated, said they ordered the suspension because two convoys were shelled along the road. No one was hurt in the attacks, the U.N. High Commissioner for Refugees said in a statement.

The disruption dealt a blow to plans to boost overland food deliv-

eries and prevent calamity before winter sets in. The U.N. statement said officials would try to negotiate another agreement on safe passage.

Sarajevo was relatively quiet after overnight fighting in several western suburbs.

But Croatian radio reported heavy Serb artillery attacks on the northern Bosnian towns of Maglaj and Bihac, where Serb rebels are trying to expand their control of the region. Much of Maglaj was in flames, the radio said, but there was no independent confirmation of this.

At least 14,000 people have died in fighting and more than 1 million are homeless since ethnic Serbs took up arms against Bosnia's majority Muslims and Croats, who voted in February to secede from Serb-dominated Yugoslavia.

Hundreds of thousands of people could die of starvation or expo-

sure as the war heads into its first full winter, the United Nations predicted last month.

U.N. officials had said closing the airport road violated an agreement by Bosnia's warring ethnic factions to allow U.N. personnel freedom of movement as they deliver aid to the besieged capital.

Sarajevo's Muslim-led defenders towed an empty freight container into the middle of the road on Thursday, and a government general warned on Friday that his soldiers would fire on U.N. peacekeepers if they tried to remove it.

U.N. spokesman Mik Magnusson said government troops shot at U.N. soldiers twice on Friday but that no one was hurt.

He disputed an assertion by Hajralahovic, the Bosnian general, that Serb tanks were using U.N. vehicles as cover to advance on the road.

World's 'vital signs' look better

WASHINGTON (AP) — People are smoking less, countries are cutting back armies and nuclear weapons, and industry is producing less oil and fewer ozone-depleting chemicals.

Could the world be turning into a better place?

Not yet, the Worldwatch Institute said in a report Saturday. But there are encouraging trends.

A look at 36 environmental and social indicators in the report "Vital Signs" still shows trouble signs.

But "there are ... some positive trends beginning to

emerge," says Lester R. Brown, Worldwatch's president who co-authored the report. "We need to be aware of these and to build on them, eventually achieving a momentum that will reverse the degradation and set the world on a sustainable path."

Among the most disturbing trends is a worldwide slide in grain production as population continues to grow at record rates.

The world harvest in 1992 is expected to be at a five-year low of 686 pounds per person this year, Brown said. Brown said that with the

demise of the nuclear threat, population growth is now "the leading threat to our future."

Despite worldwide declines in fertility rates, population grew by a record 92 million in 1991, with 80 million of the new arrivals living in the Third World, the report said. A new record has been set every year since 1975.

Another positive trend is a worldwide decline in infant mortality. In 1955, the number of children per 1,000 births who died in their first year was 155 worldwide.

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Yeltsin aides warn of threat to reforms

MOSCOW (AP) — Top aides to President Boris Yeltsin are warning that his reforms are under siege and could fall victim to a "constitutional coup" by a coalition of former Communists, industrialists and collective farm managers.

"These forces show pathological rejection of the Yeltsin government's economic program and nearly morbid desire to oust the government," said Gennady Burbulis, formerly Yeltsin's top deputy.

Burbulis' position in the Kremlin has slipped over the past six months as Yeltsin broadened his circle of aides to include former Communists who say Russia should avoid the kind of economic "shock therapy" used in Poland and who advocate a more gradual approach to reforms.

At the same time, Yeltsin has directed Acting Prime Minister Yegor Gaidar, architect of the reforms, to slow the pace in order to reduce human suffering caused by soaring inflation. Yeltsin also has ordered a campaign to combat a rising wave of economic crime that has accompanied the reforms.

Burbulis, Deputy Prime Minister Mikhail Poltoranin, Foreign Minister Andrei Kozyrev and privatization chief Anatoly Chubais met late Friday with a small group

of Western reporters to express their alarm at concessions Yeltsin has made to the go-slow reformers.

It was difficult to gauge the seriousness of the threat described at the extraordinary session, organized by the Foreign Correspondents Association.

Burbulis, in particular, described the situation in terms that smacked of the sharp, divisive rhetoric of the early Soviet period. Many Russians, including those at the top, find it difficult to adjust to a parliamentary process in which conflicting political views must be worked out through compromise.

Burbulis and Poltoranin repeatedly used the word "coup" to warn of the threat, but when challenged on the term acknowledged they did not foresee a repeat of the events of August 1991, when hard-liners staged an unsuccessful push with the support of Communist Party and KGB leaders.

The threat, Burbulis and Poltoranin asserted, comes from a coalition consisting of Russian Khasbulatov, the speaker of parliament; Arkady Volysky, a former Communist Party official who now heads a union of industrialists connected to the defense complex; and Nikolai Travkin, the Democratic Party leader who has strong ties with

trade unions.

"There is a real movement for a state coup," said Burbulis. But asked whether he was saying that Khasbulatov was plotting a coup, he said no, that it was "being organized under his wings."

Burbulis also mentioned Vice President Alexander Rutskoi, who has called for slower reforms, but it was not clear whether Burbulis counted Rutskoi among the group of what he called "revanchists," or revenge seekers.

"We believe it is necessary to carry out drastic changes," Burbulis said, his eyes burning with emotion.

"We are being forced to think in terms of crisis, collapse, disintegration and so on," he said. "What we were facing is a social and economic deadlock."

"What we have discovered is the

complete bankruptcy of all spheres — ideological, political, economic — everything that belongs to the Soviet, totalitarian, Communist structure," he said.

The most dangerous moment, Poltoranin and Burbulis said, could come next Saturday, when the anti-reform parliamentary faction National Unity plans to hold a National Salvation Congress in Moscow.

The Federation of Independent Trade Unions of Russia, which claims 50 million members, inherited the membership and much of the structure of the state-run trade unions of the Soviet era.

Mass demonstrations could jeopardize the reforms by encouraging leaders of the anti-reform Congress of Peoples Deputies to press ahead with plans to hold a scheduled session this December.

Quake hits Columbia; no deaths tolled

BOGOTA, Colombia (AP) — A strong earthquake on Saturday shook a fishing village described as one of Colombia's poorest, leaving 500 people homeless and about 20 injured, officials said. But no deaths were immediately reported.

The earthquake, measuring 6.6 on the Richter scale, was felt in several towns on Colombia's Pacific coast. Hardest hit was the remote village of Murindo, about 90 miles northwest of Medellin in Antioquia state.

The lack of casualties was probably due to the fact that most dwellings in the village, as elsewhere in Colombia's tropical areas, were made of branches, with roofs of grass or banana leaves. The quake struck before dawn, so most people were at home asleep at the time.

A spokesman for the national Red Cross in Bogota said the village's health clinic, the church, and the mayor's office had been damaged or destroyed, but the buildings were empty.

Hundreds of aftershocks, some measuring up to 4.5 on the Richter scale, were recorded following the 4:33 a.m. temblor.

State Gov. Juan Gomez, who reported the figure of 20 people hurt, said the injuries were not severe. But he said he was still waiting for a more complete report from a helicopter medical team dispatched to the town.

The Murindo river is the only route connecting the village to the rest of the country. There are no highways, and telecommunications in the area were knocked out by the quake or aftershocks.

Public health service pilots who were the first observers to enter the village found no one dead or injured, said Ramiro Uribe, the chief of pilots for the state health service.

The RCN radio network reported that hundreds of Murindo residents were huddling in the town's two main parks after their homes were destroyed.

The governor told RCN that 90 families in Murindo lost their homes, and also said a nearby Indian community of 50 homes had also been destroyed.

RCN cited rescue authorities as saying that as much as 80 percent of the town has been destroyed.

"If the destruction proves to be very great, we may consider relocating the entire town," the governor said.

Most inhabitants of Murindo are fishermen. The governor described the village of 2,500 people as one of the poorest in Colombia.

The governor appealed to Colombians to help the victims by sending food, money and supplies to his office. He also said he would seek international assistance.

Experts say they were surprised by the earthquake since the region around Murindo is not considered at high risk for seismic activity. They said the epicenter was near the border of Antioquia and Choco states, about 60 miles from the border with Panama.

The last major earthquake to hit Colombia was in 1983, when hundreds of people were killed in the southern town of Popayan.

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BERLIN (AP) — Farewell to Willy Brandt, a day with a group that drew those who mourned helped reconciliation.

The former minister and chancellor died on Oct. 9, affecting many Germans. Brandt had helped restore Germany's reputation after the Nazi era.

More than 14 years after his death, Saturday to see at the Reichstag of Germany's where the Berlin city for 28 years.

Chancellor Helmut Brandt, the 1971 Prize laureate, to Germany's place in the world, and his role in building to the Communist poorer nations.

"Because of his with two totalitarians on German soil, we knew that Germany's fatherland," Kolbe Germans to good traditions without blotting from their.

During the Nazi to Scandinavia. World War II and the German Democratic mayor of West when East Germany that left his city Communist ocean. In 1969, his rise West Germany.

Iraq a

BAGHDAD, Iraq — Weapons inspectors no reason to fear a search to detect still hiding Scud.

Also Saturday, nearing final agreement, human rights will go to regional.

Information made said in a would guarantee — a response to United Nations' safety.

"The Iraqi will continue to meet for the security of the U.N. person."

He claimed that Iraqi confrontation of a "propaganda" Bush's administration.

Thousands mourn Brandt at state funeral

BERLIN (AP) — Germany bade farewell to Willy Brandt on Saturday with a grand state funeral that drew thousands of people who mourned a statesman who helped reconcile postwar Europe.

The former mayor of West Berlin and chancellor of West Germany died on Oct. 8 at age 78, deeply affecting many Germans who felt Brandt had rescued their country's reputation after the dark epoch of Nazism.

More than 14,000 people filed past his coffin as it lay in state Friday, and thousands more came Saturday to see the state funeral at the Reichstag, the historic site of Germany's parliament near where the Berlin Wall divided the city for 28 years.

Chancellor Helmut Kohl said Brandt, the 1971 Nobel Peace Prize laureate, contributed much to Germany's position of respect in the world, and had seen his mission as building bridges of peace to the Communist world and to poorer nations.

"Because of his own experiences with two totalitarian dictatorships on German soil, Willy Brandt knew that Germany is a difficult fatherland," Kohl said. "He wanted Germans to identify with the good traditions of their history, without blotting out the bad chapters from their memory."

During the Nazi era, Brandt fled to Scandinavia. He returned after World War II and plunged into Social Democratic politics. He was mayor of West Berlin in 1961 when East Germany built the wall that left his city an island in a Communist ocean.

In 1969, his rise to chancellor of West Germany was seen as con-



Soldiers carry the flag-draped coffin of former German Chancellor Willy Brandt during Saturday's state funeral ceremony at the Reichstag building in Berlin. Brandt, a winner of the Nobel Peace Prize, died Oct. 8, at the age of 78.

firming democracy's roots, because it was the first change in the governing party since World War II.

Brandt's policy of Ostpolitik — the opening to East Germany and Moscow in the early 1970s — is credited as a forerunner of the de-

velopments that brought the end of the Cold War in the late 1980s and the unification of Germany in 1990.

Former Soviet President Mikhail S. Gorbachev was among the foreign guests, along with French President Francois Mitterrand, Britain's Prince Charles, Austrian Chancellor Franz Vranitzky, European Community Commission President Jacques Delors, Venezuelan President Carlos Andres Perez and U.N. Secretary-General Boutros Boutros-Ghali.

The chief U.S. dignitary was Sen. Claiborne Pell, D-R.I., chairman of the Senate Foreign Relations Committee.

Gorbachev has been fighting with the Russian government over his refusal to testify at a trial involving activities of the Communist Party, and at one point it was doubtful he would be able to attend the funeral of his friend because he had been banned from leaving the country. Gorbachev, accompanied by his wife, Raisa, did not give a eulogy.

Spanish Prime Minister Felipe Gonzalez said in his eulogy, "Adios, dear friend Willy. You were a fighter for peace."

Brandt's funeral marked the first time the Reichstag was used for a state memorial service since the rites in 1929 for Foreign Minister Gustav Stresemann, who shared the 1926 Nobel Peace Prize for his efforts to reconcile Europe after World War I.

After eulogies in the Reichstag plenary chamber, military officers carried Brandt's flag-draped coffin to the plaza in front of the building.

Shooting follows Angolan election; runoff to be set

LUANDA, Angola (AP) — Shooting was reported Saturday in two Angolan cities after final election results gave President Jose Eduardo dos Santos' ruling party a victory but showed he and rebel leader Jonas Savimbi must meet in a presidential runoff.

Hours after the results were announced, soldiers from Savimbi's UNITA, or National Union for the Total Independence of Angola, opened fire on dos Santos supporters in downtown Luanda, killing at least two people, police said.

UNITA officials said their men were fired on first, by backers of the ruling MPLA, or Popular Movement for the Liberation of Angola, who were celebrating the party's victory in the Sept. 29-30 elections.

Other casualties were reported, but details were not immediately available.

Luanda police commander Gaspar da Silva, speaking on national television, said the situation was "relatively calm." But police reported some movement of UNITA soldiers near the capital.

The state news agency An-

gop also reported fighting between police and UNITA members in Huambo, the central highland city 320 miles southeast of Luanda that Savimbi has turned into a stronghold since he left the capital days after the elections.

Agostinho Jaka, vice-governor of Huambo, described the situation there as "very serious" and not fully under government control.

Angolan national television reported that UNITA had taken several police officers hostage in a shootout in Huambo and blockaded government buildings and main thoroughfares.

The report, which could not immediately be independently confirmed, indicated that U.N. officials called a meeting of government and UNITA representatives to defuse the crisis.

In the parliamentary election, the MPLA won 53.74 percent, enough to gain a majority in the 220-seat legislature. UNITA had 34.1 percent.

The United Nations contradicted those claims Saturday, declaring the elections "generally free and fair."

Iraq assures safety of weapons inspectors

BAGHDAD, Iraq (AP) — Iraq reassured U.N. weapons inspectors on Saturday that they had no reason to fear for their safety as they began a search to determine if Saddam Hussein is still hiding Scud missiles.

Also Saturday, U.N. officials said they were nearing final agreement with Baghdad on resuming humanitarian aid, the bulk of which will go to regions controlled by Kurdish rebels.

Information Minister Hamed Youssef Humadi said in a statement that his country would guarantee the weapons team's security — a response to statements by diplomats at the United Nations who voiced fears for the team's safety.

"The Iraqi authorities have provided and will continue to provide all necessary requirements for the security of inspectors teams and the U.N. personnel," Humadi said.

He claimed that worries about a possible Iraqi confrontation with inspectors were part of a "propaganda campaign" by President Bush's administration, aimed at boosting

Bush's flagging re-election chances.

The 50-member team, the largest group of weapons inspectors to come to Baghdad, arrived on Friday. It has 16 American experts, and others are from Russia, Britain, France, Italy, Germany and Australia.

Fears for their safety were bolstered by earlier statements from Saddam, who branded them "stray dogs" seeking to destroy Iraq.

On Saturday, they left the Sheraton Hotel lobby and boarded two buses at dawn, carrying backpacks and water bottles and wearing hats with a U.N. emblem.

There was no uniformed police presence, but Iraqi plainclothes agents kept a close overnight watch. Other agents filmed their departure.

The team's leader, Nikita Smidovich of Russia, declined to say where they were headed, but the presence of an advance party of German helicopter pilots indicated they would fly out of Baghdad.

U.N. experts have been analyzing informa-

tion provided chiefly by the United States and Britain on as many as 200 Scud missiles that Saddam may still be hiding.

Iraq says it already has declared and showed U.N. inspectors everything it still has related to Scuds.

Meanwhile, Baghdad agreed in principle to resume U.N. relief programs in the war-scarred country, although some details of the deal must still be worked out.

About half of the \$200 million package will be sent to the north, where the Kurdish population is entrenched, James P. Grant, executive director of the U.N. Children's Fund, said at a news conference.

Differences remain over the number of U.N. guards who would oversee the aid distribution. Iraq wants the guards' strength limited to 150, while the United Nations insists on 300 to 500.

The United Nations scaled down its relief operations and reduced its international staff when a previous relief agreement after the Gulf War expired July 1.

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ARMED FORCES NEWS

Coast Guard Chief Petty Officer Tommy A. Glenn, a 1973 graduate of Lamesa High School of Lamesa, recently reported for duty with Coast Guard Unit, March Air Force Base, Calif.

He joined the Coast Guard in August 1973.

Marine Pfc. Manuel Loya, son of Manuel and Olga Loya of Midland, recently reported for duty with 3rd Battalion, 8th Marines, Camp Lejeune, N.C.

The 1991 graduate of Robert E. Lee High School, joined the Marine Corps in February 1992.

Navy Seaman Anthony M. Richardson, son of Bettie Richardson of Midland, is aboard the dock landing ship USS Fort Fisher, homeported in San Francisco. USS Fort Fisher is currently off the coast of Somalia to back up an airlift of U.N. troops to the famine-stricken nation.

The 1989 graduate of Lee High School, joined the Navy in November 1989.

Pvt. John T. Seales, grandson of Ramona Bennett of Midland has completed basic training in Fort Leonard Wood, Waynesville, Mo. He is a 1990 graduate of Bronte High School.

Airman Randall L. Atchley, son of Richard and Nancy Atchley of Midland has graduated from Air Force basic training at Lackland Air Force Base in San Antonio.

Atchley

His wife, Jennifer, is the daughter of Mr. and Mrs. Billy Harless of Midland.

He is a 1990 graduate of Robert E. Lee High School.

Cpl. Jose Gallo and Lance Cpl. Mark C. Woolsey recently received Letters of Appreciation for the Marine Corp. of Lamesa and a resident of Midland. Gallo, son of Maria and Jose Gallo Sr., and Woolsey, son of Mr. and Mrs. K.D. Woolsey, were cited for professional performance of duties while assigned with 6th Motor Battalion, 4th Force Service Support Group in Lubbock.

The diligence, enthusiasm, motivation and professionalism that he displayed contributed significantly to the accomplishments of his unit's mission.

Gallo is a 1987 graduate of Klondike High School and joined the Marine Corps Reserves in January 1987.

Woolsey is a 1988 graduate of Lee High School and joined the Marine Corps Reserves in July 1990.

John Andrew Gillespie, grand-

son of Charles and Earnestine Gillespie of Midland, is a member of the Corps of Cadets for 1992-'93, joining an enrollment of 302 cadets, in grades four through 12, representing 25 states and 10 foreign nations.

Cadet Gillespie has recently been promoted to Senior Private First Class Second Grade, and has also received the Ambassador's Ribbon for the active recruitment of new cadets.

Promotions are based upon demonstrated leadership abilities, high academic achievement, an excellent discipline record, and participation in an Academy activity of varsity and intramural sports.

Chris K. Wilson, son of Gloria Jean Truesdale and Capt. Russell D. Cavin of Midland, son of Bill and Alice Cavin, are among 6,500 Army Reserve and National Guard soldiers deployed from the United States to Belgium, Germany, and Luxembourg as a demonstration of U.S. resolve in meeting NATO commitments to participate in REFORGER 92.

Reforger is a strategic mobility

exercise emphasizing U.S. capability and resolve to reinforce Europe rapidly should the need arise.

Airman Apprentice Rene Garcia, son of Emilio Garza Jr. of Stanton, is a plane captain trainee with Fighter Squadron 114 (VF-114) based at Naval Air Station Miramar, San Diego.

VF-114 also called The Fighting Aardvarks, trained hard to do battle over the Arabian Gulf after Iraq invaded Kuwait in August 1990.

Capt. James Watters Jr., son of James and Dorothy Watters of Huntington, Montpelier, Ind., has been decorated with the Air Force Airman's Medal.

The medal is awarded to individuals for heroism involving voluntary risk of life.

He has also been decorated with the Meritorious Service Medal which is awarded for outstanding non-combat meritorious achievement for service to the United States.

His wife, Cindy, is the daughter of Dr. Dan Carnes of Midland, and Marie Carnes of Oklahoma City.

Watters is a 1976 graduate of Blackford County High School, Hartford City, Ind., and a 1984 graduate of St. Leo College, Fla.

Marine Pfc. Brandon R. Meeks,

son of Nathan Meeks of Midland, recently deployed with 2nd Battalion, 3rd Marines, Marine Corps Air Station, Kaneohe Bay, Hawaii for a five-week training exercise.

Meeks will participate in numerous live fire exercises which will emphasize proficiency with individual weapons and small-unit maneuvers. The training will culminate with a Marine Corps Readiness Evaluation.

The 1991 graduate of Early High School, Early, joined the Marine Corps in July 1991.

Marine Cpl. Adrian S. Martinez, son of Alicia Sanchez of Midland, was recently promoted to his present rank while serving with Headquarters Service Battalion, Marine Corps Base, Camp H.M. Smith, Hawaii.

The 1988 graduate of Midland High joined the Marine Corps in November 1988.

Navy Ensign Mark E. Herrera, son of Israel and Mary Herrera of Midland, recently completed the Officer Indoctrination School.

During the course at the Naval Education & Training Center, Newport, R.I., students are prepared for duty in the navy staff field corresponding to their civilian profession.

The 1988 graduate of Midland High School graduate from Texas

A&M University in 1992 with a bachelor of science degree, joined the Navy Reserves in June.

Staff Sgt. Ronald Campbell Jr. was recently decorated with the Bronze Star and is now working with young people in Midland, McCamey, and Rankin as new Army Recruiters.

Campbell, a graduate of Parkland High School in El Paso, has

served as a military policeman during his 12-year Army career. His assignments have included three tours in Germany as well as duty with the 1st Cavalry Division at Fort Hood.

While stationed at Fort Hood, he was deployed to the Persian Gulf as part of Operation Desert Storm, earning him the Southwest Asia Medal and Kuwait Liberation Medal.

Chamber to host banquet

Staff report

The Midland Hispanic Chamber of Commerce newly elected board of directors will host its 8th annual anniversary and installation banquet Thursday at the Midland Hilton.

Social hour will begin at 6 p.m. and a dinner will follow at 7 p.m.

A "theme dinner" will be served featuring dishes from around the world, complemented by costumes and decorations. The table decorations will be provided by sixth graders at South Elementary.

Mayor J.D. Faricloth will install the new board members.

Stella Guerra, assistant secretary of the U.S. Department of the Interior, will be the keynote speaker. She is in charge of Territorial and International Affairs. Ms. Guerra also will take part in the groundbreaking ceremony for the F.A.M.A. Lamesa Street Park at 12:30 p.m.

The public is invited. Anyone interested in making reservations for the banquet should call the Hispanic Chamber office at 682-2960.

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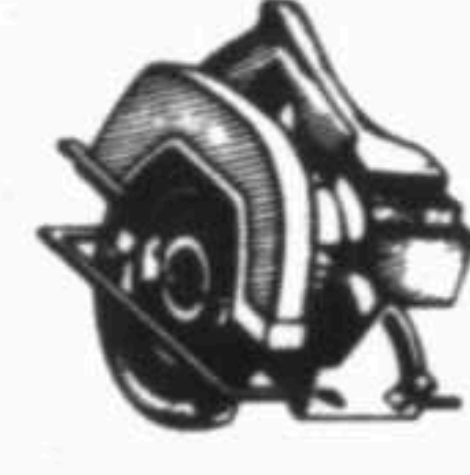
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SPORTS WATCH

TV Sports

(Subject to Change)

NFL — Kansas City Chiefs at Dallas Cowboys, noon, NBC.
Philadelphia Eagles at Washington Redskins, noon, CBS.

Atlanta Falcons at San Francisco 49ers, 3 p.m., CBS.
AUTO RACING — IMSA GTP Camel Grand Prix of Greater San Diego, noon, ESPN.
NASCAR Busch Grand National, noon, TNN.

GOLF — Transamerica Senior championship, final round, 4 p.m., ESPN.
BASEBALL — World Series Game 2, Toronto Blue Jays at Atlanta Braves, 7 p.m., CBS.

No tickets

Just in case you had high hopes of landing a ticket for the Lee-Permian game Friday, forget it.

Jack Tayrien, Midland athletic director, said there are no Midland tickets left for the Lee-Permian game. Odeasa Permian will be holding its drawing for tickets for season ticket holders only. The home side of the field is already sold out by Lee's season ticket holders. Student tickets will be sold, however, at the Midland junior high schools this week.

Under UIL rules, half of the stadium must be made available to the visiting team if requested.

Jordan check

CHICAGO — If Michael Jordan testifies in North Carolina next week that he wrote a disputed \$57,000 check to pay off gambling debts, the admission apparently would put him in no jeopardy.

The NBA and various law enforcement agencies say Jordan is not the subject of any investigation. Jordan has said in the past that the money was a loan to a former golfing partner to help build a driving range.

The Chicago Bulls star refused Friday to confirm or deny a newspaper story saying he publicly admitted for the first time that the check was not a loan but was payment for gambling losses.

Rodman balks

ANN ARBOR, Mich. (AP) — Dennis Rodman didn't make it to the start of the Detroit Pistons' training camp, but he made it to their first exhibition game. Sort of.

Wearing a baseball hat, sunglasses and a flannel shirt, Rodman slipped into a seat behind the Pistons' bench in the Crisler Arena on Friday night to watch Detroit lose 115-87 to the New Jersey Nets.

But it may be a while before Rodman joins the team on the court, Nets coach Chuck Daly said.

Daly, who in May resigned after nine seasons with the Pistons, met with Rodman for 30 minutes behind closed doors at halftime. The meeting delayed resumption of the game.

INSIDE SPORTS

Local Sports 2B
Scoreboard 3B
SWC Reports 4B
Top 10 Report 5B
Second 10 Report 6B



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scores and updates.

Dravecky talks hope, baseball

Former pitcher pulls for Braves in Series

By Joe Wyatt
Staff writer

It was last October when the San Francisco Giants rolled out the red carpet to pay tribute to their former star left-hander. That was on "Dave Dravecky Day." Now, just 12 short months later, it looks as if aging Candlestick Park may have hosted its last major league drama.

The Giants appear headed to Florida in a move that may well sever the Bay area from the National League for good. But baseball, steeped in tradition as it is, is ever changing. Like people.

Like Dravecky, who did not come to Midland to talk about baseball, but shared some diamond thoughts a few hours before his speaking engagement Saturday night at the Samaritan Counseling Center of West Texas.

Dravecky, eight seasons a major leaguer before being diagnosed with cancer and ultimately losing his left arm to surgery, pitched for the San Diego Padres in the 1984 World Series and said he would be pulling for the Braves during the 1992 version that's now under way.

"I'm for the Braves. I bleed National League blood," said Dravecky, who first signed a big league pact with the Pittsburgh Pirates in 1978, then worked his way through San Diego to become a member of the Giants.

"I watched the seventh game of the National League Championship the other night and three things happened," he said. "First, I was mad when the Pirates got beat because I grew up in that area and I was their 21st draft pick in '78."

"Second, I watched Doug Drabek sitting in the bullpen in the ninth inning and I knew the feeling he must have had while he watched his team try and hold the lead. It's a feeling I've had many times and it brought back a lot of fond memories and emotions."

"But the third thing that happened was Sid Bream scored the winning run and I had mixed emotions. Sid is a good friend," he smiled.

Dravecky smiles a lot these days, for though he lost a limb he discovered a life.

Clinical depression set in on the southpaw following the

Please see **DRAVECKY/2B**



Dravecky

Braves crack Morris code

■ Atlanta's Damon Berryhill smacks a three-run home run in the sixth inning to lead the Braves over the Toronto Blue Jays, 3-1, in Game 1 of the 1992 World Series.

Associated Press

ATLANTA — Not this time, Jack. This time, the Atlanta Braves got the big hit off Jack Morris when they needed it. This time, Damon Berryhill's shocking three-run homer in the

■ World Series Game 2: Toronto Blue Jays at Atlanta Braves, 7 p.m., CBS (Cable Ch. 8).

sixth inning put the Braves ahead, and Tom Glavine pitched them past the man they couldn't beat in Game 7 last year.

Added up, it was a 3-1 victory for Atlanta over Toronto on Saturday night in the opener of the first international World Series. And, it was a win that the Braves were beginning to believe they might not get.

"We never have really pounded on Jack Morris. He pitched us tough last year, and he pitched us tough tonight," Braves manager Bobby Cox said. "But he got behind on the hitters and he finally hung one."

Morris had extended his scoreless streak against Atlanta to 18 innings — including a 10-inning shutout in Game 7 last October for Minnesota that earned him the MVP trophy — before Berryhill's blow. The loss was Morris'



Atlanta's Otis Nixon, left, pulls in safely with a steal of second as the ball gets past Toronto

second baseman Roberto Alomar in the first game of the 1992 World Series.

first in five World Series decisions, and left him 0-2 in three postseason starts this year. He was 2-0 with a 1.17 ERA in three starts last year against Atlanta.

"Obviously, you don't want to pitch

with runners on base," Morris said. "One bad pitch and you lose the ballgame, and that's what happened."

Glavine, meanwhile, made up for a 1-5 postseason mark that including an embarrassing loss this week in the NL

playoffs. His only mistake was a solo home run by Joe Carter in the fourth inning. He allowed four hits, walked none and struck out six.

"To sit here the last few days and

Please see **SERIES/3B**

Lady Rebs pull big upset

Lee spikers come from behind to defeat AHS

By Terry Williamson
Sports editor

Midland Lee's Lady Rebels didn't mathematically put their name in the Class 5A state playoff volleyball bracket Saturday at the Lee gym, but their stunning 2-15, 15-9, 15-8 victory over league leading Abilene High is about as close as you can get.

The Lady Eagles came roaring into Midland with a gaudy 8-0 record in District 4-5A play and word was that these owners of two powerful cannons (Barbra Pyle and Tonya Powell) would skate through district play without a loss.

The word was wrong, of course, as Lee proved Saturday. This is what you call an UPSET. Lee is now 6-4 with a 1½-game lead over cross town rival Midland High, which was a 15-13, 15-12 loser to second place 8-2 Abilene Cooper. This forces the Lady Bulldogs into the position of having to beat Abilene High themselves down the stretch — and on the road.

"We wanted this one bad," said Lee senior Carrie Zamora, who had two key blocks and a service ace for the last three points in the victory. "We were a little nervous at the start, but we wanted this one more than anything else in the world. This was a big, big win for us."

A jubilant Lee coach Anita Corder couldn't disagree as she tried to find some words fitting the situation. "I can't even tell you where the turning point was, but somewhere in the sec-



Joe D. Williams/Reporter-Telegram

Lee's Heather Huff goes up for a kill against Abilene High Saturday.

Please see **LADY REBS/2B**

Aggies break offensive skids, beat Rice, 35-9

By Denne H. Freeman
AP Sports Writer

COLLEGE STATION, Texas — While it's not exactly "Air A&M" yet, No. 5 Texas A&M threw three touchdown passes Saturday to take out the Rice Owls.

Halfback Rodney Thomas and backup quarterback Corey Pullig threw their first college touchdown passes as Texas A&M (6-0, 2-0 SWC) shook off its offensive doldrums with a 35-9 Southwest Conference victory.

The Aggies' 12th consecutive victory at Kyle Field dropped Rice to 2-4 and 1-2.

It had been almost a year since A&M had thrown three touchdown passes in a game.

Thomas flipped a 50-yarder to Ryan Matthews on his first collegiate pass attempt. Matthews didn't have anyone within 15 yards of him as he caught the ball at the 23 and ran into the end zone with 10:39 left in the fourth quarter.

"I like that play but you need someone to throw it," Texas A&M coach R.C. Slocum said. "Darren Lewis used to be real good at it. We used it a lot with him. It's kind of a roll of the dice but we caught Rice in a blitz."

Pullig, a freshman, then hit Tony Harrison with a 58-yard scoring pass on A&M's next possession as the Aggies broke the game open.

"Corey was just a little excited," Slocum said. "He had a real good touch on the ball. I had to get him some game experience and he came through."

Pullig said, "The coaches wanted me to take five steps and let the ball fly. Harrison made a great adjustment on it."

Thomas said he couldn't believe his eyes when he saw Matthews so wide open.

"All I had to worry about was not overthrowing him," Thomas said.

Greg Hill scored on runs of 28 and 2 yards for the Aggies. His second touchdown run came in the third period after fullback Doug Carter took a deflected pass and went 46 yards to the

Please see **A&M/4B**

LADY REBS: Lee can clinch share of third

(From 1B)

and game, you could see we wanted it."

But the UPSET didn't get off to a sweet start as AHS reeled off 13 unanswered points for a 15-2 decision. It looked as if the AHS walk as an unbeaten was going to go unchallenged as the Lady Rebels had a 15-2 decision.

But Lee started blocking strong-armed shots of Powell and Pyle in the second game with Tera Mander and Heather Huff, while Tanisha Mills was getting some timely kills along the way.

That formula carried into the third game as Zamora and Mander continued to play well at the net and sophomore Emily Hayes sparked at the serving line.

"We worked all week on blocking Pyle and Powell," Corder said. "We felt like if we could block shots, they would become frustrated and I think that is what happened."

"The most important thing for us was to play at the top of the court," Huff said. "That's where the game was won."

Mander said, "I don't know why we were so bad at the start of the match, but we started playing well at the net. That was the big reason we won."

Lee even had his back to the wall in the third game, falling behind by a 7-2 margin, but got back into the chase on blocks for points by Mander and scoring spikes by Mills. Then Zamora caught fire at

the net and service line after Lee forged a 9-8 lead.

Lee has only two matches left. The Lady Rebs travel to 3-7 Odessa Permian Tuesday and will host Cooper on Thursday, Oct. 29.

"This victory (over AHS) will give us a leg up for the playoffs if we can go on and take care of business against Permian and Cooper," Corder said.

The Permian game is key. Lee will have at least a share of third place with a win Tuesday.

This is the first year that three teams in volleyball will qualify for the state playoffs.

Midland High is now on the hot seat, needing to win out against 2-8 Odessa High Tuesday at home, 2-7 San Angelo Saturday and 8-1 Abilene High on Thursday, Oct. 29.

Lee made it a sweep over Abilene High as the Rebel junior varsity had a clean 15-6, 15-5 win over AHS.

4-5A Volleyball

Team	W	L	Overall
Abilene High	8	1	19
Abilene Cooper	8	2	22
Midland High	6	4	19
Midland High	4	6	13
Odessa Permian	3	6	7
San Angelo	2	7	9
Odessa High	2	8	12

Saturday's Results
Midland High def. Abilene High, 2-15, 15-9, 15-8;
Abilene Cooper def. Midland High, 15-13, 15-12, 15-12;
San Angelo def. Odessa High, 15-17, 15-11, 15-6;
Monahan def. Odessa Permian, 15-2, 15-6.

Tuesday's Games
Odessa High at Midland High; Midland High at Odessa Permian; San Angelo at Abilene High. Abilene Cooper is open.

DRAVECKY: Inspirational messages now his endeavor

(From 1B)

amputation of his left arm, shoulder and a portion of his collar bone due to progressive pain and loss of function. That was in June 1991. But 16 months later Dravecky added the Tall City to his list of engagements for the spread of his inspirational message about hope and overcoming depression.

"The hope I try to express is not temporary hope. It's eternal hope," Dravecky said. "I've come in my own life to realize that none of us is guaranteed that we'll wake up in the morning. We take that for granted."

"My experiences taught me to put life in perspective and live each day the best I can and to do it in the boundaries that God sets for us."

Dravecky's first surgery was in October of 1988, to remove a ma-

lignant tumor and nearly half the deltoid muscle. The prognosis for his return to the game was about zero. But by August of the following season, Dravecky took the mound for eight emotional innings as the Giants defeated the Cincinnati Reds, 4-3.

Just five days later, however, his arm snapped and he collapsed on the mound in a game against Montreal. The owner of a 62-57 major league record and a 3.13 earned-run average was finished on the mound, but in his travels he is still a regular center of attention.

The author of two books, including his newly released "When You Can't Comeback," which details his struggle to cope with retirement from baseball and living as an amputee, Dravecky is widely recognized for his continuing commitment to many Christian endeavors.

Ireland nips U.S. in Dunhill Cup golf

ST. ANDREWS, Scotland (AP) — The United States lost 2-1 to Ireland Saturday, yet made it to the semifinals on the strength of its emphatic earlier victories over New Zealand and South Korea in the Dunhill Cup team golf tournament.

Masters champion Fred Couples, had a 1-over-par 73 and lost by three strokes to Christy O'Connor Jr. Davis Love III landed in two bunkers and three-putted for a 7

at the 13th hole, and went down by two shots to Philip Walton, who carded a 72.

U.S. Open champion Tom Kite was the only American to win, shooting a 70 to edge Ronan Rafferty by a stroke.

The United States wound up tied with Ireland and New Zealand at two points.

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LOCAL SPORTS

Chaparrals win BP Invitational

BENTON, La. — Steve Dundas produced a pair of tournament records and the Midland College golf team breezed to a 19-stroke victory at the Bossier Parish Community College Invitational golf tournament here Friday and Saturday.

Dundas captured the individual medalist title with a tournament record three-under-par 141 — including his opening-round 68, which was a tourney best for a single round, and the Chaparrals tallied 594 strokes to easily outdistance second-place New Mexico Junior College's 613.

Chaparrals Lance McCullough, Guy Redford and Shawn Savage made the all-tournament team by finishing among the five low scorers in the event as MC won the tournament for the second straight year.

1. Midland College 291-303-594; 2. New Mexico Junior College 307-308-613; 3. San Jacinto 310-307-620; 4. Navarro 317-312-629; 5. Bossier Parish 327-327-634; 6. Lone Star 319-319-638; 7. Paris 326-315-641; 8. Brookhaven 322-325-647; 9. Weatherford 320-330-650; 10. Bossier 'B' 330-324-654; 11. Texas A&M 350-324-674.

CHAPS: 1. Steve Dundas 68-73-141; Lance

McCullough 73-76-146; Guy Redford 75-77-152; Shawn Savage 75-78-153; Chad Campbell 77-77-154.

Culleys in GTCC couples lead by 2

Aubrey and Ruth Culley teamed up for a 165 and a two-stroke lead Saturday after the first round of the Green Tree Country Club Couples Championship.

The Culley's lead Larry Bryan and Flossie Larsh, who combined for a 167 in championship flight play. Robert and Dede Plank sit in third place at 170 entering today's final round.

Championship Flight: 1. Aubrey and Ruth Culley, 165; 2. Larry Bryan and Flossie Larsh, 167; 3. Robert and Dede Plank, 170.

First Flight: 1. Mike and Debbie Pitts, 191; 2. Larry and Sandy Bohot, 182; 3. (tie) Bill and Betty Williams, 190; 4. Frank and Sue Mullins, 190.

Second Flight: 1. Carl and Bonnie Stewart, 187; 2. Ed and Joy Stark, 191; 3. Lou and Janet Shufin, 197.

The San Angelo Bobcats pulled off a 17-1 romp over Midland High in District 45A team tennis play Saturday as the Bulldogs fell to 1-4 in the loop standings.

"I'm quite disappointed in the results," said MHS tennis coach Tom Heiting. "I really thought we would do better. Our No. 1 doubles team of Kevin McIlvain and Allan Neighbors lost for the first time this year."

The only Bulldog win came from Shanna Burgin and Jennifer Burkett in the No. 1 girls doubles. MHS will host No. 1 state ranked Abilene High next Saturday at 1 p.m.

San Angelo 17, Midland High 1
Boys Singles: Kevin McIlvain lost to Bradley Holland, 6-1, 6-1; Allan Neighbors lost to Graham Thurman, 6-2, 3-6, 6-4; Kevin Lampert lost to Greg Garza, 6-4, 7-5; Tim Dodd lost to Shane Faulkner, 6-3, 4-6, 7-6; Jason Fisher lost to Bobby Reed, 6-0, 7-6; David Castle lost to Gary Serra, 6-4, 7-6.
Boys Doubles: McIlvain-Neighbors lost to Holland-Thurman, 6-3, 3-6, 6-2; Lampert-Dodd lost to Reed-Meade, 6-4, 5-7, 6-2; Fisher-Mendez lost to Garza-Faulkner, 6-2, 6-1.
Girls Singles: Shanna Burgin lost to Stephanie Sidney, 6-4, 6-4; Jennifer Burkett lost to Suzanne Whizen, 6-1, 6-3; Abby Gettmeyer lost to Jenny Cobb, 6-4, 6-1; Sarah Innersity lost to Melanie McGraw, 6-2, 6-1; Erin Smith lost to Kim Everhardt, 6-2, 6-3; Emily Spears lost to Nadine McGrath, 6-4, 7-6.
Girls Doubles: Burkett-Burgin def. Sidney-Cobb, 1-6, 7-6, 6-1; Innersity-Gettmeyer lost to Whizen-McGraw, 6-2, 6-4; Smith-Spears lost to Everhardt-McGrath, 6-2, 6-1.

Junior high action

Goddard posted a 26-6 victory over Bonham in an eighth-grade Midland-Odessa Confer-

ence football game Saturday, then captured another pair of wins in seventh-grade action.

National Conference play found Goddard White defeating San Jacinto White 12-8, while Goddard Red and Alamo Scarlet tied at 12-12. Also, San Jacinto Green posted a 36-6 win over Alamo Gray.

American Conference action saw Goddard White beat San Jacinto White, 26-18. And Alamo Scarlet got by Goddard Red, 24-18, while Alamo Gray beat San Jacinto Green, 28-8.

Saturday's other junior high game was in the Midland City Conference, where San Jacinto edged Alamo, 8-6.

Bacek hits ace

Linda Bacek notched her first hole-in-one Friday at Hogan Park.

Bacek, playing with Chales Roberts, Karen Baggett and Jacque Hyatt, scored the ace on No. 22, using a six iron on the 120-yard hole.

Compiled from Reporter-Telegram staff reports.

Cowboys aim to disrupt Chiefs' audibles

Associated Press

Kansas City Chiefs at Dallas Cowboys, noon, NBC (Cable Ch. 9).

had at the Washington game to open the season."

A noisy, sellout crowd had the Redskins jumping offides, missing audibles and in a general state of offensive confusion when the Cowboys opened the season with a 23-10 victory over the defending Super Bowl champions.

Jones also was on the cheerleading bandwagon.

"We want the crowd involved," Jones said. "We would like to see them very vocal, like at the Washington game. We'd like to see

more of it."

The Dallas fans were near-silent at last Sunday's 27-0 rout of the Seattle Seahawks.

"I guess that happens when you win big," Jones said. "But we really need help against Kansas City. We have seats close to the field. Texas Stadium was built for football. I think the enthusiasm of our fans could be a key factor in the game."

Dallas has won nine consecutive games in Texas Stadium, it's best home winning streak since winning 18 in a row back in the early 1980s. The Cowboys haven't lost at home since the New York Giants beat them on Sept. 29, 1991.

"Teams sometimes complain

about the shadows and sunlight in Texas Stadium and the crown of the field," Jones said. "I think the big difference we are winning at home now is the talent on the field and the fans in the stands."

The Cowboys (4-1) are four-point favorites over the Chiefs (4-2) mainly because of the homefield edge. The Kansas City game was sold out in July.

"We're one of only nine NFL teams who have sold out all their home games," Jones said. "We know our fans can be vocal."

Dallas and Kansas City are infrequent opponents. The game marks only the fifth meeting between the clubs.

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NHL Standings

W L T Pts

Pittsburgh	4	0	2	10
New Jersey	4	0	2	10
NY Rangers	3	0	2	9
Washington	3	0	2	9
NY Islanders	2	2	1	7
Philadelphia	2	3	1	7
Atlanta	2	3	1	7
Quebec	4	1	0	10
Montreal	3	0	3	9
Buffalo	3	0	3	9
Ottawa	1	4	0	6
Hartford	1	5	0	5
Calgary	1	5	0	5

W L T Pts

Detroit	3	2	2	10
Minnesota	3	2	2	10
Toronto	2	2	2	8
Tampa Bay	2	3	2	8
St. Louis	2	4	0	6
Chicago	1	5	0	5
Smythe Division				
Vancouver	4	0	0	10
Los Angeles	4	0	0	10
Calgary	4	0	0	10
Winnipeg	2	4	0	6
Edmonton	1	5	0	5
San Jose	1	5	0	5

Saturday's Games

Late Games Not Included
Pittsburgh 7, Hartford 3
Washington 6, Buffalo 4
St. Louis 6, Quebec 5
New York Islanders 6, N.J.

Rangers 3
Detroit 4, Edmonton 2
New Jersey 2, Philadelphia 1
Montreal 4, Minnesota 3
Toronto 4, Chicago 3
Boston 4, Los Angeles, 3
Calgary at San Jose, 8 p.m.

Sunday's Games
Winnipeg at Philadelphia, 7 p.m.

Minnesota at Toronto, 7 p.m.
New York Islanders at N.J. Rangers, 7:35 p.m.
Vancouver at Chicago, 8 p.m.

NHL Summary

Blues 6, Nordiques 2

St. Louis 1, St. Louis 2

First Period—1. St. Louis (Rich Sutter), 2:47 (sh).
Second Period—1. St. Louis (Sutter), 12:35 (pp). 3. Quebec (Y. Kovalenko), 13:23.

Second Period—4. Quebec (R. Lindy), 5:22. 5. Kovalenko 1 (Hull, Norwood), 6:1. 6. St. Louis (Rich Sutter), 12:18. 7. St. Louis (Sutter), 12:18. 8. Quebec (J. Sutter), 12:18. 9. Quebec (Kovalenko 1), 12:18. 10. St. Louis (Sutter), 12:18.

Third Period—1. St. Louis (Kovalenko, Janney), 6:30. 2. St. Louis (Kovalenko), 6:30. 3. St. Louis (Kovalenko), 6:30. 4. St. Louis (Kovalenko), 6:30. 5. St. Louis (Kovalenko), 6:30. 6. St. Louis (Kovalenko), 6:30. 7. St. Louis (Kovalenko), 6:30. 8. St. Louis (Kovalenko), 6:30.

Bears escape Cougars

Loss comes in Houston's SWC opener

Associated Press

WACO, Texas — Receiver Reggie Miller ran for two touchdowns and Baylor's defense stopped Houston in key situations Saturday to lead the Bears to a 29-23 victory.

Miller scored two third quarter touchdowns on end around runs of 14 and 9 yards. Prior to the game he had rushed only once this year for a 6-yard loss.

The loss dropped Houston to 2-3 in its Southwest Conference opener. Baylor improved to 4-3 and 3-1.

Houston quarterback Donald Douglas brought the Cougars within striking distance on a 10-yard scoring pass to Ron Peters with 5:43 left in the game.

But Baylor controlled the ball from then on, mostly on up the middle runs by 280-pound Robert Strait.

The Bears took control of the game in the third quarter after Baylor defensive end Albert Fontenot stripped the ball from quarterback Jimmy Klinger, who alternated with Douglas throughout the day.

On the Houston 14, quarterback J.J. Joe pitched to Miller who

scampered around the left end and scored untouched to help Baylor take a 21-10 lead.

On the next series, Klinger connected on six passes, including a 2-yard scoring toss to Peters. Peters, however, dropped the two-point conversion pass, and Houston trailed 21-16.

Miller started Baylor's next drive with a juggling 39-yard reception, and ended it with another TD. Joe ran in for the two-point conversion to give Baylor a 29-16 lead with 3:18 left in the third quarter.

In the first half, Baylor erased a 3-0 deficit and then stood strong near the goal line late in the second quarter to prevent Houston from taking a halftime lead.

Trailing 14-10, the Cougars drove to the 3, but lost six yards on two running plays and an incomplete. Houston couldn't even salvage a field goal as Trace Craft's 22-yarder sailed wide left after a low center snap.

Earlier, Craft kicked a 47-yard field goal to give Houston a 3-0 lead.

The Bears then produced a 75-yard drive on the ground with

Strait punching it through from the 1 for a 7-3 lead.

Baylor took a 14-3 lead after a 40-yard drive set up by linebacker LeShai Maston's interception of a Douglas pass.

But Douglas and the Cougars bounced right back driving 77 yards on four running plays with Lamar Smith following his blockers and then bouncing off tackles to drive 36 yards into the end zone.

Houston 3 7 6 7-23
Baylor 7 7 15 0-29

HOU—FG Craft 47
HOU—Strait 1 run (Weir kick)
BAY—Joe 4 run (Weir kick)
HOU—L. Smith 36 run (Craft kick)
BAY—Miller 14 run (Weir kick)
HOU—Peters 2 pass from Klinger (Pass fails)
BAY—Miller 9 run (Joe run)
HOU—Peters 10 pass from Douglas (Craft kick)

First downs 24 23
Rushes-yards 25-157 61-307
Passing 235 112
Return Yards 19 23
Comp-Att-Int 25-39-2 6-16-2
Punts 3-41 4-42
Fumbles-Lost 2-1 1-1
Penalties-Yards 9-77 6-39
Time of Possession 24:41 35:19

INDIVIDUAL STATISTICS
RUSHING—Houston, L. Smith 10-72, Douglas 9-64, Sanders 2-3, Klinger 4-(minus 20), Baylor, Mims 10-83, Joe 13-47, Strait 18-52, Bell 9-50, Henry 4-31, R. Miller 2-23, Henry 5-13.

PASSING—Houston, Douglas 13-21-2-135, Klinger 12-19-0-110, Baylor, Joe 6-16-2-112.

RECEIVING—Houston, Gilbert 6-72, S. Smith 6-54, Jack 4-48, Peters 3-27, Adams 1-17, Good 2-16, Sanders 1-7, Baylor, R. Miller 2-53, McKenzie 1-31, Henry 1-16, Bonner 2-13.

Torretta leads 'Canes by TCU

Associated Press

MIAMI — Gino Torretta emerged from a slump by throwing for 350 yards and three touchdowns to break two school career records and lead the second-ranked Hurricanes past Texas Christian 45-10.

Torretta completed only 31 of 79 passes in victories over Florida State and Penn State the past two weeks, prompting Erickson to dismiss the significance of statistics.

But Torretta's numbers had a big impact on TCU. The senior completed 20 of 35 attempts, including touchdown tosses of 68, 46 and 16 yards, and broke records

A&M: Lengthy touchdown runs spark Aggies

(From 1B)

Rice 2.

The Owls changed their offensive and defensive patterns to confuse the Aggies.

"We fought 'em tooth and nail for three quarters," Rice coach Fred Goldsmith said. "This is as scrappy a game as we've had since I've been at Rice. They were just too good."

Texas A&M defensive coordinator Bob Davis said Rice "surprised us with a stretch (four wide receiver) offense. We did a good job to make it to halftime so we could adjust. We came back with six defensive backs."

The Aggies charged 52 and 47 yards to touchdowns on their first two possessions. Jeff Granger hit Tony Harrison with a 24-yard scoring pass and Hill dashed 28 yards.

Elusive Rice quarterback Bert Emanuel, who can run the 40-yard dash in 4.3 seconds, rallied the Owls to cut the halftime deficit to 14-9.

Darrell Richardson kicked a 24-yard field goal for the Owls. Then Emanuel completed two 15-yard passes and ran 10 yards for a first down to set up Trevor Cobb's 3-yard scoring run. Rice went for two points but Cobb's halfback pass was intercepted by defensive end Eric England.

Cobb, the nation's No. 4 runner, broke the SWC career all-purpose yardage record set by Houston's Chuck Weatherspoon in 1990. Cobb, who gained 84 yards on 18 carries and caught two passes for 21 yards on Saturday, has 5,741 all-purpose yards, 26 over Weatherspoon's mark.

Cobb moved ahead of Auburn's Bo Jackson into 21st position on the NCAA's career rushing list with 4,312 yards.

"We put in some new wrinkles and caught them by surprise," Cobb said. "It worked for awhile but they adjusted."

Rice 0 0 0 0-9
Texas A&M 14 0 7 14-35
A&M—Harrison 24 pass from Granger (Venetoulis kick)
A&M—Hill 27 run (Venetoulis kick)
Rice—FG Richardson 24
Rice—Cobb 3 run (pass failed)
A&M—Hill 2 run (Venetoulis kick)
A&M—Mathews 50 pass from Thomas (Venetoulis kick)
A&M—Harrison 58 pass from Pullig (Venetoulis kick)

First downs 18 13
Rushes-yards 41-130 29-125
Passing 143 285
Return Yards 64 75
Comp-Att-Int 11-25-2 16-30-0
Punts 9-38 9-48
Fumbles-Lost 2-1 0-0
Penalties-Yards 6-45 13-112
Time of Possession 34:08 25:52

INDIVIDUAL STATISTICS
RUSHING—Rice, Cobb 2-21, Howard 1-27, Balady 3-36, Allen 1-17, Lee 2-20, Crier 1-15, Crowe 1-7, Texas A&M, Harrison 3-88, Mathews 3-79, Carter 3-63, Groce 1-11, Schorp 1-14, D. Smith 1-13, Clay 1-11, Singleton 1-17.

held by Vinny Testaverde for career passing yardage and Craig Erickson for total offense.

Miami (6-0), which trails No. 1 Washington by one point in the latest rankings, was a 38-point favorite over TCU (1-4-1) and needed a lopsided win to keep pace in the national championship race.

Miami's offense had scored just four touchdowns in the previous three games, which the Hurricanes won by a combined seven points. Erickson said last week that the offense was on the verge of exploding, and Torretta proved him right in the first quarter by hitting Lamar Thomas on a 68-yard bomb. Thomas caught the ball over his shoulder at the 20 and dragged safety Tony Rand into the end zone. The play was Miami's longest of the season.

TCU's Jeff Wilkinson made a 42-yard field goal to close the margin to 17-3 with 54 seconds left in the half, but Miami answered just 17 seconds later. Jonathan Harris returned the kickoff 54 yards, and on the next play Torretta hit Horace Copeland at the goal line for a 46-yard score.

In the third quarter, Torretta and Harris teamed for a 16-yard touchdown.

Torretta, 20-1 as a starter, departed late in the third period with 6,204 career passing yards and 6,267 yards in total offense. The old records were 6,058 passing for Testaverde (1982-86) and 6,021 total offense for Erickson (1987-90).

Miami senior Stephen McGuire,

still recovering from a knee injury suffered last season, scored his first two touchdowns of the season on runs of 1 and 6 yards. His 32 career scores tied the school record set by Melvin Bratton (1984-87).

The Horned Frogs' lone touchdown came in the third quarter on a flea-flicker — or Frog-flicker — covering 47 yards from Leon Clay to Jimmy Oliver.

The Hurricanes extended the nation's longest winning streak to 24 games and posted their 49th consecutive victory at the Orange Bowl. Since 1982, they've won 12 in a row over Southwest Conference teams by an average score of 40-9.

TCU 0 3 7 0-10
Miami 10 14 14 7-45

First downs 15 27
Rushes-yards 28-52 38-157
Passing 169 407
Return Yards 56 31
Comp-Att-Int 14-36-3 25-43-1
Punts 8-40 5-40
Fumbles-Lost 0-0 0-0
Penalties-Yards 7-42 18-145

INDIVIDUAL STATISTICS
RUSHING—Texas Christian, Modkins 20-53, Ogelsby 2-9, M. Jackson 1-2, Knake 1-0, Oliver 1-minus 2, Clay 3-minus 10, Miami, Ferguson 19-74, Bennett 9-41, McGuire 7-33, Marucci 5-8, L. Jones 2-5, Torretta 2-minus 4.

PASSING—Texas Christian, Clay 12-28-2-155, Knake 2-10-1-14, Miami, Torretta 20-35-1-350, Costa 6-8-0-57.

RECEIVING—Texas Christian, Noack 5-41, Woodley 3-40, Oliver 2-56, M. Jackson 2-22, Shipley 1-5, Modkins 1-5, Miami, C. Jones 6-72, Thomas 4-93, J. Harris 4-57, Bell 4-49, Copeland 3-96, Ferguson 2-33, Tellison 1-5, Spencer 1-2.

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P185/80R13	24.99 Ea.	30.99 Ea.	36.99 Ea.	42.99 Ea.
P185/75R14	27.99 Ea.	33.99 Ea.	39.99 Ea.	45.99 Ea.
P195/75R14	28.99 Ea.	34.99 Ea.	40.99 Ea.	46.99 Ea.
P205/75R14	29.99 Ea.	35.99 Ea.	41.99 Ea.	47.99 Ea.
P215/75R14	32.99 Ea.	38.99 Ea.	44.99 Ea.	50.99 Ea.
P215/75R15	33.99 Ea.	39.99 Ea.	45.99 Ea.	51.99 Ea.
P225/75R15	34.99 Ea.	40.99 Ea.	46.99 Ea.	52.99 Ea.
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P185/80R13 51.99	P185/80R13 45.99	P185/80R13 58.99
P195/75R14 53.99	P195/75R14 47.99	P195/75R14 60.99
P205/75R14 55.99	P205/75R14 49.99	P205/75R14 62.99
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P225/75R15 59.99	P225/75R15 53.99	P225/75R15 66.99
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155SR13 22.99	155SR13 31.99	155SR13 38.99
175SR14 31.99	175SR14 40.99	165/70SR13 39.99
185SR14 32.99	185SR14 42.99	175/70SR13 42.99
185SR15 34.99	185SR15 44.99	185/70SR13 45.99
175/70SR13 28.99	185/70SR13 46.99	185/70SR14 48.99
185/70SR13 29.99	185/70SR14 48.99	195/70SR14 50.99
185/70SR14 31.99	205/70SR14 50.99	
195/70SR14 34.99		
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P205/60R15 65.99	P235/60SR15 72.99	195/60HR15 73.99
P215/60R15 67.99	P255/60SR15 77.99	205/60HR15 74.99
P215/60R15 67.99	P215/60SR15 70.99	215/60HR15 75.99
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33x12.50R15C 121.99	31x10.50R15C 103.99	
	32x11.50R15C 111.99	
	33x12.50R15C 116.99	
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Associated Press

KNOXVILLE, Tenn. — Lassic rushed for two touchdowns as beat No. 13 Tennessee straight w Volunteers.

Lassic scored on runs as Alabama eastern Conference halftime lead. Tennessee cut it to 17-10 on a yard scoring pass early in the fourth quarter. Tennessee couldn't score again in the fourth quarter.

The Vols got a first down on their 48 yard line. But two plays later, Tennessee intercepted a pass that was tipped by chael Rogers to p de's 17th consecutive touchdown.

It was the second touchdown for Tennessee, which Arkansas last week.

Alabama Tennessee

Alabama—Lassic 1 run (Proctor kick)
Alabama—FG Proctor 33
Alabama—Lassic 1 run (Proctor kick)
Alabama—FG Proctor 33
Alabama—Lassic 1 run (Proctor kick)
Alabama—FG Proctor 33

First downs 12 11
Rushes-yards 25-157 61-307
Passing 235 112
Return Yards 19 23
Comp-Att-Int 25-39-2 6-16-2
Punts 9-38 9-48
Fumbles-Lost 2-1 0-0
Penalties-Yards 6-45 13-112
Time of Possession 34:08 25:52

INDIVIDUAL STATISTICS
RUSHING—Alabama, Lassic 10-72, Douglas 9-64, Sanders 2-3, Klinger 4-(minus 20), Baylor, Mims 10-83, Joe 13-47, Strait 18-52, Bell 9-50, Henry 4-31, R. Miller 2-23, Henry 5-13.

PASSING—Houston, Douglas 13-21-2-135, Klinger 12-19-0-110, Baylor, Joe 6-16-2-112.

RECEIVING—Houston, Gilbert 6-72, S. Smith 6-54, Jack 4-48, Peters 3-27, Adams 1-17, Good 2-16, Sanders 1-7, Baylor, R. Miller 2-53, McKenzie 1-31, Henry 1-16, Bonner 2-13.

RECEIVING—Alabama, Lassic 10-72, Douglas 9-64, Sanders 2-3, Klinger 4-(minus 20), Baylor, Mims 10-83, Joe 13-47, Strait 18-52, Bell 9-50, Henry 4-31, R. Miller 2-23, Henry 5-13.

PASSING—Alabama, Lassic 10-7

'Bama nips Tennessee for Vols 2nd straight loss

Associated Press

KNOXVILLE, Tenn. — Derrick Lassic rushed for 142 yards and two touchdowns as No. 4 Alabama beat No. 13 Tennessee for its seventh straight win over the Volunteers.

Lassic scored on a pair of 1-yard runs as Alabama (7-0, 4-0 South-eastern Conference) built a 17-3 halftime lead. Tennessee (5-2, 3-2) cut it to 17-10 on Heath Shuler's 3-yard scoring pass to David Horn early in the fourth quarter, but couldn't score again against the nation's top-rated defense.

The Vols got a final chance after recovering Martin Houston's fumble on their 48 with 1:33 remaining. But two plays later, Chris Donnelly intercepted a pass by Shuler that was tipped by Alabama's Michael Rogers to preserve the Tide's 17th consecutive victory.

It was the second straight loss for Tennessee, which was upset by Arkansas last week.

Alabama	7	10	0	0-17
Tennessee	0	3	0	7-10
Ala.—Lassic 1 run (Proctor kick)				
Ala.—FG Proctor 33				
Ala.—Lassic 1 run (Proctor kick)				
Tenn.—FG Beckwith 44				
Tenn.—Horn 3 pass from Shuler (Beckwith kick)				
First downs	23	23		
Rushes-yards	66-301	26-78		
Passing	54	116		
Return Yards	34	47		
Comp-Att-Int	5-11-0	12-23-1		
Punts	6-36	8-39		
Fumbles-Lost	4-1	1-0		
Penalties-Yards	5-42	3-33		
Time of Possession	36:56	23:04		

No. 1 Washington 24, Oregon 3
EUGENE, Ore. — Mark Brunell, starting for the first time since his MVP performance in the 1991 Rose Bowl, threw for a touchdown, ran for another and lofted a 50-yard bomb to set up a third as No. 1 Washington beat Oregon.

Josh Moore intercepted two passes, one in the end zone, as the Huskies (6-0 overall, 4-0 Pac-10) ran their winning streak to 20 games.

Oregon (3-4, 1-3) averted its first shutout in seven years when Tommy Thompson kicked a 56-yard field goal with 11:35 to play.

Washington broke the game open by scoring 10 points in the final 1:14 of the first half.

Washington	0	17	0	24
Oregon	0	0	0	3
Was.—Brunell 14 run (Hanson kick)				
Was.—Shuler 31 pass from Brunell (Hanson kick)				
Was.—FG Hanson 36				
Was.—Kaufman 1 run (Hanson kick)				
Ore.—FG Thompson 56				
First downs	19	17		
Rushes-yards	48-168	33-66		
Passing	177	202		
Return yards	14	12		

U.S. gets revenge against Japan

N.Y. Times News Service

NEW YORK — Most of the hair grew back after, say, the first month or so. Of course, that didn't make any of the members of the U.S. volleyball team feel much better. It wasn't their baldness that nagged at them after they returned home from Barcelona, Spain. It was the color of their Olympic medals — bronze — and the reason they had received them.

Saturday at Madison Square Garden, the Americans looked almost normal — Steve Timmons was carrot-topped, Dan Greenbaum had sideburns to match his stubbly goatee, and Bob Samuelson was still bald. It was clear from the outset, though, that this wasn't just a normal match on a normal day. The opponent in the exhibition was Japan, the team that beat the Americans at the Summer Olympics — not on the

court but in a protest filed afterward, a protest that overturned the Americans' five-set victory and eventually forced them to face Brazil, the gold-medal winner, in the semifinals rather than the championship game.

Nearly two months later, the two teams met again on the Madison Square Garden floor for what was being billed as "The Court of Appeals." It took four sets and nearly three hours, but the United States avenged their Barcelona defeat with a 14-16, 15-8, 15-3, 16-14 victory in an emotional match that featured three yellow cards (one each to Timmons and Greenbaum, and one to a Japanese player), lots of screaming and a good dose of competitive animosity. "Every time you step on the floor it's a big deal," said Samuelson, "but I especially want to beat Japan every time we face them."

Following the ruling, the Americans shaved their heads as a show

of support for Samuelson, who cannot grow hair because of an illness. Samuelson had received two yellow cards in that match, but the officials didn't award the Japanese a point after his second, as the rules indicate. He was the focus of the protest — and the reason the U.S. victory was overturned.

"The initial anger has worn off, but I still think we got cheated," Samuelson said. "If I sit and think about it, I'll work myself into a fury."

The Americans seemed to ride emotion alone to a 10-0 lead in the first game before falling apart and allowing Japan to come all the way back for a 16-14 victory in a set that took nearly an hour to complete. The next two games were dominated by the U.S. team, but Japan took a commanding lead at one point in Game 4 before the Americans rallied to take the match.



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Xenophobics rule Atlanta press

ATLANTA (AP) — The Atlanta Journal and The Atlanta Constitution aren't prepared for the possibility of a Canadian team winning the World Series.

Saturday's World Series preview section in the papers, which are published jointly, led with a huge headline: "Message to Toronto: This is OUR game!" The "to"

was in blue reverse type and the "OUR" was in red. Underneath was a large-type article written by Frank Hyland.

"...The Canadians are riding across the border trying to wrest away the Holy Grail of American sport and cart our game off to the frozen North," he wrote, with "our" in italics.

Public Welcome

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SUNDAY, OCT. 18
9 a.m.-5 p.m.

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with William Floyd's 1-yard TD plunge.

Top 10

Comp-Att-Int	12-23-0	16-30-2
Punts	6-39	8-29
Fumbles-Lost	0-0	2-2
Penalties-Yards	5-55	6-36

INDIVIDUAL STATISTICS

RUSHING—Washington, Kaufman 26-91, Thomas 3-38, M.Jones 3-20, Hobert 2-13, Johnson 3-10, Turner 3-6, Brunell 8-minus 13, Oregon, Whittle 14-80, Burwell 9-17, Sheddick 1-3, Deadwiler 1-minus 4, O'Neil 8-minus 30.

PASSING—Washington, Brunell 9-15-0-151, Hobert 3-0-26, Oregon, O'Neil 16-35-2-202.

RECEIVING—Kraik 3-78, Mack 3-34, Kaufman 2-0, Shelly 1-31, M.Jones 1-19, Bjornson 1-11, Turner 1-4, Oregon, A.Jones 4-51, Deadwiler 4-43, Whittle 3-55, Tate 2-33, Perry 2-11, Harris 1-9.

No. 3 Michigan 31, Indiana 3
BLOOMINGTON, Ind. — Tyrone Wheatley and Derrick Alexander turned Indiana mistakes into big-play touchdowns, and No. 3 Michigan beat the Hoosiers for its 16th straight Big Ten Conference victory.

Wheatley, the Big Ten leader in rushing and all-purpose yardage, scored twice in the second quarter, once on a 26-yard pass from Elvis Grbac and once on a 54-yard run on the first play after an Indiana fumble.

Alexander, who scored on an 8-yard pass from Grbac in the first quarter, added a touchdown on a 70-yard punt return in the closing seconds of the first half.

Michigan	7	24	0	31
Indiana	3	0	0	3
Ind.—FG Bonnell 36				
Ind.—Alexander 8 pass from Grbac (Elezovic kick)				
Ind.—Wheatley 26 pass from Grbac (Elezovic kick)				
Ind.—Wheatley 54 run (Elezovic kick)				
Ind.—FG Elezovic 33				
Ind.—Alexander 70 punt return (Elezovic kick)				

INDIVIDUAL STATISTICS

RUSHING—Michigan, Wheatley 16-134, J.Johnson 15-88, Davis 8-59, Grbac 3-minus 153, Hayes 1-8, W Smith 1-2, Indiana, Priddy 8-24, Batts 8-25, Law 3-16, Lewis 1-19, Green 12-minus 48, Paci 2-minus 40.

PASSING—Michigan, Grbac 13-17-0-132, Collins 3-5-0-20, Indiana, Green 10-18-0-52, Paci 4-4-0-36.

RECEIVING—Michigan, Alexander 3-42, Smith 3-26, Wheatley 1-26, McGee 3-25, Malveaux 2-20, J.Johnson 3-2, Toomer 1-9, Indiana, Hayes 8-89, Lewis 2-27, Law 1-6, Batts 1-7, Matthews 1-20, Batty 1-0.

No. 6 Florida St. 29, No. 16 Ga. Tech 24

ATLANTA — Charlie Ward passed for two touchdowns Saturday in No. 6 Florida State's victory over No. 16 Georgia Tech that guaranteed the Seminoles at least a share of the Atlantic Coast Conference title in their first year in the league.

The winning touchdown came on Ward's 17-yard pass to Kez McCorvey with 1:48 left after Florida State (6-1 overall, 6-0 ACC) had recovered an onside kick.

The Seminoles trailed 21-7 in the fourth quarter before Ward, who had two passes intercepted by Marlon Williams in the third quarter, got untracked.

Ward passed to McCorvey for 29 yards and kept for 15 in an 11-play, 80-yard scoring drive that ended

Detmer's long pass was intercepted moments later, but Sooners fullback Kenyon Rasheed fumbled the ball back to Colorado at the Oklahoma 38 on the next play.

Detmer completed passes of 17 and 18 yards to Charles Johnson to set up Lamont Warren's 3-yard TD run with 3:14 left, drawing the Buffs within 24-21.

The Sooners ran the clock down to 38 seconds before punting it away, leaving Colorado (5-0-1, 1-0-1) at its own 40 with no timeouts left.

Detmer's 23-yard pass to T.J. Cunningham on third-and-7 got the Buffs to the Oklahoma 36, and Berger's line-drive kick sailed through as time expired.

Oklahoma 24, No. 7 Colorado 24
BOULDER, Colo. — Mitch Berger, subbing for regular kicker Pat Blottiaux in the second half because of an injury, kicked a 53-yard field goal on the final play of the game and No. 7 Colorado salvaged a tie with Oklahoma.

Colorado freshman quarterback Koy Detmer shrugged off seven turnovers — including five interceptions — to direct the Buffaloes (5-0-1 overall, 1-0-1 Big Eight) to two touchdowns and the tying field goal, all in the fourth quarter.

Oklahoma linebacker Aubrey Beavers and cornerback Darrius Johnson scored touchdowns, and tailback Dewell Brewer bolted 72 yards for another score as Oklahoma (3-2-1, 1-0-1) appeared to have successfully overcome more than 100 yards in penalties in taking a 24-14 lead with 5:09 remaining.

The apparent clinching score came on Johnson's 17-yard interception return.

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More Sports/8B

INDIVIDUAL STATISTICS

RUSHING—Oklahoma, Brewer 10-88, Rasheed 15-56, Williams 11-51, Gundy 7-minus 30, Colorado, Warren 14-40, Hill 3-5, Salaam 3-4, Detmer 8-minus 22.

PASSING—Oklahoma, Gundy 10-15-3-147, Colorado, Detmer 33-50-5-418.

RECEIVING—Oklahoma, Rasheed 3-35, Warren 1-57, Brewer 1-17, Brady 1-16, Mickey 1-10, Hall 1-8, T.Collins 1-8, Mills 1-minus 2, Colorado, Westbrook 9-108, C.Johnson 9-182, Fauris 6-60, Cunningham 3-43, Warren 2-14, Embree 2-8, Carruth 1-4, Salaam 1-0, Detmer 1-minus 1.

Arizona 21, No. 8 Stanford 6
STANFORD, Calif. — Arizona's attacking defense sacked Stanford's quarterbacks eight times and forced a key fumble on the 1-yard line as the Wildcats upset the eighth-ranked Cardinal.

The Wildcats, who pushed Miami to the brink before losing 8-7 on Sept. 26, never gave Stanford's offense a chance to get going. That allowed Arizona's running game to wear down Stanford's defense, top ranked in the Pacific-10 Conference.

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Boston College 35, No. 9 Penn State 32
STATE COLLEGE, Pa. — Glenn Foley threw four touchdown passes, three in the final 4:00 of the first half, as No. 20 Boston College withstood a furious second-half Penn State rally and upset the No. 9 Nittany Lions.

Foley completed 21 of 37 passes for 344 yards as the Eagles (5-0-1) beat Penn State (5-2) for only the second time in 21 meetings. Boston College last beat Penn State in 1983 and had lost its 10 previous games at Beaver Stadium.

Penn State scored two touchdowns in the fourth quarter and recovered a late onside kick before BC's Joe Kamara intercepted a long Kerry Collins pass at the BC 17 with 1:33 to play to stop the comeback.

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Readers' views on: Local, national candidates

Reader wonders why paper creates illusions

Two articles caught my attention in the *Reporter-Telegram* on Oct. 11: An article entitled, "Good news for Bush: Clinton gets in trouble," by none other than William R. Hearst Jr. and the other article entitled "Police arrest dead beat dad in Utah." How could these two possibly be related? Bear with me.

I searched the Hearst article for the good news for Bush and learned that the rich and upper middle-class under Bush had more disposable income. That's news? Good news for whom?

There is more. Michael Kingsley, senior editor of "New Republic" magazine raised the question: "Which of the candidates (if elected) might rise above politics to reach statesmanship?" To put it crudely Kingsley added, which one might break his promise and betray the voters for their own good. A strong case can be made, the man is George Bush. Onward through the fog. "Clinton gets in trouble" — I learned that he went to Moscow when he was 23 years old. I knew that and also knew that 50,000 other Americans went to Moscow that year. Where is the news?

I learned that Bill Clinton opposed the Vietnam War. Big deal, I did too, and eventually all of America agreed that is should never have happened. It was a mistake and men of character admit their own mistakes and don't try to blame others for it. Perhaps Clinton's other mistake was being ahead in his thinking — but not wrong because we all came to the same conclusion.

Then I found, in the obscure article, that the dead beat dad who was arrested was found at a GOP fundraiser, sitting and dining with President Bush.

One has to wonder why? Also why would he donate \$500,000 to the campaign of "The Family Values" president when he was \$100,000 behind in child support. The man also has a lawsuit accounting to hundreds of thousands of dollars against him.

I suppose Hearst answered the last question — under Bush he had more disposable income, but unfortunately it doesn't trickle down, not even to his own children.

Last but not least why does the *Reporter-Telegram* create all this illusion for us to see instead of the facts?

The real "news" is we aren't buying it — so give us a break.

Doris Fly
Midland

Woman believes we're blind to true prosperity

The campaign theme is economic recovery, but we're blinded to what really brings prosperity to a nation. Instead of economic proposals, look at the heart of a candidate. On what does he base his decisions?

Psalm 33:12 says, "Blessed is the nation whose God is the Lord." Isaiah 60:12 says "For the nation or kingdom that will not serve you (God) will perish; it will be utterly ruined."

Our founding fathers based laws on the Bible; we now allow laws which contradict it. By turning away as a nation, we are now under God's judgment, not his protection. The national debt, AIDS, violent crime, divorce, illegal drug use, abortion, teen-age pregnancy and illiteracy rate per capita have all increased. At the same time SAT scores have decreased, and are now at their lowest in our history. This happened when God and prayer were taken out of public schools.

Candidates for various offices support abortion as a choice. But Psalms 139:13-16 says God formed us in our mother's womb and that all our ordained days were written in his book before one of them came to be. God sees a "fetus" as a person and doesn't approve of abortion.

We cannot expect to elect those to office who oppose God's laws and to then have their proposals, including economics, to work. God's hand of blessing will simply not be there. We must uphold laws reflecting God's and reverse the ones which violate his — by electing those who will. 2 Chronicles 7:14 promises that when we humble ourselves, seek his face, turn from our wicked ways — then God will hear, forgive, and heal our land.

Karen Lawhon
Odessa

Voter does not want coward for president

I don't know where the political polls are coming from — no one has ever asked for my opin-

ion. But then again, who ever promised a Vietnam veteran a rose garden? The very thought that one could choose between serving his country or smoking the funny weeds with the flower children is a true indication that we have liberty and the freedom of choice in America. However, smoking funny weeds and organizing political demonstrations in foreign lands during a time in which American boys are being slaughtered in the jungles of Vietnam are two completely different ideologies.

I don't care if "Willie" Clinton dodged the draft — United States Marines want men, not cowards, when the bullets fly. The fact is, "Willie" Clinton was organizing political rallies against American intervention in Southeast Asia in 1969, which signifies his support for the Communist takeover of South Vietnam and the death of American combat soldiers.

Cowards appear in many forms and heroes die a lonely death while protecting the freedoms of the coward. I don't want an anti-American demonstrator representing the interests of the brave men and women that gave their lives on foreign soils to preserve American freedoms. The American choice is clear: George Bush or Ross Perot. Willie should consider running for politics in Russia now that the political barriers are open. He appears to have long lasting friendships there.

John W. Heide
Midland

Americans should listen to what Perot has to say

It is discouraging to say the least, what has become of the American dream. We have lived in many parts of this country, and we have seen the decay of the job base, and homeless families struggling to survive in this stagnant economy. What Perot did in July was sit back and monitor both political parties in hopes that they had relevant ideas to stabilize and revitalize this country.

To me that was a smart move — why tear the country apart if it was not necessary? If there was a viable option to the restructuring of the economic base in our great land why didn't the two parties address the issues? It seems they would rather bash credibility and listen to glittering generalities than face up to what this country needs at this point in time. Besides that, Perot had no idea of his base of support in other states, and it would be useless to put everything on the line if only a small percentage of the country had the option to make a clear choice at the polls in November.

There is no way that a president can work with a Congress if their platforms are at the extreme left or right, neither is open to discussion or does anything for the good of the people. It is time that people start voting for the man instead of the party. Desperate times are ahead for America, and desperate measures must be taken to assure the future for our children and grandchildren. Many people have made mistakes in the past, but there are few that admit it and fewer politicians that own up to it.

I think Perot deserves an open ear and an open mind from our fellow citizens. We can only benefit from what he has to say, and if the general public truly wants a change, they need to start listening with open ears and start reading between the lines.

Karen Johnson Heide
Midland

Reader corrects letter about Bush's character

The letter from Steven C. Price (Letters, Oct. 11) in which he was "correcting" an earlier anti-Bush letter was also incorrect in some points.

First, national health care is not necessarily a right, but I believe that it is the Christian thing to implement. By law, hospitals have to treat people who can't pay when their illnesses become life-threatening. Why not save money and treat them before they need to be hospitalized? Even Bush now supports increased access to health care through government subsidy (giveaways) of insurance payments. Of course, if he really believed in this issue, he would have done something about it when he took office, not just as an election year ploy.

Capital gains are income. That is why it is taxed as income. There is nothing inherently immoral about this. I agree that we should index the gains to the inflation rate, though.

And Price is wrong about

Our policy on letters

The *Reporter-Telegram* recognizes the "Letters to the Editor" format as an important forum for citizen opinion and encourages participation of all readers. To that end, we have set a few rules as possible. However, we must have some, and they are:

■ Letters must be signed and include a street address and daytime phone number for verification.

■ They should be no more than 350 words in length. While some lengthy letters are pub-

lished, we reserve the right to edit when necessary due to space limitations.

■ Only one letter per month per writer can be published.

Because we cannot research and verify all information in letters, by publishing them we neither imply nor guarantee the accuracy of information stated by writers.

Letters should be sent to: The Editor, Midland *Reporter-Telegram*, P.O. Box 1650, Midland 79702.

Bush being against government giveaways. He's all for government giveaways, just to those HE feels good get them. Bush gives aid to China and Iraq. I'd personally rather see the money given away in our own country, if we give it away at all.

Bush also wants to give away money to promote school choice. What would school choice accomplish? A lot of parents would get a portion of their child's religious education funded by the government while taking away money at nearby public schools. All this would do is make the public schools worse. Before spouting off about school choice, ask a public school teacher what is wrong with the public schools. I can assure you it is not that there are too many students from well-to-do families.

Where does he get the revisionist history that Congress made Bush raise taxes? George had spending programs he wanted, and HE asked Congress for a tax increase to fund them. It wasn't the Iraq war, as Quayle said (it didn't start for another six weeks). Congress didn't force him, he was veto-proof; nothing was passed without Bush's authorization.

I agree with his last paragraph. The issue is character. Bush and his campaign have shown none. The latest attack on Clinton's student travels is simply McCarthyism. Bush said he would do "whatever it takes" to win the election, and that is the only promise he has kept.

John Viveiros
Midland

Voter wants everyone to stick to political facts

It seems to be the trend, these days, to try and refute people's statements about political matters, with flag waving, jingoistic slogan quoting, innuendo, and downright fabrication.

This was very evident in Michael J. Tully's letter (Letters, Oct. 8). Certain facts have come out that point to the dealing with and coddling of Saddam Hussein during the 1980's, thinking he could get away with invading Kuwait. Also, the fact remains, Manuel Noriega of Panama was considered a friend to the United States, and his dictatorial ways and drug dealing were ignored for a number of years by our government. Where were Tully's letters when that was going on?

Concerning the paragraph about the numbers of American human lives lost in the four major military adventures in the last 12 years, what does it really matter if it was thousands (as it could have been) or hundreds (as it actually was) when the first one, was one too many, in needless, stupid adventures that could have been prevented or avoided? The loss of just one is an atrocity, particularly for the ones who have to load the body bag, as I did, too many times in Vietnam.

Finally, for the sake of historical accuracy, Jane Fonda posed alone beside a North Vietnamese anti-aircraft gun, not a tank. Bill Clinton wasn't on that trip.

Let's stick to all the facts and give the name-calling a rest.

Don Handley
Midland

Texas graduate wants apology from Guerrero

It is time for the real truth to come out regarding Lena Guerrero. The day she resigned the Railroad Commission, she told another lie. When asked when she found out about her degree problems, she said two weeks ago. However, in her news release, she said she found out when the reporters contacted her.

As president of the Midland Texas Exes, I researched the facts and they are as follows:

Ms. Guerrero was confronted about this issue more than 18 months ago when she was nominated for the Distinguished Alumnus Award presented by

the Ex-Students Association of Texas at Austin (by the way Lena, alumnus means attended or graduated). In her application, it stated she had received a degree from Texas. However, after checking the records, the Ex-Students Association advised her that the school's records did not reflect she earned a degree. Ms. Guerrero insisted this was not correct. She was then advised to take her diploma to the Registrar's office to work out any discrepancies. After all, no one wanted to accuse Gov. Ann Richards' hand picked commissioner of lying.

Later, Ms. Guerrero's staff at the Railroad Commission advised the Ex-Students Association that she was in the process of moving and the diploma was packed in some boxes. After they were unpacked, she would resolve the discrepancy. Yeah right!

As a real graduate of The University of Texas at Austin (whose diploma is proudly displayed), I am appalled at Ms. Guerrero's actions and continued deceptive practices. As a taxpayer, I am appalled and sickened by the type of people who would knowingly help her mislead us, especially since we pay their salaries. It is time for us to speak up. We do not need any more dead politicians who continue to vote or a Railroad Commissioner who continues to lie. Gov. Richards should know the truth is not really that hard to uncover if you really want to know it.

Ms. Guerrero publicly apologized for misleading the voters, but she has not apologized to all the real graduates for dragging our great university's name into her mud pit.

Jerry A. Weant
Midland

Retiree explains reasons we should vote for Baker

I am a Midland County retiree and I am encouraging the voters of Midland County to vote Nov. 3 for Carol Baker for county treasurer. Carol has the skills and experience needed for this important office. Her quiet "easygoing" ability to get the job done has made her an asset to all county offices. She knows and takes care of the present employees as well as retired people, records, payroll, credit union, submits government reports, receives and disperses all monies, handles all investments and many other duties.

Carol is active with family, church and community. She has done and will do a great job for Midland County. Her training, experience and dedication to this office of county treasurer will assure us, the taxpayer, that the office will be managed efficiently and courteously under her direction.

Jackie M. Ward
Midland

Woman thinks Baker isn't fit for treasurer

I am a concerned citizen of Midland County. I recently had access to Carol Baker's campaign contribution and expense report. I was astounded to see the accounting mistakes that were made.

If she can't keep simple records WITHOUT proofing her mistakes she has no business running for county treasurer. I certainly do not want her keeping any of my records.

Sherrie Minnick
Midland

Woman tells of Baker's disregard for accuracy

I have just reviewed Carol Baker's candidate's contributions and expenditure's report. I was appalled to find a mistake of some kind of every page. Incomplete and inaccurate figures, including a column total that was brought forward incorrectly, have been sworn true and correct by Ms. Baker.

Whether these mistakes were accidental or intentional on her part, the implications are very clear. A candidate with such disregard for accuracy will not have my vote for the county treasurer position.

Tracy Verrall
Midland

Midlanders should think about vote for treasurer

When reviewing a copy of a "Candidate/Officeholder Sworn Report of Contributions and Expenditures" which was filed with the Midland County Election Administrator by the "appointed" treasurer for Midland County, I could not believe this person has the nerve to advertise herself as efficient. Not only was the report messy, it was also riddled with errors. For instance:

1. Column for expenditures was added incorrectly.

2. The incorrect total became a completely different figure on the "Totals" page (also incorrect).

3. Requested information was left off of report.

I wonder if any information contained in the report was correct. It concerns me that our appointed county treasurer would file this report and sign an affidavit to swear/affirm its correctness with such obvious errors on it. She may be "endorsed" by the *Reporter-Telegram* and may have been "unanimously" selected by the Republican Party as their candidate of choice, but we Midland County voters better think twice before electing a county treasurer who has problems with simple addition.

Steve & Beverly Karman
Midland

Midland needs treasurer that keeps good records

Do we need a change in the Midland County Treasurer's office? This week I had the opportunity to review the contribution and expense reports of both candidates.

Mary Wilson's report was neatly typed, complete and accurate. However, our appointed county treasurer, Carol Baker, filed a report which was handwritten, incorrect and incomplete. Since keeping accurate records and filing reports is a very important part of the treasurer's job, I do not want to elect someone who cannot properly complete a very simple form. These reports are filed with the election administrator and are public records. I invite each of you to compare the two reports and decide who you will trust as Midland County Treasurer. Mary Wilson gets my vote!

I would also like to take this opportunity to let the public know that Carol Baker is running for an elected office, however, the records indicate that while she was eligible to vote in 1987, she did not bother to register to vote until 1979.

Melissa Hursh White
Midland

Baker has proven she can, will get job done

I am writing this letter to urge all registered voters to cast their vote for Carol Baker who is running for the Midland County Treasurer's position.

Having been an employee of the county for the last eight years, I have become familiar with Carol both professionally and personally. She has proven she can, and will, get the job done in the most efficient and cost-effective way. Personally, Carol has shown she is an honest and reliable person who genuinely cares about people.

Carol Baker would be a credit for Midland County and is definitely the most qualified candidate.

Sylvia Merritt
Midland

Baker has character, loyalty to be treasurer

On Nov. 3, one of the races to be decided is that of Midland County Treasurer. The candidates are Carol Baker and Mary Wilson.

Because of the magnitude of money the treasurer receives, invests and pays out, it is imperative that the individual holding this position be loyal and of a high moral character. Carol Baker is such a person.

Additionally, Carol has exhibited that she has the ability to work not only with the commissioners court, but with the county

employees and the general public as well.

Midland County is extremely fortunate to have such a diligent and qualified individual in its employ as Carol Baker. She has always taken pride in her work and is a dedicated public servant. When reliable employees are not always easy to find, wouldn't it be foolish, not to mention counterproductive, to vote such a person out of office in exchange for an individual who has not proven herself or her qualifications?

I would therefore suggest that, for these reasons, all those who intend on voting, vote for Carol Baker as Midland County Treasurer.

Jo Burns
Midland

Valencia neglects duties as county commissioner

On Sunday, Sept. 27, the *Reporter-Telegram* published a letter about Mrs. Louisa Valencia, the county commissioner for Precinct 3. I would like to express my opinion on how Mrs. Valencia has neglected her duty as commissioner in regard to the county roads in her precinct.

About two years ago Mrs. Valencia started construction on a private road south of Midland serving a private airport and four residences. This road was brought up to county standards at first by adding a roadbed as required. She had this road sprayed with a chemical and called it an experimental road. When the paving of County Road 1210 was complete in September 1992, Mrs. Valencia extended the paving to include this road and now calls it an extension of County Road 1210. With the cost of new road construction based on \$45,000 a mile, this seven-tenths of a mile long road cost the taxpayers about \$30,000. With no official county records of time and material, no one knows for sure.

In November 1991 I asked Mrs. Valencia when we could hope to get County Road 1218 bladed and the potholes in 1210 repaired. She said there was no time or money at that time.

Four school buses a day had to travel these roads and now had stopped. Emergency vehicles would have had to travel at a reduced speed. In December 1991 I contacted Judge "Bro" Seltzer about these roads, County Road 180 West and 1218 South were repaired within days. In January Mrs. Valencia contacted me by telephone and advised me I had no rights to do this, saying "she answered to no one but the voters in Midland County." She said at this time if I would deposit \$60,000 in escrow she would pave the 2.3 miles total of County Road 180 West and 1218 South.

With this in mind, I hope everyone will exercise their right to vote and elect Jo Ann Carr for commissioner of Precinct 3.

P.K. Williams
Midland

TODAY IN HISTORY

Today is Sunday, Oct. 18, the 292nd day of 1992. There are 74 days left in the year.

Today's highlight in history: One hundred years ago, on Oct. 18, 1892, the first long-distance telephone line between Chicago and New York was formally opened as Chicago Mayor Hempstead Washburne greeted his New York counterpart, Hugh J. Grant, who in turn wished success for the upcoming Columbian Exposition.

On this date:

In 1685, King Louis XIV of France revoked the Edict of Nantes, which had established the legal toleration of France's Protestant population, the Huguenots.

In 1767, the boundary between Maryland and Pennsylvania, the Mason-Dixon line, was agreed upon.

In 1867, the United States took formal possession of Alaska from Russia.

In 1873, representatives of Columbia, Princeton, Rutgers and Yale Universities drew up the first rules for intercollegiate football.

In 1898, the American flag was raised in Puerto Rico shortly before Spain formally relinquished control of the island to the United States.

In 1944, Soviet troops invaded Czechoslovakia during World War II.

In 1962, 30 years ago, Dr. James D. Watson of the United States, and Dr. Francis Crick and Dr. Maurice Wilkins of Britain, were named winners of the Nobel Prize for Medicine and Physiology for their work in determining the double-helix molecular structure of DNA (deoxyribonucleic acid).

In 1989, after 18 years in power, Erich Honecker was ousted as leader of East Germany by the Central Committee of the Communist Party.

OCT 18 1992

Ex-Rankin QB leads McMurry

Associated Press

ABILENE, Texas — Anthony Robinson and Kirk Kennedy, alternating at quarterback, threw two touchdown passes apiece, leading McMurry University past Sul Ross State, 35-21, Saturday night.

Robinson ran for another touchdown as McMurry avenged an early-season 32-14 loss to Sul Ross.

Richard Kretz scored on a 1-yard run, threw a 23-yard touchdown pass to Artist Covington and threw a 9-yard touchdown pass to Rodney Hall as Sul Ross took a 21-13 lead late in the second quarter.

Hardin-Simmons 24
Tarleton St. 14

ABILENE, Texas — Quarterback Tom Enloe threw for two touchdowns and ran for another, leading Hardin-Simmons past Tarleton State.

The game matched two ranked NAIA Division II teams, No. 15 Tarleton (5-2) and No. 22 Hardin-Simmons (5-1).

Two of H-SU's touchdowns came after fumbles by Tarleton quarterback Jimmie Hering deep in his own territory.

North Texas 21,
Stephen F. Austin 11

NACOGDOCHES, Texas — Mitch Maher threw three touchdowns as North Texas beat Stephen F. Austin.

North Texas (2-4) improved to 2-1 in the Southland Conference, dropping Stephen F. Austin to 2-4 and 0-2.

Alcorn State 63,
Prairie View 0

PRAIRIE VIEW, Texas — Steve McNair threw for 370 yards and four touchdowns as Alcorn State beat Prairie View. It was the Panthers' 19th straight loss.

McNair completed 19 of 38 passes as Alcorn (4-2, 4-0 in the Southwestern Athletic Conference) spoiled homecoming for Prairie View (0-6, 0-3).

McNair hit Marcus Hinton on

Texas Colleges

a 45-yard pass play to give the Braves a 7-0 lead late in the first quarter. Alcorn scored four more touchdowns in the second quarter, including a 52-yard run by McNair and a TD pass to Aaron Thompson.

NE Louisiana 38,
Sam Houston St. 10

MONROE, La. — Greg Robinson and Roosevelt Potts each ran for more than 100 yards and scored five touchdowns as Northeast Louisiana defeated Sam Houston State.

Northeast (5-2) is 4-0 in the Southland Conference and ranked eighth in Division I-AA. Sam Houston State is 3-2-1 and 0-1-1 in conference play.

Robinson ran 18 times for 139 yards and scored on runs of 4, 6, 34 yards.

East Texas State 57,
Iowa Wesleyan 7

COMMERCE, Texas — Junior running back Reginold Boyd made the most of his first college start, running for 94 yards and three touchdowns as East Texas State romped past Iowa Wesleyan College.

East Texas State, the No. 18 team in NCAA Division II, improved to 4-3. Iowa Wesleyan fell to 2-5.

SE Oklahoma State 38,
West Texas State 7

CANYON, Texas — A.J. Maranto threw three touchdowns Saturday as Southeastern Oklahoma State rolled over West Texas State 38-7.

Maranto threw touchdowns of 21 and 18 yards in the first quarter as Southeastern jumped on top 17-0 by halftime.

He added a 6-yard strike in the third quarter.

Southeastern, which out-

gained West Texas 490-163 in total offense, improved to 4-2. The Buffaloes fell to 1-5.

Carolinas upset ranked teams

Gamecocks down No. 15 Miss. St.; Tar Heels down No. 17 Cavs

Associated Press

Second 10

North Carolina 27,
No. 17 Virginia 7

COLUMBIA, S.C. — Freshman Steve Taneyhill threw for 183 yards and two touchdowns as previously winless South Carolina put aside its internal turmoil and upset No. 15 Mississippi State, 21-6.

The Gamecocks, 15-point underdogs and the only winless team in the Southeastern Conference, had voted during a team meeting Monday to ask coach Sparky Woods to resign. They returned to practice on Tuesday and Taneyhill was named Thursday to start his first game.

After the win, Woods, Taneyhill and the rest of the team were cheered loudly as they left the field with their first win in 10 games, the longest current losing streak in Division I-A.

Taneyhill completed seven of 14 passes, his first 35-yarder to wide receiver Toby Cates and his second a 10-yard score that put the Gamecocks (1-5 overall, 1-4 SEC) ahead to stay.

After scoring on their first drive, South Carolina stopped Mississippi State (4-2, 2-2) and began what amounted to the winning drive at the Gamecocks 41.

Five plays later, Brandon Bennett circled left end for South Carolina's second touchdown. A 2-point conversion pass from Taneyhill to Cates made it 14-0.

That margin held until the first Mississippi State drive of the second half, a 75-yard effort that ended on a 15-yard pass from Greg Plump to Olanda Truitt. Truitt was open in the right corner of the end zone after Gamecocks cornerback Frank Adams fell near the goal line.

Mississippi St. 0 0 0 0-6
S. Carolina 14 0 7 0-21
SC-Penny 10 pass from Taneyhill (kick blocked)
SC-Bennett 3 run (Cates pass from Taneyhill)
MS-Truitt 15 pass from Plump (kick blocked)
SC-Chaney 43 pass from Taneyhill (Simpson kick)

First downs 18 28
Rushes-yards 39-96 58-322
Passing 220 183
Return Yards 8 0
Comp-Att-Int 16-30-1 7-14-1
Fumbles-Lost 6-46 2-36
Penalties-Yards 1-0 2-1
Individual Statistics

RUSHING—Mississippi St., Roberts 6-36, Davis 6-38, Prince 5-22, Plump 13-21, S. Carolina, Bennett 20-120, DeBoer 19-107, Wilburn 10-50, Chaney 3-36.
PASSING—Mississippi St., Jordan 7-11-0-72, Plump 9-19-1-48, S. Carolina, Taneyhill 7-14-1-153.
RECEIVING—Mississippi St., Harris 6-127, Truitt 4-59, Roberts 2-10, Davis 1-14, Prince 1-10, S. Carolina, Foster 2-52, Chaney 1-43, Cates 1-35, Reddick 1-29, Campbell 1-14, Penny 1-10.

CHAPEL HILL, N.C. — Natrone Means rushed for 216 yards as North Carolina pulled off the biggest upset of the Mack Brown coaching era, stifling No. 17 Virginia's high-powered offense.

It was North Carolina's first victory in 10 years against a ranked team, going back to a 26-10 defeat of Texas in the 1982 Sun Bowl. The Tar Heels (5-2, 2-2 Atlantic Coast Conference) are now 11-0 when Means rushes for 100 yards. The Tar Heels broke a five-game losing streak against the Cavaliers, who were held to 263 yards, 200 below their average.

The 216-yard performance by Means, who carried 31 times, was the 11th-best in school history and 40 short of his career high of 256 against Duke in 1990.

Virginia (5-2, 4-2) played without ACC rushing leader Terry Kirby, who fractured his shoulder blade last week.

The Cavaliers, second in the nation in scoring at 41.7 points per game and 11th in total offense at 461.5 yards, scored on their first possession.

Virginia 7 0 0 0-7
North Carolina 3 14 10 0-27
Vir-Steale 2 pass from Goodman (Dusted kick)
Nor-FG Pignetti 23
Nor-Holliday 37 pass from Stanick (Pignetti kick)
Nor-Jordan 17 run (Pignetti kick)
Nor-Marshall 7 run (Pignetti kick)
Nor-FG Pignetti 24

First downs 12 14
Rushes-yards 35-161 64-351
Passing 102 105
Return Yards 0 55
Comp-Att-Int 11-25-2 7-16-0
Fumbles-Lost 7-39 6-37
Penalties-Yards 6-43 10-83

RUSHING—Virginia, J. Washington 20-107, Goodman 12-45, North Carolina, Means 31-216, Jordan 11-37, Stanick 9-30.
PASSING—Virginia, Goodman 11-25-2-102, North Carolina, Stanick 4-9-0-77, Thomas 3-7-0-28.
RECEIVING—Virginia, Steele 5-25, Way 2-7, Davis 1-45, North Carolina, Felton 3-37, Brooks 2-19, Holliday 1-37.

No. 14 Syracuse 20, No. 24 W. Virginia 17

MORGANTOWN, W. Va. — Marvin Graves threw a 17-yard touchdown pass to Chris Gedney with 51 seconds left and No. 14 Syracuse beat No. 24 West Virginia in a game marred by a bench-clearing brawl in the final minutes.

Gedney beat West Virginia backup defensive back John Harper on the winning play, stretching sideways to grab the pass. Harper was in the game to replace Mike Collins, one of three players for West Virginia (3-1-2) ejected after a fight erupted earlier in the drive.

Syracuse (5-1) had the ball on its own 18 with 3:39 left and trailing 17-14 when Graves optioned right. He was slammed out of bounds by West Virginia defensive back Tommy Orr on a hit that officials deemed legal.

Graves jumped to his feet and threw the ball into the back of Orr's neck, sparking a melee that lasted more than a minute and prompted five fouls.

Syracuse 0 3 7 10-20
West Virginia 0 10 0 7-17
Syr-Gedney 1 run (Vanderjagt kick)
Syr-FG Blaup 32
WV-Murrell 1 run (Blaup kick)
Syr-FG Blaup 22
WV-Jones 4 run (Vanderjagt kick)
Syr-Gedney 17 pass from Graves (Blaup kick)

First downs 27 13
Rushes-yards 64-218 30-115
Passing 245 137
Return Yards 82 0
Comp-Att-Int 16-28-0 10-17-2
Fumbles-Lost 3-32 5-40
Penalties-Yards 1-0 2-0
Individual Statistics

RUSHING—Syracuse, Walker 22-86, Richardson 4-37, Graves 19-30, Wooten 3-8, Lee 2-7, Picouli 2-4, Imaell 2-0, West Virginia, Murrell 18-84, Woodard 4-13, Jones 2-10, Jett 1-3, Kelchner 1-0, Studstill 4-0.
PASSING—Syracuse, Graves 16-28-0-245, West Virginia, Kelchner 5-9-1-66, Studstill 5-9-1-66.
RECEIVING—Syracuse, Gedney 6-103, Imaell 6-76, Walker 2-23, Hill 1-20, Ferrell 1-18, West Virginia, Woodard 3-26, Murrell 2-44, Kearney 1-13, Jones 1-5, Jett 1-21, Johnson 1-7, Hill 1-21.

No. 18 USC 27, Cal 24
LOS ANGELES — Estrus Crayton scored twice on short runs in the final 5:45 as 18th-ranked Southern Cal took advantage of Cal turnovers to beat the Golden Bears.

The Trojans (3-2-1, 2-1 Pacific-10) converted two late Cal fumbles into 15 points as USC overcame a 24-13 deficit and also avenged a 52-30 embarrassment at Berkeley last year.

Cal now is 3-3 overall, 1-2 in conference play. After the Bears' Marty Holly fumbled and the Trojans' Jeff Kopp recovered at the Cal 33, Crayton scored from the 2. Redshirt freshman Kyle Wachholtz, filling in for the injured Rob Johnson, then threw to Yonnie Jackson for a 2-point conversion that

pulled Southern Cal within 24-21 with 5:45 remaining.

California 3 7 14 0-24
Southern Cal 0 6 7 14-27
Cal-FG Brien 43
Cal-Dawkins 12 pass from Barr (Brien kick)
USC-FG Ford 27
USC-Santa 8 pass from Johnson (Ford kick)
Cal-Dawkins 20 pass from Barr (Brien kick)
Cal-Dawkins 12 pass from Barr (Brien kick)
USC-Crayton 2 run (Jackson pass from Wachholtz)
USC-Crayton 1 run (kick failed)

First downs 16 16
Rushes-yards 45-131 44-79
Passing 154 194
Return Yards 6 19
Comp-Att-Int 11-20-1 16-30-0
Fumbles-Lost 2-44 6-38
Penalties-Yards 8-75 9-74

RUSHING—California, Chapman 29-98, Zomalt 6-62, Holly 2-3, Klein 1-minus 8, Barr 7-minus 22, Southern Cal, McFadden 13-54, Crayton 21-47, Wachholtz 3-minus 2, Conway 1-minus 2, Perry 1-minus 7, Johnson 5-minus 11.
PASSING—California, Barr 11-20-1-154, Southern Cal, Johnson 11-22-0-134, Perry 2-4-0-37, Wachholtz 3-4-0-23.
RECEIVING—California, Dawkins 7-93, Zomalt 2-6, Caldwell 1-46, Stafford 1-9, Southern Cal, Conway 4-78, Morton 4-48, Hannah 3-37, Banta 2-12, McFadden 2-5, Wallace 1-13.

No. 19 Clemson 21, Duke 6
CLEMSON, S.C. — Quarterback Louis Solomon, making his first collegiate start, rushed for 104 yards and one touchdown and Clemson tied a school record with 10 sacks as the No. 19 Tigers downed Duke.

Solomon, a 5-foot-10, 168-pound redshirt freshman, scored on a 20-yard run on the Tigers' first possession, and guided Clemson to Ronald Williams' 10-yard clinching TD with 8:09 left in the game.

Solomon was carried off the field on a cart after apparently injuring his right knee when he was sacked with 4:34 left in the fourth period. It was not immediately known how serious the injury was. Clemson held Duke to just two field goals and sacked Spence Fischer 10 times for 56 yards.

Duke 3 3 0 0-6
Clemson 14 0 0 7-21
Clem-Solomon 20 run (Welch kick)
Clem-Blount 38 run (Welch kick)
Duke-FG Gardner 25
Duke-FG Gardner 46
Clem-Williams 10 run (Welch kick)

First downs 22 12
Rushes-yards 41-125 48-241
Passing 163 37
Return Yards 85 39
Comp-Att-Int 14-27-1 4-6-0
Fumbles-Lost 5-41 10-43
Penalties-Yards 3-31 6-53

RUSHING—Duke, Cuthbert 15-86, Baldwin 6-50, Prince 1-11, Clemson, Solomon 16-104, Blount 3-38, Williams 10-30.
PASSING—Duke, Fischer 12-23-1-124, Prince 2-4-0-39, Clemson, Solomon 3-4-0-23, Moncrief 1-2-0-14.
RECEIVING—Duke, Cuthbert 4-23, Breedlove 3-51, Clemson, Smith 2-15, Thomas 1-14.

O'Meara, Schulz share lead at Disney Classic

LAKE BUENA VISTA, Fla. (AP) — Defending champion Mark O'Meara and Ted Schulz each shot 64s Saturday and were tied for the lead through three rounds of the Disney Golf Classic.

O'Meara, who took the event last year with a 21-under 267, and Schulz were at 196, 20 under par, after 54 holes and were a shot in front of Frank Conner and second-round co-leader J.P. Hayes.

O'Meara had been a stroke ahead of Schulz, but faltered by making bogey on the final hole. "I would've liked to have had the lead alone," said O'Meara, who had an eagle and seven birdies during his round. "I'm doing everything pretty good. I had a lot of 2-footers for birdies."

Hayes, a rookie, and Conner, an 18-year veteran, are both seeking their first pro victories. Conner also had a 64, while Hayes got to 197 with his second straight 66.

Payne Stewart, tied with Hayes through two rounds, was at 199 after shooting a 67.

Conner said he saw no advantage to being second, especially considering who was first.

"It's amazing what these guys are shooting. I have a 64-68-65 and I'm one behind?"

"I don't think you ever have an advantage chasing two guys like that," said Conner, who admitted to dreaming of the \$180,000 first prize.

"It would get me back to broke," he said.

"I knew I needed a good round," said Schulz, winless this season. "They go right by you if you don't play well."

Schulz, playing in his 34th tournament this year, said he'd been disappointed in his 1992 performance but has been improving in recent weeks.

"I can't see any point in taking any weeks off when I need to make a living," he said.

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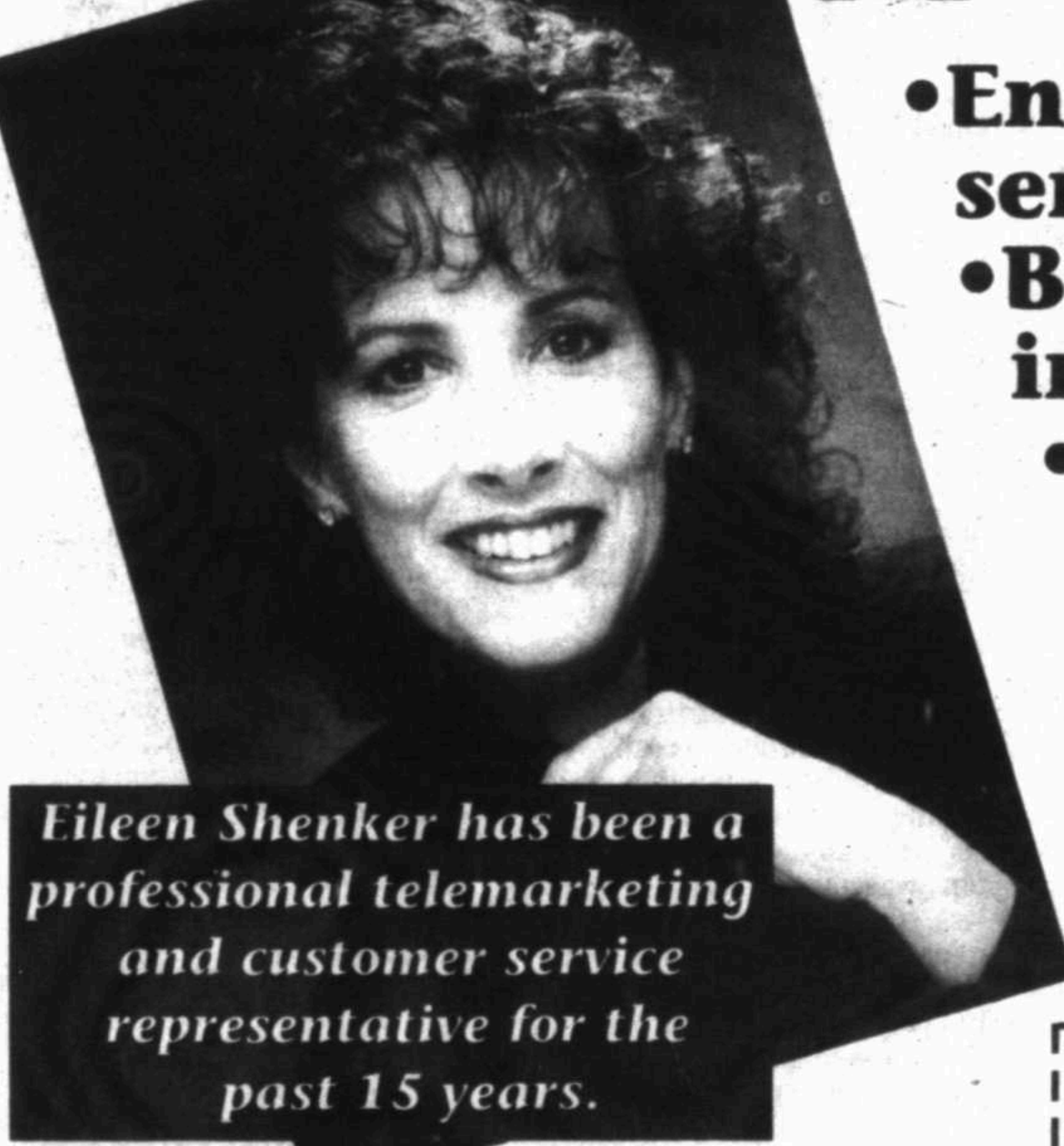
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Section C
Midland Re
Sunday, Oc

PD

EDITOR'S NOTE: This is who have been affected, pain, now under way.

By Lana Cum

At the age of pillhead who also downward spiral the bottom. An Program was the climbing out of

"My dad was would be out dr I'd slip a beer whose name has That started wh

Then came his parties with his downers and up drew was hooked pot was real con campus lunch he drink some bee school. The girls and they'd sell

"By the time I that happened, school and at ho 1980s. "I was usi was feeling bec might have a pr

Andrew said dysfunctional fa a lot and I had p made me forget

Two w help p with c

By Katherine

Staff writer

Getting over t one is never ea spouse.

However, two not only recov losses, but turn tragedies int triumphs.

Barbara Jowe Schwisow are the owners of Life sulting firm th seminars and p facing tough c lives.

The firm's fl Women in Trans making women and able to m changes — an id out the death of first husband an Jowell's 27-year

"If someone h was 23 that I wou 50, I would have said Ms. Jowell. time when I kne be change."

That time cam when, just three daughters' doub filed for divorc band of 27 year that it took for come final, Ms. she had more al survive than sh had.

"I had been w final months of a lady in Dallas veloping consu "That was the done since I was school. But, of co for divorce, I kn to work."

She credits h teering couple ing job for prep fund-raising jo land County Ju

GARY OT
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PDAP helps ex-user realize his dreams

EDITOR'S NOTE: This is the fourth in a series of articles on local citizens who have been affected by the United Way of Midland. This year's campaign, now under way, is attempting to raise \$2,755,000 for 17 agencies.

By Lana Cunningham

At the age of 17, Andrew was an alcoholic and a pillhead who also smoked pot. He was at the top of a downward spiral that would eventually take him to the bottom. And when he hit, Palmer Drug Abuse Program was there to pick him up and help him start climbing out of his pit.

"My dad was an alcoholic and he and his friends would be out drinking beer in the yard on weekends. I'd slip a beer here and there," recalled Andrew, whose name has been changed to protect his identity. That started when he was 15.

Then came high school and the weekend drinking parties with his friends. "I knew someone who took downers and uppers" and it wasn't long before Andrew was hooked on pills. "Popping pills and smoking pot was real common at my high school. We had off-campus lunch hour and we'd go to a friend's house, drink some beer and pop some pills and go back to school. The girls took these diet pills, which is speed, and they'd sell them," he added.

"By the time I was 17 I was abusing every day. When that happened, I was having a lot of problems in school and at home," he wrote of his life in the early 1980s. "I was using drugs to forget the pain and anger I was feeling because it made me feel good. I realized I might have a problem, but I didn't want to admit it."

Andrew said his pain and anger came out of his dysfunctional family. "My dad and I would butt heads" a lot and I had problems at school. The pills and drugs made me forget the home front."

Final report luncheon to meet Thursday

Staff report

Marshal Jess Parrish is calling one more town meeting for 11:30 a.m. Thursday at Centennial Plaza. This will be the final report luncheon for United Way of Midland before the Showdown comes on Nov. 10.

Catering the Thursday report luncheon will be Terry's Coffee Shop. The event is free and the public is invited.

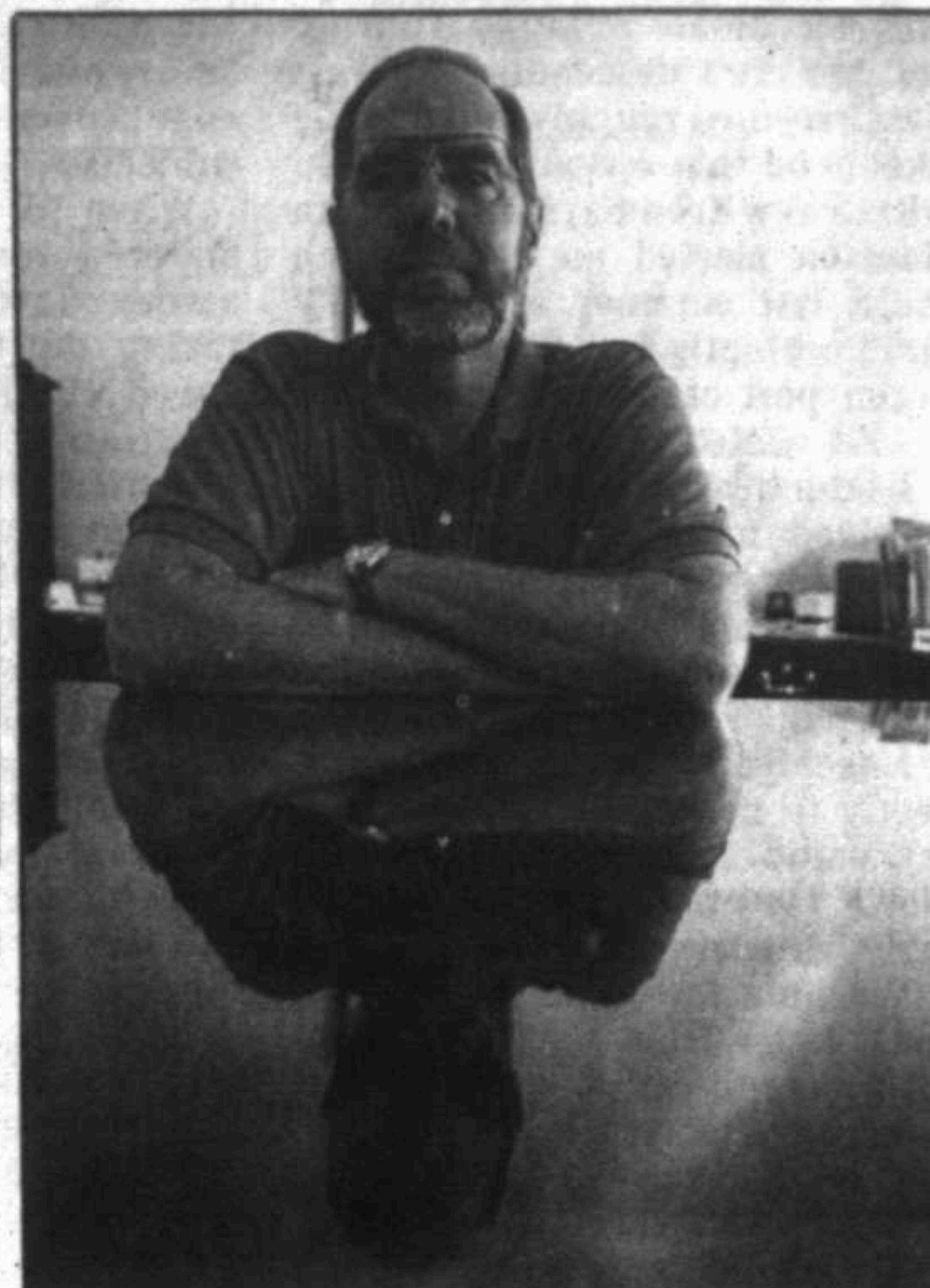
Marshal Jess and his deputies and posse are attempting to raise \$2,755,000 that will be distributed to 17 agencies who help the Hopeless Gang every

day. That gang consists of Hunger, Abuse, Illiteracy, Drugs and Homelessness. At the last report luncheon, the volunteers announced they had raised \$1,241,494, or 45.1 percent, of the goal.

A challenge has been issued between Midland Independent School District and Ector County Independent School District to see which can raise the most money for their respective United Way.

The theme for this year's campaign is "How the West is Won ... The United Way."

For additional information, call the United Way office at 682-4358.



Bob Savage is the executive director of the Palmer Drug Abuse Program, PDAP, a United Way-funded agency that has helped Andrew and many others rid their lives of alcohol and other drugs.

Two women help people with change

By Katherine Poteet

Staff writer

Getting over the loss of a loved one is never easy, particularly a spouse.

However, two Midland women not only recovered from their losses, but turned their personal tragedies into professional triumphs.

Barbara Jowell and Donnette Schwisow are the co-founders and owners of Life Strategies, a consulting firm that specializes in seminars and programs for people facing tough changes in their lives.

The firm's flagship seminar, Women in Transition, is aimed at making women more independent and able to make it through changes — an idea that was born out of the death of Mrs. Schwisow's first husband and the end of Ms. Jowell's 27-year marriage.

"If someone had told me when I was 23 that I would be divorcing at 50, I would have laughed at them," said Ms. Jowell. "But, there came a time when I knew there needed to be change."

That time came in October 1987, when, just three months after her daughters' double wedding, she filed for divorce from her husband of 27 years. During the year that it took for the divorce to become final, Ms. Jowell learned she had more ability to cope and survive than she ever knew she had.

"I had been working during the final months of my marriage with a lady in Dallas, marketing a developing consultant," she said. "That was the first work I had done since I was 23, when I taught school. But, of course, when I filed for divorce, I knew I would have to work."

She credits her years of volunteering coupled with her marketing job for preparing her to take a fund-raising job for former Midland County Judge Barbara Cul-



Barbara Jowell, left, and Donnette Schwisow are co-founders and owners of Life Strategies, a consulting firm specializing in

seminars and workshops for people facing life changes.

ver, who was running for the Texas Supreme Court.

"I thought 'Good heavenly days, I can do this,' and so I took up fundraising for Barbara," Ms.

Jowell said.

But, the idea for a program helping others came not from Ms. Jowell, but from her attorney, who suggested that she make a

tape he could give to others outlining how to organize items before going to an attorney.

Please see **CHANGE/2C**

'I'll take nerves and excitement for \$1,000, Alex'

EDITOR'S NOTE: Assistant City Editor Allen Howland will be a contestant on "Jeopardy!", the nationally syndicated television game show, later this year.

By Allen E. Howland
Assistant city editor

Ever since I was a grade schooler at home sick from school, curled up on the couch with Art Fleming, I have been fascinated by the television game show "Jeopardy!" It was always the highlight of an already-exciting day away from the classroom.

Blessed with a memory that traps pieces of useless information like flypaper, I would sit transfixed by the answer-and-question format, in alternating states of excitement and awe. Excitement when I could blurt out an answer before the trio of studio contestants and awe that those same contestants not only knew about geography and history, but about opera, Shakespeare and sports as well.

But at the heart of my attraction to the show — like for thousands of others — lay the wild imagination of what it would be like to have my shot at the big board and to say those immortal words "I'll take Potpourri for \$100, Art."

When NBC pulled the plug on the show in the early '70s, my heart sank a little, knowing that like being an astronaut or president, there was one more dream that was forever out of reach. But in the world of television, forever isn't always that long a time.

In 1984, thanks to television syndication — and encouraged by the success of the

night-time version of Wheel of Fortune — Merv Griffin Enterprises jump-started the Cadillac of game shows, this time with Alex Trebek at the wheel.



Howland
Knowing that the show was back in production was enough to rekindle my dream of stepping up to the podium and answering in the form of a question.

I was always puzzled by the mysterious message that Johnny Gilbert would give at the end of the show, "If you are planning a extended visit to the Southern California area and would like to be a contestant ..."

I therefore assumed that qualifying as a contestant must be an arduous, time-consuming process stretched over several days. So, my dream got pushed to a back shelf, until the time I was in Los Angeles with a few free days on my hands.

The "official" Jeopardy! book, licensed by the show's producers that I received as a gift from a former co-worker a couple of years ago, bolstered my quiz-show aspirations only a bit. While it outlined the simpler-than-expected pro-

Please see **GAME/2C**

GARY OTT

Candidates in next debate should scream ... with dignity

With 17 days to go before the election, like many Americans I still find myself securely locked in the "undecided" category.

Oh, I've made up my mind on which candidate to support, I just can't decide which debate format I favor.

Decisions, decisions. They make a person's head spin.

So far, there have been three distinctively different approaches.

Debate No. 1 was for the most part low-key, though the three presidential candidates did take the opportunity to sling a few arrows at one another, mainly over whether or not Bill Clinton's visit to Moscow 23 years ago should be a legitimate campaign issue. Voices rose on occasion, but, overall, an impartial observer would have to conclude the three men were well-behaved. In basketball terms, it was a case of "no harm, no foul."

Debate No. 2, on the other hand, the one involving the trio of vice-presidential aspirants, was, to put it mildly, "down and dirty." There was an abun-



Ott

dance of name-calling and finger-pointing. At times the viewer couldn't follow what was being said because everyone was screaming at the same time.

Finally, there was Debate No. 3, the one held Thursday night, and it, like the other two, had a style all its own. This time the three presidential candidates were so nice to one another I almost expected them to wrap up the evening's festivities by holding hands and swaying to an old gospel song. There was no mud-slinging whatsoever, and the closest thing to a fight was when one of the men would smile at the audience and say, "I agree with what my worthy opponent just said, but, on the other hand, I think we need to ..." And then he would go into his own song-and-dance about creating new jobs.

Some viewers called it boring. Others said it showed class and maturity.

Now there is one more. Come Monday night, the final head-to-head confrontation between the three men who would be president will unfold before our eyes. It is do-or-die time. Millions of Americans will be glued to their television sets, listening intently to the words being spewed forth.

But just as importantly, those same viewers will be watching the actions of the candidates, determining how they look and behave as they answer the various questions.

Thus, the importance of the debate format. Will they scream and make wild accusations against their opponents? Or will they act reserved and dignified in an attempt to come across as — and I quote — "presidential?"

Only the debate format knows for sure?

As for me, I can't decide which direction I want it to go. For years I took great pride in being one of the most obnoxious arguers of our times. My theory was simple: talk real loud, use lots of meaningless facts and figures and wave my arms about like a windmill. When someone would disagree with my position, I would smirk at them in a condescending way and say, "Well, you're obviously a mental midget who doesn't have a clue as to what's going on in the real world." And then I would immediately leap forth with another barrage of meaningless facts and figures, many of which I would invent on the spot.

But as the years passed, so I did my approach to arguing. I mellowed. No longer did I consider it nec-

essary to speak in a voice loud enough to be heard in Europe. I rarely pointed fingers and made every effort to keep my arm-waving gestures to a minimum. Instead, I would use an abundance of big fancy words in an attempt to showcase my vast knowledge of the subject being debated.

I thought it made me appear to be an intellectual.

"No," a friend recently informed me. "It makes you seem like a pseudo-intellectual. There's a big difference."

Where does this leave us? Which extreme should the candidates pursue? Should they be feisty or reserved? Mean or meek?

I'm glad you asked. In politics, as in life, moderation is the key to success. Find the middle ground and stay the course. Don't sway too far in any one direction.

So on Monday night this is my advice to all three presidential hopefuls: Scream a lot at one another. But do it in a very dignified manner.

Gary Ott is managing editor of the Reporter-Telegram.

GAME: City editor to go on Jeopardy!

(From 1C)

cess for getting on the show, it reinforced my hesitance to move ahead by discouraging aspiring contestants from flying to L.A. just to tryout for the show.

Instead, it tells prospective questioners to wait for a contestant search coordinated by a station in their area.

Well, the chances of the contestant coordinate Suzanne Thurber and her crew descending on West Texas seemed roughly equal to the likelihood that I would be in L.A. with a few free days. A friend in Houston alerted me to a search there last summer at KHOU-TV and I promptly mailed off a couple dozen post cards and waited.

And waited.

I later learned that the station received more than 50,000 postcards for the 500 test slots. But having taken that first, tiny step, my attitude toward the show changed.

I decided to send a postcard directly to the studio and make up my mind later whether it was worth the price of going to Southern California.

Within a few days, I received a form letter from Ms. Thurber inviting me to call to set up an appointment to take the test.

The genie was out of the bottle at that point. There was no turning back. I was gonna take my shot. The first available test date was a little over three weeks away.

I brushed up my Shakespeare and reviewed the U.S. Presidents, but largely accepted the argument that — especially for the test — either you know it or you don't.

In seemingly no time, I was standing outside the gate of the Hollywood Studios complex with 50 or so other prospective contestants. I sat reading the newspaper and eavesdropped up and down the line.

From this exercise I determined that although there were a few game-show "pros" from the L.A. area who were trying the test,

most of the crowd was like me, interested only in Jeopardy!

Trying my best to remain unimpaired, I caught snippets of conversation, laced with things like "when I was finishing my doctoral thesis," "the great thing about having a master's in microbiology," and "during our last production of La Traviata."

I steeled myself in the belief that all these competitors' acumen was limited to their field of expertise, while my scattershot knowledge covered a wider range of subjects — Jeopardy's hallmark.

When we got the word, we meandered toward the soundstage audience area where we would be taking the test — the same hallowed studio where Alex holds court.

Contestant coordinator Kelley Carpenter explained the drill. On the sheets of paper in front of us, we were to fill in the 50 spaces with answers in the form of answers. The questions, read by Alex on videotape, played on the two TV monitors on the front edge of the stage.

Each question was preceded by a category heading — with the range that the show is famous for — State Capitals, Russian Literature, Business and Industry, Shakespeare, the Bible.

We had 10 seconds to write each answer. Rather than increasing in difficulty as you move down a category as happens in playing the game, the test questions — only one per topic — are the equivalent of \$800 to \$1,000 questions in the Double Jeopardy! round — in other words, tough.

Kelley explained that it is better that contestants be too smart than not smart enough come game time.

"Being too smart will NOT be a problem," I thought to myself.

The first half-dozen questions reinforced that thought. They covered some of my weakest areas — Opera, Mythology, The Bible. I blindly guessed on a couple and took semi-educated guesses on a

couple more. I honestly couldn't think of an expatriate American poetess other than Gertrude Stein.

But the pace of the test left no time to worry about my shattered confidence.

Then we moved into areas I was more comfortable with — geography, movies, and categories about words. I settled into the rhythm. I took it as an omen that the answer to the Publishing question was "the Hearst Corporation."

In about 17 minutes, it was over. Kelley and the other contestant coordinator, Glenn Kagan, excused themselves to go grade our tests.

They were quick. In a few minutes they came back to tell us that seven people passed the first Jeopardy! hurdle. That was about average for a group our size, they said, without revealing what comprises a passing score.

They read off the names of those who passed. Mine came fourth on the list, so I hadn't panicked yet.

The other would-be contestants filed quietly out of the studio, maybe in search of Potent Potables.

Next came an abbreviated mock round of the game, played with flash cards and bells like you find on the front desk of an old-fashioned hotel.

The coordinators said they were evaluating not only our knowledge, but also our voice projection, ability to keep the game moving from answer to answer, waiting until Kelly was done reading to ring in and the ever-important responding in the form of a question.

Except for ringing in too early on one movie question, things went smoothly enough during my time on the floor. At the end of the round, Glenn and Kelly again put their heads together and decided that four of us had demonstrated the requisite mix of poise, enthusiasm and game-playing skill.

Then came mug shots and a

chance to tell a little about ourselves, probably the longest 90 seconds in my life. The coordinators made some additional notations on our bio sheets.

The show uses roughly 425 contestants in the course of the season, Kelly said. "Some of you may fall through the cracks and not hear at all," she cautioned. But most of us could expect a call sometime during the next nine months, but there are no guarantees. Her closing comments were a sugar-coated "don't call us, we'll call you," mixed with encouragement to be patient.

A minimum of four weeks' advance notice is extended to out-of-state contestants, to give time to make work and travel plans. Advance-purchase airline tickets are an important consideration because contestants are responsible for all the expenses associated with the trip.

I was bolstered by an observation from two former Tournament of Champions winners in their "unofficial" Secrets of the Jeopardy! Champions book. They wrote that contestants from outside the Southern California area seem to get called back quicker, to give the folks back home a better chance of having a local rooting interest.

Taping for the new season was not set to begin until late August, they said, so July would be the earliest they might call.

As July gave way to August and September, Kelly's advice to be patient and hopeful was beginning to pale. Then it happened — THE CALL.

I'll be heading back to L.A. for two days of taping early next month, with the shows likely to be aired around Christmastime.

One condition of appearing on the show is that contestants not divulge the outcome of their games before the programs air, so I'm looking toward another period of imposed patience, but I'll keep you posted.

DEATHS

Marciana Lopez

LAMESA — Rosary for Marciana Ramirez Lopez, 79, of Lamesa will be recited at 8 p.m. today at the Branon Funeral Home Chapel. Funeral Mass will be celebrated at 2 p.m. Monday at St. Margaret Mary's Catholic Church with the Rev. Jim McCartney officiating. Burial will follow in Lamesa Memorial Park under the direction of Branon Funeral Home.

Mrs. Lopez died Friday at a Lubbock hospital following a lengthy illness.

She was born Oct. 26, 1912, in Taylor. She married Isabel R. Lopez on Aug. 29, 1929, in Karnes City.

She was preceded in death by her husband in 1981 and by one son.

Survivors include five sons, Johnny Lopez and Rudy Lopez, both of Midland, Felipe Lopez of Abilene, Isabel Lopez Jr. of Big Spring and Fred Lopez of Monahans; six daughters, Pauline Lopez, Lucio Garcia, Dora Toscano and Gloria Garcia, all of Lamesa and Virginia Vasquez and Teresa Rodriguez, both of Monahans; 36 grandchildren and 22 great-grandchildren.

Randy Struck

ODESSA — Services for Randy Eugene Struck, 3-month-old son of Rodney and Stacy Struck of Odessa are set for 2 p.m. Monday at the Hubbard-Kelly Funeral Home Chapel with the Rev. Jim Fields officiating. Burial will follow in Sunset Memorial Garden under the direction of Hubbard-Kelly Funeral Home.

He died Thursday at a Fort Worth hospital.

He was born July 6 in Odessa. Other survivors include two brothers, Ry Struck and Rance Struck, both of Odessa; and his grandparents, Harold and Judy Struck and Bill and Kathy Ellis, all of Odessa, and Gene and Nancy Plunk of Midland.

Richard Green

BROWNWOOD — Graveside services for former Midlander Richard Allen Green, 54, of Whit-

ney were at 1 p.m. Saturday in Eastlawn Memorial Park under the direction of Davis-Morris Funeral Home.

Green died Thursday at a Temple hospital.

He was born Feb. 2, 1938, in Brownwood. He married Marilyn Kay Reeves in Midland on April 17, 1971.

A 16-year U.S. Navy veteran, he worked as an automobile salesman. He moved to Whitney from Midland 18 months ago. He was a Baptist.

Survivors include his wife, Marilyn Kay Green of Whitney; four daughters, Janie Cordell of Austin, Kay (Mrs. Ted) Woolridge of Lafayette, La., Sandy (Mrs. Gary) Higdon of Cedar Creek and Laura Cope of Odessa; three sisters, Wilma (Mrs. John) McKeel and Patsy Green, both of Lake Whitney and Teri (Mrs. James) Coker of Austin; and five grandchildren.

Melvin McGruder

Services for Melvin Patrick McGruder, 24, are set for 2:30 p.m. Monday at the Eastside Church of Christ with Dan Johnson officiating. Burial will follow in Fairview Cemetery under the direction of Grace Chapel Funeral Home.

McGruder died Wednesday in a shooting in San Angelo.

He was born Jan. 10, 1968, in Midland and attended Midland schools.

Survivors include his wife, Lula McGruder and four children, all of Midland; his parents, Billie Joe and Aubrey Small of Midland; three brothers, John McGruder, Ivy McGruder and Bobby McGruder, all of Midland; one sister, Shirley Jean McGruder; grandparents Jody and Will Garrett of Midland.

Pallbearers will be Paul Berrois, Sam Powell, Miller McGruder, Dalbert Harmon, John Lewis Jr., Chris McGruder and Curtis McGruder.

Immigration Act seminar to be held Wednesday

Staff report

ODESSA — "Immigration Reform," a free program co-sponsored by the Small Business Development Center of the University of Texas at the Permian Basin, meets at 7 p.m. Wednesday. The seminar will be held at the Center for Energy and Economic Diversification (CEED), located at the intersection of Highway 191 and FM 1788.

Presented by Thomas W. Meigh-

en, agent for the Midland/Odessa office of the U.S. Border Patrol, the seminar is designed to give employers an overview of the Immigration Act of 1990.

Other sponsors include Midland College, Odessa College, Howard College, the chambers of commerce for Midland, Odessa and Big Spring, and the Better Business Bureau.

For reservations, call the S.B.D.C. at 563-0400.

DREAM: Young man gets help from PDAP

(From 1C)

started to plan it," he wrote.

Not long afterward, he was arrested for burglary and arson of a building. He went to the office to sign a paper stating he was not involved "when something snapped. I said I can't keep lying." He talked to the officer, told his dad to go home and made out a confession.

His father, who had quit drinking several years earlier, talked to someone at the Salvation Army about getting help for his son. He was referred to Palmer Drug Abuse Program.

"A few days later, my dad said he had made an appointment for me with this counselor at PDAP. I drove to the building and sat out-

side in the car for 35 minutes. I couldn't go in. But this counselor saw me and came out to the car and brought me in. I stayed for an all-night movie night and a hot dog cookout."

Andrew began going to PDAP every day.

"What I found here was companionship of people my own age. They were rough; they didn't care what you said. I could be myself. They liked me for what I was."

They told me, "We love you no matter what has happened. We're not going to judge you here." It took a long time for that to sink in.

Andrew still had to serve his time in the state prison, but during those 10 months PDAP gave

him support. "They wrote me letters and kept in touch. That's why I came back. They also called my parents and gave them support. They were having problems dealing with me being in the pen."

While in prison, Andrew began seeing a counselor and going to AA meetings. He counts those 10 months as a learning time and he is thankful he had them. "If I hadn't gone to prison, I'd be dead by now." He also began to think about getting a college education and becoming a counselor.

When he returned to Midland, Andrew entered Midland College. A "D" student at high school graduation, he finished his last semester at MC with a 3.0 average and graduated with a degree in Drug

and Alcohol Counseling. He is planning to work toward bachelor's and master's degrees in social work.

For someone who had a habit of sabotaging himself, Andrew is pleased with his accomplishments. When he thinks back to his college graduation, a smile comes across his face. And his relationship with his parents "is at a peak. It's better than it ever has been. My mom was tickled to death when I graduated. Any my dad was happy, too. He just doesn't show much emotion."

And Andrew has a job that he thought would only happen in a dream. He now is a counselor at PDAP. "I've always wanted to give back to the program."

CHANGE: Women use experiences to help others

(From 1C)

"At first I said no," she said. "I mean, I didn't want to think about it anymore. Plus, who would want to listen to a divorced woman anyway?"

The idea was not brought up again until the sudden death of Mrs. Schwisow's first husband, Mac, in 1988.

"Mac had always had a problem with heart disease, having a bypass at 39 and another at 49," Mrs. Schwisow said. "It was six months after the second bypass that he died."

"I think we always knew in the back of our minds that I needed to be a little more self-sufficient," she continued. "He encouraged me. For instance, I had to buy my own car. I could have screamed at him, because he was an attorney and could have gotten a better deal. But, I needed to know how to do it."

Although her husband's death was unexpected, Mrs. Schwisow said learning about bank accounts and financial records eased the transition.

"All of us have hidden bank accounts, things that we learn and store up," she said. "Those are things that we can put to use, particularly during a major change in our life."

The two women became each other's support systems during that difficult year, and the idea of helping others in the same situation was broached again.

"I asked Donnette about putting together a program," Ms. Jowell said. "At first she said no."

"I didn't really see the significance of it until a little time had passed," Mrs. Schwisow said.

The company, Life Strategies, was not developed until the next year, 1989. Reaction to the first program, Women in Transition, not only caused it to expand the

audience it was aimed at, but it led to the second program, Strategies for Success with People.

"Women in Transition was, at first, aimed at women our age," said Mrs. Schwisow. "But, we found women bringing their daughters, saying 'I wish I had known this when I was younger.'"

"Plus, we were trying to get these women to communicate their need to be more self-sufficient," said Mrs. Jowell. "It suddenly occurred to us that they might not know how to do that. That's what the second program is really about — communicating well with others."

The two women have flown all over the nation with their message, with their next stop being New York in November. But, their fervor for the program stems from their strong belief that its message has worked in their lives.

"The fact that I worked, that I realized I could do it, that's what

got me out of bed some mornings," said Ms. Jowell. "We just want to tell that to others. To try to give women hope and encouragement that they can go on, no matter what life throws them."

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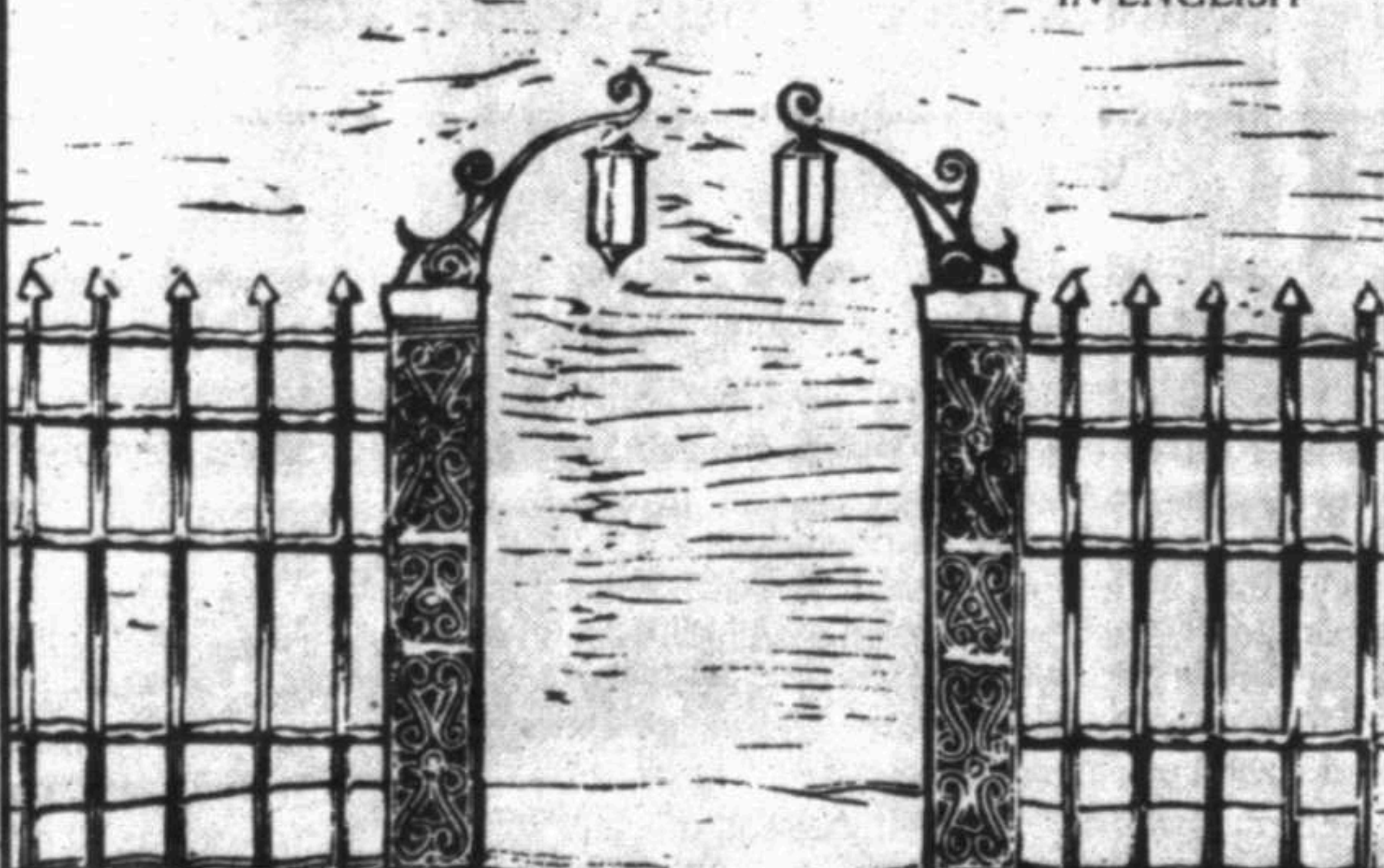
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Quayle visits Texas

TYLER (AP) — Vice President Dan Quayle, wearing jeans and cowboy boots, walked in the Tyler Rose Festival Parade on the first of several campaign stops in Texas Saturday.

In brief comments after the parade, Quayle admitted the Republican ticket trails Democrat Bill Clinton in Texas.

"Obviously we would like to be 15 percent ahead in Texas and Louisiana, and we are not... but we are going to win Texas," Quayle said. "He (Bush) is not a quitter. He's going to fight until the last vote is counted."

Quayle abandoned a visit to nearby Longview when plans for the space shuttle Atlantis to stop there were scuttled.

The shuttle, aboard a modified

jumbo jet, was expected to refuel in Longview on a cross-country trip to Palmdale, Calif., where it will be modified. But bad weather prevented Atlantis from taking off from Florida and NASA said the trip would be tried again Sunday.

Meanwhile, Quayle greeted thousands of people at the parade. Some held signs saying "This is D-Q Country."

He then flew to Fort Hood in central Texas and went to a softball field to take part in a "Pig Fest" festival at the community of Harker Heights.

While at the giant military reservation, Quayle criticized Clinton, saying it was fortunate President Bush was president during the Persian Gulf War.

Apartment fire kills young child

Staff report

ODESSA — A toddler died Saturday evening when his family's apartment caught fire, according to reports.

Seven units of the Odessa Fire Department were sent to the Springwood Apartments at 1201 Harless, at 7:29 p.m. Saturday, a fire official said.

The cause of the blaze was under investigation late Saturday and the name of the youngster had not been released by the fire department.

MC to sponsor TASP workshop

Staff report

For high school or college students worried about passing the mandatory TASP (Texas Academic Skills Program) examinations, there's help on the horizon. Midland College is sponsoring Cracking the TASP, a six-hour workshop designed to make taking the mandatory test easier. The workshop will be held on Saturday, Nov. 7, from 9 a.m.-3 p.m. Fee is \$30.

Leslie Cohen and Antonette Falco, instructors at Austin Community College, will present tips to maximizing scores, time allocation, sequence, and reduction of test anxiety. Cohen and Falco are co-authors of the book entitled "Cracking the TASP."

TASP is required of all college freshmen in Texas before completing 15 credit hours of courses. Many high school seniors take the exam prior to college entrance. Those who don't pass are required to enroll for remediation courses to bring skills up to college-level. Even after the remediation, successful completion of the TASP exam is required.

The next local TASP exam date is Saturday, Nov. 14.

Registration for the workshop is being handled in the Continuing Education Office, Administration Building. Enrollment is limited. Other information is available by calling 685-4518.

SJ Junior High recognizes achievement

Staff report

The teaching staff of San Jacinto Junior High School has implemented a program highlighting outstanding student achievement. Using the school's Mustang mascot, teachers will honor students as "Mustangs of the Month."

Mustangs for September are: Brandi Pierce, art; Sharon Smead, band; Elizabeth Boyd, choir; Anna Wimberly, life management; Brent Davis, industrial technology; Lauren Amick, Spanish; Brandon Schumann, computers; and Mindy Landrum, speech.

Seventh graders named Mustangs in their courses are Brian Cain, English; Elizabeth Diaz, science; Lauren Brantley, math; Luke Cirkovic, social studies; Billy Vallie, study skills; Jorge Villa, reading; and David Andrade and Chanthina Blake, physical education.

Eighth grade Mustangs are Monica Meadows, English; Marcel Holland, science; Jessica Soto, math; Ben Ozuna, social studies; Laura Hamblin, study skills; Carla Pool, reading; and Nick Masten and Elvia Hernandez, physical education.

TEEN CHALLENGE OF THE PERMIAN BASIN 4th Annual Fundraising Banquet



Guest Speaker,
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TIME: Thursday, November 5, 1992 ★ 6:30 pm Reception & Serving Line

7:00 pm (sharp) - Banquet

PLACE: Green Tree Country Club, 4900 Green Tree Blvd., Midland, TX.

TICKETS: \$13.50

CONTACT: Jimmy Bayes, Reservation Co-ordinator

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American Heart Association
American Diabetes Association

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11:00 Barber Shop Quartet
12:00 Hispanic Heritage
1:00 Midland Kitchen Symphony
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Juice the Moose



For more information contact:
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Odessa, Texas 79765
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11:00-2:00 Cookout
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October 5, 1992

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AN OPEN LETTER TO THE TAXPAYERS OF MIDLAND COUNTY

HEY, WHAT'S THE DEAL? OR BETTER YET, WHAT'S THE "PLAN"??

Carol Baker, the appointed incumbent candidate for County Treasurer, states she has been "active treasurer since May, 1989". Yet, the voters of Midland County re-elected Dee Thompson to that office in November, 1990. WHAT'S THE DEAL?

Why did taxpayers of Midland County have to pay an elected AND an "active" county treasurer for over three years? Where's the efficiency in that arrangement? If Mrs. Baker was the "active treasurer", shouldn't she be held accountable for the decision to have taxpayer's pay TWO county treasurers? Or was that just part of the "PLAN"?

Carol Baker was hand picked in January, 1989, as the "Chief Deputy Treasurer". Mrs. Baker was given that position over three existing employees in that office. That increased the number of employees in that office from four to five. Now Mrs. Baker claims she has "streamlined" her office expenses by 20%. Did she accomplish this "streamlining" by simply not replacing an employee that was never needed in the first place? Is that an honest, efficient way to run our county government. Or is it simply the result of a "PLAN" between Mrs. Baker, Mrs. Thompson and our County Commissioner's Court to "HAND SELECT" our County Treasurer, rather than let the voters of Midland County decide?

Mrs. Baker says we can't trust this job to "untried, untested, unproven hands." Boy, if that's not typical incumbent rhetoric. Mary Wilson is a professional. Mary has 20 years of solid accounting, bookkeeping and financial experience. Armed with your vote, Mary will be accountable only to the taxpayers of Midland County, not those who formulate the "PLANS".

LET'S STOP THIS NONSENSE. WE'VE HAD ENOUGH UNDER THE TABLE "PLANS".

VOTE FOR A HIGHLY TRAINED AND COMPETENT ALTERNATIVE TO THE "PLAN".

ELECT MARY WILSON -- MIDLAND COUNTY TREASURER

Pol. ad. paid for by the Mary Wilson for Treasurer Committee, Hill Glover, Treas.

LETTER FROM COLLEGE

Season tickets to Chaps games to go on sale Monday

By H.A. Tuck

Since the basketball season opens in less than three weeks, it's time for you to start thinking about the Chaps. First item should be purchase of season tickets, which go on sale Monday.

Cost of a reserved seat for 19 home games is just \$50. If you wish, you may purchase your tickets with a charge card. Just visit the Chap Center to see which seats you'd like, or call 685-4584.



Tuck

Action begins quickly with nine games in just three days as the Chaparral Classic is expanded to six teams this year. Midland is being joined by conference mates Odessa and South Plains, plus Alvin, Jacksonville, and Ranger. It all begins on Thursday, Nov. 5, when the highly-rated Chaps begin their 18th exciting season.

There are lots of exciting activities this week, so make note of them and then decide which you'd like to attend.

Session II of the fall College Classics begins this week, an interesting array of 13 classes designed especially for those at least 50 years of age. Classes are held in the afternoons, usually one or two hours, for four weeks. The cost to attend one or all 13 classes is just \$25, since the instructors are volunteers from the college faculty or the community.

For this session, you could choose from: Age Doesn't Make Any Difference, Annie's Holiday Entertaining, Country/Western Dance II, Economic Development through Midland College, Economic Fiscal Policies, Genealogy, Piano, Plumbing for Homeowners, Public Expression, How to Grow Roses in West Texas, Beginning WordPerfect, World History Continues II, and You and Your Money.

If you took a College Classics course in the fall, you may register simply by calling 685-4518. First-time College Classics students need to visit the Continuing Education office in the Administration Building.

A milestone for Midland College should be reached Monday when the first classes are taught at the Midland College South Campus.

Although the college's Business and Economic Development Center has been at the South Campus for about a month, renovations were necessary before classes could be taught.

Both GED (General Educational Development) and ESL (English as a Second Language) classes are being offered there this fall.

ESL classes will meet on Monday and Wednesday from 6:30-9 p.m. and the GED classes will meet Tuesday and Thursday from 6:30-9 p.m. The GED class is for those who wish individualized tutoring prior to taking any of the five GED tests, which lead to the high equivalency diploma. ESL classes are taught to groups wishing to learn how to read, write, and speak English.

GED also is available at Casa de Amigos, Bunche Elementary, West Elementary, and the Southeast Senior Citizens Center. ESL classes are taught at Casa de Amigos.

More information about these classes is available by calling 685-4566.

The monthly breakfast for owners and operators of small businesses takes place at 7:30 p.m. Tuesday in the Student Center's

Chaparral Hall. For just \$5, you'll receive breakfast and a chance to visit with purchasing agents of large firms, along with others seeking to make their businesses successful.

No reservations are necessary, but you may call 684-4100 for more information.

Regular monthly meeting of the College's Board of Trustees takes place Tuesday at 4 p.m. in the Board Room, Administration Building.

There are two sessions left on the fall's Small Business Seminar Series. The seminars are conducted on Tuesdays from 7:30 p.m. in Meeting Room A, Student Center. Cost is \$5, payable at the door. This week's session is Payroll Issues, while the final session next week will be on Income Tax Topics. Call 684-4100 if you'd like more information.

We were all ready to turn on the new message center last week, but some electronic gremlin intruded. The sign, located at the northwest edge of the campus, adjacent to Garfield, had been programmed in advance and needed only to have the telephone line hooked up

... or so we thought. After three days of trouble-shooting, one of the electronic components had to be returned to the factory.

We can report that a policy for the sign has been drafted, restricting use of the message center to college activities or events being held on campus.

If the gremlins didn't grab us again, the message center was due to be turned on the middle of last week.

Last week's debate, organized by the campus chapter of SIFE (Students In Free Enterprise) went well. The student club members had worked hard to organize the event, publicize it, and make it meaningful.

Just two weeks remain to view the annual Midland Arts Association's Fall Juried Show. It's in the McCormick Gallery, Allison Fine Arts Building. Admission is free and the building is open daily. Hours are: 1-5 p.m. Sunday, 8 a.m.-10 p.m. Monday through Thursday, 8 a.m.-5 p.m. Friday, and 9 a.m.-5 p.m. Saturday. You'll see a nice selection of paintings, watercolors, drawings, photographs, ceramics, and mixed media from some of the regional best artists,

both professional and amateur. The show closes Friday, Oct. 30.

Last weekend, several current and retired college personnel spent eight hours taking a Defensive Driving course. The course will improve your driving skills, your chances of surviving driving problems, and will reduce your insurance rates. Best of all, the old movies have been replaced with up-to-date videos. While eight hours is a long time to spend on one subject in one or two days, it can be extremely beneficial.

Midland College offers Defensive Driving either for two nights, four hours per session, or a single eight-hour stint on Saturday. The \$20 cost is most reasonable.

Classes which you might take this week include: Better Business Operations, Computer and You, Beginning Lotus 1-2-3, Beginning MS-DOS, WordPerfect II, Step Aerobics, CPS-Child, Financial Strategies, Grandparents' Computers, Holiday Decorating, Tummy Trimmers, Stained Glass II, Watercolors, Computers for Small Business and dBASE IV.

H.A. Tuck is public relations director for Midland College.

MAKING THE GRADE

Nicki Holloway, a senior at Trinity School, has been commended to the United States institutions of higher learning by the National Achievement Scholarship Program for Outstanding Negro Students.

She is one of 3,000 achievement program participants who scored in the upper 6 percent of more than 90,000 black students who took the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test in 1991.

Nicki is the daughter of Mr. and Mrs. Willie Holloway. She has attended Trinity since kindergarten, and she is planning to attend a university.

Jamie Calhoun, a Lee High School sophomore recently had a poem published in the National Library of Poetry anthology. Her poem "Hero," which involved the Persian Gulf War, was published in "A View from the Edge."

She is the daughter of Craig and Carroll Harris, and is a member of Health Care Explorer, the LHS band, Future Homemakers of America and the young adult choir of Crestview Baptist Church.

Midland Downtown Lions Club has named Ryan Dalglish Junior Lion of the Week, and Whitney Elkins and Amanda Brown, Junior Lionesses of the Week.

Ryan, the son of Dan and Laura Dalglish, is a senior at Midland High School. He is enrolled in advanced courses and is a member of the National Honor Society, French Club, Computer Club, and Fellowship of Christian Athletes. He also participates in a church youth group and Bible Study. He has received the Student of Today Award and the Optimist Award.

He plans to study environmental engineering at Texas Tech University.

Whitney, the daughter of William and Patricia Elkins, is a senior at LHS. She is enrolled in honors courses and is a member of the National Honor Society and Student Council. She participates in varsity cross-country, and varsity soccer and

has been named to Who's Who Among American High School Students.

She is also an All-American Scholar, Hugh O'Brien Youth Leadership Ambassador and received the Rotary Youth Leadership Award and United States Student Council Award.

She plans to study pre-medicine at a U.S. Air Force Academy.

Amanda, the daughter of Mike and Denise Brown, is a senior at LHS. She is enrolled in honors and advanced placement courses. She participates in Bio-Med Club, Band, French Club, Orchestra, Business Professionals of America, Drug Free Youth in Texas and is a member of the National Honor Society.

She volunteers for Midland Memorial Hospital and is a member of Golf Course Road Church of Christ. She has been named to Who's Who Among American High School Students, Who's Who Among American Band Students and has received the Optimist Award. She is also Student Council representative.

She plans to study pre-med at Texas Tech.

Midland West Rotary Club recently named Deborah Rowland Student of the Week. She is the daughter of David and Kazuko Rowland.

She is enrolled in honors courses and is a member of the National Honor Society, orchestra and the University Interscholastic League Math and Science Team. She also participates in the Midland/Odessa Symphony & Chorus, and the Church of Jesus Christ of Latter Day Saints.

She has been named to All-Region Orchestra, concert master, All-Area Orchestra, and All State Orchestra. She has earned three academic letters, three orchestra letters, a gold medal for Latin exam, and a division rating for the Texas State Solo and Ensemble



Brown



Rowland



Elkins

contest.

She plans to attend Brigham Young University.

Midland Christian School has announced its honor roll for the first six weeks of school.

Students on the "A" honor roll include: first graders Melissa Carroll, Colby Frerich, Jordan Helms, Sarah Long, Jade Mathews, Jessica McClure, Alan McGraw, Aaron Mays, Matthew Moore, Latisha Novak, Ross Nyerges, Karissa Pool, Megan Routh, Drew Scott, Allison Stewart, Erin Temple, Kendyl Washburn and Kelly Wolfenberger; second graders Katie Arnold, Jackie Brock, Timmy Brock, Bianca Carveo, Chad Davis, Ali Delp, Rachel Fenter, Rebecca Gaultney, Rebecca Johnson, Justin Kuethe, Alexis Milmine, Rachel Rickey, Molly Row, Kelton Scott, J. Tom Snelson, Jennifer Stickney, and Jordanne Wilson.

Third grade "A" honor roll students are Tiffany Armstead, Kacy Baker, Matthew Bardin, Justin Dickens, Raenell Diffie, Adam Frazier, Andrea Goodman, Cliff McGraw, Shannan Minihan, Joey Musarra, Amy Neimeyer and Leslie Scott; fourth graders are Jenny Hollis, Stephen Koss, Casey Lagan, Kelsey McMinin, Robin Reece, David Tuck, Taylor Watts, and Dawn Wright; fifth graders Susie Carveo, Jacob Huchton, Elizabeth Johnson, Carl Lee, Matt O'Bryant, Jenny Porter, Daniel Peoples, Jenny Porter, Mary Soederstrom, Beann Temple and Sarah Wilhite.

Sixth grade "A" honor roll students are Marta Fenter, Cassie Johnson, Robyn McGraw, Josh Miller, Kristi Nash, Joanna Porter, Bethany Spradlin, Ashley Stewart, Annette Wennerborn and Dea Wright. Harmony Hargrove is the seventh grader named to the "A" honor roll. Eighth graders are Vanessa O'Bryant and Emily Row; and ninth graders are Hilary Evitt, Missy Lacy, Tiffanie Shepard and Heather Segall.

Tenth grade "A" honor roll students are Hendi Hutton, Michael Nash and Chuck Rundus; eleventh graders are Christy Lavine, Misty Lavine, Mary Mansell and John Treat; and twelfth graders are Jody Duncan and Karen Nash.

Students named to the "A-B" honor roll include first graders Kristi Arnold, Sara Collins, Casey Dawson, Kyle Edens, Kathryn Huchton, Brecklyn Hughes, Mandy Garrett, Dustin Lucas, Thomas Minihan, Cameron Phillips, Danielle Robinson, Kyle Saunders, Colt Sawyer, Sara Skeen, Tammie Teague and Brooke Thompson; second graders Stacie Conrad, Matthew Daugherty, Brian Day, Dillon Farish, Debby Glass, Sean Moss, Ty Seeker, Jenny Smith, Michael Soederstrom, Mark Treat, and Brian Vavrek; and third graders Jarrod Daniels, Garrett Hellums, J.D. Machacek, and Bruce Sheppard.

Fourth grade "A-B" honor roll students are Chris Argo, Jason Dean, Jason Horner, David Koss, Corey Mays, J.J. Scott, Whitney Stewart, and Ben Wade; fifth graders include Sarah Beardain, Stephanie Biddle, Jeff Brock, Caleb Frerich, Nicholas Gaultney, Ryan Hellums, Charlie Hodges, Clint Lacy, Josh Loyd, John Moore, Shaun Rickey, John Sheppard, and Suzanne Stubbs.

Sixth grade "A-B" students are Maribeth Apperson, Paula Brininstool, Alan Brooks, Marlow Dotson-Wall, Stephanie Gamero, Heather Greer, Seth Hendon, Sarah Koss, Jared Lee, Ryan Lalk, Justin Oden, Mendi Sheppard, Caleb Stokes, Debbie Vavrek, Tyler Watts and Shaun Williams; seventh graders include Bryan Bayley, Aaron Beardain, April Carruth, Breanna McGuire, David Waldrop, and Colton Wilson; eighth graders are John Koss, Lucas McLane, Emily Mitchell, Lisa Neimeyer, Estela Nunez, Jodi Phillips, April Sheppard, Kristina Temple and Mendi Wilson.

Ninth graders are Melissa Carruth, Wendy Fowler, April Fuller, Danny Gaddi, Kevin Lalk, Lindy Mansell, and Mike Sawyer; Tenth graders are Marty Arroyo, Danita Kite, Amanda Miller and Andy Mott. Eleventh graders on the "A-B" honor roll are Shay Arisman, Chad Bayley, Jill Delaney, Brian Fairchild, Heidi Hargrove, Tammy Hull, Hollie Hutton, Kyle Jackson, Elizabeth Keasler, Shara Weaver, and Coby Welsh; twelfth graders are Andy Awtry, Carolina Brachetta, Steven Patton, Rhonda Stegall and Amy Walton.

The National Hispanic Institute will host a presentation on the Lorenzo de Zavala Youth Legislative Session for area high school juniors and sophomores Tuesday in the Lee High School library at 7 p.m.

The eight-day summer leadership conference invites 800 top Hispanic students in the nation to learn about issues affecting Hispanics through a mock legislative session. A consortium of 80 colleges and universities present a private College Fair for session participants.

Requirements for admission to the program are: 3.3 grade point average or above; enrollment in college preparatory, honors or advanced placement plan; ranking in the top 25 percent of the class.

All qualified Hispanic students from Midland, Odessa and other area schools are invited.

For more information, contact Zaragoza A. Guerra or Gloria de Leon, P.O. Box 220, Maxwell, Texas 78656-0220; (512) 357-6137.

Bonham Elementary School will celebrate its Fall Festival 5-8:30 p.m. Saturday. This year's theme is "Circus Under the Big Top." Game booths and food will be featured.

Bowie Parent Teacher Association will host its Halloween Carnival at the school 6-9 p.m. Oct. 31. The event will feature food, games, prizes, and entertainment.

The Texas Academy of Mathematics and Science, located on the campus of the University of North Texas, will host two information outreach sessions near the airport.

The sessions will focus on the academy's tuition-free, early college admissions program for high school students with high ability and interest in mathematics and science.

Students can apply for the academy during their sophomore year in high school. The program allows students to concurrently complete their last two years of high school and first two years of college.

Sessions will be offered 4-6 p.m.

and 7-9 p.m. Tuesday at Region 18 Education Service Center, 2811 LaForce Blvd., near Midland International Airport.

All interested middle school and high school students and their parents are invited to attend. For more information call 563-2380 or 1-800-241-TAMS.

Odessa's Mayor Lorraine Perryman will decorate the "World's Largest Jack Rabbit" 10 a.m. Monday at the corner of 8th Street and Sam Houston. "John Ben Rabbit" will be named the 1992 Honorary Red Ribbon Chairperson. The rabbit will be adorned with a large red bow.

The event will kick-off the 1992 Red Ribbon campaign "Red Alert: Stop Drug Abuse."

"Peoples March Against Drugs," the Permian Basin Red Ribbon Parade, will be held in conjunction with this year's Oil Show Parade. More than 30 units have signed up to participate in the parade.

The parade will begin 5:30 p.m. Tuesday.

Texas Tech University will host Feast or Famine, a hunger banquet 6 p.m. Nov. 22. The university and South Plains Food Bank will sponsor the event in order to dramatize the unequal distribution of resources that lies at the root of world hunger. The banquet is also a fundraiser for the Food Bank Garden.

Meals will be prepared and divided among the guests in proportions that represent actual income levels among high-, middle- and low-income countries.

By random drawing, guests will end up in one of the three groups. About 15 percent of the guests will be served a gourmet meal of cornish game hen with all the trimmings, 25 percent will eat a simple meal of potato soup and 60 percent will be served rice and beans.

Gospel singers will provide the entertainment. Tickets are \$10 for Tech students and \$20 for general admission. For reservations call (806) 742-3621.

New Junior High School to Open, Boundary Changes Needed



This artist's rendering of the future Abell Junior High School illustrates more than the "look" of the future building. It also illustrates the need to alter present junior high school boundaries.

Citizens are urged to attend one or more of three planned community input meetings on the proposed junior high school boundaries. The meetings are scheduled for October 20, 7:30 p.m., San Jacinto Junior High School auditorium, 1400 North "N"; Thursday, October 22, Goddard Junior High School cafeteria, 2500 Haynes; and Thursday, October 29, Alamo Junior High School auditorium, 3800 W. Storey.

With the addition of Abell, a pure feeder system will be implemented. All students residing within the Lee High School attendance zone will attend Abell or Alamo Junior High Schools. All students residing within the Midland High School attendance zone will attend Goddard or San Jacinto Junior High Schools.

The addition of an intermediate grade wing to Bush Elementary this summer, and the opening of Greathouse Elementary next school year also necessitates boundary changes. Identification of the attendance area for Greathouse Elementary and alterations to the attendance zones of Scharbauer, Bush and Parker will also be discussed during these meetings.

SCHOOL MENUS

MIDLAND INDEPENDENT SCHOOL DISTRICT

Monday — Breakfast: Hot cereal or assorted cereals, buttered toast/jelly, fruit juice, milk. Lunch: Burrito or BBQ on bun/relish, w.k. corn, cole slaw, pink applesauce, cinnamon roll.
Tuesday — Breakfast: Cinnamon roll or assorted cereals, toast/jelly, fruit juice, milk. Lunch: Chicken fried steak or meat loaf, mashed potatoes/gravy, green beans, collard salad, rolled wheat roll.
Wednesday — Breakfast: Orange/date muffin or assorted cereals and toast/jelly, fruit juice, milk. Lunch: Nacho grande or chef salad/bread sticks, refried beans, lettuce/tomato salad, chilled pineapple.
Thursday — Breakfast: Breakfast taco or assorted cereals and toast/jelly, fruit juice, milk. Lunch: Oven baked chicken or braised beef tips, steamed rice/gravy, seasoned mixed vegetables, green salad, wheat roll, fruit bar.
Friday — Breakfast: Pancakes/syrup or assorted cereals and toast/jelly, fruit juice, milk. Lunch: Hot

dot/chili/cheese or chicken nuggets/gravy, wheat roll, french fries/catsup, tossed salad, chocolate pudding cup.

GREENWOOD INDEPENDENT SCHOOL DISTRICT

Monday — Breakfast: Sausage/biscuits, cereal, juice, milk. Lunch: Spaghetti, english peas, cole slaw, wheat roll, chilled peaches, milk.
Tuesday — Breakfast: Pancakes, cereal, juice, milk. Lunch: Chicken nuggets, buttered rice, whole kernel corn, hot rolls, fruit cobbler, milk.
Wednesday — Breakfast: French toast sticks, cereal, juice, milk. Lunch: Cheese enchiladas, pinto beans, lettuce/tomato salad, crackers, jelly w/fruit, milk.
Thursday — Breakfast: Egg burrito, cereal, juice, milk. Lunch: Fried chicken, potatoes w/gravy, green beans, hot rolls, peanut butter/honey, milk.
Friday — Breakfast: Waffles, cereal, juice, milk. Lunch: Hamburgers, french fries, hamburger salad w/pickles, Ranger cake, milk.

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42nd and Grandview
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Under the red & white tent.

Up to 75%

LAST DAY - NOON - 6 PM



NATIONAL

Business Women's Week

Saluting Women in Business

National Business Women's Week, October 18-24

Women constitute a growing, vibrant and visionary element of the business community. Celebrate and recognize the business women in our community who are contributing to our cultural and commercial enrichment.



Janice L. Melton
Mission Square and
RE/MAX of Midland
Owner

Jan purchased 103,193 sq. ft. of barren retail/office space in April of 1991, once known as Mission Impossible. Due to her hard work and determination Mission Square is now a thriving strip center that is 97% occupied. She is also the Broker/Owner of RE/MAX of Midland and a proven success since 1987 as a Multi-million Dollar Producer. Jan has two daughters and one grandson.



Genny Bynum
Owner of
Midland Fine Arts Center
and Gallery

Midland Fine Arts Center and Gallery will open Nov. 16th and invites you to take advantage of classes being offered for both children and adults. Genny Bynum has been involved in Art since 1967. She has won several awards. She holds an Art Degree and has taught both privately and at 3-Fold Art School in Louisiana. She is owner, curator of the Gallery and a teacher at Midland Fine Arts Center and Gallery.



Kelly Phillips
Phillips Casing & Tubing Inc.
Vice President

Kelly has worked in her present position for 11 years. Her duties include office operations, public relations and expediting sales. Prior to helping to start her current business in 1980, Kelly worked in the petroleum exploration field. She graduated from Midland High and attended Odessa College and Midland College. Currently Kelly serves on the board of directors of the Uptown Chapter of Business and Professional Women's Club. She is the mother of two children.



Liz Weaver
Essex Agency of Texas
Account Representative

Liz is a wife and mother of two. She was born and educated in West Texas and has worked in the financial industry for over 11 years. She is active in the American Business Women's association and church activities. Her job duties include helping customers determine which investments are best suited to their needs and helping them reach their financial goals.



Zena Sikes
Telephone Sales Manager
The Midland Reporter-Telegram

Zena, a native West Texan, joined the Midland Reporter-Telegram Classified Department in 1990. She supervises an inside sales staff of five. She has worked as a reporter and feature writer for newspapers in Utah and Wyoming as well as Texas. She attended Odessa College and Utah State University majoring in journalism. She is an active member in the Uptown Chapter of Business and Professional Women and the Women's Council of Realtors. She is also a United Way volunteer. She is married and has two sons.



Chris Hagan
Treasurer-Controller
Dawson Geophysical Company

Chris was born in Lubbock. She moved to Midland in 1983 with her husband and two children. She attended Texas Tech, NMJC, Midland College and UTPB. Chris holds a BBA degree in Accounting and Information Systems from UTPB. She became a CPA in 1989. Chris has been in her current position for three years. She is treasurer of the Leadership Midland Alumni Association and a member of the Uptown Business and Professional Women's Club.



Laura J. Ingram
State Farm Insurance
Agent

Laura has been an agent for five years. Her duties include sales and service for auto, home, life and health insurance. Prior to entering the agency, she spent seven years in the State Farm Claims Department as an adjuster and claim superintendent. She earned her Bachelor of Science degree from Texas Tech University in Lubbock. She is a member of the Uptown Business and Professional Women's Club and a Leadership Midland Alumni. Laura's husband Drew works in the agency with her. They have two children.



Debby Brewster
The Midland Reporter-Telegram
Credit Manager

Debby was recently transferred to the Accounting Department as Credit Manager. She previously worked as a Classified Consultant. She has been with the Midland Reporter-Telegram for four years. Prior to joining the Midland Reporter-Telegram, Debby worked in finance and credit bureaus in Texas and New Mexico. She is married to Larry and they have two sons, Darrell and Justin.



Jacquelyn "Pat" Sheely
Owner
The Underground Railroad
Bookstore

Pat, an elementary teacher for MISD, became interested in starting her bookstore while working as a teacher and librarian in Melbourne, Australia. She realized her dream of owning a bookstore one year ago. Pat received a BS degree and a M Ed degree from Prairie View A&M University. She is the mother of twin daughters, Demetria and Deandra.



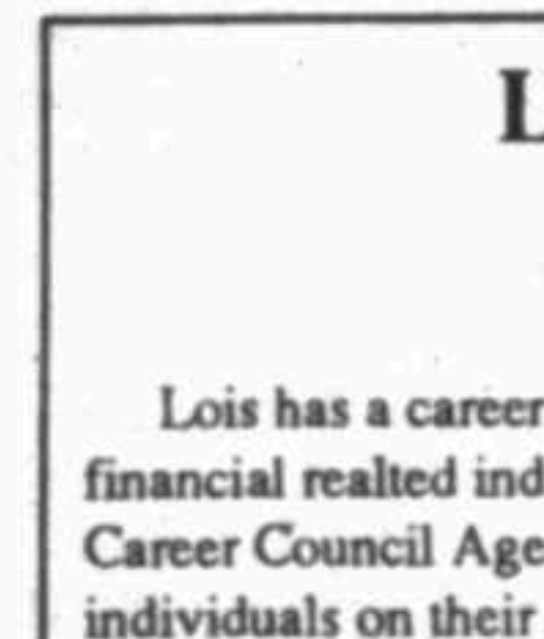
Dawn DeLane Schwarz
BeautiControl Cosmetics
Certified Image Consultant

Dawn offers private consultations and corporate seminars in Image Improvement. The products and services offered are designed to enhance the self-image thereby improving self confidence. Dawn has been her present career for 3 1/2 years. She earned a BS degree from Texas A & M University in 1983. Dawn also assist both male and female clients with wardrobe planning and accessorizing. She is married to Jeff who is an engineering supervisor with Arco.



Linda L. Farrar
New York Life Agent

Linda specializes in disability insurance, but also writes life and health and can help with financial and estate planning. She holds degrees in business and geology from the University of Wyoming. Linda was transferred to Midland with a major oil company 8 years ago; from which she resigned to open her own business. She is very active in the Uptown Business and Professional Women's organization and has, for the second time, created, organized and moderated the very successful "Networking in the 90's Seminar" for BPW.



Lois L. Isbell
New York Life
Agent

Lois has a career history of working in accounting and financial related industries. In 1992 she became a Career Council Agent. She now works with businesses and individuals on their retirement and protection programs. She has been in her present position for 2 years. Lois attended Midland College and Texas Tech. She is a member of Community Advisory Council of Texas Youth Homes.



Lois K. Folger
Texaco Exploration & Production Inc.
Project Engineer

Lois' responsibilities include enhanced oil recovery and reservoir engineering. She has been in her present position for 2 years but has worked with Texaco for a total of 8 years. She has worked as a production engineer in Notrees, Tx; and as a Reservoir and Evaluation Engineer in Midland. She earned a BS in Petroleum Engineering from the University of Texas in Austin and an MBA from UTPB. She is married and the mother of two daughters. Lois is a 1992-1993 Leadership Midland participant.



Pricilla Jane Ray
Precious Joy's
Poetry in Motion
Owner

Pricilla writes personalized poetry for all occasions. She began this career 2 years ago. Prior to that she spent 4 years in the jewelry trade. She is now a student at UTPB. Pricilla has won several honors in poetry: two Golden Poetry Awards, merit awards, and honorable mentions. She is listed in Who's Who in the World of Poetry as well as the Homer Honor Society for Poetry.

Business and Professional Women's Club to honor Woman of the Year Oct. 21

The Uptown Chapter of Business and Professional Women (BPW) is scheduled to meet at noon, Wednesday, Oct. 21 at the Petroleum Club. In honor of Business and Professional Women's Week, the group will announce and honor their "Woman of the Year." This woman is selected based on service to the club and the community as well as personal and professional achievement. Nominations for this honor are accepted from members of the club and reviewed by a committee.

In addition to the announcement of Woman of the Year, Betsy Triplett Hurt, candidate for District 81 State Representative will be the guest speaker. Hurt is a native West-Texan and a former television reporter and news anchor. She graduated from Texas Tech and is extensively involved as a volunteer with many non-profit organizations in Odessa.

BPW was founded in 1919, BPW/USA was first among women's organizations to formally endorse the Equal Rights Amendment in 1937, and has led the drive for ratification ever since. The organization has been a leader in passage of the landmark civil and women's rights legislation of our time, from the Civil Rights Act of 1964 and the Equal Pay Act, to the Title IX and the Equal Credit Opportunity Act. Pay equity, better child and dependent care, fair pension laws and equity in insurance, equal opportunity in education and training are just a few of the issues that matter most to BPW and most working women. BPW brings those issues to policy makers in Washington, in state capitals and in city halls across the country.

The goal of BPW is to promote full participation in the workforce, equity, and economic self-sufficiency for America's working women. Membership in BPW is open to all women and men who support its goals and objectives and who are actively engaged in business or the professions. Membership is also open to those enrolled in college or a university or other accredited educational institution above the high school level.

At 10 am, Saturday, Oct. 24, BPW members plan to join other local women's groups in going to vote in mass. Members plan to wear white in honor of their fore-mothers who worked to make the vote for women possible. All working women are invited to participate in both the Oct. 21 lunch meeting as well as the voting exercise.

To make reservations for the lunch meeting contact Leslie Wood at 684-5886.

Your Issues Are Our Issues!

BPW Texas

Texas Federation of Business and
Professional Women's Clubs, Inc.

Join Now!

**and Become a part of the Largest
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For more information, call
Chris Hagan at 682-7356

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NEW 1992 PARK AVE. Luxury Package

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DEPENDABLE 1983 Buick Electra V8, radio, air conditioning, four door, power, good gas mileage. \$1,300. 683-6279. 1984 BUICK LESABRE 4 door, power windows, etc, white vinyl interior, leather. Clean!! \$2,900. 697-2829. 1981 LINCOLN TOWNCAR, Signatara Series, wire wheels, nice car, excellent mechanical condition. \$2,000. Call 520-7612. 1978 PONTIAC BONNEVILLE looks good, runs good, total electrical \$500. Call anytime 5 PM, 697-3721. 1989 BERETTA GTU-bright red with gold wheel package, sunroof, fully loaded. Is price of new one at \$7,950. Midland Motors, 2616 W. Wall, 682-8301, 682-4900. 1984 FIREBIRD, automatic, \$1850. Cash only. New paint. Nice car. 2414 W. Wall. 1978 CHEVROLET CAMARO, red and white, almost new tires, in good condition. \$1,250. 697-8487. 1990 CADILLAC Seville, Leather Interior, Gold Edition. Call 697-0716 after 5:30 pm.	1987 FORD TAURUS, looks great, high mileage but runs good. All power. \$3886 firm. 689-2932. 1992 CHEVROLET CAMARO. Red. 26,000 miles. Sharp! Like new. \$10,800. Call 697-0219 days, 689-0554 evenings. 1984 BUICK LESABRE LTD, high-way mileage, small V8, immaculate, \$3,195. 689-3134, 694-7384 1981 CUTLASS four door, 89,000 miles, excellent condition. Book \$1,400. must sell \$825 cash. 689-0316. 1986 GMC SUBURBAN, loaded, 2-tone, one owner, good condition. \$6995. Call 694-1399.	COMPANION CORNER The following ads have been placed by singles looking for non-romantic friendships. I'm a 51 year old Caucasian female, divorced. I would like to meet other Caucasian single people for friendship and socializing. If there are other people out there in similar circumstances, I would like to here from you. All replies will be answered.MP-610.	FEMALE PERSONAL ADS The following ads have been placed by females looking to meet males 5'2", eyes of blue, I wished I didn't have to do this don't you. Divorced Caucasian female. 130lbs, stable, educated & professional, no children. Variety of interests. Love to dance! You must have a sense of humor. No drugs, No tv monsters or football ads. Please send phone number and photo please. All replies will be answered.MP-616. Single Black female thirty-something looking for romance with intelligent, self-sufficient, fun-loving man 30-50. Single parent ok. I do not have children. Love music, sunshine, candlelight, flowers, laughing, talking & singing. 5'8", attractive and lonely (but not desperate). For a serious long-term monogamous relationship and phone number and description.MP-617. Caucasian female 49, new to
"FASTEST I'VE EVER SOLD ANYTHING" B. Petty was thrilled with the response she received from her classified ad. Call The Midland Reporter-Telegram Classified to place your ad today. CLASSIFIED CAN 682-6222	FEMALE PERSONAL ADS The following ads have been placed by females looking to meet males Goodlooking Caucasian single male, 33, medium height, bachelor worker. Homeowner looking for a soulmate. She should be nice looking, well grounded, social, humorous, open minded, ready to make a commitment. Children a plus. Include a photo & telephone number. Will answer all replies. MP-603 On visiting your city this summer from Alaska, I was impressed by the friendliness of the people. I am a music professor, an army officer, and a published author. I live in a 3-story log home in silver birch forest where the moose roam free. I am seeking a bright lady, poet, single or divorced, age 30-40, interested in travel, culture, the outdoors, classical music, and clean lifestyle, to change thoughts and photos. MP-602	Goodlooking Caucasian single male, 33, medium height, bachelor worker. Homeowner looking for a soulmate. She should be nice looking, well grounded, social, humorous, open minded, ready to make a commitment. Children a plus. Include a photo & telephone number. Will answer all replies. MP-603 Searching for a sophisticated	MALE PERSONAL ADS The following ads have been placed by males looking to meet females

Please run my ad in "Meeting People" for 2 Sunday editions at no charge to me. I understand that you have the right to edit the submitted copy and will forward all replies that meet forwarding fee requirements directly to me at the mailing address below. I understand that all information is confidential.

Name: _____
Phone: _____
Address: _____
City: _____ Zip: _____

Here is my copy (60 words or less)

Attractive lady mid 50's would like to meet a kind, sincere gentleman who likes quiet evenings, travel, dining out, dancing and all kinds of music. I don't smoke or drink, would like someone tall and neat, honesty a plus, "a one woman man". I'm not looking for a meal ticket; I make my own living. Please send phone number or short letter, we'll have coffee. MP-594

I WISH I COULD MAKE THIS AD STAND OUT FROM ALL THE REST! I'd love to meet a Caucasian one-woman man, over 5'10", 40-50, who likes cooking out, movies, travelling. Sunday afternoons with friends - someone who takes relationships seriously. You must love children, the sunrises and sunsets of West Texas and have a sense of humor. I'm a divorced Caucasian female, attractive, 40ish, 5'6", who is professional, college educated, and mother of one. Please write soon and send your phone #. MP-598

White female with dark brown hair seeking male companionship. I am 5'4 1/2" and weigh 125 lbs. I love to swim and I consider myself to be a very understanding person at all times. If you like the things I've said please feel free to call at any time.MP-601

Tired of the bars /waiting to meet that right someone? Are you single, attractive, fun, stable job/life outgoing? If so maybe you should meet — I'm 43 blonde hair, brown eyes, trim, 5'6",humorist, outgoing. I like water skiing, football games,movies,cook-offs,etc. I'd like a smart,good conversation in front of the fire,would like to meet someone to enjoy these with.MP-608.

Looking for a nice gentleman companion, dance partner, and friend. From 60-70 years old. I am 68 years old, 5ft tall and weigh 130 pounds. I like Country and Western dancing, camping, traveling, movies and dining out. Just good clean fun. No drinkers please. All replies answered.MP-609.

Caucasian female, 34 years old, single, no children, brown hair, brown eyes, 5ft, 105lbs. Looking for romance or companionship with a nice guy. I enjoy movies, taking walks, nice meals and being affectionate. Let's see what develops. I will reply to all letters. MP-611.

I am a 64-year old energetic business woman. I enjoy ranching, gardening and travel. No drinkers please. MP-613.

Goodlooking Caucasian female, 27 years old, 5ft, long brown hair, looking for good-looking male to share good times. I love music, country and rock'n'roll. Also-enjoy days at the lake, shopping, traveling, dancing, nights under the stars, cooking, & making someone feel special. Please

inquires answered. MP-593

Attractive lady mid 50's would like to meet a kind, sincere gentleman who likes quiet evenings, travel, dining out, dancing and all kinds of music. I don't smoke or drink, would like someone tall and neat, honesty a plus, "a one woman man". I'm not looking for a meal ticket; I make my own living. Please send phone number or short letter, we'll have coffee. MP-594

I WISH I COULD MAKE THIS AD STAND OUT FROM ALL THE REST! I'd love to meet a Caucasian one-woman man, over 5'10", 40-50, who likes cooking out, movies, travelling. Sunday afternoons with friends - someone who takes relationships seriously. You must love children, the sunrises and sunsets of West Texas and have a sense of humor. I'm a divorced Caucasian female, attractive, 40ish, 5'6", who is professional, college educated, and mother of one. Please write soon and send your phone #. MP-598

White female with dark brown hair seeking male companionship. I am 5'4 1/2" and weigh 125 lbs. I love to swim and I consider myself to be a very understanding person at all times. If you like the things I've said please feel free to call at any time.MP-601

Tired of the bars /waiting to meet that right someone? Are you single, attractive, fun, stable job/life outgoing? If so maybe you should meet — I'm 43 blonde hair, brown eyes, trim, 5'6",humorist, outgoing. I like water skiing, football games,movies,cook-offs,etc. I'd like a smart,good conversation in front of the fire,would like to meet someone to enjoy these with.MP-608.

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Goodlooking Caucasian female, 27 years old, 5ft, long brown hair, looking for good-looking male to share good times. I love music, country and rock'n'roll. Also-enjoy days at the lake, shopping, traveling, dancing, nights under the stars, cooking, & making someone feel special. Please

Male 60 or older. He needs to be attractive, sincere, friendly, easy going, with a good sense of humor. No Drugs! (drugs used only occasionally) like country and western dancing, bowling, weekend traveling & good conversation. If you are looking for a companion to share quality time with please write and send phone number. All replies will be answered. Take a chance, I did! MP-615.

MALE PERSONAL ADS
The following ads have been placed by males looking to meet females

Attractive 20 yr old male with long brown hair, blue eyes, 170 lbs and 6' tall, seeks a single female, 18 - 26 for friendship and possible mate. I love country, long walks, sitting beneath the stars and romantic cuddling. Please respond with a picture (full body) and phone number or letter. MP-592

Caucasian male 55 6'1" 220lbs wants trim attractive lady friend. I travel to Midland months. Must be a good sister. MP-595

Lonely, need companion in all regards! Going against all past philosophies about personal relationships. Stepping out and taking a chance by practicing in the paper. I'm 36, divorced and a second year teacher. I am interested in a true non-game playing relationship. Looking for courageous, forward lady who likes to experiment and take chances. MP-595

Single Caucasian male, 24, 5'11", tall, 190lbs, honest, outgoing, attractive. I enjoy sports, sports and church activities. I am good with children and like meeting people and making new friends. I believe in taking very good care of myself. I would like to meet a female with a good personality. Age not important and all replies answered.MP-597

I'm an athletic, outgoing, attractive Caucasian male, 34 years old and 200 lbs. I enjoy tennis, martial arts, bowling, running, swimming and weight lifting. I like children, traveling and I am a very love giving and receiving attitude. I also like to be unpredictable and romantic, going out of my way to make life more exciting. I'll answer all replies. MP-599

Professional male, 33 years old, never married. Looking for a wonderful female age 28-33, but who would also like to have a family along with a career. I'm 6'3", 190 lbs with a job I love. I've recently ended a very nice long-term relationship, and would

Divorced Caucasian male 37, tall, 195 lbs. Incurable romantic with good job, own home, and enjoy children. Seeking a woman with weight proportional to height. Enjoys evenings in front of the fireplace, and in the country, dancing, most kinds of music, that can and will communicate. Hoping to find that special someone. Please write and include phone number. All replies will be answered. MP-605

Are you lonesome tonight? If you are a one man woman who is looking for a one woman man, you don't have to be real pretty outside, as long as you are a blue inside. Are you looking for serious relationship? If you are Caucasian, early to mid forties, lets get together. Please write soon and send your phone number. All replies will be answered. MP-607.

They say when you drink from the Rio Bravo you always return. Divorced Caucasian male, 50 years old seeks Hispanic lady, 25 or younger for company, dining out, camping, gardening, shopping and enjoying the simple things in life. Smoke and drink. Make my date me quit! Prefer to meet per ladies, children ok.MP-612.

I'm twenty one years old, blonde hair, 5'6", 120 lbs and raised in Dallas Tx. I'm 170 lbs, very stocky. I'm utterly completed. I'm looking for a female to correspond with. Race doesn't matter. Please send replies to learn more about me. MP-618.

Single Caucasian male, 36 yrs old Professional 5'6" attractive and fit with blonde hair and blue eyes. Ex-smoker and like drinking. In search of an attractive outgoing female under 40. A variety of activities including mountain biking, skiing, go-carting, BBQs, quile walks, relaxation, and jazz dancing. Send photo if possible and phone number.

"Classified Casual"
682-6222

To Advertise in Who's Who for Service

210	Automobiles Import	210	Automobiles Import	210	Automobiles Import	200	Automobiles Domestic	200	Automobiles Domestic	200	Automobiles Domestic	200	Automobiles Domestic	200	Automobiles Domestic	200	Automobiles Domestic
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★ 1989 Pontiac Sunbird
Automatic, a/c, tilt, stereo,
cruise, low mileage
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★ 1989 Dodge Aries K
Automatic, air, factory
warranty, nice car
\$5495

★ 1989 Dodge Caravan
Royal pkg. LE,
beautiful mini van
\$10,995

★ 1989 Ford Bronco II
XLT loaded, 4-speed,
Black/silver, 35,000 mi
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★ 1990 Grand Prix SE
Loaded Pontiac with
low miles, Beautiful car
\$10,995

★ 1991 Chev. S-10 PU
6,900 Miles, 5-spd., air,
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Cover, Chrome wheels
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1987 1/2 TON Ford Lariat, XLT,
Extra nice. \$4,500. Call
683-7850.

1985 DODGE 250 RAM van
Roadrunner Conversion, loaded,
318 V8, with rear A/C, new tires.
\$6,500. 683-2189.

1989 DODGE DAKOTA, 1987
Chevrolet 1/2 ton, priced below
NADA book. B & B Auto Sales
2700 W. Wall.

1987 TOYOTA LONG BED, cold
air, 79,000 actual miles, \$3,950.
Financing Available. B & B Auto
Sales, 2700 W. Wall.

1981 FORD Good Times Van.
One Owner. Non-smoker, fully
loaded. \$3,500. Call 689-8165.

1973 FORD CARRIER, good
shape, runs good, AM/FM stereo,
great school car. \$900. Call
570-1428.

1988 Chevrolet S-10 pickup, new
factory paint, air, like new.
\$4,600. Call 686-9505.

FOR SALE: 1986 1/2 ton Ford
Super Cab XLT diesel. 684-6405.

1988 GMC 1 TON DUALY
CREW CAB, 454, with camper
shell and sofa bed. One-of-a-kind
custom truck. Blue and silver,
leather seats, TV and much more.
2 years and 43,000 miles remaining
on warranty. \$16,300.
567-7910.

1991 NISSAN TRUCK, low mile-
age, great condition, small down
payment and take up payments.
694-5446.

Midland Presbyterian Home is ac-
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18 passenger buses. For in-
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Don Elliott at Manor Park, 2208
N. Loop 250 West or call 689-
9898, Monday - Friday, 8 a.m. -
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1985 ASTRO CARGO Van, new
engine, brakes, paint, wheels and
tires. First \$3,000 takes it. 685-
1076, or 689-9427 after 7 p.m.

FOR SALE 1979 Ford 150 Pickup,
460 engine equipped with propane
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MUST SELL 1982 GMC 1 Ton
with 8 X 12 box, rebuilt 454 and
transmission. \$2,000 OBO.
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\$6,950, like new, 1991 S-10 pick-
up, mint with custom graphics
and wheels, tape. See to appreciate.
Midland Motors, 2616 W.
Wall 682-8301, 694-4900.

\$8,950, 1989 Dodge Caravan
S.E. turbo, fully loaded, 1 owner,
under warranty. Book value
\$10,450. Midland Motors, 2616 W.
Wall 682-8301, 694-4900.

REDUCED TO \$3,950, very plush,
1985 GMC Conversion van, red
with explorer package, must see.
58,000 miles. 2616 W. Wall 682-
8301, 694-4900.

1992 CHEVY SUBURBAN fully
loaded, power, teal blue/silver,
non-smoking owner, like new con-
dition, full warranty. \$23,500.
689-6011.

1974 FORD PICK-UP, good work-
ing truck, \$695. 2414 W. Wall.
1976 FORD F100 PICK-UP,
302V8, less than 25,000 miles on
rebuilt engine and transmission.
A/c works. Runs good. Asking
\$1,450. 683-6640.

1987 FORD Hotshot rig, 48" El
Dorado Float, solid economical.
\$15,500 OBO. 915-767-0022,
915-264-6730, 915-677-7500.

1989 ISUZU Pickup- 33,000 miles -
still under factory warranty - like
new - \$5,500 - 550-5803.

1986 DODGE D-150 P/U, 318,
long bed, loaded, one owner,
very good condition. \$4,200.
682-1230.

JEEP CJ7 - Individual looking for
nice CJ7 or early Wrangler. Call
San Angelo (915) 944-9339 leave
message.

1966 FORD BRONCO, stock,
brush guard, tow bar, ready to
hunt, above average condition.
\$2,500. 683-4295.

1991 TOYOTA 4 Runner, Auto-
matic, air, cruise, AM/FM cas-
sette. \$15,999. Call 520-0407.

1988 TOYOTA 4 Runner, V-6,
SR5, fully loaded, excellent con-
dition. 73,000 Highway miles,
\$12,150. Call 686-0778.

1969 FORD BRONCO 302 V8,
strong running engine. Excellent
tires for ON or OFF road, new
stereo, new battery. \$3,700
OBO. 699-1627.

WE HAVE 2 4-WHEEL DRIVES
FOR SALE. 1973 Chevy Subur-
ban and 1986 Iuzu Trooper.
570-5807.

HUNTING TRUCK- 1975 Chevy,
short bed, rebuilt engine and
hunting rack. \$2,500. Call
1-453-4682.

LIKE NEW, 1 owner, 1985 Subur-
ban, fully loaded, red and tan.
See to appreciate. \$6,950. 2616
W. Wall 682-8301, 694-4900.

1992 CHEROKEE LAREDO-
bright red, 6,000 miles, \$17,500
firm. Call Hobbs (505) 397-1271
after 4:30.

1987 YAMAHA Blaster 4
wheeler, 6 speed, 200cc engine,
good condition; two wheel trail-
ers. 694-5529.

FOUR WHEELERS 1992 POLARIS
250 and 1992 Suzuki 250R. Only
ridden twice. Call 694-3937,
694-7796.

MOTORCYCLE in a box (kit form)
1982 KZ500C all parts are in-
cluded except gauges. \$250
OBO. Excellent project for the do-
it yourself person or hobbyist.
520-8119.

1984 KAWASAKI KDX80, clean,
runs great, \$500. 1984 Honda
CR80, parting out or sell com-
plete. Make offer. 697-8331.

1991 HARLEY FXRS, perfect
condition, only 6,000 miles. \$9195.
Call David at 694-8265.

1991 HONDA XR250 dirt bike,
\$1500 negotiable. Runs great.
Call 697-6346.

LAYAWAY FOR THE youngsters
on their Christmas list. Go - Karts,
Mini Monster Trucks & Honda
dirt bikes. Honda - Kawasaki of
West Texas, 5900 W. Highway
80.

12' TRAVEL TRAILER good con-
dition. Perfect for hunting or fish-
ing, sleeps 3 comfortably. Call
Midland School of Gymnastics,
682-7980 ask for Gilmore.

250
Recreational
Vehicles

1984 KOMFORT 24' travel tra-
iler. Excellent condition, loaded
with all options and accessories.
New awning, great travel or fish-
ing, sleeps 3 comfortably. Call
Midland School of Gymnastics,
682-7980 ask for Gilmore.

28' TRAVEL TRAILER, perfect for
deer hunting or other sports. For
sale or lease. 687-5403.

Your RV Headquarters
since 1973

Open 6 Days a week
Billy Sims Trailer Town
520 E. 2nd Odessa
580-3000

BLAKELY RV Complex 561-9551
Now, Fleetwood Motor Homes
11300 I-20, West of 7888

POP-UP camper; sleeps 4 or 5,
stove and electricity hook-up.
\$900. Call 694-7632.

RV Coach Non-Toxic
Anti Freeze...
\$6.95 gal.

-Buy One-Get One Free-
Billy Sims Trailer Town
520 E. 2nd Odessa
580-3000

1990 ROCKWOOD 1280XL
Camper, air condition/ heat,
used 3 times, less than 400 miles
on road, kept in garage. New
\$8,000 will sell for \$4,900.
699-7404.

1974 26' TRAVEL TRAILER Argo-
ny by Airstream fully self con-
tained, super nice inside and out.
\$5,450. Western Motor Compa-
ny, 3805 W. Wall, 520-0086.

1975 MAJESTIC MOTOR HOME,
25' SKW Over, 52K miles, teak-
wood floor and interior. \$5500.
683-7631 or 683-2438.

Just 200 Down on
last few 1992 travel
trailers & 6th wheels.
Billy Sims Trailer Town
520 E. 2nd Odessa
580-3000

260
Boats and
Motors

1992 NEW KAWASAKI SC Jet Ski,
side by side seating, 55,000 with
trailer. Call Mike at home
520-0626 or work 694-4363.

1990 X2 JET SKI- low hours,
\$3,000. Call 570-5230.

16' KING FISHER BASS boat, like
new condition, trolling motor, 55
HP motor, very low hours.
697-2440 Midland.

1990 CHEYENNE JET BOAT,
great for lake or racing. Sell with
or without engine. 570-0340.

1978 17' PHANTOM Boss/ Ski
boat with 1978 115 HP Evinrude,
excellent condition. \$2,500.
689-2632.

290
Auto Parts
and Accessories

REBUILT Power brake boosters,
guaranteed 6 months. Hard to
find and obsolete boosters, our
specialty. 570-9322.

300 ENGINES to choose from.
Long-block, short-blocks - For-
eign, Domestic, Ram's Engines.
401 N. Terrell. 685-1076 or
1-800-974-1076.

YOU CAN EXPECT THE BEST FROM...

"We're Dedicated
To Customer
Satisfaction...First"

Jack Sherman

Jack Sherman

CHEVROLET

Geo

MIDLAND, TEXAS

694-9601 4100 W. Wall 563-0214

Voted Best New Car Dealer & Best Used Car Dealer In The Reporter-Telegram's recent Best Survey!

LARGE SELECTION OF VEHICLES WITH PAYMENTS
UNDER \$200 MO., UNDER \$250 MO., UNDER \$300 MO., etc...

★ Chevrolet Customized Van & Truck Center ★

Excellent Selection of 2 and 4 Wheel Drive Vehicles!

"Chevrolet Is The Best Full-Size Pickup"*

The 1993 Extended-Cabs are in!!

Chevy is your best buy
in a full-size pickup.
For all the best reasons.

Chevy's the best. The best resale value. The best
standard payload. The best rust protection. The
best MPG (EPA est. MPG city 17, highway 23). All
with the biggest V6 you can get. And now J.D.
Power and Associates' research confirms what
Chevy owners have known all along: For new
vehicle quality, Chevrolet is the best full-size
pickup.

5.9%

APR Financing up to 48 months with approved
application. Available on new 1992 and 1993
full size regular cab pickups, vans, S-10 pickups
and S-10 Blazers, and Lumina APVs.

SLIGHT
HAIL DAMAGE
on a portion of our new & used car
& truck inventory could mean

EXTRA SAVINGS!
Come See Us For Details

1993 Chevrolet
Texas/Oklahoma
1/2 TON PICKUP

• Air Conditioning
• Automatic Trans.
• V-6
• GMAC SMARTBUY

\$225⁷¹
MO.

Finance \$13,498.55 for 48 months, 6.9% APR
with approved credit. \$1000 down. \$584.44
Residual. See us for full details.

1992 Chevrolet
S-10 PICKUP
Tahoe Package

• Air Conditioning
• Tilt Steering
• AM/FM Stereo Cassette
• Buckle-Up Appearance Pkg.
• Power Steering
• Chrome Rear Bumper
• And More

\$183⁹³
MO.

Finance \$877.60 for 60 months, 9.9% APR, \$500
down plus TT&L, total of pmts. \$11,035.80, with
approved credit, rebate to dealer.

1992 Geo
TRACKER
CONVERTIBLE

• Folding Seats
• 1.6 Liter Engine
• 5-Speed Manual Trans.
• Tilt Steering
• And More

\$9826

\$10,326 Less \$500 Rebate =
PLUS TT&L

1992 Chevrolet
LUMINA APV

• AC Front & Rear
• Power Seats
• Tinted Glass
• Automatic 4-Speed Trans.
• AM-FM Cassette
• Power Windows & Locks

\$17486

\$17,986 Less \$500 Rebate =
PLUS TT&L

CHOOSE FROM THESE EXCITING PASSENGER CAR LINES

★★★ CHEVROLET ★★★

NEW 1992
CAVALIER
VL COUPE

\$174¹⁴
MO.

Finance \$8215.25 for 60 months, total of pmts.
\$10,448.40, \$500 down plus TT&L, 9.9 APR, rebate to
dealer, on approved credit. #92222.

NEW 1992
CORSICA
SEDAN

\$224⁸⁴
MO.

Finance \$10,606.97 for 60 months, total of pmts.
\$13,490.40, \$500 down plus TT&L, 9.9 APR, rebate to
dealer, on approved credit. #92574.

NEW 1993
LUMINA
SEDAN

\$275¹⁰
MO.

Finance \$12,978.06 for 60 months, total of pmts.
\$16,506, \$500 down plus TT&L, 9.9 APR, on approved
credit, rebate to dealer. #93022

★★★ GEO ★★★

NEW 1993
METRO
3-Door

\$147¹⁰
MO.

Finance \$6939.50 for 60 months, total of pmts. \$8826,
\$500 down plus TT&L, 9.9 APR, on approved credit,
rebate to dealer. #93003.

NEW 1992
STORM
2+2 SPORT COUPE

\$211⁹⁵
MO.

Finance \$9998.85 for 60 months, total of payments
\$12,717, \$500 down plus TT&L, 9.9 APR, rebate to
dealer, with approved credit. #92584.

*J.D. POWER & Associates 1992 Light Truck Initial Quality Study

290
Auto Parts
and Accessories

FORD 300 & cyl. complete, C6
transmission, 351 Ford modified,
stock custom rims for Chevy P/U,
Chevy chrome wheels 8 hole, 4
14" tires, 305 Chevy block, mis-
cellaneous Chevy parts.
682-8903.

310
General
Help Wanted

NEEDED- Experienced Childcare
provider for Bowie Elementary's
after school program. Hours 2 to
6 pm Monday thru Friday. Above
minimum wage. Come to YMCA
800 N. Big Spring for
application.

TELEMARKETING - Tired of mini-
mum wage? Make \$5.00 an hour
plus bonuses taking incoming
phone calls. No experience nec-
essary. Out going personality re-
quired. Call Matthew Lewis at
686-5099.

SEEKING HARD WORKING in-
dividuals for full time/ part time
positions for Christmas. \$4.75 per
hour. Apply in person at The
Ranch House, 3001 W. Loop 250
(By Nervyns).

290
Auto Parts
and Accessories

REBUILT Power brake boosters,
guaranteed 6 months. Hard to
find and obsolete boosters, our
specialty. 570-9322.

300 ENGINES to choose from.
Long-block, short-blocks - For-
eign, Domestic, Ram's Engines.
401 N. Terrell. 685-1076 or
1-800-974-1076.

310
General
Help Wanted

NEW BEAUTY SHOP has
6 chairs for lease to op-
erators with clientele.
Clean, non-smoking atmosphere,
parking. Call today! 684-7409.

THE HOLIDAY INN Country Villa
is now accepting applications for
desk clerk/ night auditor. Learn
computer skills on the job. Apply
in person 4300 W. Wall.

310
General
Help Wanted

NEEDED- Experienced Childcare
provider for Bowie Elementary's
after school program. Hours 2 to
6 pm Monday thru Friday. Above
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TELEMARKETING - Tired of mini-
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686-5099.

SEEKING HARD WORKING in-
dividuals for full time/ part time
positions for Christmas. \$4.75 per
hour. Apply in person at The
Ranch House, 3001 W. Loop 250
(By Nervyns).

310
General
Help Wanted

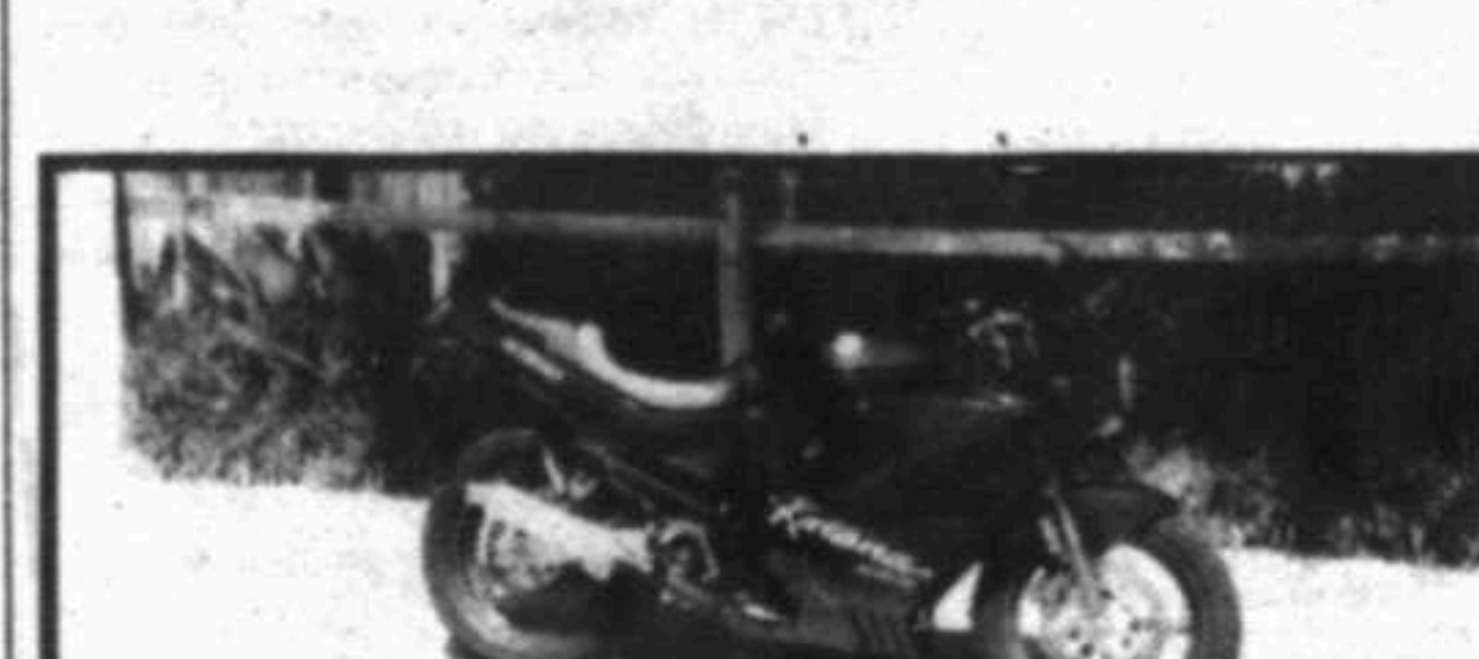
NEEDED- Experienced Childcare
provider for Bowie Elementary's
after school program. Hours 2 to
6 pm Monday thru Friday. Above
minimum wage. Come to YMCA
800 N. Big Spring for
application.

TELEMARKETING - Tired of mini-
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plus bonuses taking incoming
phone calls. No experience nec-
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quired. Call Matthew Lewis at
686-5099.

SEEKING HARD WORKING in-
dividuals for full time/ part time
positions for Christmas. \$4.75 per
hour. Apply in person at The
Ranch House, 3001 W. Loop 250
(By Nervyns).



1982 JAGUAR XJ5 with Chevrolet V-8 conversion.
Paint job 1 year old. Good condition. Asking \$11,900.
Call 699-7930 and leave message.



1991 SUZUKI KATANA 600. Super modified to
perfection. Make offer! Serious inquiries only please.
699-7640, if no answer leave message.

310 General
Help Wanted

NEED LICENSED PLUMBER with reliable truck. Call 689-2709.

WANTED LAB TECHNICIAN math and chemistry required. Please call Craig 368-0888 or fax resume to 363-9539.

DRIVERS/OWNER OPERATORS 2-8 with 9% pay, van fleet mileage pay, weekly settlements, personal dispatcher to meet your needs. Fleet truck owners welcome. 1-800-633-8287.

GENERAL OFFICE Handle front desk duties. 8 - 5, Monday thru Friday. Busy phone. Good personality. Dependability is a must. References will be checked. \$4.35 per hour.

Call Susan at 684-5900
Workload Temporary Services

NEED shop couple with people and maintenance skills to reside at and manage 80 unit apartment complex. A total pay package including apartment will be \$1,200 monthly. Send inquiries to: P.O. Box 69311, Odessa, TX 79769-0311.

CONSIDERING A CAREER IN Real Estate? Call for information Connie Powell & Associates. Ask for Connie 694-6060.

NOW HIRING: Wait persons - days. Apply in person 4358 W. Illinois. Fred Freddy's. EOE.

DELIVERY DRIVER

Rent-A-Center, the leader in the rent to own industry, is seeking a service-oriented individual to work full-time as a Delivery Driver making deliveries in our company vehicles.

Requirements:
• valid drivers license
• excellent driving record
• be willing and able to lift heavy objects

We offer:
• \$5.66 per hour
• benefits
• opportunity for advancement

Apply in person at the location listed, Rent-A-Center 38 Village Circle Midland, TX 79701. EOE.

WAREHOUSE POSITION Position requires ability to lift 50 lbs., inventory reconciliation, shipping/receiving and physical plant maintenance. Retail/wholesale grocery experience preferred. Work schedule Monday thru Friday, 6 AM - 2 PM. Send resume and salary requirements to Personnel Department BOX M-02 c/o The Midland Reporter-Telegram, P.O. Box 1650, Midland, Texas 79702.

FOSTER PARENT

TO LIVE IN & CARE for one to six children (will vary). If interested, please call 684-6932.

WHAT A BURGER Now hiring management for immediate employment. EXPERIENCE REQUIRED. For interview call 367-1542 and go by 800 Andrews Hwy and pick up application. EOE.

INTERNATIONAL COMPANY seeking full time personnel only. Neatness a must, 40 hours plus a week, bonuses, incentives and paid vacations available. Call Monday 9 AM to 4 PM for interview, 561-5640.

HANSON INDUSTRIES a worldwide manufacturer seeking full time personnel immediate. Good work habits and neatness a must. 40+ hours a week, bonuses and paid vacations available. For interview call 520-0098 from 9 AM - 12 PM, Monday only.

LOSERS RECALL 30 pounds, 30 days for \$30. New guaranteed natural product. Call 699-0824.

WANTED

BABYSITTER/ HOUSEKEEPER Someone mature, who loves children. Flexible hours required. Must be willing to work Friday and Saturday 8:30 to 4:30 days, some evening sitting also. Must be willing to stay with two small children when we travel, or travel on trips - this is a must. Ironing, light housekeeping and some cooking required. Must have a car, be a non-smoker and speak English. If interested, call 683-1966 between 9 AM - 8 PM only.

WANTED: Desk Clerk and Wait-person apply between 9 - 11:30 am on Ramada Hotel 3100 W. Wall.

ENGINEER'S AIDE

Assist professional engineer as part of a team of skilled technicians. High school graduates to age 27. Relocation and training provided. Superb salary, benefits and opportunity for professional growth. Call 1-800-354-9627, Mon - Fri, 9 AM - 4 PM.

FULL-TIME, EXPERIENCED Waiters and waitresses needed. Drug test required. Must apply in person. Greentree Country Club. Interviews Monday - Friday, 2 - 5. WHAT A BURGER Now hiring for immediate employment. Full time, part time, day or night shifts available. Apply with manager between 2 - 5 pm, 3206 Midkiff.

EXPERIENCED MANAGER AND MAINTENANCE

to work for local apartment complex in Midland. Send resume to P.O. Box 50521, Midland, Texas 79710-0521.

KETTLE RESTAURANTS INC.

AMERICA'S KITCHEN®

invites you to join our team. We presently have openings in the Midland/Odessa area for all positions including: Management Cooks, Servers and Utility. We will be accepting applications and conducting interview on Monday, October 19th at the Holiday Inn Parkway, Odessa 9 AM - 4 PM

We hope to see you there.

EOE M/F/D/V

PART-TIME INSERTERS NEEDED

The Midland Reporter-Telegram is taking applications for part-time inserters to work varied shifts, including weekends.

Apply at:

Midland Reporter-Telegram
201 E. Illinois Avenue

Brown & Root



BROWN & ROOT, INC., a worldwide leader in the Engineering and Construction Industry, has immediate openings at its construction project near Denver, Colorado for the following qualified individuals:

**PIPEFITTERS
ELECTRICIANS
PIPEWELDERS (Combination Only)**

No Travel Pay or Per Diem

\$14.75 HR

3-4 Months Duration

40 HRS WK.

Spot Overtime

REQUIREMENTS

- Pass physical and drug test
- Provide identity and employment eligibility documents
- 5 years experience as craftsman
- Personal tools required

Qualified applicants call for information:

303-292-3452
Monday - Thursday
7:00 a.m. to 4:30 p.m.

Brown & Root offers competitive wages and a comprehensive benefit package which includes free employee major medical insurance. We also offer life insurance and a profit sharing plan in connection with our retirement and savings program.

Brown & Root, Inc.

And Associated Companies/An Equal Opportunity Employer
P.O. Box 3, Houston, TX 77001
A Halliburton Company

Lab Technician

GENERAL TIRE, INC., a major international tire manufacturer in Odessa, operates a synthetic rubber plant, utilizing petrochemical processes. We currently have an immediate need for a Lab Technician to work in our Quality Assurance Department.

The successful candidate will be a high school graduate (or equivalent) with the ability to sample and test material as required to assure consistent quality of incoming raw materials, in-process materials, and finished products. Also required is the ability to perform basic mathematics calculations, collect and run analyses on sample material including physical qualities, record data in logs, read and understand policies, lab procedures, schedules and training material.

We offer a comprehensive benefit program which includes automatic pay increases over a 40-month period. Starting salary will be in the range of \$10.00 per hour depending on experience. For confidential consideration, send your resume or letter of application to:

Personnel Manager
GENERAL TIRE
South Grandview
P.O. Box 2032
Odessa, TX 79760

An Equal Opportunity Employer M/F/H/V

Come join the Western Sizzlin Family at 515 Andrews Hwy. WE OFFER

Flexible schedules, competitive hourly wages, excellent job training plus exciting opportunities for advancement. Full & Part time positions are available immediately for experienced:

- Cashiers
- Wait Staff
- Kitchen & bakery preparation
- Food Bar preparation

So come and get in on these exciting job opportunities by applying in person at

WESTERN SIZZLIN
515 Andrews Hwy., Midland Tx.
230-430 p.m. Daily

FRIEND'S CONVENIENCE STORES

is looking for 2 - 10 and 10 - 6 salespersons. We will be interviewing from 3 - 5, Tuesday Oct. 20th. Interview on the spot. 610 Andrews Hwy., Midland.

LONGEST DISTRIBUTION INC. is now taking applications for experienced Truck Drivers. Must have CDL license and be able to pass drug test and physical. Apply in person at 11809 County Road 125 West, Midland, Texas, 79711.

DRY CLEANERS has openings - full time and part time work for responsible individuals. Apply 2509 W. Illinois.

GAS STATION ATTENDANT needed, must be dependable, honest, well groomed and willing to work. Apply in person at I & L Inc. 808 S. Big Springs.

MINARDI'S DETAIL and Auto Body is now hiring an experienced individual in all phases of detail, body work and paint. Apply at 705 E. Florida, Midland, Texas.

SHAKLEY'S - Evening help needed. All positions available. No experience necessary. Apply in person 3305 Andrews Hwy.

MR. GATTI'S PIZZA

3205 W. Cuthbert

We are now hiring manager trainees for our Midland store. We are looking for self-motivated people who are goal oriented. Experience is preferred but not a must. Salary is negotiable. Apply between the hours of 8am & 5pm, Mon thru Fri.

PINOCCHIOS PIZZA

is now hiring cooks

early morning person, and drivers.

Apply in person at 3303 N. Midkiff

RECEPTIONIST/ SECRETARY

position for independent oil and gas operating company. Good front desk appearance and phone manners. Knowledge of Wordperfect a plus. Benefits, Salary DOE. Non-smoker preferred. Send resumes to BOX M-16 c/o The Midland Reporter-Telegram, P.O. Box 1650, Midland, Texas 79702.

FULL TIME SALES PERSON with other duties. Must work Saturdays. Taking applications at Great Wallpapers, 3211 W. Wadley.

We are looking for ambitious, responsible people with hotel, travel or restaurant experience and dependable transportation to fill the following positions:

- Night Auditor (11 PM - 7 AM) with accounting and computer experience
- Part-time Banquet Person
- Room Attendants (8 AM - 5 PM)
- Night Room Attendants (1 PM - 9 PM)
- Food & Beverage Supervisor
- Dishwasher
- Line Cook
- Busser
- Cafe Server

Apply at the Midland Hilton and Towers Human Resources Department 117 West Wall Tuesday - Wednesday 9 - 2 Thursday 9:00 - 12:00

MSA INDUSTRIES, INC.

Flake Line Coating Applicator for Tanks and Vessels

Minimum 3 years experience. Must pass drug test and physical. Only experienced need apply.

Apply in person 2742 I-20 West Odessa, TX 79763

Come To Sundance... where the sun always shines!

As a rapidly growing national provider of rehab services, Sundance Rehabilitation has the BEST to offer therapists in Midland. We seek:

Occupational Therapists
\$38-\$55K/yr DOE

At Sundance you're a team member, not an "employee". In addition, you're offered the BEST salaries and benefits including: 401K/retirement plan, 100% health/dental/life insurance, 100% CEU reimbursement, 100% association dues, and much more!

If you're looking for a therapy career that will SHINE, contact Gary Bennett or David Knies, Sundance Rehabilitation Corporation, 222 W. Las Colinas Blvd., Ste. 1650, Irving, TX 75039, (800) 669-9932. EOE



RN's Sign-On Bonus Full-Time & Part-Time

Texas Oncology, the nation's largest private oncology group practice, is seeking RN's with oncology or ambulatory care experience for our outpatient office in Midland. In addition to an excellent comprehensive benefits package (including a relocation package), Texas Oncology also offers:

- Generous Sign-On Bonus
- OCN Bonus Plan
- Regular Office Hours Monday-Friday, 8:30am-5:00pm!
- Clinical Ladder
- Clinical Research Opportunities
- CEU Approved Educational Programs Within The Work Setting

Enjoy a challenging career! Work one-on-one with our physicians making interdependent decisions as part of a health care team. Qualified candidates please call 1-800-442-6802 ext. 602 (TX only), or forward your resume to: Texas Oncology, P.A., Attn: Personnel, 3320 Live Oak, Suite 540, Dallas, TX 75204. We are an equal opportunity employer.

Texas Oncology, P.A.

310 General Help Wanted

BUILD your own business. Make as much as 9 - 5 jobs. Sell Avon, Verla, 520-0119.

WHAT?

That's right...one of the best part-time income supplements around. Doesn't conflict with your 'day job.' Doesn't require day care. And it's dependable income.

Fact: 95% of our Distributors NOW are ADULTS supplementing their income with Route Distributorships!

Fact: Our Distributors make from \$400-\$800 monthly AFTER expenses, some even more!

The catch? You've gotta be able to handle early mornings and weekends. And when you take a few days off, you'll need to find a substitute for yourself.

So...are you serious about MOONLIGHTING, or what? If you are, and you have dependable transportation and can put up a \$100 deposit...

Call Tonya 687-8807 and start making that extra car payment today!

EARN AND HAVE FUN WITH AVON. Full or part time. Call Linda 694-9792.

INTERIOR PAINTER needed in ex-changes for free rent. Come by 2700 N. Midland Drive. No Phone Calls.

PHONE JACK INSTALLER

Need 6 experienced dependable and neatly dressed people for a special 4 to 6 week work assignment in Midland. Schedule requires afternoons, early evenings and Saturdays. Must have dependable transportation. Send hand written letter of application and salary requirements to:

Personnel Department
BOX M-01
The Midland Reporter-Telegram
P.O. Box 1650
Midland, Texas 79702.

TRUCK DRIVERS-\$2,000 sign-on bonus, drivers w/6 mo. OTR exp. Up to 20¢/mi., +2¢/mi. MPG bonus. Get home. COM TRANS INC. 1-800-759-0980, Dept. AP-93.

NOW HIRING

Would you like to earn \$2,000 to \$3,000 per month? You can, if you are ambitious and have the right attitude. You must be neat in appearance, have a good driving record and be aggressive.

We offer: Paid training, paid vacation, great commissions, plus bonus.

If interested apply at

★ VILLAGE ★
★ LINCOLN ★
★ MERCURY ★
★ DODGE ★

3915 W. Wall

WHY WORK FOR SOMEONE ELSE?

Start your own business cleaning carpets for \$150-\$300 per day. Small start-up expenses required. Call Jerry at 915-524-5166, Andrews.

310 General Help Wanted

SIGN-ON BONUS! Owner/operators wanted. 5 years oil field experience. No non-owner/operators. Late model trucks and trailers preferred. Physical, drug screen and clean driving record required. CDI with all endorsements required. Turner Brothers, Inc. 1-800-666-6617. EOE.

SEEKING PROFESSIONAL PART TIME ACCOUNTANT, with computer experience, approximately 6 hours a week, with college degree or 5 years experience. Non-smoker. Call 682-1213.

TECHNICAL INDIVIDUAL with a minimum 5 years experience. Must enjoy long hours and hard work. The best applicant will have a combination of laboratory and field experience, a good driving record, and alcohol and drug free is a must. Please send resume to P.O. Box 7279, Odessa, TX 79760-7279.

NEEDED: Bright, enthusiastic, responsible person for full and part time leasing position. Some experience preferred, but not necessary. Accepting resumes and applications Monday and Tuesday only between 9 am - 5 pm. Apply in person at 4000 W. Illinois. No phone calls please.

ST. LUKE'S Child Development Program has teaching positions for toddler age groups (2 years old) prior experience with this age group a must. Call 694-2574 for interview appointment ask for Gary or Josie.

PART-TIME Rental Agent, typing required. Apply at National Car Rental, Midland Airport. \$100 READ BOOKS FOR \$55. \$100 per title. Need freelance and proof readers now. Record message gives details. Call 1-702-251-7182.

NOW HIRING

friendly, dependable counter help to work all shifts. Apply Monday and Tuesday, 2 to 4, 610 N. Big Spring or Midkiff/ Andrews Hwy.

LICENSED REPAIR PLUMBER - good benefits, \$400 + per week. Hobbs, call collect (505) 393-0229 or 392-7682.

PART TIME SALES POSITION available

With full time possible. Apply in person at GNC Midland Park Mall.

Join the Oil Show Fun!

Have a blast & make some cash. Pop some corn in a flash. We need a smile & friendly face. For our clients Oil Show place.

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311 Medical Help Wanted

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DOCTOR'S OFFICE needs experienced Lab Technician. Send resumes BOX L-09 c/o Midland Reporter-Telegram, P.O. Box 1650, Midland, Texas 79702.

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Starting October 19th. For more information call: Compas, 550-4101 or 365-2525. 2817 John Ben Shepherd Parkway, Odessa.

FULL TIME LVN NEEDED at the Parks Good Samaritan Village. Must have excellent people skills, clinical skills and love working with the elderly. For an appointment please call Lori Wingate, RN at 563-5707.

AT THE PARKS GOOD SAMARITAN VILLAGE we are looking for a few qualified certified nurses assistants. If you are interested in becoming part of our caring team please call Lori Wingate at 563-5707.

PHYSICAL THERAPIST needed for home visits in Midland area. Nurses Unlimited, Medicare Department, 2101 W. Texas. Call Brenda or Brenda 570-0124, 8 - 5, Monday thru Friday.

DOCTOR'S OFFICE needs experienced Medical Transcriptionist. Send resumes to BOX M-09 c/o The Midland Reporter-Telegram, P.O. Box 1650, Midland, Texas 79702.

PART TIME RECEPTIONIST needed for our out-patient Radiology Clinic. Radiology experience including knowledge of procedures and scheduling patients a plus. For consideration please send or bring resume to 2409 W. Illinois, Ste C, Midland, Attn: Sharon Brown.

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CHARGE NURSE: LVN or RN for Medicare unit. Call 1-800-491-2841 Tom or Freddie. Stanton Care Center. EOE.

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Specials Radiology Technician Cardiac Cath. Lab

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Cath. Lab Monitor Technician

Qualifications include: Basic dysrhythmia knowledge required. Hemodynamic experience preferred/will train. Full time plus on call hours.

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Physicians & Surgeons Hospital

P.O. Box 51070 Midland, TX 79710 Attn: Patsy Bright (915) 686-3837 EOE

Physicians & Surgeons Hospital

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** Licensed or Physical Therapy Assistant, Texas Licensed or Texas License eligible, experienced preferred PRN for Weekend.

** RN Supervisor must be RN with Supervisory experience, Bachelor's required, Master's preferred.

** RN's Full-time and Part-time and PRN's.

\$1000 SIGN ON BONUS FOR FULL TIME R.N.'s

We offer competitive salaries, medical/dental insurance, tuition reimbursement, 24 days paid time off per year, shift/specialty/weekend differential, 20% PRN-RN differential, credit union membership, 401K. Special medical benefits (no out of pocket expense) for medical procedures done at this facility. Inquire for details. Interested persons should contact.

P.O. Box 51070 Midland, TX 79710 Attn: Patsy Bright (915) 686-3837 EOE

311 Medical Help Wanted

Physicians & Surgeons Hospital

Physicians & Surgeons Hospital

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excellent condition, \$375.
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 These animals and more are up
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 Big Spring Humane Society
 If interested call 267-7832
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ANTIQUE G & B gas pump, unrestored, good condition. Call 520-6119.

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buy quality antiques and en-
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AKC DALMATIAN Puppies for
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CLASSIFIED CONTINUES
IN SECTION D

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**CLASSIFIED CONTINUES
IN SECTION D**

Substantial

Character



Produced by Advertising Services

This spacious Old Midland home is gifted with charm, substance, space and delightfully unique design. Custom built, this one-owner home has been maintained to perfection.

Open the door to a gleaming foyer. It's terrazzo floor leads in three directions. To the right lies a large, beautifully appointed formal living area. One wall is almost all glass, boasting a floor-to-ceiling window.

Continue to the right — the living area spills into a beautiful formal dining area. Walls are textured with marvelous wallpaper that rises from the chairback railing. A glimmering chandelier catches and reflects light that streams in from an enormous bay window.

A left turn leads to a large, country kitchen. It boasts tons of cabinet space, jaunty wallpaper border and plenty of room for a large, welcoming table... an ideal spot to cook and enjoy formal meals.

A right turn to the kitchen leads to an informal living area. This warm, comfortable, yet sophisticated room can also be reached by walking straight forward from the foyer.



Photography by Curt Wilcott

It's expansive brick floor gleams. White painted wood paneled walls add a sense of warmth and brightness. Dark wood beams span the ceiling and grace the room with a sense of informal coziness. Sliding glass doors open to a large, covered, lighted deck.

In one corner of the family room find a charming, curved brick fireplace. Continue forward, step up to a hall that leads in three directions.

To the left find a large, sequestered master suite complete with large dressing area. Its full bath boasts a separate shower.

Continue down a long hall and find two large bedrooms connected by a full bath.

Back to the foyer. Climb the winding staircase and find two bedrooms, a full bath and a large living area that can be used as a game room, play room, hobby area or whatever the imagination deems.

Other amenities in this five-bedroom, four-bath include security system, humidifier, sprinkler, ceiling fans, outside storage and parking pad.

The home is being offered by Langston Realtors for \$325,000.



COVER DESIGN BY
MARY STROKER
STAFF ARTIST

OCT 18 1992

A happy Halloween for you and your home

It's that time of year again. A time for ghosts, goblins, jack-o-lanterns, haunted houses...and vandalism. Yes, vandalism. For many communities, unfortunately, Halloween is more of a time for tricks on home and property than for treats. "As a property owner you can take steps to help keep your home safe from mischievous pranksters," said Pat Paxton, president of the Midland Association of Realtors. The following tips are suggested by the Midland Association of Realtors for keeping your home and property safe from vandals on Halloween.

Before the "bewitching hour" approaches, cut your lawn and trim your hedges, particularly those that may obscure your view of the property from inside the house. A well-cared for home

will discourage would-be vandals; an ill-kept home is an invitation to trouble.

Keep your yard and porch



Paxton

free of such items as lawn mowers, hoses, outdoor furniture, barbecue grills and other items that might be tempting to vandals. Removing these items from the path of trick-or-treaters

also ensures that youngsters will not be hurt by tripping over an object they did not see in the dark or because they were wearing a costume mask. Also, put your garbage cans away or out of sight.

Park your car in a garage, if possible. If not make sure the car is locked and parked in a well-lighted area. Do not leave packages or other valuables on the seats in plain sight of passers-by. Also lock tool sheds and other outdoor storage facilities.

Illuminate your property with whatever outdoor lighting you have—porch or patio lights, garage lights and lawn lights. Leave lights on inside your home as well. Ask your neighbors to do the same for their property. Pranksters cruising an area in a car are more likely to

avoid a neighborhood that is well-lit. Check city street lights several weeks before Halloween and report any lights that need replacing.

Plan to be home on Halloween, if possible. If you must be away, ask a friend to "house-sit." If you are planning to offer treats to costumed children use common sense when opening your door. Do not invite trick-or-treaters into your home unless you recognize them as neighborhood children.

Support community-sponsored approved trick-or-treat times during daylight or dusk hours and ask concerned adults in the area to accompany children on their treks. The presence of responsible adults will minimize harmful pranks. Determine if there are

Halloween parties being planned for neighborhood youth by area churches, schools or civic groups. Volunteer to help promote and supervise these programs. A well-planned and fun activity will leave less time for random vandalism.

Finally, if you don't have a neighborhood watch program in place, now is an ideal time to organize one. Contact your local police department for information.

If in the unfortunate event your home is vandalized, report it immediately to the police. Unreported crime, quite simply, eliminates any chance of the vandals being caught and retribution being made.

"By following these suggestions, you will decrease the risk of

vandalism to your home and property, thereby keeping your neighborhood safe for trick-or-treaters," said Paxton. The Midland Association of Realtors would like to wish you, and your home, a safe and happy Halloween!

Pat Paxton is president of the Midland Association of Realtors, one of more than 1,800 local boards and associations of Realtors nationwide that comprise the National Association of Realtors. As the nation's largest trade association, NAR is "The Voice for Real Estate," representing nearly 750,000 members involved in all aspects of the real estate industry.

ERA John Muldrow Realtors staff members complete real estate

Sharon Allison, Stephen Ables and Mark Nichols, staff personnel for ERA John Muldrow, Realtors have successfully completed the ERA Real Estate training program known as the "ERA Real Estate Sales System," said John Muldrow, Broker of ERA John Muldrow, Realtors.

As staff of ERA Real Estate, these young men and women have been trained to help consumers benefit from a variety of ERA Real Estate products and services, said Brad Barlow, ERA West Texas District Trainer. These include home protection plans for both buyers and sellers - the Seller Security Plan (a guaranteed sale,

equity advance program) relocation services and financial counseling.

We're extremely proud that this many staff personnel have completed this curriculum and look forward to all of them becoming Licensed Real Estate Professionals in the very near future, Muldrow said.

ERA John Muldrow Realtors is a member of ERA Real Estate, based in Overland Park, Kansas. ERA Real Estate is the Nation's second largest real estate franchise organization with 3,300 offices in the United States and more than 500 offices in Australia, Japan and Singapore.



(L to R) Carolyn Boyd, Greg Frazier and Marilyn Wier discuss plans for the Fairmont Park addition. The three call Fairmont Park "Midland's best kept secret!"

Midland builder wants to provide opportunity for home ownership

The dream of owning a new home can still be a reality for the average Midland family, according to builder and developer Greg Frazier.

One of his objectives is to provide the opportunity of home ownership for people who may have thought owning a quality-built home was out of their reach.

Frazier purchased the Fairmont Park subdivision in west Midland three years ago. "Fairmont Park is 'Midland's best kept secret,'" he said. About 40 homes have been built in the subdivision since then. An additional 150 lots remain. Frazier plans to build homes on the lots ranging in size from 1,500 to 2,500 sq. ft. for under \$49 per foot with features one might expect to find in more expensive homes. Teaming up with Frazier to help Midlander's achieve home ownership are Carolyn Boyd and Marilyn Wier of Re/Max.

Fairmont Park is a good location for many reasons, Frazier said. One is the price of the lots. They are priced between \$10,000 and \$12,000 each, he said. At these affordable prices, individuals who want to move up can afford more amenities for their money, he added.

"Location is also an advantage," Boyd pointed out. With Bush Elementary and Abell Junior High within walking distance, the area is sure to appeal to families with children. High schoolers who live in the area attend Lee. The subdivision also is very accessible to Loop 250, Boyd said.

"It's convenient, yet private," Wier added. Every street dead ends in a cul-de-sac. The area is also very well-

maintained and is designed with lovely Essex Park as a central gathering point for walkers, joggers and children in the subdivision. "The pride residents of the subdivision feel about their neighborhood is very apparent," Wier said.

"There's a myth that it can't be done," Wier said. "But buying a new home may actually be easier than buying an existing home."

"We will work within the individuals budget to get the home they want," Frazier said. "Something we want to make people aware of is the incentives offered through the Mortgage Credit Certificate Program," Frazier added.

"A Mortgage Credit Certificate provides that a holder receives a direct credit and a tax savings equal to 20% of the interest paid on your mortgage loan," Frazier explained. "The credit is a direct reduction of taxes or an increase in your refund. The credit applies as long as you own and occupy your home."

The Mortgage Credit Certificate program is open to individuals or families who meet income and house purchase requirements and who have not owned their home for the past 3 years.

Plans are under way to construct a model home in Fairmont Park which will be ready for inspection by the public by Jan. 1, 1993.

To get a first hand look at the lifestyle available in Fairmont park, Boyd suggests a visit to one of the existing homes in the area. 3603 Crestmont will be open from 3 to 5 Sunday.

TELEPHONE SKILLS WORKSHOP



Eileen Shenker has been a professional telemarketing and customer service representative for the past 15 years.

- Enhance customer service
- Build your company image
- Increase your sales

Everyone who comes in contact with your customers on the telephone will benefit from this upbeat program. Your staff will learn how vital they are in promoting a good company image, how to make your customers feel important, and how to increase sales.

Eileen's Workshop will cover:

1. Promoting a positive company image and first impressions
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3. Answering, screening and transferring calls
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5. Body language
6. Listening and focusing skills

Two identical sessions on

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9 a.m. to 11 a.m. or 1:00 p.m. to 3:00 p.m.

Midland Hilton
117 W. Wall Ave.

Refreshments

Door Prizes

Seating is limited, so register early.

Begin a career in real estate

Considering making a career change? Many professional people have returned to school to obtain their real estate license. There are several real estate schools in Texas and most colleges offer courses as well. Here are the requirements in obtaining a salesman's license in Texas:

First, you should be selective in finding a suitable broker to sponsor you. Through research and references determine the names of brokers whose business seems stable and successful and that could offer you the best future. Be selective, the broker will help you file an application with the Texas Real Estate Commission.

There are personal requirements to be met to obtain a license in Texas. The applicant must be 18 years old, a Texas resident for at least 60 days and a U.S. citizen or

legally admitted alien.

Education is of the utmost importance, and Texas requires extensive real estate courses. All educational requirements are expressed in semester hours or their equivalent. A semester hour equals 15 clock or classroom hours. For example, a requirement of 12 semester hours is equivalent to 180 clock hours.

The educational requirement for filing for a Salesman license in Texas is 12 semester (180 classroom) hours. A minimum of 2 semester (30 classroom) hours must be completed in a principles of real estate course. The remaining 6 semester (90 classroom) hours will be completed in core real estate courses. CORE REAL ESTATE COURSES - Courses of study required to receive your salesman license include but are not limited to the following: Principles of Real

Estate, Real Estate Appraisal, Real Estate Law, Real Estate Marketing, Real Estate Investments, Real Estate Brokerage, Real Estate Law-Contracts, Real Estate Management, Real Estate Mathematics and Real Estate Finance.

To receive your license you must make an acceptable score on the real estate exam. The exam has four sections containing 20 questions each. The four sections are: real estate license act; real estate practice; real estate economics; and estates, title and transfer. You must score 75% or better on every section to pass the exam.

Good luck!

(This column was provided by ReMax of Texas and its affiliates)

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Open 7 days a week

570 Oil Supply EQUIP

Trico Industries has the Reducers for sale. Materials are F.O.B. Ft. Worth, Texas.
8 ea. Model C-114-D units.
PRICE EACH \$5,500.00
1 ea. Model C-160-D pumping unit.
PRICE \$6,500.00
1 ea. Model C-160-D pumping unit.
PRICE \$7,000.00
53 ea. 114,000 inch reduction gear box.
PRICE EACH \$1,550.00
26 ea. 160,000 inch reduction gear box.
PRICE EACH \$2,425.00
10 ea. 228,000 inch reduction gear box.
PRICE EACH \$2,675.00
*Price does not include applicable.

For further information call (918) 258-1108 or FAX

500 Pets Supply

SHIH-TZU Puppies, AKC terrier, born September 13, 2000. Call 687-6844.
*** ★ ★ ★ ★ ★ ***
LOW cost neutering available. Call 689-0999, leave message. Midland Animal Control. Midland S.P.C.A. have dogs & cats ready for adoption. *** ★ ★ ★ ★ ★ ***

505 Livestock and Poultry

HORSE BOARDING: great hay twice a day. Tack, telephone, arena. No area. 694-4978.

HORSE BOARDING: Great area, hay and grain twice daily. Lighted arena on grounds. 685-3532 after 6.

BAY, 5 year old Registered Quarter Horse. Would make a great ranch horse. Will sell for \$1,000. Call 684-8527 after 5.

TWO FAT BLACK Calves for sale. Call 682-4495.

16 YEAR OLD Quarter registered, gelded, headstall to rope \$1,000 firm. 7 y.o. Quarter Horse, registered excellent blood line \$1,500. 7 year old Paint, gentle, good kid's horse \$975-5371.

CALVES FOR SALE - Top Will deliver. Call 563-1919.

NORTHWEST MIDLAND facility 1 1/2 acres, 4 stalls with 40' runs, tack room, fence, new water pump, grass. Call 684-0800.

510 Office Supply

LARGE CASH/ WRAP DE coordinating cabinet. Excellent condition. Decorator appearance. Original cost \$4,500 - \$5,500. Skibell's - 915-694-4444.

LOOK LOOK LOOK, Good Equipment, 570-GOOL, built, used copiers, start \$395 up. Used rebuilt IBM typewriters with correction interface, \$495. 683-8787 for Joe Gool.

OFFICE EQUIPMENT: room chairs, account card drawer horizontal file, IBM typewriters, table top erator, ornamental lamp, scope, surgical microscope, thalamic instruments, instruments, autoclave, etc. 682-5723.

OFFICE FURNITURE for Desk & Credenza, 3 chair writer, 1 18" x 18" iron. 682-7749 after 7 PM.

OAK VENEER CONFERENCE TABLE, 48" round with base, \$150. Call 682-7272.

SHARP FAX MACHINE. New per and power booster. Under one month. Good. 694-7209.

USED & NEW OFFICE furniture. Clearances. Desks, chairs, files, map cabinets. Priced to sell. The Paper. 1201 S. Big Spring. 682-1201.

WALNUT, LARGE TOP desk & credenza with \$600. Large storage \$100. See at 300 W. Texas. 104. 683-8181.

550 Port Bulk

Portable storage built. Used priced. 563-0000. Will move. 563-0000.

We Move, buy, sell, or portable buildings. MORGAN 563-1860.

ONLY \$255. 8 x 10 storage. Morgan. 563-1807.

RETURN FROM LEASE. and office type building. 563-1807.

560 Mech and

1982 GMC pickup, 1977 truck with 45' boom, Ditch equipped with backhoe, & A. Welders or call 687-0636, 559-4167.

FOR SALE: Structural pipe of all sizes at bargain prices. Call 682-1546.

90W GEAR OIL on week. Also have other oil. Call 683-3160.

WANT TO BUY: Pipe or rods. 684-6405.

615	615	610	610	610	610	610	610	610	610
Apartment Furn. & Unfurn.	Apartment Furn. & Unfurn.	Apartment Unfurnished	Apartment Unfurnished	Apartment Unfurnished	Apartment Unfurnished	Apartment Unfurnished	Apartment Unfurnished	Apartment Unfurnished	Apartment Unfurnished

FAST • FREE • RELIABLE

Dane Kelly Apartment Placement Service
has all the specials,
Save Time & Money!

Willie Dean Berry
687-2384 • 694-8956 Eves.
Open 7 days a week • 2302 W. Wadley

570	570
Oilfield Supplies	Oilfield Supplies

EQUIPMENT FOR SALE

Trico Industries has the following complete Pumping Units and Gear Reducers for sale. Material is new and sold on a as-is basis. All prices are F.O.B. Ft. Worth, Texas.

8 ea. Model C-114-D143-64 wide base, multi cylinder pumping units.
PRICE EACH \$5,500.00*

1 ea. Model C-160-D143-64 wide base, high prime electric pumping unit.
PRICE \$6,500.00*

1 ea. Model C-160-D173-74 "T" base high prime electric pumping unit.
PRICE \$7,000.00*

53 ea. 114,000 inch-lb. peak torque heavy duty helical double reduction gear box built in accordance with API Standards.
PRICE EACH \$1,550.00

26 ea. 160,000 inch-lb. peak torque heavy duty helical double reduction gear box built in accordance with API Standards.
PRICE EACH \$2,425.00

10 ea. 228,000 inch-lb. peak torque heavy duty helical double reduction gear box built in accordance with API Standards.
PRICE EACH \$2,675.00

*Price does not include prime mover, weights, or taxes where applicable.

For further information please contact Mayo McKnight at phone (918) 258-1108 or FAX (918) 251-2608.

500	Pets and Supplies
-----	----------------------

SHIH-TZU. Puppies, AKC registered, born September 13, 1992. \$200. Call 687-6847.

LOW cost neutering available. Call 689-0999, leave message. Midland Animal Control and Midland S.P.C.A. have many dogs & cats ready for adoption. 694-0236.

505	Livestock and Poultry
-----	--------------------------

HORSE BOARDING: grain and hay twice a day. Tack closets, telephone, arena. Northwest area. 694-4978.

HORSE BOARDING: Greenwood area, hay and grain twice a day. Lighted arena on grounds. 685-3532 after 5.

BAY 3 year old Registered Quarter Horse. Would make good ranch horse. Will sell for \$1,000. Call 684-8327 after 5.

TWO FAT BLACK Calves for sale cheap. Call 682-4495.

16 YEAR OLD Quarter Horse, registered, gelded, ready to rope \$1,000 firm. 7 year old Quarter Horse, registered more, excellent blood line \$1,500 negotiable. 7 year old Paint, gelded, gentle, good kid's horse \$1,200. 697-3371.

CALVES FOR SALE - Top quality. Will deliver. Call 563-1998.

NORTHWEST MIDLAND, horse facility 1 1/2 acres, 4 stall barn with 40' runs, tack room, new fences, new water pump, good grass. Call 684-0800

510	Office Supplies
-----	-----------------

LARGE CASH/ WRAP DESK and coordinating cabinet. Excellent condition. Decorator appearance. Original cost \$4,500 - Must sell \$950. Skibell's - 915-694-8861.

LOOK LOOK LOOK, Gool Office Equipment, 570-GOOL. Has rebuilt, used copiers starting at \$395 up. Used rebuilt IBM Selectric typewriters with correction, \$350. One IBM Quietwriter model 47 with spell check and computer interface, \$495. 683-8774 ask for Joe Gool.

OFFICE EQUIPMENT - waiting room chairs, account card files, 4 drawer horizontal file cabinets, IBM typewriters, table top refrigerator, ornamental lamp, microscope, surgical microscope, ophthalmic instruments, surgical instruments, autoclave, canister, trays. 682-5723.

OFFICE FURNITURE for sale. 1 Desk & Credenza, 3 chairs, typewriter. 1 18" x 18" frig. Call 682-7749 after 7 PM.

OAK VENEER CONFERENCE TABLE, 48" round chrome base. \$150. Call 682-7258.

SHARP FAX MACHINE with paper and power booster. Used less than one month. Good price. 694-7209.

USED & NEW OFFICE furniture. Clearance sale. 500-1807. chairs, files, map cabinets etc. Priced to sell. The Paper Clip 1201 S. Big Spring. 682-5251.

WALNUT, LARGE TOP executive desk & credenza with chair, \$600. Large storage cabinet \$100. See at 300 W. Texas room 104. 683-8181.

550	Portable Buildings
-----	-----------------------

Portable storage buildings. Used priced. 563-0022. Will move. 563-0022.

We Move, buy, sell, and rent portable buildings. MORGAN 563-1860

ONLY \$255. 8 x 10 storage building. Morgan 563-1807.

RETURN FROM LEASE, storage and office type buildings. Morgan 563-1807.

560	Machinery and Tools
-----	------------------------

1982 GMC pickup, 1973 Bucket Truck with 45' boom, Ditch Witch, equipped with backhoe. See at A & A Welders or call 682-8528.

LIFTALL FORKTRUCK, 10,000 lb. capacity, K-D Forklift, 8,000 lb. capacity, Gooseneck Forklift trailer, 915-655-5702.

570	Oilfield Supplies
-----	----------------------

LUKIN 228-246-86, 500 BBL fiberglass tank, 8 1/2 x 10 oja. Call 683-3033.

FOR SALE, oilfield electric motors. Rebuilt with guarantee from 5 horsepower 1,200-1,800 RPM. 685-0636, 559-4167, 682-1546.

FOR SALE, Structural rods and pipe of all sizes at bargain prices. Call 682-1546.

90W GEAR OIL on sale this week. Also have other lubricants. Call 683-3160.

WANT TO BUY: Pipe and sucker rods. 684-6405.

Midland Apartments
At A Glance!

570

**Oilfield
Supplies**

FOR SALE

complete Pumping Units and Gear
and sold on a as-is basis. All prices

wide base, multi cylinder pumping

wide base, high prime electric

"T" base high prime electric

torque heavy duty helical double
accordance with API Standards.

torque heavy duty helical double
accordance with API Standards.

torque heavy duty helical double
accordance with API Standards.

motor, weights, or taxes where

contact Maya McKnight at phone
51-2608.

FOR SALE: ¾ ton pick-up and
gooseneck pipe trailer. 684-6405.

FOR SALE Complete sand blasting
unit including Ingersoll - Rand

ASHTON WAY

CANYON CREEK

CHATEAU

FAIRMONT

HUNTERS RIDGE

SADDLE CLUB

SANDSTONE

QUINTEN'S WALK

WINDSOR PLACE

EMERALD TERRACE

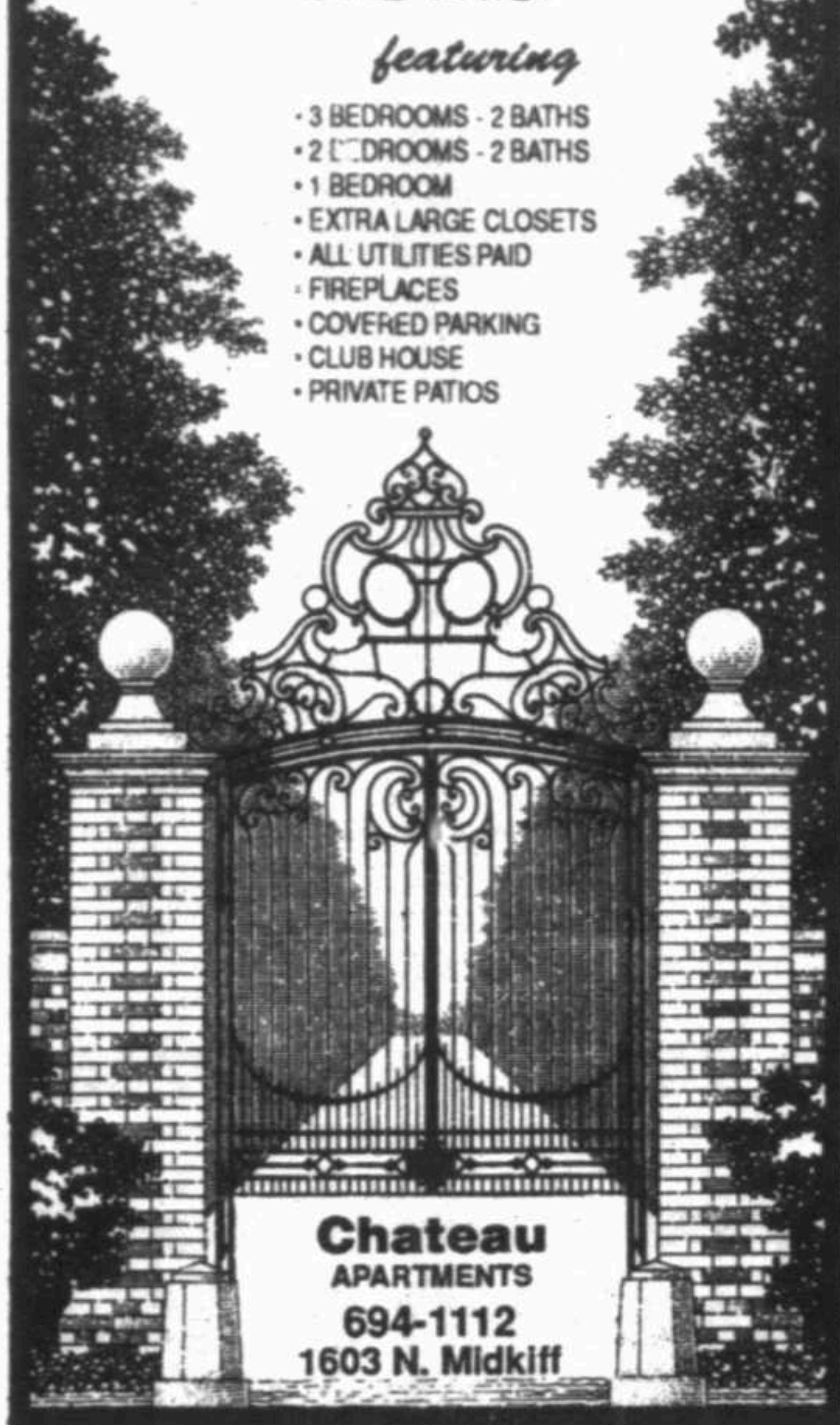
What A Deal!

RELAX NOW AT CHATEAU APARTMENTS

...Where your rent includes your electricity & basic cable TV. CAN YOU BEAT A DEAL LIKE THIS!

featuring

- 3 BEDROOMS - 2 BATHS
- 2 CLOTHES - 2 BATHS
- 1 BEDROOM
- EXTRA LARGE CLOSETS
- ALL UTILITIES PAID
- FIREPLACES
- COVERED PARKING
- CLUB HOUSE
- PRIVATE PATIOS



APARTMENT HOMES WITH Quiet Courtyard Atmosphere And More...

- COVERED PARKING
- 12 & 3 BEDROOMS
- FIREPLACES IN SOME
- WALK-IN CLOSETS
- LARGE SPACIOUS UNITS
- SWIMMING POOL
- VOLLEYBALL COURT
- FROST FREE REFRIGERATOR
- ON SITE MANAGEMENT

WINDSOR PLACE APARTMENTS

694-6696
1801 N. MIDLAND DRIVE

WE CARE
CLUB
REALLY
EVERYTHING

Professionally Managed by
SHE LEWIS & ASSOCIATES, INC., AMO
property management company

Hunter's Ridge

LIVE AT HUNTER'S RIDGE

And enjoy all the comforts of home, sports amenities, and beautiful grounds to take those early morning or evening walks.

1-Bedroom \$174. (unfurnished)
\$75 Deposit. Limited Time Only.

HUNTER'S RIDGE APARTMENT
4201 Andrews Highway Midland, Texas
520-0023

Tired of Searching High and Low for The Perfect Apartment

YOUR SEARCH HAS COME TO AN END

TRELLIS Apartments

Call 697-0177
For Further Details
3212 Wadley

TRINITY PLACE
Offers quiet, enjoyable living
SENIOR CITIZEN DISCOUNTS
Covered Parking,
Washer/Dryer
Connections, Large Patios.
For Special Offer 697-3157

610 Apartments Unfurnished

FOR RENT: 3 bedroom, 2 bath, 1,300 sq. ft. Microwave, dishwasher, mini-blinds, wet bar, washer/dryer connections. Covered patio plus carport. Duck pond, swimming pool and tennis courts. 2433 Whitmer Blvd. 683-9776.

3 BEDROOM, 3 bath, \$450 month, deposit. Lease. Open Saturday - Sunday, 504 E. Broadway. 686-9482.

4808 A Country Club - 1 bedroom duplex, refrigerated air. Appliances. \$265/month. Williams & Assoc. 694-9663.

LARGE, lovely, 2 story, 3 bedrooms, 2 1/2 baths, landscaping, lots new, 1 year lease, \$850/month, \$400 deposit. After 5:30. 694-5734.

1408 SPARKS (near Golf Course and Garfield), 3 - 2 - 2, fireplace, central air, 2 living, laundryroom, fenced, yard well, \$695 monthly, 915-687-5856.

FOR LEASE: 2 bedroom, 2 bath duplex with garage. Call after 6 pm. 694-4899.

BACK ON THE MARKET - tenants transferred from "big old country house in the city", 3 bedrooms, 2 bath, 2 living areas, fireplace, dishwasher, disposal, Range and Oven, ceiling fans, jacuzzi, large patio deck and fish pond. \$495 plus \$295 deposit. 686-7932.

LEASE WESTSIDE - 2 bedroom with den, stove and refrigerator. Prefer mature non-smoking tenant. \$300 monthly. \$250 security deposit. 689-3508 or 683-1835.

HOUSE & DUPLEX - 2 bedroom, 3008 Franklin. \$275/month. 1123 B Carrizo. - \$235/month. Williams & Assoc. 694-9663.

2 BEDROOM, 1 bath, single garage, fenced. 3403 Park Ln. \$350 monthly, \$200 deposit. 694-7924.

4319 PRINCETON - 3 bedrooms, 1 bath, 1 car, central air, \$400 monthly plus deposit. Open House. Saturday, Sunday 10-4.

3414 BEDFORD, 3 bedroom, 2 bath, central heat and air, fenced yard. \$550. References. 689-7331.

LUXURY DUPLEX UNIT - 3 bedrooms, 2 bath, drive by 4705 A-Dentcrest then call 520-7912 for appointment. \$675/month.

640 Condos and Townhouses Unfurnished

SPACIOUS TWO bedroom, 1 1/2 bath townhouse. \$330 monthly. Westpark Apartments. 2928 West Louisiana.

FAIRGATE TOWNHOMES - 2 and 3 bedrooms, 1,620 sq. ft. livable, ceiling fans, fireplace, appliances furnished, garage. Northwest Side. 697-9566.

BEAUTIFUL TOWNHOME, 2 bedroom, 2 bath, gas water paid, pool, \$475. Jeanine Printz/agent. 699-5636.

THE FIVE STARS OF MIDLAND Luxury. Value. 3BR... 1,390-1,650... \$620-\$740 2BR... 950-1,540... \$545-\$685 1BR... 616-1,050... \$240-\$495 Efficiency... 616... \$240-\$260 Pool, wet bar, F/P, microwave, ceiling fans, also w/d, garage. Furnished carpet available. 689-8116 or 697-9768

625 Houses Unfurnished

FOR RENT: 3 bedroom, 2 bath, 1,300 sq. ft. Microwave, dishwasher, mini-blinds, wet bar, washer/dryer connections. Covered patio plus carport. Duck pond, swimming pool and tennis courts. 2433 Whitmer Blvd. 683-9776.

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BACK ON THE MARKET - tenants transferred from "big old country house in the city", 3 bedrooms, 2 bath, 2 living areas, fireplace, dishwasher, disposal, Range and Oven, ceiling fans, jacuzzi, large patio deck and fish pond. \$495 plus \$295 deposit. 686-7932.

LEASE WESTSIDE - 2 bedroom with den, stove and refrigerator. Prefer mature non-smoking tenant. \$300 monthly. \$250 security deposit. 689-3508 or 683-1835.

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710 Open Houses

OPEN 2-6PM

Lowest Priced 4 bedroom home Listed in Skyline \$84,500!

Owner transferred - must sell 4 bedrooms, 3 full bath Great kitchen overlooking lushly landscaped front yard. sec. master bedroom has 2 large walk-in closets! And much more don't miss this home!

SHARON CROUCH
Langston Realtors 685-0400

OPEN SUNDAY 2-4 PM
4315 BOULDER \$83,500
3 BR, 2 BA, 2 CG, Formal Dining & Fresh Paint
Shown by Sandra McGill, CRS, GRI
RE/MAX
"100.00 in Lottery Tickets"
Buyer to receive \$100.00 in Lottery Tickets if closing if they have attended this open house and signed in.

A Classified Consultant is ready to answer your call
682-6222

670 Warehouse and Storage Rental

* CRESCENT STORAGE *
10 x 20, 10 x 12 & 10 x 10, units from \$45-\$58
OFFICE and warehouse combination. 1200 - 2000 - 4000 - 4800 - 7000 - 8600 square feet. Some with fenced yards. 683-6927.

665 Business Property / Offices

1115 ANDREWS HWY. Newly Carpeted 4 or 6 offices and/or Various Size Suites Available Now
CALL 682-5305

OFFICE SPACES. Northland Shopping Center. Call 806-744-4505.

YOGURT and snack shop for lease, most equipment provided, good location. 806-744-4505.

30 x 90 WAREHOUSE with office, 2150 Warehouse road, \$400/month plus deposit. 520-8425.

OFFICE and rental space available at Mission square at a rate you can afford to pay. Call Jan Melton. 682-8820.

OFFICE SPACE AVAILABLE near courthouse. 1 to 4 room suites to fit your needs. 683-4641.

OFFICE SPACE FOR RENT IN THE RRC BUILDING 2509 North Big Spring From 220-1,561 Sq. ft. available. Rent as low as \$4.75/NSF/YEAR
Call Bobby at 682-3141 or John at 683-3363

INVESTORS SPECIAL. Buy and lease back small office building at 306 E. Illinois (one block East of Reporter-Telegram) 682-0470. Robles Real Estate - Owner. Brokers Welcome.

OFFICE SPACE for lease. Various sizes, built-in kitchen, great working environment. 2500 Big Spring. 685-6095. 520-0315.

903 S. MIDKIFF. Retail location in good locale. Call Bida Property Management. 335-3409.

ONE ROOM OFFICE, 700 Midland Executive Center, contact Beverly Vaughan. 686-2008.

RETAIL/ OFFICE. Various sizes. Fairmont Park Shopping Center, 3223 N. Midland, 1120 E. & Plaza, 206 N. Midkiff. Call 683-8681. Owner managed.

710 Open Houses

NEW LANGSTON LISTINGS
SADDLE CLUB SOUTH
OPEN 2-4 SUNDAY

4908 HEATHER
Spacious and gorgeous, this four bedroom, four bathroom, two and one-half living area home is perfect for comfortable family living or entertaining. Formal dining, two fireplaces, fantastic kitchen. It's probably your dream home - Don't miss this Sunday opportunity to see it!
Shown by Karen Mason 687-5806

1302 DAVENTRY - \$179,900
Shown by: Wilson Korona - 570-840
Stunning one owner custom home offering over 3800 square feet of luxurious living. Four bedroom, 3 1/2 baths, hardwood floors and so much more!
Listed by Melissa Herndon

OPEN HOUSE
Saturday and Sunday 2-5

5612 Drexel Court Grassland Estates
Shown by Nancy Kilgore
Coldwell Banker Americana Realty
689-7700 or 684-9077

Open Everyday until Dark
3317 WHITTE WAY (in Fairmont Park)
Come see our GORGEOUS new 3 bedroom, 2 bath with the "Light - Bright" look
KEY HOMES, INC. 520-9848

TRADE
your home for a new custom home from KEY HOMES, INC. 520-9848

4905 CONCHO
2 - 4
Extraordinary home in Northgate. High ceiling and skylights in living. Sitting area in master. Lush landscaping with sprinkler system. Come see it yourself.

62,500
Shown by K. C. Offield
Don Harvey Realtors 683-5333

TOWN HOUSE OWNER
1 - 4
Enjoy the cozy fireplace in this clean 3 bedroom, 2 1/2 bath, 2 car garage, enclosed hot tub, plus numerous custom amenities in quiet area. 694-5311

4607 SEQUOIA
4 bedroom, 3 bath
3 living area
\$187,500
Century 21 Midtex 689-0021

3704 So. Co. Rd. 1316
Large, beautiful home in Richwood addition, 3 bedrooms, 4 baths, huge game room with hot tub, formal dining, atrium, 3 living areas, 85 acres.
Shown by WANDA CHASTAIN 682-4002.
Century 21/ Midtex 689-0021

2105 WOODLAWN
2 to 4
You are invited to see one of Midland's prettiest homes, 4 bedrooms in 1 1/2 lots with 17 gorgeous trees.
REDUCED \$119,900
Shown by BILLIE PERRY 694-1886 or 682-8820

4112 RADCLIFF
Dene Kelly Realtors 687-0595

3205 ELMA
2 - 5 pm
\$64,900
Large, luxurious furnished model townhome - various floor plans. 3 bedroom, 2 1/2 bath, double garage starting \$62,600; 2 bedroom, 2 1/2 bath, double garage starting \$54,900 (Lemonwood Gardens Townhomes).
Directions - Turn East on Wadley off Loop 250E, turn South on Dentcrest, left on Aspen, left on Elma.

2804 MARMON
Open all day
Saturday & Sunday
ONLY \$108,000
4 bedroom, 4 bath, new carpet, lots of sq. ft.

KAREN CZECH
The Prudential-Adams Realtors 694-9548 685-4028

710 Open Houses

4908 HEATHER
Spacious and gorgeous, this four bedroom, four bathroom, two and one-half living area home is perfect for comfortable family living or entertaining. Formal dining, two fireplaces, fantastic kitchen. It's probably your dream home - Don't miss this Sunday opportunity to see it!
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your home for a new custom home from KEY HOMES, INC. 520-9848

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62,500
Shown by K. C. Offield
Don Harvey Realtors 683-5333

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Enjoy the cozy fireplace in this clean 3 bedroom, 2 1/2 bath, 2 car garage, enclosed hot tub, plus numerous custom amenities in quiet area. 694-5311

4607 SEQUOIA
4 bedroom, 3 bath
3 living area
\$187,500
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3704 So. Co. Rd. 1316
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Century 21/ Midtex 689-0021

2105 WOODLAWN
2 to 4
You are invited to see one of Midland's prettiest homes, 4 bedrooms in 1 1/2 lots with 17 gorgeous trees.
REDUCED \$119,900
Shown by BILLIE PERRY 694-1886 or 682-8820

4112 RADCLIFF
Dene Kelly Realtors 687-0595

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2 - 5 pm
\$64,900
Large, luxurious furnished model townhome - various floor plans. 3 bedroom, 2 1/2 bath, double garage starting \$62,600; 2 bedroom, 2 1/2 bath, double garage starting \$54,900 (Lemonwood Gardens Townhomes).
Directions - Turn East on Wadley off Loop 250E, turn South on Dentcrest, left on Aspen, left on Elma.

2804 MARMON
Open all day
Saturday & Sunday
ONLY \$108,000
4 bedroom, 4 bath, new carpet, lots of sq. ft.

KAREN CZECH
The Prudential-Adams Realtors 694-9548 685-4028

720 Homes For Sale

Clean, neat and cute starter home, qualifying assumption \$21,500

Wonderful family home, Walking distance to school. 3 living areas, 4 bedroom, sequestered master. Lots of custom built-ins \$123,500

4 bedroom, 2 1/2 baths, 2 living areas, fireplace, 3 car garage. Lots of space. \$44,000

CALL JOYCE OR RAY SMITH
TIERRA REALTORS 682-8818

Just Reduced
What a price! Saddle Club South. Unique floor plan includes such features as sequestered Master Bedroom, great Master Bath, fireplace surrounded by well-to-do bookcases. Breakfast Bar in kitchen overlooking a huge Living Area. Formal Dining. Low price plus all these features make this home a MUST to see.

Sparkles and Shines
All splited up with gorgeous wallpaper, new kitchen floor, luxurious carpet, formal dining with wood parquet floor and windows, windows. Huge kitchen with eating area and tons of cabinets plus pantry. Wood Parquet in entry hall to huge sunken living area with fireplace & built-in bookcases. Located in Northmen on quiet cul-de-sac. Call me to see this lovely home. You'll be glad you did.

LOCKHEED-SPACE GALORE!
All the rooms in this lovely home are huge, 2 dining, 2 living plus study, 4 bedrooms, 2 car garage and priced at only \$86,500! Call Betty Ford, Carriage Co. Realtors 684-4177 or 684-5881.

3900 WESTMINSTER
\$96,900
4 bedroom, 2 living area, 2 bathrooms, 2 car garage
2 - 4
Shown by Carol Fuller
Century 21 Midtex 699-0008 689

3405 HUMBLE
3 bedrooms, 2 bath, desirable neighborhood, walk to Lee High. Seller has HAA warranty. Seller is anxious. Bring offers.

CHAPARRAL REALTORS
686-7000
JODY SMITH 694-9426

706 W. SPRUCE
330 - 3400
Large workshop, 3 br, 2 ba, 2 living areas, lots of square footage here!
Shown by LINDA NATHERN 2607 SPARTAN

Fannin area, 3 br, 2 ba, 2 living areas, carpet allowance.
Shown by JOE NOBLES 4602 GLENDALES

Fairmont Park, 3 br, 2 ba, immaculate home, beautiful wood appointments, deck, new vinyl just installed.
Shown by DEBORAH PIERCE 3400 EDMONT

PRICE REDUCED, Fairmont Park, lovely 4 br, 2 ba, formal dining, window pane paneling in den, 5 ceiling fans, skylights in sequestered master, flooded attic for storage. See High school district.
Shown by JODY SMITH 3405 HUMBLE

Lee High school area, very comfortable, 3 br, 2 ba, brick home, good floor plan. Seller has HAA Warranty.
Shown by JODY SMITH 3213 SINCLAIR

Mamar beauty. Owner has slashed the price, come see for yourself. 3 br, formal, gorgeous yard.
Shown by NORMA PINE 4000 COMPTON

Impressive townhouse, huge master bedroom, lovely private courtyard.
Shown by JILL PERKINS 684-5881

3306 CIMMARON
\$64,000
Immaculate, 3 bdrm, 2 bath, great trees/ work shop.
Shown by LEE C. CULVER 697-8388

720 Homes For Sale

Clean, neat and cute starter home, qualifying assumption \$21,500

Wonderful family home, Walking distance to school. 3 living areas, 4 bedroom, sequestered master. Lots of custom built-ins \$123,500

4 bedroom, 2 1/2 baths, 2 living areas, fireplace, 3 car garage. Lots of space. \$44,000

CALL JOYCE OR RAY SMITH
TIERRA REALTORS 682-8818

Just Reduced
What a price! Saddle Club South. Unique floor plan includes such features as sequestered Master Bedroom, great Master Bath, fireplace surrounded by well-to-do bookcases. Breakfast Bar in kitchen overlooking a huge Living Area. Formal Dining. Low price plus all these features make this home a MUST to see.

Sparkles and Shines
All splited up with gorgeous wallpaper, new kitchen floor, luxurious carpet, formal dining with wood parquet floor and windows, windows. Huge kitchen with eating area and tons of cabinets plus pantry. Wood Parquet in entry hall to huge sunken living area with fireplace & built-in bookcases. Located in Northmen on quiet cul-de-sac. Call me to see this lovely home. You'll be glad you did.

LOCKHEED-SPACE GALORE!
All the rooms in this lovely home are huge, 2 dining, 2 living plus study, 4 bedrooms, 2 car garage and priced at only \$86,500! Call Betty Ford, Carriage Co. Realtors 684-4177 or 684-5881.

3900 WESTMINSTER
\$96,900
4 bedroom, 2 living area, 2 bathrooms, 2 car garage
2 - 4
Shown by Carol Fuller
Century 21 Midtex 699-0008 689

3405 HUMBLE
3 bedrooms, 2 bath, desirable neighborhood, walk to Lee High. Seller has HAA warranty. Seller is anxious. Bring offers.

CHAPARRAL REALTORS
686-7000
JODY SMITH 694-9426

706 W. SPRUCE
330 - 3400
Large workshop, 3 br, 2 ba, 2 living areas, lots of square footage here!
Shown by LINDA NATHERN 2607 SPARTAN

Fannin area, 3 br, 2 ba, 2 living areas, carpet allowance.
Shown by JOE NOBLES 4602 GLENDALES

Fairmont Park, 3 br, 2 ba, immaculate home, beautiful wood appointments, deck, new vinyl just installed.
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720

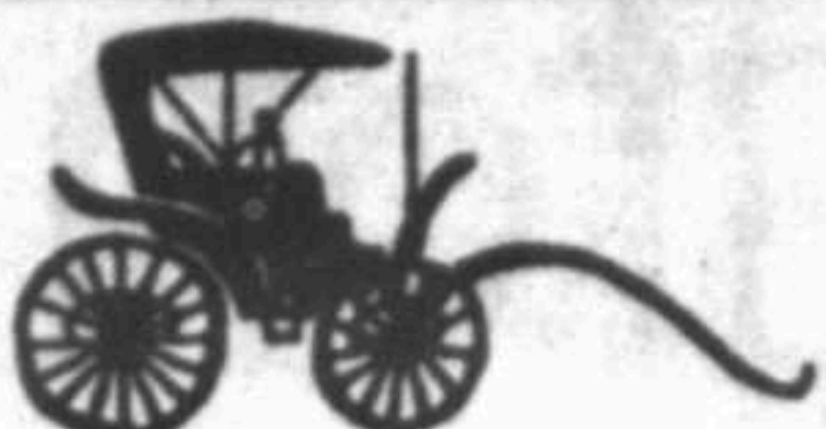
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694-6428

C.R. 1305-3 bedroom with pecan trees on 2.5 acres, A-frame home.....\$129,900
 PLEASANT-Very nice 3BR, 2LA home, 2 car garage, sprinkler.....\$49,950
 C.R. 1213-Super nice 3BR, 2LA home, owner will consider financing.....\$59,500
 WILSHIRE-Super cute 3BR, fresh paint in and out! Large patio, priced to sell.....\$32,900
 C.R. 50W-2.5 acres wisepick system & water well.....\$17,000
 C.R. 53W-Water well, 3+/- acres, owner wants out.....\$15,000
 CHSOLM-Ranger Estates, 1 acre w/building, Greenwood.....\$7900



ROY SEWELL
694-5931

SADDLE CLUB NORTH-Beautiful 4BR, 2LA home with pool & tennis court, prestigious location.....\$350,000
 STUZZ-Totally remodelled 4BR, in great neighborhood, low maintenance yard.....\$112,900
 C.R. 1083-Greenwood 3 bedroom on 34+ acres, lots of trees!.....\$95,000
 GARDEN CITY HWY-Commercial warehouse w/office, good visibility.....\$49,950
 C.R. 1050-9.73 acres in Greenwood, good farm land.....\$23,425
 C.R. 1129-Greenwood, owner will finance, 3+/- acres.....\$13,500



SUE LAENGRICH
694-6752

GREENBRIAR-A real treat awaits behind the door! 3BR, 2LA gourmet kit.....\$157,000
 PINEMONT-2 year old custom built in Fairmont Park, beautiful.....\$95,500
 BROWNWOOD-Immaculate 3 bedroom, 3 living area, huge garage, 2 story.....\$65,000
 OHIO-Immaculate 2 or 3 bedroom, huge living area, super nice.....\$44,990
 MICHIGAN-Wonderful 3BR, 2LA family home! Kt. kitchen, reduced!.....\$47,000
 GOLF COURSE-Prime lots in San Jacinto addition,.....from \$11,000 to \$19,750



JILL PERKINS
694-6904

GREENWOOD-Grazing land east of Greenwood schools, 659+/- acres.....\$194,051
 REGAL-3 bedroom with nice master suite, great Wyedwood neighborhood, will lease for \$750/mo.....\$69,500
 FAIRWAY PARK-Lots, will sell all or separately for \$1200 each.....\$57,600
 FM 715-34+/- acres on paved road in Midland county.....\$46,000
 ANETTA-Nice 3 bedroom, 2 living area w/2 car garage.....\$43,500
 C.R. 180W - 20+/- acres in Midland county.....\$42,500



CAROL HENSON

SADDLE CLUB NORTH-Unique 2 story floorplan, 5BR, 7BA, 3 car garage, amenities galore!.....\$499,000
 AINSLEE-Super family home with space! 4BR, 3LA, low maintenance yard.....\$215,000
 COMPTON-Corporate, like new 3 bedroom in Skyline, sparkles!.....\$94,500
 CIMMARON-Super family home, big trees, workshop, 2 car garage, formal dining and.....\$84,000

	ARROWHEAD-Unique 3 bedroom home with huge master, formal dining, sprinklers	\$90,750
	CLOUDCROFT-GREATLY REDUCED!! Super 3 bedroom with beautiful tile, peat-de-sac	CALL
	HUNTINGTON-Large family home, 3BR, 3LA, great buy for the area	\$75,000
	STANGLIND-REDUCED! Great 3BR, 2LA, lovely neighborhood, don't miss!	\$86,000
	WOODHILL BUILDING-Great office location, health club, racquetball, call for details.	
	HIALEAH-Incredible 5BR wipool, tennis court, beautiful decor	\$885,000
	CUTBERT-C/O Midland beauty, 5BR, 2LA, exclusive estate	\$495,000
	BUSTARD, CT-Mint condition, lots new, great location, 2 living areas, owner wants offers!	\$139,900
	CHIMMARON-Super Old Midland 3BR, 2LA with study, pool, gorgeous kitchen, only	\$119,900
	PECAN-Townhome, 3BR, 2 1/2 BA, light, bright, just move right in.	\$105,000

NEEDING IN A HAYSTACK-You've found it in this beautiful home near Midland Christian School. Spacious, open plan with 2 to 3 living areas. New carpet and vinyl, some fresh paint, and partial new fence. What a value for this area in \$50's. Please call Ruth Young at 682-7884 or 697-1217.

PERSNICKETY?-Then you will love this squeaky clean 4 bedroom, 3 bath in North Midland. Features great kitchen, cozy living area, and family neighborhood. This home reflects caring owners. Please call Ruth Young at 682-7884 or 697-1217.

BIGGER IS BETTER-In this huge home with 4 bedroom, 3 bath, and 3 living areas. There is room for a workshop in garage. Low maintenance yard with great curb appeal. For a unique living experience call Ruth Young at 682-7884 or 697-1217.

A HOME TO CHERISH-located in Old Midland this home reflects superb design and detailing. 5 spacious bedrooms and 6 baths. Lovely patio off master suite. Children's bedrooms are located upstairs. Bring the family to see this great home. Just call Ruth Young at 682-7884 or 697-1217.

WHERE THE LIVING IS EASY-Endowed with country charm. Located in Greenwood School District. You'll love this 3 bedroom, 2 bath with fireplace, 1.67 acres, nice floor plan. Owner wants offers. Please call Ruth Young at 682-7884 or 697-1217.

THREE R's-Reduced, Ready, and Really Nice. Owner has painted interior and exterior. Some new carpet and vinyl. Over-sized garage with room for workshop. Very well priced at \$49,900 for all this space. Please call Ruth Young at 682-7884 or 697-1217.

NEW LISTINGS

ONE OF PRETTIEST HOMES IN POLO PARK-Great curb appeal, beautiful landscaping, built by Foster, better than new, 4 bedroom, 3 bath, 3 car garage, tiled in high traffic areas, well decorated, lots of pizzaz. Please call Ruth Young at 682-7884 or 697-1217.

HANDMAN'S DREAM-to be sold "AS IS" condition. Owner would consider owner financing with 10,000 down. 3 bedrooms, 1 bath, 1 car garage, 1 carport. Close to downtown. Good neighborhood, a real bargain. Priced \$19,900. Please call Ruth Young at 682-7884 or 697-1217.

OPEN HOUSE 3 to 5 PM

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SELLING REAL ESTATE MIDLAND

GREENTREE NORTH \$225,000 Enchanting custom nest to peaceful pond. 4 BR's, 3 ba, 2 LA's, formal dining, gameroom, balcony, study.	GREENTREE NORTH \$109,900 Better than new! 4 BR, 4 BA, 3 LA's, 3 car garage, workshop & bath, formal dining, 3 fireplaces, garden room.
MUSEUM AREA \$169,000 Elegant associated home on 3 lots. 5 BR, 4 LA, 3 LA's, POOL, w/arcade, refinished HW floors, basement & many lovely amenities.	TRINITY MEADOWS \$169,000 Very unique custom home. HW & ceramic floors throughout. 3 BR, 4 BA, formal dining, study.
LLANO ESTACADO \$169,000 Appro 2 acres, POOL, cabana, 4 BR, 5 BA, 3 LA's, hardwood floors, Minutes from city, peace n' quiet.	ROBIN LANE \$119,000 3 BR, 3 BA, 2 LA's, Barn, tack barn, basement, 2, 37' lot.
GREENTREE \$139,900 Golf course easy living! Glistening POOL, hot tub, fantastic plant! 3 BR, 3 BA, 2 LA, formal dining.	SKYLINE TERRACE \$119,000 Gourmet kitchen, Max tile thruout! 4 BR's, 2 LA's, 3 baths, formal dining, breakfast room & sunroom.
WIDEWATER STRIP \$129,000 4 BR, 3 BA, 2 LA's, water well & city water, over 1 acre, formal dining, sprinkler system.	GREENTREE \$99,900 SUPER FLOOR PLAN! 2 separate master BR's, 5 baths, Mexican tile, huge entertaining kitchen with office/breakfast room. Will consider lease purchase.
ALPINE \$119,000 Great for Family, friends & in-laws! 3 LA's, 3 BR, POOL, complete guest house, indoor hot tub, landscaped & trees!	REDUCED! HUMBLE \$87,900 Old Midland, 3 BR, 2 LA's, fantastic condition!
NEELY \$94,900 Custom built townhome, Landscaped center courtyard, huge kitchen, 3 large BR's, 3 baths, easy-care & stunning neighborhood.	FRONTIER \$87,500 Huge master w/dressing plans close out to sparkling POOL. Great neighborhood, 4 BR, 3 baths!
TOWNHOUSE \$87,500 Easy care in Saddle Club South. Tons of storage and large windows, 2 fireplaces, 2 BR's.	VISTA WEST \$79,900 Much new throughout! Cui-de-sac 4 BR, large heated & cooled workshop, 2 baths.
ANDOVER \$82,900 Flexible huge plan! Exclnt. condition. Great Price! 3 BR, 2 baths, formal dining.	OLD MIDLAND \$69,900 Charming brick home on lovely street. Possible owner finance or lease purchase, 3 BR, 2 baths, formal dining.
SEABOARD \$69,900 Close to Lee & Pank. 3 BR, 2 BA, 2 LA's, mature trees, well maintained.	NEELY \$67,500 Custom built by Dan Dalton, 7' fence, formal dining, sunroom, 3 BR's, 3 baths, drive drive.
RUDGOS \$67,500 Super clean & well maintained, 3 BR's, 4 full baths, full c/sac, ceiling fans, ceramic tile.	NORTHGATE \$67,500 Modern plan area, 2 separate yards, 3 BR, 2 baths, fantastic cabinet apcs, sequestered master.
EDWARDS \$57,500 Fantastic condition and ready for new owner! 3 BR's, 2 baths, fireplace heatstair.	NEW SPYTING \$57,500 Ranch Estate, Low monthly pymt, 3 BR, 2 LA's, huge front & back lawn, storage house & separate yard for dogs.
NORTH "A" \$35,000 Great investment or 1st time buyer. Large yard, 2 LA's, 3 BR's, 2 baths, 2 car garage.	DUPLEX ON BENTWOOD \$49,000 1 BR unit & 2 BR unit. Stackable washer & dryer in both units. Great investment!
DEWBERRY \$31,500 Thoroughly fresh n' clean! 3 BR, 2 baths, 2 LA's. Possible lease purchase!	DEVONIAN \$29,900 3 BR's, great investment or first home, 3 BR, 2 BA.
TRAVIS \$24,900 Super clean & well kept. Large workshop, 3 BR, 2 LA's.	TRAVIS \$19,000 Daring home! Totally remodeled! Hardwood floors, vinyl siding.
ROOSEVELT \$17,000 Good condition. Freshly painted, hardwood floors.	RUBY \$15,000 Great 1st home or investment. New road, 3 BR, 1 BA.

682-1144



6310 W. Wall

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Press 6-For information on new construction/custom buildings/lots

CITYLINE
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\$100,000 TO \$200,000

RADCLIFF CT.—Stunning style and a kitchen/den to die for, plantation shutters, 5 bedrooms, 200,000
SEQUOIA—One of a kind custom built, master br on first floor. Large rooms, open and spacious. 199,900
SINCLAIR—Tons of charm, 4BR, 2 story in Warwick area. 187,500
BAYBROOK CT.—Off and Running! Mockingbird Heights! New construction by Gil Bates. 186,500
WEDGEWOOD—Custom quality in coveted Trinity Estates, 4BR/3BA, balcony, great yard. 187,500
MEADOWS—3BR/2BA, brown quality in a 4BR/3BA, lots of space, tile, luxury sq. master, 187,500
WOOD DR.—Spacious ranchstyle home in the city. 182,500
COUNTRY CLUB—Lots of new in a charming 5BR/3 1/2 BA, 2 story, hdw flrs, sun porch. 187,500
PRINCETON—One of a kind, 5BR in super neighborhood. Loads of new & fresh. 187,500
TEAKWOOD—Lift gameroom, lots of amenities, 4BR/3BA, 189,500
EDGEWOOD DR.—Fantastic new Gilbert Bates construction with the usual amenities and more. 168,500
ILLINOIS—Gracious 1st spacious, 4BR near hospital, perfect for officiate conversion. 162,000
GREENTREE—Lovely home, 3.5, study, 2 living areas. 159,000
CASTLEFORD RD.—4BR/3BA, 2LA in coveted Santa Rita district. 152,500
CARRINGTON—Scheduled for completion late Oct. gmt. kit, light & bright. 151,250
NORTHFIELD—Quiet cul-de-sac, custom, pastel colors, lg pool, one of kind, close to schools. 149,900
DRIFTWOOD—Huge master suite, extra large master bath w/ jacuzzi. 147,500
KINGSTON—Better than new! Big LA + lg. playroom. 144,900
COUNTRY CLUB—Hdwood, brick flrs, plantation shutters, solid paneling, lots of charm, space & air. 143,500
HAYNES—Entertaining modern contemporary w/3 living, pool, cabana, gameroom w/mt, 4BR. 142,500
SENTINEL—Must see inside! View pool thru FR drs, all bdrms large, master w/ fireplace. 139,500
CASTLEFORD—Wonderful B. Brown in super area. 132,500
CHATHAM—New Look! and 3 LA's on a beautiful quiet cul-de-sac. 130,000
ANDOVER—Lambert wonderful house, 3-car garage, office, huge gameroom, top of line apt. 129,500
JUNIPER CT.—Stunning contemporary, skylights, tile flrs, made for entertaining. 129,500
CANTERBURY—Great floor plan! seq. master & guest beds. Charming courtyard. 129,000
EMERSON—Spacious 4BR w/mtch storage. Walk to school, super decked out tub area. 128,000
SKYLINE DRIVE—Spacious bedroom, pl. lots of liv. fr. 126,000
HAYNES—Wonderful large TH, 2 LA, 3A. 124,500
HAYNES—Fresh spacious, light, beautiful condition, wonderful courtyard, lg dogrun, fabulous stor. 124,500
CULPEPPER—Fabulous SW cont. tri-level home, lab landscape and many features. 124,500
WESTERN—Great buy in a spec patio hse, RV parking. 119,900
BRADFORD—Exciting new J. Leonard construction whydomech, minibeds, beautiful decor. 119,500
BRISTOL CT.—Darling 4/3, Mamar cul-de-sac. 117,500
SENTINEL—Remodeled over the years. All rooms are large, swimming pool, 2 car garage. 114,900
TANFORD—Great arrangement on acreage, 2 sqsr. BR, stg. w/mt. 114,900
LEHIGH—All the extras + Gazebo, great 3/3. 110,000
PLACES PLACE—Wonderful cul-de-sac. Beaut. carred for! 106,000
TIMBER CT.—Great! Wonderful Indesp. 2 terric LA's, huge MBR, crown brick fence. 105,000
FAIRFAX—Lg 4BR/2LA 2 dn/3 baths w/ptery pool, w/mtch 100,000

MOVING IN OR OUT?

Call Richard Langston, VP, Relocation, at 1-800-231-2483 for information on Midland or your "new" home in the U.S. and many foreign countries. Schools, housing costs, taxes, sports, arts, medical, transportation—we can send it all to you free and no obligation!

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\$200,000 AND UP

HARVARD—The most outstanding home in Midland! Charm, quality, graciousness through out, 6 bedrooms, 7 baths, 4 fireplaces, formal den, sunroom, 2 playrooms, upstairs gameroom, dark room, firing range, buller's pantry, maids quarters, pool, greenhouse, Please call Joanne Langston for additional details. 1,800,000
CHURCHILL WAY—Fabulous Frank Welch original/pool/tennis ct, so many extras you won't want to miss. 697,500
W. CO. RD.—60-4BR/4BA, guest & caretaker's houses, tennis court, gazebo, stable, 17 acres. 695,000
SADDLE CLUB—Spacious two-story living room, amenities galore! Pool, tennis courts. 525,000
RACQUET CLUB—One of the loveliest in this coveted area. 4BR + complete cabana/guest house, Pool, formal, study, gameroom, garden room, wonderful. 495,000
ASHLIN DR.—Stunning contemporary, gorgeous location, lab entertaining home w/ptery pool. 397,500
CUTHBERT—Space & location - Charming Cont/Spansh custom home for family. 349,500
SINCLAIR—Spectacular home in heart of Warwick, gourmet kitchen, gorgeous pool. 349,500
SINCLAIR—Custom one owner in Midland's most coveted location. 325,000
BLAKEMORE—Fabulous James Morris custom, 5 1/2, 4 + dc sac location in coveted area. 275,000
CRESCENT—One of most elegant, spacious in this fine area. 3BR/3 1/2 BA, formal, study, elegant master, studio or hobby room, immaculate, gorgeous decor. 274,000
SADDLE CLUB LAKES—Beautiful 2 story townhome, owner ready to sell - landscaping allowance. 250,000
SADDLE CLUB LAKES—Immaculate outstanding TH, 2 BDRs down, balcony, den, pool. 250,000
PRINCETON—Country in City! 40x50 barn w/overhead doors. Fabulous pool. 239,500
HACKBERRY COURT—"Top drawer" perfect. Unbelievable, terrace, hot tub. 235,000
TEAKWOOD—Many extras in this beautiful home - stained glass, plantation shutters, 2 wet bars. 220,000
SPRINGFIELD COURT—Beautiful Bill Brown home, 1 year old-light and bright 4BR/4BA. 217,000
SHELL—Stunning remodel in Warwick, great entertainment home, high ceilings, country kitchen. 210,000
LOCKHEED—Beautiful entertaining home, 3 LA's, pool plus cabana, hardwood floors. 210,000
CULPEPPER—Fabulous custom home! Quality everywhere! Terrific kitchen loaded w/mtch, 3-car gar. 205,000
RADCLIFF COURT—Cut above the rest! Custom Trinity West. 203,000

Becky Ferguson 684-3834
Wayne Gideon 685-1021
Gloria Lott 684-0421
Ella Barnett, Broker Assoc 684-6037
Robin Fritch 686-9136
Larry W. Mayes, GRI 687-0740
Jana Tucker, GRI 683-7449

WHAT'S NEW? WHAT'S REDUCED?

DAVENTRY—James Morris custom, one owner, huge rms, very stunning & elegant! Won't last long. 179,900
HEATHER—Absolutely lovely! Enormous kitchen, beautiful parquet floors. 165,000
WELLINGTON—Year old Graham home on cul-de-sac in Polo. lg back yd, sunny family rm, 3 car gar. 149,900
BOYD—Darling 2 story, beautiful pool 4/3/3, spacious rms, good workshop. 149,900
KANSAS—Charming Georgian two story, built-ins, tile flrs, much updating. 132,500
HARVARD—Charming, immaculate, great location, beautiful condition, lovely yd, pretty patio. 125,000
HEATHER—Light, bright, open floor plan, excellent condition, large fenced back yard. 114,000
RAINBOW—Super location, walk to Bush Elem. Owner will consider financing. 110,000
S. CO. RD.—1164-Country retreat pure & simple. Poolside living, beautiful yd, 3 stall barn. 99,500
WHITMAN—Nice plan, corner lot, seq. master, great kitchen. 89,900

SUBURBAN

W. CO. RD.—42-Sprinklered, crossfenced 40 ac w/charming home, stables, barns, shop, bunk house, super big site. 365,000
E. CO. RD.—105-Greenwood's finest residential area. Pool, 3BR/3BA, barn, completely fenced. 134,000
E. CO. RD.—127-Lg. 4 1/2 w/barns, tiled arena, good water. 109,000
E. CO. RD.—140-Guest house, shop, office, solar covered pool. 96,500
E. CO. RD.—123-3/3, high ceilings, spotless, pretty yards, cement drive. 89,900
W. CO. RD.—1133-Huge bedrooms - well laid out floor plan. 89,900
S. CO. RD.—1202-3/2 home with huge shop 35x70 metal bldg, or buy w/mtch. 79,000
PECAN—1982 DW Schultz on P&B, barns, 3 corrals, fenced. 53,000
SARAH LANE—4BR/2BA, cul-de-sac, nice oversized patio. 52,000
S. CO. RD.—1110-Lg. bedrooms, screened porch, 15 acres. 50,000
GREENVIEW LANE—Sequestered mst + 2 other lg bedrooms, nice family room w/ fireplace. 42,000
CO. RD.—1208-Good space in a 3 1/2, 2 LA, FP, storm shelter. 39,900

\$50,000 TO \$100,000

GODFREY—Great family home in Trinity, Newly decorated. 99,900
DEL RIO—Fabulous resort home in great vacation area. 99,500
HARVARD—Lots of character, space, beautiful area. 99,000
DAVENTRY—Nice neighborhood, great space, good price. 99,000
WHITNEY—Great 1 on Mamar. Pretty yd lots of space & m. 99,000
PRINCETON—Great area 4BR plus Bonus Room. 97,500
HERMITAGE—House for picky buyer, neat as a pin, 4-car garage, super block & neighbors. 94,900
MAXWELL—Big family home close to Mid. College, wonderful pool/patios & hot tub. 94,900
GOLF COURSE—Sparkling clean lots of new, wonderful pool and backyard. 92,750
TEXAS—Old Midland white of charm. Hardwood flrs, arched doors, apt in back. 90,000
SINCLAIR—Country retreat in the city-spr 3/2 workshop. 89,900
FAIRVIEW—Low maint. with pool, large living areas, great floor plan. 89,500
PEACH—New carpet, beautiful trees, 4 bedrooms, very open plan. 89,500
GLENEAGLES—Great family home, 4BR, less than 2 yrs old, formal dining, Flammart Park. 89,000
MOSS—Easy living, beautiful condition, Mex. tile, built-in buffet. 87,500
MOSS—Beautifully maintained patio type home, big rooms! Low maintenance front yd w/mtch. 87,500
LEHIGH—Great drive-up, trees, 4 BR/3BA, great kitchen. 86,000
LANHAM—Great plan 3/2, sunlit living, spacious kitchen. 85,000
WADLEY—Beautiful in mint condition! Great kitchen, huge master bedroom. 84,900
EDGEMONT—Like new, large living area, very open. Special assumpt. 83,800
WHITMAN—Nice plan, corner lot, seq. master, great kitchen. 83,800
HARVARD—Old Midland, great young family home, backyard w/mtch. 82,500
FRONTIER—Great four bedroom in Fannin area, 1/2 block from school, spacious living. 80,000
RELECHASE CT.—Shiny brand new kitchen vinyl, cul-de-sac, NO & sother. 79,000
HUGHES—4BR, 3 BA, study, Fannin, large yard. 79,000
VENTURA—Spacious townhome, super buy at. 79,000
FRONTIER—Beautiful yard, 11/2 gar, outside storage & kennel. 79,000
EDGEMONT—3BR/2BA on cul-de-sac, neat & clean. 79,000
PRESTON—Priced to sell 3BR/2BA, vaulted ceilings w/mtch. 79,000
DETROIT—Largest townhome on block, Many extras. 79,000
OSAKIGHT—Lovely woodwork throughout! Charming kids rm, formal dining, huge workshop. 74,500
CUTHBERT—Old Midland charm! Great lot, workshop. 74,500
FRONTIER—Cute, cute home, versatile plan, formal DR, pretty colors. 73,900
MANOR CT.—Cozy family home on cul-de-sac, Motivated, transferred seller. 73,900
BR/2BA—Large shop. 73,500
STANOLIND DR.—Non-qualifying assumable loan 4/2. 73,200
MOSS—Spacious family home, lovely yard, 3BR/2BA. 72,500
HUGHES—Family home in "Old Midland", owner finance. 72,000
WADLEY—Great patio home! Open floor plan, plantation shutters, 1/2 block from school. 72,000
LOUISIANA—Big older home, hardwood flrs, 3 living areas. 69,900
FANNIN—Beautiful and comfortable home, 3BR/2BA. 69,900
STANOLIND—Spacious family home. Plantation shutters, large den & kitchen, indoor backyard. 69,700
SINCLAIR—Perfect! One owner, great kitchen, towering oak & pecan/500. 69,500
NAVAJO—Nice large brick home w/mtch. 3BR/2BA, lg w/mtch, pool. 69,500
GERALDINE—Support opportunity to own the family home. Large everywhere. 69,500
THANET—Pool-sunroom - 4 BR/3 BA. 69,500
FREDDA—Darling 3BR/2BA of new, cul-de-sac location great closets. 69,500
SHANDON—Fabulous! Great flrs, great kitchen-all new cabinets. 69,000
FRONTIER—Near Fannin Elem., fresh paint inside, sunroom. 69,000
UPLAND—Unbelievable! Garden rm, w/mtch, much updating in past 4 yrs. 69,000
LAVACA—Great starter! Nice clean home, recently painted. 69,000
LOUISIANA—Non-qualifying assumpt. owner will carry second. 69,000
NEELY—TH style, small backyard, open & bright, any offer considered. 69,000
WHITNEY—One owner delightful home, well cared for. 69,000
FANNIN—No assumpt. Pretty home, nice plan, 3/2. 69,000
SUNQUAT—Non-qual assumpt. lease purchase, 3/2, sprinkler sys. 69,000
AMISTAD—Perfect for first time buyer! Cute house, great yard. 69,000
SIESTA—Great duplex buys. 69,000

\$9,500 TO \$50,000

LOUISIANA—Well built, corner lot 3 BR/2 BA. 49,900
"P"—Pretty street appeal. Charming home. 3/2. 49,900
ANETTA—One side of duplex for sale great price! 49,900
WADLEY—Spacious, light and bright. Mirrored living room walls. 49,900
PLAYER CT.—Cute and clean 3/2. 49,900
SIESTA—Fully leased duplex! 49,900
GLENNWOOD—Super nice home, bond money assumpt on low pmt. 49,900
MOITY—Totally redeco, new paint, carpet, wallpaper in bathroom, kitchen tile, air. 49,900
DELAND—This won't last long, non-qualifying, low equity. 49,900
SHANDON—Good investment property. 49,900
WILLOWOOD—Heads T.L.C. Owner will give allowance. 41,500
BAUMANN—Huge 21'x21' shop, oversized patio, nice extra. 41,500
MOSS—Remodeled, ready to move in, 3BR/2BA. 41,500
DORMARD—Perfect duplex 3BR/2BA. 39,900
COLLEGE—Investor's special! Duplex with efficiency in rear. 39,900
HOP-LIGHT & bright, open plan, 2 full baths. 39,900
BAUMANN—Huge 21'x21' shop, oversized patio, nice extra. 39,900
ANETTA—Remodeled, ready to move in, 3BR/2BA. 39,900
PARKDALE—Wonderful home, much updating, quiet bkg, light, bright & clean. 37,500
WILSHIRE—Great buy, 3BR/2BA, open living. 34,000
SIESTA—4 bedroom custom home. 32,000
KENTUCKY—Great buy, new carpet, 3/2, sprinkler sys. 32,000
LOMA-CUTE—Clean charming home, light kitchen, spacious living area. 27,500
LOMA-CUTE—First home, close to downtown. 25,500
LA-Cottage—Home view paint and carpet. 25,500
KENTUCKY—New roof, central air and heat. Nice can be. 25,500
WADLEY—Perfect for first time buyer! Cute house, great yard. 25,500
ANETTA—Freshly painted inside. Good property. 17,900

CALL 560-2400

1010 W. STOREY
2301 NEELY
2628 DURANT
2108 BRADFORD
1621 CROWLEY
7303 COVENTRY
2804 MARMON
2505 CASTLEFORD
1901 COLEMAN
Bill Welch
LaVada Fowler, GRI, CR
Mary Jo Drury, GRI
Karen Gash, GRI
Jack Quade
Donna Pelt, GRI
Ruth Young, GRI, CR
James Finley

1010 W. STOREY

OPEN SUNDAY
Lot of charm in this nice floor & carpet, security system, lot of closet space.
Call the PRIDE 694-6944

BAD CREDIT OK - Non-qualifying

loans. Several houses. 3000 Michigan, \$45,000, 4 beds. 682-3542.

TOWN HOUSE OWN

Enjoy the cozy fireplace, clean 3 bedroom, 2 1/2 bath car garage, enclosed home plus numerous custom in quiet area.
\$58,000
694-5311

SALE OR LEASE

3 bedrooms, 2 bath, 2 car garage, large backyard, close to Bonham elementary school. 10% loan to buyers or lease with option to buy, will pay all closing costs. 704-664-7661

NEW CONSTRUCTION

time home, four bedroom, 2 1/2 baths, 3 full baths, gourmet kitchen, all the extras. See Sallie Sunquist at 1-510-200-1000. \$165,000. 535-1391, 699-0708.

TOTAL RELAXATION!!!

3 room lovely unique home, 3 bedrooms, 2 1/2 baths, 1 car garage, \$795 monthly, 3805 Lone. 694-9403.

CUSTOM HOMES FROM \$50,000

sq. ft. Your plan or ours. Inquire available. 533-1391/699-0708.

COMPTON

Beautiful corporate located in Skyline Addition. It has been reduced to \$92,000. Don't miss this immaculate 3BR, 2 1/2 bath home!

REAL ESTATE OPPORTUNITY!!!

4 bedroom, 3 bedrooms, 2 bath, 2 car garage, large on 1 acre of land. Short state accredited course. Day, weekend, evenings, South-West, 683-4553.

OWNER WILL CARRY

Prime suburban property. 3 bedroom, 2 bath home on 1 acre of land. Updated kitchen, pecan and fruit trees. Priced under \$60,000. Call 697-4434.

GREEN TREE

\$99,900
We are talking neighborhood! Won't last long.
6300 DRIFTWOOD
694-2612
Evenings and weekends

FOR SALE BY OWNER

4 bedroom, 2 bath, 3 car garage, 2 living areas, less than one year old, located in Grassland. Price mid \$140's. 689-3149.

HUD HOMES

We have colored pictures inside and out on all of them. Call us anytime!
2905 Wyndwood Dr. \$71,000
4200 Thornberry. \$54,850
1202 Louisiana. \$28,000
2310 W. Kansas Ave. \$27,750
704 Devonian. \$28,000
3301 Cimmaron. \$40,850
508 Brownwood Dr. \$39,900
724 Boyd Ave. \$36,600
1202 Louisiana 2/1 \$26,000
OTHER PROPERTIES
1208 Garden Ln. 3/1 \$37,000
113 E. Nobles 2/1 \$17,500
Ask about HIP funds, available soon. Call any time. 682-0470
Robles Real Estate
Se Habla Espanol

THINKING OF SELLING your home?

Let us help. We have buyers waiting. Call Robles Real Estate, 682-0470. Se Habla Espanol.

SALE, LEASE OR LEASE PURCHASE

Large home at 4000 Crestridge featuring 4 bedrooms, 3 1/2 bath, 2 living areas and is priced at only \$110,000 or will lease for \$1,250 monthly. Call Dene Kelly 687-0595 even. 686-7809 DENE KELLY REALTORS

Homes For Sale

The PRIDE

3303 N. M

1010 W. STOREY
2301 NEELY
2628 DURANT
2108 BRADFORD
1621 CROWLEY
7303 COVENTRY
2804 MARMON
2505 CASTLEFORD
1901 COLEMAN

Bill Welch
LaVada Fowler, GRI, CR
Mary Jo Drury, GRI
Karen Gash, GRI
Jack Quade
Donna Pelt, GRI
Ruth Young, GRI, CR
James Finley

1010 W. STOREY

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REAL ESTATE OPPORTUNITY!!!

4 bedroom, 3 bedrooms, 2 bath, 2 car garage, large on 1 acre of land. Short state accredited course. Day, weekend, evenings, South-West, 683-4553.

OWNER WILL CARRY

Prime suburban property. 3 bedroom, 2 bath home on 1 acre of land. Updated kitchen, pecan and fruit trees. Priced under \$60,000. Call 697-4434.

GREEN TREE

\$99,900
We are talking neighborhood! Won't last long.
6300 DRIFTWOOD
694-2612
Evenings and weekends

FOR SALE BY OWNER

4 bedroom, 2 bath, 3 car garage, 2 living areas, less than one year old, located in Grassland. Price mid \$140's. 689-3149.

HUD HOMES

We have colored pictures inside and out on all of them. Call us anytime!
2905 Wyndwood Dr. \$71,000
4200 Thornberry. \$54,850
1202 Louisiana. \$28,000
2310 W. Kansas Ave. \$27,750
704 Devonian. \$28,000
3301 Cimmaron. \$40,850
508 Brownwood Dr. \$39,900
724 Boyd Ave. \$36,600
1202 Louisiana 2/1 \$26,000
OTHER PROPERTIES
1208 Garden Ln. 3/1 \$37,000
113 E. Nobles 2/1 \$17,500
Ask about HIP funds, available soon. Call any time. 682-0470
Robles Real Estate
Se Habla Espanol

THINKING OF SELLING your home?

Let us help. We have buyers waiting. Call Robles Real Estate, 682-0470. Se Habla Espanol.

SALE, LEASE OR LEASE PURCHASE

Don Harvey, Realtors

MIDLAND'S
MOST PRODUCTIVE
REALTORS

Kay Pederson, GRI.....682-4922
Nance' Boyd.....697-2728
Norma Barnes, Broker Associate.....683-1334
Karen Foster.....697-4434
Marlene Groce, GRI.....697-0927
Jeannie Printz, GRI, Broker Assoc.....699-1641
Pat Carl, Broker Associate.....682-4000
Vicky Garrett, GRI, Broker Associate.....683-0976
Dorothy Moring.....684-6780
Patsy Brice, Broker Associate.....683-1596
Kay Sutton, Broker Associate.....694-8640
Anita Noles, GRI, Broker Associate.....694-5255
Polly DeVoss-Hodge.....683-2215
Anne Breeding.....682-1809
Kathy Phillips.....699-6287
John Fields.....684-7324
Beverly Dwyer.....697-7825
Vicky McWilliams.....697-5708
Peggy Strong, GRI.....694-5762
K.C. Offield.....684-7241
Colene Cowan, GRI.....699-1288



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Midland, Texas 79701
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OPEN HOUSES 2:00 TO 4:00

3213 Apperson Way-\$79,900
3 Bedrooms, 2 Baths, 2
Living Areas

4309 Nicklaus-\$47,900
3 Bedrooms, 2 Baths, 2-Car
Garage



RESIDENTIAL

TEAKWOOD - 4br, 1b, 1/2b, 2-car garage, 5.5ba, 2LA, \$439,000

CO RD 1265 - 4br, 5ba, 3LA, 1/2, \$395,000

SHADYBEND - 3br, 2ba, 1/2b, 2-car garage, 2LA, \$239,000

RUSTIC TRAIL - UNDER CONTRACT - Karen Foster

COUNTRY CLUB - 4br, 2ba, 1/2b, 3LA, Old Midland, \$289,000

SEQUOIA - 5br, 4ba, 2LA, 1/2, \$259,000

GREENTREE - 4br, 4.5ba, 2LA, beautiful view, quality, \$259,000

CHATEAU - 5br, 1/2, 2b, 3 car garage, 4ba, 2LA, PRETTY, \$249,000

TEAKWOOD - 3br, 1/2, 2LA, 2b, 2-car garage, 3.5ba, \$239,000

ORIOLE - 4br, 2LA, 2-story, 3ba, wetbar, Milton, \$225,500

GREENTREE - 4br, 5ba, 2LA, beautiful view, quality, \$219,000

FOGHOLLOW - UNDER CONTRACT - Corporate

SADDLECLUB - 3br, 1/2, 2-car garage, 4ba, 2LA, \$199,900

BASINWOOD - UNDER CONTRACT - \$199,900

HARVARD - 4br, 1/2, 2b, 2-car garage, 3.5ba, 2LA, \$199,000

MADRID - 3br, 1/2, 2LA, 1/2, 2-car garage, 3.75ba, 3LA, \$197,000

CUTHBERT - 3br, 1/2, 2LA, 1/2, 2-car garage, \$195,000

SUNRISE - UNDER CONTRACT - Karen Foster

SUNRISE - 4br, 3ba, 2LA, 1/2, 2-car garage, \$179,000

EDENBURGH - UNDER CONTRACT - Nance' Boyd

CORDES - UNDER CONTRACT - KAREN FOSTER

TEAKWOOD - 4br, 2.75ba, 2LA, 1/2, 2-car garage, \$173,900

CARDINAL - 4br, 1LA, 2.5ba, pool, country, \$173,000

OAKLAWN - 3br, 3.75ba, 2LA, 1/2, 2-car garage, \$169,900

SHADYBEND - 3br, 2ba, 1/2, 2-car garage, 2LA, \$169,000

PRINCETON - 4br, 1.75ba, 2-car garage, 1/2, \$165,000

SEQUOIA - 4br, 2.5ba, 2LA, 1/2, 2-car garage, \$164,500

LOGANMITOS - 3br, 2ba, 1/2, 2-car garage, \$160,000

DRIFTWOOD - 4br, 3.75ba, 2LA, 1/2, 2-car garage, \$159,900

SHADYBEND - 4br, 1/2, 2LA, 1/2, 2-car garage, \$159,000

CENTERVIEW - 4br, 2LA, 3ba, 2b, 1/2, 2-car garage, \$157,500

NORTHFIELD - 4br, 1/2, 2LA, 1/2, 2-car garage, 3ba, 2LA, \$154,500

BOYD - 4br, 3ba, 2LA, 1/2, 2-car garage, Warwick, \$152,500

THAMES - UNDER CONTRACT - Corporate

THAMES - UNDER CONTRACT - Peggy Strong

LEONWOOD - UNDER CONTRACT - Key Sutton

PINE - UNDER CONTRACT - Beverly Dwyer

TEAKWOOD - 4br, 1LA, 3ba, 1/2, 2-car garage, \$149,500

TEAKWOOD - 4br, 3.5ba, 1/2, 2-car garage, \$149,500

NEWCASTLE - 4br, 2.5ba, 2LA, 1/2, 2-car garage, \$144,000

COLLEMAN - UNDER CONTRACT - Key Sutton

NORTHFIELD - 4br, 1/2, 2LA, 1/2, 2-car garage, \$136,000

HACKBERRY - UNDER CONTRACT - Corporate

TERRA - UNDER CONTRACT - Vicky Garrett

TEAKWOOD - 5br, 4ba, 2LA, 1/2, 2-car garage, \$136,000

CORDES - 4br, 2ba, 1/2, 2-car garage, \$136,000

CORDES - 3br, 1/2, 2LA, 1/2, 2-car garage, \$129,900

RICHMOND - 4br, 3ba, 1/2, 2-car garage, \$129,000

ROSEWOOD - UNDER CONTRACT - Karen Foster

CYPRESS - UNDER CONTRACT - Norma Barnes

HODGES - UNDER CONTRACT - Karen Foster

TERRA - UNDER CONTRACT - Key Sutton

CORDES - 1140 - 3br, 2b, 1/2, 2LA, \$122,240

HIGHWAY - UNDER CONTRACT - Vicky Garrett

HEATHER - 4br, 1/2, 2LA, 1/2, 2-car garage, 3ba, 2LA, \$120,000

HYDEPARK - 4br, 1/2, 2LA, 1/2, 2-car garage, 4ba, 3LA, \$119,000

CRESTHILL - UNDER CONTRACT - Karen Foster

SEABOARD - UNDER CONTRACT - Corporate

CANTERBURY - UNDER CONTRACT - Corporate

CAROL - 4br, 1/2, 2LA, 1/2, 2-car garage, \$117,500

METZ - 4br, 2.5ba, 2-car garage, \$117,500

MT. VERNON - 4br, 1/2, 2LA, 1/2, 2-car garage, \$115,500

STRATTON - UNDER CONTRACT - Key Sutton

CASTLEFORD - 3br, 1/2, 2LA, 1/2, 2-car garage, \$115,000

PECAN - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$115,000

SHELL - 3br, 2ba, 1/2, 2-car garage, \$114,000

TAMARIND - UNDER CONTRACT - Anita Noles

CRESTWOOD - 4br, 1/2, 2LA, 1/2, 2-car garage, \$110,000

CRESTWOOD - just listed, \$110,000

BISHOPS - UNDER CONTRACT - Corporate

MOSS - 3br, 2LA, 2ba, 2-car garage, \$105,000

STRATTON - 4br, 2ba, 1/2, 2LA, 1/2, 2-car garage, \$104,900

CRESTHILL - UNDER CONTRACT - Vicky Garrett

METZ - UNDER CONTRACT - Anita Noles

KIRKLAND - 3br, 2ba, 1/2, 2LA, 1/2, 2-car garage, \$102,250

CORDES - 1184 - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$100,000

OAKMONT - 4br, 1/2, 2LA, 1/2, 2-car garage, 2ba, \$100,000

CRESTHILL - UNDER CONTRACT - Patsy Brice

HAYNES - 3br, 1/2, 2LA, 1/2, 2-car garage, \$99,900

WESTMINSTER - 3br, 2ba, 1LA, 1/2, 2-car garage, \$99,900

OAKMONT - 4br, 1/2, 2LA, 1/2, 2-car garage, 3ba, 1LA, \$99,900

FAIRVIEW - 4br, 3ba, 1LA, 2-story, \$99,500

CRESTHILL - 3br, 1/2, 2LA, 1/2, 2-car garage, 3ba, 2LA, \$99,000

RICHMOND - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$99,000

AURORA - UNDER CONTRACT - Karen Foster

HUMBLE - 3br, 2LA, 2ba, 1/2, 2-car garage, \$97,500

RAINBOW - 4br, 2ba, 1LA, 1/2, 2-car garage, \$96,500

FAIRVIEW - 4br, 3ba, 1LA, 2-story, \$95,900

ORIOLE - UNDER CONTRACT - Corporate

APPENDIX - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 2LA, \$94,000

PURCHASE - UNDER CONTRACT - Key Sutton

CORDES - 1241 - UNDER CONTRACT - Peggy Strong

EDGEMONT - 4br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$92,900

OAKRIDGE - UNDER CONTRACT - Corporate

EDGEMONT - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$90,000

STANBURY - 4br, 1/2, 2LA, 1/2, 2-car garage, 2.5ba, 1LA, \$89,900

MCCLINTIC - 3br, 2LA, 2ba, 1/2, 2-car garage, \$89,000

COMMUNITY - 3br, 2LA, 2ba, 2-car garage, \$89,000

GREENBRIAR - 4br, 1/2, 2LA, 1/2, 2-car garage, \$89,000

KEYSICK - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$89,000

NORTHWOOD - 4br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$89,000

TERRACE - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$89,000

WESTMINSTER - 3br, 2ba, 1LA, 1/2, 2-car garage, \$89,000

EDGEMONT - 4br, 2ba, 1LA, 1/2, 2-car garage, \$89,000

WESTMINSTER - 3br, 2LA, 2ba, 2-car garage, \$89,000

SLYBURN - 3br, 2ba, 1LA, 1/2, 2-car garage, \$89,000

COUNTRY CLUB - UNDER CONTRACT - Karen Foster

REGAL - UNDER CONTRACT - Patsy Brice

RAINBOW - 3br, 2ba, 2LA, 1/2, 2-car garage, \$87,500

TERRACE - 3br, 2ba, 2LA, 1/2, 2-car garage, \$86,900

DAVENTRY - 3br, 1/2, 2LA, 1/2, 2-car garage, \$85,000

PRINCETON - 3br, 1LA, 1/2, 2-car garage, \$85,000

BROADWAY - 4br, 2ba, 3LA, 1/2, 2-car garage, \$85,000

ELMA - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$84,900

GLIMMER - UNDER CONTRACT - Corporate

STUTZ - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 2LA, \$84,900

MEADOWBROOK - 3br, 2ba, 1LA, 1/2, 2-car garage, \$84,900

CAMARINE - UNDER CONTRACT - Key Sutton

ANDOVER - 4br, 2.5ba, 2LA, 1/2, 2-car garage, \$83,500

WESTERN - just listed call for info, \$83,000

KESWICK - UNDER CONTRACT - Vicky Garrett

QUAL - UNDER CONTRACT - Karen Foster

CLIMAX - UNDER CONTRACT - Key Sutton

HAYNES - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$81,900

"L" STREET - UNDER CONTRACT - Corporate

DYER - UNDER CONTRACT - Patsy Brice

HAYNES - 3br, 2ba, 2LA, 1/2, 2-car garage, \$79,900

ST ANDREWS - 3br, 2ba, 1LA, 2-car garage, \$79,000

WEDGEWOOD - 3br, 2ba, 1LA, 2-car garage, \$79,000

WYDEWOOD - UNDER CONTRACT - Vicky Garrett

FAIRBANKS - UNDER CONTRACT - Peggy Strong

WESTMONT - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 1LA, \$79,900

GREEN TREE - Redwood, 3br, 2ba, 1/2, 2-car garage, \$77,900

ANDOVER - 4br, 3ba, 1/2, 2LA, 1/2, 2-car garage, \$77,000

CULVER - 3br, 2ba, 2LA, 1/2, 2-car garage, PRETTY, \$77,000

LOUISIANA - 4br, 1/2, 2LA, 1/2, 2-car garage, 3ba, 2LA, \$76,000

VENTURA - UNDER CONTRACT - Norma Barnes

FAIRBANKS - UNDER CONTRACT - Peggy Strong

MC DONALD - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 2LA, \$75,000

WEST - UNDER CONTRACT - Key Sutton

FALCON - new listing, call for information, \$74,750

DENTON - 3br, 2ba, 1LA, 2-car garage, \$74,500

FAIRHAVEN - UNDER CONTRACT - Key Sutton

DENGAR - UNDER CONTRACT - Patsy Brice

CLAREMONT - UNDER CONTRACT - Peggy Strong

HWY 158 - UNDER CONTRACT - Patsy Brice

WINDSOR - 3br, 2ba, 2LA, 1/2, 2-car garage, \$69,900

NEELY - 3br, 2ba, 1LA, 1/2, 2-car garage, \$69,900

WARD - 4br, 2ba, 1LA, 1/2, 2-car garage, \$69,900

KANSAS - 4br, 2ba, 2LA, 2-car garage, fireplace, \$69,900

BURNINGWATER - 4br, 2ba, 1LA, 2-car garage, fireplace, \$69,900

SHELL - Old Midland, 3br, 2ba, 2LA, \$69,000

BELLEVOUE - just listed call for info, \$69,000

LINHAM - 3br, 2ba, 2LA, 1/2, 2-car garage, \$69,000

FLAME - UNDER CONTRACT - Key Sutton

KLARIS - 4br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 2LA, \$69,000

DORA - UNDER CONTRACT - Jeannie Printz

LINHAM - Old Midland, 3br, 2ba, 2-car garage, pool, \$69,000

PRESTON - UNDER CONTRACT - Nance' Boyd

ELMA - UNDER CONTRACT - Vicky Garrett

FREDNA - UNDER CONTRACT - Norma Barnes

ANBOR - 3br, 1/2, 2LA, 1/2, 2-car garage, \$67,900

ST ANDREWS - UNDER CONTRACT - Peggy Strong

REDGLASS - 3br, 2ba, 3LA, 1/2, 2-car garage, CHARM, \$65,000

CORDES - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 2LA, \$65,000

ALCOVE - 3br, 1LA, 2ba, 1/2, 2-car garage, \$64,900

BRAZOS - UNDER CONTRACT - KAY PEDERSON

WESTBURY - 3br, 1/2, 2LA, 1/2, 2-car garage, 2ba, 2LA, \$64,900

NEELY - 3br, 2ba, 1LA, 1/2, 2-car garage, \$64,500

NORTHWOOD - 3br, 2LA, 2ba, 1/2, 2-car garage, \$64,500

MARCLANE - 3br, 1LA, 2ba, 1/2, 2-car garage, \$64,000

EMERSON - 3br, 2ba, 2LA, 1/2, 2-car garage, \$63,500

LASALLE - just listed, \$63,000

TERRACE - UNDER CONTRACT - Key Sutton

CONCHO - 3br, 1LA, 2ba, 2-car garage, \$62,500

CULVER - 3br, 2ba, 1LA, 1/2, 2-car garage, \$62,500

LIFESTYLE & TRAVEL



The fall foliage in the Sacramento Mountains of New Mexico reached its peak earlier in October. This crop of trees is located about four miles southeast of Cloudcroft in scenic Cox Canyon.



Just west of Cox Canyon, the Sunspot Highway (Hwy. 6538) offers some breathtaking views, including this scenic overlook of the small town of La Luz, just north of Alamogordo.



Ponderosa Pines is a scenic — and at times — difficult course, located nine miles southeast of Cloudcroft on New Mexico Hwy. 130. This par-3 third hole has a severe drop off from tee to green.

COX CANYON

NEW MEXICO

Text and photos By Jimmy Patterson

COX CANYON, N.M. — Nestled in the Sacramento Mountains just south-east of Cloudcroft, N.M., is, quite simply, a slice of paradise. Perhaps Tom Perea, proprietor of Las Banderas Bed and Breakfast, put it best when he referred to Cox Canyon as a place "more for the Sunday driver."

While Cloudcroft itself continues to grow in popularity and appeals more to the tourist, Cox Canyon is so rural in nature it makes Cloudcroft look like a burgeoning Mecca in comparison.

Not many people travel down New Mexico Highway 130, an alternate route that stretches from Mayhill to Cloudcroft. But Perea feels that once people know about the road and its simple beauty, the area's popularity may begin to grow.

Aside from the fall foliage that reached its peak earlier in October, the area's main attraction is its virtual total lack of commercialism. Save for Perea's bed and breakfast and the Ponderosa Pines golf course, about the only other establishment on Hwy. 130 is a barbeque restaurant that doubles as Cox Canyon's horseback riding headquarters.

Las Banderas is billed as "Cloudcroft's newest and unique bed and breakfast." It's also quite homey in its atmosphere. In addition to the three rooms available inside the bed and breakfast (\$40-\$45 per night), a two-floor, two-bedroom, 'A' frame cabin (\$50 per couple; \$60 per family) is locat-

ed behind the main inn.

Staying at Las Banderas, visitors are normally greeted by a two-year-old golden retriever who immediately becomes the constant companion of any children that happen to be along for the trip.

Las Banderas also features a playground for children, an amphitheatre complete with a campfire pit and a pond stocked with rainbow trout (Perea's pets, so no fishing).

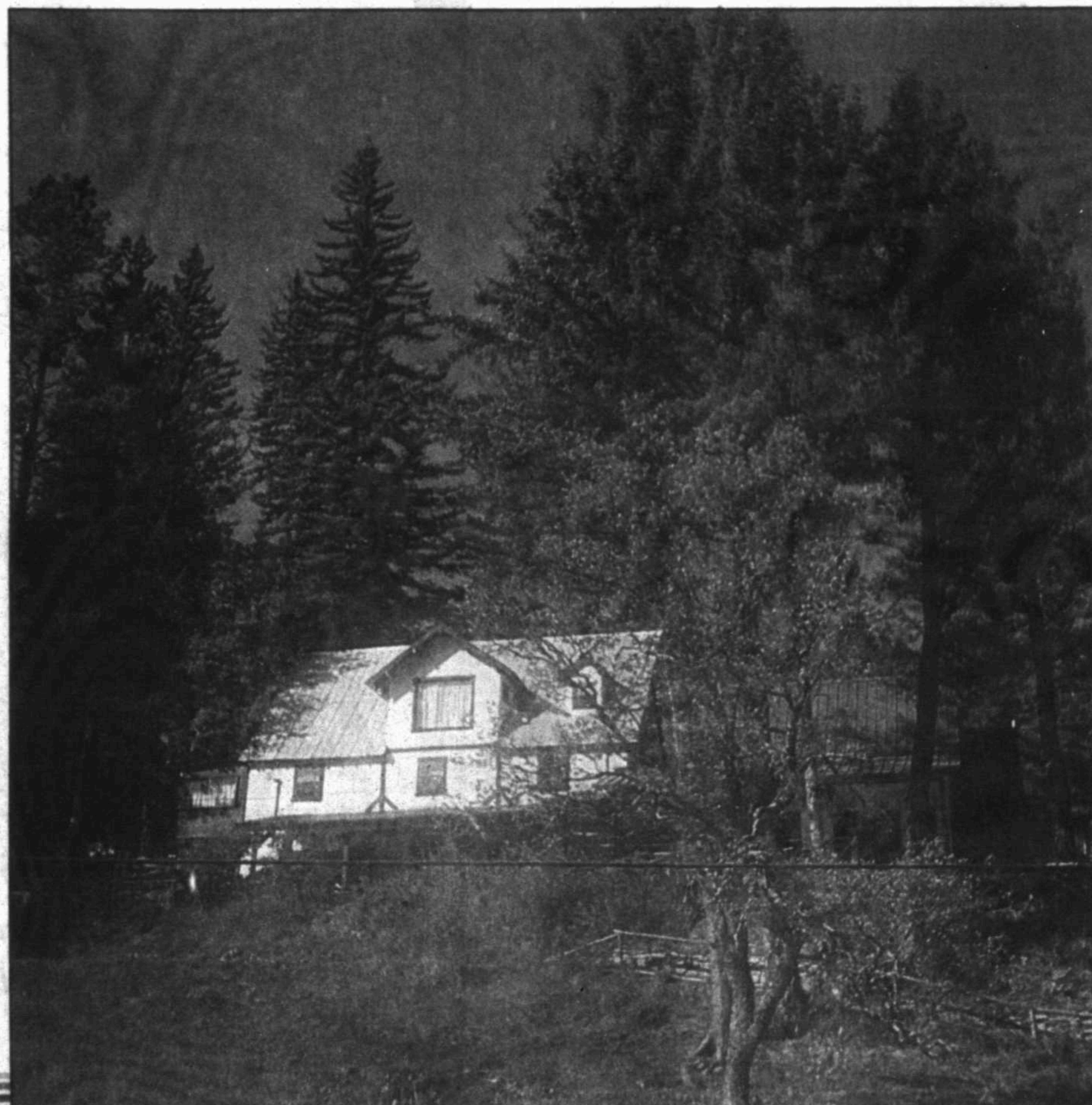
Another of Las Banderas' attractions is the conversation of Perea, a former government worker who has a story for most every occasion. And then there's the cooking of Velia, Perea's wife, who specializes in German and Mexican fare, not to mention her surprise breakfasts.

"I never know what she's going to come up with for breakfast, but it's always good," Perea said.

Ponderosa Pines Golf Course, nine miles southeast of Cloudcroft and just a two mile jaunt from Las Banderas, is a must for the golfer who makes the trip.

Under new ownership since June, when Bill and Mary Gayso moved to Cox Canyon from Indiana to run the course, the nine-hole Ponderosa Pines has shown steady improvement. The Gaysons have improved the greens and fairways and trimmed the tricky rough that once ate many a ball.

The course is most difficult on the second hole, a 380-yard, **Please see CANYON/2E**



Las Banderas Bed and Breakfast overlooks New Mexico Hwy. 130, seven miles southeast of Cloudcroft. Three bedrooms are available in the main inn, and a two-bedroom cabin is featured on the property's back side.

HAVE YOU HEARD? Midlander's 100th birthday celebrated

By Marilyn McKnight Harrison

Lovely keepsake invitations showing Ada Dunagan as a young girl and also as she appears today were mailed to friends and relatives for her 100th birthday celebration. Held recently at Manor Park, where Mrs. Dunagan resides, the reception was attended by more than 250 friends and family members.



McKnight-Harrison

Hosts were her children and their spouses, J. Conrad and Kitty Dunagan and Helen Reeves, all of Monahans; Lorena and Poosty Jones of Midland and Virginia and Ralph Hardy of Abilene.

The party area was decorated with masses of balloons and floral arrangements of Colombian roses, Gerbera daisies and Stargazer lilies. A family dinner was held afterwards at the Holiday Inn Country Villa for 125 guests. Conrad Dunagan served as master of ceremonies for the program.

A granddaughter, Deanna Dunagan of Chicago, read a narrative history of Mrs. Dunagan's life, from her move to Texas at four years of age in a covered wagon to the space age. Other grandchildren and great-grandchildren of the honoree also participated on the program, which included the reading of a birthday greeting from President and Mrs. Bush.

Among the out-of-town guests were former Midlanders Charlene and John Charles Dunagan and children, Christopher and Sarah of Westport, Conn.; Bill Bain of Falls Church, Va.; Mae Dunagan and son, Mike, of Waxahatchie, Texas; and Debbie Smith and daughter, Jessica of Quito, Ecuador.

Mrs. Dunagan was born in Bibb County, Ala., on Oct. 4, 1892. When her family moved to Texas, they lived in Wise and Scurry Counties before settling in Gaines County.

The former Ada Lois Hicks and John Claiborne Dunagan, a Gaines County rancher, were married in 1913 at her family's home near Loop. The couple moved to Midland in 1925. Mr. Dunagan established Midland Bottling Company in Midland and built the Coca Cola Bottling Company plant at Monahans. He also was engaged in Permian Basin banking circles prior to his death in 1965.

The honoree has 19 grandchildren, 18 of whom attended the birthday celebration, 32 great-grandchildren, and eight

great-great grandchildren. One of her sons, Robert L. "Buddy" Dunagan, is deceased.

IT IS WITH REGRET that members of the Midland Woman's Club say good-bye to their gracious and very capable club manager of the past nine years, Beth Adcock Roberts. She will join her husband, former Midlander Wayne Roberts, who resides in the Austin area, where they plan to enjoy retirement life.

Beth and Wayne, who is retired from Southwestern Bell, were married last spring in Midland.

The club now has its welcome mat out for Susan Rives, who joins the staff as manager later this month. She comes here from the Dallas area.

FOLLOWING A HONEYMOON in New Orleans, Billy Snow and his bride, the former Maggie Schneider, will make their home in Kerrville. They were married the evening of Oct. 10 at St. Ann's Catholic Church, with a reception afterwards at Midland Country Club.

Pre-nuptial festivities began last April for the couple with an engagement party hosted by the bride's parents, Pat and Tom Schneider, at their home.

Other parties included a bridal shower held at the home of Mary (Mrs. King) Hughes. Co-hostesses were Mignon (Mrs. Bruce) Pearson, Pat (Mrs. Herb) Stanley, Joan (Mrs. Gil) Hilsman and Barbara (Mrs. Ed) Woodruff. In addition, a personal shower was held in San Antonio at the home of Allison Hunt, with Margie McGrath as co-hostess.

A bachelorette party was planned in Austin, with its many attractions, for the weekend of Oct. 3 by the bride's sister, Molly (Mrs. Reb) Clark.

The wedding week began with a Sip-n-See Party hosted by the bride's parents at their home. A bridesmaids' luncheon at the Petroleum Club was given by Mary (Mrs. Tom) Mann, Carmen (Mrs. J. Stewart) Martin, Corinne (Mrs. Toby) Carleton and Frances (Mrs. Max) Levin.

The rehearsal dinner was hosted by the groom's parents, Dean and Dan Snow of Irving, at the Saddle Club Apartments party room.

A wedding day brunch for out-of-town guests, family and hostesses was given at the home of Molly and Reb Clark. Also hosting were Maggie's other siblings, Laura, Thomas, Brian and Patrick and his wife, Jesse, in addition to family friends Jane and Tracy Clark and Jody and Jack Blake.

Marilyn McKnight-Harrison is social columnist for the Reporter-Telegram.

New England bright with fall foliage

By Jennifer Merin

BOSTON (AP) — New England's trees dressed for Fall. Sumacs and maples have turned bright red as aspen and birch take on a glorious golden glow. The entire landscape is ablaze with color.

New England's fabulous fall foliage show runs from late August to November, depending upon weather conditions. Nobody can predict Mother Nature's time schedule but the New England states try to aid leaf peepers by sponsoring hotlines with the latest information about current color conditions.

From mid-September through October, these reports give tourists an idea of when and where they'll see the best foliage displays in Maine (tel. 800-533-9595), Massachusetts (617-727-3201), Vermont (802-828-3236) and New Hampshire (800-258-3608).

In general, the further north you go, the earlier leaves change color. Experts say booking a week or weekend stay during mid-season is the best bet for experiencing the color in all its glory. But tourists seeking seasonal splendor will always have to take chances on dates.

It's the leaf peeper's dilemma. You want to wait until the last minute to check on the state of the leaves but booking lodging early is essential because hotels and inns fill up quickly during foliage season.

In Maine, U.S. Route 1, along the coast, offers exciting vistas of tree-topped, craggy granite cliffs jutting into the sea. Unspoiled scenic forests near quaint Boothbay Harbor, historic Pemaquid Point, Acadia National Park and charming Bar Harbor are considered highlights.

THE FAVORITE drive in Massachusetts is along U.S. Route 2. It meanders through forests, past Minute Man National Park, Deerfield and other historic sites, and — after crossing the Connecticut River — becomes the Mowhawk Trail. It goes through the beautiful Berkshires to North Adams and Natural Bridge State Park.

Viewing in Vermont begins in Burlington with strolls through the University of Vermont campus and the 45-acre Shelburne Museum, a collection of 37 historic buildings reconstructed within a lovely park. Lake Champlain ferries provide brilliant views of shore. To the northeast, the scenic Green Mountains feature Jay Peak with a summit-bound tram ride and spectacular vistas.

In New Hampshire, the White Mountains are great leaf-peeping territory. The summit of Mount Washington (above the timberline at 6,288 feet) — reached by road or cog railway — has grand overviews of brilliantly colored foliage. Other scenic stops include Franconia Notch and the Flume (an 800-foot long chasm along Mt. Liberty) and a winding mountain drive that loops around Loon Mountain and past Rocky Gorge to North Conway.

Most tourists travel through New England by car or tour bus,



AP Laserphoto

Lydia Smith, 5, left, and Bridget Bean, 7, serve a toy dog some pretend tea beneath a maple tree in the town of Industry, Maine. Fall

foliage in the New England states, which include Maine, are at their spectacular peak.

contacting the American Automobile Association, local tourist offices and their travel agents for advice concerning itineraries and lodging.

But several appealing travel alternatives can put a different spin on leaf peeping experiences.

FOR BICYCLISTS, Brooks Country Cycling & Hiking offers guided weekend bike/hike foliage tours of the Berkshires, visiting historic Lenox, Stockbridge, Hancock Shaker Village and the Norman Rockwell Museum. About \$450 per person covers accommodations and some meals. Call 800-284-8954 for dates, reservations. Backroads Bicycle Touring's five-day Vermont tours (with optional add-ons along the Connecticut River or to New Hampshire) leave

from Boston or Quechee, Vermont. Approximately \$995 will cover lodging in quaint inns and most meals. Bike rental costs \$100. Call 800-BIKE-TRIP for dates and reservations.

Amtrak's daily train service from New York City (leaving 8:45 a.m.) to Montreal (arriving 8:45 p.m.) runs along the scenic Hudson River, providing a full day of viewing pleasure for as little as \$68 roundtrip. (Hint: Sit on the left side of the train.)

Another Amtrak route follows the Hudson River to Albany, then turns west and follows the Erie Canal to Buffalo, for a full day of leaf peeping for as little as \$99 roundtrip. All seats on Montreal and Buffalo trains are reserved and tickets are refundable, so book early for lowest rates and

best locations. Other regularly scheduled trains between New York and Boston follow the coast or go inland via Springfield, Mass. Both routings cost about \$79 to \$100 per ticket but the Springfield route is preferable for leaf viewing. Call 800-872-7245.

NEW ENGLAND coastal cruises offer exceptional non-stop vistas of fall foliage. Luxurious Crystal Harmony's ten-day voyages between Montreal and New York overnight at Quebec, cruise the Gulf of St. Lawrence and Saguenay River, put in at Bar Harbor, Boston, Newport and other ports, with ample opportunity for passengers to see foliage up close. It's priced from \$2,385, covering shipboard meals and other activities. Call 800-446-6645.

CANYON: Rural area is slice of paradise

(From 1E)

par 4 stretch that slopes violently to the left at a 40-degree angle. The green on No. 4 is elevated to the extent that an elevator would come in handy.

A short walk or ride to No. 3 finds a par-3, 140-yarder that plays more like 110 yards due to the drop from tee to green. The third hole is buried in a pine-tree laden neighborhood of cabins, a place where even former Midland College president Dr. Jess Parrish thought so beautiful he calls it his home away from home.

THE REMAINDER OF THE holes on the course are laid out beside Hwy. 130 and overlook a scenic mountain across the highway. Holes 49 are mostly short, and reachable with a driver and wedge for the beginning golfer. The more experienced long hitter can find the greens on the par 4s in two with a long and short iron.

Guided horseback tours are offered at Chippeway Park. Tours are priced at \$10 per hour, per horse. If golf or horseback riding aren't your desire, simple drives in Cox Canyon are as scenic as they come.

At the southern edge of the canyon is the Rio Penasco Road. A 14-mile trip down a dirt road connecting Hwy. 130 and the Sunspot Highway (Hwy. 6538), Rio Penasco is perhaps the only place more scenic than Cox Canyon itself. Eleven miles down the dirt road off Hwy. 130 is Bluff Springs, which to the surprise of most every traveler features a 30-foot horse tail waterfall.

On the northern side of Cox Canyon, a 16-mile drive down the Sunspot Highway contains some of the most breath-taking mountaintop views and a wide variety of spruce, aspen and pine trees.

At the end of Sunspot Highway is the National Solar Observatory. A staff of 20 scientists and their families reside in the small community and study the sun's surface with the aid of several high powered telescopes.

Cloudcroft and the Cox Canyon area are located approximately 270 miles from Midland.

For more information about Cloudcroft or Cox Canyon, N.M., write Cloudcroft Chamber of Commerce, P.O. Box 125, Cloudcroft, N.M. 88317, or call (505) 682-2733.

Salt tries to join ranks of mythic, curative products

By Eben Shapiro

N.Y. Times News Service

Looking to avoid stocking runs? Try marinating new panty hose in a salt bath for three hours.

Morton Salt, hoping to join baking soda and vinegar on the list of household ingredients with mythic cleaning and curative properties, is running full-page advertisements in magazines like The Ladies' Home Journal and Better Homes and Gardens, listing "a million and one different things" to do with salt instead of, say, sprinkling it on steak.

Morton, the undisputed king of the saltcellar, is taking steps to combat years of having salt closely linked to a deadly threat — high blood pressure. As hundreds of food companies reinforce the negative image of salt by boasting

that their products contain little or no sodium, Morton is pushing ahead with an ad campaign schooling homemakers in such skills as making their own air fresheners by cutting oranges in half, removing the pulp and filling the peels with Morton Salt. Lysol, look out.

And crusty carpenters that subscribe to The Ladies' Home Journal are being instructed in the use of salt paste to strip rust from tools. Food-stain removal is yet another property ascribed to salt.

Earl Thorne, director of advertising and new product development for Morton Salt, acknowledges that a common thread runs through the hints. "The vast majority require significantly more salt" than table uses, he said. "If you are trying to remove a red wine stain, you have to pour a

bunch of it on there."

Thorne freely admits that Morton's campaign — an annual event now in its third autumn — is modeled on the success of Dwight & Church Co.'s 20-year-old program to expand sales of Arm & Hammer baking soda. The familiar baking soda is now in products ranging from toothpaste to cat litter.

But marketing experts said that Morton, a division of Morton International in Chicago, faced a more difficult challenge than Arm & Hammer, which was able to tap into a deep vein of folk remedies and uses for baking soda.

"The image of Morton seems very finite," said John Lister, a corporate identity consultant with Lister Butler Inc., in New York. "How do you make your identity stand for something more than just a commodity on food?"

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Julian Gold

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Westside Optical will sponsor the subject, "responsibility to this month."

All high school and sophomore participants. The first, second, and third place winners for the place entry will be judged against district competitors. Entries will be judged against district winners.

First-place district winners will receive an experience. Freedoms Foundation for a Confident Future will provide a ship funds for \$2,000.

Entries must be completed by contest deadline, and submitted to the contest office. For more information call 682-4509.

...ALTRUSA AL Inc. of Midland will sponsor the year's foreign exchange students with a covered p.m. Thursday Mary Vroman. Entries will be judged by the judges. All members attend and bring

...SURVIVOR support group friends of suicide meet 7:30 p.m. land's Memorial Center. Alaina at the hospice "Grief Care." For more information call 685-1561.

...AMERICAN of Retired Persons #256, will meet at Dellwood Senior Center. Fund

Members are sandwiches, cake, Bingo, cake walk and white elephant. Included in the

Persons aged 65 and over invited to attend members are in local chapter.

For more info call 5441 or 694-5561.

...ST. ANN'S sausage and cheese dinner through sausages, candles, and tins are available from St. Ann's and their families benefit the St. more information

...TUMBLEWEED Smocking Arts will meet 7 p.m. ship Hall of Grandchildren. Includes and Share of me demonstration skirts. For more info call 699-4351 or 682-

...MIDLAND University Women's on Eastern European, 1:30 p.m. Library. Dura C. erator. The pul attend...

...CHILD CARE conference, sponsored by cultural Extension presented 8 a.m. Allison Fine Art land College, 36

The conference provide training needs and interests who care for seniors are MC, Tex Human Services prizes Inc. and V. ation for the Ed Children.

Keynote speaker Laanen, extensionist from Texas, will discuss "Safe."

Attendance will provide information. Fee of lunch, conference TDHS clock hour Education U

To register, send order for \$15 to District 6. Ian Farr, Midland Box 1070, Midland. Late registration fee \$20 per person. Information call Midland Office at

...MIDLAND Association and Teachers Association a workshop 9 a.m. Odessa College. member of the Eastern University will be guest clinician "Practice Age Music"...



Westside Optimist Club of Midland will sponsor an essay contest on the subject, "Freedom: Our Responsibility to Preserve," beginning this month.

All high school seniors, juniors and sophomores are eligible to participate. The local club will select first, second- and third-place winners for the local contest; first-place entry will be entered in the district competition, where it will be judged against other club-winning entries from the Texas district.

First-place district winner will receive an expense-paid trip to the Freedoms Foundation at Valley Forge for a conference on the subject of freedom. Further competition success will result in scholarship funds for \$5,000, \$3,000 and \$2,000.

Entries must be original, completed by contestants without assistance, and submitted by Dec. 1. For more information call 686-4506 or 682-4509.

...ALTRUSA INTERNATIONAL Inc. of Midland will honor this year's foreign exchange students with a covered dish dinner 6:30 p.m. Thursday at the home of Mary Vroman. Entertainment will be by the Susie Hitchcock-Hall dancers. All members are urged to attend and bring guests...

...SURVIVORS OF Suicide, a support group for families and friends of suicide victims, will meet 7:30 p.m. Monday at Midland's Memorial Hospital and Medical Center. Alan Williams, chaplain at the hospital, will speak on "Grief Care." For more information call 685-1566.

...AMERICAN ASSOCIATION of Retired Persons, Midland chapter #256, will meet 6 p.m. Monday at Dellwood Senior Center for its annual "Fund Raising Night."

Members are asked to bring sandwiches, cakes, pies and chips. Bingo, cake walk, country store and white elephant sale will be included in the event.

Persons aged 50 and older are invited to attend. National AARP members are invited to join the local chapter.

For more information call 686-5441 or 694-5561.

...ST. ANN'S School's annual sausage and cheese sale will continue through Monday. Cheese, sausages, candies, nuts and collectible tins are available for purchase from St. Ann's School students and their families. Proceeds will benefit the St. Ann's PTO. For more information call 684-4563.

...TUMBLEWEED CHAPTER, Smocking Arts Guild of America, will meet 7 p.m. Monday in Fellowship Hall of Grace Presbyterian Church. Included will be Show and Share of members' works and demonstration of broom stick skirts. For more information call 699-4351 or 682-4018.

...MIDLAND SOCIETY of University Women will host a travelogue on Eastern Europe, including Yugoslavia, 1:30 p.m. Oct. 26 at Haley Library. Dora Clarke will be moderator. The public is invited to attend.

...CHILD CARE Provider Conference, sponsored by Texas Agricultural Extension Service, will be presented 8 a.m.-3:30 p.m. Nov. 7 at Allison Fine Arts Building at Midland College, 3600 N. Garfield.

The conference is offered to provide training which reflects needs and interests of all providers who care for children. Co-sponsors are MC, Texas Department of Human Services, Children's Enterprises Inc. and West Texas Association for the Education of Young Children.

Keynote speaker Dr. Peggy VanLaanen, extension nutrition specialist from Texas A&M University, will discuss "Food Safe/Child Safe."

Attendance at this workshop will provide six TDHS training hours. Fee of \$15 will include lunch, conference materials, six TDHS clock hours and 6 Continuing Education Units from MC.

To register, send check or money order for \$15 per person (payable to District 6 4-H Fund) to Marian Farr, Midland CEA-HE, P.O. Box 1070, Midland, Texas 79702. Late registration after Oct. 30 will be \$20 per person. For more information call Midland County Extension Office at 687-1351.

...MIDLAND MUSIC Teachers Association and Odessa Music Teachers Association will sponsor a workshop 9 a.m.-noon Oct. 24 at Odessa College. Ruth Morrow, a member of the faculty at Midwestern University in Wichita Falls, will be guest clinician. She will discuss "Practice Habits and the New Age Music"...

SEEDS FOR THOUGHT

Fall gardening makes springtime blossom

By Deborah A. Bengé

Without a doubt, fall is for planting. Cooler air and soil temperatures, fewer pests, milder climate extremes, all add up to excellent conditions for plant establishment.

Here's a checklist of yard and garden activities that can be done at this time of the year:

■ Fall is a good time to update or install the home landscape. To avoid making costly mistakes, get your plan down on paper. Even if you gradually develop your landscape, working from a good plan will save you money and time.

■ Trees, shrubs, ground covers and many perennials are best planted at this time. Root systems will grow and establish before the cold of winter sets in. Fall planted woody ornamentals have a prime

opportunity to establish a root system, whereas those same plants planted in the spring and summer have growing demands place on them before they have time to establish. Plus, spring and summer growing conditions are much harsher.

■ When harvesting pumpkins and winter squash, don't harvest until fully mature. Maturity can be determined by a tough skin that is resistant to thumbnail scratches. Cut the stems with a sharp knife and leave two inches of stem. For storage, brush off dirt but don't wash. Store at 50 to 65 degrees F, spread out in a single layer on cardboard, plywood, wooden pallets or layers of newspaper.

■ Be sure to plant your vegetable garden in "Elbon" cereal rye-grass. This cool-season cover crop will add organic matter to the soil when tilled in and reduce root knot nematode populations.

■ Start a compost pile. Leaves, grass clippings, pine needles, sawdust, pecan husks, shredded garden plants can be layered in a pile

with water and nitrogen. Locate your pile out of the way in a semi-shady location. A fancy "compost pile" or not so fancy — this is the way to go.

■ Plant cool-season, spring flowering seeds now. Larkspur, annual poppies (California, Mexican, Shirley, etc.), cornflower, sweet peas, bluebonnets and viola can be planted now for riotous color this spring.

■ Tropical and sub-tropical plants that have been enjoying the summer outdoors need to be prepared for indoors. Check pots and plants for beetles, sow bugs, grasshoppers and other insects. Small animals may be living in pots, so slip roots out of pots and take a look.

■ If your indoor plants have outgrown your house while outside this summer, you may want to look for winter boarding. Many garden centers and greenhouses board plants for the winter. Or donate your large plants to libraries, nursing homes and community centers.

■ Don't deep water your woody trees and shrubs at this time of the year. Stressing plants slightly for water will help induce dormancy, which will protect plants from winter kill.

■ Buy spring flowering bulbs now while the selection is still good. These can be held in a cool, dry location until you are ready to plant in October or November.

■ Kill hard-to-control weeds by spot spraying with glyphosate. Johnson grass, silver-leaf nightshade and field bindweed can be killed by spraying with a 2 percent glyphosate plus a surfactant.

Spray weeds that are still vigorously growing.

Don't miss this great fall weather. Enjoy it outdoors making the most of the time.

Texas Agricultural Extension Service has speakers and programs available for presentations at local clubs and organizations. To schedule a speaker for your group, call 687-1351.

Deborah Bengé is the extension horticulture agent for the Texas Agricultural Extension Service in Midland and Ector counties.

AT WIT'S END

Every home has its own language

By Erma Bombeck

Households with children in them are bilingual. They have to be, or there would never be communication between parent and child. Adults are fluent in cliché, while kids communicate by child speak. Ironically, both seem to know what the other is really saying.

From day one, I could watch an infant form bubbles, cross its eyes, pass gas, and say to my husband, "He wants a cookie."

"How do you know that?"

"If you spent more time with your son, you'd know that."

When kids start school, you really have to rely on your skills to translate what is actually being said.

"Miss Warms doesn't like me. I want to transfer out of her class because she is capable of violence." (Translation: Miss Warms assigns homework.)

"Everybody on the playground was running around and playing keep-away, but Mr. Krick singled me out to take to the office." (Translation: Possibly because you were the only one who had a volunteer supervisor airborne for five minutes.)

"I did too go to the library to study. I'm limping because I dropped 'David Copperfield' on my foot!" (Translation: David Copperfield is a code name for a first baseman.)

"Everybody else's mother said yes." (Translation: I'm one yes away from being Everybody Else's mother.)

"What do you mean what am I doing with the bedroom door locked? Nothin'!" (Translation: Call 911.)

Children also learn early to interpret what their parents are really saying. For example, when a mother says, "We'll see," it really means you don't have a prayer of getting what you want. She's stalling.

"A little fresh air is good for

you." (Translation: She wants to dish with your Aunt Mary on the phone and doesn't want you to eavesdrop.)

"Give me your Halloween candy and I'll freeze it." (Translation: She's going to scarf down the contents of the bag while you are in school.)

"This is going to hurt me worse than it hurts you." (Translation: This does not translate.)

"Your father and I love you very much but ..." (Translation: Something bad is going to happen to me at the end of the sentence.)

There are other means of communication between parent and child. A slammed door is worth 5,000 words. Humming and turning on the vacuum sweeper while a parent is talking is effective. My kids tell me I have a look that doesn't need words. It makes plants die.

Whatever it takes ... it's better than silence.

Erma Bombeck's column is distributed by Universal Press Syndicate.



Bombeck



Ladies Association meeting scheduled

Staff report

Green Tree Country Club Ladies Association will meet for luncheon and program Oct. 27 at the club. Social time will be 11:30 a.m. with luncheon to follow at noon.

Charlie Van Liew, Brenda Kothmann and Ellen West of Son Silks will present a program on "Creative Approach to the Basics."

Members are welcome to bring guests. For reservations call 694-8413 by Friday.

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Midland Reporter-Telegram

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Chimes of Liberty	Edwin F. Goldman
Dance of the Southern Lights	Eric Richards
<i>TSgt Mary Dildine: soloist</i>	
Dixieland!	John Warrington
<i>featuring Dixieland Express</i>	
SSgt Scott Vignani-Trumpet SrA David Bandman-Trombone SSgt Ricky Miller-Clarinet TSgt Ron Wilkins-Tuba SSgt Walter White-Drums	
Santa Fe Saga	Morton Gould
INTERMISSION	
La Boda del Luis Alonso	Geronimo Gimenez
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Ticket Holders Requested To Be Seated By 6:45 P.M.	Mail Requests For Tickets Self addressed envelope to the Midland Reporter-Telegram P.O. Box 1650 Midland, TX 79702 687-8876	Doors Open To The General Public At 6:50 P.M.
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DEAR ABBY

Potential lover fails romance test of '90s

By Abigail Van Buren

DEAR ABBY: I am a middle-aged woman who has not been sexually active for six years. I recently met a very nice gentleman who I thought had all the qualities I was looking for in a partner. (I'll call him Bob.)



Van Buren

On a routine appointment with my physician, I mentioned that I was considering becoming intimate with a new man in my life. The doctor gave me a long list of diseases I could possibly contract, and at the top of the list was AIDS. Without a moment's hesitation, I asked Bob to be tested for HIV.

He has been married for 22 years and only recently divorced. Although we are both considered "very low risk," I felt it was necessary to be tested for HIV, and I asked Bob to do the same.

He was insulted that I would even suggest that he had been sleeping with other women, and said he was glad he found out early that there would never be any "deep trust" between us! Bob chose to make a big issue out of this rather than simply agreeing to be tested, and I haven't heard from him since!

I was terribly disappointed in him, Abby. How do you see it? — NO NAME, PLEASE

DEAR NO NAME: Your doctor did you a great favor in reminding you of the risks involved in becoming intimate with a new man. It is possible your "nice" gentleman friend reacted negatively because it never occurred to him during his long marriage that AIDS could impact his own life, but obviously, Bob is unfamiliar with the realities of sex in the '90s. Your request that he be tested for HIV was neither unreasonable nor insulting, and I think you are lucky that he disappeared.

DEAR ABBY: I was married in the summer of 1990. I had a beautiful church wedding, followed by a sit-down dinner for more than 200 guests, and then a lovely reception. Now for my problem:

I still haven't sent any thank-you notes for my wedding presents. I had planned to enclose a wedding picture in each thank-you note, but I never got around to picking up the pictures, so I put off ordering the thank-you cards.

I feel just terrible that I haven't thanked these people formally with a card or written note, but I thanked them all verbally at my reception. Somehow, I feel that wasn't enough. Was it?

Abby, it's been so long that I'm terribly embarrassed, and I don't know how to go about it. Please tell me what to do at this late date. Should I just buy some store-bought thank-you cards? Or do I have to write individual thank-you notes? If so, what should I say? — EMBARRASSED

DEAR EMBARRASSED: Although the current etiquette experts say store-bought thank-you notes are in poor taste, they are better than none at this late date. I suggest that you buy some "ready-made" cards and add a brief personal message to everyone who gave you a wedding gift.

The message should say, "We're very much embarrassed to be writing at this late date to thank you for the beautiful (identify each gift if you can) ice bucket, fruit bowl, salt and pepper shakers, etc."

And how about asking your husband to help you?

DEAR ABBY: I can't seem to forget the letter from that girl who wrote to you saying that she HATED her freckles. I identified with her because I, too, grew up hating my red hair and freckles — millions of them! Then a young man who thought I was attractive enough to date sent me two dozen roses and enclosed this Dorothy Parker (I think) verse:

"Men lose their hearts and send their roses
To girls with freckles on their noses!"

Abby, I still remember that poem fondly — and quote it enthusiastically as needed. — AN AGING ROMANTIC

DEAR ABBY: I am writing to you because I would be embarrassed to ask anyone else, and I feel that you would know what is right and correct.

I lost my husband 13 months ago, and I am still wearing my wedding rings. My daughter says I should wear them on my right hand now. I was married for 52 years, seven months and three days. I never paid much attention to what other widows did about their rings. Please advise me, Abby. I don't want to look stupid. — MARY SMITH (NOT MY REAL NAME)

DEAR "MARY SMITH": There is no rule of etiquette about the length of time a widow should wear her wedding rings. Each woman may do whatever is comfortable for her.

Some widows remove their rings when they are interested in dating again — others never remove them.

Everything you'll need to know about planning a wedding can be found in Abby's booklet, "How to Have a Lovely Wedding." To order send a long (business-size), self-addressed envelope, plus check or money order for \$3.95 (\$4.50 in Canada) to: Dear Abby, Wedding Booklet, P.O. Box 447, Mount Morris, Ill. 61054. (Postage is included.)

Abigail Van Buren's column is distributed by Universal Press Syndicate.

BRIDGE WINNERS

These are the bridge winners for the week of Oct. 5.

MONDAY

1. Gloria Crites, Marie Morris
2. Ann Servatius, Dorothy Hill
3. Jimmie Branch, Leonora Slusher
- 4 and 5 tie. Mae Dell Johnston, Marian Mathews, Bill Fahrig, M. Johnston

TUESDAY

1. Elle Kerr, Ginna Potts
2. Gloria Crites, Marie Morris
3. Dixie Gifford, Mary Ann Ochs
4. Leonora Slusher, Jane Myers

WEDNESDAY

1. Belvin Reddus, Joe Brittain
2. Jimmie Branch, Leonora Slusher
3. Tip Branch, Gloria Crites
4. Ruth Fahrig, Ann Servatius

THURSDAY

1. Betty Yates, Betty Moudy
2. Marian Sims, Dixie Gifford

3 and 4 tie. Charlene DeLaune, Thelma Black, Millowee Mills, Jean Banks

NON-SMOKING

1. Ann Servatius, Frances Levin
2. Dixie Gifford, Jimmy Cox
3. Bob Baker, Gloria Crites
4. Craig Thompson, Fay Carey

FRIDAY

1. Marie Morris, Leonora Slusher
2. Ginna Potts, Jerry Williamson
3. Bob Baker, Gloria Crites
4. Marcella Cure, Joyce Mitchell

SATURDAY

1. Bob Baker, Bob Myers
2. Leonora Slusher, Marie Morris
3. Joe Salzman, George Faulk
4. Ann Servatius, Craig Thompson

SUNDAY

1. Jimmie Branch, Dixie Gifford
2. Bob Baker, Mary Ann Ochs
3. Leonora Slusher, Marie Morris
4. Mary Hammond, Beulah, Prichard

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- Become a registered professional in only six months
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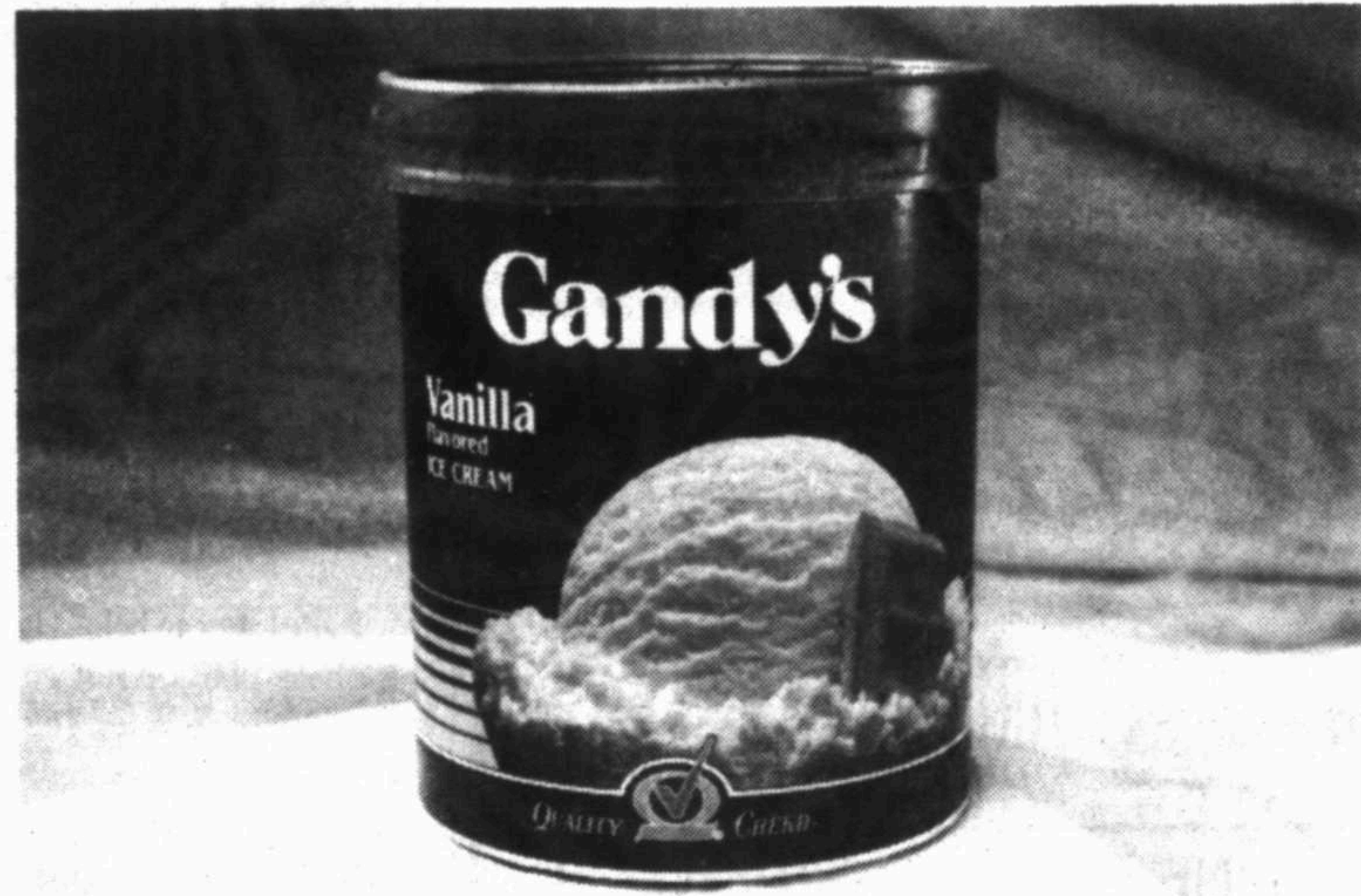
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| Press 3 | Information |
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Scoop up the great
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Every flavor, every day, Gandy's
Quality Chedd Ice Cream is a
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extra savings. Now that you've got
the scoop, go get some ice cream.

Gandy's



Ann Benjamin

Junior League plans program

Staff report

Ann Benjamin, M.Ed., will speak on "Building Children: What Kind of Parent Do You Want to Be?" 7 p.m. Tuesday at Allison Fine Arts Auditorium at Midland College. The talk, sponsored by Junior League of Midland Inc., is free and open to the public. For more information call 682-4732.

Ms. Benjamin, who has worked with school systems across the country as well as with professional and volunteer groups, is a licensed professional counselor and licensed marriage and family therapist in private practice in Edmond, Okla. She specializes in the treatment of young people and families.

She has been a counselor and coordinator of guidance services for grades kindergarten through eighth with the Edmond Public Schools. She also is a certified psychometrist and provides psychoeducational testing and evaluation.

As the founder of Life Management Seminars, Ms. Benjamin is a frequent speaker throughout Oklahoma and Texas. She has been a consultant to schools, organizations, corporations and universities.

She earned a bachelor of science degree in speech and hearing from State University College in Brockport, N.Y. She completed her master's degree at the University of Central Oklahoma in Edmond, where she recently was adjunct professor, and has committed to post-master's work at the University of Oklahoma and Oklahoma State University.

She helped organize the Edmond Task Force for Youth, was named to Who's Who by Cope magazine, and has given seminars on drug and alcohol issues for parents. Ms. Benjamin was selected to be on the Social Services Review Committee for the City of Edmond.

FABRIC warehouse

Fall Fashion FABRIC SALE

FALL FAVORITE
60" WIDE-100% COTTON
**SOLID
CHAMOIS**
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SIMPLICITY BUTTERICK,
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SPECIAL SELECTION
12 OZ. BAGS-100% POLY.
POLY FILLER
LIMIT 10
88¢ BAG

FABRIC warehouse
Reminder: New Saturday Hours - Open Till 8
Lower Prices Every Single Day
15 META DRIVE (IN THE VILLAGE)
683-5502
847 S.W. 20th St. (304-400)
SUN. 1:00-6:00

ENGAGEMENTS

JONES-MARTIN

Mr. and Mrs. Paul Allen Jones of Stanton announce the engagement of their daughter, Paula Rene, to James Alan Martin of Lubbock, son of Mr. and Mrs. Jack Martin of Petersburg. The wedding is planned for 7 p.m. Nov. 21 at First Baptist Church of Petersburg.

Miss Jones, granddaughter of Mrs. Paul K. Jones of Stanton, is a 1988 graduate of Stanton High School. She attended Western State College and South Plains Junior College. She is a student at Jessie Lee's School of Cosmetology in Lubbock. Her fiancé, grandson of Mr. and Mrs. J.W. Martin and Mr. and Mrs. J.B. Williams, all of Petersburg, graduated from Petersburg High School in 1981. He is employed with Cox Cable Vision of Lubbock.



Paula Rene Jones and James Alan Martin

LAMPHERE-MAROLT

Mr. and Mrs. Richard Way Lamphere of Midland announce the engagement of their daughter, Susan Allison Marolt, to Roger Anthony Marolt, also of Aspen. Parents of the future bridegroom are Mr. and Mrs. Maxwell S. Marolt of Aspen. The wedding is planned for 7:30 p.m. Dec. 5 at St. Ann's Catholic Church in Midland.

Miss Lamphere is a graduate of Midland High School and the University of Texas at Austin, where she earned a bachelor of business administration degree in accounting and a master's degree in professional accounting. She is a member of Kappa Alpha Theta and is a certified public accountant for Mike Otte and Company in Aspen. Her fiancé, a graduate of Aspen High School, earned a bachelor of business administration degree in economics from the University of San Diego, and a master of science degree in accounting and finance from the



Susan Allison Lamphere

University of Colorado. He is a certified public accountant and controller of Continental Divide Company in Aspen.

MANVILLE-PARKER

Mary Elizabeth Manville and Steven Don Parker, both of San Angelo, are planning a 6:30 p.m. Jan. 9, 1993, wedding at First Presbyterian Church in Midland. The bride-elect is the daughter of Mary A. Turner of Midland. The future bridegroom is the son of Mr. and Mrs. Price Parker of Midland.

Miss Manville, a senior majoring in education, is scheduled to graduate from Angelo State University in May. She is a lifetime member of Girl Scouts, a member of Carr Hall Association and Block and Bridle Club, and a student senator. Her fiancé is a senior at Angelo State majoring in animal science. He is a member of the student senate and Block and Bridle.



Mary Elizabeth Manville and Steven Don Parker

CRAWFORD-WHITE

Mr. and Mrs. Danny D. Smart of Midland announce the engagement of their daughter, Tonja Kay Crawford, to Christopher Joseph White, son of Mr. and Mrs. James L. White of Westminster, Colo. The wedding is planned for 7 p.m. Dec. 19 at Midland Church of God.

Miss Crawford, also the daughter of the late Tommy Crawford, graduated from Lee High School in 1987. She attended Midland College and currently is a student at Howard College Dental Hygiene School. She plans to complete her degree in May. Her fiancé attended Midland High School and MC, and is employed with Tergerson Foods.



Tonja Kay Crawford and Christopher Joseph White

TURNBOW-SANDERS

Kimberly Ann Turnbow of Midland and Brent Wade Sanders of Abilene are planning to be married 7 p.m. Dec. 19 at First Christian Church of Midland. Parents of the bride-elect are Robert and Barbara Turnbow of Midland. The future bridegroom is the son of Joe and Lyssa Sanders of Midland.

Miss Turnbow is a 1989 graduate of Lee High School. She is employed with The Village School. Her fiancé graduated from LHS in 1990. He is in the U.S. Air Force.



Kimberly Ann Turnbow and Brent Wade Sanders

LONGABAUGH-JOHNSON

Eva Denise Longabaugh and Christopher Kyle Johnson, both of Midland, are planning to be married 6 p.m. Nov. 14 at St. Paul's United Methodist Church in Midland. The bride-elect is the daughter of Margie Lee Head of Midland and Mr. and Mrs. W.T. Longabaugh of Gainesville. The future bridegroom is the son of Mr. and Mrs. Kyle L. Johnson of Midland.

Miss Longabaugh attended Midland High School and Midland College. Her fiancé is a 1990 graduate of MHS and a student at MC. He is employed with The Bosworth Co.

EDWARDS-BARNWELL

Leah Edwards and Jimmie Jason Barnwell, both of Midland, are planning to be married 2 p.m. Oct. 31 at First Baptist Church in Midland. The bride-to-be is the daughter of David B. Edwards and Frances I. Edwards. Parents of the future bridegroom are Mr. and Mrs. Hood Barnwell.

Miss Edwards is a 1990 graduate of Lee High School. She attended Midland College in 1991 and Odesa College this year. Her fiancé graduated from Port Neches Groves High School in 1989 and attended MC in 1991-92. He is employed with Street University Ministries.



Leah Edwards and Jimmie Jason Barnwell

Dolphins have amazing memory capacity

Associated Press

Dolphins, marine mammals that are smaller relatives of the great whales, have a memory capacity matching that of humans, and they remember strings of random numbers as well as or better than humans do, says National Geographic.

LIFESTYLE POLICIES

Policies for publication of announcements in the Lifestyle section of the Reporter-Telegram are:

Information for Sunday pages must be in our office by 5 p.m. the preceding Monday. For publication in a weekday paper, we must receive the information by noon two days before the information is to be published. For example, an item for Wednesday's paper must be received by noon Monday.

Engagement announcements must appear at least two weeks before the wedding date. Wedding announcements must appear within one month of the event. Anniversary announcements — 25th or higher — must be published within one month of the anniversary date.

Announcements of pageant winners will only be published for teenage pageants and older. Photographs will be published for winners only, not runners-up. These announcements are published Thursdays. Deadline is 5 p.m. Monday.

All articles must be submitted in writing. Forms for weddings, engagements and anniversaries, only published Sundays, are available in the Lifestyle office. All materials must include the signature and telephone number of the person submitting them.

We cannot mail forms to persons in Midland. Pictures must be picked up in the Lifestyle office within one month after publication. To have a photo returned by mail, include a self-addressed, stamped envelope. Unclaimed photos are discarded after one month.

Photographs may be submitted with wedding and engagement announcements, and anniversary announcements of 50 years or more, but are not required. A portrait of the bride-elect or of the future bride and bridegroom together may be submitted with engagement announcements. Portraits of the bride only or of the wedding couple may be submitted with wedding announcements. A different photo must be submitted for the engagement and wedding announcements.

Photos should be vertical, black and white, glossy finish, studio portraits. Studio color pictures may be submitted, but quality reproduction cannot be assured. Snapshots generally are not acceptable and Polaroid shots are not accepted. The MRT reserves the right to deny publication of any photo due to quality or content.

There is no charge for publication of photographs and stories.

ANNIVERSARIES

Thompsons observe golden anniversary Couple plans trip for silver celebration

Mr. and Mrs. David B. Thompson of Stanton celebrated their golden anniversary this month. Thompson and the former Winnie Irene Gardner were married Oct. 11, 1942. They have four children — Danny Thompson and Dale Thompson of Midland, DiAnna Anderson of Lindale and Darrell Thompson of Stanton — as well as five grandchildren.

The couple lived in Breckenridge, Littlefield and Midland before moving to Stanton in 1962. Thompson, a U.S. Army veteran of World War II, retired in 1990 as production foreman after 25 years with John L. Cox. His wife is a homemaker.



Mr. and Mrs. David B. Thompson

Beiers celebrate 25 years of marriage

Donald Duane and Charlene Annette Beier were married 25 years ago today. Beier and the former Charlene Annette Baker were married Oct. 18, 1967, in Bloomington, Ill.

The couple has two children, Annette Fae Beier of Fort Worth and Raylene Ann Gettis of Spanaway, Wash.

The Beiers lived in Bloomington from 1967-71; Tempe, Ariz., from 1971-80; and in Midland since 1980. They are employed in the insurance and oil industries, and are members of First Christian Church (Disciples of Christ).

SEBASTIAN

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The Complete Christmas Store

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LiteLife can help. LiteLife is a hospital based surgical weight-loss program. The LiteLife weight-loss procedure has the National Institute of Health's support as the most effective treatment for severe obesity. Most physician and hospital charges are covered by health insurance. (Medicare, Medicaid, and HMO's do not cover this procedure.)

More than 33 million Americans are seriously overweight, but a successful treatment is available. Join us for a free presentation by our physician, who is Board Certified and a Fellow of the American College of Surgeons. Please RSVP by calling our LiteLife number.

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2pm - 5pm
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WE

STRICKLAND

Donna Jan...
land became t...
Lee Smith Jr.,...
p.m. Sept. 26...
The Rev. Jan...
officiated.

The bride is t...
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Delta Marti...
matron of hon...
Carl Smith of...
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SANCHEZ

LAKE TAHOE...
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were married...
Lake Tahoe. T...
officiated.

The bride is...
Steve and Jud...
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bridegroom ar...
Midland and S...
Sedona, Ariz.

Linda Norw...
maid of hono...
served his son...
Kay Fox of Mo...
bridegroom, w...

The bride...
Berkner High...
the University...
She is a flight...
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Austin. He is a...
with Texaco Ex...
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BRYANT-C

ABILENE -...
Church in Abil...
for the 2 p.m...
of Melissa Ann...
Lee Cortez, bot...
Rev. Mike Patt...

The bride is...
and Mrs. Ken...
ville. Parents...
are Mr. and M...
Abilene.

Melanie Mob...
Ind., was matro...
sister. Michele...
ville, sister of...
of honor. Brides...
sa Stone of Lub...
tez of Abilene...
groom. Debby...
was bridesmat...
ant, sister of...
ny Bryant, niec...
of Stephenville.

Tony Carza...
best man. Gro...
ny Cortez, Joe...
Cortez of Abile...
of Oklahoma C...
the bridegroom...
rone Jackson...
Abilene. Jason...
nephew of the...
ring bearer.

Other attend...
Cortez and Jo...

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Associated P

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WEDDINGS

STRICKLAND-SMITH

Donna Jan Strickland of Midland became the bride of Dallas Lee Smith Jr., also of Midland, 7:30 p.m. Sept. 26 at The Midlander. The Rev. James A. Bradshaw officiated.

The bride is the daughter of Delton and Dorothy Strickland of Midland. Parents of the bridegroom are Claire Smith of Nederland and the late Dallas Lee Smith.

Delta Martin of San Angelo was matron of honor for her sister. Carl Smith of Midland served his brother as best man.

The couple lives in Midland.



Mrs. Dallas Lee Smith Jr.

GOBER-FLUD

ODESSA — Dana Gay Gober of Odessa became the bride of Joe Alan Flud of Midland 7 p.m. Sept. 28 at Noel Heritage Park in Odessa. Justice of the Peace Dennis Bright officiated.

The bride is the daughter of Mr. and Mrs. C.W. Gober of Odessa. Parents of the bridegroom are Mr. and Mrs. G.W. Flud of Midland.

Monica Taliaferro of Odessa was matron of honor. George Flud of Midland served as best man.

The bride is a graduate of Permian High School in Odessa. Her husband graduated from Seminole High School and is employed with Parker and Parsley in Midland.

The couple lives in Midland.



Mr. and Mrs. Joe Alan Flud

BAKER-ROBERTSON

COLLEGE STATION — Aldersgate Church in College Station was the setting for the wedding of Cheryl Lynn Baker and Scott Robertson. The Rev. Danny O'Quinn of Still Creek Boys Ranch officiated.

The bride is the daughter of Charles and Carol Baker of Austin, and the granddaughter of Bessie Baker of Midland and the late Bob Baker. Parents of the bridegroom are Jimmie Robertson of Seabrook and Mr. and Mrs. Frank Robertson of London, England.

The couple are graduates of Texas A&M University. After a wedding to Boston, and Prince Edwards Island in Canada, they live in College Station.



Mr. and Mrs. Scott Robertson

SANCHEZ-GRIFFIN

LAKE TAHOE, Nev. — Kimberly Ann Sanchez and Eric David Griffin, both of Midland, Texas, were married 6 p.m. Saturday in Lake Tahoe. The Rev. Robert Orr officiated.

The bride is the daughter of Steve and Judi Sanchez of Richardson, Texas. Parents of the bridegroom are David Griffin of Midland and Susanna Griffin of Sedona, Ariz.

Linda Norvell of Plano was maid of honor. David Griffin served his son as best man. Ashlee Kay Fox of McAllen, niece of the bridegroom, was flower girl.

The bride is a graduate of Berkner High School and attended the University of Texas at Austin. She is a flight attendant for Delta Airlines. Her husband is a graduate of Lee High School and UT Austin. He is a petroleum engineer with Texaco Exploration and Production Inc.



Mrs. Eric David Griffin

Following a wedding trip in Lake Tahoe and Maui, Hawaii, the couple will reside in Midland.

REYES-STOUTE

Melba Reyes of Midland became the bride of Charles Gregory Stoute, also of Midland, 2 p.m. Saturday at St. Ann's Catholic Church in Midland. The Rev. Fred Nawarskas officiated.

The bride is the daughter of Rogelio and Nora Reyes of Fort Stockton. Parents of the bridegroom are Charles and Melba Stoute of New Iberia, La.

Carol Sledge of Houston was maid of honor. Kelly Bateman of Midland was matron of honor. Bridesmaids were Nanette Reyes and Leticia Garza, both of Midland and sisters of the bride, and Grace Pulk of Double Oak.

Scott Stoute of Longview served his brother as best man. Groomsmen were Bill Cleary of Arlington, Brian Romere of Houston, Glen Papp of Farmington, N.M., and Sonny Rix of Bakersfield, Ca. Ushers were Tony Buchanan of Mid-



Mrs. Charles Gregory Stoute and Jaime Martinez of Longview.

The couple will honeymoon on St. Maarten in the Caribbean.

RIDEOUT-SHERRILL

HONOLULU, Oahu — A lania of the Outrigger Waikiki Hotel in Honolulu was the setting for the 3:30 p.m. Sept. 21 wedding of Kristie Leigh Rideout of Aurora, Colo., and Robin Ray Sherrill of Highland Ranch, Colo. Capt. Ken Middleton officiated.

The bride is the daughter of Mr. and Mrs. George Thomas Rideout of Midland, Texas. Parents of the bridegroom are Mr. and Mrs. Harold Ray Sherrill of Hobbs, N.M.

The bride earned a bachelor of science degree in business administration in 1986 from Lubbock Christian College. She is a senior accounting assistant for Texaco in Denver. Her husband earned a bachelor's degree in accountancy in 1981 from New Mexico State University. He is financial analyst with Texaco in Denver.

Following a wedding trip in



Mr. and Mrs. Robin Ray Sherrill

Oahu, the couple lives in Highland Ranch, Colo.

BRYANT-CORTEZ

ABILENE — Wylie Baptist Church in Abilene was the setting for the 2 p.m. Saturday wedding of Melissa Ann Bryant and David Lee Cortez, both of Midland. The Rev. Mike Patterson officiated.

The bride is the daughter of Mr. and Mrs. Ken Bryant of Stephenville. Parents of the bridegroom are Mr. and Mrs. Ray Cortez of Abilene.

Melanie Mobley of Valparaiso, Ind., was matron of honor for her sister. Michele Bryant of Stephenville, sister of the bride, was maid of honor. Bridesmaids were Melissa Stone of Lubbock and Ana Cortez of Abilene, sister of the bridegroom. Debby Reiling of Amarillo was bridesmatron. Heather Bryant, sister of the bride, and Tiffany Bryant, niece of the bride, both of Stephenville, were flower girls.

Tony Carza of Abilene served as best man. Groomsmen were Danny Cortez, Joe Cortez and Mark Cortez of Abilene, and John Cortez of Oklahoma City, all brothers of the bridegroom. Ushers were Tyrone Jackson and Louis Flores of Abilene. Jason Spell of Abilene, nephew of the bridegroom, was ring bearer.

Other attendants were Matthew Cortez and Joseph Cortez, neph-



Mrs. David Lee Cortez

ews of the bridegroom, and Cambria Cortez, niece of the bridegroom, all of Abilene.

The bride graduated from Stenograph Institute of Texas in Abilene and is employed with Permian Court Reporters. Her husband attended Cisco Junior College in Abilene and is employed with Sears.

After a honeymoon in Ruidoso, N.M., the couple will live in Midland.

URRUTIA-GRACE

St. Nicholas Episcopal Church in Midland was the setting for the 7:30 p.m. Saturday wedding of Diana Urrutia and David Thomas Grace, both of Midland. The Rev. Jon S. Stasney of St. Nicholas and the Rev. Alvin Wilde of St. Stephen's Catholic Church officiated.

Parents of the bride are Mr. and Mrs. Carlos Urrutia II of New Orleans. The bridegroom is the son of Mr. and Mrs. Robert McCary Grace of Midland.

Ana Maria O'Neal of Slidell, La., sister of the bride, was matron of honor. Bridesmaids were Sandra Monica Sales of Houston, sister of the bride, and Laura Raines Urrutia of Tucson, Ariz. Bridesmaids were Patricia Urrutia of Baton Rouge, La., sister of the bride, and Michelle Breeding and Cynthia Bennett of Midland. Sarah Jane Wilson of San Antonio, niece of the bridegroom, was flower girl.

John Charles Grace of San Antonio was best man for his brother. Groomsmen were Robert McCary Grace Jr. of Midland, brother of the bridegroom; David Hoy Harrison of Midland; Shawn Wesley McCarter of Denver; Michael Stewart Collins of Dallas; and Walter Paul Miller of Houston. Ushers were Travis James Sales of Hous-



Mrs. David Thomas Grace

ton; Carlos Urrutia III of Addison, brother of the bride; Hal Loring Roach Jr. of Houston; Albert Urrutia of Tucson, brother of the bride; and Whitney Rob Hughes of Tokyo. Charlie Jackson III of San Antonio, nephew of the bridegroom, was ring bearer.

Also attending the couple were J.K. Wilson IV and Jack Wilson of San Antonio, nephews of the bridegroom.

After a wedding trip to St. John, U.S. Virgin Islands, the couple will live in Midland.

ELIZALDE-MORGAN

HOUSTON — Laura Lucille Elizalde and Jonathan Lewis Morgan were married 7 p.m. Sept. 19 at Annunciation Catholic Church in Houston. The Rev. James Golasinski officiated.

The bride is the daughter of Minerva Elizalde of Elsa and the late Arturo B. Elizalde. Parents of the bridegroom are Betty Jo Morgan of Midland and Wynan Morgan of Crowley, La. He is the grandson of the late Mr. and Mrs. James Lewis Greene, and the late Mr. and Mrs. Solomon Morgan.

Thelma Elizalde of Houston served her sister as maid of honor. Bridesmaids were Norma Montalvo Petroszewicz, Ancira Garza Cortez, Laurie Katherine Lee and Michele Marie Rogerson, all of Houston. Flower girls were Sarah and Stephanie Van Hoose of Austin.

Nicholas Crumly of Corpus Christi was best man. Groomsmen were Troy Arnold of Houston; Robert Elizalde of Elsa, brother of the bride; Michael Morgan of San Diego, brother of the bridegroom, and Dr. Vernon Johnson of Galveston. Ushers were James Rogerson and Clifford B. Taylor, both of Houston.

Also attending the couple were Cynthia Ann Perez and Beatriz Gomez of San Antonio; Jaime Elizalde of Austin, brother of bride; and Mr. and Mrs. David Elizalde of Boston.



Mr. and Mrs. Jonathan Lewis Morgan

The bride is a graduate of the University of Texas and the University of Houston Law Center. She is partner in the law firm of Elizalde, Burger and Curry, P.C. Her husband earned a mechanical engineering degree from Rice University and a master's degree in business arts from the University of Houston. He is marketing manager for Cameron Forged Products Division of Cooper Industries in Houston.

Following a wedding scuba trip to Ambergris Caye, Belize, the couple will reside in Houston.

Please see WEDDINGS/8E

Designing own makes engagement ring more personal

Associated Press

Why not design your own engagement ring? Most jewelers either have or can order an assortment of stones in a variety of shapes, sizes, colors and cuts for you to choose from, the American Diamond Industry Association notes. After that, all you need is a sketch or perhaps a style shown in a magazine to use as a departure point.

"When you buy an unmounted

diamond you can make that stone 'yours' by helping to create a truly unique setting of your own design," says Lloyd Jaffe, ADIA's chairman.

Another advantage in buying a loose stone, he says, is that the couple will feel more secure and in control if they've been involved in the ring's creation.

And they will know exactly what components affect the cost. The stone itself will be priced according to its color, clarity, carat

weight and cut (known as the 4Cs).

Choosing the stone will be easier if you know what to look for, according to Lazare Kaplan International, which markets diamonds:

■ Cut, not weight, is what determines the diamond's brilliance. The proportion of the design and skill of the cutter can maximize the play of light through reflection and refraction. Cut shouldn't be confused with shape. A well-cut stone can outshine a larger one with a lesser cut.

■ Looking at the unmounted diamond against a white background, unaffected by the setting, is the best way to judge color, which can range from clear (rare and extremely valuable) to yellow, with various shades in between.

■ Clarity is determined by how noticeable natural marks (inclusions) are under 10-power magnification.

■ Fire refers to the ability of the stone to disperse light in rainbow colors.

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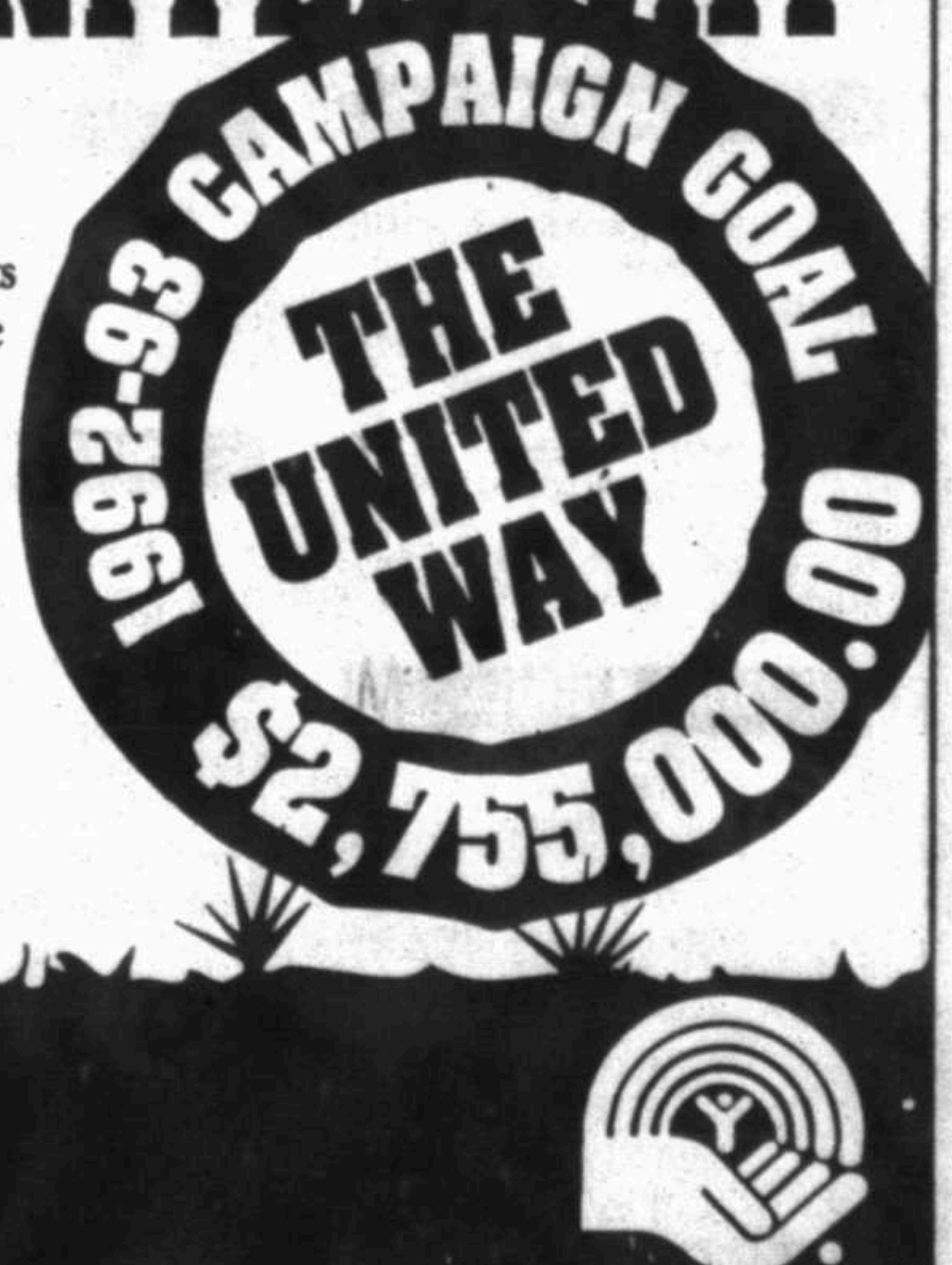
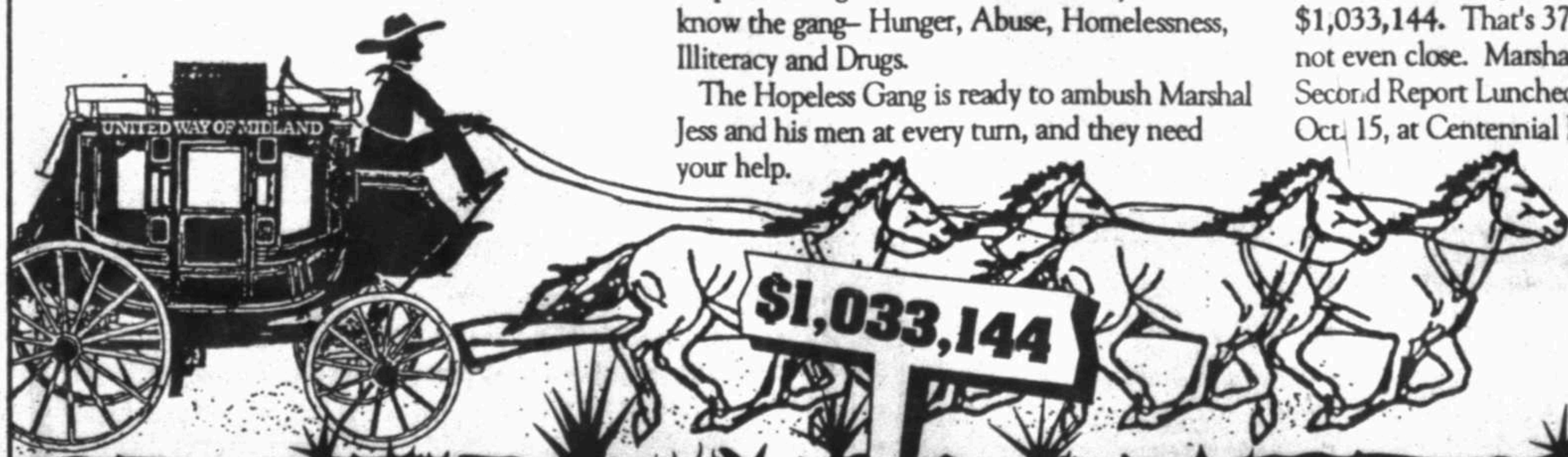
Marshal Jess Parrish and his posse are trying to raise \$2,755,000 which will be used to run the Hopeless Gang out of Midland County. You know the gang—Hunger, Abuse, Homelessness, Illiteracy and Drugs.

The Hopeless Gang is ready to ambush Marshal Jess and his men at every turn, and they need your help.

Just like a hundred years ago, Midlanders have got to pull together to help their friends and neighbors.

So far, Marshal Jess and his deputies have raised \$1,033,144. That's 37.5 percent of the goal and that's not even close. Marshal Jess needs your support at the Second Report Luncheon at 11:30 a.m. Thursday, Oct. 15, at Centennial Plaza. It features free food and entertainment.

United Way—it's how the West is being won.





Barbara Mandrell

Confidence plus modesty add up to Mandrell's success

By Georgia Todd Temple
Staff writer

For Barbara Mandrell, a successful career requires determination, modesty, self-honesty and confidence.

"In any area of your life, in any field, it's important to be modest and not be a conceited personality. However, between you and yourself, all the confidence in the world is required," Miss Mandrell said.

"It takes a lot of guts and confidence to step on stage and have people viewing you as if you're under a microscope."

Miss Mandrell — along with the Do-Rites — is to perform at Midland College's Chaparral Center Wednesday. A show business veteran of 29 years, she has received more than 60 awards, including Country Music Award's Female Vocalist of the Year twice, nine People's Choice awards and six American Music awards as Favorite Female Country Music Vocalist.

She also was the first artist to win the Country Music Association's coveted Entertainer of the Year Award for two consecutive years — 1980 and 1981.

Ms. Mandrell launched her career at age 10 on a television and radio show in Bakersfield, Calif. She credits her success to an appearance on the Joe Maphis Show in Las Vegas, to years of practice and to her television series.

"Because I started as a child, it is not a figure of speech that I grew up in this

business. I did literally, and the nine years that I gained experience as an entertainer before I ever became a recording artist was my university; that was my learning," Miss Mandrell said.

"When I did begin to record, when I had success with hit records, I had already had experience of what to do when you get on stage to entertain the people that come to see you, the person with the hit records. That was important."

"I think the weekly series was a real major point in my career because I had just won the Country Music Association's Female Vocalist of the Year. That was the first time I won it. I went on to win it again the next year."

"I was performing for and in front of thousands of people each year, and I thought people knew me. But I started doing television and we averaged 40 million people a week watching. That's just mind-boggling."

Miss Mandrell was born in Houston and lived in Corpus Christi until she was 6, when her family moved to California. She loves performing in Texas.

"I, of course, love Texas," she said. "I think Texas has more state pride than any of our 50 states, and I feel I am a real authority on that because I have worked in and been in all 50 states. I feel like I'm coming home, and I feel very excited every time I work Texas."

Miss Mandrell thinks show business has two sides. Please see **MANDRELL**

/2F

Puccini's 'La Boheme'

By Georgia Todd Temple
Staff writer

Puccini's "La Boheme," a tragic four-act opera, is to be presented by Western Opera Theatre at 8 p.m. Saturday at Midland High School Auditorium.

"La Boheme (The Bohemians)," first performed in Turin, Italy, in 1896, was based on a collection of stories "Scenes from Bohemian Life" written in Paris by Henri Murger in 1848.

Set in the youthful and romantic milieu of bohemian Paris, "La Boheme" contains some of Puccini's best-known and beloved music.

"Everyone's heard the music of 'La Boheme,'" said Robin Hodgkin, sales and marketing manager for San Francisco Opera Center, parent company of WOT.

"It was probably made familiar to modern audiences in the movie 'Moonstruck.' That's the opera they went to see at the Metropolitan."

"To me, in particular, this 'Boheme' is really moving because it has such an Italian feeling to it even though it takes place in Paris," said Ms. Hodgkin.

"Because Puccini was Italian, I think that concept of an Italian directing the production in Paris makes sense. Besides, what could be more romantic than Italians and Frenchmen?"

Puccini's opera concerns the trials of young artists struggling to make ends meet, their enthusiasms, their loves, their laughter and tears.

"These are all young singers," Ms. Hodgkin said. "It was originally written about these young artists and that combination of having young voices sing this beautiful opera just creates a wonderful overall production."

"And because it's sung in English, it's so accessible to even those of us who are bohemians today, or who just love the idea of young love in Paris."

"La Boheme," being brought by Midland Opera Theater, is sponsored by Shell Oil Co. Foundation and Arts Assembly of Midland. Tickets, \$12.50 for adults and \$10 for students and senior citizens 65 and older, may be purchased by calling MOT at 684-4101.

MOT's season also includes the New York City Opera Quartet performing in "An Evening of Opera Highlights" Nov. 12 and "Opera in the Park" in April. Tickets to the November performance are \$5.

"La Boheme" will be staged with a full orchestra, Ms. Hodgkin said.

"Our orchestra is from San Francisco," she said. "Almost 80 percent of the (WOT) players return every year. They love playing on the road, and, as musicians (they say) 'Playing 'La Boheme' is their favorite opera



In this scene from "La Boheme," Musetta and Alcimodoro drink wine at Cafe



Mimi and Rodolfo try to say goodbye but can't.

"To me, in particular, this 'Boheme' is really moving because it has such an Italian feeling to it even though it takes place in Paris. Because Puccini was Italian, I think that concept of an Italian directing the production in Paris makes sense. Besides, what could be more romantic than Italians and Frenchmen?"

— Robin Hodgkin, San Francisco Opera Center

... because musically there's never a dull moment."

"La Boheme" marks WOT's second visit to Midland. Last year the traveling opera company presented "La Traviata." The leads will be performed here by Lorraine Baeza and Matthew Lord.

Created in 1967 by Kurt Herbert Adler, WOT was the first opera company to tour throughout the West

and perform in English.

"We're an interesting company because we travel in repertoire," Ms. Hodgkin said. "One might sing the lead role of Mimi one night and the next night sing in the chorus. That gives a production an additional cohesive musical ensemble because each artist is so used to supporting the other artists that it really adds to the overall musical enthusiasm."

Air Force band's sounds to take flight at MHS

By Georgia Todd Temple
Staff writer

Patriotic music and Dixieland jazz will resound throughout Midland High School Auditorium Wednesday when the U.S. Air Force Air Training Command Band performs here.

The 7 p.m. free concert, titled "A Southwest Portrait," will include a band overture, a march, a medley of Dixieland favorites and a tribute to 1950s music.

All of the selections have some tie to the Southwest, said Captain Steven Grimo, commander and conductor.

"We try to do a program that has variety," Grimo said. "Anybody can come, and they'll hear something they like. At

the end of the program we do the traditional flag wavers — 'Stars and Stripes Forever,' 'American the Beautiful' — wave the flag proudly."

This year marks the first time the ATC Band has presented Dixieland music.

"We started it when I arrived in December, and I used it on the tour," Grimo said. "They wear barbarshop-type hats, and they play right up front to the audience an authentic Dixieland routine. It's going over great. The audiences get involved. They get caught up in the singing."

The ATC Band is stationed in San Antonio and performs in a four-state region: Texas, Oklahoma, New Mexico and Louisiana.

Concert tickets available

Staff report

Tickets to Wednesday's free concert by the U.S. Air Force Air Training Command Band may be picked up in Midland at Daily Planet News, Pages and Prints, Mainstream Music, Gene Bartus Fine Men's Wear, Foods Fantastic, Baldwin Piano & Organ Center and Athletic Supply; in Odessa at English Tweeds; and in Stanton at Stanton Drug.

The concert is sponsored by the Reporter-Telegram. The auditorium is being provided courtesy of MISD.

Ticket holders are asked to be seated by 6:45 p.m. At that time the doors will be open to those without tickets.

"Our responsibility is recruiting, community relations and military support in the bases in the area as well as community relations and recruiting endeavors," said Grimo, who was a high school band direc-

tor for 10 years.

Grimo, who grew up with several members of the group Roomful of Blues, also taught several years at the University of Rhode Island.

He said he arrived at his current position "one

step at a time."

"When I finished my master's, I started working at the college level. I knew if I wanted to work any further in college music, I needed to complete a doctorate at some point."

Grimo knew that securing his doctorate meant he would need to stop teaching and return to school. Then the musicians' union magazine carried an advertisement that the U.S. Air Force was looking for band directors.

"They were having auditions, so I applied for one," Grimo said. "I was selected in the finals, and I was offered a commission, and I was assigned to a band."

"That's given me an opportunity to finish my doctorate and use my

GI Bill and my military benefits to complete schooling, and I've gotten a great job in the process. I haven't had the desire to go back and teach at a university."

Grimo said after teaching for so long, he likes working with professionals.

"There's a lot of pleasure in working with adults who know how to play and come in and handle their job professionally."

"Teaching is work; teaching is a calling. There's a lot of demands on nurturing young people."

When he first joined the Air Force, he thought he would stay in for four years, but he's going on eight. "Until they throw me out, I'm going to stick around for a while."

OCT 18 1992

MANDRELL: Singer loves giving concerts in Texas

(From 1F)

"Show is something they must see to show them," she said. "Otherwise they might as well stay home and listen to recorded material. And it is a business; it must be handled like one."

As for Miss Mandrell's Midland performance, those attending can expect to see a show, she said.

"They will see nine of us on stage, but it took right at 30 of us to get that show on stage. There's eight men and they are an incredible group who work very hard."

"We change our show totally every year. This is a show you have not seen. We are very proud of it. The audience response has been really exciting. We kick it really hard on stage."

"I hope and pray that those who come to the show in Midland will have a wonderful time. That's the name of the game for me. Forget about everything in life except having a

really great time."

When she is on tour, she gets lonesome on the road and misses her family — Nathaniel, who just turned 7, Jaime, who is 16, Matthew, who is in college, and husband, Ken Dudney.

"I'm very lonesome for all of my children," Miss Mandrell said, recalling that the night before she left on tour, first-grader Nathaniel read his first book to her.

"Every night I read to him. In this month, he's supposed to read four books to us. I really love books."

It was the combined support from her husband and other family members that allowed Miss Mandrell to return to performing after almost losing her life in an automobile accident in 1984.

"It was quite tragic," said Miss Mandrell, who has no memory of the accident itself. "It robbed my two oldest children and I of years of our lives. We don't even hardly remember them. They don't exist."

Female singers gain ground in country music

By Michael Corcoran
Associated Press

DALLAS — In the midst of country music's celebration of its recent prosperity comes a most telling statistic: Only about 15 percent of the records on the Billboard country singles and albums charts are by female artists.

Though country has long been a male-dominated genre, that percentage is even low compared to country's post-"Urban Cowboy" depression a decade ago, when the likes of Barbara Mandrell, Crystal Gayle, Janie Fricke, Sylvia, Anne Murray and Juice Newton could be counted on for regular schmaltzy smashes.

The conventional wisdom has long been that women make up three-quarters of country music buyers and are more likely to buy records by men.

But a recent Recording Industry Association of America survey indicates that only half of country records are bought by women. Females are buying the hunk, but then so are males.

Pam Tillis, racing up the charts with the single "Shake the Sugar Tree," thinks things are getting better for female artists in spite of what the charts may say. "I don't think women were previously respected in Nashville like they are

now," says the daughter of Mel Tillis. "They were expected to stand there and look pretty and not make any waves."

But then Loretta Lynn sang "The Pill" and Dolly Parton wrote her own songs, and the "attitude (toward women) started changing," she said.

Ms. Tillis also credits Rosanne Cash for breaking ground for the latest slew of introspective country females. "Rosanne proved that the public was ready for personal, touching songs from the women's perspective."

Suzi Bogguss' recent Country Music Association Horizon Award as best new artist showed that the

Nashville establishment is willing to expand its expectations of female artists. At the time of awards voting, Ms. Bogguss was zooming up the charts with "Letting Go," which is about a daughter leaving home to go to college — not your usual country theme.

Ms. Bogguss, whose new album is "Voices in the Wind," is a folk-based pop singer who grew up listening to Linda Ronstadt and Joni Mitchell.

And on her breakout LP, "Aces," Ms. Bogguss had more control than is usual in Nashville: She's listed as co-producer.

Like Ms. Bogguss, Ms. Tillis values her creative freedom and has

input on every level of her career. "The most important thing for me is to write songs (she co-wrote five on the new LP, "Homeward Looking Angel") or find ones which strike a chord inside me," Ms. Tillis says. "I don't consciously seek out songs by female writers, though I use some, because I just want the best songs period. Great writers like Guy Clark and John Prine can tap into their feminine side and write incredibly songs from the female perspective."

Ms. Bogguss says it's important for women artists to keep their voices strong and their vision clear.

"This is one way that I know that the citizens of Midland appreciate what my husband does and one assurance that he'll come home in the morning." Julia Williams



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Midland Reporter-Telegram

Investment

SUNDAY, OCTOBER 18

American Airpower Heritage Museum: EXHIBIT: "A Sleeping Giant Awakens," through October '93, 9600 Wright Drive, Midland International Airport, Monday-Saturday 9 a.m.-5 p.m., Sunday noon-5 p.m., call 563-1000.

Art Institute for the Permian Basin: EXHIBIT: "Visions of the Night Fires" by Bill Worrell, through Nov. 1, And: "Three-Dimensional Works," from the Jeff Parker Collection, through Nov. 1, And: "In Focus," through Nov. 1, 4909 E. University, Odessa, Hours: Tues.-Sat. 10 a.m.-5 p.m., Sun. 2-5 p.m., call 1-368-7222.

Fredda Turner Durham Children's Museum: EXHIBITION: "Adventures in Archaeology: Ancient People of the Permian Basin," through April 18, Tuesday-Thursday noon-5 p.m., Friday-Saturday 10 a.m.-5 p.m., Sunday 2-5 p.m., for more information call 683-2882, FREE.

Gallery 1114: EXHIBITION: "Land, Light and Sky," by Travis Beckham, through Oct. 22, 1114 North Big Spring St. 1-5 p.m. Thursday-Sunday, call 685-9944, FREE.

Marian Blakemore Planetarium: SKYSHOW: "The Dawn of Astronomy," 2 and 3:30 p.m., 1705 W. Missouri Ave., 570-7770.

Midland College's McCormick Gallery: EXHIBITION: Midland Arts Association's annual Juried Fall Art Exhibition, through Oct. 24, 3600 N. Garfield, Mon.-Thurs. 8 a.m.-10 p.m., Sat. 9 a.m.-5 p.m., Sun. 1-5 p.m., call 685-4708, for MAA call 687-5878.

Midland County Friends of the Library: BENEFIT: Friends of the Library Annual Used Book Sale, one-half price clearance, 1-3 p.m., Midland County Exhibit building, call 683-5713, FREE.

Midland-Odessa Symphony & Choral: MUSIC: Thouvenel String Quartet, opening concert of the season, 3-5 p.m., Art Institute for the Permian Basin, Odessa, ADMISSION CHARGED.

Museum of the Southwest: EXHIBITION: "Woody Crumbo Serigraphs," through Nov. 8, And: "Crossing Boundaries: Sculptures by Allan Houser," through Nov. 22, And: "W. Herbert Dunton: A Taos Master," through Dec. 27, And: "Casas Grandes Pottery: Ancient Pottery from Mexico, through Dec. 30," And: "The Mountains and the Sea," watercolors by Robert Kiskadden, through Jan. 10, 1705 W. Missouri Ave., call 683-2882. Regular hours: Tuesday-Saturday 10 a.m.-5 p.m., Sunday 2-5 p.m.

Permian Basin Petroleum Museum: EXHIBITION: "Fire and Smoke: The Kuwait Oil Fires," through Oct. 31, call 683-4403 for more information, 1500 I-20 West, Monday-Saturday 9 a.m.-5 p.m., Sunday 2-5 p.m., call 683-4403, ADMISSION CHARGED.

MONDAY, OCTOBER 19

Nita Stewart Haley Memorial Library: BOOKS/EXHIBITIONS: Bob Marrs Saddle Exhibit, 9 a.m.-5 p.m., through Oct. 30, 1806 Indiana Ave., 9 a.m. to noon and 1 to 5 p.m. Monday through Friday, call 682-5785.

Smocking Arts Guild of America: MEETING: "Broomstick Skirt Demo," 7 p.m., Grace Presbyterian Church, call 689-6932 or 689-4351.

University of Texas of the Permian Basin: EXHIBITION: Alumni Exhibition, through Oct. 30, Monday-Thursday 9 a.m.-9 p.m., Friday 9 a.m.-5 p.m., 4901 E. University, Odessa, call 1-367-2136, FREE.

West Texas Songwriters Association: MEETING: 7 p.m., Coors Distributing Co., call 689-0213 or 550-3002.

TUESDAY, OCTOBER 20

ClayDesta Corporation: CONCERT: Sack Lunch Series, Midland-Odessa Symphony & Choral,

Information on Midland cultural groups listed in this column is provided by Arts Assembly of Midland, Midland's umbrella organization for the arts.

To be included in the Midland Marquee or to receive information on Midland arts organizations which are not among those listed today, please call Arts Assembly of Midland, 687-1149.

11:45 a.m.-12:45 p.m., ClayDesta Atrium, FREE.

Marian Blakemore Planetarium: SKY SHOW: "West Texas Skies," 7:30 p.m., call 683-2882 or 570-7770, small ADMISSION CHARGED.

Midland County Public Library: CAMPAIGN: Elect to Read campaign begins, vote for favorite author at Midland County Library, Monday-Thursday 9 a.m.-9 p.m., Friday-Saturday 9 a.m.-6 p.m., call 688-8991.

Museum of the Southwest: VIDEO: noon, 2 and 4 p.m., FREE.

Presidential Museum: EXHIBIT: "Federal Lampoon," a collection of political cartoons, through Dec. 31, 622 N. Lee St., Tuesday-Saturday 10 a.m.-5 p.m., 1-332-7123.

WEDNESDAY, OCTOBER 21

Art Institute for the Permian Basin: VIDEO: "West of the Imagination: PART I, The Romantic Horizon," noon, 4909 E. University, call 550-3811.

Permian Basin Petroleum Museum: LECTURE: "Kuwait Fires," with David Thompson of Boots and Coots, 7:30 p.m., call 683-4403, FREE.

THURSDAY, OCTOBER 22

Midland Community Theatre: DRAMA: Arthur Miller's "All My Sons," joint effort with Midland College, 8 p.m., 2000 W. Wadley Ave., for reservations call 682-4111.

Midland Gem & Mineral Society: MEETING: 7:30 p.m., Sibley Learning Center, call 686-7442, FREE.

Midland-Odessa Symphony & Choral: MUSIC: ensemble performance Lone Star Brass Quintet, Mainstreet, noon-1 p.m., Odessa's Noel Plaza.

Nita Stewart Haley Memorial Library: ART SHOW: Southwest Impressionists Art show, 6:30-9 p.m., 1805 W. Indiana Ave., call 682-5785, FREE.

FRIDAY, OCTOBER 23

Midland Community Theatre: DRAMA: Arthur Miller's "All My Sons," joint effort with Midland College, 8 p.m., 2000 W. Wadley Ave., for reservations call 682-4111.

SATURDAY, OCTOBER 24

Gallery 1114: OPENING: "New American Talent: The Seventh Edition," sponsored by the Texas Fine Arts Association and the Arts Assembly of Midland, RECEPTION: 7 p.m., 1114 N. Big Spring St., call 685-9944, FREE.

Midland Community Theatre: DRAMA: Arthur Miller's "All My Sons," joint effort with Midland College, 8 p.m., 2000 W. Wadley Ave., for reservations call 682-4111.

Midland Opera Theater: OPERA: "La Boheme," sponsored by Arts Assembly of Midland and Shell Oil Co. Foundation, 8 p.m., Western Opera Theatre of San Francisco production with orchestra, sung in English, Midland High School Auditorium, call 684-4101, ADMISSION CHARGED.

Permian Playhouse: CHILDREN'S THEATRE: "Ransom of Red Chief," 2:30 p.m., Odessa, call 1-362-2329, ADMISSION CHARGED.

Permian Basin Square and Round Dance Association: SQUARE DANCE: "High Sky Squares," 7 p.m., M-Square, call 694-0751, DONATION.

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CROSSWORD PUZZLE

Edited by James C. Boldt and Joyce Nichols Lewis

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Alvin of the Chipmunks thinks
he's another Billy Ray Cyrus

NASHVILLE, Tenn. (AP) — Alvin of the Chipmunks, famous for his inattentiveness in "The Chipmunk Song," now fancies himself as a Billy Ray Cyrus clone.

He's singing "Achy Breaky Heart." And he's begging Cyrus for dance lessons, though he has trouble getting his feet right. He's even pondering changing his name to Alvin Ray and wonders how long it would take to grow a ponytail like Cyrus'.

It's all included in the new album "Chipmunks in Low Places." The title is a takeoff on Garth Brooks' song "Friends in Low Places." On the LP, the Chipmunks sing country songs like Cyrus' "Achy Breaky Heart" and 10 others.

Joining Alvin, Simon and Theodore either to sing or chat are Cyrus and country stars Charlie Daniels, Alan Jackson, Waylon Jennings, Aaron Tippin and Tammy Wynette.

As usual, the mischievous Alvin commands most of the attention on "Chipmunks in Low Places." He doesn't ask for a Hula-Hoop like he did in "The Chipmunk Song," but he does ask Cyrus if women will throw themselves at the trio when they perform "Achy Breaky Heart."

Cyrus, who shot to fame this year with "Achy Breaky Heart," tells the three he's impressed that they have done his hit tune.

"I never dreamed as a kid that the Chipmunks would record one of my songs," Cyrus says on the album.

Alvin is still stirring trouble, though. On this album he puts glue in mentor David Seville's boots, forcing Seville to wear them everywhere, including the bathtub.

"Alvin is always disobeying Dave, getting into trouble. All kids can relate to that," said Ross Bagdasarian Jr., whose father David Seville created the Chipmunks.

Alvin is pictured on the album cover, resplendent in a huge red cowboy hat, red cowboy boots and giant belt buckle with an A in the middle.

Singing country music is nothing new for the Chipmunks. In 1981, their album "Urban Chipmunk" was a million-seller as a spoofy spinoff on the John Travolta movie "Urban Cowboy."

Actually, the trio are quite versatile. In 1980, the three put out the album "Chipmunk Punk," where they sang tunes by Billy Joel, Tom Petty and others.

And every Christmas season, they resurface with "The Chipmunk Song," which was released in 1958 and quickly sold more than 4 million copies.

"I hardly run into anybody who didn't have that song in those days," said Bagdasarian, whose California company now markets new Chipmunks' projects. "Over a period of time, it's taken its place as a real holiday tradition along with 'White Christmas' and 'Ru-

dolph the Red-Nosed Reindeer."

Alvin and the Chipmunks also have been a cartoon series on network TV. They're currently on the Fox network. And in 1987, they starred in their first animated feature film, "The Chipmunk Adventure," now on home video.

The Chipmunks were created by Ross Bagdasarian Sr., also known as David Seville, who played the Chipmunks' human foil. He died in 1972, and his son Ross Jr. and daughter-in-law then carried on the Chipmunks' projects.

The Chipmunks' voices, original-

ly done by Seville, are now played by the younger Bagdasarian and his wife, Janice.

Songs on the new album besides "Achy Breaky Heart" include "Stand by Your Man," "Don't Rock the Jukebox" and "Down at the Twist and Shout."

Alvin, incidentally, finally got his Hula-Hoop a few years ago on the album "A Chipmunk Christmas."

"We felt the poor kid deserved something after 25 years," Bagdasarian said.

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HOROSCOPE

SUNDAY, OCTOBER 18, 1992

HAPPY BIRTHDAY! IN THE NEXT YEAR OF YOUR LIFE: You will be able to expand your area of influence, and interest prominent people in a special cause. Employment affairs show steady improvement as winter approaches. A pay raise or promotion is possible early in 1993. Although long distance travel will not prove especially useful, shorter trips can advance your business goals next spring. Do not let your co-workers or subordinates get the impression that you are lording it over them.

CELEBRITIES BORN ON THIS DATE: singer Chuck Berry, actress Pam Dawber, boxer Thomas Hearns, football coach Mike Ditka.

ARIES (March 21-April 19): Avoid getting overly involved in a friend's personal problems. Family bonds are strengthened by talking and sharing. You naturally take the lead.

TAURUS (April 20-May 20): Take the reins; take a chance — good things happen when you show initiative! Romance, money or a fabulous bargain materializes right before your eyes. Enjoy a glamorous night on the town.

GEMINI (May 21-June 20): You can be quite the go-getter when buying, selling or talking shop. An afternoon outing fulfills your need for socializing. A quiet evening at home lets you prepare for the busy week ahead.

CANCER (June 21-July 22): Keep up your guard today; there are signs of deceit or disappointment. By evening, your thoughts will turn to romance and an old friendship. It pays to go slowly.

LEO (July 23-Aug. 22): Although you can make beautiful music working alone now, it would be a good idea to share your plans with a loved one. Constructive suggestions can save you both time and money.

VIRGO (Aug. 23-Sept. 22): You have the power to bring a favorite dream to life. Your residential or family plans progress nicely. Trying something different will put new spring in your step.

LIBRA (Sept. 23-Oct. 22): Stormy emotions could mean rough sailing today. It may be safest to lie low. Steer a careful course in money matters. A period of quiet meditation brings peace of mind.

SCORPIO (Oct. 23-Nov. 21): Today is no time to hide your feelings. Express your love openly to someone who may be suffering doubts. Your home could make a splendid refuge for those in need of sympathy.

SAGITTARIUS (Nov. 22-Dec. 21): Something a friend or neighbor tells you is sweet music to your ears. Spending money on romance or entertainment shows what your priorities are.

CAPRICORN (Dec. 22-Jan. 19): A friendship or romance could short-circuit. Stay on good terms if you can, but refuse to be played for a fool. Buy only top-quality merchandise when clothes shopping.

AQUARIUS (Jan. 20-Feb. 18): The success of a long-term project is in your hands. Move ahead with your financial plans, but choose your confidants with care. An artistic hobby leads to extra money in the bank.

PISCES (Feb. 19-March 20): Use your energies wisely. Otherwise, you will be too tired to enjoy socializing. Veer away from discussing controversial subjects until next week.

GOREN BRIDGE

WITH OMAR SHARIF
& TANNAN HIRSCH
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BRIDGE IS A TOUGH GAME

North-South vulnerable. North deals.

NORTH
♠ 7 3
♥ A K Q 9
♦ K 6 4
♣ A 10 9 2

WEST
♠ K 10
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SOUTH
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The bidding:
North East South West
1 NT 2 ♦ 3 ♥ Pass
4 ♥ Pass Pass Pass
Opening lead: King of ♠

PUZZLE ANSWER

10/18/92

Museum to host Pumpkin Party

Staff report

A Pumpkin Party for children pre-school through elementary age is being hosted by the Museum of the Southwest, 1705 W. Missouri Ave., from 2:30 to 4:30 p.m. on Halloween, Oct. 31.

Ritzie Williford and Annalon Gilbreath, as Mother Goose and The Legend Lady, respectively, will tell scary, funny, creepy and goose-pimply stories appropriate to the ages of the children. Mother

Goose will give instructions on how to turn into a witch. Both are members of the Story Tellers Guild.

Other activities will include a costume parade, games and mask making. Halloween goodies will be served.

Children must bring an adult with them. Tickets, priced at \$1 per child with a \$5 limit per family, will be available at the door. For more information call 683-2882 or 570-7770.

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ENTERTAINMENT IN BRIEF

Fall Festival continues

The Fall Festival of Music series continues at First Presbyterian Church, 800 W. Texas Ave., at 3 p.m. today.

This week's concert, "An Afternoon of Chamber Music," features mezzo soprano Eileen Farrell, French horn player Adam Norris, pianist Shari Santorelli and organist Lester Ackerman.

The program will feature a variety of chamber music ranging in style from the music of Bach to works by contemporary composers.

Ms. Farrell, a native of Minnesota, has been featured with Opera Colorado, The Denver Chamber Orchestra and The Montana Choral.

Norris plays with the Midland-Odessa Symphony and the Lone Star Brass Quintet. He also is the private horn teacher for the Ector County Independent School District.

Ms. Santorelli is the principal pianist for the MOS and is on staff at Midland College. She also maintains a private teaching studio here.

Ackerman is director of Music Ministries at First Presbyterian and is responsible for beginning the Festival Music Series, which has been expanded to 12 concerts annually.

All concerts are free and open to the public. Nursery care is provided and a reception in the church parlor will follow the concert.

Auction to aid library

Works by the Southwest Impressionists Group will be on display at the Nita Stewart Haley Memorial Library, 1805 W. Indiana Ave., Thursday through Nov. 23.

The exhibition opens with a public reception at 6:30 p.m. Thursday. Each artist has donated a painting to the library that will be auctioned by drawing at 7:30 p.m. The proceeds are to benefit the library.

Formed five years ago with the intent of artistic growth and pro-

motional advancement, the Southwest Impressionists include Mary Rasmussen, Charles N. Pruitt, Doris Spies and Don L. Parks.

Ms. Rasmussen, who works in watercolor and oil, paints primarily landscapes and still lifes. She is represented by Southwest Gallery, Dallas, and The Main Arterie, Angel Fire, N.M.

Pruitt was accepted in the 1991 Arts for the Parks in Jackson Hole, Wyo., and the Allied Artists of America 1991 Show in New York City. He is represented by galleries in Texas, Oklahoma, California, Arizona and Florida.

Ms. Spies received the William Henry Earle Award at the Breckenridge Fine Art Show. She is represented by the Gordon Gallery, Santa Fe, N.M., and Don Cheeks Gallery, Taos, N.M.

Parks was accepted in the 1992 Arts in the Parks in Jackson Hole, Wyo.

Plays focus on family

Lee High School Theatre Arts 1992-'93 season focuses on family.

The season opened with "Life with Father" and will continue with John van Druten's play "I Remember Mama" Dec. 4 and 5. The play is based on Katryn Forbes' heartwarming story of American life, "Mama's Bank Account."

"The Long Christmas Dinner," Thornton Wilder's exceptional study of a family over a 90-year period, will be presented March 24 and 27. The poignant play will be the contest play for the University Interscholastic League competition.

The yet-to-be-named annual musical — pending production rights — will be presented May 14-15. The all-school musical will be a joint LHS theatre and choir presentation.

Season tickets may be purchased for \$25. They allow the user eight punches, four of which can be used for the musical. Individual admissions to shows are \$5 each or \$10 for the musical.

Curator to give lecture

Michael Graner will present a lecture and slide presentation at 2:30 p.m. today at the Museum of the Southwest, 1705 W. Missouri Ave.

Graner, who is curator of art at the Panhandle-Plains Historical Museum, will speak on W. Herbert Dunton, a Taos master.

A reception follows. A retrospective catalog is available for purchase at the museum. For more information call 683-

2882. Museum hours on Sunday are 2 to 5 p.m.

Crafts festival to end

BIG SPRING — The 17th annual Big Spring Arts and Crafts Festival concludes today in the Dorothy Garrett Coliseum.

More than 250 exhibitors from throughout the Southwest are exhibiting original art, limited edition prints and handcrafted items. Hours are noon to 5 p.m. No admission is charged.

The event includes a drawing to benefit the Permian Basin Food Bank.

Organizer of the festival is Mel Prather, 1-263-7690.

MCT extends 'Sons'

Arthur Miller's classic drama "All My Sons" is proving to be as popular with Midland audiences in 1992 as it was with Broadway audiences in 1947.

As a result, Don Bachmann, Midland Community Theatre's executive director, has added three performances to the run of the show. The additional performances are scheduled for 8 p.m. Thursday through Saturday.

The production is a combined effort between MCT and Midland College. Tickets are \$6 and \$8. For reservations call the box office, 682-4111, between 10 a.m. and 5 p.m. weekdays.

Christie play upcoming

POST — Agatha Christie's "Ten Little Indians" is being presented at the Garza Theatre, 226 E. Main St., today, Thursday through Oct. 25 and Oct. 29 through Nov. 1.

Curtain is 7:45 p.m. Sunday matinees are at 2 p.m. On theater nights, the OS Ranch Foundation Museum, 201 E. Main St., will be open until 7 p.m. No admission is charged.

For more information call 1-800-846-3706 or 1-806-495-4005.

Show booths available

FORT STOCKTON — The 17th annual Arts and Crafts Show hosted by the Women's Division of the Fort Stockton Chamber of Commerce is set for Nov. 21 at the Pecos County Civic Center, Pecos Highway West 285.

Booth space will be available until Oct. 30. The standard size, 10 by 10, including one table and two chairs, rents for \$25; a corner booth with two tables and two chairs rents for \$35.

Food booths, inside and outside, are \$35. For more information or to reserve space write Evelyn Brown, Women's Division Arts and Crafts, 605 Arnett, Fort Stockton, 79735 or call 1-336-5620.

Clint Black to perform

Houston native Clint Black is to give a benefit concert for the American Diabetes Association Oct. 27 at Odessa's Ector County Coliseum.

Tickets, priced at \$19, may be purchased in Midland at Midland Sound, in Odessa at Sound Connections and in Big Spring at Circuit Electronics. Fan club tickets are only available at Sound Connections.

Special guest for the concert, sponsored in part by KNFM, is Little Texas. Tickets may be charged by phone by calling 1-800-462-7979.

Van Shelton is at fair

DALLAS — Country music superstar Ricky Van Shelton will be joined by popular rising star Michelle Wright for the Marlboro Music Concert at 6 p.m. Thursday on the Miller Lite Mainstage at the State Fair of Texas.

Admission to the Marlboro Music Concert is free for state fair visitors. Fair admission is \$8 for adults, \$4 for senior citizens age 60 and over, and \$4 for children under 48 inches tall. Children under 2 are admitted free.

Park displays photos

CARLSBAD, N.M. — The Living Desert State Park is opening a showing of Dr. John Martin Campbell's photos of prairie school houses Friday.

A reception is planned for 7 p.m. Saturday. There is no charge for the reception but reservations are requested by calling the Carlsbad Chamber of Commerce, 1-505-887-6516 and asking for Rose Buber.

The show is sponsored by the Pecos River Arts and Science Council. The show will be on display through Nov. 8.

'Captain Kangaroo' is finally off the air

By John Engstrom
Hearst News Service

"Captain Kangaroo," the longest-running children's program in TV history, has left the air.

The show, which aged sadly and ungracefully in recent years on PBS, was pulled from distribution near the end of August.

Bob Keeshan, who has played the captain for nearly four decades, says his show died from lack of funding.

"Absent support from corporate America, we had no choice," he said.

After 37 years as the captain, with one brief break, Keeshan knows he may be finished — bad dutch-bobbed hair, bozo sideburns, silly skits, old-time sidekicks and all.

Keeshan, 65, first played the captain on Oct. 3, 1955, on CBS.

The show aired on that network for 29 years, until it was axed in late 1984.

After an 18-month hiatus, "Captain Kangaroo" reappeared somewhat shakily on PBS in 1986.

"Every year was a struggle just to get the show on the air, so this really came as no surprise," Keeshan said.

"Captain Kangaroo" grew tiresomely repetitious during the PBS years, as the same sketches played over and over. Keeshan said he had no money to do new skits, so the PBS shows were 90 percent reruns of material cribbed from episodes that aired the final few seasons on CBS.

Keeshan said "Captain Kangaroo" was airing on more than 170 public television stations when it was pulled.

"We don't pay any attention to ratings on PBS, as you know. But of course we really do, and it rated

among the top three children's programs, along with 'Sesame Street' and 'Mr. Rogers' Neighborhood."

But the captain was no longer competing on PBS only with "Sesame Street" and "Mr. Rogers."

"Shining Time Station" joined the children's show lineup in January 1989 and has become extremely popular.

This year a couple of new children's shows — "Barney & Friends" and "Lamb Chop's Play-Along" — premiered on PBS, increasing the competition for time slots and ever-scarce funding.

At least one observer of children's TV programming tolls no bells of mourning for "Captain Kangaroo."

"I was a fan of the old shows, and they were terrific for their era, but no particular program has to be on the air forever," said Peggy Charron, president of Action for Children's Television, a national citizens-action group.

Ms. Charron says the new "The Ghostwriter Hour" is "one of the most exciting shows for kids in a long while."

The show, from The Children's Television Workshop that also produces "Sesame Street" and "Square One TV," is designed to encourage literacy in children ages 7 to 10. It features a character who leaves written messages in various places — computer, mirror, blackboard, etc. — as clues to help children solve mysteries.

Ms. Charron said she became a fan of "Captain Kangaroo" in the late 1950s, when her daughter, now 36, watched it.

CINE 4
3207 West Cuthbert 697-3204

HERO PG-13
2:00 4:30 7:20 9:40

THE MIGHTY DUCKS
2:15 4:20 7:30 9:45 (PG)

CONSENTING ADULTS
2:00 4:20 7:20 9:45 (R)
NO PASSES NO VIP'S

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1:05 3:10 5:10 7:10 9:10

HONEY I BLEW UP THE KID
1:00 2:55 4:50 7:00 9:55

DEATH BECOMES HER (PG-13)
1:10 3:15 5:20 7:25 9:30

STAY TUNED (PG)
1:15 3:15 5:15 7:05

BOOMERANG (R)
3:05 9:00

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BARGAIN MATINEES EVERY DAY
ALL SHOWS STARTING BEFORE 6 PM

MIDLAND PARK MALL
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CANDYMAN
2:45 5:00 7:10 9:35 R

UNDER SIEGE
2:40 5:10 7:30 9:50 R

HELLRAISER
2:45 5:00 7:20 9:30 R

SNEAKERS
2:00 4:45 7:25 10:00 PG13

NORTH PARK
697-3243 BILLINGSLEY BLVD. & LOOP 350

SARAFINA
2:35 5:00 7:30 9:40 PG13

MR. BASEBALL
2:30 4:50 7:35 9:50 PG13

LAST OF THE MOHICANS
2:20 4:45 7:25 9:50 R

CAPTAIN RON
2:30 4:35 7:30 9:30 PG13

Walt Disney PICTURES
presents
THE MIGHTY DUCKS

2:15 4:20
7:30 9:45

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"THE OSCAR RACE BEGINS WITH
'THE LAST OF THE MOHICANS.'
DON'T MISS IT!"
— Jeff Craig, SIXTY SECOND PREVIEW

THE LAST OF THE MOHICANS

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UNDER SIEGE

STEVEN SEAGAL

General Cinema
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2:40-5:10-7:30-9:55



PERMIAN BASIN OIL REPORT

Oil Show Edition

Section AA
Midland Reporter-Telegram
Sunday, October 18, 1992

INSIDE



Working rigs

Experts are predicting that the second half and last quarter of 1992 will show a slight improvement in drilling as operators take advantage of AMT relief, new drilling opportunities, improved natural gas prices and a rush to qualify for Section 29 credits.

Please see DRILLING/17AA

Railroads

Railroads played a significant role in the development of the Permian Basin by bringing equipment, people, capital, and land to drilling ventures. And before pipelines were built they served as the only transporter of crude oil to the refining markets.

Please see RAILROAD/19AA

Gas head

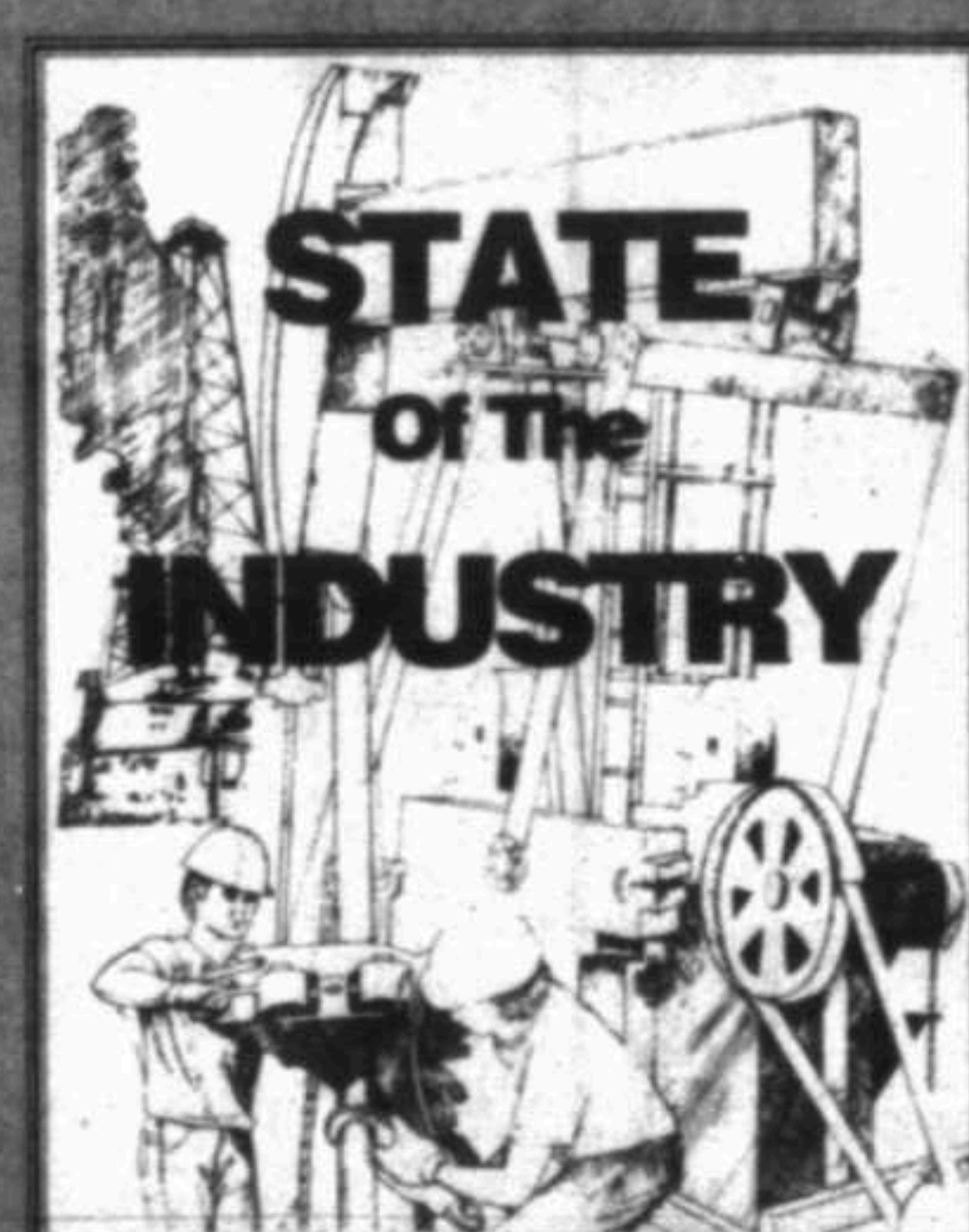
Analysts are predicting that the balance between supply and demand in the natural gas market are coming closer together and will probably have a positive impact upon natural gas prices.

Please see GAS/20AA

Employment woes

The federal government gets the blame from the American Petroleum Institute in a study that showed 450,000 oil industry workers lost their jobs in the last 10 years. API, in its study, blamed the government for failing to help develop both onshore and offshore oil and natural gas resources.

Please see JOBS/6AA



This edition

This Oil Show edition of the Permian Basin Oil Report, a mixture of history, news, and features, was written and created to provide Oil Show visitors a glimpse at some of the events, issues and technology that have impacted the Permian Basin oil industry, since the last Oil Show in 1990.

The edition provides a look at our roots, and an examination of events that have shaped us, and continue to shape us. It also looks forward at the issues, events and technology that is likely to shape the destiny of the Permian Basin in the years to come.

This Oil Show Edition is significant in that, a new sense of optimism and turnaround is in the air, and this year could signal the year things begin to get better for the industry.

In short, you might call this edition a report on the state of the Permian Basin oil industry.

For additional state of the industry news see:

- SECTION BB...The Oil Show
- SECTION CC...Technology
- SECTION DD...Changes
- SECTION EE...Natural Gas
- SECTION FF...Local



Photos: Curt Wilcott

Photo design: John Paul Pitts

The composite, above, of a modern rig posed with Santa Rita No. 1 in the background, is a reminder of how far the Permian Basin oil industry has come and the up and down turns it has taken in the process.

Turnaround time?

By John Paul Pitts
Business/Oil editor

This year marks a solid decade of downturn, in which 400,000 jobs have been lost from the oil industry, since the price of oil started going south in 1982. The good news is that 1992 could also mark the end of that era of economic devastation, and the start of an era turnaround.

The sweet smell of better days is strong in the air, and more and more individuals in the oil industry are noticing it. One can sense a definite, positive mood shift. It is a uplifting mood brought about not by any single event but a string of positive events that all put together, heavily outweigh the reasons for things getting worse.

One does not have to apologize for feeling optimistic these days. There are many reasons turnaround makes sense.

■ PENT UP DEMAND — One of strongest indicators for turnaround is pentup demand. The principal is

■ Analysis

simple — the longer that something that needs to be done goes undone, the stronger the pressure to do something grows. That is the situation that prevails in the oilpatch today.

For years prospects that need to be tested, fields that need to be developed, projects that need to be launched and remedial work have all gone undone, and now the pressure to do something is swelling. Good business practices dictate that economic opportunity simply cannot be put on the shelf indefinitely. The time to go back to work is ripe.

■ SORTING IT OUT — Lack of capital, heavy debt, soft gas prices and scars from the crash of the oil industry are some reasons for present inactivity. But the prime reason is the probably the confusion and disorga-

Please see TURN/3AA

Geologists' understanding of basin changes

■ The Permian Basin is the only area in the United States named for a geological feature.

By Brenda K. Cunningham

It's no secret geology is the foundation of Permian Basin wealth. Flat, arid and treeless, it's what's beneath the surface that makes the difference here.

Over the years the geology has not changed, but our understanding of it has. And in the years to come, as Permian Basin operators try to squeeze even more from the known formations and fields, that understanding will need to be expanded even further.

Besides the 18 pages of fine-print listings under "Oil" in the Yellow Pages, a short drive through Midland's residential areas finds streets named after oil companies — Seaboard, Stanolind, Gulf, Humble, Shell. Then there's the streets named for Permian formations — Wolfcamp, Devonian and the misspelled Sprayberry Avenue.

Add to that the page and a half of business names in the telephone directory beginning with "Permian" and "Basin," and you begin to get some idea of the significance of this geological province that is known around the world.

What exactly is the Permian Basin? From a geologic perspective, it is not a simple definition. Volumes have been written about the Permian Basin.

For practical purposes, it's been defined geographically as the area between the subsurface Matador Arch (northern Bailey, Lamb, Hale, Floyd and Motley counties) to the north and the Marathon, Texas, thrust area found at the surface and in the subsurface to the south, a distance of about 280 miles.

East to west, the Basin's limits are described by north-south lines drawn at the eastern border of Hudspeth County on the west, and the western limits of Tom Green/Coke counties 220 miles to the east.

This area covers an amazing 57,000 square miles, but the Permian Basin area of influence has been painted as a much bigger picture, extending over 100,000 square miles.

PALEOZOIC ERA — But the phrase "Permian Basin" in itself is misleading. Permian is the name given by geologists to a specific period of the Paleozoic Era that began over 200 million years ago. It is named for rocks first recognized in the Russian province of Perm.

Even though there was indeed a basin here during Permian time, geology that is economically important to us now began long before the Permian.

Much of the Permian Basin's oil is produced from carbonate rocks: limestones that were deposited in shallow seas, some of which were later converted to a different form of carbonate known as

dolomite.

Over 400 million years ago, the Ellenburger Group carbonates were deposited in such a sea. One can actually walk through the Ellenburger in the caverns of Longhorn State Park near Austin.

Extending over large areas of the midcontinent, the Ellenburger has produced significant quantities of oil and gas at depths from less than 4,000 to greater than 25,000 feet beneath the surface of the earth. Following Ellenburger deposition, an important depression known as the Tobosa Basin began to form.

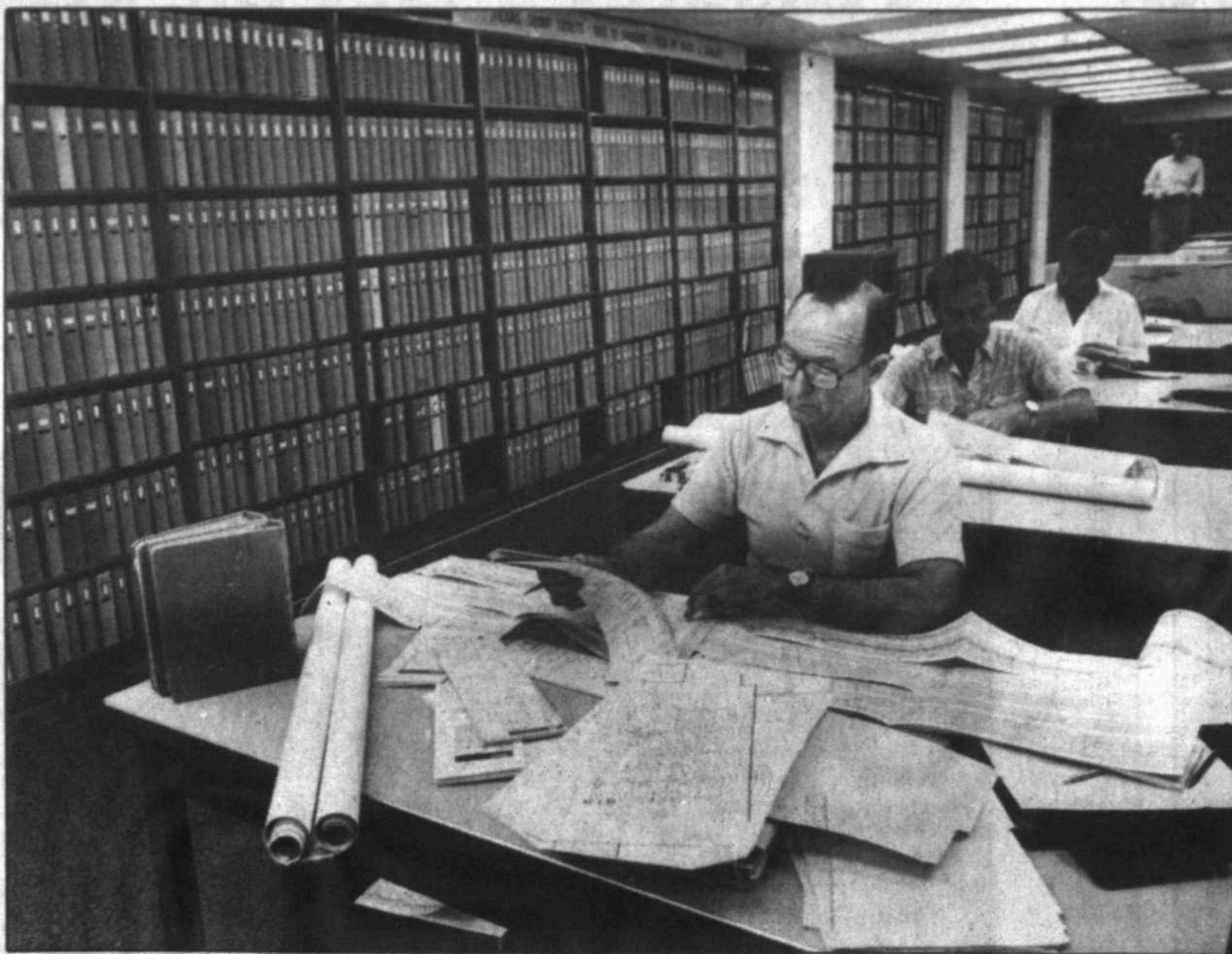
Centered in Pecos County and covering most of what is now West Texas and portions of southeast New Mexico, the Tobosa Basin existed through Mississippian time, approximately 270 million years ago. This basin, along with the adjacent shallow-water shelves, was an important depositional site for many hydrocarbon-producing rocks such as the Simpson Group, Fusselman, Silurian and Devonian formations.

WOODFORD SHALE — The next formation that was deposited is of vast importance to the economic well-being of the area. Although it produces little oil itself, the Woodford Shale, deposited during late Devonian and Early Mississippian time, is the source bed for a significant portion of the hydrocarbons produced from other formations.

As this shale was buried and exposed to the heat and pressure of the subsurface, hydrocarbons were generated that laterally migrated into other reservoirs through time. Additionally, the Woodford Shale provided an important seal for reservoirs (such as the Devonian) beneath it, in that shale is most often vertically impermeable.

PENNSYLVANIAN PERIOD — The Pennsylvanian Period (over 210 million years ago) is marked by the return of widespread seas, and again the seas deposited rocks of great economic importance. One of the Permian Basin's giant oil fields, the Kelly-Snyder reef of Scurry County, was formed during this time. Hundreds of feet of carbonate, both on shallow-water shelves and as buildups such as reefs and banks, were deposited. The Pennsylvanian Period was also a time of great structural movement in the Permian Basin.

Major structural provinces now known as the Midland Basin, Central Basin Uplift, and Delaware Basins became defined during this period. This tectonic movement also created many of the major fields of the area by deforming the rocks into closed anticlines into which oil could later migrate. Erosion during this time also cre-



Geologists use the extensive records and maps of Midland's Subsurface Library to evaluate geological prospects.

ated stratigraphic traps, most commonly truncated wedges of rock sealed by overlying strata, or clastic debris deposited in low-lying areas.

THE PERMIAN PERIOD — And finally, the Permian Period. The Permian Basin was very close to the equator at this time and the climate was warm and dry. Shallow seas covered a large portion of the region, in which vast areas of carbonate accumulated.

The Wolfcamp, Clearfork, San Andres and Grayburg carbonates were deposited, reservoirs that have produced billions of barrels of hydrocarbons. The giant billion-barrel Yates, Wasson and Slaughter-Levelland fields produce from rocks of Permian age, as well as many "lesser" fields that have only produced hundreds of millions of barrels.

Additionally, clastic rocks, namely sandstones, were deposited in the Midland and Delaware basins as the Spraberry-Dean and Brushy, Cherry and Bell Canyon

formations. These formations have also produced great quantities of oil.

Important source rocks were again deposited at this time. Outstanding exposures of some Permian rocks may be seen in the Guadalupe Mountains of West Texas and southern New Mexico.

By the end of the Permian Period, the basins had been filled with sediment, and very shallow, salty seas remained, forming thick evaporite sequences. Among these halite (salt), gypsum and other minerals lie the vast potash deposits of southeastern New Mexico.

The Paleozoic Era ends with the close of the Permian Period. Subsequent Mesozoic-Era Triassic rocks are dominated by terrestrial (land) deposition; the great marine seas so important to the area are gone, to return millions of years later in the Cretaceous Period.

One can literally walk upon these Triassic rocks: they are exposed as the redbeds of Howard, Garza, Borden and other counties.

The Permian Basin contains all of the necessary characteristics of a major hydrocarbon province. Reservoirs, rocks porous and permeable enough to contain hydrocarbons, are abundant.

Seals are present to prevent the migration of oil out of these reservoirs. Source rocks such as the Woodford Shale were deposited here, and exposed to the heat and pressure of burial long enough to generate hydrocarbons. And finally, traps (both structural and stratigraphic) exist as a result of tectonic movement, erosion and varied deposition.

Most certainly, the geologic history of the Permian Basin is much more complex than described here, and the economic importance of this geology is immense.

Consider that a giant oil field is defined as being capable of producing 100 million barrels of oil during its life: there are currently 57 giant fields in the Permian Basin, of which 47 contain their major reserves in Permian-age reser-

voirs. More than 80 percent of giant field reserves in the Permian Basin are contained in Permian formations. The first giant field discovered in the Permian Basin was the Westbrook Field, Mitchell County, first drilled in 1921.

The last currently documented giant field of the Permian Basin was discovered at the Empire Abo Field in Eddy County, New Mexico in 1957. Both of these fields produce from Permian age rocks. The significance of the word "Permian" suddenly becomes clear.

AN OIL PROVINCE — Total Permian Basin proved reserves are estimated at over 36 billion barrels, over 20 percent of the total United States reserves. If the Permian Basin were to be considered as a separate country, it would rank 10th in the world in total proved hydrocarbon reserves.

The Permian Basin, then, is not just a geologic and geographic feature, but a phrase of great economic significance and definition for this area.

Since the early 1920s, tens of thousands of people have relied on the Permian Basin petroleum industry for their livelihood. What was created hundreds of millions of years ago has sustained an area that would have otherwise relied on ranching and farming as a primary economic base.

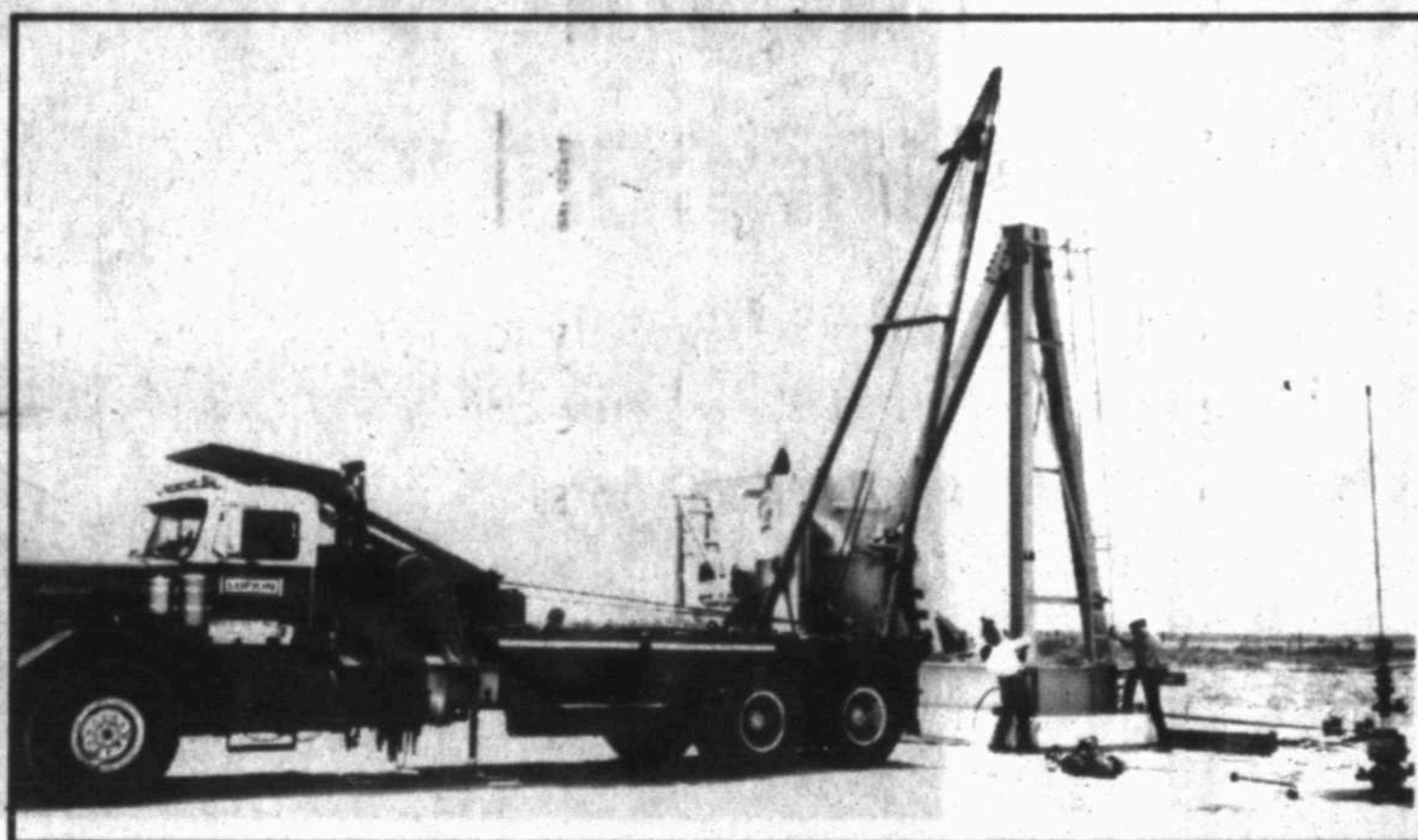
As much as these ranchers and farmers rely on the recent geologic configuration of the land and its resources, the petroleum industry of the Permian Basin thrives on unraveling geologic history created before dinosaurs walked the earth.

And Mother Nature does not give up her secrets easily — the complex history of structural movement and deposition in this great basin has created more fields left to discover. It is up to advanced technology, and most importantly, creative thinking, to find it. The Permian Basin may be a densely explored province and many oil companies may choose to abandon it, but it will serve those well, as it has in the past, who choose to remain and further explore its riches.

Brenda Cunningham is a geologist and freelance writer. The above story previously appeared in the Oil Report.

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TURN: Possibility of recovery look better for oil and gas industry

(From 1AA)

nization created by the perpetual restructuring of major and independent oil companies and the divestiture of producing properties by major oil companies. But while this may be driving inactivity, it is also creating greater potential.

Major oil companies in a divesting mode will not be looking to develop properties they may be selling, or drilling prospects in acreage that may be let go. Nor will they exploit fields that may be going on the block. This evaluation of producing properties leads to tremendous delay and inactivity, which continues through the sale process, and even after as the new owner tries to evaluate and assimilate the new property into his organization.

But once it is all sorted out — when the majors have what they want and independents what they want, the process of capitalizing upon exploration and production opportunities will begin. There will be a fresh round of development drilling, workovers and recompletions.

■ **NEW OPPORTUNITIES** — It is almost guaranteed that this fresh round of drilling will take place, because many producing packages now being sold come with lag-nappe in the form of seismic data, defined prospects with geological workups and untested acreage. One operator, describing prospects acquired from a major oil company with the purchase of producing properties exclaimed: "There's not a dog in the bunch!" Given the entrepreneurial nature of independents, they will not be content to let good prospects go undrilled.

Also enhancing the new opportunity column is the prospect of 3-D seismic which will be used increasingly to evaluate prospects, eventually every field in the Basin and much of the undeveloped acreage will be shot in 3-D, and it will reveal more good drilling prospects than we ever dreamed of. It is so refined that it can find a high on a high. Also, its ability to reduce risk on a prospect will make it easier to attract investment capital for drilling.

■ **DIFFERENT STROKES** — It is a fact that more and more properties will end up in the hands of independents, and that majors and independents do things differently.

An independent, generally, will

look at wells more closely than a major and find more things to do to produce more oil.

Independents are entrepreneurs. They measure profits and performance by how much oil they put into the tanks, whereas major oil companies are large corporations that measure performance by the price of their stock. For that reason, independents will do more and spend more to increase a well's production five barrels per day than a major, and that should increase the level of remedial activity.

At the same time, majors will be able to focus on large, capital intensive projects, that they do best. There are many enhanced oil recovery projects yet to be launched in the Permian Basin, and perhaps once rid of distractions the majors will launch more of them.

■ **BETTER PRICES** — Both majors and independents will benefit from improving and stable oil and gas prices.

Oil prices have been prowling around the \$21 mark for several months and have been stable for over two years. While oil prices may not be as high as operators would like, and EOR is probably several dollars away, they are nevertheless strong enough to support many remedial, exploitation and development projects from cash flow.

Moreover prices are likely to remain stable for years to come, for two reasons. One, the Saudis are firmly committed to oil prices in the mid to low twenties for most of this decade, and that is reason to be optimistic. And two, we have been to war in the Middle East. We have proven we can and will go to war to protect our interest there. This will help settle that region of the world for at least a time.

At the same time, natural gas prices are showing tremendous improvement. There is a building consensus that this is the year, fundamentals will go to work in the gas market and prices will improve. Natural gas prices are now at a seven year high, and there are indications that it is more than a fluke, that real fundamentals are at work.

In summation, as the 1992 Oil Show opens, the ingredients for a turnaround scenario are all in place. The reasons for things to get better far out number the reasons for things to get worse. All that is needed is a fire of some sort

to get it cooking, hopefully this will be the year.

■ **TAX RELIEF** — While Section 29 tax credits for tight sand and coal seam gas are gone, the industry did achieve tax relief from the Alternative Minimum Tax, and that is likely to have an even more positive impact upon drilling. Operators such as Parker & Parsley note that it will help there business, because the Alternative Minimum Tax had tended to penalize

those companies that drill the most. "I think we will see a new era in drilling, now that AMT is gone," said Harry Spannaus, executive vice president of the Permian Basin Petroleum Association. We could see some response by the end of the year, informs Jerry Atkinson, president JVA Operating Co.

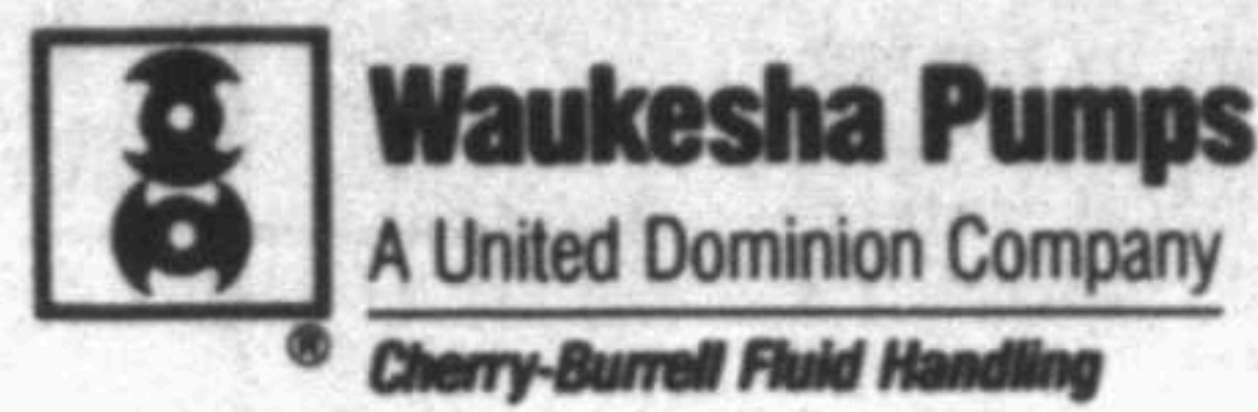
■ **ENERGY RESEARCH** — A new movement to research, develop and transfer oil industry technol-

"I think we will see a new era in drilling."

Harry Spannaus,
Executive Vice President, PBPA

ogy is now beginning. It is a movement that is likely to dominate the oil industry for decades to come, and the Permian Basin no doubt will play a strong hand in it because of the diversity of its pro-

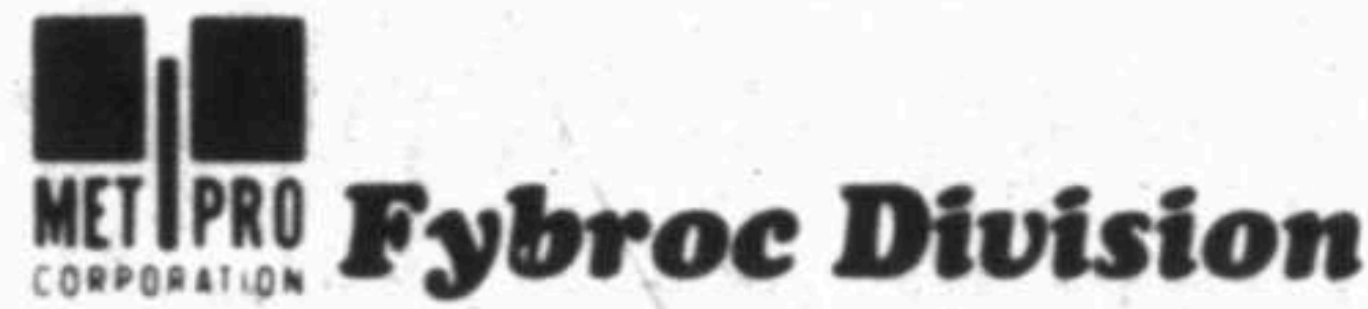
ducing reservoirs and problems associated with the various zones. The Center for Energy and Economic Diversification (CEED) has been singled out for a significant role in energy research.



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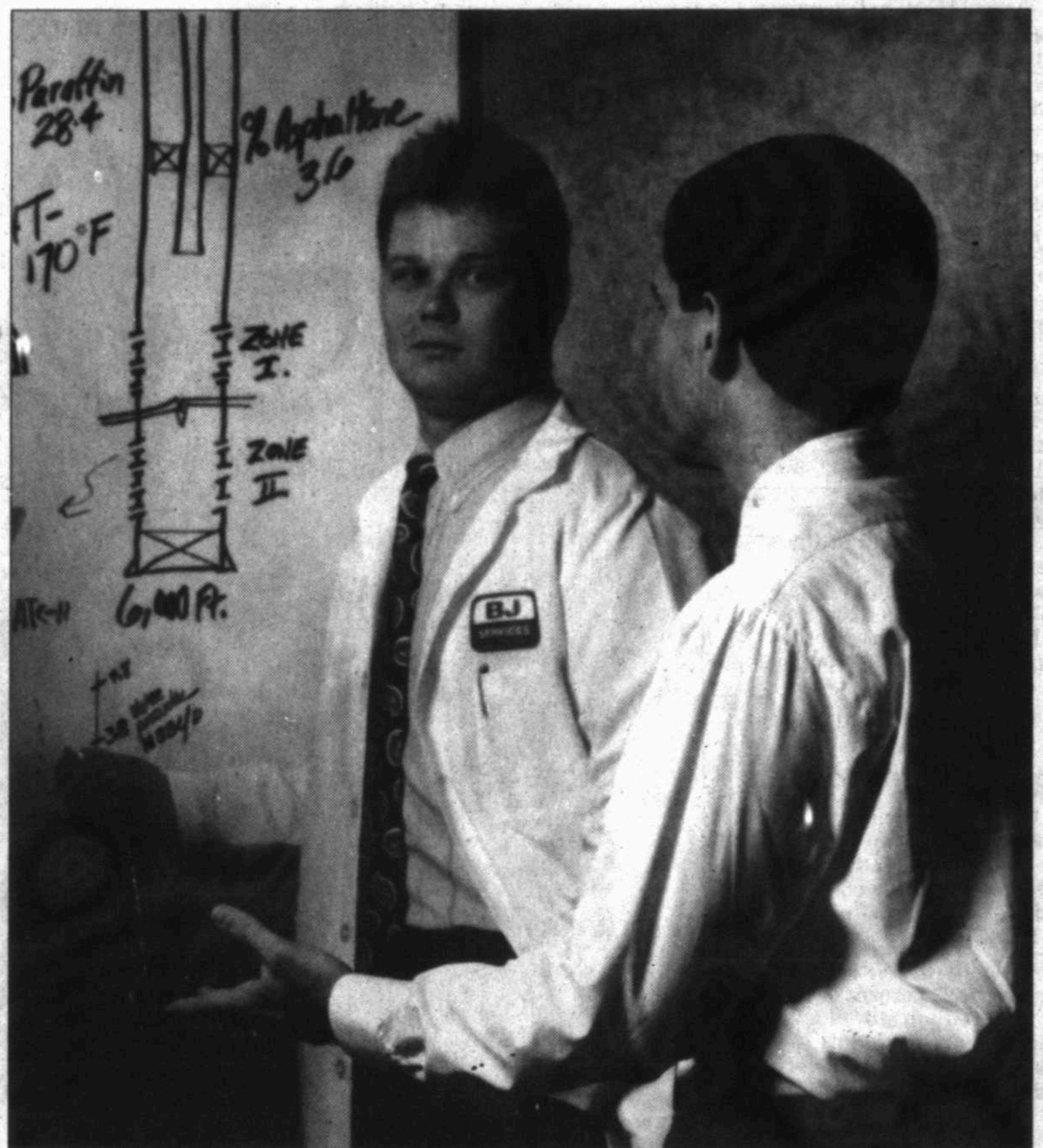
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Reserve price below \$5 for first time in 7 years

By John Paul Pitts

Business/Oil editor

The price of reserves have fallen below \$5 per barrel in 1992 for the first time in seven years, but activity has not increased substantially.

Third quarter reports are not out yet, but according to Strevig & Associates, a firm which specializes in oil and gas acquisitions, the second quarter median value for domestic reserves increased modestly to \$4.91 per barrel of oil equivalent.

This compares with the first quarter median of \$4.66 per barrel of oil equivalent. The modest rise in reserve values is partially attributed to the struggle by producers and investors to enter into the currently competitive transaction market.

Acquisitions in the first quarter were fueled by natural gas transactions as companies tried to balance their portfolio between natural gas and crude oil reserves, according to Kerry Thornhill, Strevig vice president.

But the median value for oil and gas reserves still fell 20 percent in the first quarter. According to the Strevig report, there were 55 acquisition and divestiture transactions in the first three months of the year valued at over \$360 million or \$4.66 per barrel equivalent.

For the fourth quarter of 1991, there were 61 transactions with a value of \$1.2 billion or \$5.61 per barrel.

Ms. Thornhill said that activity was especially heavy in the first quarter for those companies that

had invested heavily in natural gas and had been hurt by the low gas prices. She said those companies were paying a premium to balance their portfolio away from natural gas reserves.

She said the first quarter was the first in seven quarters where reserve values fell below \$5 per barrel equivalent and the decline in both transactions and value indicated domestic operators and investors weren't willing to spend significant sums of money.

In the second quarter, divestiture announcements by domestic producers provided an invitation to various institutional, international, industry and contrarian investors, but there were still declines.

The volume of activity continued to decline, with second quarter activity totaling 49 transactions compared with the first quarter volume of 55 transactions. The decline appears to stem from significant increases in production prices stimulating domestic operators to hold their reserves and continue to produce to service debt and operations.

The rise in domestic reserve values also signals the return to a floor on domestic reserve values. The energy industry and investment community have realized the supply and demand fundamentals reaching the United States are approaching capacity.

The activity level may have deteriorated momentarily in the second quarter as investors with conservative pricing and acquisition criteria clash with rising prices and tightened supply. The second

Exhibit 1

	Number of Transactions		\$ / Barrel of Oil Equivalent	(6-7)	(8-11)	(10-1)
1 Qtr	35		5.24	5.69	6.00	
2 Qtr	58		5.09	6.50	6.98	
3 Qtr	83		4.83	5.50	5.91	
4 Qtr	81		4.43	5.05	6.00	
1 Qtr	53		5.16	6.48	7.37	
2 Qtr	78		5.45	6.19	6.80	
3 Qtr	73		4.84	5.75	6.27	
4 Qtr	101		4.82	5.58	5.98	
1 Qtr	68		4.08	4.86	5.59	
2 Qtr	58		4.00	4.54	5.25	
3 Qtr	90		4.12	4.93	5.27	
4 Qtr	73		4.53	4.99	5.06	
1 Qtr	55		3.83	4.65	5.08	
2 Qtr	95		4.35	5.22	6.30	
3 Qtr	77		5.17	5.43	5.60	
4 Qtr	107		5.32	5.96	6.62	
1 Qtr	64		5.33	7.00	8.70	
2 Qtr	71		5.05	5.99	6.81	
3 Qtr	72		5.26	6.07	6.70	
4 Qtr	61		5.61	7.12	7.75	
1 Qtr	55c		4.86	5.71	6.60	
2 Qtr	49		4.91	5.82	6.77	

20 30 40 50 60 70 80 90 100 110 120 S3 S4 S5 S6 S7 S8 c=connection

quarter transaction value exceeded \$950 million compared to the first quarter total of \$360 million.

Natural gas continues to outpace oil reserve acquisitions in the second quarter, accounting for 60 percent of the activity. The median for gas domination transactions dropped to \$0.72 per mcf, compared to the first quarter \$0.74 per mcf in the first quarter.

Strevig officials said there is still an abundance of properties on the market with fierce competition for quality properties.

Ms. Thornhill said she was surprised by the low dollar value of the transactions, which she attrib-

uted to trading in marginal properties.

"In the first quarter, people were selling \$2 and \$3 million properties," she said, adding that most companies who operate on a calendar year wanted to complete transactions before the end of the year. "They wanted to clean up their asset base, get some cash flow and get rid of costs and overhead associated with these properties."

According to Ms. Thornhill, money for acquisitions may be tight but banks are being aggressive in lending money.

"But it has to be a clean proper-

ty free of debt and it has to be priced right in terms of the expected return," she cautioned.

She said that in terms of financing, the key word is conservative. Banks, she noted, are lending for oil and gas properties based on conservative prices.

"It's safer to run things on a conservative basis. Then, if prices do jump up ... it's an added bonus and increased cash flow to the company or to service the debt. But it shouldn't be forecast or counted on."

And banks won't lend on properties with a lot of debt attached to them, she said.

This graph shows the median prices paid historically for domestic oil and gas reserves and the correlating number of transactions. Second quarter values were modestly higher, attributed partially to attempts by producers and investors to participate in the transaction market. A decline in transactions indicates higher energy prices have prompted some operators to keep their reserves.

Andrews' production ranks third

By Mella McEwen

Staff writer

In June, when the latest figures were available from the Texas Railroad Commission, Andrews County produced 2,737,412 barrels of oil, the third highest in the state.

Since the first commercial production began in the county in 1929, this designated center of the Permian Basin has been a leading oil and gas producer.

And while the county has affected by the nationwide decline in drilling, Andrews County has ranked among the most active counties in the Permian Basin.

The first commercial discovery in the county was made by Deep-Rock Oil Co. on Dec. 18, 1929, in Section 6, Block A-46, Public Schools Land on the Central Basin Platform, the No. 1 C.E. Ogden.

The second producing area to be opened was the Fuhrman Field, which was opened on Nov. 21, 1930, in Section 16, Block A-43, PSL survey, on land owned by W.T. Ford. Drilled by Fred H. Fuhrman, the well was drilled to 4,700 feet in the San Andres formation. Initial production was between 200 and 300 barrels daily.

One of the most productive fields in the county is the Fullerton Field, which was opened in 1941. It produces oil from 10 zones and two are strong in natural gas production. The discovery well was the No. 1 H.M. Wilson, drilled to 7,300 feet by Fullerton Oil Co.

With a number of the county's oil fields over 60 years old, a number of majors have begun and expanded enhanced recovery projects.

Union Oil Co. of California, for example, has EOR projects in three fields, according to Jimmie Hughes, drilling manager in Unocal's Midland office.

Unocal is planning infill drilling in the Clearfork zone of the Dollarhide Field and enhanced recovery using CO₂ in the Devonian zone.

The Dollarhide Field was opened in August 1945 in joint drilling by the Magnolia and Humble companies on land owned by E.P. Cowden.

Unocal is planning to put the North Cowden Field on water-flood recovery. And the company's third area of focus is the University Block fields.

The University of Texas owns 293,000 acres, or 29 percent of the county, located on 14 blocks throughout Andrews County.

The first production on University land in the county occurred on Dec. 8, 1938, when The Texas Co. completed the No. 1-H University in what became the Shafter Lake Gas Field.

Among the most productive fields in Andrews County and the Permian Basin, is the Andrews Field, which was discovered by Humble Oil in 1953 with the No. 2 State University "O" as a Devonian producer. Wolfcamp production was opened in July 1953, Pennsylvanian in July 1954 and Strawn in 1959.

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Bush

By John Paul Pitts

Business/Oil editor

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John Paul Pitts

DOE ey

By John Paul Pitts

Business/Oil editor

The boom in re nology transfer in could put a new ter for Energy Diversification.

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ANALYSIS

Bush gets high marks

By John Paul Pitts
Business/Oil editor

"The oilpatch is mad as us. They don't think we have moved fast enough or been aggressive enough on some issues," said Energy Secretary Watkins as he flew through the Permian Basin on a fence-mending tour.

How does the administration rank on their platform and performance. To no one's surprise they earn good marks on some issues and low marks on others, and overall stand about average.

In a previous column this is how we graded the Republicans on energy.

House cleaning — The highest marks come for reform. Republicans have repealed the Windfall Profits Tax, deregulated natural gas at the wellhead, created a competitive market with open access to pipelines while creating greater access to natural gas markets for producers. Also repealed is the transfer rule. Expected to come is removal of the alternative minimum tax, a republican mistake.

In short, Republicans have thrown out a lot of democratic garbage, including Jimmy Carter's assumption that America could no longer supply any of its energy needs.

For 12 years of throwing out democratic garbage and a commitment to continue same, the administration deserves a well-earned "A."

Natural gas — In a summation of the National Energy Strategy there is a strong play for natural gas.

"...a comprehensive and balanced strategy for America's energy future...specifically adequate energy supplies and reduced consumer costs through market forces, diversified domestic energy sources, more efficient energy consumption through flexibility and greater competition and output for the interest of consumer and producer alike."

This is a critical point, even if we have to read between the lines to get it. One reads into this statement an underlying message of desire for a flexible fuel system for America and fuel on fuel competition that will help the nation back out for foreign crude oil and take advantage of our own abundant natural resources. It is a desire that is likely to control energy development in this nation for the next decade. While there is little reference to natural gas, no one has to guess what the flexible fuel future involves.

But if there is any doubt, a clear pitch is made for increased use of natural gas not only in electrical generation, but for use in natural gas vehicles. Gasoline and diesel will be in for competition, as we move toward becoming a multi-fuel nation, and most of the competition will come from natural gas.

"The administration will foster more public-private partnerships to advance the use of natural gas, and encourages the expansion research, development, and demonstration for end-use natural gas technologies," reads the language of the plank.

I am inclined to give the administration an "A" for its vision and concrete plans to move the domestic oil industry, the economy and the nation forward with natural gas.

But because, increased natural gas use is such an obvious, win-win situation that it requires little genius to recognize, we must subtract some points. Final Grade "B+"

Incentives — Relief from the Alternative Minimum Tax is probably on the way. Other Bush incentive designed to save a failing industry and jobs include: tax credits for enhanced oil recovery, tax credits for exploration under existing producing structures and modified depletion rates for stripper production.

This is the number one contention with independents. It's not nearly enough. More tax credits and incentives are needed to "jump start" the domestic industry.

Why not tax credits for high-priced exploration technology such as 3-D seismic? A tax credit for 3-D could go a long way toward reviving the Permian Basin. Why not dry hole credits against future production such as Bob Krueger has proposed?

One could dream up a long list of fair and effective tax incentives for revitalizing the domestic industry, putting people back to work, and reducing foreign imports — if indeed that were the objective. The lack of such incentives has given many cause to suspect, secret agendas. The tired explanation that incentives for the oil industry is "politically impossible" is wearing thin.

The administration deserves a dab of credit for it: the incentives it has supported, but heaps of shame for its uncreative and unenergetic support of truly meaningful incentives. Everyone, even the democrats, knows the democratic congress is dead set against the oil industry. But that only means republicans must play harder and smarter. They didn't play hard enough. I give a "D" for effort — but only out of kindness.

ANWR — The energy plank expresses concern for the domestic industries loss of 300,000 jobs and supports drilling access to the Arctic National Wildlife Refuge and Outer Continental Shelf as a means of creating jobs.

So why are we voting for a National Energy Strategy that prohibits drilling in ANWR or offshore?

Opening these areas to exploration could have reduced foreign imports, saved hundreds of thousands of jobs and given the industry a much-needed morale boost, without damage to the environment. These facts are so self-evident that Bush should have drawn a hard line on ANWR. It should have been a veto matter.

No energy policy at all would have been better, than to sign one that forbids looking for oil in the United States, when 60 percent of our oil is imported and 300,000 oil and gas workers are jobless. It is a mockery of reason — an affront to common sense — a tribute to politics as usual.

The administration deserves a big fat "F" for helping put the lock on ANWR and OCS.

When we assign number values to these grades we come up with 73.5 or a "C" average. In my book that's mediocre — barely passing.

John Paul Pitts is business/oil editor of the Reporter-Telegram.



Bush

Giant oil fields open Permian Basin

By John Paul Pitts
Business/Oil editor

The discovery of a giant oil field led to the opening of the Permian Basin and the continued discovery of giant fields led to the basin's development.

The discovery of those fields, in excess of 100 million barrels, have served as a "follow-the-dot picture" of exploration. As wildcaters played trendology and drilled in between the giant fields, a producing empire — the Permian Basin — was born.

The giant fields also served as the catalyst for the infrastructure of the basin's oil industry. Towns like Wink, McCombs, Big Lake and Odessa grew up next to the giant fields. Roads were built from town to town and oil businesses and workers supported commerce.

In short, a study of the giant fields is a study of Permian Basin history, and that is basically how Samuel Myers, historian and author of the two-volume history of the Permian Basin, defined history.

In the Permian Basin, there are 30 such fields, in 11 counties, spread across the basin from top to bottom. It was from these prolific fields that the search for oil and gas spread out in all directions, resulting in hundreds of smaller fields.

A survey of production records for the three Texas Railroad Districts of the Permian Basin (records were not available for New Mexico) reveals some interesting facts.

World class fields — those producing in excess of a billion barrels — are not easy to come by, but the Permian Basin has four of them: Yates Field in Pecos County, Kelly-Snyder Field in Scurry County, Slaughter Field in Cochran County and Wasson Field in Gaines County. All of these fields are now undergoing tertiary recovery projects.

Of the four, the Wasson with 1.6 billion barrels is the largest, followed by the Kelly-Snyder, 1.21 billion; Yates, 1.20 billion; and the Slaughter, 1.05 billion, according to the Texas Railroad Commission Annual Report.

The Kelly-Snyder was the first

giant field in the basin to undergo tertiary recovery. The Yates, in which flu gas is used to maintain reservoir pressure, is now beginning horizontal drilling projects.

The Yates Field was discovered in an area that was considered the

"grave yard of wildcaters." "There is no oil west of the Pecos River," according to geologists of that day.

According to the TRC report, the area with the most giant fields is TRC District 8, which has 18

fields producing in excess of 100 million barrels. District 8a is second with nine giant fields and District 7c — the area in which the basin got its start with the 1923 Santa Rita strike and discovery of the Big Lake Field — has three fields.

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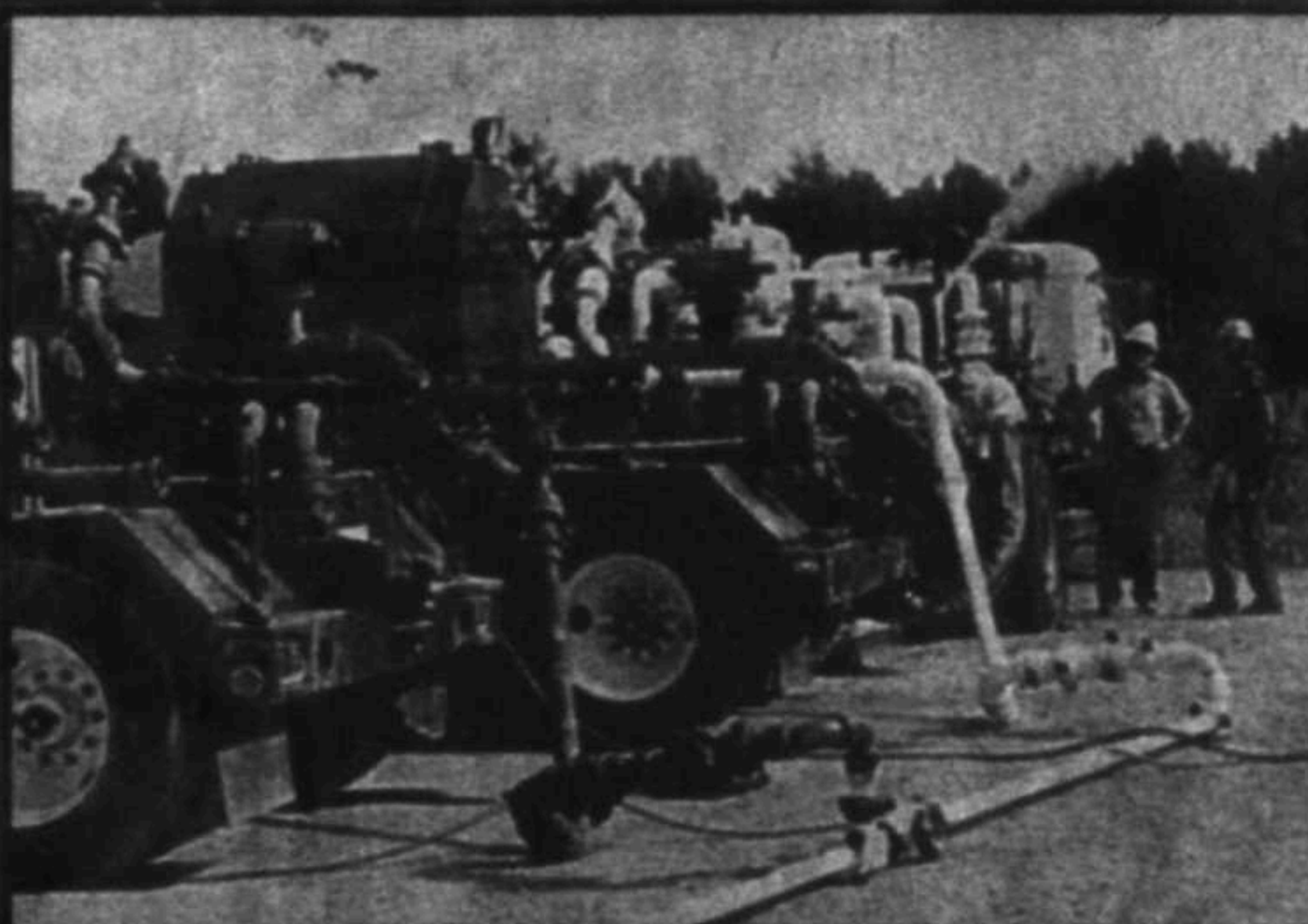
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DOE eyes new role for CEED

By John Paul Pitts
Business/Oil editor

The boom in research and technology transfer in the oil industry could put a new face on the Center for Energy and Economic Diversification.

The Department of Energy (DOE) has increased its commitment to energy research and has expressed an interest in using CEED as a permanent facility.

During a visit to Midland last month, Secretary of Energy James Watkins said it was possible the department may use the facility to help prepare proposals for shallow carbonates reservoir studies and then on an on-going basis.

Watkins said if and when the National Energy Strategy is passed, DOE will consider the possibility of continuing its research and conducting knowledge-transfer seminars at CEED on a permanent basis.

nent basis.

Randy Parker, principal deputy assistant secretary for fossil energy at DOE, said the department intended to be more active in the field.

"We think getting to the field and getting our feet on the ground is essential." He said DOE's present push for energy research and technology transfer was not just an election year "perk," but would be an on-going effort.

In an interview following Watkins' visit, Ed Sharpe, interim president of the University of Texas at Permian Basin — which has responsibility for CEED — said a committee of industry and community leaders has been working on a role for the institution, and the outlook for CEED as a research or technology transfer facility was very favorable.

Please see CEED/9AA

OCT 18 1992

API blames government for loss of oil field jobs

■ 450,000 workers have lost their jobs over the past decade, report says.

Staff report

The petroleum industry in America has suffered unprecedented job losses amounting to 450,000 in the past decade and 63,000 in the past year, according to an American Petroleum Institute report.

The API concludes that a significant reason for these massive job losses is that the federal government has not permitted oil companies to develop U.S. onshore and offshore oil and natural gas resources.

The coastal plain of the Arctic National Wildlife Refuge (ANWR) is closed to drilling. The entire East and West coasts are off limits to new offshore development. And state and local governments have joined in blocking or delaying exploration and production, says API.

"When oil companies are unreasonably denied access to explore and develop U.S. lands potentially containing billions of barrels of oil and trillions of cubic feet of gas, they have no choice but to seek opportunities overseas," according to the API report. "And outside

the U.S. they find the welcome mat awaiting them," said the report, which lists events of the last decade that demonstrate the demise of the U.S. petroleum industry.

At the end of 1981, after the decontrol of oil prices, the United States reached an all-time high of 4,530 active rotary drilling rigs running. The record low of 596 was reached in June this year. American oil production peaked at 9 million barrels a day in 1985, but has gone down since then to the current 7 million barrels a day.

These declines are a result, in part, of lower oil prices and the current sluggish economy, but API believes a major cause is the adverse political climate for domestic exploration and production.

In the past decade the petroleum industry has suffered almost 450,000 job losses — from 920,300 employed at the peak in February 1982 to 471,000 employed last month. The losses are mainly in the exploration and production segments of the industry.

During this period, Congress started imposing moratoria on offshore leasing on an annual basis, closed millions of acres for wilderness lands, and fenced off millions of federal acres for study.

This year Congress voted to deny drilling rights to companies holding valid leases offshore Flori-

da, closed the Atlantic and Pacific coasts to new oil and gas leasing and refused to debate opening the coastal plain of Alaska's ANWR to oil development.

API argued strongly for ANWR exploration and development, and a study by the WEFA Group, an econometrics firm, estimated the project would generate 735,000 new jobs throughout the country.

The national energy strategy bills passed by the Senate and the House and now in conference virtually ignore the vital need for increased domestic production of oil and gas, API claims. At the same time says API, environmental regulations have been imposed by the government with multi-billion dollar impacts on the exploration, production, refining and marketing sectors of the industry.

All of these actions have been taken in the name of environmental protection. But the API report concludes that a review of the past 20 years shows that exploration and production activities can be carried out while meeting tough environmental standards.

The API says these restrictive government actions keep the federal and state governments from receiving billions of dollars in revenues and have ensured an increase in oil imports with an outflow of American dollars — more than \$50 billion a year — to foreign suppliers.



In the last decade 450,000 oil-field workers have lost their jobs, according to the American Petroleum Institute.

Oil towns are hurting, API shows

Staff report

The domestic petroleum industry lost more than 60,000 jobs in the past year, and 450,000 over last decade. Here are a few examples of how the industry was hit, according to the American Petroleum Institute.

■ Bakersfield, Calif. — This oilpatch town had the highest unemployment rate in the state, hit by cutbacks from all major employers.

Bakersfield was joined by other oilfield centers such as Santa Barbara and Ventura, when Chevron U.S.A. was forced to pare its work forces.

■ Vicksburg, Miss. — Marathon-LeTourneau Co.'s Vicksburg plant and shipyard ceased operations in late June, when 140 employees lost their jobs.

■ Houston — Oil rig equipment from out-of-business Teledyne Movable Offshore Co. was sold this year at 20 to 30 cents on the dollar.

■ Lafayette, La. — Ripple effect of oil industry layoffs in the shut-down of Teledyne Movable Offshore Co. headquarters causing severe economic downturn, according to the Greater Lafayette Chamber of Commerce.

■ Conroe, Texas — The value of used oil rigs was down 82.5 percent in the past decade, and only international sales are preventing used rigs from being sold as scrap, according to HADCO International Inc., an appraisal and consulting firm.

■ Bartlesville, Okla. — This oilpatch town was hit hard this year. With a population of 35,000, and Phillips Petroleum Co. as the major employer, the town lost 1,400 employees to retirements and layoffs this year, according to the Bartlesville Chamber of Commerce.

Amoco chair: Regulators pushing majors out of U.S.

Staff report

WASHINGTON — The harsh regulations imposed on domestic oil and gas exploration and production may help expedite globalization of the nation's petroleum industry, the chairman of Amoco Corp. said.

"The current regulatory climate in our country is hostile to domestic exploration and production and plays no small part in the all-out drive toward globalization," H. Laurence Fuller told a meeting of the Society of Petroleum Engineers.

"But the other side of the coin is that while this process of globalization may be expedited by adverse domestic external considerations, it is also being encouraged by unprecedented opportunities throughout the emerging new world," Fuller said.

He cited opportunities in Russia and its former satellite nations "undreamed of three years ago," also in Asia, China, the Pacific Rim countries, parts of Africa, Mexico, Venezuela and much of Latin America.

In Latin America, Fuller said,

"the possibilities are unlimited, with the promise of exciting new possibilities in this hemisphere that have never been fully explored. Our industry will play a major role in developing these possibilities."

Fuller said the first step in the process has been completed with the signing of the North American Free Trade Agreement, NAFTA, which will establish a free trade zone among the United States, Canada and Mexico.

"When completed, this free trade area will bind more than 350 million people together into a \$6 trillion economy, more than 25 percent larger than the European Community," Fuller said.

"The ultimate goal beyond the NAFTA agreement is a concept of a hemispheric free tradezone stretching, as President Bush has put it, 'From Alaska to Yucatan.'"

Fuller noted that as enterprises of all sorts rush to establish positions in the emerging post-Cold War world, the search for capital has never been more intense — or more competitive.

He said this is particularly true for the petroleum industry, which

faces sluggish product demand, low oil and gas prices and fierce and unprecedented worldwide competition.

Further, he said, the industry — because it is still profitable — has been targeted for punitive tax rules, severe restrictions on domestic exploration and drilling, and misleading regulations that are based on bad science, ignore costs and

rely on a rigid bureaucratic command-and-control system for implementation.

He cited as an example the impact of current regulations on Amoco's Yorktown Refinery, the site of the recently completed two-year pollution prevention study that involved more than 200 people and 35 organizations, including the federal Environmental Protec-

tion Agency.

"Amoco will spend about \$54 million over the next four years to reduce hydrocarbon emissions from the refinery as required by existing regulations," Fuller said.

"But the study found that Amoco could reduce emissions by the same amount for only \$10 million if it was allowed to implement scientifically sound alternatives."

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Majors sell opportunities to independent producers

■ The exodus of the big oil companies overseas continues to create bargains for the smaller firms.

N.Y. Times News Service

As major oil companies move out, the fortunes of independent oil companies in the Permian Basin are improving significantly.

The opportunity is being created as U.S. oil companies such as Exxon, Mobil and Chevron sell their U.S. properties to independent operators to fuel their growing international drilling budgets. While majors have announced that they are not going to "fire sale" properties, the bargains in producing properties are there nonetheless.

Estimates of the value of properties for sale range from \$10 billion to \$20 billion worth of properties, according to Strevig & Associates, a specialist in oil property acquisitions.

Ron Wise, president of PLS Inc., a Midland firm that lists and brokers oil properties, calls it a matter of perception. "A property that a major company considers marginal may be a Cadillac to a smaller independent oil company," he said.

Analysts say acquisitions can prove particularly lucrative for companies that realize economies of scale by buying properties in areas where they already have substantial operations.

In such cases, a company may enjoy a sizable jump in its production revenues as a result of the newly acquired oil and gas wells. But the company's overhead costs may increase only minimally because it already has a workforce and infrastructure in place.

The company may also experience bigger success in drilling new wells on the acquired properties because it already is familiar with the area geology.

With many big oil companies putting assets up for sale, a company like Arch Petroleum of Fort Worth has a crack at buying properties it "would never have gotten a look at" in earlier years, said

An Analysis

Arch Vice President Randy Scroggins.

"Properties that are higher quality are now finding their way on to the market," he said. "In general, I don't recall there ever being near as many properties on the market as there are now."

Arch is indicative of how an independent oil company can take a ho-hum property from a major oil company and turn it into a Cadillac. Arch announced in September that it would institute a major project in its recently purchased Keystone field in Winkler County that would allow it to increase additional recovery in the field by almost 42 million barrels and 480,000 mcf of gas.

The Permian Basin is considered the hottest spot in the nation for acquisition, and for two years, Fort Worth's Texland Petroleum had sought to acquire three oil properties in far West Texas along the New Mexico border from a much-larger Texas independent that is expanding its foreign operations.

Finally, this summer the big independent agreed to sell the Yoakum County properties, which include 20 producing wells, for a price that Texland President R.J. "Bob" Schumacher says was in the range of \$3 million to \$5 million.

Texland, a 75-employee company that operates nearly 700 wells in West Texas, can operate the newly acquired Yoakum County wells on a "very profitable" basis without adding any new employees, Schumacher said.

Snyder Oil of Fort Worth likewise has experienced significant economies of scale with its purchase of Wattenberg Field properties in Colorado from oil giant Amoco Corp., Snyder President Tom Edelman said.

Snyder paid Amoco \$14.4 million for Wattenberg properties in 1990 and reached an agreement in April that gives it the right to drill extensively on additional Amoco acreage in the field.

Snyder already had 500 producing wells in the Wattenberg before the deals with Amoco. With a large infrastructure already in place, the company estimates that

it can drill for new reserves at a cost of only \$3 per barrel.

Snyder, which reported revenues of \$92.5 million last year, cites its 15-month-old Wattenberg drilling program as the prime reason for a 27 percent increase in its oil production and 44 percent rise in its natural gas output.

Wall Street analysts have lauded Parker & Parsley Petroleum for its \$123 million purchase from Mobil of oil properties concentrated in the Spraberry Field.

Parker & Parsley, with 1991 revenues of \$147 million, was already the biggest operator in the Spraberry Field before the December acquisition, said Herbert Williamson, the company's vice chairman.

Because Parker & Parsley drills more wells than anyone else in the Spraberry, it can operate cheaper by securing cut-rate prices for high-volume purchases of supplies such as drill pipe, Williamson said.

Parker & Parsley can drill a typical Spraberry well for \$300,000, he said. But the cost for a major oil company "would be closer to \$400,000 to \$450,000," he said.

The company's intimate knowledge of the Spraberry's geology can mean "the difference between a 50,000-barrel well and a 120,000-barrel well," Williamson said.

For Mobil, a company with annual revenues exceeding \$60 billion, the sale to Parker & Parsley represented only a minor dent in its huge base of energy assets. But the acquisition doubled Parker & Parsley's petroleum reserves and provided it with 600 new drilling locations, Williamson said.

Sizable independents such as Parker & Parsley and Snyder, while buying properties from the majors, in turn sell their more-marginal properties to smaller independents who hope to wring a profit from them.

This trickle-down cycle of selling properties is part of a huge oil industry "feeding chain" that ranges "from Exxon to a guy who operates a couple of wells with a pickup truck," Edelman said.

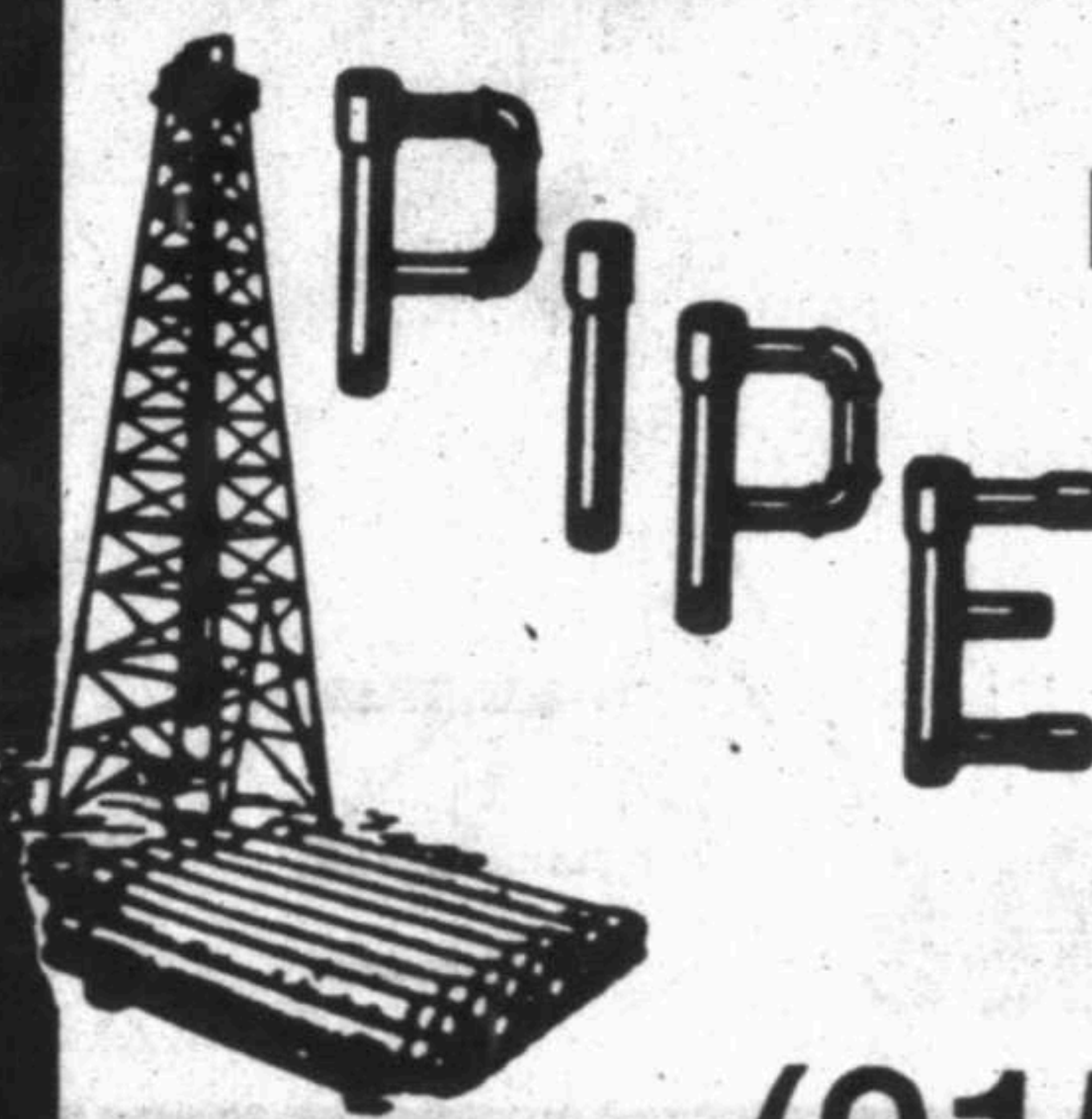
Larger companies tend to have higher overhead and more management layers. They usually cannot manage modest-size properties as cheaply as smaller companies, Edelman said.



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properties, more and more Permian Basin workovers will fall to independents.

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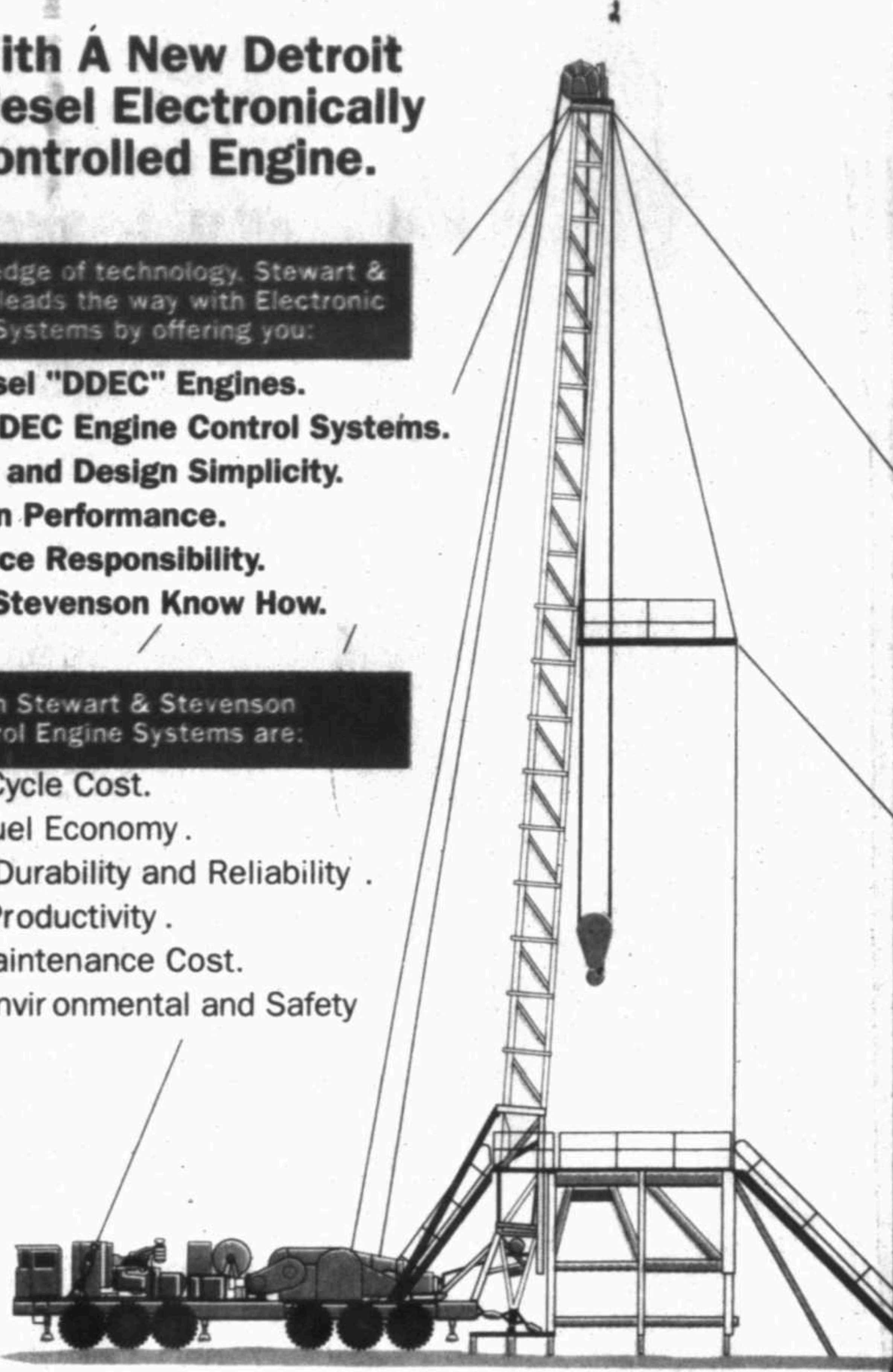
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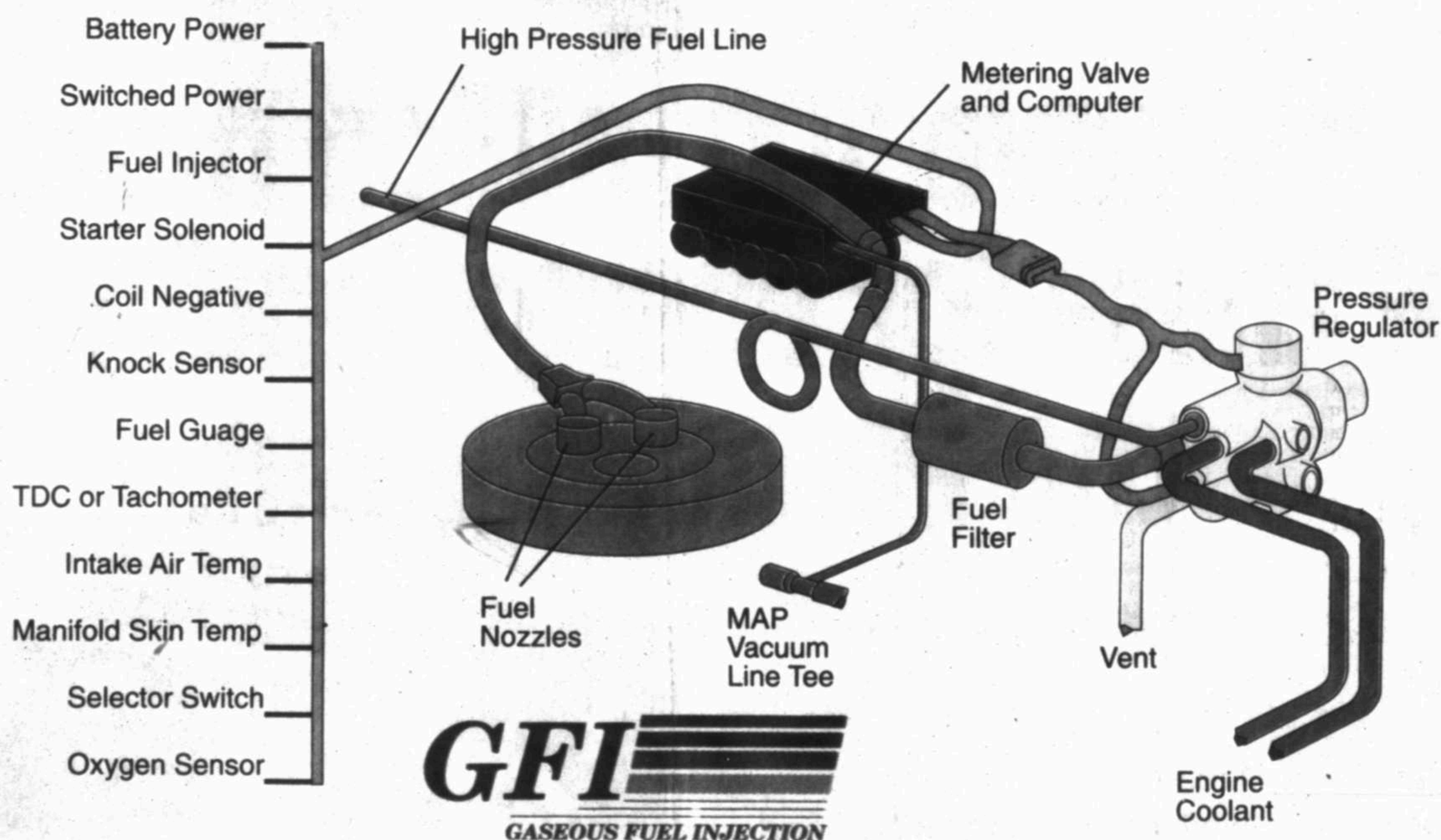
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Ana futu

By Mella McEv
Staff writer

Like other sectors, the oilfield has suffered from a downturn in the industry's outlook.

James K. Wicklund, in a based analysis, says that the oilfield has begun a cycle of recovery, but it will take several years to return to its former glory.

Domestically, the oilfield's production capacity and natural gas would meet the demand for activity in two years.

HE PREDICTS that the oilfield will see a boost in activity in the next few years.

"About 75 percent of the domestic oilfield's production is independent of the cash flow for drilling," he said.

"This causes the oil and gas industry to be dependent on the production capacity and weather conditions," he said.

Those factors are volatile pricing, a few years, Wicklund says, will be a moderate gas trends to grow to 12 to 24 months.

He predicts that gas will exceed the demand for gas by 1994, as opposed to about 1991.

"With six years of drilling over 5.5 percent, the use of industrial capacity is responsible for over demand, along with the recession, clear power generation and exports to Mexico that the natural gas market during 1993 overview.

ALSO HELPING the surplus will be the 450 to 500 wells in the Gulf of Mexico, placing 15 to 20 percent capacity.

Wicklund said that reserves show a main index life that about 1,200 two years would reverse the aggregate curve in the Gulf.

He cautioned that there will be an increase in natural gas until natural gas prices are reduced and remain for a period of time.

Still, he said, the swing in natural gas prices will be a problem for the oilfield, but it will be a total of 10 years in these categories.

Wicklund is confident of the tight sands and gas credits count. He estimates that the total of 10 years in these categories will be a total of 10 years, which is an indicator of actual strength. He said that the oilfield count to fall despite seasonal oil and gas prices.

In another sector, that workover activity is increasing in the independents' purchases from majors and to increase production before drilling.

IN ADDITION, the properties that are not being made of staff cutbacks, which create workover work.

Drilling rig operations should continue, he said.

Wicklund estimates that the oilfield's utilization of natural gas at 70 percent, and cast for an upswing.

CEED: (From 5AA)

Sharpe said that the oilfield will definitely play a local operators' role for reservoirs at the junction with DOE's continuing act. Sharpe said if it comes a technology.

Analyst optimistic about future of service firms

By Mella McEwen
Staff writer

Like other sectors of the oil industry, oilfield service companies have suffered from the prolonged downturn in the oil patch.

But a financial analyst sees hope ahead.

James K. Wicklund, a Dallas-based analyst with Rauscher Pierce Refsnes Inc., says current statistics for both domestic and international oil and gas activity paint a deceptive picture of the industry's outlook.

Wicklund, in an overview written for the company's clients, said "international activity has already begun a cycle of activity that will provide a longer and larger secular upturn than has been seen in several years."

"Domestically, the disparity between current/short-term production capacity and demand for natural gas would mandate increased levels of activity within the next two years."

HE PREDICTS that growing emphasis on natural gas will provide a boost in domestic activity.

"About 75 percent of all wells drilled domestically are drilled by independents who rely on excess cash flow for drilling budgets," he said in the overview.

"This causes the domestic level of oil and gas activity to be very dependent on natural gas pricing, production capacity, reserve supply and weather."

Those factors have fueled volatile pricing levels in the past few years, Wicklund expects volatility to be moderate and natural gas trends to grow over the next 12 to 24 months.

He predicts demand for natural gas will exceed 21 trillion cubic feet by 1994 regardless of weather, as opposed to about 19.3 TCF in 1991.

"With six-year growth averaging over 5.5 percent in the highest-use industrial category and responsible for over 37 percent of demand, along with recovery from the recession, closure of nuclear power generation facilities and exports to Mexico, we believe that the natural gas surplus will be gone during 1993," he said in the overview.

ALSO HELPING dry up the surplus will be the fact that only 450 to 500 wells will be drilled in the Gulf of Mexico this year, replacing 15 to 20 percent of production capacity.

Wicklund said federal offshore reserves show only a six-year remaining index life. He calculated that about 1,200 wells a year for two years would be required to reverse the aggregate decline curve in the Gulf of Mexico alone.

He cautioned that there won't be an increase in drilling activity until natural gas prices have increased and remained higher for a period of time.

Still, he said the current upswing in natural gas prices, coupled with the independents working to reduce debts and purchase properties from the majors will indicate higher natural gas prices over a longer period of time and a slower but prolonged improvement in domestic exploration.

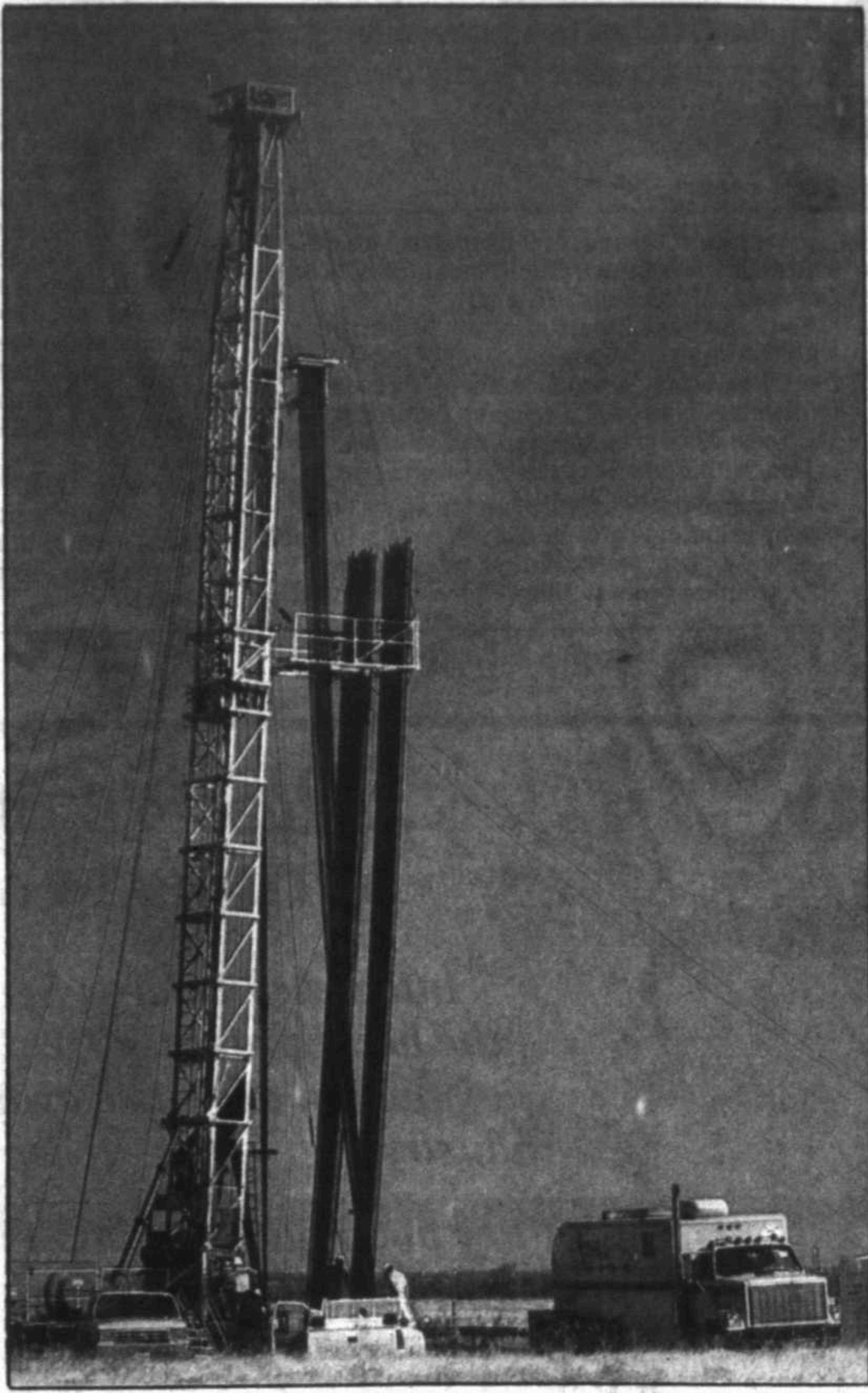
Wicklund is concerned with the influence of the expiration of tight sands and coal seam methane gas credits on the 1992 rig count. He estimated that there will be a total of 150 rigs working in these categories by the end of the year, which could give a false indicator of actual drilling activity strength. He said he expects the rig count to fall in January 1993 despite seasonal increases in natural gas prices.

In another sector, he predicted that workover activity should increase in the near-term as independents purchase properties from majors and rework the wells to increase production and cash flow before drilling new wells.

IN ADDITION, he noted that properties the majors are selling are not being maintained because of staff cutbacks and expense limits, which creates a backlog of workover work.

Drilling rig operators, however, should continue to suffer weakness, he said.

Wicklund estimated that worldwide utilization of offshore rigs is at 70 percent, and while the forecast for an upswing will help, it



Curt Wilcott/Reporter-Telegram

Better days may be ahead for oil-field service firms, particularly on the international front.

'Domestically, the disparity between current/short-term production capacity and demand for natural gas would mandate increased levels of activity within the next two years.'

— James K. Wicklund,
a analyst with Rauscher Pierce Refsnes Inc.

won't eliminate the excess of rigs on the market.

Onshore rig utilization is estimated at 60 percent, with U.S. utilization at 32 percent. He said that in 1990, the average rig count was up 24 percent from 1989 levels, but drilling contractors saw a 10 percent drop in revenue for equipment from year-earlier levels.

"We do not see any factors that cause a significant benefit to this segment of the industry," he said.

The hot spot will continue to be the international market. Wicklund said that over the past two years virtually every oil and gas company that could afford it has reduced capital spending in the United States, instead shifting those dollars into the international market.

HE CITES a recent Arthur Anderson survey showing 60 percent of exploration and development spending by the 30 largest companies was outside the United States and growing 20 percent annually.

A survey by Scottish Enterprises, a United Kingdom-based consulting firm, estimates up to 80 percent of E&D spending through 1995 will be outside the country. The Solomon Brothers, in a mid-year survey, found E&D expenditures outside the United States growing annually at 9.5 percent.

This prompted Wicklund and his associates to predict that 70 percent of all E&D spending over the next 12 to 18 months will be in the non-communist sector of the international market.

It is these huge expenditures that will fuel a strong upturn in international drilling, Wicklund said, though that trend has yet to appear.

He said that the international rig count has fallen six consecutive months this year and averaged 869 rigs in June, excluding the U.S. and communist countries. This, he said, is due to the international exploration cycle.

He expects the international rig count to begin showing strong increases in late 1993, as seismic surveys and infrastructure develop-

ment projects currently under way come to a conclusion and the exploration cycle matures.

ANOTHER FACTOR in the international upswing, Wicklund said, will be the nature of commitment in international sectors. Internationally, companies do not have the flexibility in timing and level of exploration and development activities that they do domestically.

Because mineral resources are, in many cases the primary asset for many countries and in many cases national governments control most aspects of oil and gas, joint venture and/or production-sharing agreements are characterized by long-term, financially committed contracts with specifics on such criteria as seismic miles and wells drilled.

Wicklund said that because cash flow from these projects takes five to seven years, short-term variances in crude prices have little impact on the projects.

Analysts aren't looking for significant crude price declines over the next five years, he said, because of production declines in the United States and the Commonwealth of Independent States and a tug-of-war between members of the Organization of Petroleum Exporting Countries and the European Community over a proposed carbon tax.

"With approximately 70 percent of global E&D spending tied to long-term, work-commitment projects with significant penalties for non-performance, and protracted weakness in crude oil prices as about the only real potential deterrent, we expect a secular up-trend of global service and equipment activity," he said.

Companies already broadly established in the international sector will benefit from this activity improvement, he said.

Operational flexibility to enter new markets quickly and efficiently is becoming more important, as is management equipped to understand international operations and psychology, he said.

One of the partners is University Lands. Steve Hartmann, director of University Lands in Midland, said it was in the best interest of University Lands to participate in programs that help operators improve and sustain production.

"We have lands, geologists and engineers that we could offer to research and technology transfer programs," Hartmann said.

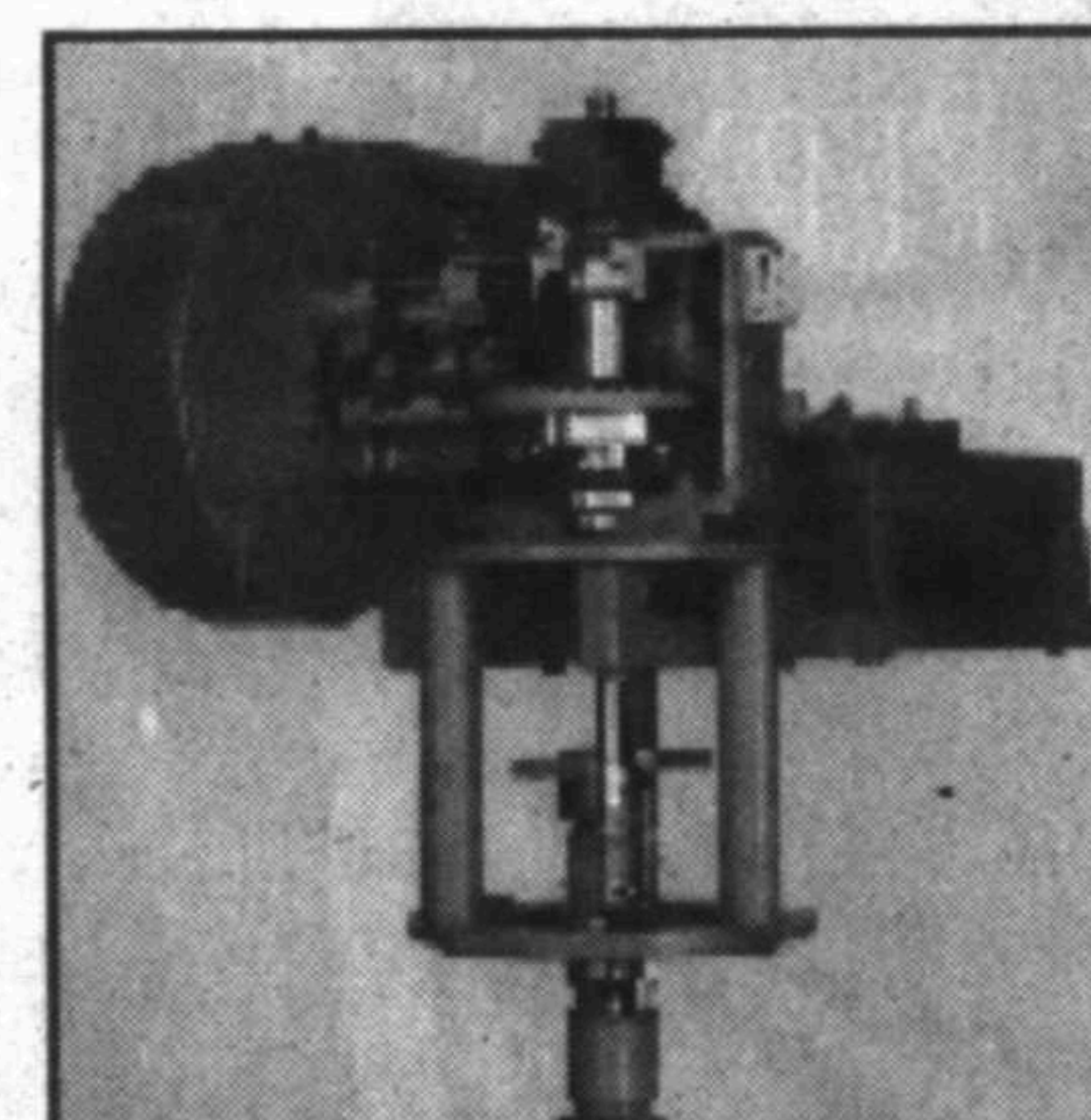
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Highland's PC pump - better for production than ESP.

CEED: DOE and UTPB have plans for facility

(From 5AA)

Sharpe said the center would definitely play a role in assisting local operators to prepare proposals for reservoir research in conjunction with DOE Shallow Shelf Carbonate Reservoirs; but that continuing activity would be DOE's prerogative.

Sharpe said if CEED was to become a technology transfer center

for the energy industry, now was the opportune time because of the renewed interest in increasing domestic production and halting the premature plugging of wells.

"I am clearly convinced that more can and needs to be done out here to support the oil industry," he said.

He added that UTPB was working to develop partnerships for the utilization of CEED.

Gas market undergoes turnaround, study finds

By John Paul Pitts
Business/Oil editor

Many analysts are betting that the results of a joint study by Arthur Andersen & Co. and Cambridge Energy Research Associates will prove true this winter.

The study predicted that the firming of natural gas prices were the early signs of a turnaround in the industry.

But a report by a consulting firm says the real price of natural gas is likely to remain below 1989 prices, despite a turnaround.

The study "Natural Gas Trends" says the first signs of turnaround in natural gas markets are being created by fundamental changes in the marketplace and regulatory changes that will drive the natural gas industry toward increased price volatility and competitive realignment over the next few years.

The study went on to say that the primary marketplace factor driving the industry is increased demand.

"Demand growth, which has increased 20 percent in the last five years, is the most important factor tightening the market," says Everett Gibbs, director of natural gas industry services for Arthur Andersen.

Meanwhile, demand is expected to increase even more in the com-

ing months from new markets such as natural gas vehicles, exports to Mexico and natural gas cooling.

The sweeping changes of FERC Rule 636 are also seen as having a profound impact on natural gas markets because the rule is expected to result in a more competitive realignment of the industry and increased price volatility year-round.

"The pace of competitive restructuring and price volatility still depends on a number of market and regulatory factors, but the industry as a whole has clearly entered a new cycle that includes increased consumption, growing supply constraints, new competitive pressures — and for some producers a return to profitability," Gibbs said.

The study says new transmission capacity, and the natural gas futures market will play a role in pricing, while increased storage will serve to buffer price shocks.

Gibbs said that FERC Order 636 creates two commodities: natural gas and transmission capacity. This will reduce the customer's need to use interruptible transportation, place greater cost and risk pressures on distribution companies and end-users and create more opportunities for gas merchants.

The study concludes that dis-

tributors and end-users will need to adopt new methods for buying, pooling, balancing, transporting and storing gas. This will create new opportunities for gas marketers, brokers, producers and other middlemen to provide new, re-bundled services, according to the study.

However, the real price for natural gas may be lower than the 1989 price, when industry experts say prices hit bottom.

DAR & Co., a natural gas consulting firm, predicts that sufficient gas supplies will be forthcoming at "far lower prices than most people forecast in 1989."

The consulting firm predicts that the real price of gas in 1995 will be no higher than 1989 and that the real price in the year 2000 could be even lower.

DAR & Co. points out that the average wellhead price a decade ago was approximately \$2.50 per MMBtu, and explains that the average 1992 price would have to be about \$3.70 per MMBtu to offset a decade of inflation.

While real gas prices are now less than half what they were a decade ago, no deliverability collapse has occurred, and consultants attribute this to the ingenuity and determination of the producer who has offset the decline in prices.

Odessa rod manufacturer exports technology to China

■ Fiberflex typifies turnaround opportunity presented by overseas oil markets.

Staff report

Fiberflex of Odessa is ready to make a turnaround move by exporting its technology to build fiberglass sucker rods to China.

Four years ago Fiberflex began negotiations with the Chinese regarding a technology transfer. China wants to produce fiberglass rods for its own use, but it will also make rods for sale. The rods will also be sold throughout the Pacific Rim, with Fiberflex acting as sales agent.

"To prove the benefit of fiberglass, we began by installing three of our rod strings in Chinese wells," said Mark Neinst, sales manager. "A training process followed from 1990 until

May of this year. This was a unique project for a small West Texas company to undertake. We actually did 90 percent of the work ourselves, from travel and personnel arrangements to published materials."

Neinst said Permian Basin producers are excited about fiberglass' overtravel capability. In China, it's quite another matter.

"Iron ore is hard to come by in China and so is electricity," Neinst said. "So the idea that they could produce rods made of fiberglass, and then produce their wells using less power is very appealing to the Chinese."

He said they have spent time qualifying Chinese raw materials to meet Fiberflex's standards, and the resulting technology transfer has been very successful.

The China venture is not the only international venture for Fiberflex which has also sold rods to South America, France, Canada and Mexico.

Electric pickup travels coast to coast

PHOENIX (AP) — Dan Parmley brought his own fueling station when he and others embarked last month on what was the first coast-to-coast trip in an electric car.

The "Electric Cross-Country Challenge" was designed by Parmley's Phoenix-based Diversified Technical Service Inc. to introduce what may be the key to using a zero-emission automobile in the future: the Electric Vehicle Fueling Station.

It was also designed to disprove the theory that electric cars are just for around town, while proving that they can go across country if the infrastructure is there, said Parmley, president of the 12-year-old environmental and energy systems company.

The company used a converted Chevy S-10 pickup on its six-day, 2,500-mile trip. The vehicle left Santa Monica, Calif., on Sept. 18 and, after overnight stops in Phoenix, El Paso, Austin, Baton Rouge,

and Tallahassee, arrived in Jacksonville, Fla. on Sept. 23.

Parmley was one of a number of drivers and said his research has found no coast-to-coast excursion in an electric car.

The electric pickup used in the trip was followed by a flatbed truck hauling the fueling station. There were also already-charged battery packs to be swapped with depleted ones so the pickup didn't have to stop for long periods to recharge.

Parmley said he envisions placing fueling stations at shopping malls where consumers can recharge their vehicles while they shop, and then pay for the electric current by credit card. He said the fueling station used in the trip can accommodate 30 cars, but there is a design to serve 100 cars.

"At cost, electric cars will run at one-fourth or one-half of the price of gasoline-type vehicles," he said. Those in the industry say elec-

tric cars are a boom for electricity companies, who can sell excess electricity during the low-demand night hours to consumers for recharging their vehicles.

Technologies that are being readied include a "quick charge" in which a vehicle can be recharged in about the same amount of time it takes to fill up a car with gasoline, Parmley said.

Electric cars run off a series of "deep-cycle" dry cells, similar to the ones used for golf carts and designed for repeated recharging, but such rapid surges of current shorten even those batteries' lives, said Jessie James, vice-president of suburban Tempe-based Sun Belt Battery.

If there is any one thing holding back electric cars it is the battery itself. An electric pickup similar to the one the company used was displayed prior to the trip with its bed more than half full with the battery pack.

1992

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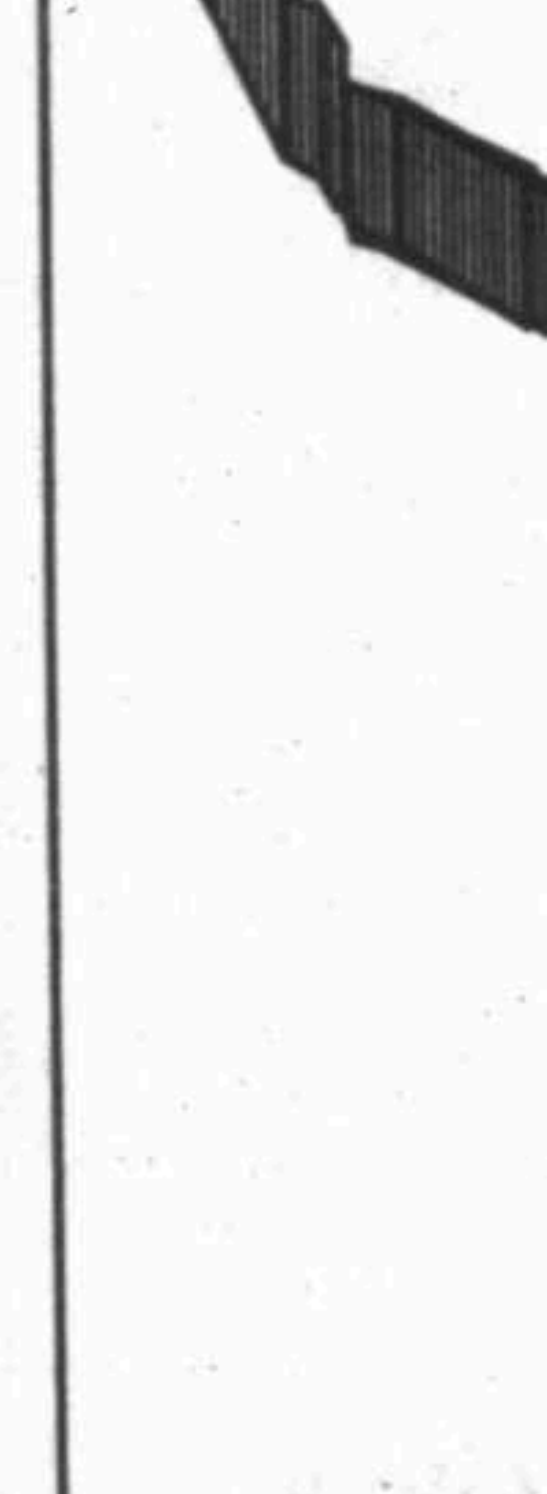
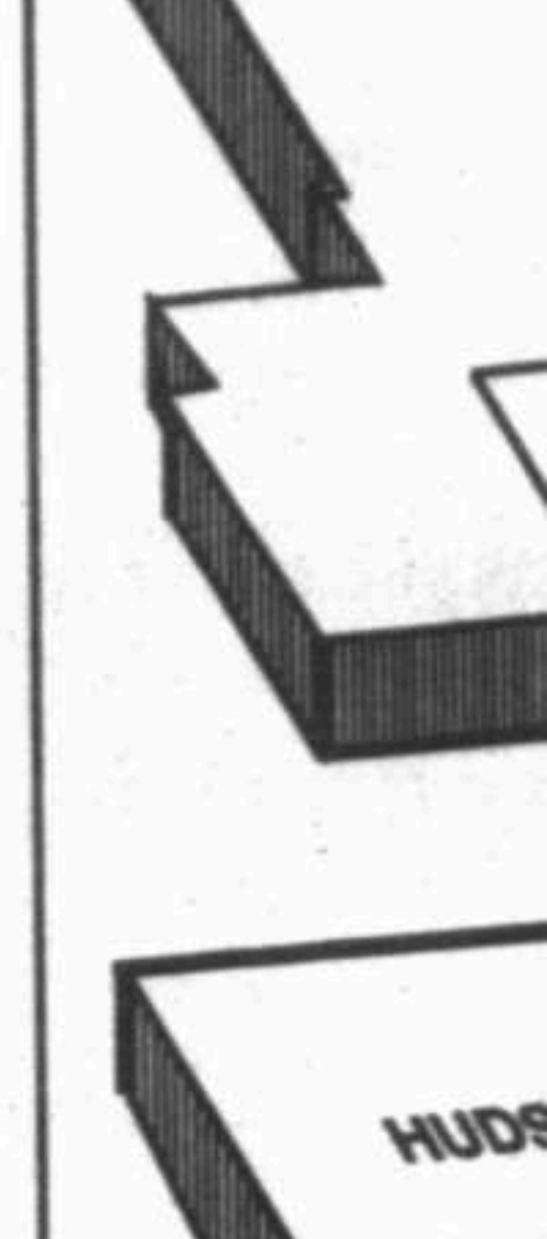
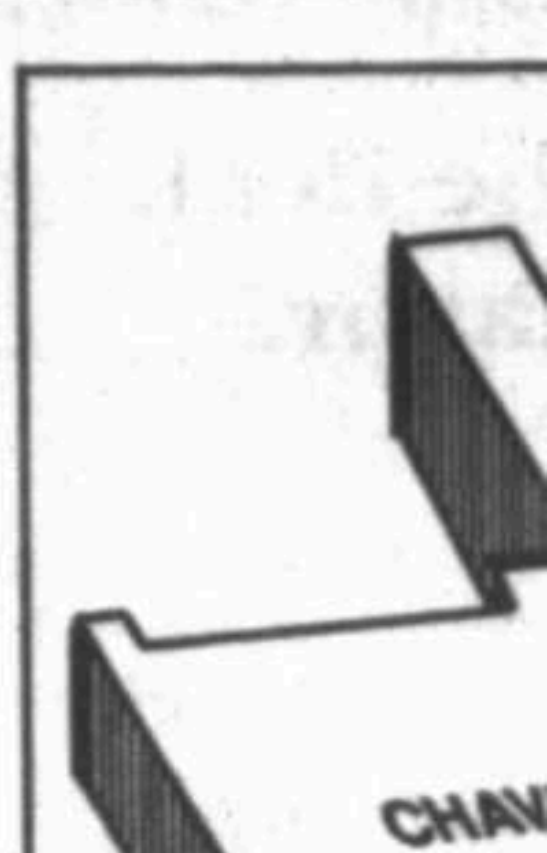
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ACTIVITY



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Staff report

An undesigned been recorded in north of Siluria the Bralley field northeast of De

EP OPERA

tialled the No. 5 335 barrels of 3 143 Mcfd and 12 on a 14/64 inch tubing press well flowed fr 10,155 to 10,184 ft acidized with 7 percent NeFe a

Drilled to 11,5 inch casing was plugged back to Formation top vation of 3,481 Glorieta at 6,806 fork at 6,964, Tu Clearfork at 7,6 and Wolfcamp Location is 8 and 467 ft. from tion 755, Block survey, Abst. 96

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WILDCAT

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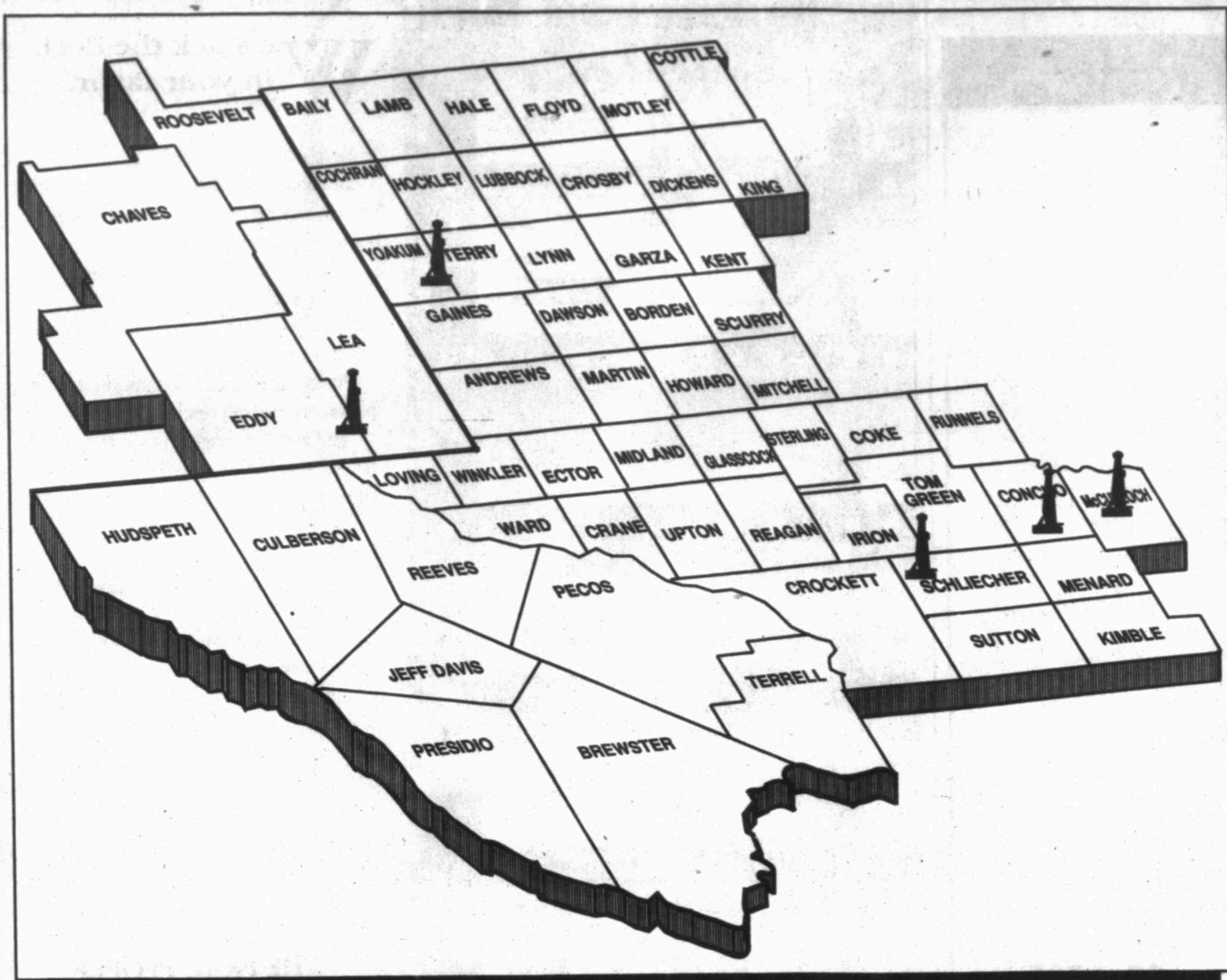
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DEVELO

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■ FORTSON OIL CO

ACTIVITY HIGHLIGHTS



Yoakum yields 335-barrel discovery

Staff report

An undesignated discovery has been recorded in Yoakum County, north of Silurian production in the Bralley field, 12 miles east-northeast of Denver City.

EP OPERATING CO. potentialized the No. 5 A.T. Carter to flow 335 barrels of 36.9 gravity crude, 143 Mcfd and 12 barrels of water on a 14/64 inch choke with flowing tubing pressure of 440 psi. The well flowed from perforations 10,155 to 10,184 ft., which had been acidized with 7,750 gallons of 15 percent NeFe acid.

Drilled to 11,500 ft., where 5 1/2 inch casing was set, the well was plugged back to 11,411 ft.

Formation tops, on ground elevation of 3,481 ft., include the Glorieta at 6,806 ft., Upper Clearfork at 6,964, Tubbs at 7,496, Lower Clearfork at 7,692, Dean at 9,418, and Wolfcamp at 9,680 ft.

Location is 853 ft. from south and 467 ft. from west lines of Section 755, Block D, John H. Gibson survey, Abst. 96.

Eddy reentry nets Delaware discovery

An Eddy County, N.M. well has

been reentered and completed as a Delaware discovery.

ENRON OIL & GAS CO. reentered the No. 1 Poker Lake "32" State, completing it to flow 260 barrels of 40 gravity crude, 570 Mcfd and 56 barrels of water from perforations 7,826 to 7,872 ft. The interval was acidized with 2,000 gallons 15 percent NeFe acid and fractured with 62,000 lbs. 20/40 sand and 8,000 lbs. 16/30 sand.

Originally drilled to 14,925 ft., the well was plugged back to 7,910 ft. A five inch liner hung from 12,263 to 14,924 ft.

Location is 680 ft. from north and 1,980 ft. from east lines of T23s, R31e.

Undesignated find tested in Concho

M&W PETROLEUM CO. has completed an undesignated gas discovery in Concho County, nine miles south of Eden.

On potential test, the No. 1 Loveless flowed a calculated absolute open flow of 1.19 Mmcf from perforations 2,793 to 2,796 ft. The interval was treated with 1100 gallons of gellant 3,500 lbs. sand.

Total depth was 3,303 ft., where

4 1/2 inch casing was set, and the well was plugged back to 3,261 ft.

On ground elevation of 2,142 ft., formation tops include the Breckenridge Limestone at 1,770 ft., King Sand stone at 1,820, Bunker Limestone at 2,244, Base Palo Pinto at 2,785, Capps at 3,183, and Goen Limestone at 3,225 ft.

Location is 1,695 ft. from north and 467 ft. from east lines of Section 1, Block 72, John H. Gibson survey, Abst. 322.

Strawn discovery pumps 88 barrels

A Strawn discovery has been completed in McCulloch County, with no nearby production, five miles south of Melvin.

GEOSURVEYS INC. tested the No. 1 Speck to pump 88 barrels of 30 gravity crude from perforations 1,215 to 1,256 ft. The interval was acidized with 750 gallons of acid and fractured with 45 sacks of sand.

Drilled to 1,800 ft., the well was plugged back to 1,744 ft., where 4 1/2 inch casing was set.

The well topped the Home Creek at 538 ft., Canyon at 900, Strawn at 1,212 and Ellenburger at 1,550 ft. on ground elevation of

1,880 ft.

Location is 1,555 ft. from north and 1,928 ft. from east lines of Peter Behrens Survey 1391, Abst. 82.

Schleicher field gets Canyon gas opener

Canyon Sandstone gas production has apparently been opened in the Gustav field of Schleicher County, 22 miles northwest of Eldorado.

DISCOVERY OPERATING CO. finalized the No. 2 State University "FQ" for a calculated absolute open flow of 1.6 Mmcf from perforations 7,011 to 7,298 ft. The interval was acidized with 2,350 gallons of 15 percent NeFe acid and fractured with 62,000 gallons of gel and 95,000 lbs. 20/40 sand.

Permitted as an 8,200 ft. wildcat, the well was drilled to 7,367 ft., where 4 1/2 inch casing was set, and plugged back to 7,319 ft.

The well topped the Base Wolfcamp at 6,121 ft., Canyon at 6,350 and Canyon Sandstone at 6,802 ft. on ground elevation of 2,569 ft.

Location is 660 ft. from north and 1,980 ft. from east lines of Section 14, Block 53, ULS survey.

WILDCATS

NEW MEXICO

CHAVES COUNTY
Wildcat (San Andres)
■ ELK OIL CO. CELTIC STATE #2; 85-27E-13; sw nw, 1650 fml 330 fml EL: 3950 GR. Obj: 2400 (San Andres). NL: 09/30/92. API# 30-005-22912. ID# T-449892.

EDDY COUNTY
Wildcat (Delaware)
■ MURCHISON OIL & GAS INC. RINGER #3; 25S-28E-3; nw ne, 785 fml 1880 fml EL: 3284 GR. Obj: 5300 (Delaware). NL: 09/30/92. API# 30-015-27144. ID# T-449827.

Wildcat (Morrow)
■ YATES PETROLEUM CORP. SEDGE UNIT #1; 22S-23E-18; se ne, 1980 fml 660 fml, 34 mi NE of Carlsbad. EL: 4268 GR. Obj: 9750 (Morrow). NL: 09/30/92. API# 30-015-27145. ID# T-449825.

Wildcat
■ YATES PETROLEUM CORP. DIANE ALQ FEDERAL #1; 22S-23E-23; nw nw, 960 fml 860 fml, 32 mi NW of Carlsbad. EL: 4108 GR. Obj: 9750 (Morrow). NL: 09/30/92. API# 30-015-27146.

Wildcat Count

This Week	10
Last Week	9
Year Ago	20

ID# T-449825.

TRC DISTRICT 7C

CONCHO COUNTY

Wildcat
■ HAM MAR PETROLEUM INC. - MCCULLOCH A #3 - RE-ENTRY; WILLIAM GLENN sur blk 70 sec 6, A-1569, 954 fml 622 fml of sec. 504 fml 622 fml of sec. 40 acre sec. 3 mi NE of Millersview.

Geomap: 5-12N-3E Summary Original Drill:
Oper: FLYING M EXPL. INC. Well: MCCULLOCH #1. P&A on 01/03/92. Casing: 8 5/8 @ 102 PRESENT OPERATIONS: EL: 1590 GR. Obj: 2300 test. NL: 12/26/91. API# 42-095-31425. ID# T-445185.

■ LAS COLINAS OIL CORP. - DANIEL ESTATE #2-A - RE-ENTRY; JOHN T BUSTIN sur blk 72 sec 14E, A-1146, 1545 fml 1573 fml of sec. 1425 fml 1578 fml of sec. 536.55 acre sec. (John T Bustin sur blk 72 sec 14E also known as T & N O R Co) 6 mi N of Eden. Geomap: 4-11N-2E Summary Original Drill: Oper: MARATA OIL & GAS CO. ID: 3721. P&A on 09/16/91. Casing: 8 5/8 @ 248 PRESENT OPERATIONS: EL: 1997 GR. Obj: 2000 test. NL: 09/04/91. API# 42-095-31387. ID# T-443095.

■ S R G OIL CORP. - ALEXANDER #2; JOHN F BUSTIN #14 sur, A-1146, 330 fml 330 fml of sur, 2401 fml 3007 fml of sec. 1136.40 acre sec. 3 mi N of Eden. EL: 2151 GR. Obj: 4000 test. NL: 10/08/92. ID# T-450004.

Wildcat

■ RUNNELS COUNTY

Wildcat

Information provided by Dwight's Energy data, Inc.

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DEVELOPMENT WELLS

NEW MEXICO

EDDY COUNTY

Grayburg Jackson
■ SORCERO PETROLEUM CO. H E WEST B #53; 17S-31E-9; se ne, 1350 fml 1250 fml, Located 6.5 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #52; 17S-31E-10; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #51; 17S-31E-11; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #50; 17S-31E-12; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #49; 17S-31E-13; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #48; 17S-31E-14; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #47; 17S-31E-15; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #46; 17S-31E-16; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #45; 17S-31E-17; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #44; 17S-31E-18; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #43; 17S-31E-19; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #42; 17S-31E-20; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #41; 17S-31E-21; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #40; 17S-31E-22; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #39; 17S-31E-23; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #38; 17S-31E-24; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.

■ SORCERO PETROLEUM CO. H E WEST B #37; 17S-31E-25; se ne, 1350 fml 1250 fml, Located 6.75 airmls NE Loco Hills. EL: 3698 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27148. ID# T-449921.

■ SORCERO PETROLEUM CO. H E WEST B #36; 17S-31E-26; nw nw, 1250 fml 100 fml, Located 6.75 airmls NE Loco Hills. EL: 3913 GR. Obj: 4900 (Grayburg). NL: 10/05/92. API# 30-015-27149. ID# T-449920.



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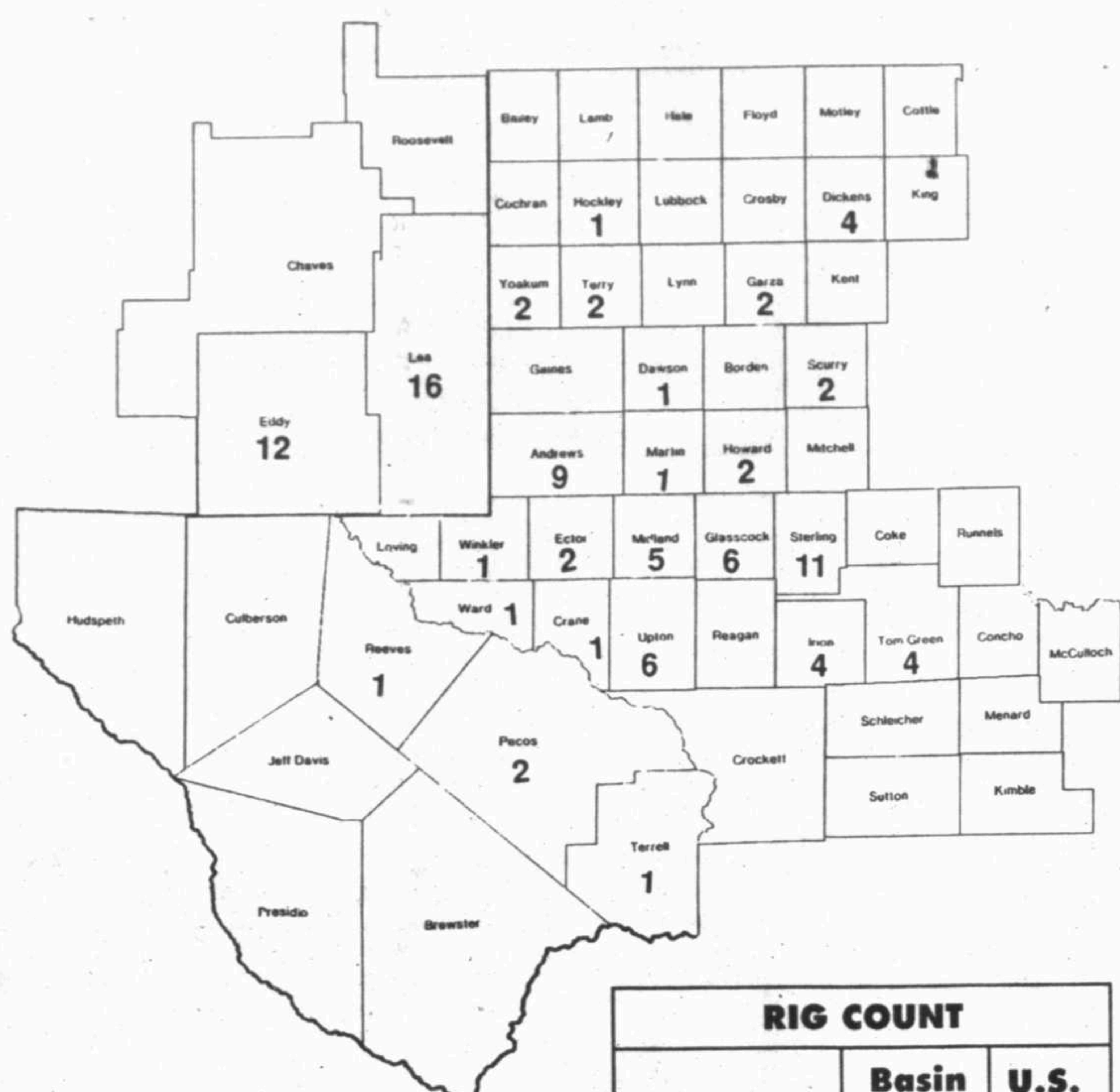
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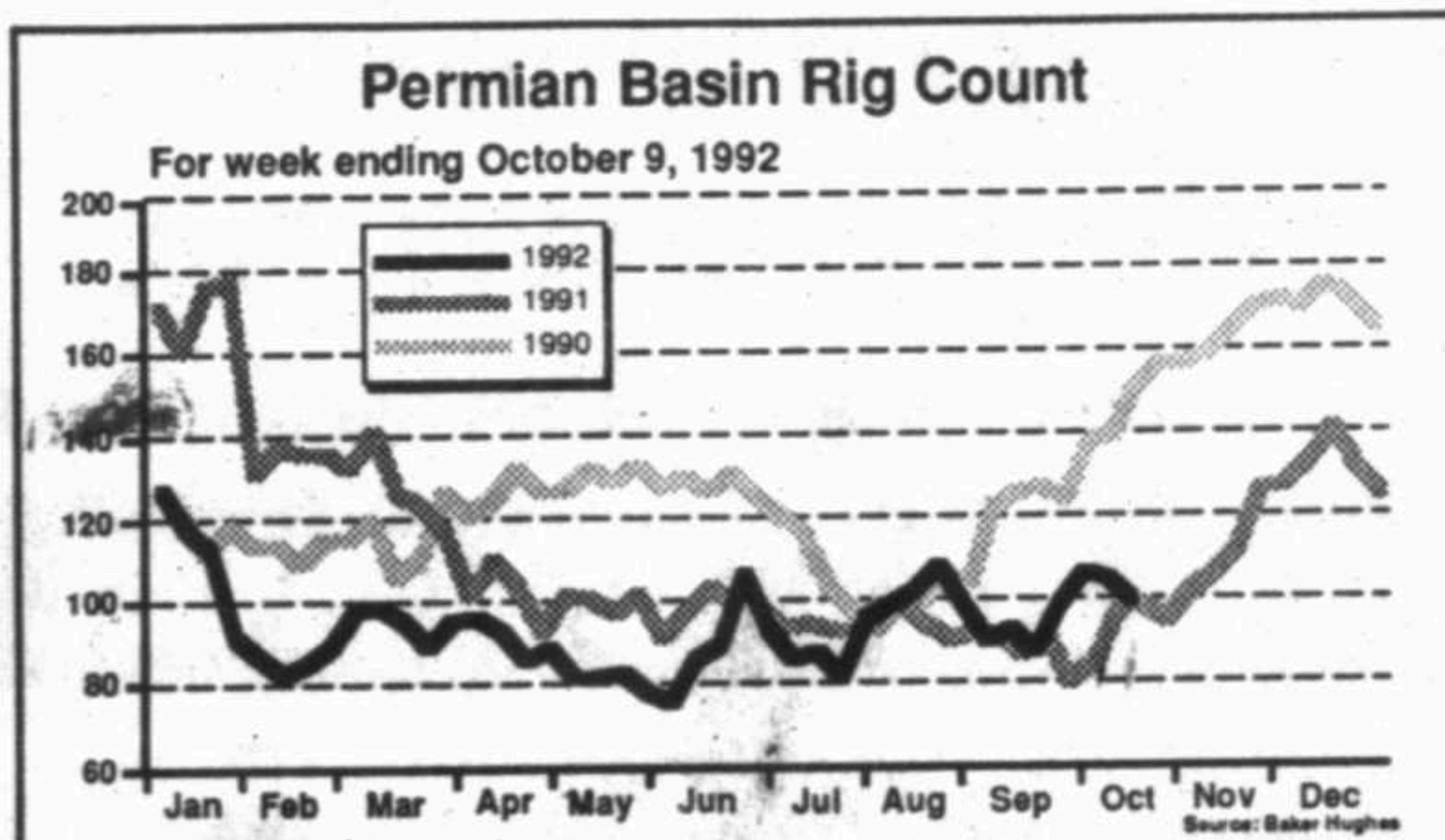
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(915) 682-7337

ACTIVITY INDICATORS

RIG COUNT PROFILE



RIG COUNT		
This Week	Basin	U.S.
99	787	
Last Week	104	756
Year Ago	98	796

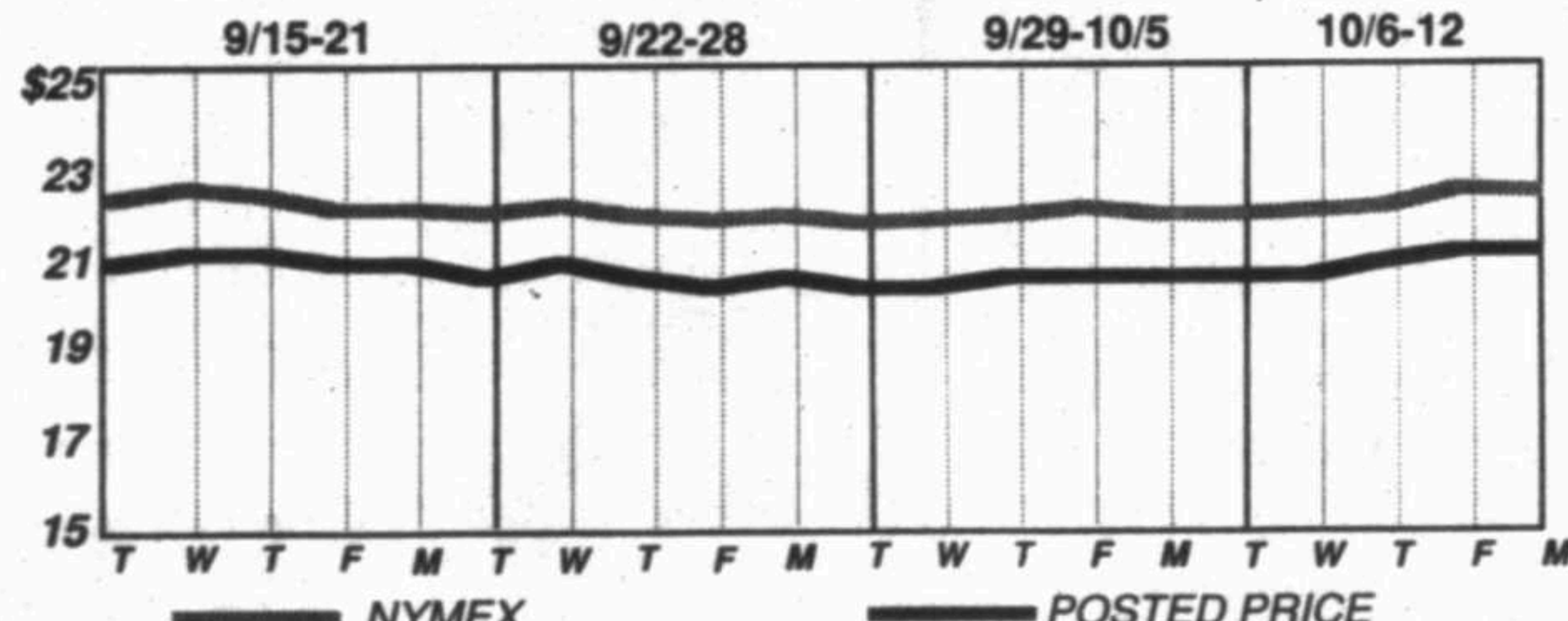


Permian Basin Rig Utilization	
This week	Last week
45.1%	44.8%

U.S. Rig Utilization	
This week	Last week
30.4%	29.8%

Crude Oil Prices

This Week's Average:



Current Posted Prices

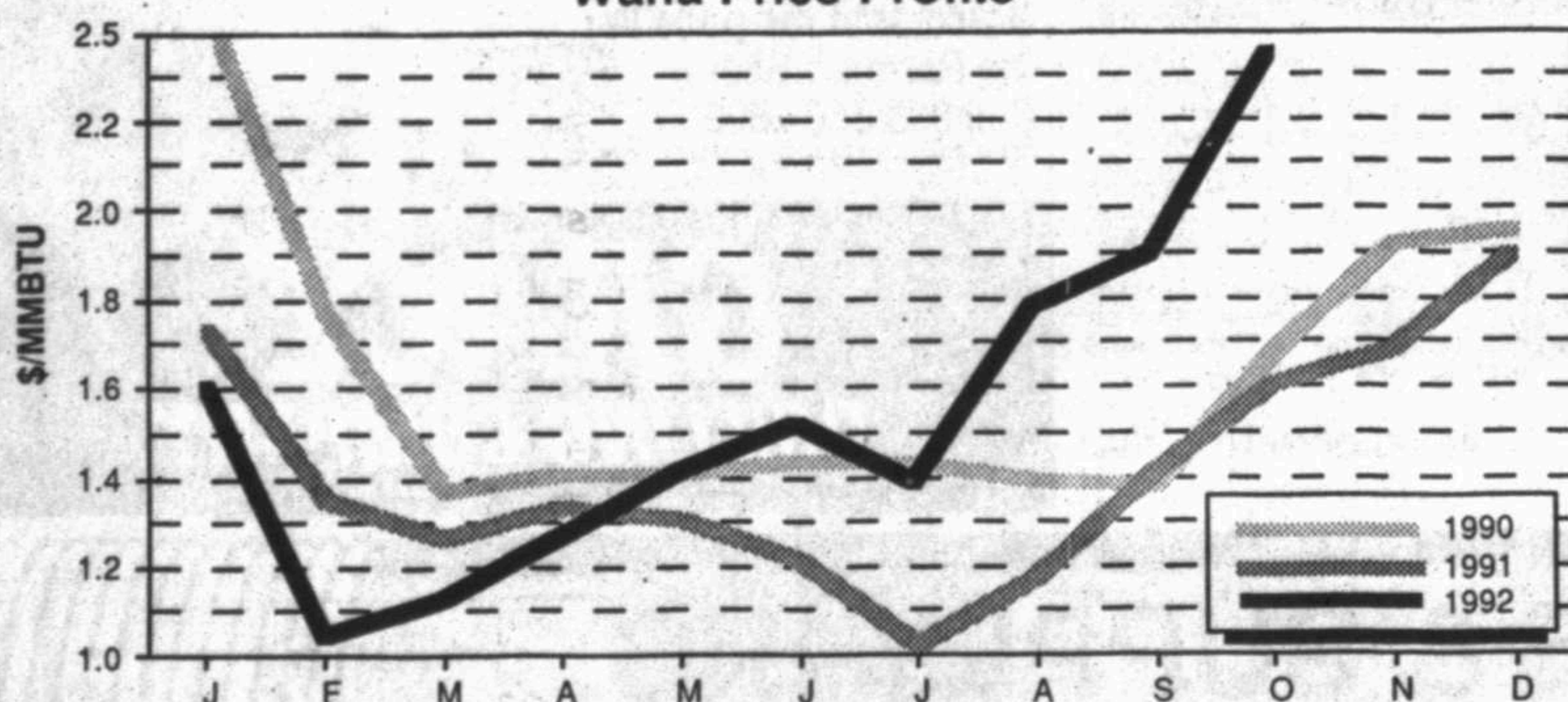
Amoco*	\$21.50	Fina*	\$21.00	Scurlock	
Arco	21.75	Koch	21.00	Permian*	\$21.00
Chevron	21.50	Marathon*	21.00	Shell*	21.50
Citgo	21.00	Mobil*	21.00	Sun*	21.00
Conoco	21.00	Navajo*	21.00	Texaco	21.00
Enron	21.00	Phibro*	21.00	Unocal	21.50
Exxon	21.75	Phillips*	21.00		

Note: Prices are effective Thursday afternoon prior to publication

*Net price without transportation charges

Spot Gas Price Comparison

Waha Price Profile



*Waha is a major natural gas collection header for the Permian Basin located in Pecos County.

Waha Averages

This month	Last month
\$2.38	\$1.92

Current Exchange Prices

MidContinent (Arkoma)	\$2.57
Gulf Coast (Louisiana)	\$2.60
Rocky Mountains (Wyoming)	\$2.10

Source: Robert K. Anderson & Associates

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Shamrock starts up crude pipeline

Staff report

SAN ANTONIO Shamrock officials announced the start of a 10-mile crude oil pipeline from ita Falls, Texas, to the McKee refinery in Houston. The new pipeline has an initial capacity of 100,000 barrels per day with a capacity of 100,000 barrels per day.

Diamond Shamrock President Bob Mehner said the 14-inch pipeline will improve the refinery's ability to process sour crude oil from the Permian Basin. The pipeline will also allow the refinery to process oil from major fields.

At Wichita Falls, the Arco and Texas City refineries, which bring crude oil from the Texas Gulf Coast into the Permian region. It will receive crude oil from the Permian Pipeline, which transports oil from major fields.

The McKee plant is the largest of Diamond's two refineries.

DEVELOPMENT

(From 11AA)

449960. ARCO OIL & GAS CO. PLUG BACK: sw sw, 660 ft. OPERATIONS: EL: 3-10/05/92. NL: 10/05/92. ID# T-449961. Hat Mesa (Morrow). CONOCO INC. COMAN: 33E-8: sw se, 860 ft. Obj: 14550 (Morrow). N: 025-31746. ID# T-449999. Justis. CONOCO INC. STATE: sw se, 2310 ft. 1980. Drill: Field: JUSTIS TUB: (Tubb/Drinkard) IP: F 12 MCFGPD on 22/84 ck. Casing: 13 3/8 @ 393 w/1850 - 7 @ 6910 w/2352 Seven Rivers 2823 3362 San Andres 3619 5072 Tubb 5728 Drinkard. SENT OPERATIONS: EL: (Blineby): NL: 06/21/92. ID# T-441783. Livingston Ridge E. Delaware). POGO PRODUCING: 22S-32E-7: se se, 660. Carlsbad. EL: 3708 GR. NL: 10/05/92. API# 449923. POGO PRODUCING: 22S-32E-7: sw sw, 660. Carlsbad. EL: 3639 GR. NL: 10/05/92. API# 449924. POGO PRODUCING: 22S-32E-18: sw nw, 165. Carlsbad. EL: 3623 GR. NL: 10/05/92. API# 449922. Tubb. CHEVRON U.S.A. INC. TATE #8 - RECOMPLET: 680 ft. PRESENT OPER: NL: 10/05/92. API# 449936. Tubb North (Wolfcamp). YATES PETROLEUM: #1 - RECOMPLETION: Summary Original Drill: Compl: on 02/16/83.

COMPLETION

NEW MEXICO

EDDY. Dagger Draw South. YATES PETROLEUM: FEDERAL #11: 20S-24 1980 ft. 31 mi SW of Obj: 8300 (Canyon). N: 015-27054. ID# T-4488. TD: 8120. Compl: on 01/10/91/92. PZone: (P BOPD Perfs: (Pennsylv Indian Leater (Upper). YATES PETROLEUM: FEDERAL #1 - PLUG BACK: twl Summary Original. KD COM #3 - PLUG BACK: twl Summary Original. 412 w/400 - 8 5/8 @ 9360 w/575 PRESENT GR. NL: 10/05/92. AP 449918. Resume: 04/8185. Recompl: on 05/10/05/92. PZone: 76 30 MCFGPD on 1/8 ck. 7506 Perfs: - CIBP @ (Canyon) w/12 holes 1 7620, 7622, 7625 - aci 20 ball sirs - reacid w ball sirs. Willow Lake (Bone S. W PETROLEUM CO: 359 w/625 - 8 5/8 @ 8500 w/1435 PRESENT GR. NL: 10/05/92. ID# T-449914. Resume: 07/15/92. BAS (Last 5872-6030 (Canyon) test: F 346 MCFG on 1 - Calc: 2077 MCFGPD 1400 Tubing: 2 7/8 @ 7930 - Perf 5996-600 holes total @ 5996-6 w/4000 gal 15% NE 5872-5882 (Canyon) w acid w/3000 gal 15% Undesignated (Cany. YATES PETROLEUM: PLUG BACK: se ne, 1 Original Drill: Casing: 9 5/8 @ 9679 w/150 12,260 w/745 - 4 1/2 PRESENT OPERATION: 10/05/92. API# 30-01



Permian Basin Petroleum Association Thirtieth Anniversary 1962-1992

ANNUAL MEETING / ENVIRONMENTAL SEMINAR NOVEMBER 5-6, 1992

ANNUAL MEETING REGISTRATION FORM

Name _____	Badge Name _____
Company _____	Title _____
Address _____	Phone (____) _____
City _____	State _____ Zip _____
Spouse's name for badge _____	

EXPECTATIONS 1993

1992 reflects 30 years of PBPA service to the Permian Basin Petroleum Industry. In the past three decades we have enjoyed numerous achievements, met difficult challenges successfully but sadly, lost some battles in the Association's plight to enhance the domestic petroleum industry and to defend our members from the unjust legislation which has dismantled the industry.

Many of the problems of the past remain the challenges of today. Perhaps the most demanding challenge is the increased concern for a balance between energy production, and the protection and preservation of the environment. There are many opportunities for industry expansion in 1993 and we look forward for industry revitalization and for a return to enhanced times. Please make early reservations so that we may better serve you.

Thursday, November 5, 1992

HOLIDAY INN COUNTRY VILLA CONVENTION CENTER

ENVIRONMENTAL SEMINAR

7:30 - 8:20 a.m. REGISTRATION
8:30 - 3:30 p.m. THE PRODUCTION, PROTECTION AND PRESERVATION BALANCE

THE PLAZA CLUB OF MIDLAND

5:30 - 8:30 p.m. *REGISTRATION & ICEBREAKER
Cocktails & Hors D'oeuvres

Friday, November 6, 1992

PETROLEUM CLUB OF MIDLAND

7:30 - 8:45 a.m. *KICK-OFF BREAKFAST
Keynote Speaker: Gene Ames
Chrm., Independent Petroleum Association of America

9:00 - 10:15 a.m. *INTERNATIONAL OPPORTUNITIES FOR INDEPENDENTS
Leader: Frank Burke, Jr.
Chairman and CEO, Burke, Mayborn Co., Ltd.

10:30 - 11:45 a.m. ENERGY TAX POLICY OPTIONS
Leader: Craig Goodman
V.P., Mitchell Energy Corporation

12:00 - 1:30 p.m. *GENERAL MEMBERSHIP LUNCHEON
Agenda: Committee Reports & Awards
Keynote Speaker: The Honorable John Sharp
TEXAS COMPTROLLER OF PUBLIC ACCOUNTS

1:45 - 3:00 p.m. TEXAS NATURAL GAS PRODUCTION
Leader: David Garlick
Dir., Oil & Gas Division, Texas Railroad Commission

3:15 - 4:30 p.m. INITIATIVES IN NEW MEXICO NATURAL GAS MARKETING
Leaders: Ron Merrett
Dir., Natural Gas Programs, N.M. Oil Conservation Division

6:00 - 7:00 p.m. *PRESIDENT'S RECEPTION
7:00 - 9:00 p.m. *PRESIDENT'S BANQUET
Posthumously Honoring: B.J. 'Joe' Pevehouse
1992 Top Hand Award Recipient
Featuring: Dr. Robert W. Lawless
President, Texas Tech University
Keynote Speaker: The Honorable Pete Domenici
United States Senator - New Mexico

*Events require name badges and event tickets

SEMINAR REGISTRATION INFORMATION: This is a SPECIAL EVENT which requires a separate registration and fee from the regular annual meeting registration. The Seminar registration fee is \$25 and is to be made payable to: PBPA Environmental Seminar and mailed to University Lands, P.O. Box 553, Midland, TX 79702. Please use the form provided for this special event.

FULL REGISTRATION FEES (ALL EVENTS EXCEPT "ENVIRONMENTAL SEMINAR")

Pre-paid Full Registration Before October 31:

\$75 Single Registration \$150 Couple Registration

Late-paid or on-site Full-Registration after October 31:

\$90 Single Registration \$150 Couple Registration

REGISTRATION PER PERSON FOR MEALS ONLY

	By Oct. 31	After Oct. 31
Kick Off Breakfast	\$15.00	\$20.00
General Membership Luncheon	\$25.00	\$30.00
President's Reception/Banquet	\$40.00	\$45.00

Registration fees must accompany this form or be paid at the registration desk. We regret there is no billing of registration fees. If paying for individuals other than self and spouse, please indicate names on a separate sheet.

Tickets and Badges will be issued at the Plaza Club and The Petroleum Club of Midland.

MAIL TO:

PBPA annual meeting
P.O. Box 132
Midland, Texas 79702
(915) 684-6345 FAX (915) 684-7836

EVENT LOCATIONS:

November 5th - Environmental Seminar
Holiday Inn Country Villa
November 5th - Icebreaker/Registration - Plaza Club
November 6th - All Events
Petroleum Club of Midland
P.B.P.A. Membership is not Required.

ENVIRONMENTAL ISSUES OF THE PERMIAN BASIN THIRD ANNUAL SEMINAR

Holiday Inn Country Villa Convention Center

November 5, 1992

The University of Texas System in association with the PBPA, presents its third annual program of environmental concerns designed to expand an understanding of environmental issues and to provide guidance and solutions for compliance to local, state and federal regulations. This seminar is tailored to management and field level personnel.

The Program - Production, Protection and Preservation Balance

7:30 - 8:20 a.m. REGISTRATION
(Complimentary Refreshments)

8:30 a.m. WELCOME
J.D. Faircloth, Mayor, Midland

8:40 a.m. INTRODUCTIONS
Steve Hartmann, Director - West Texas, University Lands

8:45 a.m. KEYNOTE
Dr. Margaret Maxey, Director,
Clint W. Murchison, Sr. Chair of Free Enterprise
University of Texas at Austin

9:45 a.m. LAGUNA QUATRO PLAYA LAKE
John Sherman, Wildlife Management Biologist
Bureau of Land Management
Harry Spannaus Exec. V.P., Permian Basin Petroleum Association

10:15 a.m. BREAK - Vendor Area (Complimentary Refreshments)

10:45 a.m. LIMITING DISPOSAL LIABILITY
Alice Megna, Environmental Engineer, EnviroSource

11:30 a.m. NEW RULES: PLUGGING & MECHANICAL
INTEGRITY REQUIREMENTS
David Garlick, Director, Oil and Gas Division
Railroad Commission of Texas

12:30 p.m. LUNCH (Complimentary)

1:30 p.m. REMOVAL/REMEDIATION OF OILY DIRT PANEL
Moderator: Joe B. McShane, Jr., President, J. McShane, Inc.
Mark Henkhaus, Director, District 8.
Railroad Commission of Texas
Robert Jacques, Consultant, Jones & Neusse, Inc.
Roy Raney, Jr., Owner, Big Lake Double R, Inc.
James L. Powell, Banker/Rancher, Eldorado, Texas

5:30 p.m. EXHIBIT DISPLAY
'Solutions to Everyday Problems - Using Everyday Tools'
(Complimentary Refreshments)

Detach and Return for Reservations

ENVIRONMENTAL ISSUES IN THE PERMIAN BASIN SEMINAR

*\$25.00 per person before October 31, 1992. *\$30 after October 31, 1992

NAME	COMPANY	ADDRESS	PHONE NO.
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Number Attention _____

Amount _____

Make checks payable to PBPA Environmental Seminar, and mail to University Lands, P.O. Box 553, Midland, TX 79702



Eugene Ames, Jr.



Frank M. Burke, Jr.



Senator Pete Domenici



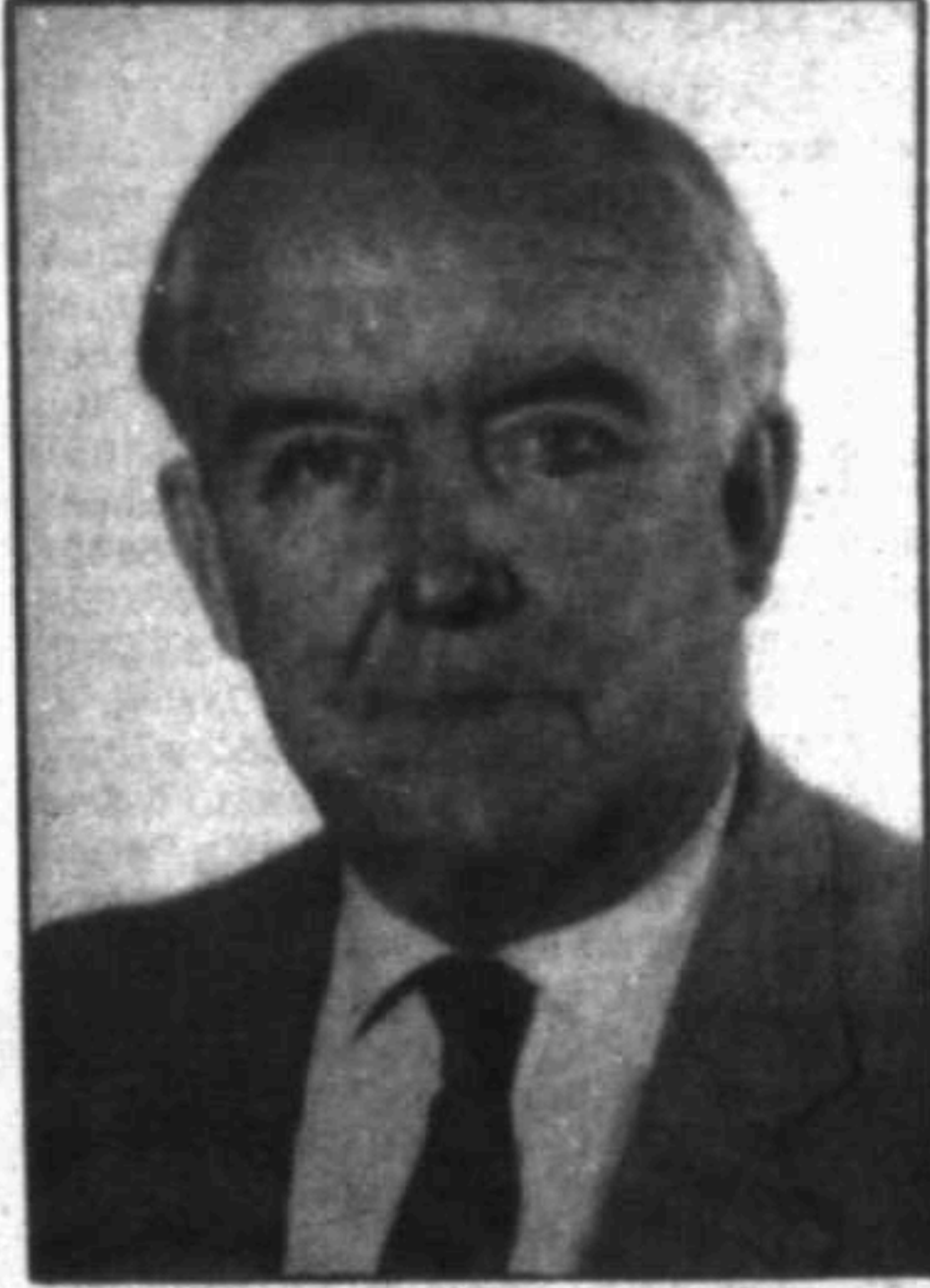
David Garlick



Craig Goodman



Dr. Robert W. Lawless



Ron Merrett



Joe Pevehouse



John Sharp

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Staff report

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Second-half drilling outlook seems brighter

■ Predictions point to better second half for industry, but 1992 will be below 1991.

Staff report

Oil & Gas Journal, the leading trade publication for the industry, sees positive signs for the future.

Earlier this year, the Tulsa-based publication predicted that tightening oil and gas markets would create a modest second half drilling recovery in the United States and so far that prediction is holding true as rig counts have improved ever so slightly.

World Oil, another leading industry publication, said it was optimistic about second-half drilling, noting that a second-half drilling upturn, while positive should not overshadow the fact that 1992 threatens to be the worst year for drilling since 1943.

The magazine attributes improved natural gas prices and, perhaps, increased capital achieved by downsizing as the reasons for the upturn.

Oil and Gas Journal credits improved oil prices. It says oil production capacity, which surpasses oil prices, is slowly disappearing, while oil demand continues to rise, resulting in strengthened oil prices.

The publication also credits improved natural gas prices for improving drilling economics.

But it warns that a second-half recovery probably won't be strong enough to produce a drilling gain for the entire year. Drilling rigs, in fact, are expected to fall 19 percent for the year.

Of course those original predictions for a better second were made before Hurricane Andrew, which damaged production platforms in the Gulf of Mexico and helped to stiffen natural gas prices. That event alone almost insured that the positive predictions would come true.

One can only wait and see if other predictions will hold true. In its Midyear Forecast/Review special report which was published in July made these predictions:

■ Wellhead revenues of \$77.8 billion in the U.S., a 5 percent increase from 1991, but oil and gas companies may invest only 10.5 percent of that in drilling, compared with 13.5 percent last year.



A pumpjack is superimposed in front of the Midland skyline. Oil and the future of the Tall City are inseparable and predictions indicate conditions may improve for the second half of the year.

■ Operators will drill 23,630 oil wells, gas wells and dry holes this year, compared with an estimated 28,778 in 1991. Of this year's total, 4,896 will be exploratory wells.

■ In Western Canada, operators will drill 4,243 wells this year, OGJ says. They drilled an estimated 1,916 wells during the first half.

■ Average U.S. demand for petroleum products will increase 1.7 percent this year to 16.99 million barrels per day. Demand fell during each of the preceding two

years.

In the first half, demand rose 1 percent from first half 1991 to an estimated 16.6 million barrels per day, excluding small volumes of exports.

■ Second half demand will rise 2.4 percent from the corresponding 1991 period to 17.38 million barrels per day.

■ Average U.S. production of crude oil and condensate will drop 2.3 percent during 1992 to 7.245 million barrels per day, its lowest level since 1961.

A second-half drilling upturn . . . should not overshadow the fact that 1992 threatens to be the worst year for drilling since 1943.

With demand up and production down, total imports will increase. OGJ projects a 4.5 percent imports gain to 7.97 million barrels per day — 47 percent of demand.

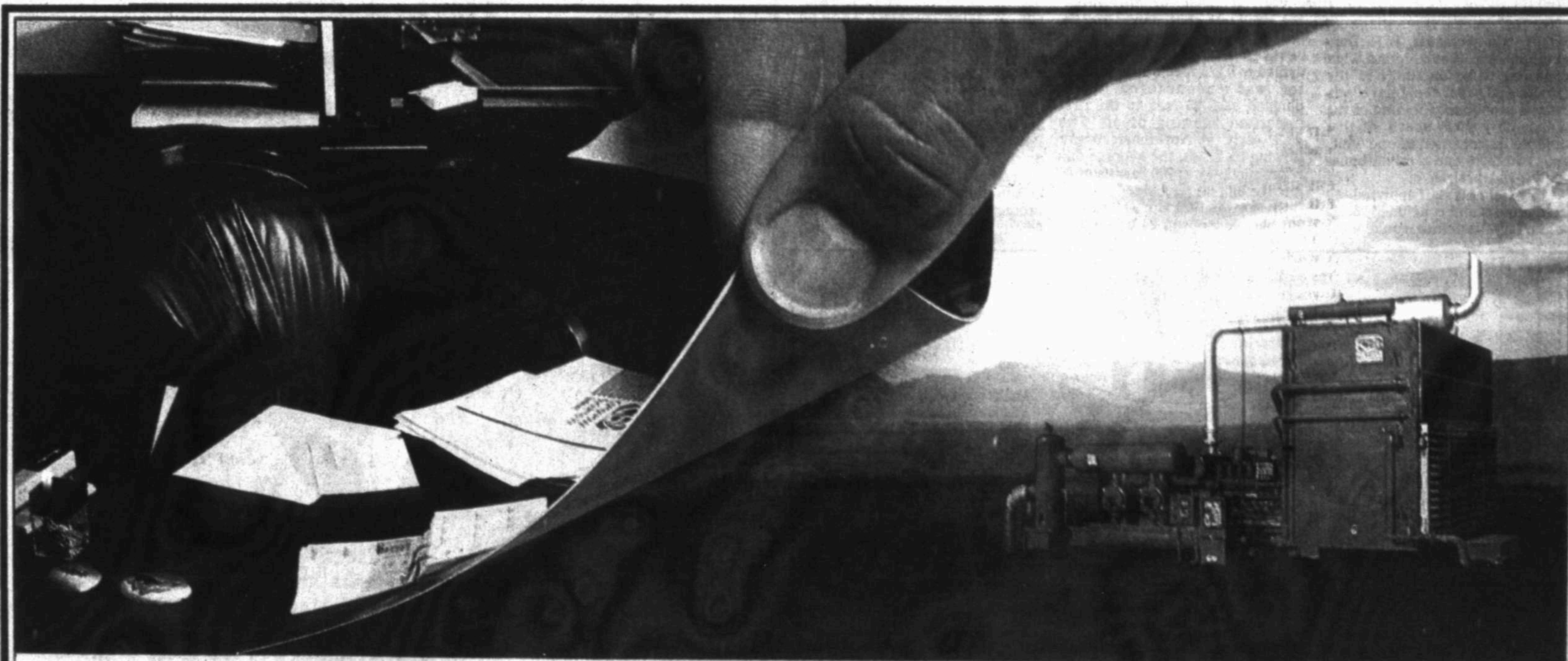
■ U.S. consumption of natural gas in 1992 will increase 1 percent to a total of 19.58 trillion cubic feet. Gas demand rose 3.5 percent last year.

OGJ's demand projections assume a modest yearly gain of 2 percent in U.S. gross domestic product.

Economic performance is one of two key variables in the worldwide market outlook. The other is availability of oil from Iraq, which remains subject to embargo.

With Iraqi exports still negligible and Kuwaiti exports low due to damage from the Persian Gulf War, available worldwide production capacity barely exceeds consumption. And demand is expected to increase later this year.

Spare production capacity thus will disappear, creating pressure for higher crude prices, OGJ said.



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OCT 18 1992

YESTERDAY IN THE BASIN

Hobbs: Foundation for New Mexico's industry

■ The Hobbs field and resulting production established Southeast New Mexico oil industry.

Joe Dominey

The Hobbs field has been called one of the "last great fields" of the Permian Basin. Not only did it add a new dimension to oil and gas in New Mexico, it also opened a large area of the state for settlement.

The first settlement in Lea County was at Monument, now a small community about 15 miles southwest of Hobbs. It was the site of a water hole, the only known springs in the area.

In 1917, Lea County was named in honor of Capt. Joseph C. Lea, a pioneer of the Pecos Valley and the first mayor of Roswell. It was created out of the eastern portions of Chaves and Eddy counties.

The James Isaac Hobbs family moved from central Texas to the present site of Hobbs in covered wagons in 1906. This site became the hub for later community development.

The first showing of oil in southeast New Mexico occurred when the first artesian water wells were drilled in the Pecos Valley during the territorial days. Some commercial development began in 1906 in the Artesia area in what is now Eddy County, but it was 1923 before major discoveries attracted much attention.

In the late 1920s oil exploration began in Lea County by Midwest Oil Co. of Denver, which established a regional office at Roswell.

Midwest's chief geologist, R.C. Coffin, sent crews with magnetometers to survey across the wide open space extending from the Artesia field eastward to the boundary of Lea County. District geologist Ronald K. DeFord and a team of geologists surveyed and mapped a number of selected areas. Kenneth Ferguson surveyed the Guadalupe Mountains near Carlsbad.

THE DISCOVERY: There appeared to be no surface structures to serve as markers of possible underground formations other than the Caprock area near Maljamar where one can see the dramatic rise of the high plains from the Pecos River valley lowlands below. Caliche, sand, and grass covered the surface for endless miles.

In 1927, near the village of Hobbs, two geologists, W.H. Dunning and C.A. Wentz, found what appeared to be an uplift in the granite rocks that could have indicated a pronounced folding of the sedimentary rocks above. At that time Hobbs consisted of one windmill, two trees and a ranch house on the flat prairie.

Coffin and his staff analyzed the field reports and concluded that a subsurface anticline could exist

near Hobbs, capable of storing large quantities of oil within reach of the drill bit.

Midwest president Tom Dines submitted data to his operations committee. The decision was to drill a test site. Coffin selected a site on what is now known to be the southern edge of the reef, not in the most productive part of the field.

The company drilling crew came in from Tucumcari on Sept. 22, 1927. They rigged up the State No. 1 well on the northeast corner of the northeast quarter of Section 9-19-38, just a mile from the town site of Hobbs. The company sent in a construction crew from Casper, Wyo., to build the wooden derrick.

C.G. Scott was drilling superintendent for Midwest. He and his wife Hattie had just arrived at Florence, Colo., in June 1928 for their first vacation from Midwest since 1916, only to find a telegram directing him to New Mexico.

Midwest leased the land from Harry F. Walker of Roswell. A crew of five, using cable tools, spudded the test well on Columbus Day, Oct. 12, 1927. The first two months included such mishaps as caving hole, frozen pipes, a broken belt on the drilling equipment, fishing for tools, and a fire.

The drilling crew built casing racks and set a little Ford pumping unit over the water well. After the rig builders moved out, the crew started to rig up. From October 22 to November 15, they had set the 12½-inch casing at 1,580 feet. Just as they were changing the casing at noon on Nov. 15, the rig caught fire and burned to the ground. They shut down after cleaning up the charred remains, and most of the crew left for home. Later new equipment was brought in from Amarillo.

The company built a steel rig and got started back into the hole sometime in January 1928. On June 13, 1928, oil was shown in the white lime at 4,065 feet.

The cost of drilling was estimated at \$15 to \$20 a foot for a total depth of 4,245 feet.

Despite difficulties, however, this was the best well in the state by October 1928. A seven-day test showed an average of over 500 barrels of high grade oil. Even then, drilling on the well continued. Meanwhile, Midwest built a 55,000 barrel storage tank, completing it on November 1.

With no pipeline or other outlet, the well was shut down for 4½ months. When the company crew reassembled, they carefully drilled to 4,245 feet where salt water was encountered. They plugged back 25 feet, to the first important showing of oil. The well, early in November, began flowing by heads, the average daily production was 700 barrels of 36 gravity oil.

On Nov. 20, 1928, the well flowed 951 barrels of oil in 24 hours. The

Illinois Pipe Line Co. soon made definite arrangements to connect the Midwest well with the Maljamar area northwest of Hobbs.

Midwest No. 1 State was a key producer, proving the presence of commercial oil in an untested area of southeast New Mexico. The well opened one of the most important fields in the Permian Basin.

A second well was drilled squarely on the reef, proving to be an excellent producer. This was Midwest's No. 1 Capps, a north-eastern offset to the discovery, in Section 3-19-38, at 4,220 feet, producing 850 barrels of oil daily.

After No. 1 State and No. 1 Capps, came the Walker Oil Corp.'s No. 1 Terry, about a mile southeast of the initial well in Section 10-19-38. The Walker well made 525 barrels of 25.8 gravity oil and 4-million cubic feet of gas during the first 24 hours, from a depth of 4,184 feet.

These initial wells were immediately north of the Scarborough field in Winkler County, indicating a further northern trend. Consequently, large blocks of land were leased as protection, between \$15-million and \$18-million, mostly by major companies.

DEVELOPMENT: By mid-July 1928 a total of 20 wildcats had been scheduled for drilling in Lea County — stepping stones to the fields of central and northern Lea County.

The Rhodes, Eaves, and Sholes wells in the southeastern corner of Lea County, south of Jal, attracted more leasing and exploration. By July 1928 about 20 tests were being put down.

The influx of oil people created a communications problem. Only one business phone was available in town, and long lines formed, with a half-day wait common after oil was discovered.

Midwest's land department adopted a conservative \$4 per acre ceiling on leases, while other companies were willing to pay more. Consequently, Midwest failed to gain strategic positions in the field it had discovered. Among the companies that acquired valuable acreage were Amerada, Empire, Humble, Ohio, Prairie, Shell, Sun, Superior, Texas Production, and Vacuum.

Development of the Hobbs field remained relatively dormant during 1929 because market demand was being adequately met by production in Reagan, Howard, Pecos and Winkler counties. Also, no transportation facilities were available to serve the Hobbs field.

BOWERS NO. 1: The needed stimulus to attract railroad and pipeline facilities occurred in January 1930 when Humble's No. 1 Bowers, a major well by all standards, came in. Humble had acquired a few scattered leases around the Hobbs field, chiefly for protection in the event oil might be found nearby. Humble waited



Downtown Hobbs during the boom days of the 1930s developed from a ranch house to boom town. New Mexico oil industry started there.

almost until its most important lease, on the Bowers land, was about to expire before it began drilling.

It was spudded on June 10, 1929, with a rotary rig. In Late August an oil and gas pocket was found between 3,243 and 3,249 feet, flowing 20-30 barrels of oil per hour and 4-6-million cubic feet of gas daily. At 4,106 feet the drill entered the white lime, the main producing horizon of the field. As the drill stem was being drawn from the well, it blew in with a roar at the rate of 400 barrels of oil hourly, plus a heavy gas flow.

It was gauged at 462 barrels an hour, making it the largest producer in New Mexico to that time. Humble's No. 1 Bowers extended production northwest more than three miles, thus indicating a field of large dimensions.

Humble soon extended a pipeline northward from Jal. The line passed through the heart of the Hobbs area and stimulated the immediate development of the Hobbs province. With the pipeline, the race was on, and by the end of April 1930, 31 wells were

being drilled in the area.

By early May 1930, the Bowers well was connected to Humble's pipeline and a voluminous flow of oil was transported to Humble's refining complex on the Gulf Coast.

Shell Oil Co.'s No. 1-A State, in Section 32-18-38, about a mile south of the Bowers well, produced 2 million cubic feet of gas and 270 barrels of oil in the first 17 hours.

Ohio Oil Co.'s No. 1 Northrup developed a showing of 2 million cubic feet of gas daily, and some oil.

THE RAILROAD: At that time the nearest railroad was over 50 miles away. To the southwest was Carlsbad, from which supplies were hauled. The Pecos Valley and Northeastern Railroad, a branch line of the Santa Fe, operated one train a day each way between Carlsbad and Clovis. This line was operating when drilling began. Another train, "Alkali Pete," on the same branch, crept to Pecos City, Texas, some 80 miles to the southeast of Carlsbad, each morning except Sunday. With

luck it returned in the afternoon.

On April 19, 1930, the first train on the newly laid tracks of the Texas-New Mexico Railway clanked into Hobbs. New Mexico Gov. Richard Dillon was at the throttle. The train, made up of passenger and baggage cars, carried a load of mail and state officials as guests of the railroad's executives who came up for the event.

The Texas-New Mexico Railway ran a line from Monahans northward through Wink, Kermit, Jal, Eunice, to Hobbs. This was crucial in bringing supplies and workers to the Hobbs field. Some crude oil was shipped in tank cars over the line.

CITY OF HOBBS: Overnight the town sprang up. The people came in Model T's, airplanes, trucks, and buses. Where six months before only prairie had met the eye, a noisy town of raw lumber buildings, shacks and tents shot up. Lot prices on Carlsbad Street soared. Consequently, the land which formed the frontage

Please see HOBBS/23AA

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Railroads play vital role in basin's development

By Ellen Hopkins

Lyrics to the song about the Atchison, Topeka and Santa Fe Railroad don't mention anything about Midland or the Permian Basin, but this railroad and many others had a tremendous impact on the oil industry and on the history of the region surrounding Midland.

The Santa Rita No.1 was drilled within feet of the Pacific & Orient Railroad near Big Lake, because that's where the rig had to be unloaded and a hole started in order to validate the lease. From that eventful moment, the railroad continued to play a role in the development of the basin.

Odessa was named by Russian railroad workers who named the stop for their hometown in Russia, because the terrain looked so similar.

Besides its humble beginnings as a railway stop, Midland's future in the oil industry can be traced to specific railroads. Many of these railroads are still visible in Midland, but their form has changed dramatically.

Railroads came to West Texas because they were solicited by the state and because of the prospect of profit. In 1854, land grants from the Texas Legislature were given to encourage railroad construction. For every section of land the railroads received, the state school fund received the adjoining section. The railroads set about surveying the land and building a vast transportation network.

The land grants continued until 1882. Over 32 million acres were appropriated (nearly one-fifth the total area of the state) and approximately 84 percent of these acres were in West Texas. The railroads soon brought lumber, merchandise, food and ranch supplies to West Texas.

The Texas Pacific Oil Co.'s birthplace was Thurber, where every inch of ground and every building was 100 percent owned by Texas and Pacific Coal Company. Although the T&P Coal Co.'s sole purpose was to mine coal, oil traces were discovered in the mining process in 1912. Test wells were soon drilled. The farmers

near neighboring Ranger were caught up in a drought and willingly became rig hands. The town's population by 1918 swelled from 1,000 to 6,000.

The railroad with the most visible impact on Midland was the Texas and Pacific Railroad. The "T&P's" initial purpose in West Texas was to survey land on a westward route where it intended to connect with the Southern Pacific railroad tracks in El Paso. Midland (then called Midway) was chosen as a "jerkwater" stop for the steam engine locomotives.

The T&P not only provided transportation and population to West Texas, but aided in the exploration of oil. The Permian Basin's first big oil producer was the T&P Abrahms No. 1 drilled on railroad acreage originally deeded to the Texas and Pacific Railroad from the state. The well was named after W.H. Abrahms, an agent for the railroad's land trust through which many acres were sold to individuals, thus helping the railroad raise cash.

By the early 1900s, railroads

were transporting West Texas crude to the rest of the country. Another example of the Texas and Pacific Railroad's value to the West Texas oil industry is the T&P's Wickett station. From this railway stop alone, in 1930, over 31,000 cars of crude oil were hauled to market.

The Pecos Valley Railway connected Pecos with Artesia, N.M. Its initial purpose was to transport products to and from an agricultural empire planned for the area surrounding Carlsbad, N.M. After floods and other crises dissolved the project, the line was eventually bought by Santa Fe.

Much has changed over the years including the names, forms and parent companies of nearly every railroad in the Permian Basin. Many of these railroads are now known only as oil companies; some still retain a relationship with the parent company as subsidiaries.

Trustees of the Texas Pacific Land Trust set up the TXL Corp. in 1954 and deeded all mineral rights and operation of the lands.

In 1962 TXL merged with Texaco.

Texas Pacific Coal and Oil was bought by in 1962 Sun Oil Co., which also purchased Texas and Pacific Oil and Gas in 1981. The company is now known as Oryx.

The Atchison, Topeka and Santa Fe Railroad evolved through the years, diversifying in oil and later and became known as Santa Fe Pacific, the former parent company of Santa Fe Energy Resources Corp. earlier this year. The evolution included such companies as Andover Oil Co., Chanslor-Western, Coline Gasoline Corp., Oil Development Co. of Texas, Westates Petroleum Company, and others.

The Burlington Northern Railroad merged with El Paso Natural Gas in 1983 and is now known as Meridian Oil Inc. Burlington bought Southland Royalty Co. in 1986. It had previously purchased Aztec Oil, Malka Production Co. and Austin Drilling Co. in 1978, and Texcan Resources Corp. in 1982.

Champlin Oil and Refining Co. merged with Celanese Corp. of

America in 1964, the same year Champlin Oil and Royalty became Champlin Petroleum Co., which Celanese sold to Union Pacific Resources Co. (of Union Pacific Railroad fame) in 1970. Champlin Petroleum Co. had previously purchased Chicago Rock Island and Pacific Railroad Co., another railroad but unrelated to Texas and Pacific Railroad.

Tracing the history of just about any oil company or railroad over the last 30 years creates an amazingly confused network of overlapping pipelines and tracks. The number of mergers, buy-outs and name changes make the history of these companies resemble that of banks and savings and loans.

The fact remains that railroads originally intended to make money in West Texas. They are in large part responsible for establishing the area's towns, moving people in and transporting oil to the rest of the country.

Myres writes history of Permian Basin

Staff report

In 1969, Samuel D. Myres, editor of the Texas Western Press at El Paso, was cleaning his office before retiring, when George T. Abell sent word that he had "something in mind that might interest you."

The "something" was an exhaustive history of the Permian Basin

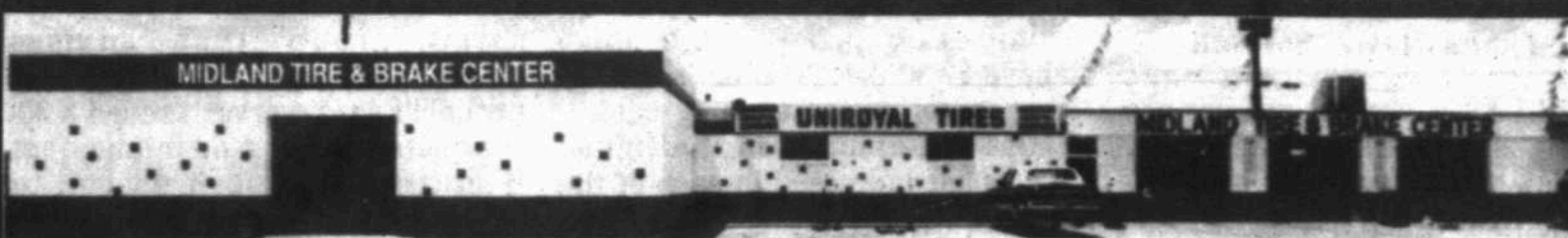
petroleum industry.

Abell offered to underwrite all expenses and to place at Myres' disposal his own extensive collection of rare manuscripts and photographs.

Myres was 70, and in poor health. He knew nothing of the oil business. But the prospect of putting together such a history intrigued him. He agreed to do a

preliminary survey of the area, prepare an outline of topics to be covered, determine the number of volumes it would take to do the job, and determine the cost to the Abell-Hanger Foundation.

The result of that investigation was the two-volume work Permian Basin, which is now considered the official bible of the area's history.



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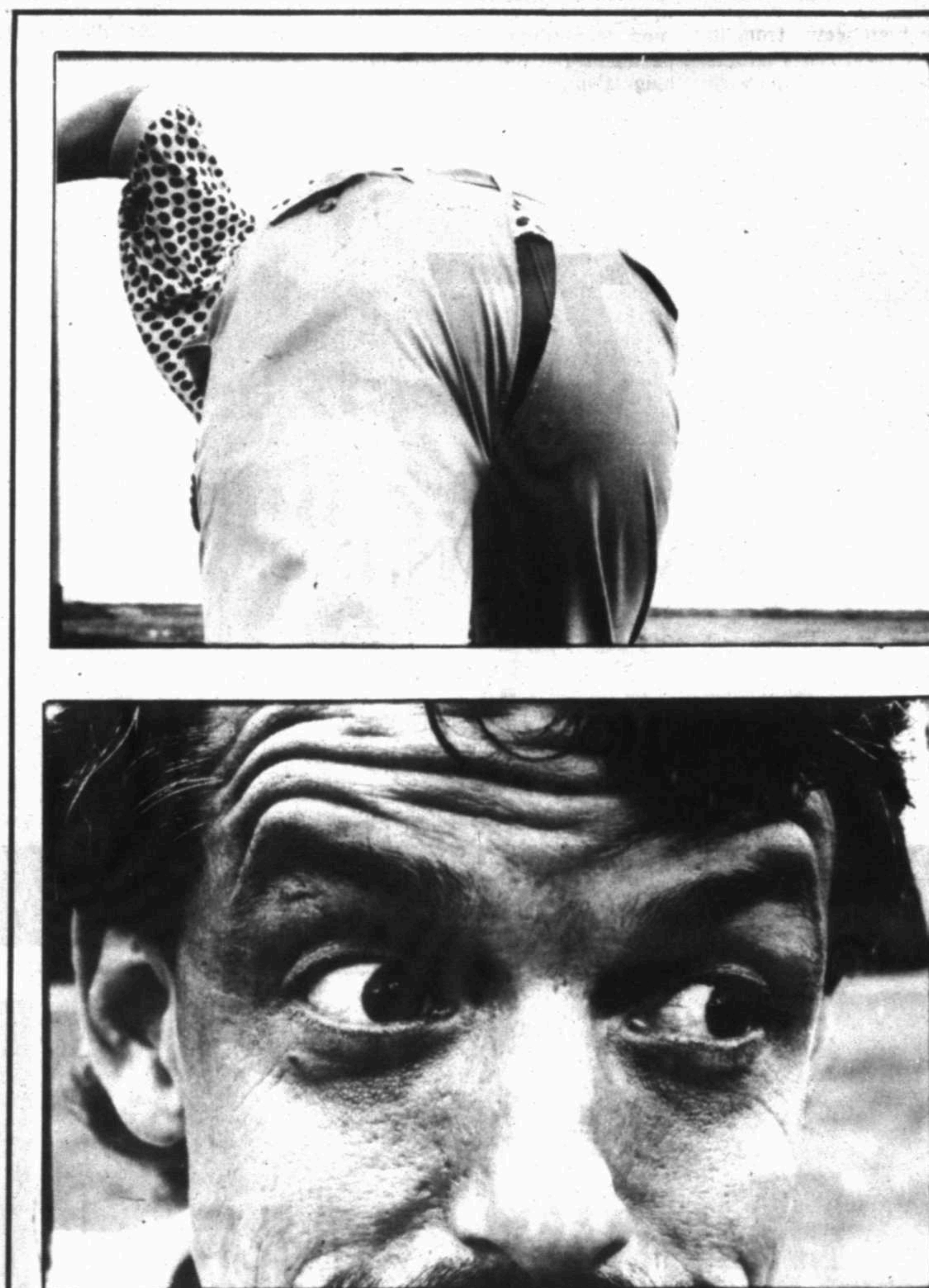
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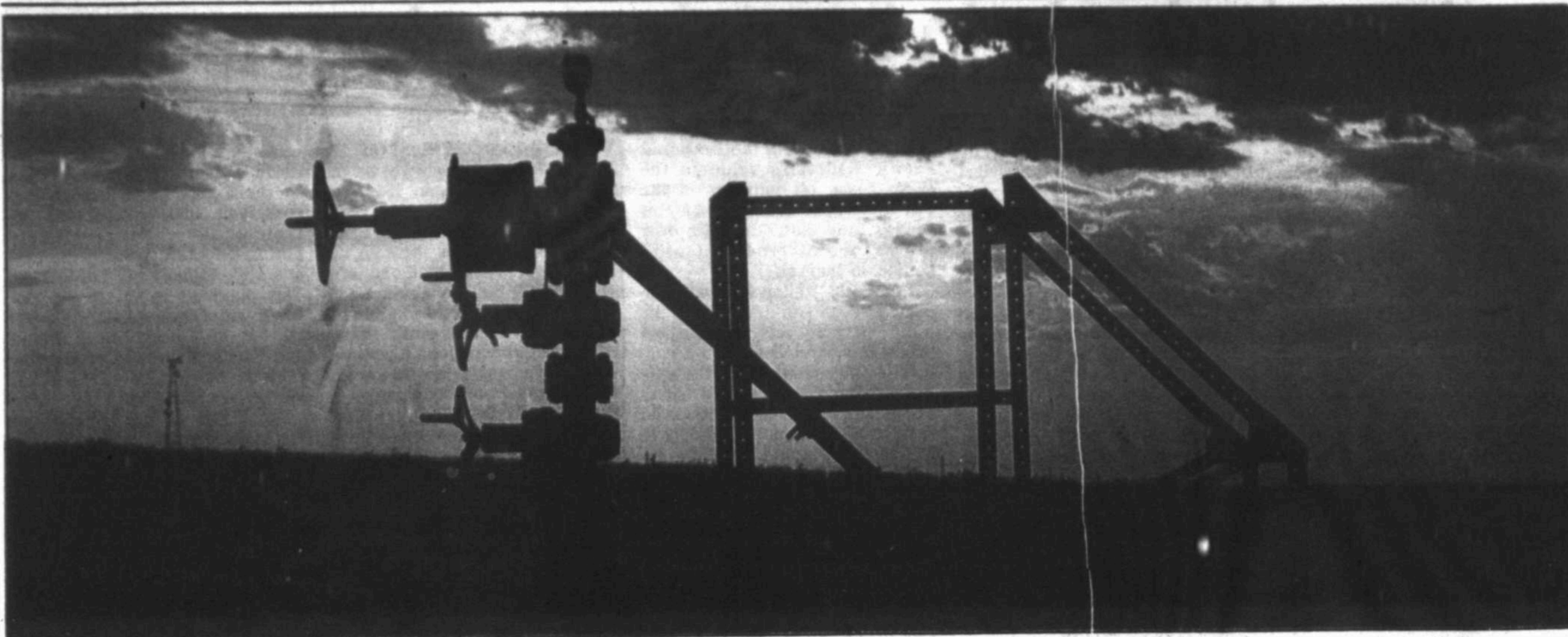


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Natural gas dawning

A natural gas wellhead is silhouetted against a dawning New Mexico sky. Many in the industry believe that signs now developing in the natural gas industry indicate that supply and demand are finally becoming more balanced. Ten years of not drilling for natural gas is finally having an impact on prices.

File photo

Markets favor gas producers, analysts say

N.Y. Times News Service

DALLAS — For natural gas producers in the United States, the last few years have been a famine of biblical proportions. Prices have been so low that hundreds of companies have been driven out of business and thousands of workers have lost their jobs.

Now, suddenly, gas prices are at a post-1985 high. They were jolted upward most recently when Hurricane Andrew tore through the Gulf of Mexico, knocking out about 5 percent of the nation's gas output for several weeks.

But the hurricane was only the latest of several events that have caused spot prices for natural gas to double in only six months. What is more, gas producers now believe that the confluence of a number of long-term trends will keep prices comfortably above the low-water marks of recent years.

"We are getting back very close to a balance in supply and demand in natural gas," said Kenneth L. Lay, chairman and chief executive of the Enron Corp., operator of the nation's biggest pipeline and a large independent gas producer.

Analysts say the markets are favoring producers because of a combination of factors that have been either limiting supplies or increasing demand.

R. Gamble Baldwin, managing partner of Natural Gas Partners, an investment firm in Greenwich,

Conn., said prices could spike above \$2.50 per 1,000 cubic feet if the winter is particularly cold.

Gas consumption in the United States has increased in each of the last five years, partly because industrial users and utilities found gas cheaper to burn than fuel oil. By most accounts, gas use will reach 20 trillion cubic feet this year, the highest since 1979.

Some forecasts put the annual total at 23 trillion by the end of the decade, with most of the increase coming from new gas-fired electric power plants. Between 1978 and 1988, Congress banned gas as a fuel source for new industrial plants and new electrical power plants because of fears of shortages. Gas plants are cheaper to build and operate than coal or oil-fired plants and they pollute less.

While production has risen enough to permit the use of gas in power plants, drillers have not been finding enough new gas fields for reserves to keep pace with rising production.

In 1991 additions to reserves amounted to just 70 percent of production. With drilling activity at a 50-year low and with output rising, reserve replacements will certainly be even lower this year.

Existing total proven gas reserves amount to an eight-year supply at current consumption rates, according to the Energy Department. But the National Petroleum Council, an industry-spon-

sored group that advises government energy officials, says probable gas reserves exceed a 50-year supply, and it maintains that if prices remain high enough to finance drilling and production, the level of reserves could quickly be increased.

Rising crude oil prices this year have helped to bolster gas prices. Many manufacturers and utilities can burn either gas or No. 6 fuel oil, whichever is cheaper. With the price of light domestic crude oil hovering near \$22 a barrel, gas has had a clear price advantage over fuel oil until it soared past \$2 per 1,000 cubic feet in late August.

After falling in some areas below \$1 per 1,000 cubic feet — the lowest winter price in 15 years — last February, when the weather was unusually warm, gas prices have marched steadily upward.

"The gas situation has finally bottomed out and is turning around," said George P. Mitchell, chairman and chief executive of the Mitchell Energy and Development Corp.

The rise can be attributed in varying degrees to a cool spring, which caused demand for gas for heating to stay high; hot summer temperatures in the Southeast, where gas-powered electricity typically runs the air-conditioners; voluntary drilling cutbacks by some producers who were disgusted by low winter prices; new rules in Texas and Oklahoma that

squeezed some output, and the June report that the nation's drilling activity had fallen to the lowest level in 50 years, with only 596 rigs exploring for oil and gas.

The peak was 4,530 rigs at the end of 1981, and last year the average number of rigs was 861.

The spot contract for natural gas deliveries in October settled on Friday on the New York Mercantile Exchange at \$2.328 per 1,000 cubic feet, up 18 cents for the week. It was the first time gas prices crossed the \$2.20 level in the month of September since 1985. Prices then were heading down, however, a prelude to bankruptcies and job cutbacks.

For now, analysts say the long slump in gas prices is over. "We've been waiting five years for this," said Ronald J. Barone, a managing director at Kidder, Peabody & Co., who follows the gas industry.

The common stocks of some domestic gas producers, including Anadarko Petroleum, Enron Oil and Gas and Noble Affiliates, have risen by more than 40 percent this year.

A group of seven domestic gas producers that Barone follows is up 30.9 percent so far in 1992 and the pipeline sector has gained 19.4 percent, compared with a gain of

seven-tenths of 1 percent for the Standard & Poor's 500-stock index.

"I don't think gas prices will go up much further from here, but I don't think they will plunge either," Barone said.

Rising prices have stirred a modest revival in drilling. "We have picked up our speed a little bit," said F. Don Covey, president of exploration and production at Mitchell Energy and Development, whose headquarters are in The Woodlands.

The rig count is up nearly 100 since June, and drilling service companies like the Western Co. of North America, which completed a bankruptcy reorganization in 1989, are experiencing solid increases in orders.

"It is a direct reflection of much stronger natural gas prices," said George Hogarty, director of investor relations for Western, based in Houston. The company lost nearly \$2 million in the second quarter, "but clearly we'll do better than that" in the current quarter, he added.

John J. Murphy, chairman and chief executive of Dresser Industries, the big Dallas-based oilfield service company, said many of his customers, which include leading natural gas producers, are plan-

ning to expand drilling programs but have not acted yet.

Most producers will not be convinced that gas prices have moved into a higher range until next February or March, the beginning of the period of slackest demand.

"If the gas price remains strong in the early spring, that will be a catalyst to draw more capital into the industry," said Tom Robinson, head of North American natural gas research at Cambridge Energy Research Associates, a consulting firm in Cambridge, Mass.

Meanwhile, few producers or analysts believe that long-term gas prices will burst through the level that would set off a sharp increase in drilling and exploration, a point between \$2.50 and \$3.

"There will be more activity, but it will not be a surge," said Murphy of Dresser. He said the total number of drilling rigs was not likely to increase much next year because federal laws that subsidized the drilling of shallow coal-gas wells expire in December and many of those rigs will be idled.

Despite the jump in spot gas prices, consumers probably do not need to fear big increases in their fuel bills. Many gas utilities hedge against abrupt price changes with a blend of contracts ranging from two years to 10 years or more.

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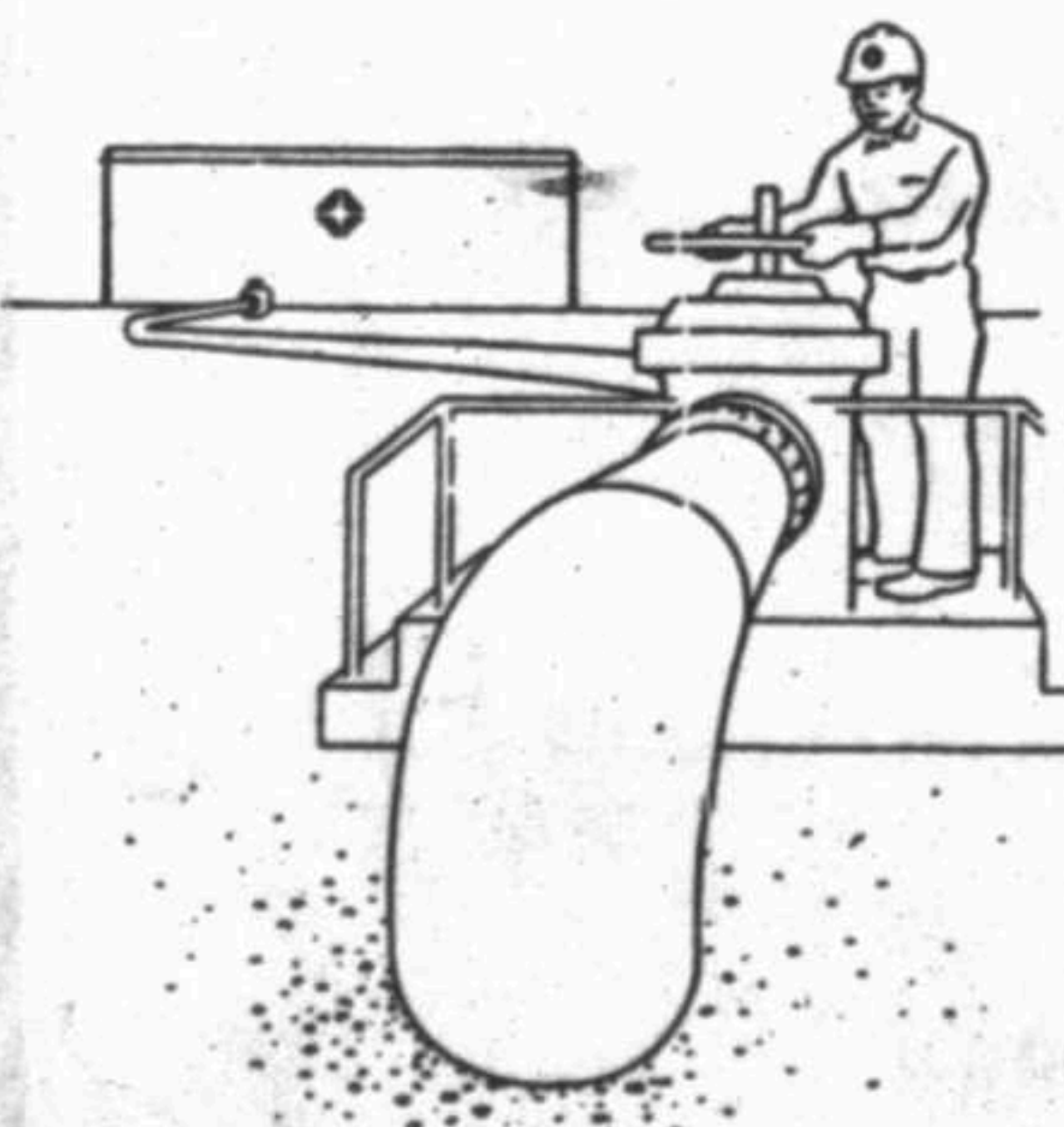
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Aramco head affirms Saudi position

By John Paul Pitts
Business/Oil editor

If the world's top producer has its way, oil prices will remain stable and in the low to mid-20s for the next decade.

Much mention is made about OPEC in relationship to world oil prices, but in reality the price of energy worldwide depends on a single country — Saudi Arabia.

Within that cartel of oil producers, only Saudi Arabia has the production capacity to make prices soar or crash. Saudi Arabian goals are clearly what drives energy prices.

In the late 1970s and early '80s, the goal was to let oil prices seek their highest level, and before they crashed in 1982 they were headed toward \$50 a barrel.

Prices declined until 1986, because of surplus producing capacity. That was when Saudi Arabia eliminated excess productive capacity by taking oil prices to a single digit.

Now, the oil-rich nation has decided on a policy of stable and moderate prices in the low 20s. That policy still prevails and is the long-term policy of Saudi Arabia, according to Ali I. Naimi, president of Saudi Aramco, the national oil company of Saudi Arabia which controls 25 percent of the world's oil.

In July, the Permian Basin Oil Report was fortunate to have a one-on-one interview with Naimi, who was in Midland to visit friends. "We are determined to do what it takes to insure that Saudi Arabia is a contender in the world oil market for years to come," said Naimi, who offered an inside view of the workings and policies of the world's largest oil company.

"Our perception of our role is very clear — to provide the world an abundant, secure, source of energy at a fair price. In this global economy, crude oil must compete with coal, nuclear, natural gas and other fuels. If it cannot, other fuels will step in to take its place. I would hope the days of threats and boycotts are behind us," said Naimi, who speaks with fervor of the free-market approach to world energy.

"We believe in free markets. The kingdom policy is one of moderation. As producers we want a fair income from our product in exchange for providing an abundant and secure supply of oil."

He emphasized that Saudi Arabia did not want oil prices to contribute to the inflationary picture over the next decade and that the real price of oil would probably see no growth for the decade.

When Kuwait and Iraq oil come back into the market, he said Saudi Arabia would make whatever adjustment was necessary to maintain moderate oil prices.

For the rest of the decade and beyond, he predicts increasing demand of 1.5 percent a year, adequate supplies and moderate prices.

Naimi is not shy when talking about the oil reserves of Saudi Arabia. He is proud of it, and keeps using the word "blessed" when referring to his country's share of crude oil.

"We are no different from Exxon, Mobil or any other large oil company. The one thing that we are blessed with that makes it easier is high reserves and prolific wells that average 15,000 barrels daily."

He explained that some wells produce as high as 85,000 barrels a day, while the lowest producers make only 2,500 barrels daily.

He added that the kingdom of Saudi Arabia has about 60 oil fields with 250 reservoirs, but is producing from only 12-15 of the fields.

"Our decline curve keeps changing, because we keep adding to production, by bringing on new fields. But I would say that we will not begin to see a decline curve for our reserves, until the year 2035 or 2050."

He is especially proud of the role Saudi Aramco played during Desert Storm, when the oil company was called upon not only to fuel the entire war effort, but to compensate for the lack of Kuwait and Iraq oil in the market.

"In a span of four months in 1990, we brought our production up from 5 million barrels a day to 8.5 million barrels. To do this we had to take approximately 1,000 shut-in wells out of mothballs and put them on stream," he said.

He gives the credit for the effort to the international staff of Aramco and their dedication. "They were willing to do whatever it took to get the job done," he said.

Had it not been for the haste in which Saudi Aramco increased its production by 3.5 million barrels, there could have been gasoline

lines in this country and the price of gasoline could have soared. As it was, prices flared only briefly in 1990 before stabilizing again under \$30.

Naimi noted that the war pointed out the wisdom of having someone like Saudi Arabia, that could maintain a production cushion and plug the supply gap. He said that in exchange for its willingness to maintain such a cushion, Saudi crude oil should receive fair treatment from consuming nations.

The memory of Saudi Arabia using its giant oil reserves for political posturing and creating gasoline lines in this country still lingers, but from the tone and comments of Naimi one gets the impression that those days are past and Saudi Arabia has chosen a new role for itself.

Naimi has a degree in geology from Lehigh University and a masters' in hydrology and economic geology from Stanford University.

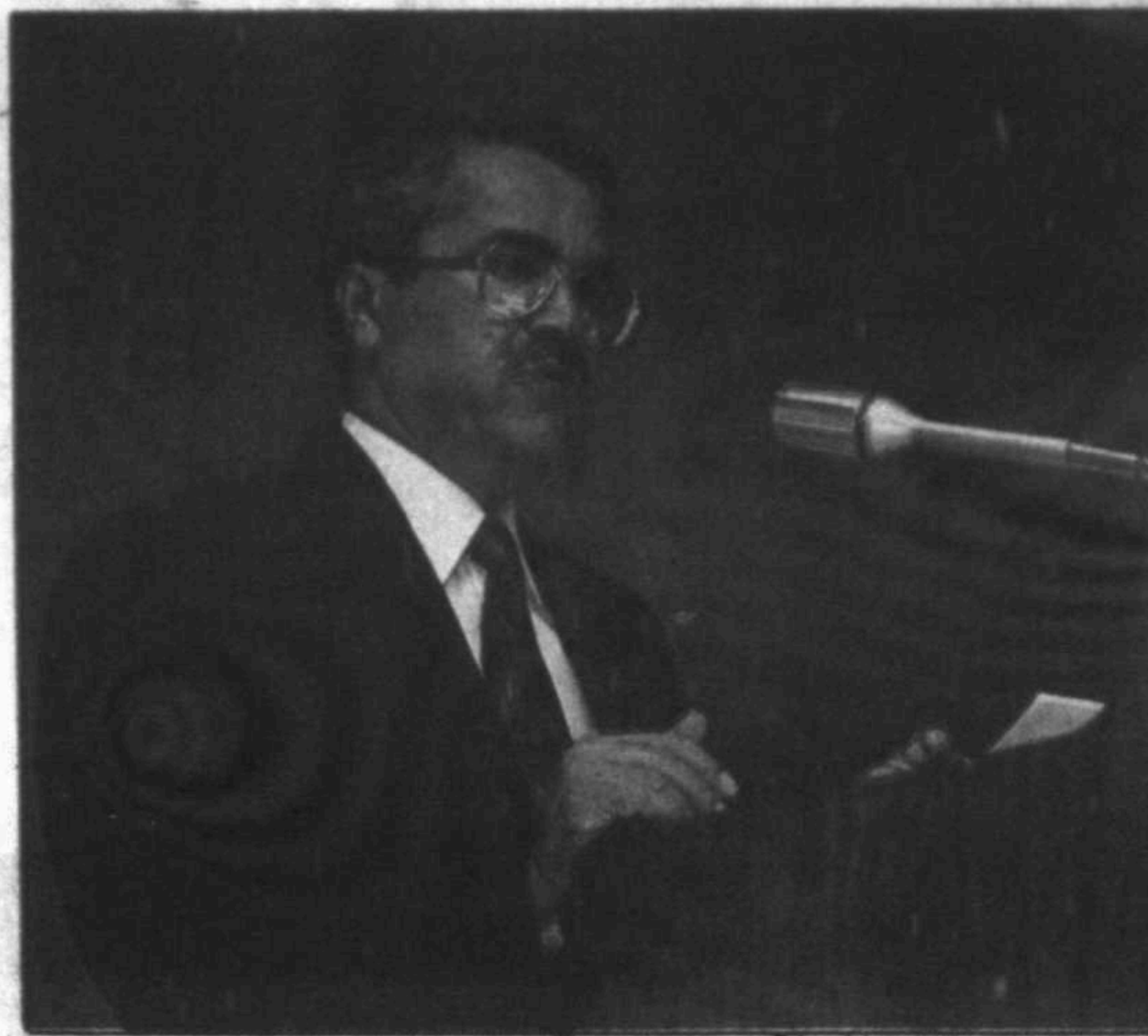
His U.S. associations have made him acutely aware of the concerns of the independent oilmen

who remember the devastation of 1986, when the Saudis took oil prices below \$10.

"It is not our policy to put any other producer in the world out of business. Predatory pricing is a good way to go out of business. We do not want to destroy the industry with predatory pricing. We have a common interest with other producers: We want oil and gas to be a commodity for as long as possible."

He said he did not have any concerns about U.S. efforts to clean up its air with natural gas. "Everyone is for a clean environment. We have no argument with the objectives of using natural gas to clean-up the air. Natural gas is a hydrocarbon, we sell hydrocarbons and that includes liquefied natural gas. We encourage the use of all hydrocarbons."

He said Saudi Arabia had not flared its natural gas, which is primarily associated with oil and gas production, since 1981, when it went to considerable expense to gather and compress natural gas. "We use methane and ethane to fuel our desalinization plants and



Ali A. Naimi, president of Saudi Aramco

we sell the rest," he said.

Naimi said Saudi Aramco was environmentally sensitive and tried to operate in an environmentally prudent manner. He said that

in addition to increasing oil production by 3.5 million barrels, his company had to clean up 1 million barrels out of the Persian Gulf at a cost of \$13 billion.



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Overseas oil fields boost state's energy-related firms

By Eduardo Montes
Associated Press writer

ALICE — In the early 1980s, this small South Texas town was riding an oil boom that was carrying the entire state to new economic heights.

Then came the economic slump that drove it to new lows.

But relief could be on the way from an unlikely source, the United States' now-thawed Cold War enemy, Russia.

The companies that counted on once-thriving oil fields in west and south Texas have been turning their eyes to the former Soviet Union as an alternative to the slumping domestic industry.

For the last eight months, several Texas companies, from rig builders to drillers, have begun to make inroads to the fertile oil fields of Russia and Azerbaijan.

"The potential is very, very wide," said Larry Goldstein, an analyst with Petroleum Industries Research Associates in New York. "They are rich from a natural resources perspective."

These new markets are giving Texas' ailing industry a chance to catch hold of what could be another boom — albeit a foreign one. It could mean good news for communities like Alice and other oil and gas service towns still hurting from the oil slump.

The industry has lost about 400,000 jobs since 1986. Domestic exploration drilling hit several record lows this year. Oil and natural gas prices remain weak.

For Alice, it has translated into high unemployment. The city makes up about half the population of Jim Wells County, which went from a low of 3.9 percent unemployment in the boom year 1981 to a high of 17.5 percent when the slump really hit in 1986. This year, unemployment has been running at an average of 12 percent.

The city also has experienced drops in revenue and property values and many companies that once thrived in this town have disappeared.

"There has not been a development or resurgence... which has served to mitigate the impact that the oil-related service industry has had," said Jim Mayo, chairman of the Alice National Bank's board of directors.

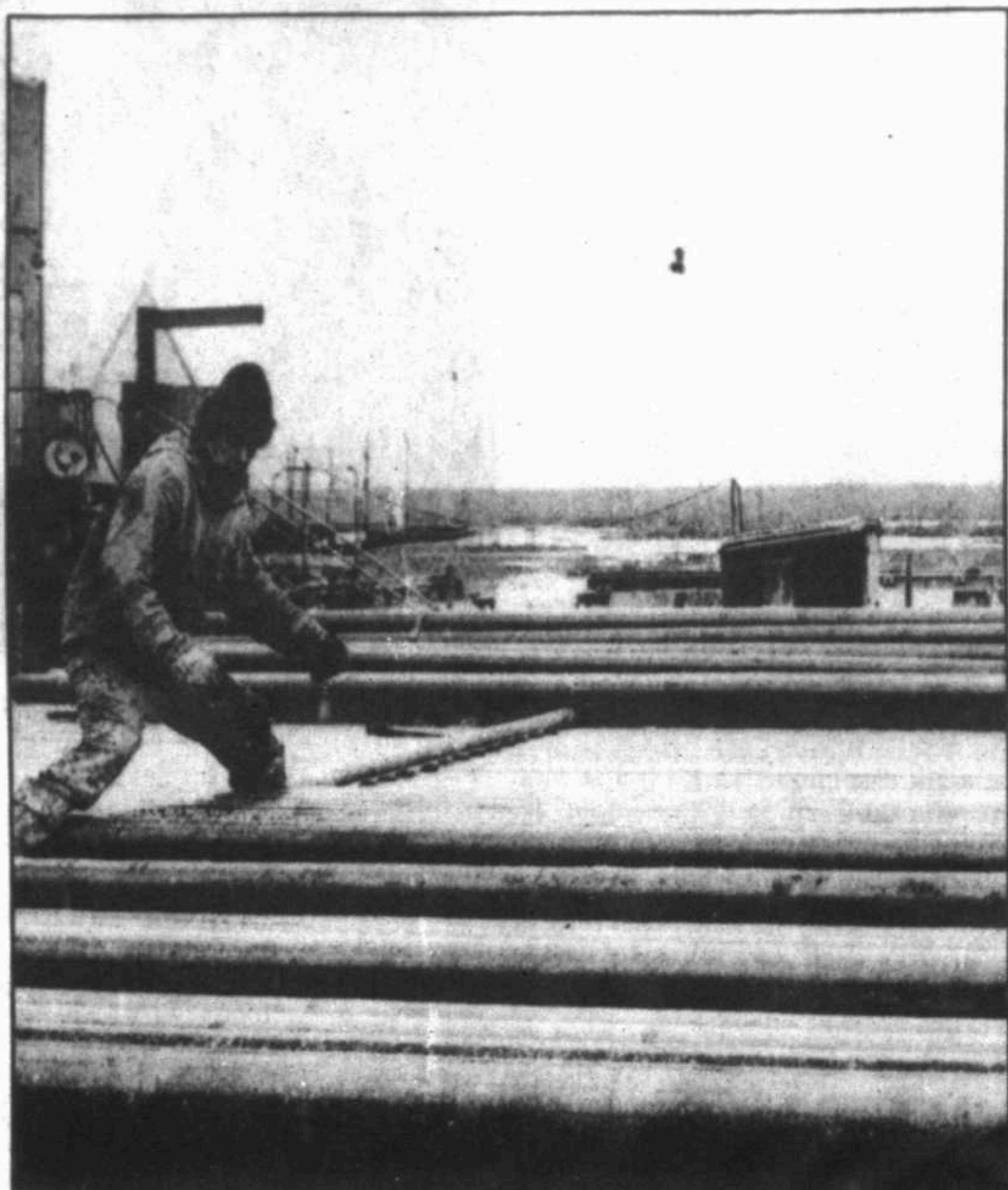
The development of overseas markets won't change that, but it will help.

Alice-based Ponder Industries Inc. began work in Azerbaijan on a drilling and pumping project in May.

They have 10 people working there now and are waiting for new equipment to begin further drilling projects.

"It's not only that our producers are being pushed out the door (in the United States)," said analyst Bill Johnson. "But they're being welcomed elsewhere as well. Other doors are opening."

Russia has been particularly eager to prop those doors open. A



AP Laserphoto

Russian oil fields, such as this one in Western Siberia, are increasingly attracting the interest of Texas oil companies.

recent article in the Oil and Gas Journal, a trade magazine, put the investment potential for foreign firms in Russia at \$60 billion to \$70 billion.

But the country lacks the technology it needs to take full advantage of its tremendous reserves. Goldstein and others estimate that as many as 20,000 Russian wells are idle.

Texasans have found a niche supplying the missing technology.

"Russia has opened up an enormous market for what we do," said Kevin Stanley, spokesman for Ventech Engineers Inc., which makes and relocates refining units.

"They pull oil out of the ground and put it in a pipeline and send it hundreds of miles," Stanley said. "They don't have any refineries (along the way) to produce the fuel."

Earlier this summer, Pasadena-based Ventech negotiated a contract to build a 6,000-barrel-a-day refining unit to be located in the Tyumen region in western Siberia.

The company is pursuing other contracts.

But there have been some cautionary notes.

Parker Technologies Inc., based in the Midland-Odessa area, manufactured three heated rigs for White Night Joint Enterprises in the city of Varjagannettejaz in Siberia.

They're idle and Parker has pulled out all but one employee now because White Night didn't have the production to justify the cost of the American-built rigs.

"Our rigs are stacked over there right now waiting for someone to pick them up," said operations manager Joe Brown. "Our experience was real good at first and it's kind of on hold right now."

Houston's Energy Ventures began selling parts in Russian markets last year, but the company is holding back on other projects, said Vice President Tom Prosser.

"We've been looking at the possibility of manufacturing in Russia and the CIS (Commonwealth of Independent States)," said Prosser. "We're watching the climate. The demand's there for sure, the question is how do you get paid for the services that you render?"

As Goldstein pointed out, the region is both politically and economically unstable.

Domestic companies are looking at good payoffs if they can overcome those problems.

The downside is the United States risks becoming even more dependent on foreign oil.

"There is a small positive that you have at least some potential for repatriation of earnings," said Goldstein. But he added: "A foreign barrel, even in the hands of an American company, doesn't have the same impact."

Unless the United States opens up new areas to exploration, there aren't many alternatives, analysts say.

In fact, Alice-based EnergyDynamics, which produces spare parts for pipeline compressors, is looking not toward the former Soviet Union, but to Venezuela to boost its profits.

Mobil-Exxon Russian venture may be sign of things to come

N.Y. Times News Service

DALLAS — As the development of Russian oil fields picks up speed, the industry may see more joint ventures, as the recent deal between Mobil and Exxon, perhaps even a Russian version of Aramco.

In September the nation's two biggest oil companies, Exxon Corp. and Mobil Corp., joined forces to bid on oil-and-gas exploration and production projects in one of Russia's largest oil fields, the West Siberian basin.

The partnership is rare among major oil companies that mostly go their own way on ventures. It revives an alliance of two companies whose biggest undertaking, along with Chevron and Texaco, was developing oil fields in Saudi Arabia under the Aramco banner. The giant Middle East operation was purchased by the Saudis between 1972 and 1980.

The companies have not detailed the size of their commitments to the project, which they said covers 86 million acres in western Siberia with daily output of three million barrels of oil, about half the production of the large western Siberian fields.

The two companies so far have had little success bargaining on their own in Russia. Chevron, Conoco and Marathon signed deals in other regions earlier this year and Texaco is bargaining for production rights near the Arctic Circle.

By combining expertise in finance, pipelines, seismic analysis and drilling technology, Exxon and Mobil hope to persuade Russian negotiators to grant them concessions in what many geologists consider to be potentially huge, undiscovered reserves in western Siberia.

Some geologists believe the oil fields are among the world's largest and that Russia's reserves will eventually prove larger than Saudi Arabia's 256 billion barrels. Russia's proven reserves last year were 57 billion barrels.

Few Western oil companies are producing oil in Russia, an indication of daunting uncertainties that remain on taxes, royalties and other aspects of government concessions, analysts said. Political unrest has also deepened as the economy has slid further into depression, presenting even larger risks for Western oil companies.

A Mobil executive, who insisted on not being identified, acknowledged that working with Exxon reduced concerns of potential losses, but she said that there were benefits, also. "We feel that between us, we have a lot to offer Russia," she said.

One of the first partnerships in the West, between Salomon's Phibro Energy Inc. and Anglo-Suisse Inc., called White Nights, scaled back its output in the same western Siberia region last spring after the Russian Parliament increased taxes on exported oil. White Nights continues to produce and hopes to resume exports soon at a reduced tax rate, the company said recently.

Chevron Corp., the nation's third-largest oil company, told Wall Street analysts that it had been unable to produce oil in Kazakhstan because of delays in building new pipelines, which must cross the borders of several former Soviet republics.

Chevron signed a deal in May to develop the Tengiz oilfield in Kazakhstan, with an estimated 6 billion to 9 billion barrels of recoverable crude.

Independents get majors' leftovers

NEW YORK (AP) — Big oil companies, deciding that their next big discoveries lie overseas, are holding a yard sale for tired old U.S. wells that have become too expensive for them to operate.

The buyers are smaller producers, who are profitably scrounging the dregs in what has emerged as a growth industry in America's oil patch.

"The independent is the next fish down on the feeding chain," said Jim Hawkins, chairman of Hawkins Oil & Gas Co. in Tulsa, Okla. "This is a golden age for the independent operator."

In many cases, independent producers can pull oil from the ground more cheaply and generate a profit from wells drained of much of the easy-to-reach crude.

In perhaps the largest transfer this year, Chevron Corp. earlier this month agreed to sell a tenth of its U.S. oil and gas production to Pennzoil Co., making Pennzoil the third-largest independent U.S. producer. The deal was valued at about \$1.1 billion.

Many in the oil business figure about \$10 billion worth of U.S. oil properties have been put up for sale this year, but estimates range from \$6 billion to \$20 billion.

The industry is in the process of being turned over to small, enterprising producers with low overhead," said William E. Strevig, president of Houston investment banker Strevig & Associates.

Major oil companies aren't abandoning the United States altogether,

er, but they are trying to sell oil fields that are reaching the end of their productive lives. In the first half of this year, U.S. crude production reached its lowest level since 1961, according to the American Petroleum Institute.

Production from Alaska's once-rich north slope has been declining since 1988, when it peaked at about 2 million barrels a day. Daily production is expected to be half the 1988 level within 10 years, according to the Alaska Department of Natural Resources.

Meanwhile, the federal government is blocking exploration of potential fields off the coast of California and in Alaska.

Changes in the domestic oil industry have meant a loss of 17,000 exploration and production jobs in the United States between January and August, the API calculates.

The prospects of substantial new production in the United States are so slim that major companies are willing to gamble overseas despite non-existent infrastructures, huge political risks and outdated technology, Strevig said.

Chevron has agreed to a 40-year, \$20 billion deal to help develop two fields in Kazakhstan, a former Soviet republic. Irving, Texas-

based Exxon and Mobil last month agreed to jointly look into exploration and production opportunities in West Siberia in Russia.

Companies are also looking in the Pacific Rim and Latin America.

Despite the obstacles, major oil companies expect foreign fields to hold the best and cheapest prospects. "The majors think the best place to put people is not pumping the last barrel here, but looking abroad," Hawkins said.

When the major oil companies offer a field for sale in this country, they're looking at more than simply its prospects, said Jerry Brown, head of Amoco Corp.'s U.S. operations.

The properties Pennzoil is buying from Chevron are close to Pennzoil's existing operations in the Gulf of Mexico, on the Gulf coast and in West Texas. With a strong presence in that area, Pennzoil is counting on its local expertise and concentration of resources in the area to get a higher profit than Chevron could get.

By purchasing a neighboring oil field, a smaller producer can frequently work the field more cheaply than a major oil company that has the bulk of its operations far away, industry observers said.



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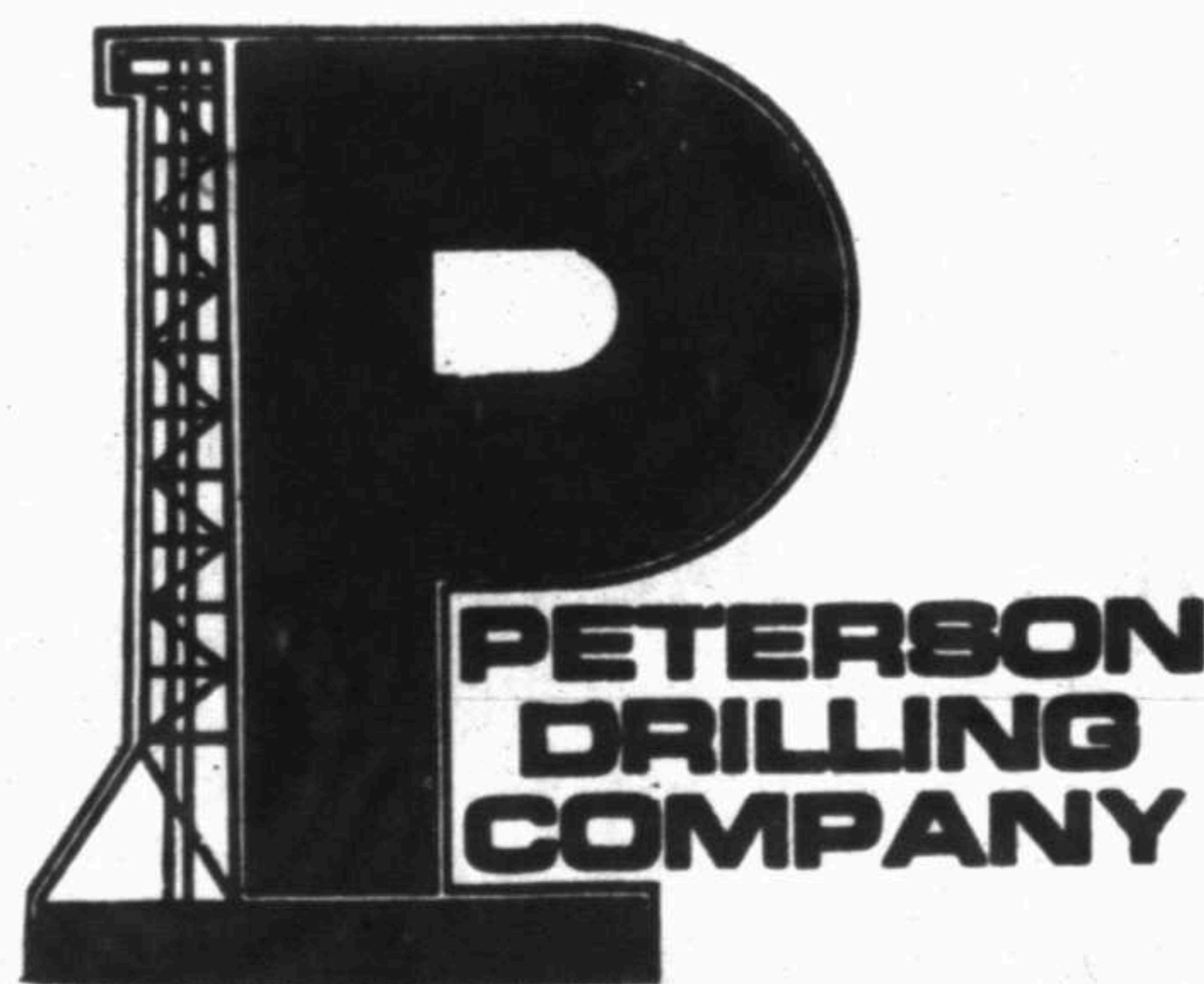
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HOBBS: New Mexico city sprang up around oil field

(From 18AA)

often was rented rather than purchased outright.

Throughout the rest of 1928 and 1929 the sound of hammering and sawing, the rumble of trucks and the quick chuffing of steam engines used on the drilling rigs of that day were heard. Nearby, Eunice, Jal, and Monument came into being as oil centers.

The New Mexico Electric Service Corp. was constructed by Plains Electric Co. in 1929. It was producing 40 kilowatts and served 29 customers.

After the arrival of the railroad, Hobbs grew, boasting of 34 drug stores and 19 pool halls. However, the Depression that followed the October 1929 stock market crash caused some panic in Hobbs, and when the East Texas boom exploded, many workers left. During the last two months of 1930 the exodus began.

CONSERVATION: In the months that followed, several big wells were completed, confirming the huge dimensions of the Hobbs field. It became apparent that at the rate new wells were being brought in, it was possible that 500,000 barrels a day production was feasible. The concern that unrestricted output would flood the market and rapidly deplete the resource led to the major operators initiating a program of controls, including limits on daily yields.

The State of New Mexico's Commissioner of Public Lands reversed an earlier position and went along with the proration policy, similar to programs in effect in the Yates, Winkler and other districts in Texas. Leases were divided into 40 acre units, with production allowables of 25 percent based on acreage, and 75 percent on daily potentials.

Once in effect, the Hobbs proration program became the basis of a statewide policy of conservation. The 1935 Legislature established the New Mexico Oil Conservation Commission.

In truth, the 40 acre unit was adopted so as not to disturb area ranch operations rather than as a means of conservation.

Conservation was also imposed by the limitation on the amount of oil which could be transported by pipeline, estimated at 35,000 bar-

rels a day for the field as a whole.

STEADY GROWTH: The last half of 1929 and the first few months of 1930 saw the boom approaching its heights. The main drag was lined on both sides by jerry-built structures. Many had the high false fronts typifying boomtown construction in the southwest. The street was graced by a lone brick building, Grady Thomason's Hardware Store.

Long lines of automobiles stood down the center of street. The narrow sidewalks, some of them of board construction, were packed with humanity. Drillers, rough-necks, roustabouts, pumpers, switchers, gaugers, gamblers, dancehall girls, lease speculators, carpenters, store clerks, housewives, and representatives of a hundred other trades and vocations rubbed shoulders in passing.

By mid-October 1930 the Hobbs field had a total of 106 producing wells capable of yielding 898,400 barrels of oil daily. By Jan. 1, 1931, the field extended over approximately 8,300 acres, of which 400 acres belonged to the federal government, approximately 3,050 to the state, and 4,850 to individual land owners.

By July 1931 the number grew to 144 wells with a potential of 1,156,800 barrels daily. The leading companies operating in the field were Midwest, Humble, Shell and Amerada, each with more than 120,000 barrels daily potential.

The Hobbs field is approximately nine miles long from east to west, and five miles wide from north to south, extending a mile westward into Eddy County. After the first wells were completed, the field was broadened northward in 1939 and southward in 1943. Production was from the Grayburg and San Andres sections of the Permian.

Note: This historical summary compiled and edited by freelance writer Joe Dominey was researched from sources provided by The Permian Basin Petroleum Museum Library, and relied heavily upon the work of Samuel D. Myres' exhaustive work The Permian Basin, Petroleum Empire of the Southwest, Volume I as well as other articles and interviews from the library's files.

Fire safety critical oil-patch issue

By Ellen Hopkins

Handling an ever-present fire danger in the Permian Basin takes cooperation, a special smothering foam, and experience gained only through countless hours of training.

The threat of oil-related fires is a constant concern in this area. It's not unusual for lightning to strike a tank battery, blow the top off and start a fire.

Because oil-field fires can be both intense and dangerous, special skills and materials are required to extinguish them safely. Local community fire departments and oil companies continue working together to assure the knowledge and safety of the firefighters.

"Martin County, Gardendale, South Ector County, Greenwood and Northeast Midland County are all volunteer fire departments," said Gary Chastain, Assistant Chief of Operations with the Midland Fire Department. "Also St. Lawrence and Midkiff. Midland County backs them up when they request it and vice-versa."

Chastain said Midland Fire Department firefighters practice drills at a facility located off Farm-to-Market Road 307. The drills involve oil-field pit fires, LPG (liquefied petroleum gas) fires and container fires.

"We do all types of this training here now," Chastain said. "All our firefighters have hands-on and classroom training once a month. There is a required number of hours of continued training to remain state certified."

Amoco Production Co. has created a re-

gional fire training center located in Brownfield to serve the entire Permian Basin. It will be used to train members of volunteer fire departments and industrial and municipal firefighters from throughout the Permian Basin.

Special oil-related fire training equipment at the facility includes a vertical gas processing tower to simulate fighting fires within a gas plant, and flange and pipeline fire areas.

The facility is a joint venture between Amoco, which provided \$175,000 in construction costs, and the city of Brownfield which contributed 15 acres for the facility.

Amoco spokesman Ray Thompson said, "There are dozens of small community volunteer fire departments throughout the Permian Basin oil patch and often these volunteer firefighters are the first on the scene of an oil-field fire."

Tony Repka, a member of the Brownfield Fire Department and an assistant maintenance foreman at Amoco's Wasson Plant, said the facility could encourage other oil companies and towns to work together on mutual training exercises. He said the training and expertise would be especially beneficial in an area that is spread out geographically.

"The smaller volunteer fire departments are often called on to assist one another, and through mutual aid exercises here at the center they will have a better idea of what kind of help they can expect at a fire," he said.

Chastain explained that oil-related fires

reported to or discovered by the Midland Fire Department are responded to with a tanker truck and crew from the nearest substation.

"How we respond depends on the extent of the fire," he said. "We have a procedure we follow. The first things we check for are the presence of any H₂S (poisonous hydrogen sulfide gas), the wind direction, and the name of the oil company that has the location so we can notify them immediately."

Chastain explained that oil companies will promptly send a representative to the fire scene so the flow of oil feeding the fire can be shut down.

"Most of the time the damage is done by the time we get there," he said. "So it's better for us to wait, if the fire is not spreading, and let company personnel dictate which lines and equipment to shut down."

Dale Little, Midland County Fire Marshal, said the county knows what the emergency response plans are for all oil companies.

"We combine their plans with our plans," Little said. "We have National Fire Protection haz-mat response books and State DPS haz-mat response books. We also help handle training for the county and some of the area's volunteer fire departments."

Little said they have used training tapes and programs in their own classes, and also participated in training programs through Midland and Odessa colleges, in San Angelo, and at Texas A&M.

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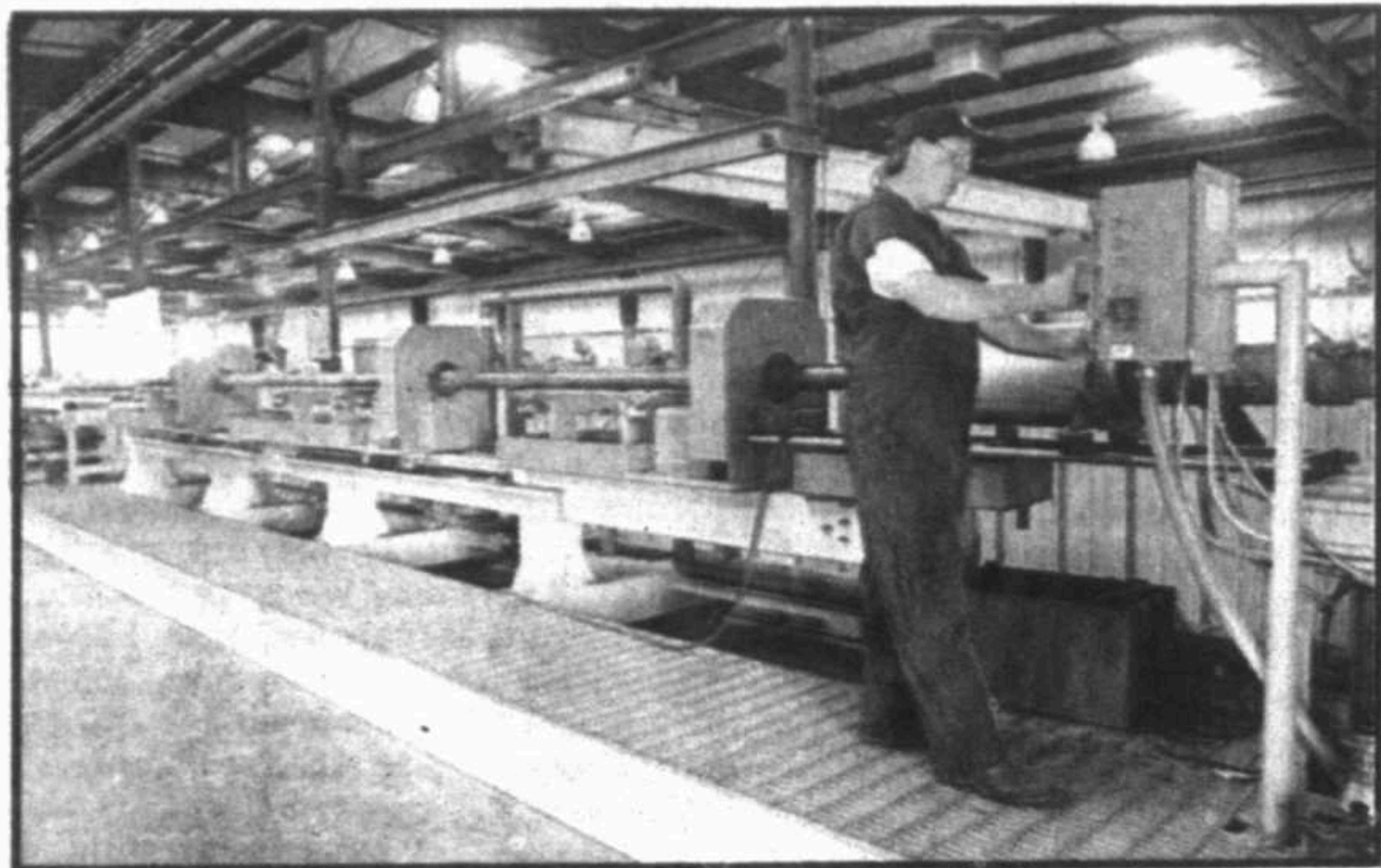
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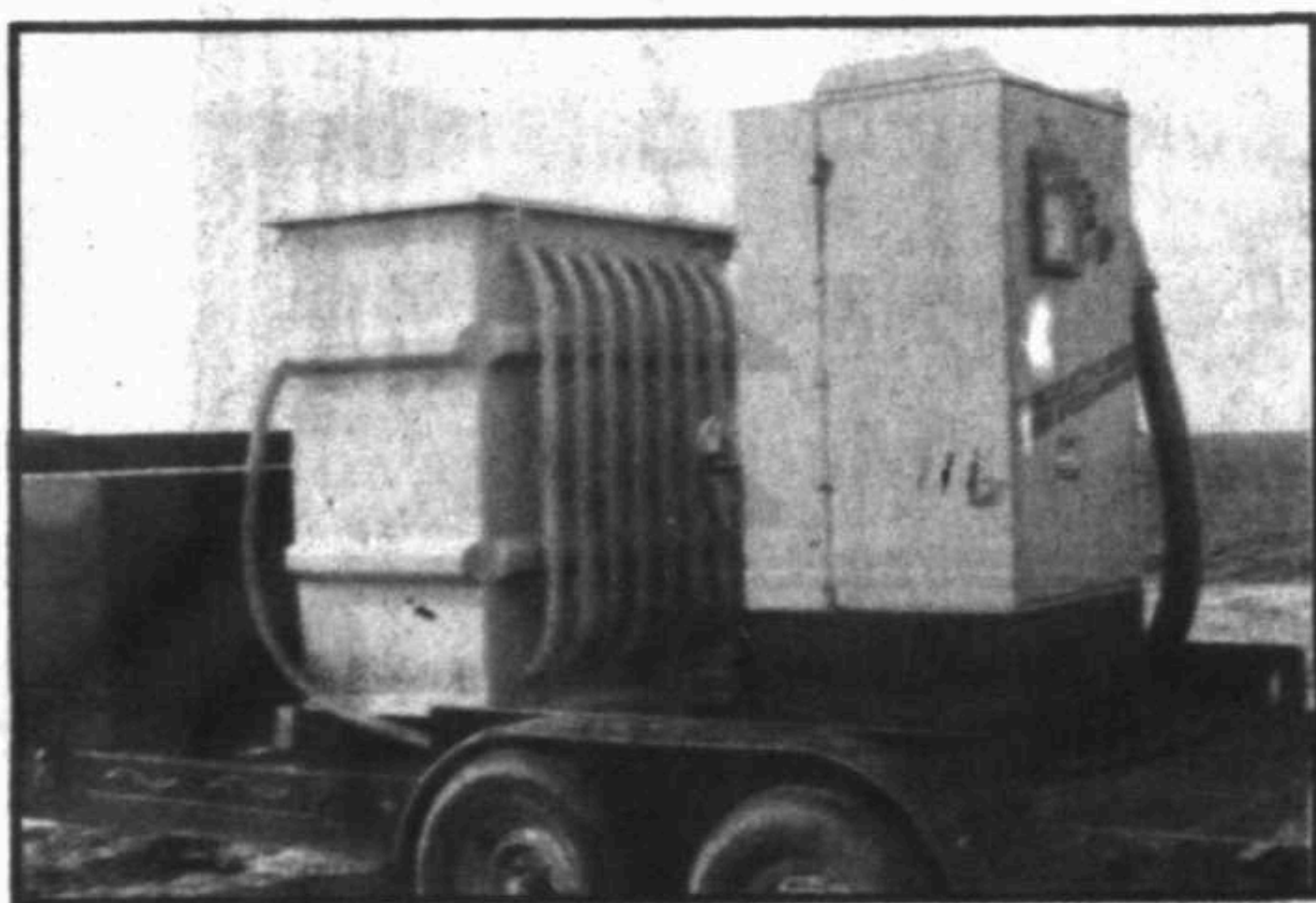
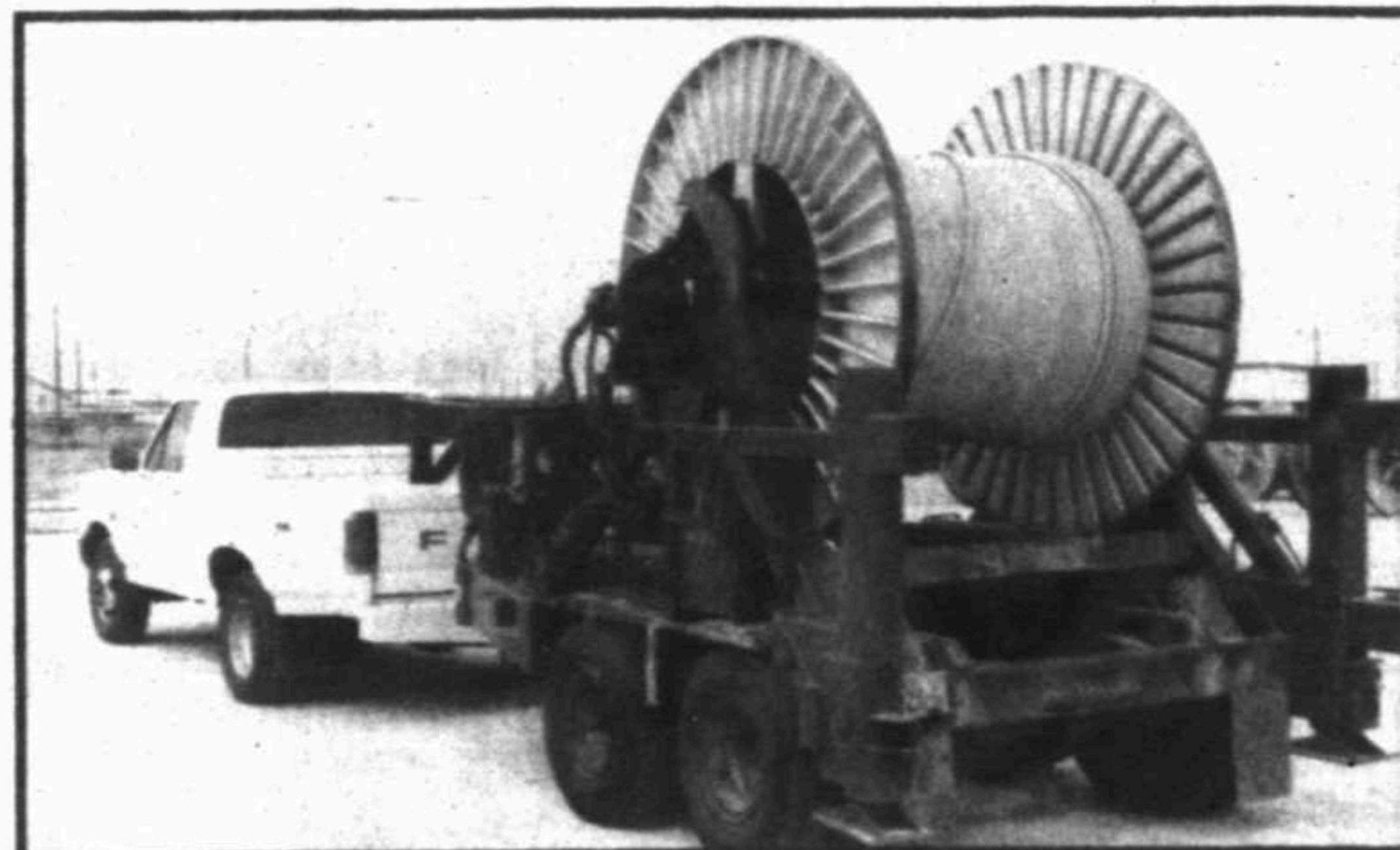
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Centrilift's pit testing to avoid costly repairs to your pump. Pit test data will show how your pump performs against API RP11S specifications and recommended operational tolerances. And, if your equipment fails the pit test, your test charges will be credited to the purchase of a fully warranted replacement.

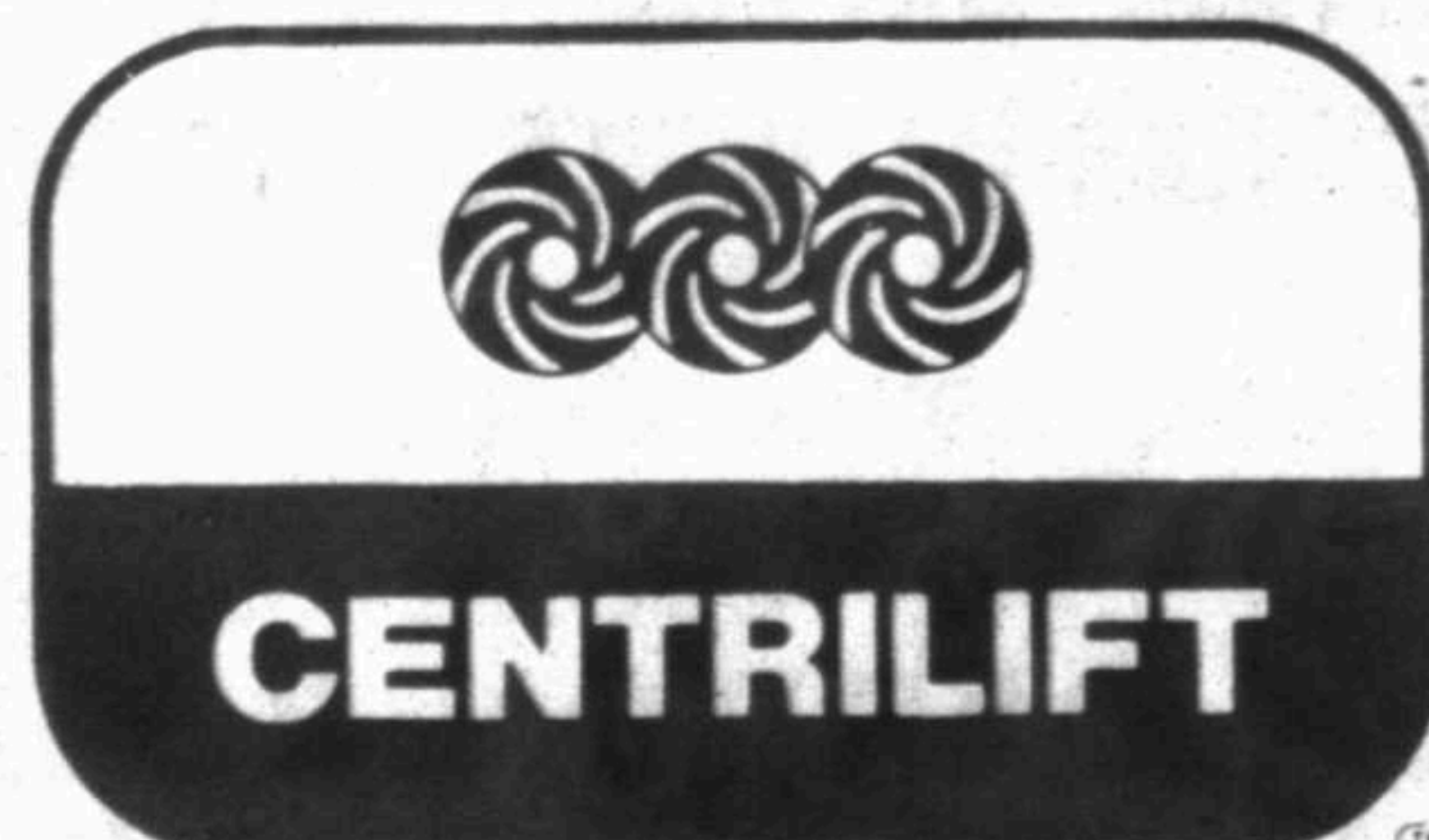


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INSIDE



Lot of work

Workmen make repairs to the new sign, which will be a permanent fixture, at the Permian Basin Oil Show.

Two years have come and gone since the last Oil Show and a lot has happened in the industry. But one thing that doesn't change is the tremendous amount of work that goes into putting on the world's largest inland display of oilfield technology and services.

Please see SHOW/27BB

Traditions

The Permian Basin Oil Show has long been known for its colorful atmosphere, from the exhibits themselves to the people who flock to see the show. In the early days of the Oil Show, it was known as much for its entertainment as it was for its displays of new oilfield technology.

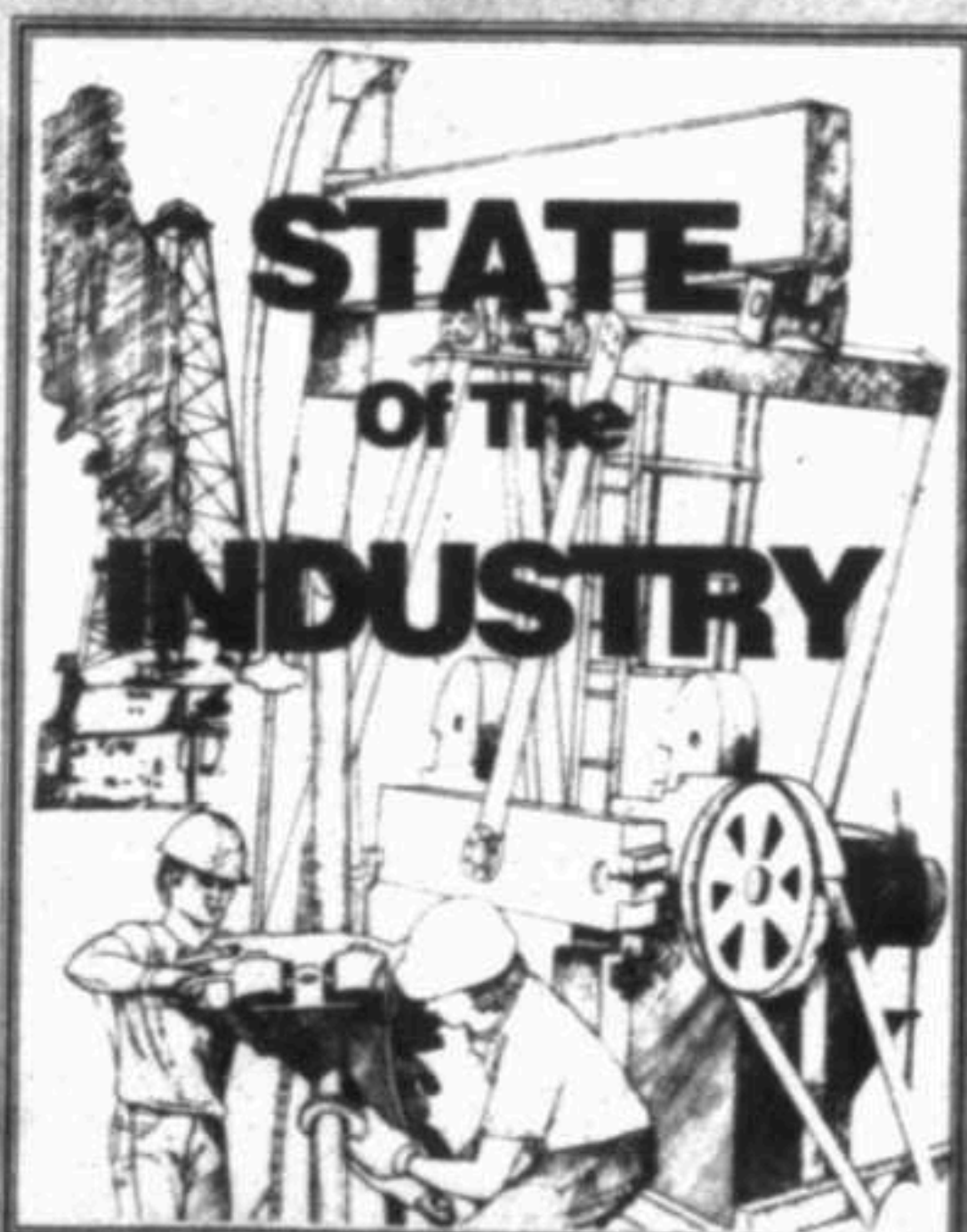
Today Oil Show traditions such as the parade and the Chuck Wagon feed live on, while the big name bands and entertainment have been discontinued.

Please see TRADITIONS/26BB

Exhibitors?

Where are the exhibitors? A complete listing of all exhibitors and a map showing their location at the Oil Show is provided on pages 28 and 29 of this section.

Please see EXHIBITORS/28BB



A message

This year's Oil Show is the largest in history, and that sends a clear message.

The Show will have more area, more exhibitors and hopefully more attendance than any previous oil show. Whether times are good or bad, one thing is almost a certainty: the Permian Basin Oil Show will be a sell-out event.

The continuing success of the Oil Show brings home a very important point. The point is: Regardless of the price of oil or the politics in power, America cannot run without energy and the wells keep on pumping during down times and up times.

Pumping wells require pipe, rods, pumps, parts and repair. They also require tanks, pipelines, transports, hot oilers, chemicals and a host of other services. And, it takes roustabouts, well service hands, pumpers and petroleum engineers to keep wells pumping.

In short, life goes on in the oilpatch — even in the worst of times.

For additional state of the industry news see:

- SECTION CC....Technology
- SECTION DD....Changes
- SECTION EE....Natural Gas
- SECTION FF....Local



Reporter-Telegram photos

Photo composite: John Paul Pitts

The ghostly image of a well service hand is super imposed over a crowded Permian Basin Oil Show scene. Known as the "work-

ing man's oil show," the Oil Show is famous for matching technology and the people who use it.

Best of oil shows

By Mella McEwen

Staff writer

As an oil show, the Permian Basin Oil Show has no equal, and as a national trade show few equals.

From a small exhibit that was set up as part of a convention 51 years ago, the Permian Basin Oil Show has grown into the nation's largest trade show devoted to the inland petroleum industry. Among oil-related trade shows it is exceeded only by the Offshore Technology Conference in Houston. And among the top 200 trade shows in the U.S., it is rated 17.

This year, a record 1,180 exhibitors will set up at the Oil Show, which has been expanded by recent innovations to the Ector County Coliseum and its surrounding complex. Over 200,000 are expected to attend the Show which will bring in \$15-\$20 million to the Permian Basin economy during its three-day run.

Jay Alvey, the show's executive director since 1960, attributes the show's success partly to the show's reasonable prices.

Analysis

But the main reason for the show's success and growth, according to Alvey, is its site in the Permian Basin, home of 19 percent of the nation's crude. This, Alvey said, is where most of the actual buyers and users of oil equipment are located.

The Permian Basin Oil Show began life in 1940 as "The Little International Oil Show." But its roots go back a year earlier, to the first meeting of the Permian Basin Association, which is believed to be the forerunner of the current American Petroleum Association.

The PBA was formed in Colorado City in 1939 in commemoration of the completion of the No. 1 Morrison, discovery well of the Westbrook field, the discovery field of the Permian Basin.

Odessa representatives had joined representatives of 20 other Permian Basin counties at the meeting, and lobbied long and loud to have the second convention in

Please see OILSHOW/30BB



SHOWING OFF oil field equipment was just one of the functions of the 1940 event, but over the years it has become the focus of the Oil Show. Engine Service & Supply Co. has been a traditional exhibitor.

Oil show traditions

The Permian Basin Oil Show is one of the most colorful petroleum events in the United States, and much of the credit goes to tradition.

Oil Show traditions are numerous, and many, including the fabulous Chuck Wagon feed, were born with that first show at Floyd Gwin Park in 1940. Also born that summer was the tradition of the Oil Show parade, which brought thousands of people from around the Permian Basin to witness the three-mile long parade of oilfield equipment, bands and floats. Such festivities were enough to make the Permian Basin Oil Show a family tradition.

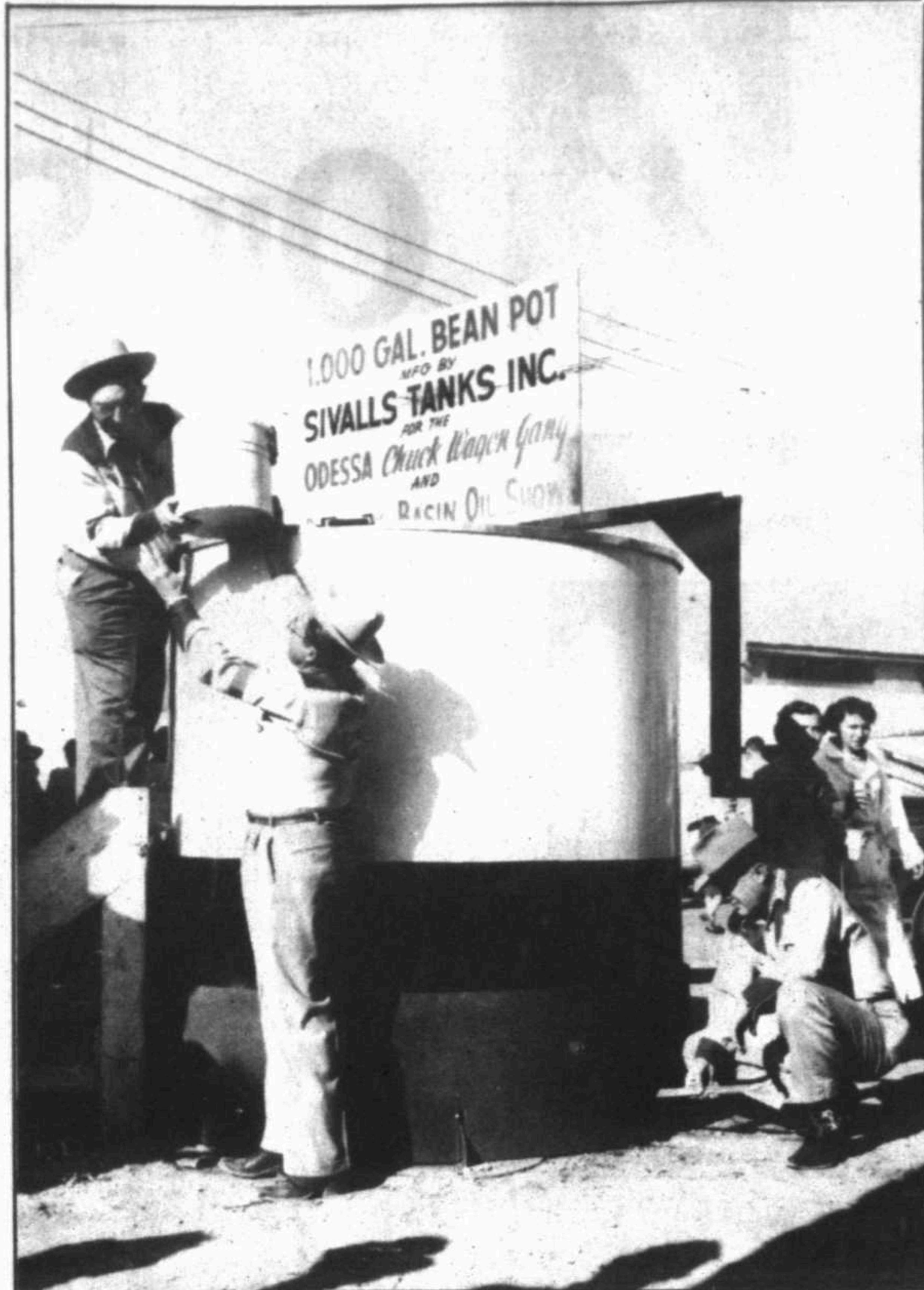
Aside from Friday night football, there were few must-see events in the Basin during the 1930s, '40s and '50s. But along with the Pecos Rodeo, the Oil Show quickly became a must-see event for all of

West Texas and Southeast New Mexico.

It was the one event in the basin where crowds were large enough to support such distinguished parade dignitaries as Elliott Roosevelt, son of former President Franklin D. Roosevelt, and Harry C. Weiss, president of Humble. And, it was the one event that made it possible for big band entertainment such as Harry James, and Paula Kelly and the Modernaires to bring boogie and swing to Odessa.

Movie stars were also a part of the Oil Show. Basin residents flocked to Odessa in 1952 to see movie stars Preston Foster and Arthur Lake and Penny Singleton of the Dagwood and Blondie movies.

Showing equipment started off as an aside to the 1940 Permian Basin Association convention, but quickly became the major attraction, making the Oil Show what it is today.



BEANS barbecue and the Chuck Wagon Gang are traditions that began with the Oil Show.



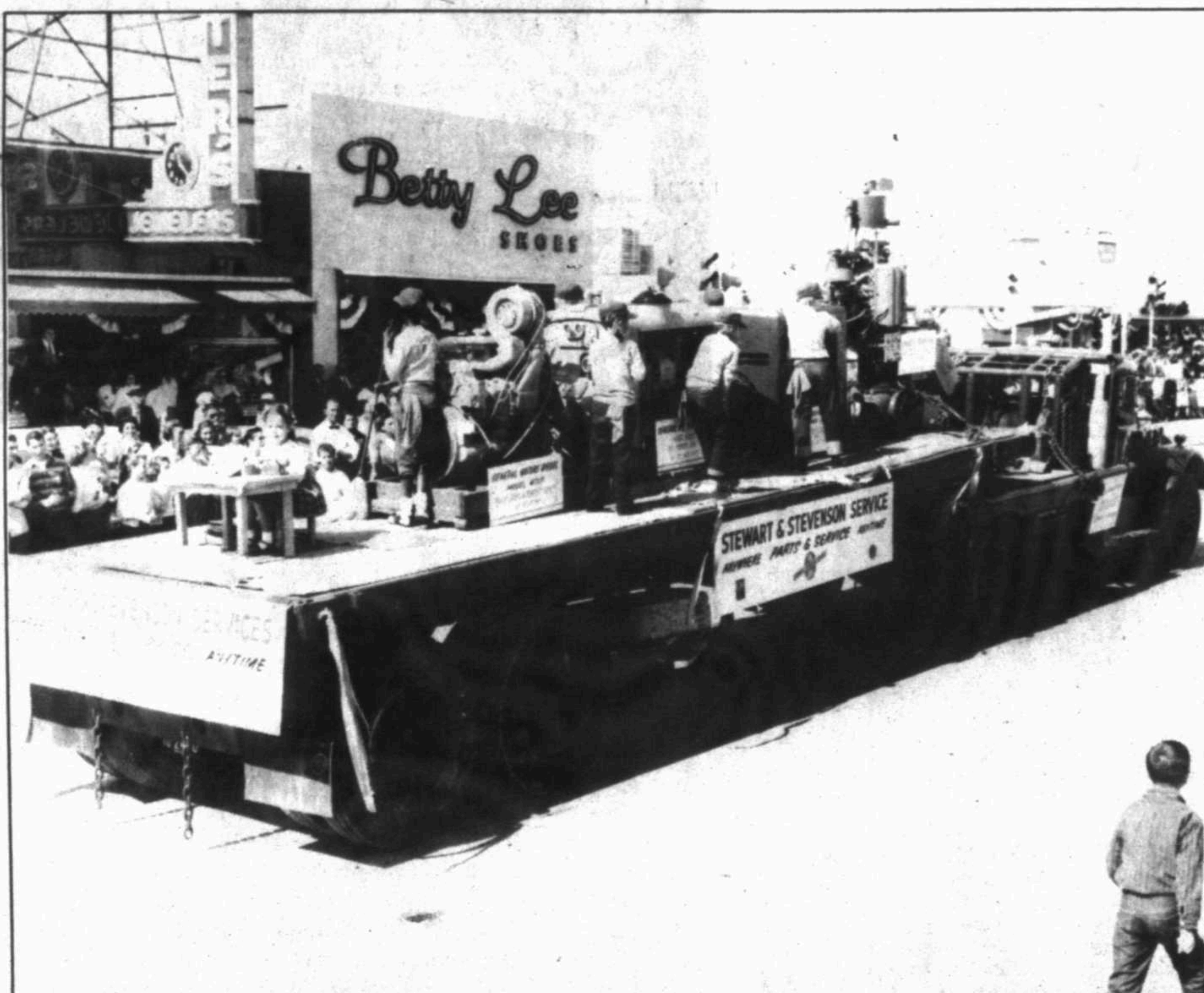
PRETTY GIRLS have long been a traditional means of dressing up oil-field equipment at the Show.



FAMILY outings to the Permian Basin Oil Show date back to its earliest days when it was a "must-see" event.



ENTERTAINMENT by such big name groups as Paula Kelly and the Modernaires was one Oil Show tradition that did not survive.



PARADES were an early tradition that brought thousands of people from across the Permian Basin to Odessa's Grant Street and gave many their first glimpse of celebrities.

Text by John Paul Pitts

Photos courtesy: Permian Basin Oil Show

Both the Oil Show and the past 30 years have a better look

Oil on

By Mella M. M. Staff writer

Renovations for boost to the

According to the renovations have a complex, containing four new buildings. This year's show is making a total record number to the inland area.

"It makes it executive director

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Alvey explained of exhibitors, in the past, even to oilfield per

"We are a band and under our some of the show wanted to keep

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Staff report

For Jay Alvey, Permian Basin Wednesday, Thursday will be unlike the

overseen as executive director. For one thing, the home of the Oil Show, the Ector County Coliseum, is

sporting a new look thanks to a \$5.3 million remodeling job.

The renovations have resulted in four new buildings that have added spaces that, outside spaces, 210 new exhibit

Techn

Showing off has always



Both the Oil Show and the neighborhood have changed in the past 30 years. This year the show will take on an even better look with newly renovated facilities.

Oil Show takes on a new look

By Mella McEwen
Staff writer

Renovations to the Ector County Coliseum have given a major boost to the 1992 Permian Basin Oil Show. According to Jay Alvey, executive director of the Oil Show, renovations have brought four new exhibit buildings in the complex, containing 132 exhibit spaces. He added that, with the four new buildings, 123 new exhibit spaces have been added to this year's show, in addition to an additional 85 outside spaces, making a total of 210 new exhibit buildings. All that adds up to a record number of spaces for the nation's largest show devoted to the inland oil industry.

"It makes it a brand new Oil Show," said Alvey, who has been executive director for 32 years.

In addition, the Coliseum itself has been renovated and re-roofed and the grounds enclosed in a concrete tile block fence. The main parking lot has added parking space and been resurfaced and there is a new street between the Coliseum grounds and the water storage tank.

In addition to a renovated site, the show itself has been shortened, open three days instead of the traditional four.

Alvey explained that the show was shortened at the request of exhibitors, but the final day will be open to the public, as it has in the past, even though exhibitors requested it remain closed to oilfield personnel only.

"We are a business and educational non-profit organization and under our charter we are required to admit the public during some of the show," he explained, adding that show directors wanted to keep part of the show open to the public.

Jay Alvey prepares for his 16th Oil Show

Staff report

For Jay Alvey, the upcoming Permian Basin Oil Show, set for Wednesday, Thursday and Friday, will be unlike the 15 others he's overseen as executive director.

For one thing, the home of the Oil Show, the Ector County Coliseum, is sporting a new look thanks to a \$5.3 million remodeling job.

The renovations have resulted in four new buildings that have added 123 new exhibit spaces that, coupled with 85 new outside spaces, bring the total to 210 new exhibit spaces.



Alvey

When he joined the Oil Show in 1960, he was assistant manager of the Odessa Chamber of Commerce and was "borrowed" for what he thought was one show. At the time, the show was in deep financial trouble and needed managerial help.

The impact Alvey has had on the show became evident in 1976. The show was already sold out, but companies were still asking to exhibit. He expanded the amount of space available. All the spaces were sold.

And while the 1992 show may be different from the first one he produced in 1960, there are some things Alvey is determined will remain the same.

One is opening the show to the public during some portion of it. The second is his determination not to charge admission.



Galvin

Chevron head is honoree

By Mella McEwen
Staff writer

Ray Galvin, president of Chevron U.S.A. Inc. has been named honoree of the 1992 Permian Basin Oil Show.

He is a native of Cisco and holds a bachelor's degree in petroleum engineering from Texas A&M University.

He began his career with Gulf Oil Corp. after graduation as an engineering trainee. He served in various engineering and management positions in Oklahoma, Pennsylvania, Texas and Louisiana.

He became vice president of Production U.S. Operations in 1979.

In 1981 he was named vice president, south and east offshore division, Gulf Oil Exploration & Production Co.

After implementation of the Gulf-Chevron merger in 1985, he was elected vice president, exploration, land and production for Chevron U.S.A. Inc., southern region.

In August 1988 he was elected senior vice president, exploration, land and production for Chevron U.S.A.

He assumed his current position as president the first of this year when Chevron U.S.A. was divided into two units, exploration and production, and for refining and marketing.



Robert Beggs

Midlander heads '92 Oil Show

By Mella McEwen
Staff writer

The 1992 edition of the Permian Basin Oil Show is being directed by Midlander Robert K. Beggs, who joined the show's board of directors 20 years ago and has worked on almost every Oil Show committee.

"The reception to this year's show has just been overwhelming because of the almost new show grounds and buildings," he said. "This year we will be hosting the largest Oil Show ever staged in the Permian Basin and the largest oil show in the nation devoted to the inland petroleum industry."

He observed that "The inland petroleum industry is presently undergoing some very difficult times because of economic conditions, and because this is an election year, with the presidential election in full swing, those in the oil business will be watching closely to see which direction the industry will take."

Beggs, born in Huron, S.D., moved to Texas when he was 6 months old and was raised around the East Texas oil fields.

He attended the University of Texas and began his career at Sun Oil Co., where he worked in South Texas, Louisiana and Mississippi.

After working in Robert Lee, Gainesville and Dallas, he came to Midland in 1971 as district manager and retired in 1985.

Permian Basin Oil Show '92



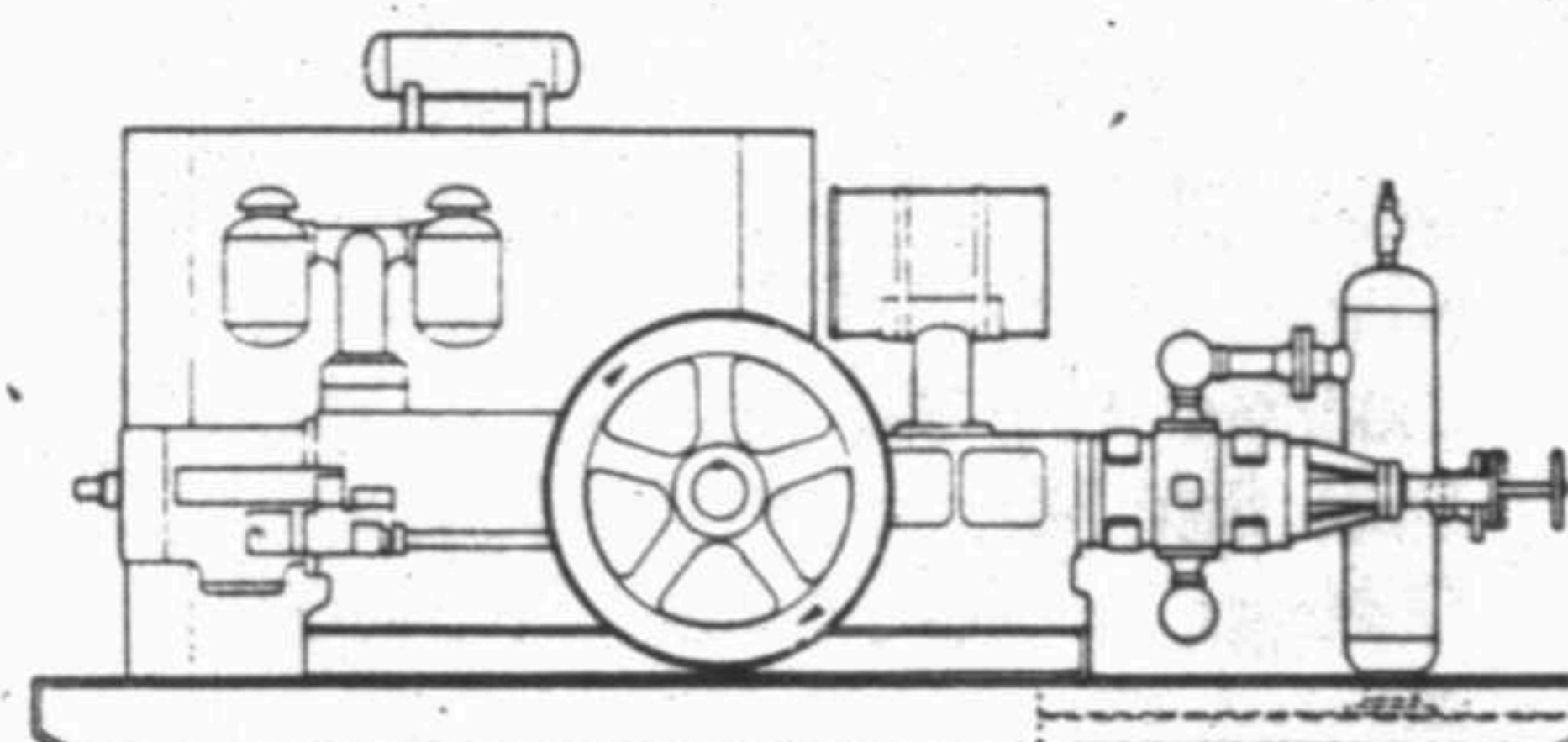
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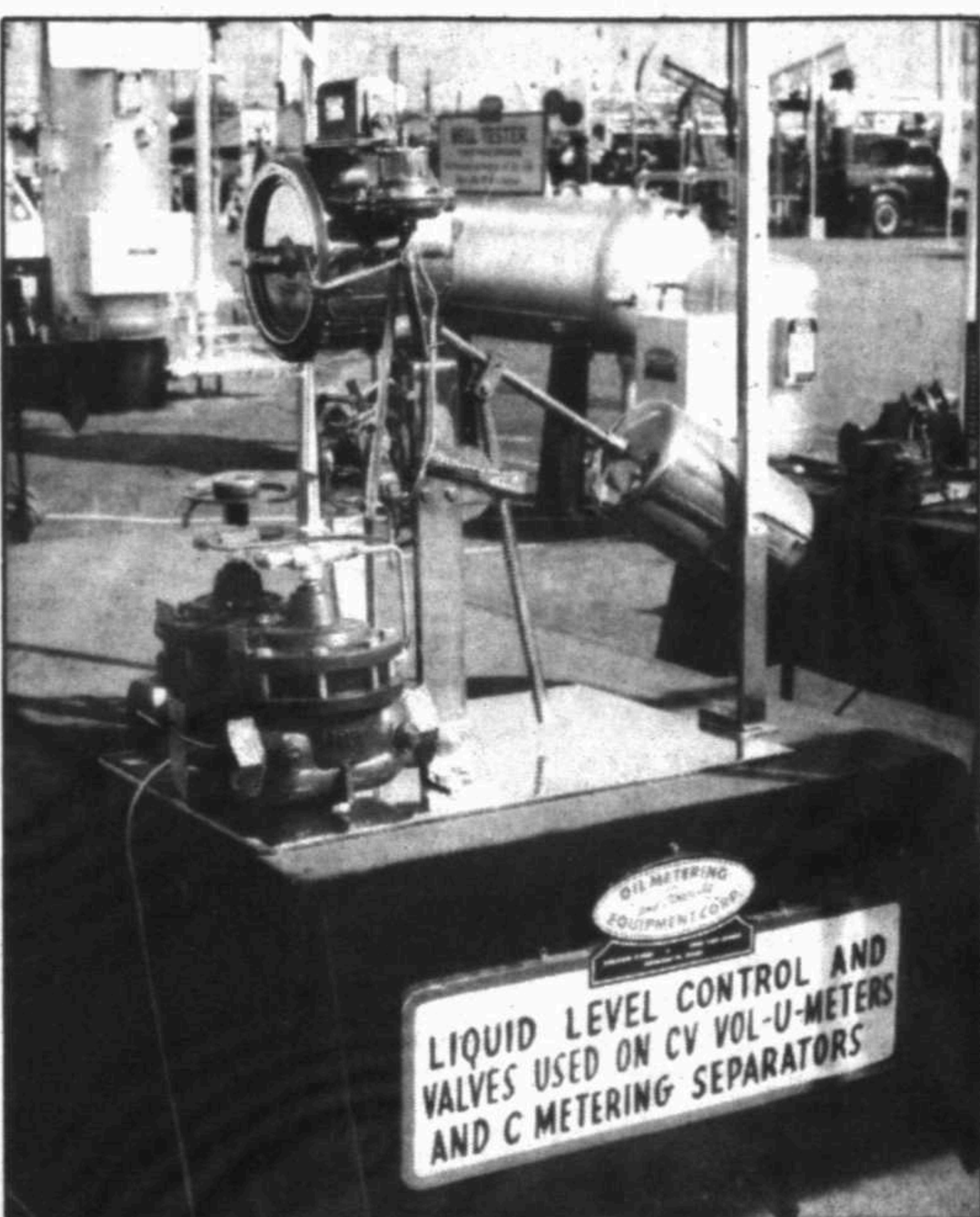
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Technology

Showing off technology, such as this metering equipment, has always been one of the main aims of the Oil Show.

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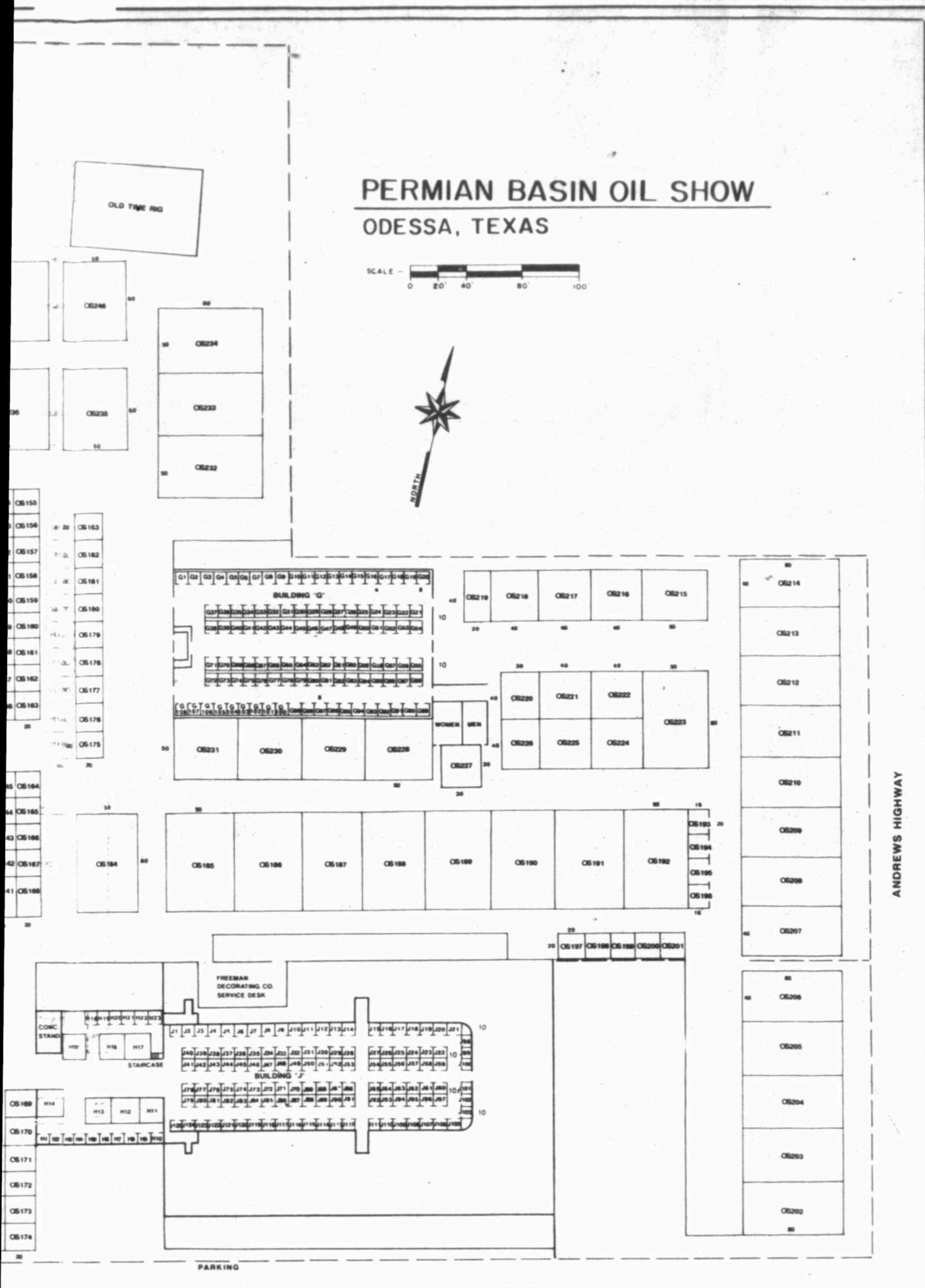
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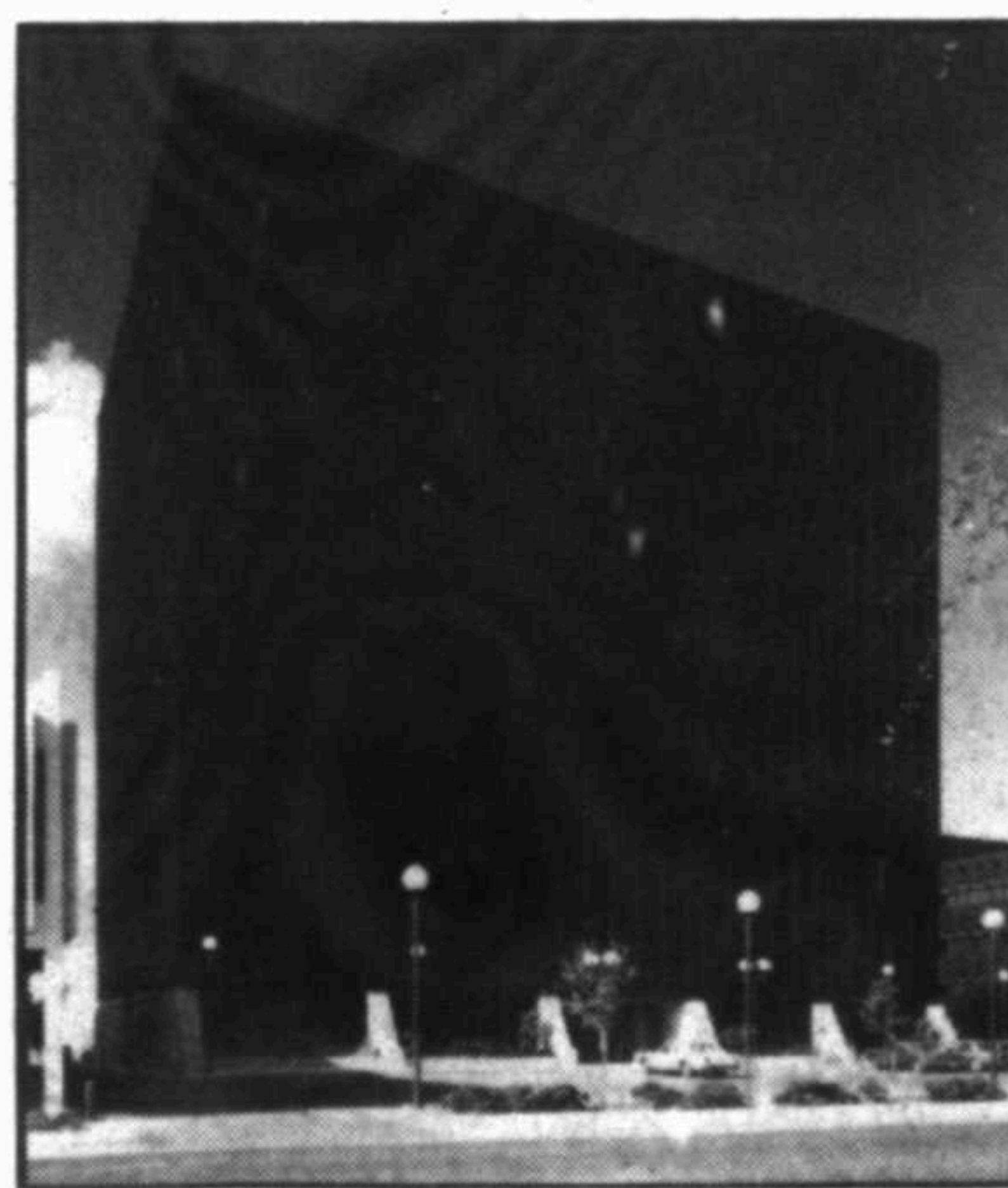
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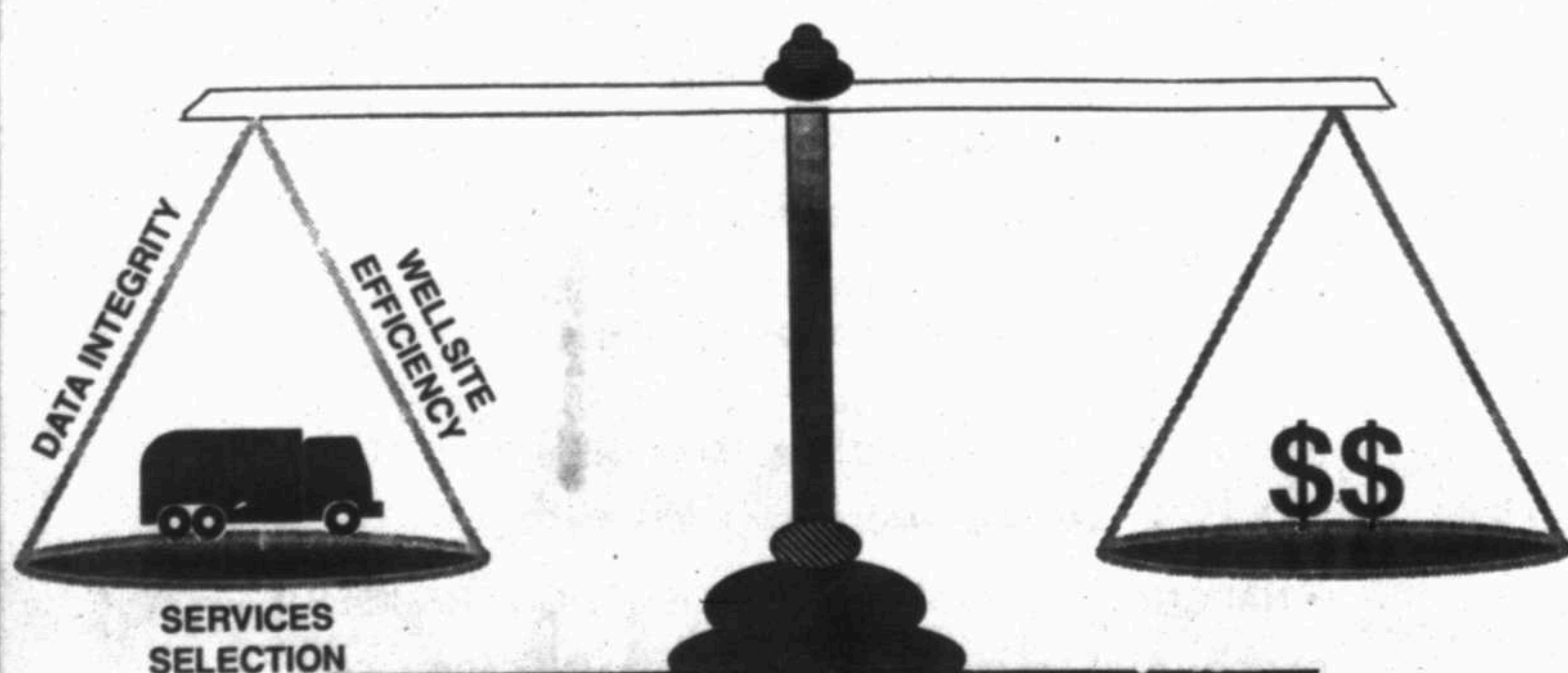
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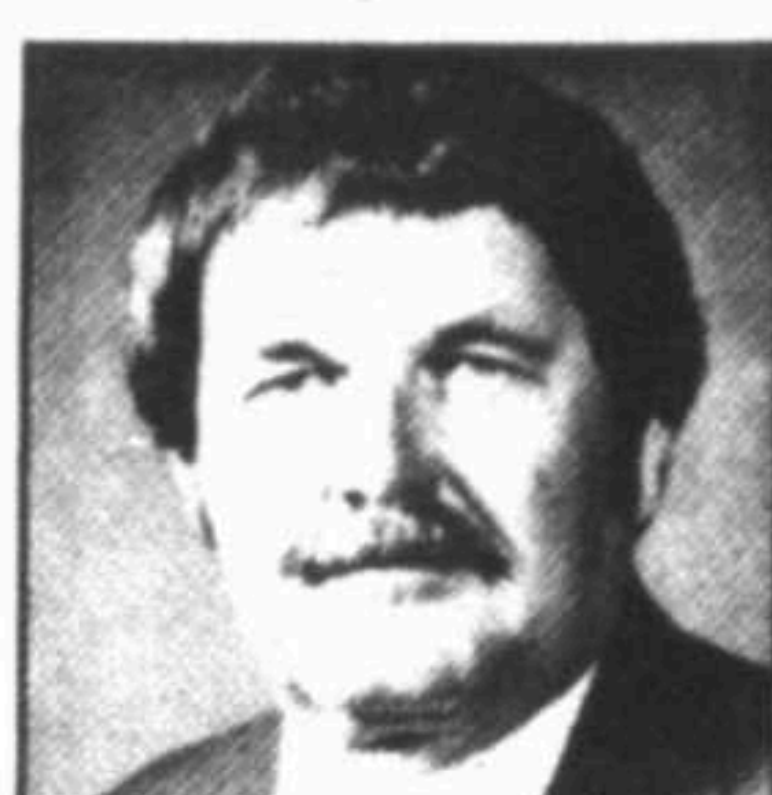
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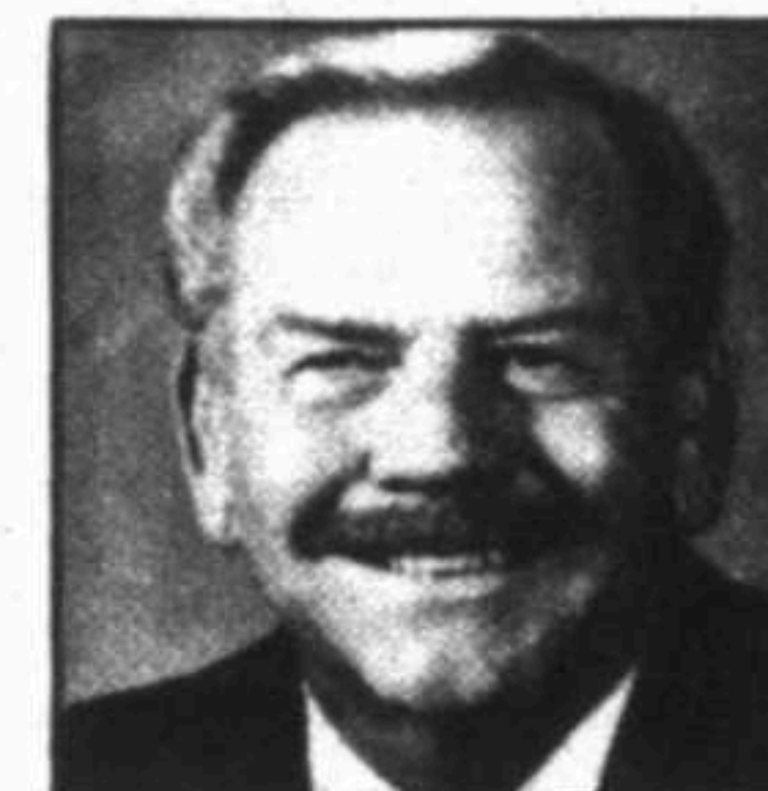
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consists of a president, three vice presidents, immediate past president, executive director, assistant to the executive director, treasurer and five executive committee members.

And each year the 12 members of the Executive Committee above start planning early and work late to insure that the Oil Show runs smoothly.

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(From 258B)

their city until finally the other delegates agreed.

Since its beginnings, four men have played major roles in the development, growth and success of the Permian Basin Oil Show, and these four have been dubbed "The Four Horsemen."

The first of these four arrived about the time PBA delegates agreed to have their second convention in Odessa.

His name was Jerry Wade Debenport, who had come to Odessa as the new secretary-manager of the Odessa Chamber of Commerce. He was named general manager of the upcoming PBA convention and began making plans that included speakers, entertainment and a barbecue by the newly-organized Chuck Waggon Gang.

Debenport also thought of having exhibits at the auditorium located at what is now known as Floyd Gwin Park in west Odessa.

But, just weeks before the convention, only three exhibitors had signed on. Luckily for Debenport, a number of major exhibits were shipped intact to the convention from Tulsa, where the International Oil Exposition had been held. Over 60 exhibits were part of that second PBA convention.

A festive three-mile-long parade kicked off the convention on June 21, 1940, followed by speeches from Elliott Roosevelt, son of President Franklin Delano Roosevelt, and Harry C. Weiss, president of the Humble Oil & Refining Co.

Unfortunately for Lubbock, which was to have been the site of the next PBA convention, exhibitors said they had experienced better sales and contacts in three days in Odessa than 10 days in Tulsa, and decided the "Little International Oil Show" should be an annual event and Odessa should be the permanent site.

The second "Little International Oil Show" was held June 19-22, 1941 and featured 65 exhibitors. The show featured a speech by then-Texas governor W. Lee O'Daniel, who managed to spend all of 10 minutes in Odessa, speech and all.

This was the second and final "Little International Oil Show." America's entry into World War II following the bombing of Pearl Harbor on Dec. 7, 1941 sent West Texans off to war and the oil industry producing fuel for the war effort.

During the war years, Debenport left the Odessa Chamber, and the "Second Horseman" arrived. Floyd Houston Crump came to

On May 11, 1953, the Permian Basin Oil Show was issued Charter No. 115089 as a non-profit educational corporation.

Odessa in 1949 as general manager of the Odessa Chamber of Commerce.

This was the same year the first "Oil Progress Week" was held, in October and coinciding with the 90th anniversary of the founding of the U.S. petroleum industry. This week was an outgrowth of the 1948 "Oil Progress Day."

Because there was no time to plan a 1949 Oil Show, Crump began spearheading the effort to hold a 1950 Oil Show, now officially known as the Permian Basin Oil Show and scheduled for even-numbered years.

The first post-war Oil Show, held in October 1950, drew 214 exhibitors and attracted 70,000 visitors. Midlander Lloyd R. French served as the first president of the Oil Show Board of Directors.

Crump died a few weeks before the 1952 Oil Show was to open and the show was dedicated to him. The show featured entertainment by performers Arthur Lake and Penny Singleton, "Blondie and Dagwood" of the movies and television. Over 110,000 visitors attended this show, which featured over 300 exhibitors and was the last one held at Floyd Gwin Park.

Crump's successor, the "Third Horseman" was Carlos L. Clover, who had come to Odessa in 1941 from Hobbs, N.M. as an accountant.

Following the 1952 show, directors and officers began the task of incorporating the Oil Show. On May 11, 1953, the Permian Basin Oil Show was issued Charter No. 115089 by the Texas Secretary of State as a non-profit educational corporation.

Its charter declared, among its purposes, "to provide for the exchange of information useful to individuals or firms engaged in the production of oil and gas or in the refining and processing thereof."

...and to provide the main in the field with an opportunity to see the equipment or examine the services that he may care to use."

The principal directors filing the charter included A.R. "Happy" Dyer, Robert E. Durrett Sr., Frank A. "Bud" Knight, Ike Lovelady and Carlos "Cotton" Clover.

Development also began on a permanent "Boom Town" recreating the "Roaring Twenties" and featuring as its central attraction a wooden cable tool rig, which actually operates during the show. Other parts of the "Boom Town" include a saloon, cafe, jail, cot house and tent-and-shack city that brings back "Boom Town" days.

The cable tool rig is a central attraction of the show. The original rig featured parts brought in from the Big Lake field and burned after the 1958 show. The original rig had a 90-horsepower boiler, wooden shaft and complete wooden structures. A replica was built for the 1964 show and remains a popular attraction.

In 1956, the rig spudded in the No. 1 E.E. "Pop" Harrison when L.R. "Paw-Pa" Galbreath, a veteran driller from Eunice, N.M. "hit the first lick."

After overseeing the continued growth and expansion of the Oil Show, Clover resigned in 1959 to devote more time to his personal affairs.

He was replaced by the "Fourth Horseman" Jay Alvey, who remains executive director to this day.

He had come to Odessa in 1945 as contact representative of the Veterans Administration. In 1956, he joined the Odessa Chamber of Commerce, leaving there in 1960 to become a vice president of Odessa' First National Bank.

In 1960, the Oil Show was in deep financial trouble and in need of Alvey's flair for management. He was "borrowed" to help produce the 1960 Oil Show. Since then, he has made a number of changes in the show, helping rid the Oil Show of its "fair atmosphere" and establishing it as a trade show.

Under Alvey's guidance, the show began limiting attendance the first two days to industry personnel only, with the show open to the public the remainder of the time. He was also responsible for opening up the Coliseum itself to exhibitors, as well as two exhibit buildings that had been used for storage and by civic groups promoting the show.

While the industry has undergone severe economic hardship and wrenching changes since 1982, the Oil Show continues to attract large numbers of exhibitors and many thousands of visitors.

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By Ellen H.

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By Mella M.

Staff writer

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Major oil discoveries influence city's history

By Ellen Hopkins

Indications that the Permian Basin oil industry has "volleyed" or roller-coasted since its inception are found in the history of the area, with specific economic swings during the discovery of the Yates, Spraberry Trend Area, and Cayanosa oil and gas fields.

Their discovery significantly furthered the expansion of Midland and lessened the area's dependence on farming and ranching.

Similarly, the petroleum industry's continued local economic impact has been reflected in Midland's 10-year quest for diversification.

Area population has always fluctuated with the price of oil, but during Midland's initial years, it also varied with the annual rainfall: usually less than 16 inches a year and under 10 during drought years.

From the time the first permanent settlers came to Midland County in the 1880s, "I've spent half my life praying for rain" became a common local saying.

Nevertheless, between 1900-1910, 100 new farms were established in Midland County. By this time the city of Midland had become the supplying, shipping and residential center for 50-100 miles, a far cry from its railroad spike beginnings.

Area farms slowly increased the size of Midland, but a three-year drought paralleled World War I and brought about land foreclosures and local business failures. Approximately one-third of the population in Midland and Ector counties moved away.

Many of those who stayed turned to ranching and there were about 35,000 head of cattle in Midland County by the end of 1919. The residents of the area held on and their combination of stubborn and resolute qualities laid a foundation for the beginning of oil exploration in the 1920s.

Surface geology, originally used to discover potential oil sites in other parts of the country, was useless in much of the Permian Basin and especially in the sand dunes of Ward and Winkler counties.

Later technology would uncover the area's secret of oil in multiple zones, reachable by drilling a single well. But it was these early attempts at simple exploration and drilling, difficult as they were, that began to uncover oil fields in West Texas.

Ranchers who trekked to Midland for ice and groceries found a new strain of conversation in hotel lobbies. Few were talking as much about cattle weight and market prices as were inquiring about who had leased or drilled for oil.

In 1923, after having watched his neighbors' ranches become oil-producing land, Ira Yates was finally offered a contract on his ranch. Needing to supplement his income, he signed an 8,000 acre lease with Transcontinental Oil Co. for a bonus of \$1 an acre on 4,000 acres and 25 cents an acre yearly rental on the entire tract.

Mid-Kansas Oil and Gas Co. later agreed to drill four wells on ranches in the area under one condition: if the first three wells were dry, the fourth could be forgone in lieu of cash payment.

The first three were dry, but an insistent geologist named Frank Clark is credited with drilling the fourth well on Yates' ranch. The #1-A Yates came in October 29, 1926 on Ira's 67th birthday and, when deepened to 1,150 feet, it tested at 2,950 barrels an hour.

The rest is history for Yates but it was just the beginning for Mid-

From 1948-1953 Midland experienced another boom due to additional discoveries, especially those in the Spraberry Trend Area. This field, stretching north and south through Midland County, spans seven counties and covers one-half million acres. In 1950, leases in the area ranged from \$25 to \$75 an acre and wells potentialed from 34 to 397 barrels of oil a day.

land. During the 1920s, Midland's economic outlook improved with a financial emphasis on oil, and its population increased 225 percent to nearly 8,000.

Between 1924 and 1926, Midland's first street lights and city-wide sewer systems were installed, and downtown was paved. The following year City Hall was built, as was Thomas S. Hogan's 12-story Petroleum Building.

With the production of Reagan County's Santa Rita #1 well in 1923, Midland and San Angelo became rivals for the title "Gateway to the oil fields."

Because Midland eventually found itself more centrally located to the action, and because of Hogan's Petroleum Building just waiting for oil companies to lease space, Midland won. It soon became the hub for oil personnel traveling between Snyder, Odessa, Monahans, Crane, McCamey and Midland.

The economy flourished, but soon residents became used to the boom/bust activity of the industry. Between the Depression years of 1931 and 1934, activity around Midland again decreased and people moved.

Many oil companies left the Hogan Building, nearly bankrupting its owner. Gambling became more popular than ever in local hotels, but because money was short, gamblers were often heard sharpening their math skills by bartering a 3/16th of a 1/4 of a 1/8 interest in a well.

The FDR administration's recovery programs that followed the Depression benefitted the area as the price of oil rose from 10 cents a barrel to \$1. Drilling increased rapidly in the early 1940s and another Midland growth spurt occurred.

Oil companies scrambled to keep their 10-year leases that were near expiration.

World War II stimulated the demand for oil. The returning oil companies found a housing shortage in Midland partially because the families of men stationed at Sloan Field were also moving here.

During the 1940s, Midland's population increased from 9,352 to 21,713. A better-educated work force applied the war's new technological advances to the oil industry. Unlike previous booms, there was less additional drilling and an increase in improved recovery methods.

Oil was found in Midland County in 1945 and activity moved closer to home. The First National Bank added several floors and other multi-story buildings, including the Wilkinson-Foster, the Humble, the Permian, and the Honolulu, led to the "Tall City" designation.

From 1948-1953 Midland experienced another boom due to additional oil discoveries, especially those in the Spraberry Trend Area.

This field, stretching north and south through Midland County, spans seven counties and covers one-half million acres. In 1950, leases in the area ranged from \$25 to \$75 an acre and wells poten-

tialed from 34 to 397 barrels of oil a day. In 1951 as many as six new wells a day were added to the field's production.

By the fall of 1951, the trend appeared to be high volumes of steady oil production, followed six months later by a significant increase in casinghead gas. Without facilities to handle it, most operators flared the gas until the Railroad Commission said it was wasteful.

Beginning in April 1953, nearly 75 percent of Spraberry wells were shut in for approximately nine months while gas pipelines and plants were built. The price of oil continued rising to \$2.90 a barrel by January 1954.

Seismic exploration became widespread and in 1955 a total of 382 new oil and gas fields were discovered and nearly 6,000 wells were drilled in the Permian Basin.

Multiple pay zones were opened in the Spraberry Trend Area due to formation fracturing techniques.

Exploration and production of natural gas became dominant in the late '50s and early '60s. The development of the Cayanosa gas field and others in Pecos County and the Delaware Basin also yielded large quantities of carbon dioxide.

Wells drilled in the Cayanosa field from 1959 to '63 illustrated the existence of multiple pay zones.

In December 1959 the May & William #1 R.J. Merrick was completed at 4820 feet in the Cayanosa Delaware Sand. In February 1963 Mobil's #1 E.P. Sibley "B" was completed in both the Cayanosa Devonian (11,760 feet to 11,852 feet) and the Cayanosa Ellenburger (15,000 feet to 15,705 feet).

The following month a well was completed in the Cayanosa Wolfcamp (10,242 feet to 10,275 feet) and three years later the Cayanosa Mississippian was indicated between 10,475 feet and 10,618 feet.

Additional gas fields in the Permian Basin were discovered in the 1970s as intra- and interstate pipelines competed over supplies and prices of natural gas. Higher foreign crude prices in 1973 launched yet another boom.

The Permian Basin Petroleum Museum opened in 1975 with President Gerald Ford officiating. It was a time when communities and oil-related industries throughout the basin enjoyed expansion, increased profits, and unconditional expectations.

In the years since, the Yates, Spraberry and Cayanosa fields have been the proving grounds for production techniques such as field-wide pressure testing, infill drilling and CO₂ flooding. Their produced oil and gas volumes are enormous; nearly five years ago the Yates field flowed its billionth barrel of oil.

The Permian Basin may never again see the likes of these fields, but they remain a vital part of Midland and the Permian Basin's current and future economy. Their contributions are forever noted in petroleum history books and reflected in the streets of Midland.

Market dictates supply-store changes

By Mella McEwen
Staff writer

Give the customer what he wants is a prime rule of commerce, and oil-field supply stores are making moves to do just.

"The market has tended to dictate that we carry more things directly involved with environmental concerns," said Jim Fitzgerald, senior vice president with National Oilwell in Houston.

"While product emphasis varies customer to customer, environmental concerns involve everyone. In some cases, that's necessitated duplicate inventories, which is an expense to the supply store distribution chain," he added.

In addition, Fitzgerald said, supply stores are becoming more computerized thanks to Electronic Data Interchange.

Customers, he said, are increasingly wanting computer-generated reports detailing buying activity, which products they're buying

and which vendors make certain fittings.

"We're probably becoming more full-service, and documenting information system for our customers, an extension of their systems."

Yet another trend Fitzgerald identified is that customers have begun concentrating their business among fewer supply stores.

What is of as much concern to supply stores as a decline in activity is the continuing fall in domestic production and producing wells, Fitzgerald said.

"Of more concern to us is not the drilling rig count but the well service rig count, which has dropped dramatically and continues to do so. That means required maintenance and repair work is not being done and those wells will ultimately be shut in."

Fitzgerald said the impact of the declining oil industry on oil-field supply stores is apparent. He estimated that, at the height of the

last oil boom in 1981, when the Baker Hughes national rig count was 4,000, there were two to three rigs for each supply store. Now, he said, there are four or five supply stores for each rig running.

And those supply stores that haven't shut their doors are coping with cutbacks, strong management or mergers, he said.

Fitzgerald's employer is the product of a 1987 merger between National Supply Co. and Oilwell Supply Co.

Fitzgerald said he is not necessarily seeing a lot of formal mergers of supply stores, but rather one store will buy another's inventory and take over the location, with the two operating under a combination of both names.

The key to coping with the economy, he said, "is a matter of managing the business in good and bad times, reducing investments in inventory and managing expenses to the market level."

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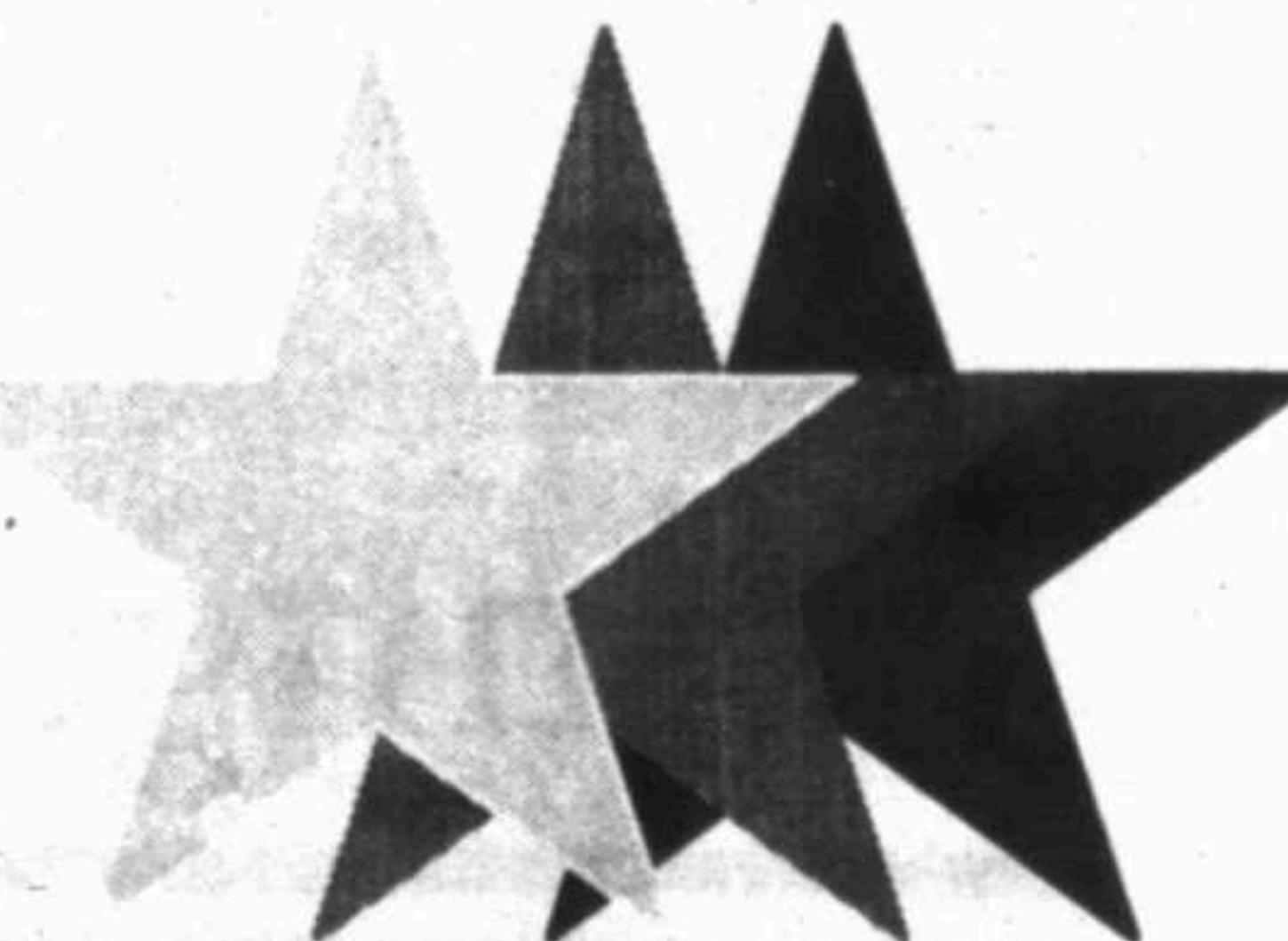
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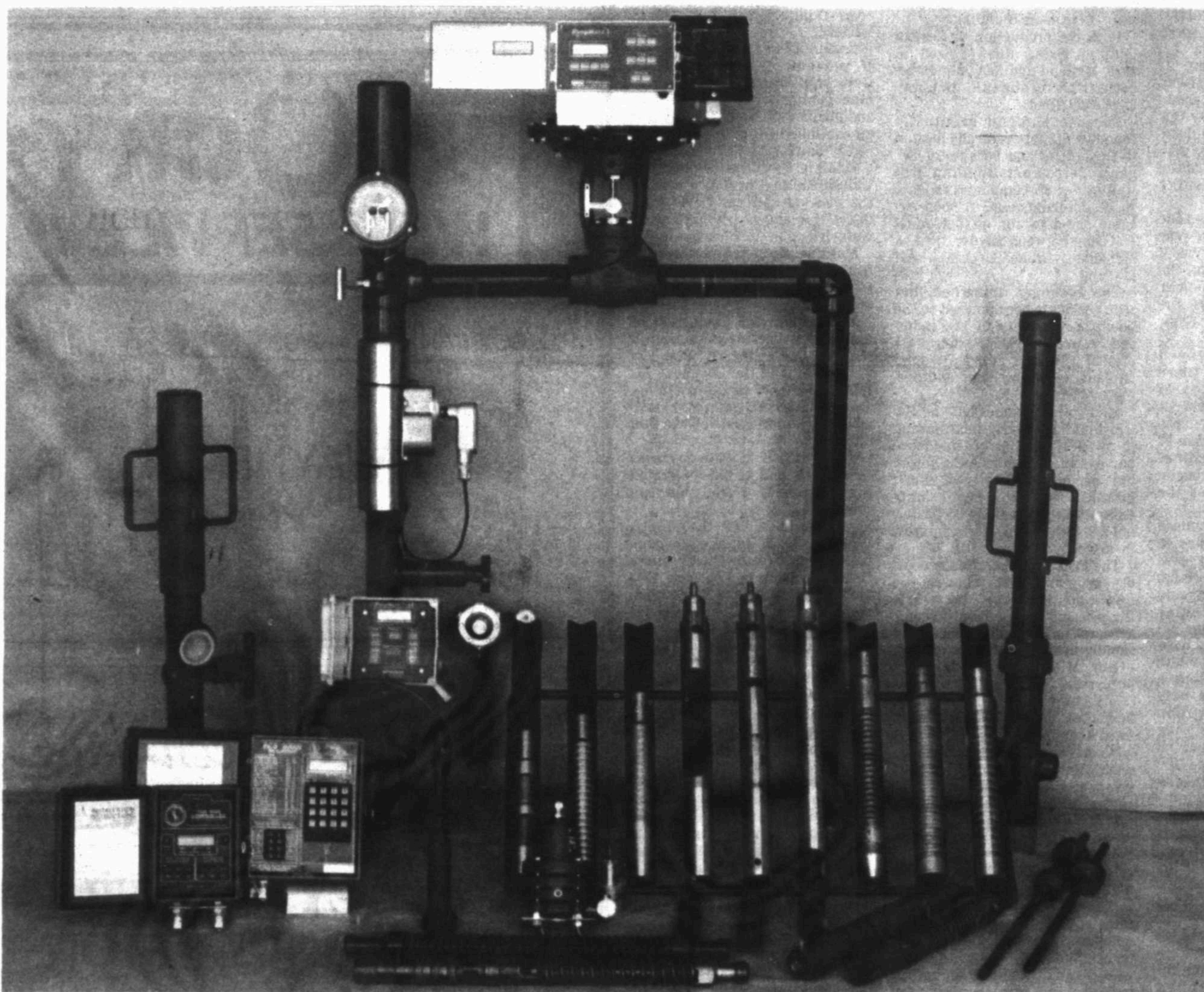
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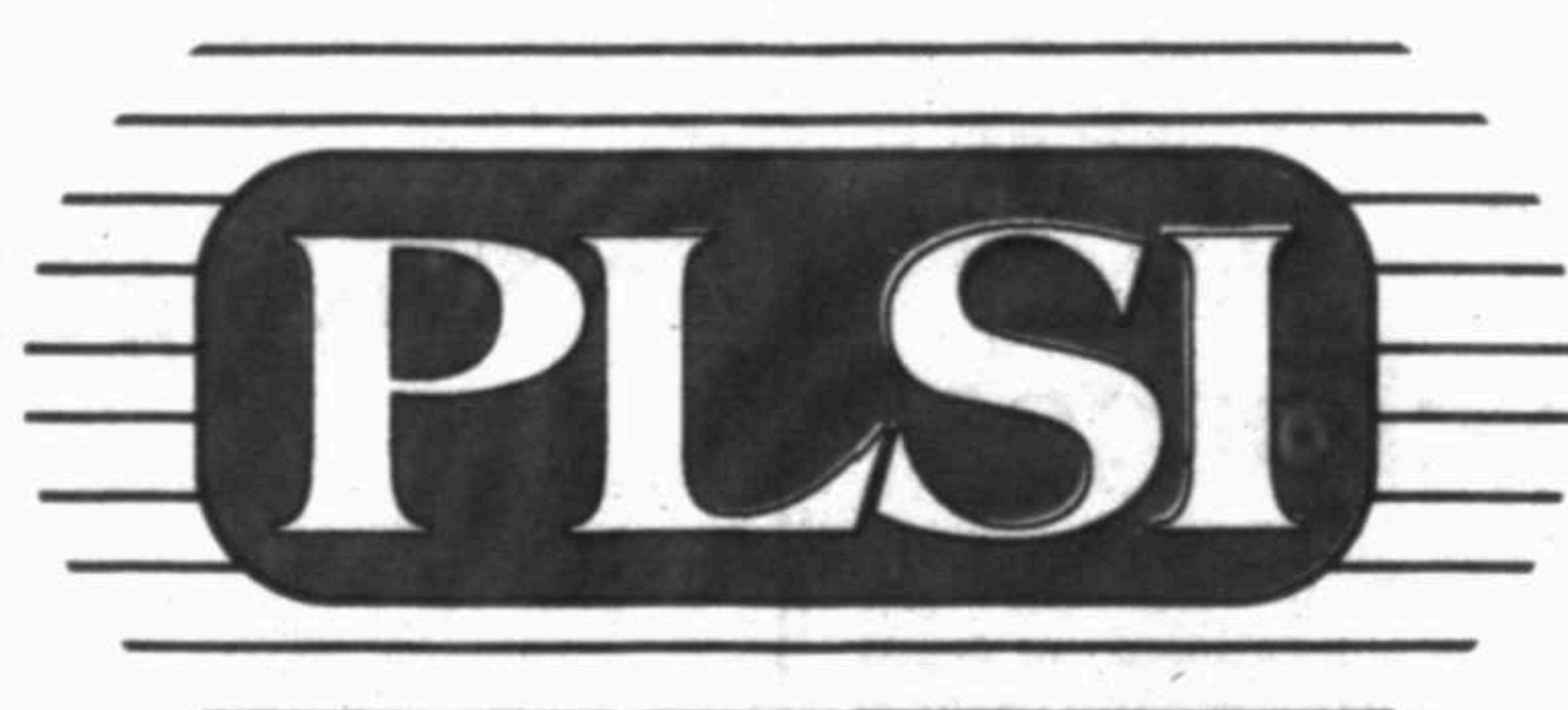
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INSIDE



Teamwork

Santa Fe Energy and Texas Tech University, above, have formed a coalition to help transfer technology from the school level to the industry level. Santa Fe provided 1,800 feet of cores to Texas Tech for use by graduate students. In return, Santa Fe will get a detailed look at the depositional environments and rock history of the Reeves field.

Please see RESEARCH/34CC

Stimulation

In the face of hard times in the oil and gas industry, those in the stimulation industry devoted funds to research and marketing. The result is the development of a variety of new fluids, proppants and services that the industry is aggressively marketing in various ways, with success.

Please see STIMULATION/36CC

Microbiology

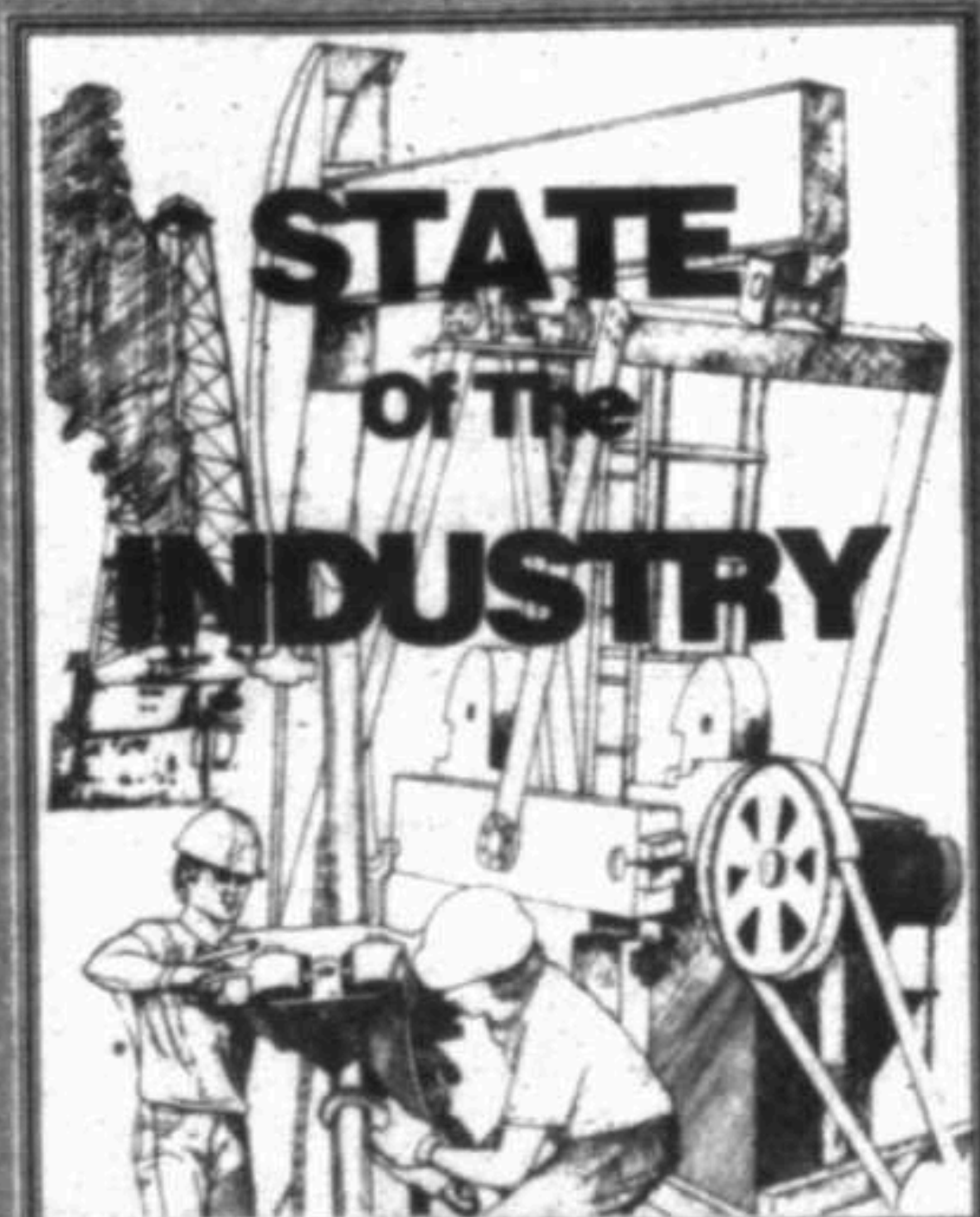
The use of microbes to increase oil recovery, dissolve paraffins and neutralize soil contamination is rapidly growing in the oil industry. Several companies, including several based in the Permian Basin, are working to develop and provide microbial products and services. The use of microbes, while around for many years, is gaining in popularity thanks to concern about the environment and operational cost savings.

Please see MICROBES/42CC

Dependent

While chemical dependency is out for oilpatch workers, the oilpatch itself is still highly dependent on chemicals to keep wells clean and free from paraffin, scale and corrosion. To meet the need the oilfield chemical industry is continually changing to meet new challenges with new products.

Please see CHEMICAL/47CC



Technology

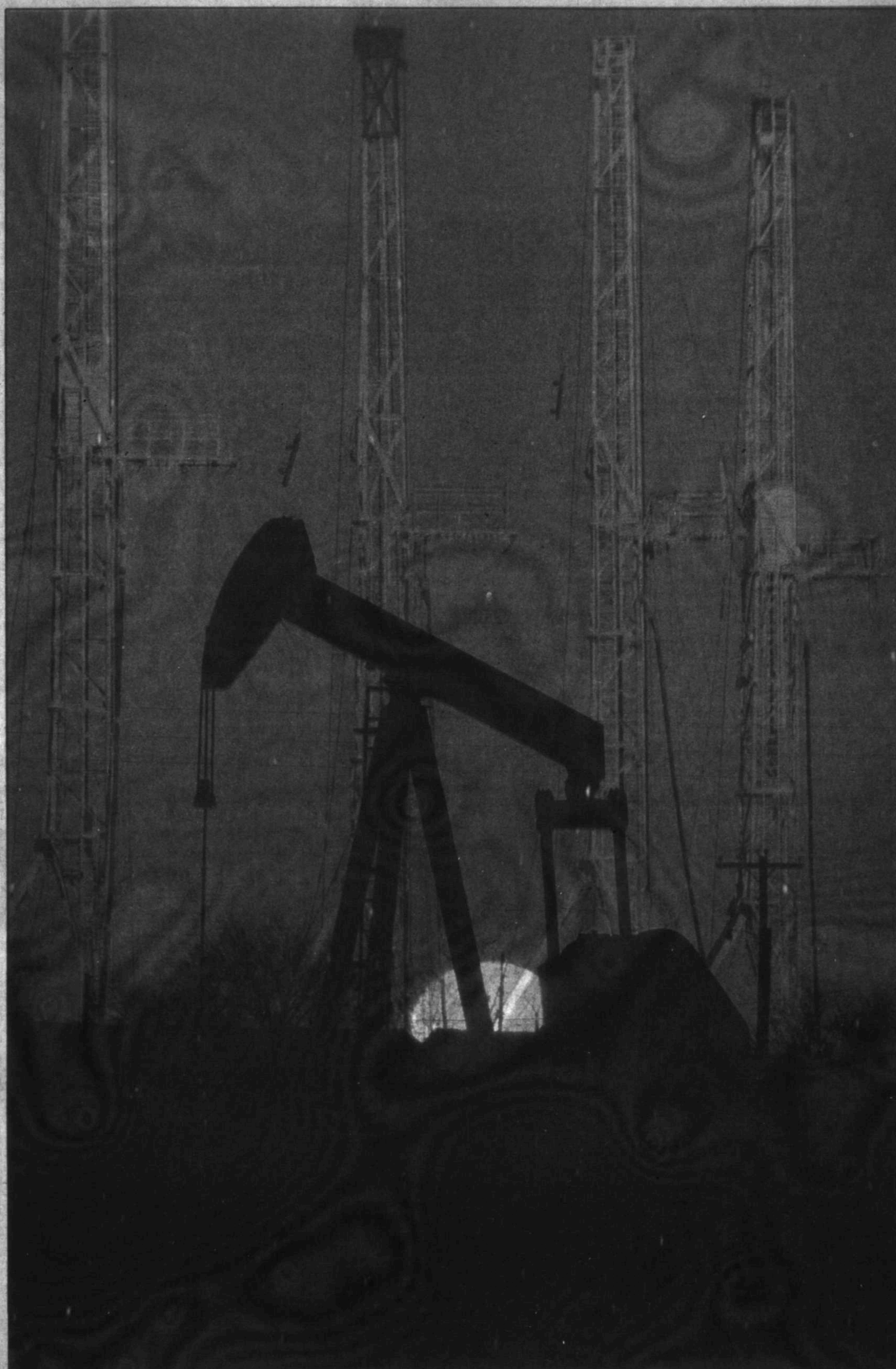
As oil fields mature it takes more attention and technology to keep them economically viable, and Permian Basin fields are likely to see more of both in the coming years.

They will get more attention by being placed in the hands of independents, who have a knack for squeezing more oil from a formation. At the same time, the condition of reservoirs and economics will dictate that technology carry the day.

While much of the technology that will make a difference is now being sent to the field, much of it is on the drawing board and in the labs. Much of it, such as Department of Energy reservoir studies is yet to come.

For other state of the industry news see the following sections.

- SECTION DDChanges
- SECTION EENatural gas
- SECTION FFLocal



Photos: Curt Wilcott

Photo compositor: Curt Wilcott

This composite photo of a pumpjack, super imposed over standing rigs in an Odessa yard is a reminder of the importance drilling and production technology will be expected to play in the future of the Basin.

Age of Technology

By John Paul Pitts
Business/Oil editor

The more the Permian Basin oil province matures the more technology plays into its future.

Fortunately, over the years as one form of recovery technology has played out its hand in the Basin oil industry, a new one stepped forward to keep the game going. In the years to come the key will be to find, technology that will permit oil companies to squeeze more oil out of known reservoirs, to find pockets of by-passed oil and to produce the oil in place more economically.

The technology will involve super sophisticated and expensive techniques such as 3-D seismic to find new prospects inside and outside of fields. It will also involve finding new applications for old technology such as horizontal drilling. It may be as inexpensive and simple external tank gauge manufactured by a Big Spring firm, that allows pumpers to gauge tanks by sight. Or, it could involve a new strain of petroleum-eating microbes for cleaning wells and thinning oil.

■ Analysis

Primarily, it will be a number of varied technologies all working in concert with one another to find and produce more oil cheaper. But not only will new technology be making the difference, technology transfer as well will be an important ingredient, says Randy Parker, deputy assistant secretary for fossil energy for the Department of Energy (DOE).

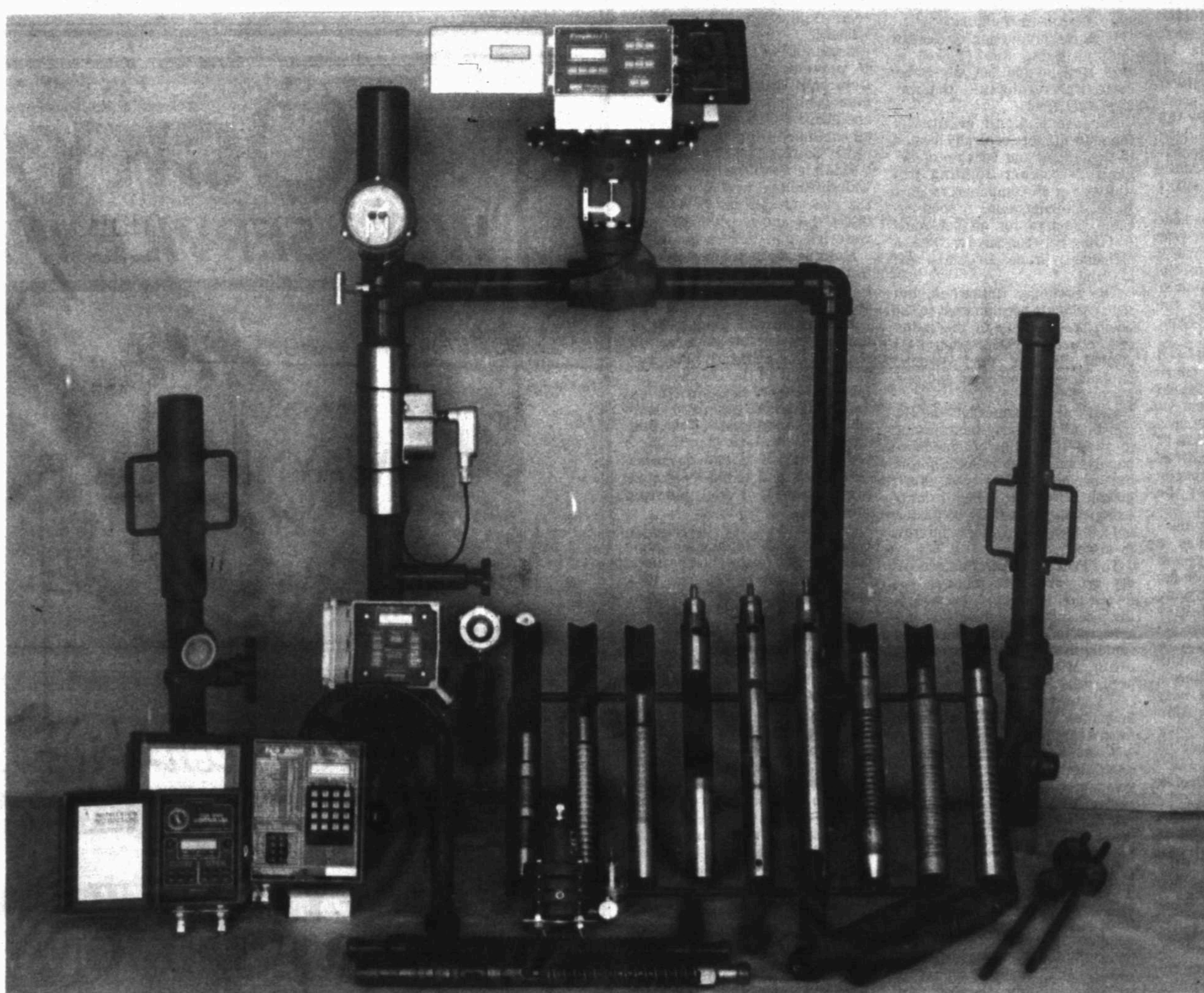
"Technology transfer," says Parker, "is basically an education process. It is taking ready technology off the shelf and applying it to the field, and letting people that can use it know about it."

In the past, technology has been pretty much a "close-to-the-chest," and a "do-it-yourself" process, but in the age of technology transfer now emerging communication, sharing and cooperation will become the new order, he noted.

Please see TECH/46CC

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The use of micro-organisms in the oil and gas industry. The result of a variety of products and services is a new industry in various ways. Please see

Depen

While the oil and gas industry is out for oil, it is also out for the patch itself. The result of a variety of products and services is a new industry in various ways. Please see



Techn

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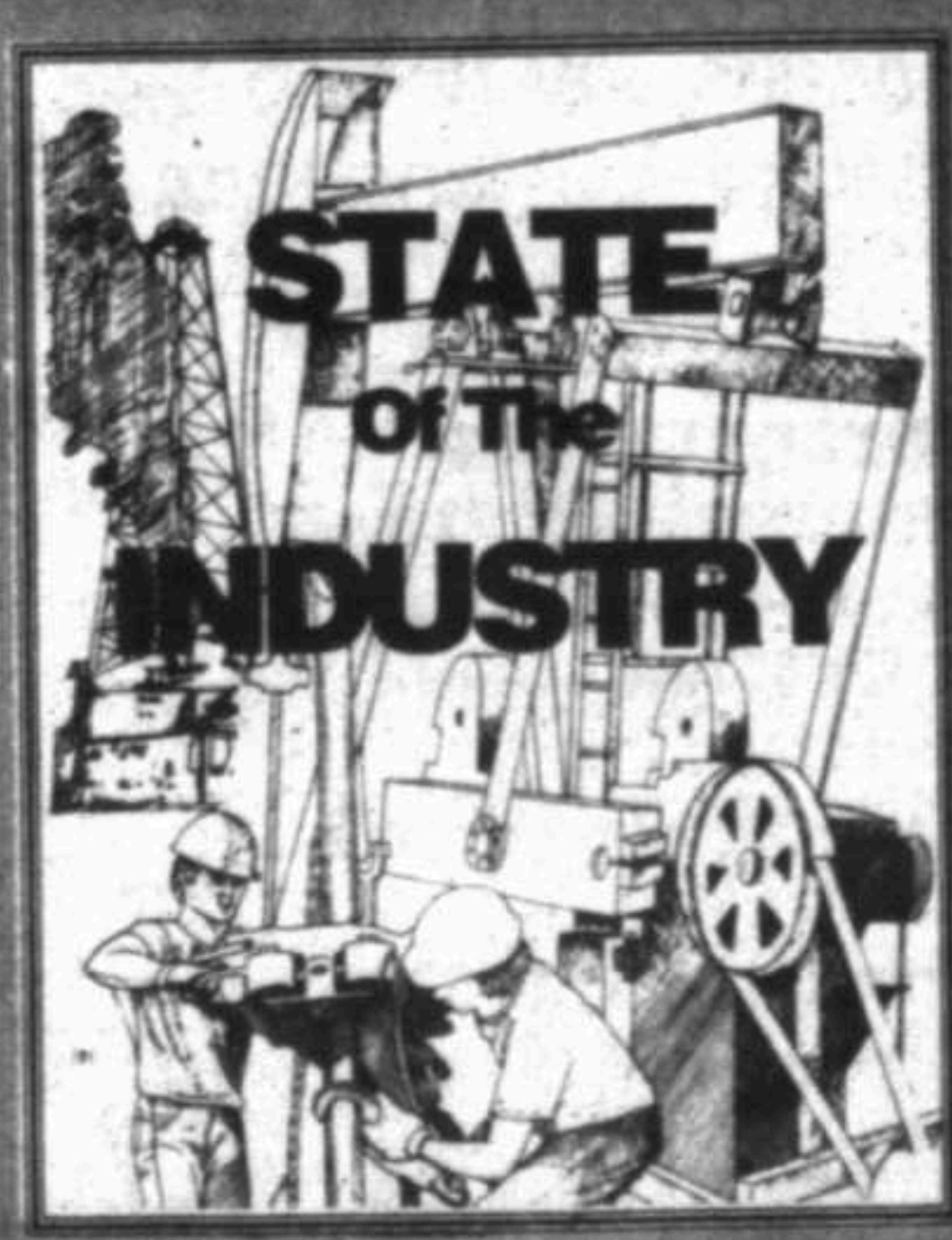
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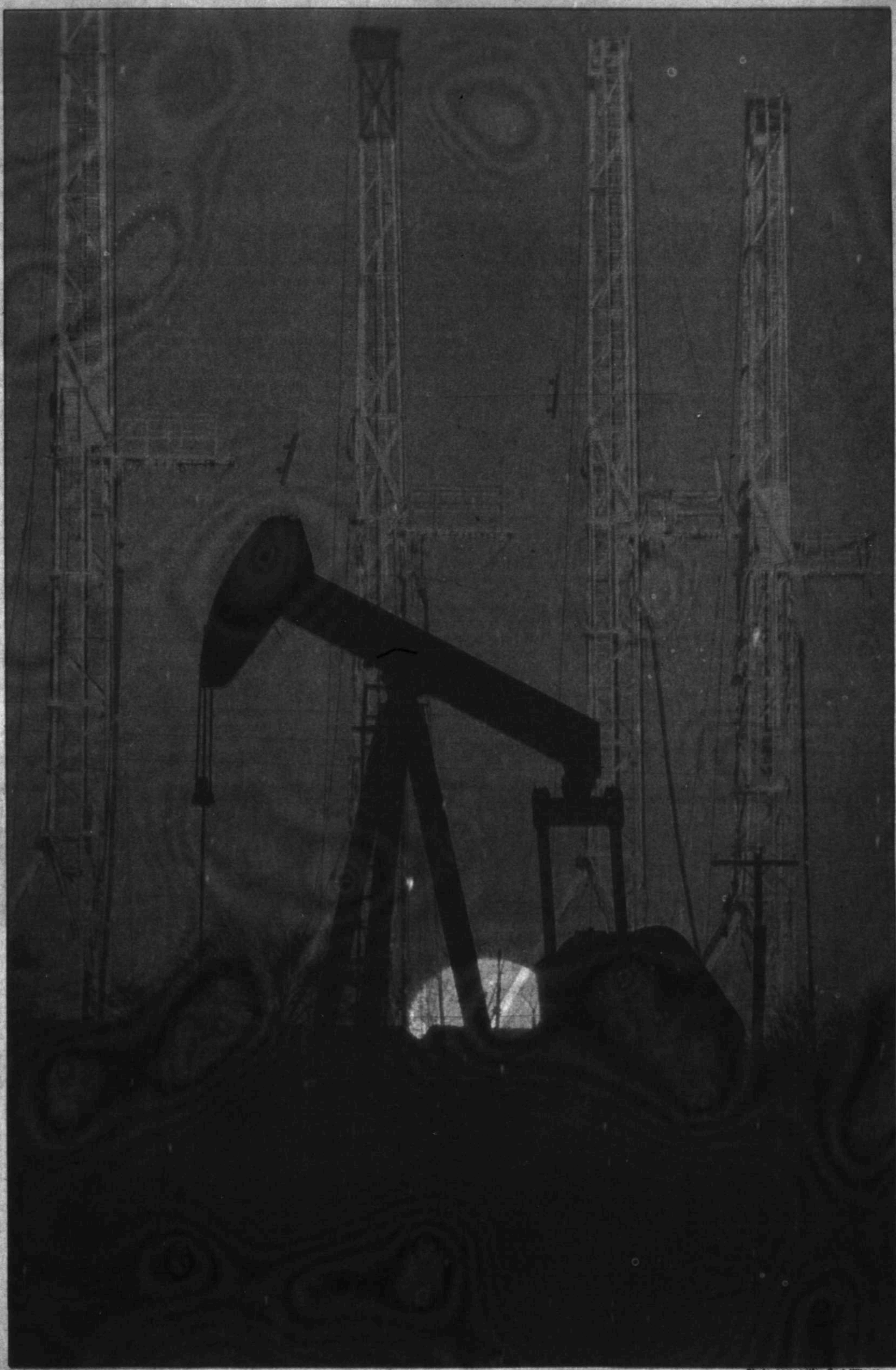
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Please see TECH/46CC



Gaining independent information

A Texas Tech team of students work together, far left, to acquire sample and log data that can be transferred back to the oil industry. Core samples are laid out in trays for examination, center. An electron microscope provides a closer look, and finally information is gleaned from electric logs.

Tech students do core research for Santa Fe Energy

■ Industry, academic partnership provides new knowledge on basin logs.

By Johnnie Montgomery

Forming coalitions and partnerships to transfer technology throughout the industry will become a prevalent activity in future years, and a partnership between Texas Tech University and Santa Fe Energy is a good example of how it will work.

In 1991, Santa Fe Energy donated 1,800 feet of nearly perfect cores from 120 wells in the Reeves Field in Yoakum and Terry counties to Texas Tech for the purpose of graduate studies.

Tim Parker, Santa Fe's division exploration manager, said there was a symbiotic relationship between the company and the university.

"We thought this would be a nice thesis project for a graduate student to undertake. We knew we'd be getting a good detailed look at the depositional environments and subsequent rock history for the Reeves area."

The initial project involved in

connection with Tech was the analysis of cores from the lower San Andres (Permian) formation, in the old Reeves Field in the extreme southeastern part of Yoakum County, and a small part of northeastern Terry County, unitized in 1965.

Parker said Santa Fe talked to several colleges about the project, but that Texas Tech had students immediately qualified to do the work and eager to use the cores in various graduate studies.

"Our plans involved three separate stages. First we did an initial geologic evaluation of the cores. Second we did conventional and special core analyses, and lastly, we needed a more detailed geologic interpretation. We felt that was the appropriate portion of the project for a graduate student to undertake."

Tech graduate student Markus Thomerson said the university is eager to play just such a role in the industry.

"In the Permian Basin right now, we need to concentrate on solving problems for the independent operator whose money is going to go for drilling and operations."

He said most of the work done stresses applications rather than

theory.

"We have our rocket scientists, but we deal with practical problems too. With more and more majors pulling out of the Permian Basin we have to help the people in the field who are still going to be around, and may not have the funds to do their own research the way the majors have."

In addressing the recurring challenges and concerns of Permian Basin operators, Tech students use computers and cutting edge technology.

Two of Thomerson's recent projects concern logging and log interpretation problems — one with Director George Asquith in Eddy County, and one in Culberson County. According to his research proposal abstract, the Brushy Canyon Formation in the Hat Mesa Field in Lea County has for several years been an important exploration target in the Delaware Basin.

However, low permeabilities have resulted in high saturations of immovable oil in water-productive as well as oil-productive formations in its fine-grained reservoirs that makes logging difficult.

Thomerson uses cross-plotting techniques to discriminate between productive and non-productive

intervals and define critical values of permeabilities, porosity and water saturation.

Another logging problem exists in the Screwbean and Geraldine fields in Culberson County, as well as the Bell Canyon and Cherry Canyon. This also has to do with the presence of residual oil hindering log interpretation.

"Residual oil can be handled if you know it's there," Thomerson said. "We're coming up with parameters to overcome interpretation problems."

Another graduate student, Souvik Saha, Ph.D. candidate, has come up with a method to determine more accurate water saturations and reserve estimations using cores, dielectric logs and statistical analysis on the Gorieta-Clearfork dolomite of Monahans Field, Ward County.

To carry out the extensive analyses and comparisons involved in the tests, Souvik developed software utilizing massive parallel processing on a Sun workstation with the equivalent of 2,000 central processing units (CPUs) in tandem.

Steven Henderson, master's candidate, is working on deposition, diagenesis, and log responses from the Lower San Andres (Permian)

formation of the Reeves Field in Yoakum County.

Henderson has undertaken a three-stage project in which he characterized an overview of the diagenetic overprint and how those processes have affected productivity in the field.

The research was begun in the summer of 1991, and will be finished this year. Principal to the study are the cores, logs, and data supplied by Santa Fe, which covers 90 percent of the field.

He first characterized depositional environments, or layered deposits, and mapped their occurrence throughout the field.

Second he determined the sequence of diagenesis and its effects on the development/occlusion and preservation of porosity.

The third stage is the examination, description and computer-mapping of the field's depositional environments, using the data provided by logs and cores available from the field, in order to project porosity and permeability trends where rock data is not available.

Using data from Henderson's work, Corinne Danielli's post-doctoral study on the flow patterns of the hydrocarbons in the Reeves field deals with porosity, permeability, pore size and connectivity,

grain and crystal size, and other factors affecting fluid movements.

Ms. Danielli's studies utilize computer spreadsheets based on detailed numerical descriptions of the core to determine flow patterns and compare lithofacies layering.

Ms. Danielli expects these flow units to reflect variations within individual lithofacies, thus giving a finer-scale model of fluid movements in secondary recoveries, and improving economic predictions, reservoir development, and long-term profitability of the field.

Third on the tier of study based on the Reeves Field is a project begun in May by Mark Vining, computerizing the geological statistics of the previous studies.

This study is a highly theoretical attempt at using computerized reservoir simulation based on the results of Danielli's investigations to predict field production.

Muhsin Eren, Ph.D. candidate, is also funded by Santa Fe Energy.

Santa Fe has supplied log and core data from 10 wells. Eren's research involves the diagenesis and petrophysical properties of the Atoka carbonate banks in the area, and methods of determining hydrocarbon and water-bearing zones from log data.

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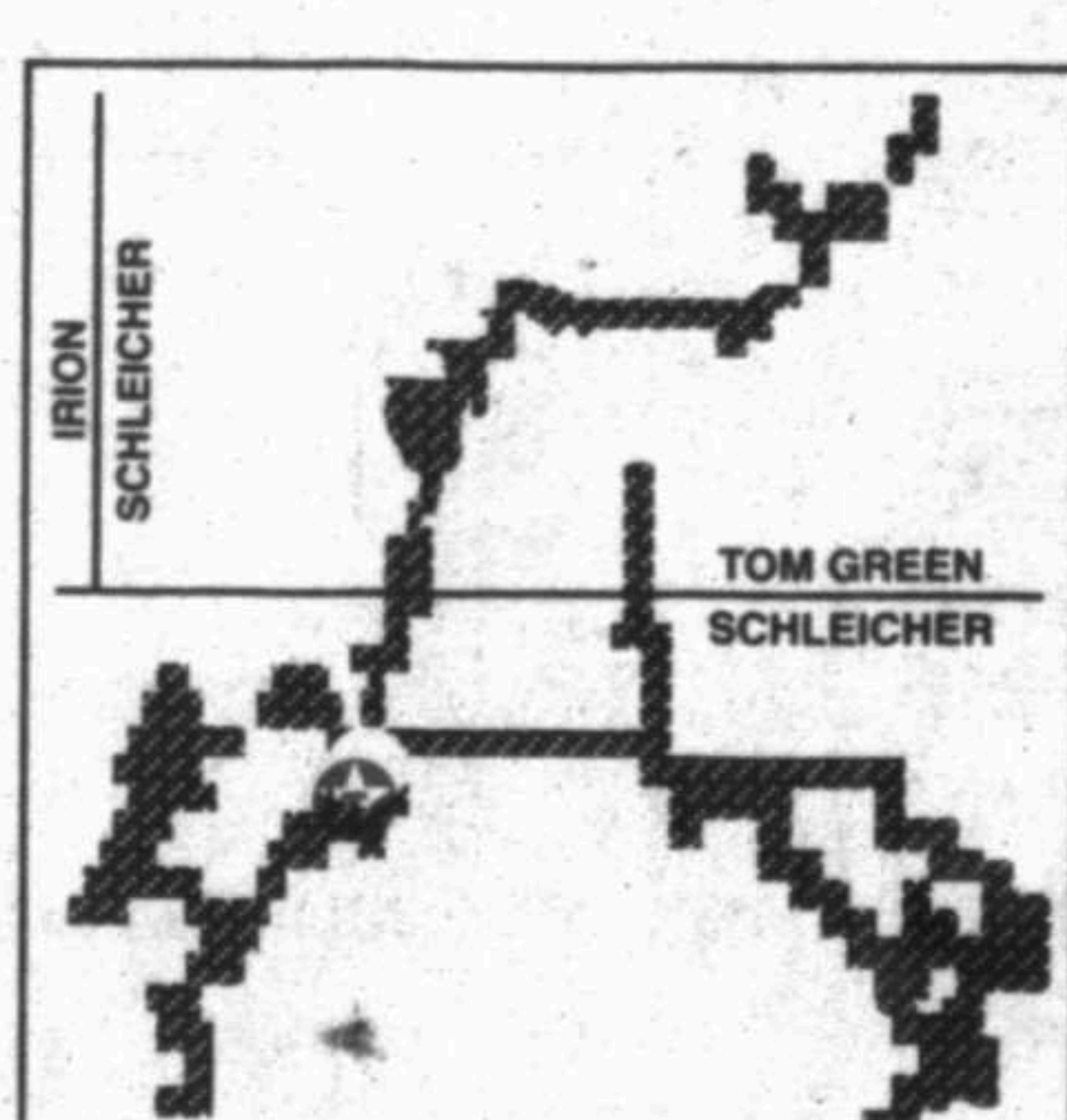
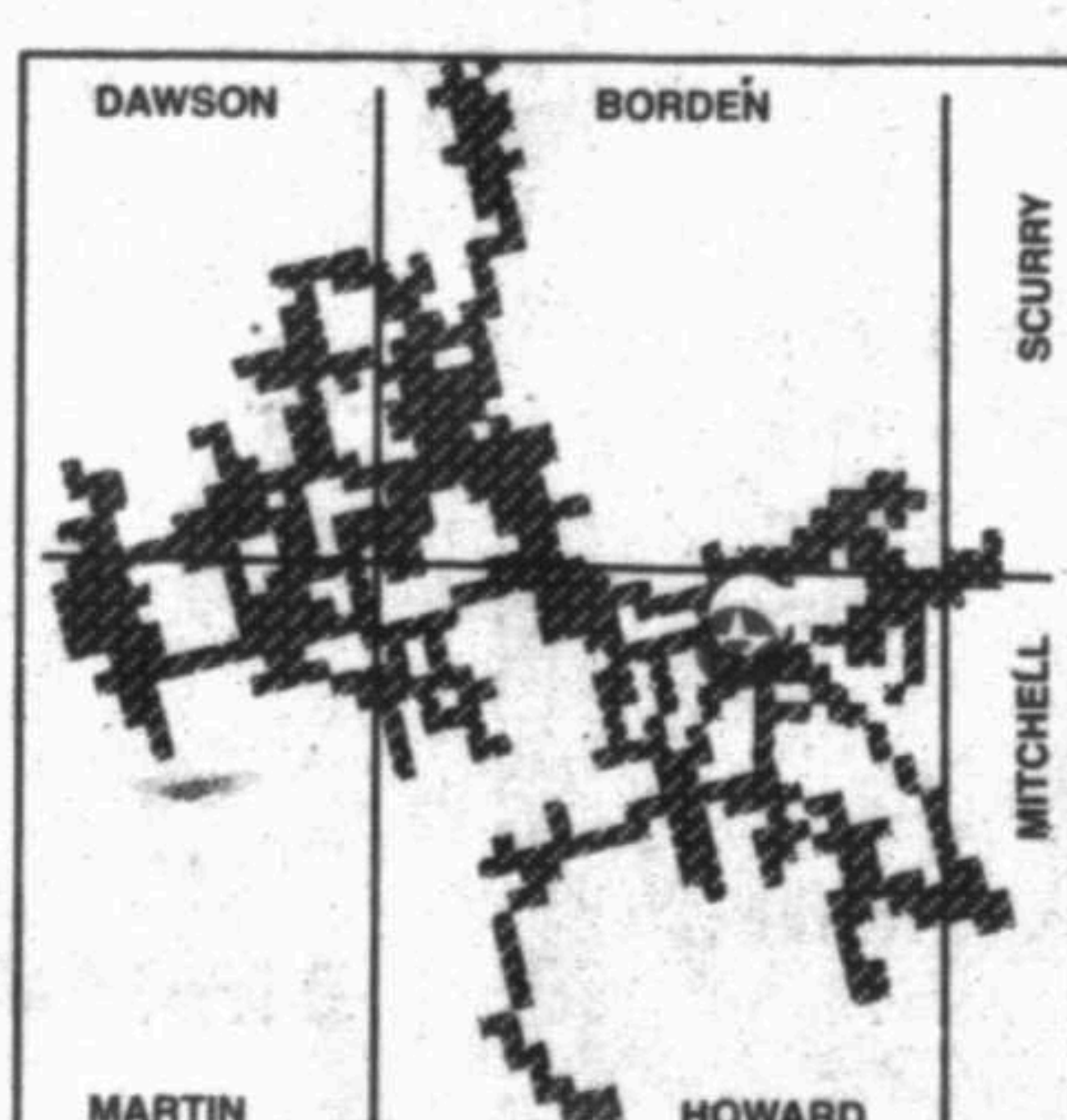
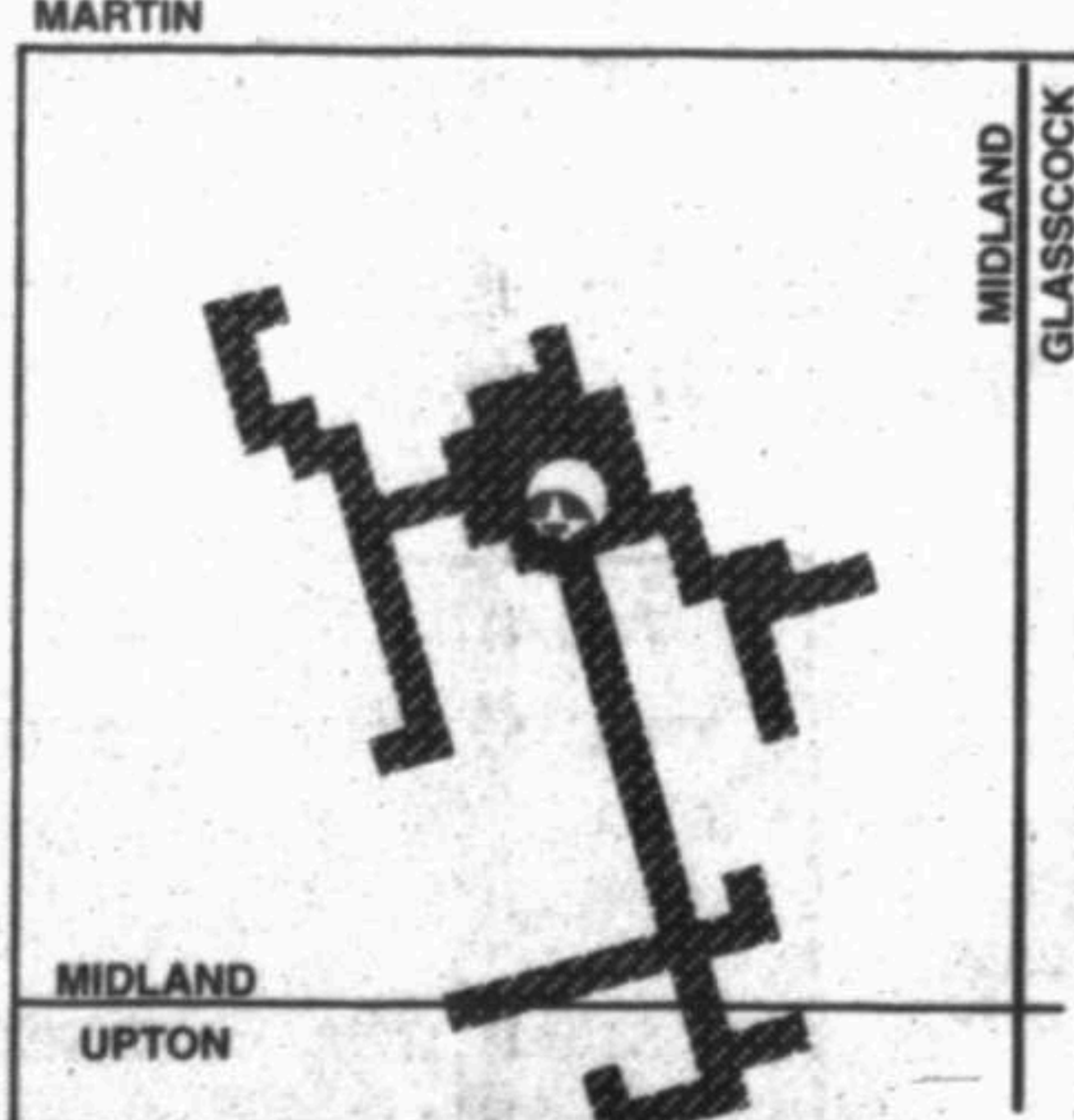
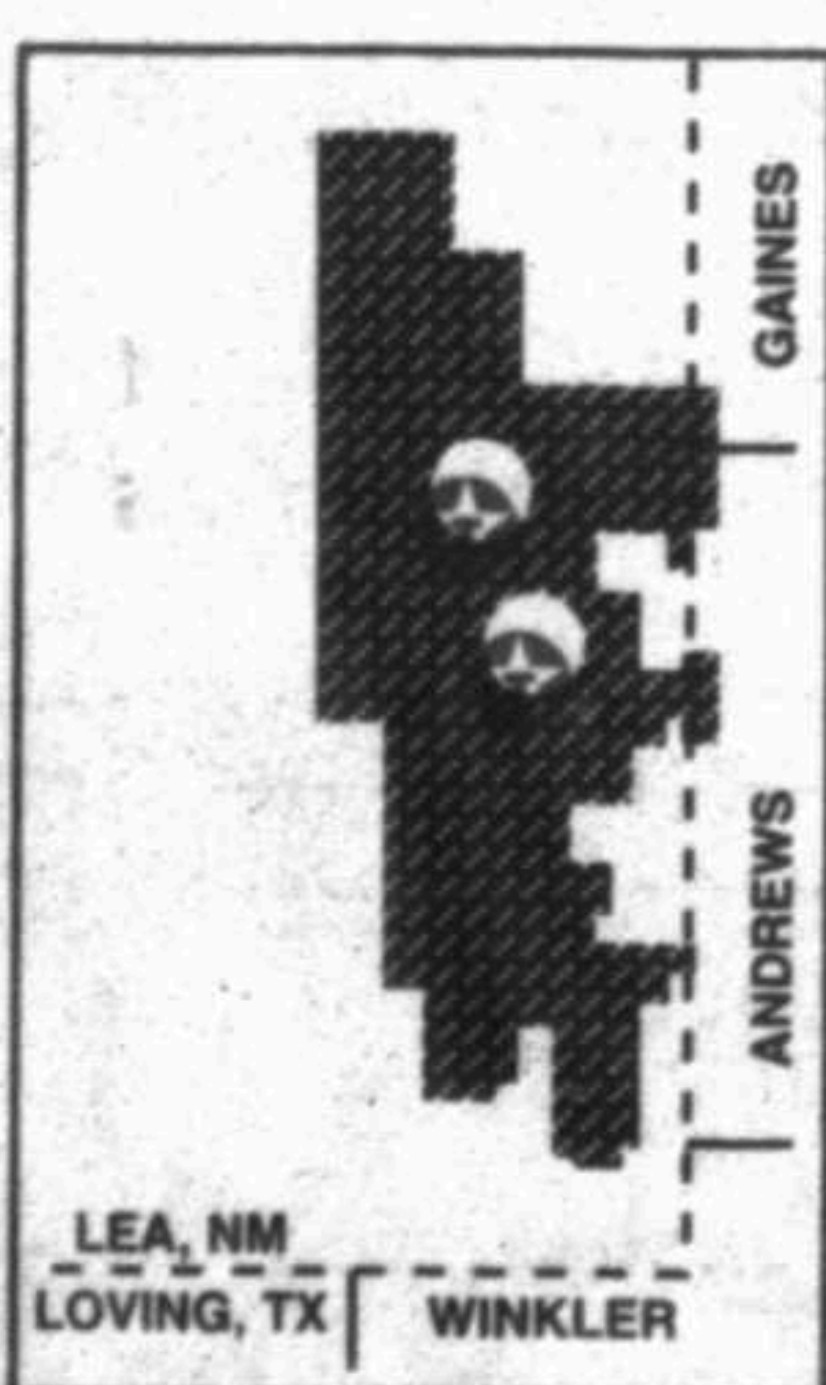
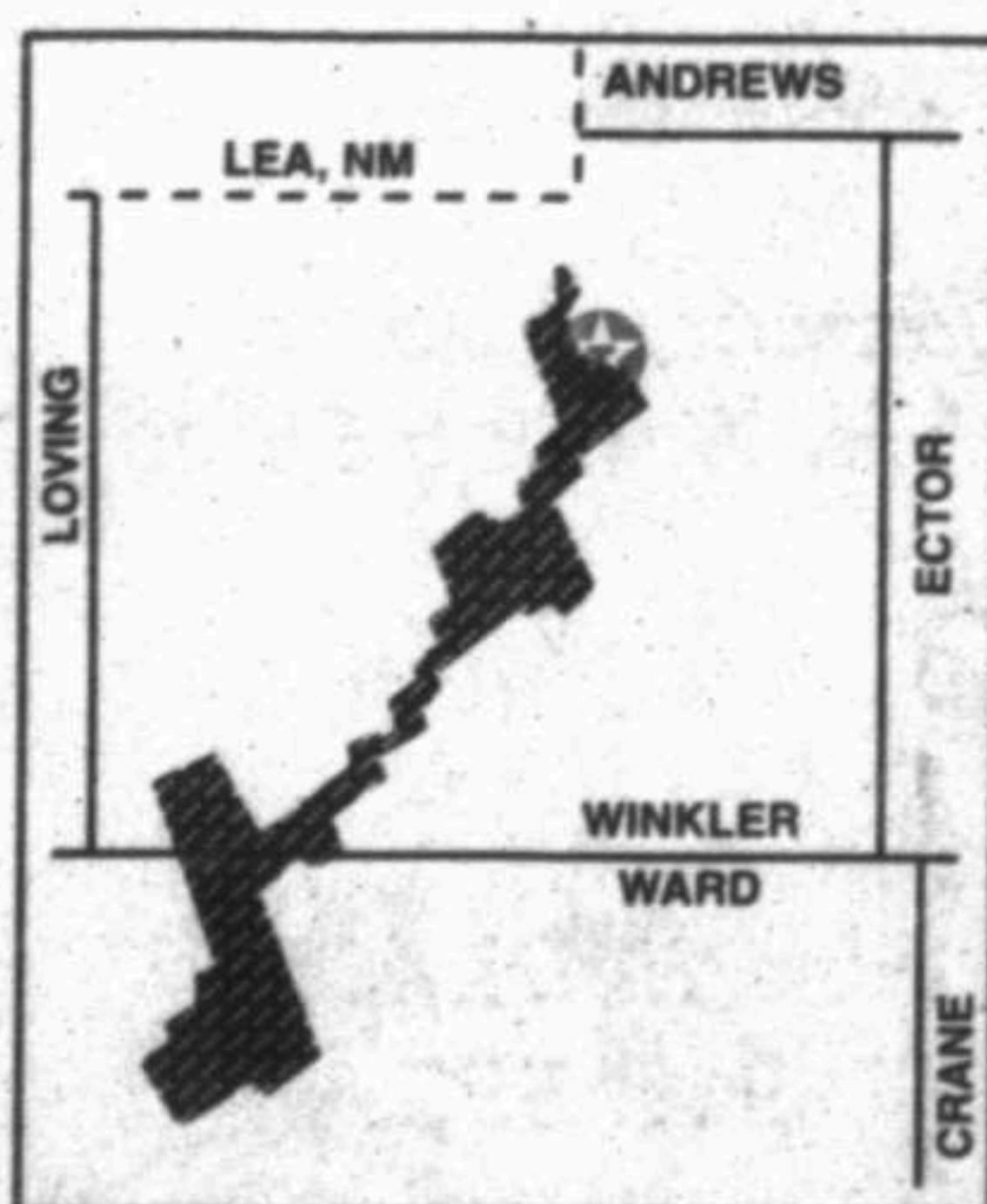
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PRODUCTION TECHNOLOGY**Keystone may give more production**By Mella McEwen
Staff writer

A group of producers are trying a new production method in the Keystone Ellenburger field of Winkler County that could, if successful, sharply increase oil and gas production in the field. Since winning permission from the Texas Railroad Commission to try the new method, one of the producers, Chevron U.S.A. Inc., has traded its holdings in the Keystone to Pennzoil, part of a \$1.2 billion oilfields for stock swap.

Engineers for Chevron and Bass Enterprises Production Co. plan to produce large amounts of formation water from the reservoir, which they say would decrease reservoir pressure and lead to the recovery of additional oil and gas from the field.

Estimates for additional recovery range from 450 to 480 billion cubic feet of natural gas and from six to 42 million barrels of oil.

The Keystone Ellenburger is an older field comprised of a large gas cap and oil column and a partial water drive. As the field has been produced, water has updrifted to the top and there is now a thin oil column and a large gas cap.

Engineers hope that by rapidly producing the formation water, the gas cap will be allowed to expand and re-establish contact with and mobilize the oil and gas trapped below the water.

Hearings into the matter began early this year when Arch Petroleum, which has held a stake in the field since 1989 and currently holds an aggregate interest of between 20 and 25 percent of the total field, asked for allowables to incorporate its testing procedures.

The commission withheld permission and held a general hearing in February and a second, larger hearing, in April.

In August the commission issued a final order amending the field rules in the Keystone Ellenburger.

The final order establishes a bonus above the existing oil and gas allowables of one-half Mcf of natural gas per barrel of water produced from the Ellenburger formation.

Arch, which holds 100 percent interest in and operates 14 wells in the field, also holds a stake in the unit Chevron recently traded to Pennzoil. The company is currently installing pumps and implementing the infrastructure needed to follow the final order.

The company has established an initial goal of producing 20,000 to 30,000 barrels of water per day, which will allow the company to produce 10,000 to 15,000 Mcf in addition to the crude and above existing allowables.

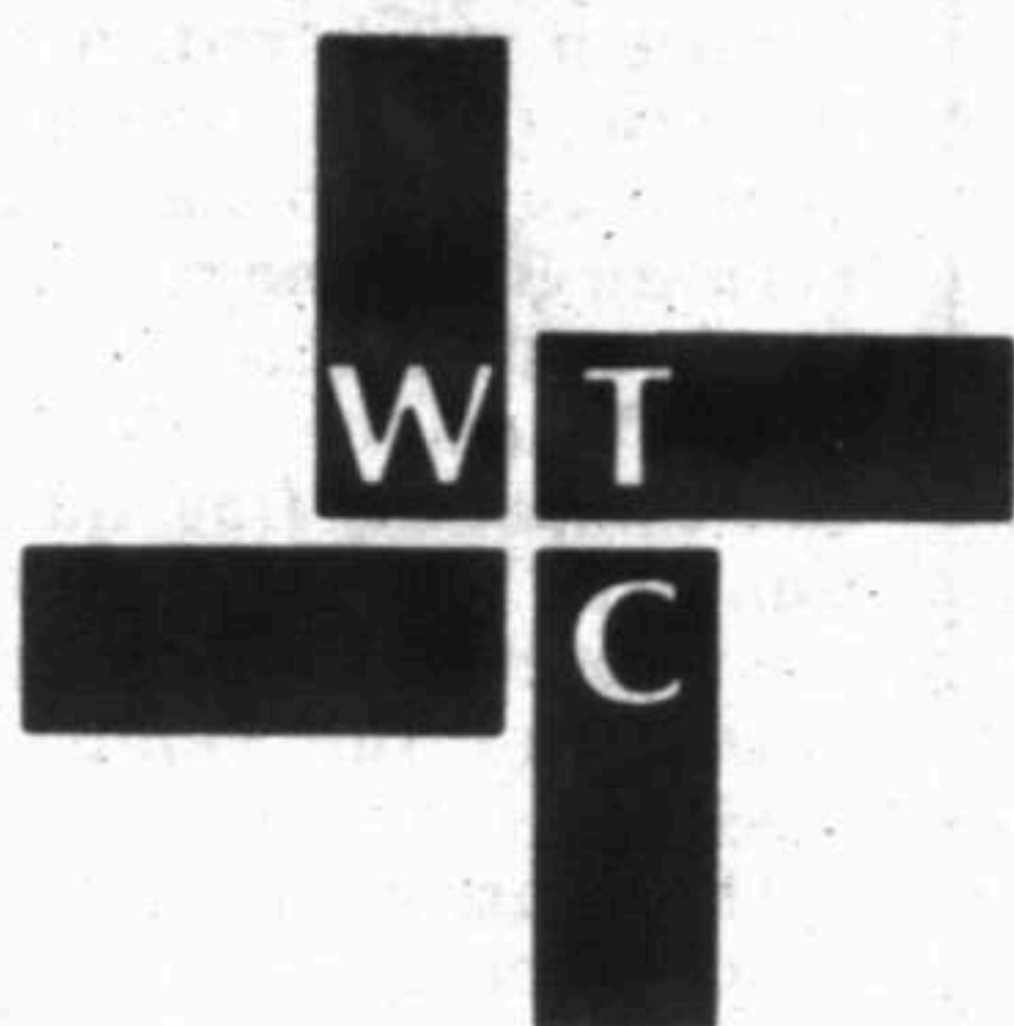
Producers in the field say it is too early to tell what the results of this new method will be, and there is no guarantee it will be as successful as hoped.

In addition, the impact on the producers' bottom lines won't be known until they know the cost of producing the formation water.

But if the engineers are correct, this new production method could mean a sizable increase in reserves for the companies involved.

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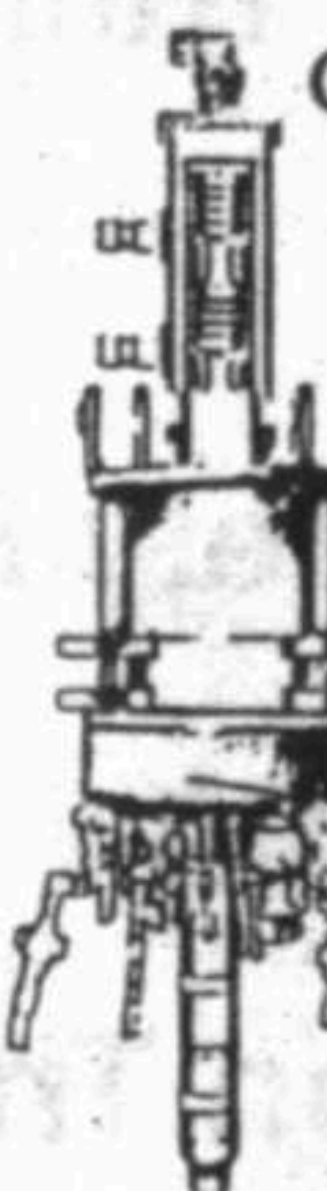
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Greg Long operates a downhole blender. Aggressiveness in research and development and in marketing new products has helped the stimulation industry.

Research and marketing boost stimulation firms

Technology and promotion help stimulation industry through hard times.

By John Paul Pitts
Business/Oil editor

In a downturn, research and development funds and advertising funds are often the first to be cut, but in the case of the stimulation industry they may have saved the day.

Doing with less work has always meant taking a fresh look at practices, and for the stimulation industry it meant coming up with new fluids, proppants and services that could be marketed to operators — basically functions of research and advertising.

While there were not as many wells being drilled, the existing wells are still there and producing, and companies knew stimulation was a valid means of increasing production. So, for the stimulation business it has been basically a

matter of finding newer and better ways to stimulate wells.

Operating with the knowledge that operators will not part with a buck during hard times unless there is a visible return, stimulation companies have become highly competitive in their search for cost-effective products and services that will bump production or solve downhole problems, resulting in a flush of new technology in the field.

"I would say that we have seen a significant upturn in stimulation technology, during the downturn," says Lew Niewoehner, district manager for Smith Energy Services Inc.

Promotion is another item that normally gets cut during downturn, but again it may have paid off for stimulation companies. Once new technology was proven, the pumping companies wasted no time in promoting them to the customer.

BJ has been aggressive in promoting its SpectraFrac, a patented fluid which is said to

offer better conductivity and better return of fluid. DS has achieved new business with its FoamMat, which forms foam banks to divert acid into the right zones.

One of the most aggressive promoters has been Petroplex Acidizers of Midland which plugs its proprietary solvent Petro-Sol X-25, with an advertising blitz that included newspaper, TV and billboards.

One ad compared the super solvent — which is designed to tackle many downhole problems — to V-8 juice, and other solvents to ordinary tomato juice. "Gee, I could have had Petrol-Sol X-25."

President Larry Foster says the advertising campaign paid off and actually expanded during the downturn.

Smith Energy, on the other hand, has managed to keep many of its units in the field by pushing its ability to custom design fracs, with more predictable results using computers, mini-fracs and in-house laboratory analysis of core samples.

Techniques of oil field stimulation are changing

By John Paul Pitts
Business/Oil editor

What's new in stimulation? Oil field stimulation is a business that deals with pumping fluids down wells to make more oil. And from that simple objective a multitude of technological prospects emerges.

"Stimulation is becoming more and more of an 'exact science,'" says George Resley, president of CO₂ Inc. which markets the gas to stimulation companies. "Modeling design parameters is making stimulation very exact, with predictable results."

Some of the products and services to evolve in the past three to four years are:

■ **Spectra Frac** — Developed by company researchers of BJ Services researchers, the patented fluid is said to provide better conductivity and better viscosity to open fractures better and bring back more of the fluid to the service once the fractures are open.

Since it was introduced in 1990, the frac fluid has been used in more than 300 completions in the Permian Basin and is now used in 75 percent of BJ Services frac work. When the company's new CO₂ compatible frac fluid Quantum Frac debuts, the two fluids are expected to account for 95 percent of the company frac business.

The heart of the new Spectra Frac is a breaking system invented by BJ that will activate when the pH of fluid changes. The breaking system brings back more of the fluid to the surface while opening fractures better. A spinoff of this product for remedial work is an enzyme breaker that is mixed with well fluid and pumped into the formation to clean-up damaged wells.

■ **FoamMat** — Developed by DS, it forms a foam bank to get acids into the oil bearing zones instead of the water zones. Two problems associated with acidizing have been penetration and getting the acid into the right zones. FoamMat, however, reportedly diverts it into the right zones. While most of the application so far has been done on the gulf, there have been



This on-the-fly blender, which mixes and pumps stimulation chemicals downhole, is just one new development the stimulation industry has seen over the past few years.

applications for it in the Permian Basin.

■ **Carbon dioxide** — There have been a number of CO₂ breakthroughs in recent years involving the use of CO₂ in reservoir stimulation.

Acid and CO₂ together are used to improve conductivity over typical aqueous solutions, and achieving better penetration, and are also being used in injection wells to improve profile control and longer term stability.

CO₂ and methanol were also being used to reduce water blocks in reservoirs. The water and CO₂ go into solution and when they come back as a carbonated fluid. The methanol dries up the area of the water block. Stimulation companies are using it where wells have been shut-in and where migration problems occurred during production.

It has also been applied in varying degrees in tight sands areas to remove skin damage to the wellbore.

■ **On-the-fly blenders** — Environmental concerns of oil companies is also playing a major role in stimulation techniques, says Lew Niewoehner with Smith Energy Services. "We are seeing more environmentally safe fluids and chemicals. Also, we use on-the-fly

blenders to make use we don't have to take anything away from the lease for disposal."

On-the-fly blenders, which have been around for several years, permit stimulation companies to mix sand, gels and fluids while pumping, and have gained new favor with the current environmental push. Formally, the procedure was to mix everything in a frac tank then pump it down the well. If anything was left, it had to be disposed of. With these blenders, however, stimulation companies mix as they pump and everything that is mixed is pumped downhole. There are no fluids left over for disposal.

■ **Designed Fracs** — On-site, computer-designed frac jobs and mini-fracs were also a new component of the stimulation business. The mini-frac which has been employed in the last few years in the Permian Basin, permits the stimulation company to gather data that will better enable it to design frac jobs. Smith Energy Services makes extensive use of its lab in Colorado to analyze core samples and assist it in designing fracture treatments. The lab uses electron microscopes and other tests to study the properties of the rock and provides analysis within three days, to assist with better designed fracs.

Remedial work dominates stimulation

Staff report

Acidizing and fracturing of new wells once commanded a lion's share of the stimulation business, but during the downturn, the industry has focused on remedial work.

"New well drilling is still important to our industry and we all track it," said Ed Gee, division sales manager for DS Dowell-

Schlumberger. "But more and more of the work is remedial."

Tom Orbison, regional sales manager for BJ Services, noted that almost half of the firm's work is now remedial.

Gee said about 40 percent of the DS work load is remedial and that would probably continue to increase as new drilling drops off.

Lew Niewoehner, district manager for Smith Energy Services,

agrees with the amount of increase in remedial, which accounts for about 50 percent of his work, and says much of it has come from independent operators.

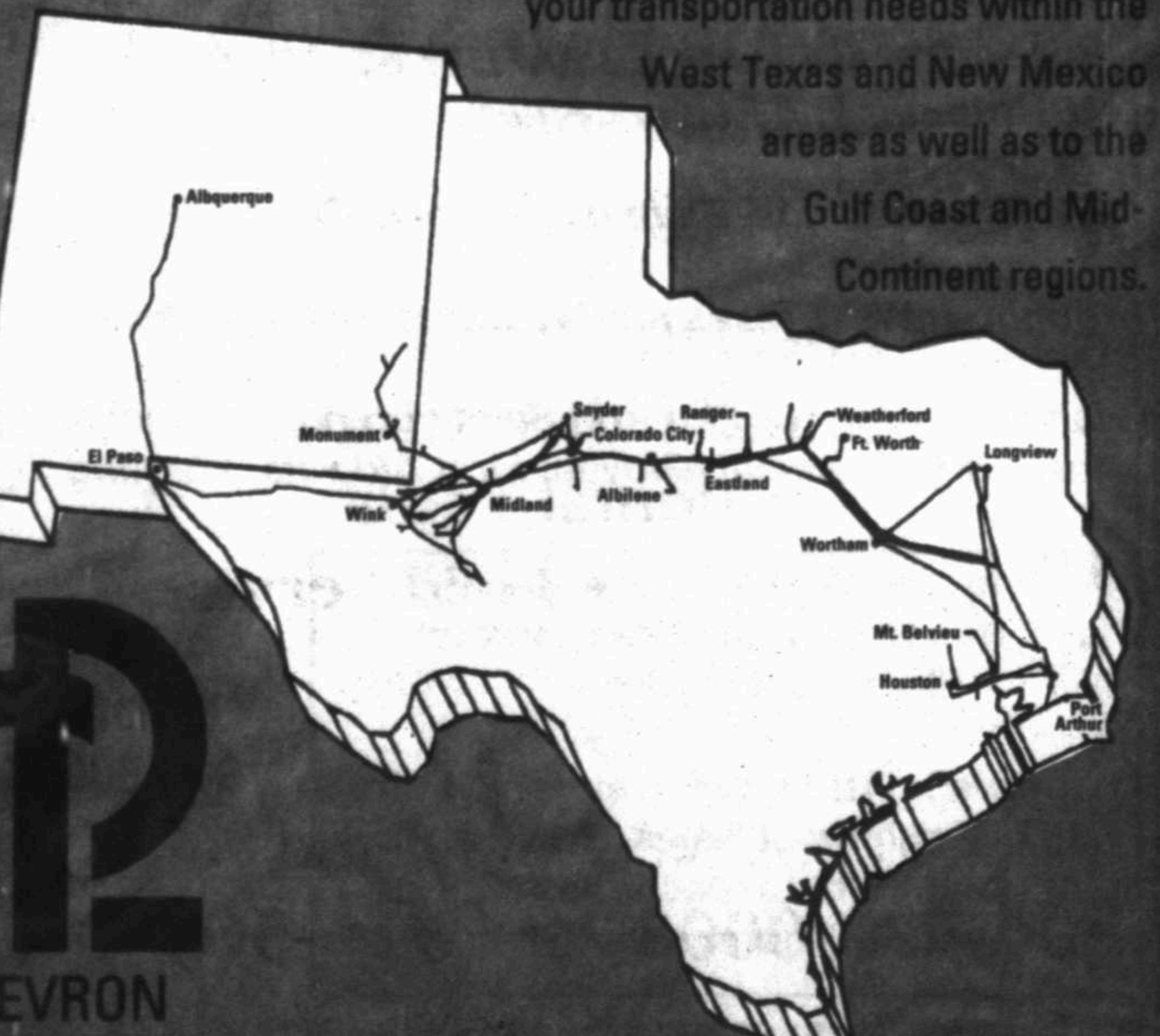
Said Orbison: "Much of the research today is aimed at remedial work to find new ways to fix damaged wells and correct traditional production problems such as scaling, emulsion and paraffin."



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HORIZONTAL**Horizontal drilling is promising**

By John Paul Pitts
Business/Oil editor

After being billed as a super money-making, boom-maker, horizontal drilling has fallen on disappointing times in the Austin Chalk and other plays, but in the Permian Basin experts feel the best is yet to come for the drilling technique.

Two techniques that show promise for the Permian Basin are standard measurement while drilling (MWD) short radius drilling and short radius drilling using non-articulated drilling techniques. Both techniques have been tried in the basin with reasonable success, and with more experience and cost-reduction could see wide application.

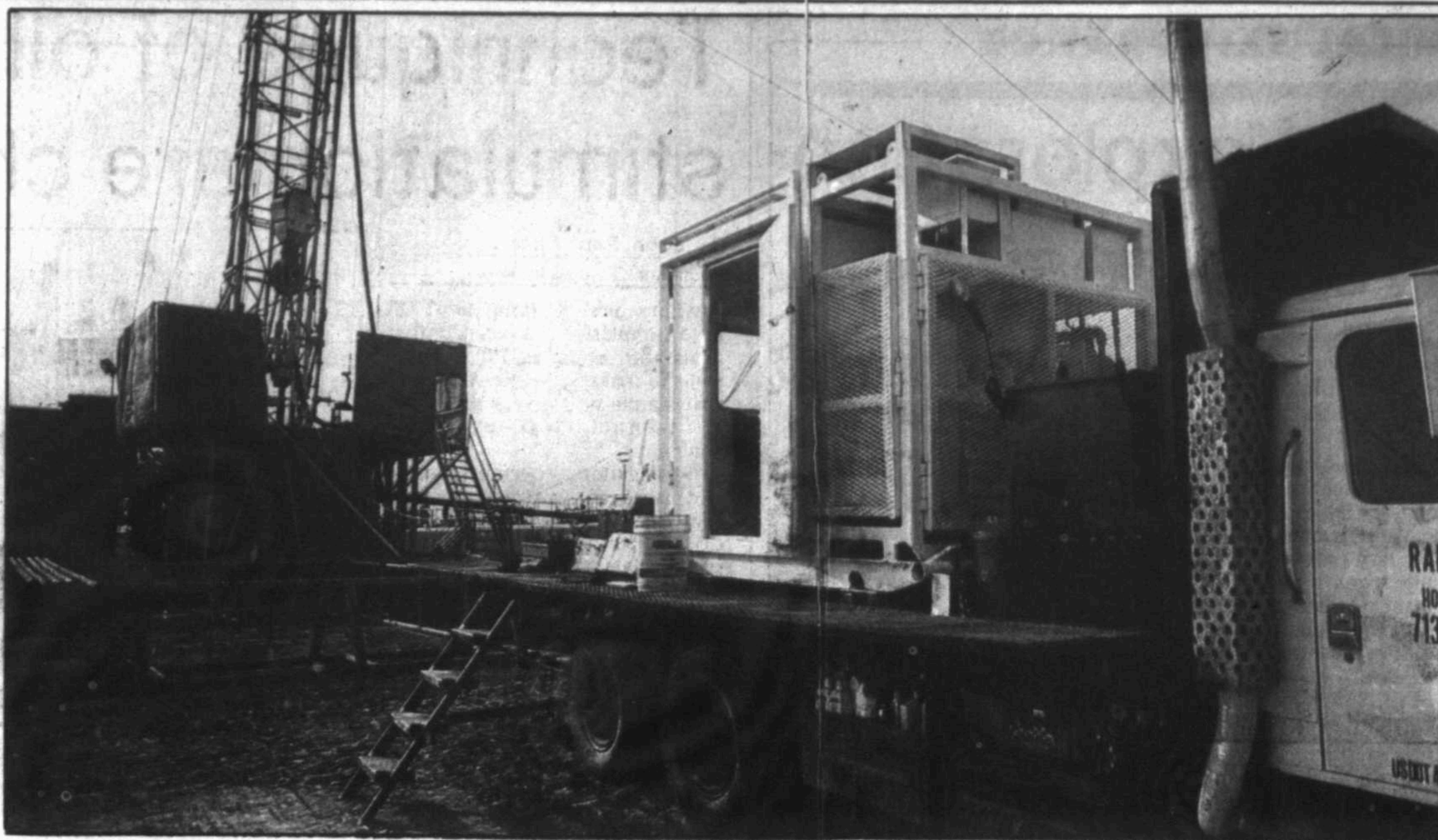
According to the latest industry reports, there has probably been more horizontal drilling in the Permian Basin than any other place in the world as operators have sought to perfect the technique and find the right applications.

Larry Massey, operations manager for Eastman Christensen, which rents MWD tools for short radius drilling, says the Permian Basin and North Texas could become new hot spots for the technique with independent operators leading the way.

Oil companies that have gone short radius are Amoco, Texaco, Marathon, Chevron, Phillips, Meridian and Pennwell Energy.

The primary advantage of short radius drilling over medium radius is time and money. It takes about six days to complete a short radius, compared to 12 days for a medium radius well. At \$8,000 to \$10,000 a day the costs can mount.

However, horizontal technology developed by Amoco and licensed to Pool Co. could bring horizontal drilling down by half again and put the technology in the hands of small independents.

**Horizontal success**

A Norton Drilling Co. MWD drilling trailer, foreground, drills a short-radius Ellenburger well for Pennwell Energy of Midland. The horizontal well, which became the world's longest short-radius lateral, was recompleted in a vertical non-commercial hole, tested for 350 barrels per day and demonstrated cost-effectiveness of the horizontal application in the Permian Basin.

Brian Adamcik/Reporter-Telegram

Short radius drilling effective for Pennwell

■ Deep project scores points for short radius technology.

By John Paul Pitts
Business/Oil editor

One company that has best demonstrated the cost-effectiveness of short radius horizontal drilling is Pennwell Energy of Midland.

In April of this year, the company, using short-radius technology turned an Ellenburger failure, near Pennwell into a prolific success. By spending an additional \$200,000 to drill horizontally across fractures in the deep Permian Basin formation, an Ellenburger duster with a production value of \$50,000 suddenly became a \$3 million well.

For another \$200,000 to add a 530 foot horizontal lateral to Pennwell's Edwards No.2, the \$750,000 well that had originally been completed to produce only 20 barrels a day, tested for 350 barrels a day on a 16/64 choke with tubing pressure of 350 psi.

It was given an allowable of 250 barrels a day. And best of all — unlike the Austin Chalk — the Ellenburger waterdrive is long-life reserves that should last the next 30 years.

The well, which kicked horizontally at 12,278 feet, also went into the record books as the world's deepest short radius project, according to Eastman Christensen.

Pennwell liked the idea so much that it has now drilled three equally successful short radius horizontal wells in the Ellenburger.

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GEOCHEMICAL EXPLORATION

Geochemical exploration could revive domestic oil

■ Efficient, accurate geochemical exploration could give a boost to the domestic oil industry.

By Gerry Calhoun

If there were a way to reduce your dry hole risks, encourage investors to join in your projects, and make more money, you'd want to know about it, wouldn't you? If you tried surface geochemical exploration on a prospect several years ago and "it didn't work," then you are in for a pleasant surprise.

Innovations made in the last two years have propelled geochemical exploration into a new era. The scorecard from the Geochemical Evaluation Research Team (GERT), done in 1989, highlights several techniques with blind test predictive accuracies greater than 75 percent.

In each of these successful methods, breakthroughs have been made since GERT that improve their accuracy and speed their application. In fact, the GERT project cannot be supplemented with added projects because instrument modification has advanced so as to make the GERT equipment obsolete.

If ever there were a time when efficient, accurate exploration methods were needed, surely it is today. World-wide competition has placed the U.S. oil industry in a head-to-head battle with producers with 100 billion barrels of reserves. Now we must compete with producers who are "finding costs" are less than \$1 a barrel.

You must have observed many companies rushing off to Afghanistan to find some big, easy oil. There are many sizable, politically safe fields in our backyard if we will but use the new tools available to us to find them.

RADIOMETRICS

You can survey your prospect, preferably prior to acreage acquisition, with a variety of Radiometric instruments. For as little as \$1 an acre, you can have an 80 percent certainty that it does or does not contain oil. Before you spend \$25,000 a mile on 3-D seismic data, doesn't it make sense to get a better idea of what you have to work with?

Radiometric techniques scored high in GERT and have been influential in the Concho-Menard King Sand play. The radioactive low associated with most oil and gas accumulations is due, in part, to some of the vertically migrating radioactive material being taken into solution in the oil itself. To discern oil-related anomalies from those caused by changes in the soil (a shale valley contrasted with a limestone hill) it is necessary to record channels tuned to Potassium, Uranium and Total Count.

Potassium accounts for most of the changes due to soil variation. When the other channels record

radioactivity lower than or depart from the potassium curve, you're onto something interesting.

MICROMAGNETICS

This well-known geophysical measurement not only responds to the iron-rich basement, but also to emplaced iron minerals in the sedimentary column. These sedimentary iron minerals — greggite, maghemite and pyrohotite — have been positively identified in drill cuttings from producing wells and are absent in deep dry holes.

This data can be acquired economically by an airborne instrument (Cesium Vapor Magnetometer) in areas of 200 square miles or larger. Or, for prospect-sized areas, it is acquired with ground based instruments for as little as \$500 per square mile.

LIVE SEEPS

Any surface geochem program should contain one technique which detects a "live seep": a method that detects actual oil or gas molecules present in the soils. These methods include radar, interstitial soil gas, adsorbed gas or fluorescence. Marine radar units can be detuned in such a way that they energize propane molecules at the soil surface and paint their presence on the radar screen.

If you are less adventurous, soil gas surveys may be your instrument of choice. An auger is driven into the ground and a soil gas sample is extracted at the bit and analyzed for ethane, propane, butane, etc. Concentrations of these alkanes are then contoured and interpreted over your prospect. This is not a stand-alone device because concentrations of gases may be interpreted to be located either at the crest of an oil accumulation or at a halo or flank position. Assuming 30 stations per square mile and \$75 per station, the cost is about \$2,250 per square mile. Absorbed gas is removed from soil samples with acid and costs about \$125 per sample.

Fluorescence analysis employs a technology geologists have used for years — ultra violet (UV) radiation. Soil samples are collected over the prospect and forwarded to a lab for analysis. There the sample is leached of its aromatic content and exposed to a powerful UV laser. Measurements of luminosity are taken at various frequencies to determine the amounts of the naphthalene, phenanthrene and anthracene groups of aromatic compounds. Most of the Permian Basin oils have a distinct signature when scanned across the UV range of wave lengths. This oil signature can be recognized in soils over an accumulation of that oil in an undiscovered field.

A cost estimate for soil fluorescence is \$35 a sample with 20 samples a square mile, or about \$700 a square mile. Analysis is straightforward because the aromatics tend to concentrate directly over the oil accumulation and are little

affected by microbes. Oil samples from nearby fields and other potential pay zones are taken for comparison with the soil samples. Thus, under appropriate conditions, you can identify the formation in which the oil is trapped.

LANDSAT

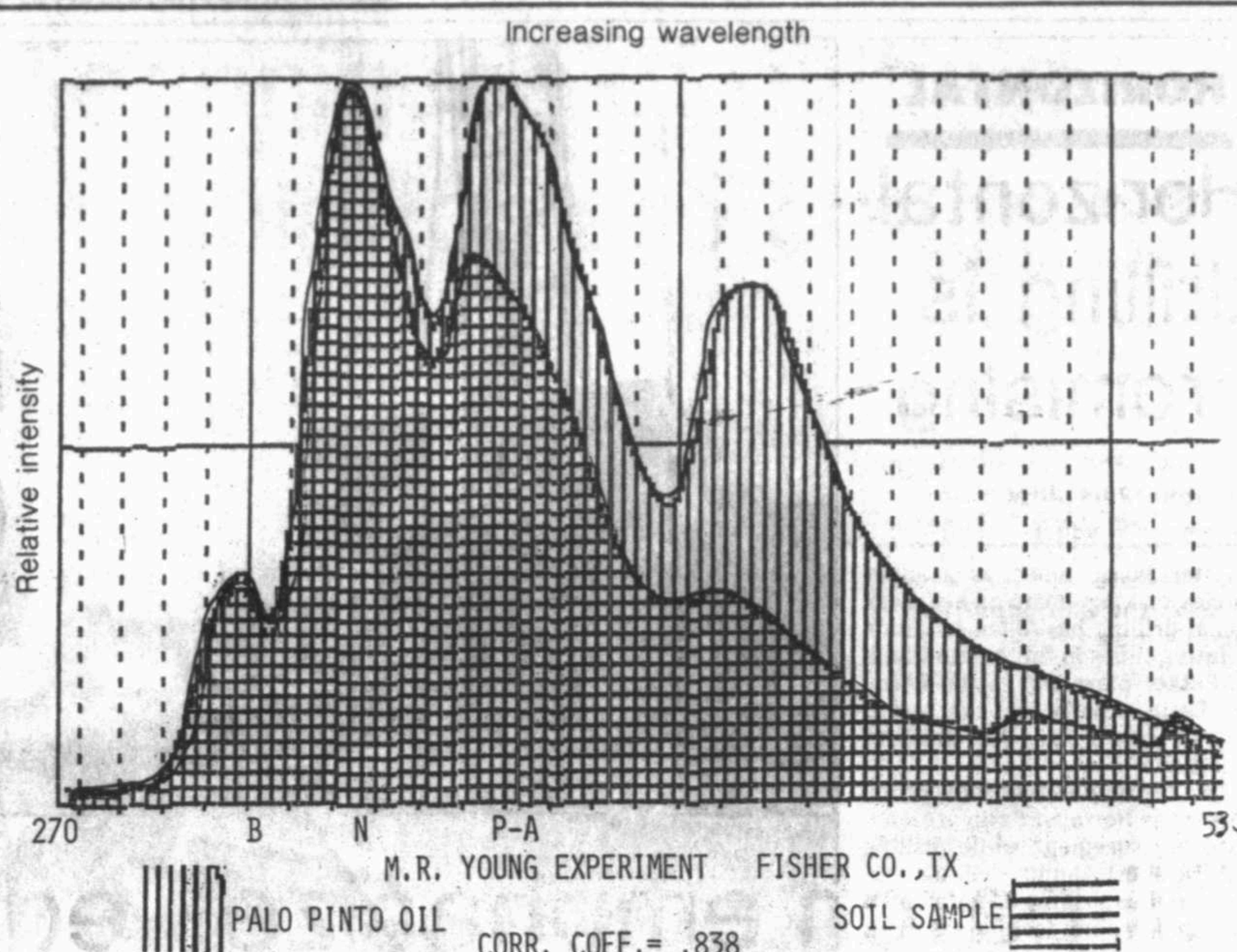
Satellite imagery was an accurate predictor in the GERT project. It is more definitive in anticlinal prospects and should be used in projects which cover a county or more. A 30-by-30 mile county could be analyzed for about \$9,000, or about \$10 a square mile. This is an excellent technique to screen large areas in the early stages of exploration.

Why don't more operators use surface geochem exploration? Skepticism about the validity of the methods is the most frequent reason cited. GERT results, if studied with an open mind, should allay that fear. This industry-financed project tested 12 commercially available techniques over 14 prospects in the Permian Basin. Its purpose was to determine which methods accurately predicted the economic outcome of these wildcats prior to drilling. While the project does not contain enough examples to do statistical studies, it does show some important trends.

No single technique is diagnostic enough to stand alone. Since they are so inexpensive, they need not be used individually. As an example, by combining the Windowed Radiometric (83 percent) micromagnetic (65 percent) and Fluorescence (78 percent) methods, an operator can know with a high degree of certainty the most likely location of an oil accumulation on a subsurface prospect. Cost for such a survey would be no more than \$3,500 per section, if a 2,000 acre area is surveyed.

Another result of GERT was the discovery that soil gas analysis, the most frequently used method by industry, is not the most accurate, nor the most cost effective technique available. If your experience in geochem exploration consists of mapping the alkanes, it's time to look at the GERT evidence and try something better.

The oil industry has always thrived on improved technology. Each innovation in our arsenal of exploratory tools has caused a rash of discoveries and renewed activity. Be it carbonate depositional environments, Movable Oil Plots, wrench fault tectonics or 3D seismic, new interpretations and new instruments always precipitate a burst of activity. The effective recent innovations in surface geochem exploration will prove to be the next technological insight that sparks a new surge of drilling and discovery. The only questions is — which of the "Crucible Companies" that have survived the bust will have the courage to spearhead the use of this new technology.



This graph shows fluorescence peaks between oil and soil samples on the M.R. Young experimental well in Fisher County. This test could help geologists in their search for oil.

Technical training has many sources

By Mella McEwen
Staff writer

Universities, junior colleges and industrial schools serve an important service, training not only geologists, geophysicists and engineers but helping oil patch workers keep abreast of the latest developments in an increasingly high-tech oilfield.

Producers also look to professional groups to help keep up with advancements.

Helping its members is becoming quite a task for the Society of Professional Well Log Analysts in the face of advancing technology, seen in such areas as cement evaluation, porosity evaluation, sonic logs, resistivity logging and other advances in formation evaluation.

The first experimental log was recorded 65 years ago in Pechelbronn, France, by the Schlumberger Brothers. Since then, well logging and well log analysis has grown

indispensable.

"Well log analysis is used on every well," says Gary Murrill, president of the Permian Basin chapter, Society of Professional Well Log Analysts. "It's used to make every decision, from setting pipe to whether the well is commercial."

The SPWLA was formed in January 1959 in Tulsa, Okla., with 19 charter members. It has since grown to 33 chapters with 3,500 members in more than 60 countries. Chapters can be found in Paris, London, Norway, Scotland, Western Australia, Hungary, India, Beijing and Nigeria.

The Permian Basin chapter, formed approximately 30 years ago, has a membership of about 150 people: petrophysicists, log analysts, geologists and engineers.

The chapter's main focus, according to Murrill, is the Permian Basin. The group meets

monthly and hosts a variety of speakers from throughout the oil and gas industry, many who come from Dallas or Houston.

"The focus is the Permian Basin as far as applications, field studies, the ways companies use log analysis to better production," he said.

Each of the SPWLA's 33 chapters meets regularly to help members keep up with technological advances. The national organization hosts an annual three-day logging symposium where papers on well logging technology and other topics are presented.

The society also publishes the annual Logging Symposium Transactions and the bimonthly The Log Analyst scientific and news journal, reprints volumes on certain aspects of logging, formation evaluation or logging tools, and publishes "A Glossary of Terms and Expressions Used in Well Logging."

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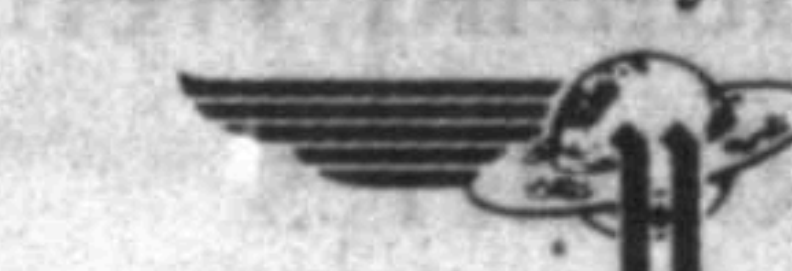
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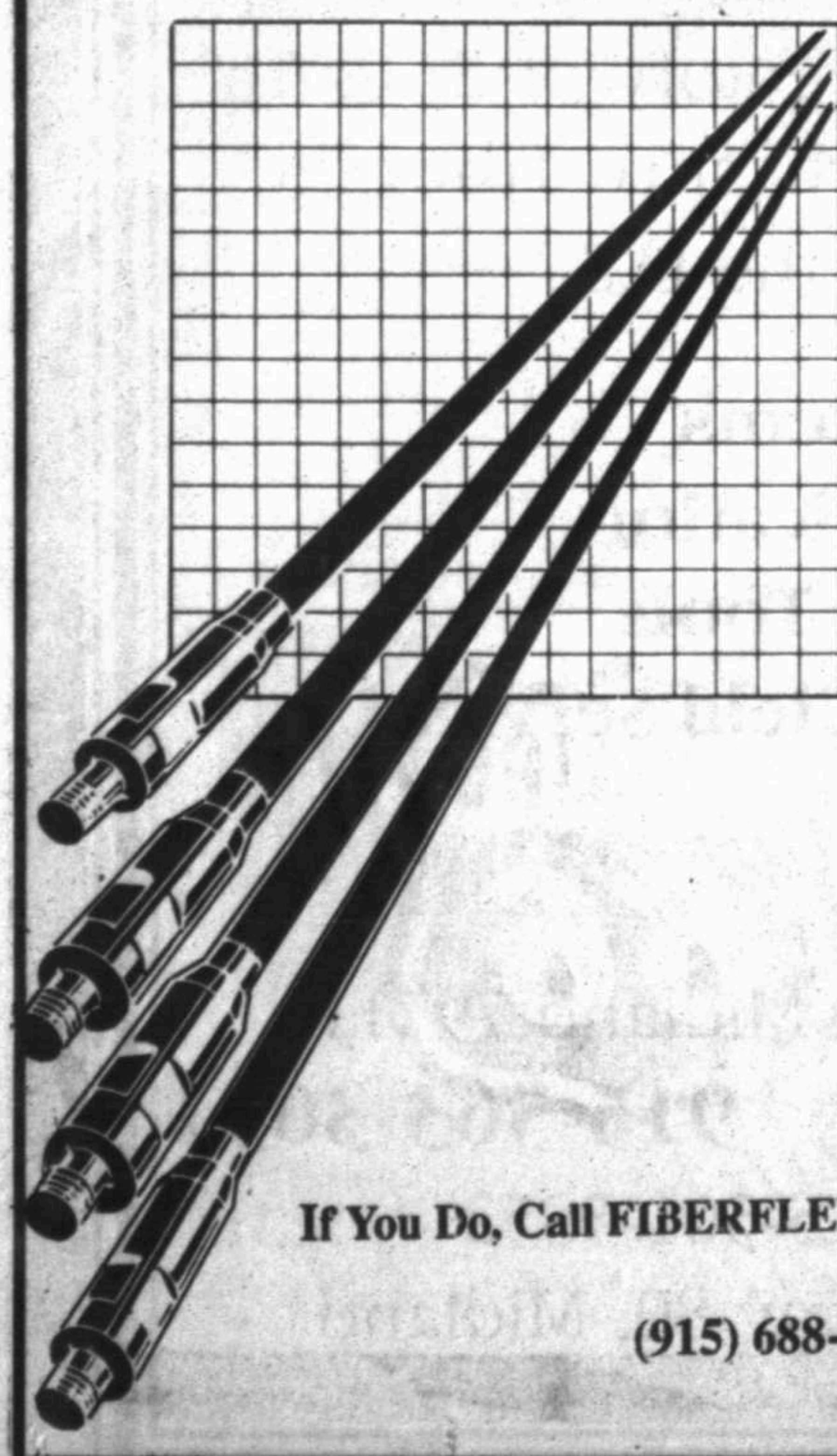


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School of hard knocks

In the early days, workers went straight from the cotton patch to the oil patch, where they studied the industry at the "school of hard knocks." The men drilling this well in 1923 include Homer Dollar, catheader, French La-Coss, fireman; J.D. "Tiny" Laird, twister; K.L. Beck, pipe racker; and an unidentified derrick man.



Oil patch emphasizes education

■ Education is becoming increasingly important as the oil patch goes high-tech.

By Mella McEwen
Staff writer

As high-technology increasingly becomes a part of the oil patch, education is becoming of greater concern to producers.

They look not only to the universities who educate geologists, geophysicists and engineers, but to schools that will train employees in the latest technology and equipment in such areas as artificial lift, pump off and other controls.

"We're learning a little more as far as drilling, which has changed our approach to completions," said Bob Cates of the New Mexico

Oilfield Training Center in Roswell.

"Knowledge of the reservoir will also change the method of lift sometimes," he said.

He said oil-field workers now have to have higher skills, such as computer skills.

"You'll be operating keyboards and accessing information. We're adding more computer courses to our requirements. Another field opening up is technicians to repair the controls, change out the cards and modules at the lease. We also have a personal computer repair program, teaching how to test, troubleshoot and fix a computer.

"We used to send roustabouts out to cut and thread pipe. Now we're sending out technicians. We're doing the same thing in gas production. We used to have paper charts; now more and more

electronic devices and computers in the office can access the well and get the information any time.

"Higher skill levels are required in order to deal with new technology. You have to be willing to change because something new comes out tomorrow."

Cates said, "There's a lot of demand for short-term training right now, especially on safety aspects. Another aspect is environmental issues, like spillage. We're having to include more in our curriculum and in our short-term training. Environmental issues, safety training, electronic and computer controls are our buzz words now."

Larry Adams of Chevron, who teaches completion courses at Midland College, sees a major revolution coming with the use of coiled tubing. He has been involved in using coiled tubing in velocity strings.

He said coiled tubing — one continuous string of tubing — doesn't have joints that can leak and can run at speeds much faster than conventional tubing.

"The cost effectiveness is unbelievable," he said. "Coiled tubing still has development problems it has to go through, but it is definitely becoming one of the highest focuses. We've done quite a bit of work with it, so has Conoco (and) Exxon; the Saudis are big on using it."

Cates is concerned with the trend of majors pulling out of the United States and heading overseas, leaving independents to work domestically. He worries about the impact of this trend on his center and others like and how much independents will be able to help fund research and development.

Consortium does Russian field feasibility study

Hearst News Service

HOUSTON — Royal Dutch/Shell Group has taken a 20 percent stake in a feasibility study under way by Marathon Oil, McDermott International and Mitsui & Co. for the development of two Russian

oil and gas fields off Sakhalin Island.

The MMM Consortium, as the three-member group has been dubbed, had been negotiating with Mobil as a potential partner in the project, but about a month ago Mobil said it was no longer

interested.

Sakhalin Island is located off the east coast of Russia north of Japan.

The Russian government awarded the project to Marathon, McDermott and Mitsui in March. Marathon and Mitsui each hold 30

percent of the project; McDermott holds 20 percent.

Dixon said the group just completed the second of two appraisal wells planned for the study, one each in the Piltun-Astokhskoye and the Lunskeye fields.

Dwight's opens Midland office

Staff report

Dwight's Energydata, Inc. has re-established a local office in Midland with the addition of Alton Lisso. The company previously had a representative in Midland during the late 1970s and early '80s.

Dwight's is a supplier of software and information services to the oil and gas industry. According to Ron Samuels, vice president of sales, "Midland has always been a major market for us. We have maintained our contact with the Midland customer base by servicing the accounts through our Dallas office. This arrangement has worked very well with the ease of air travel between Dallas and Midland."

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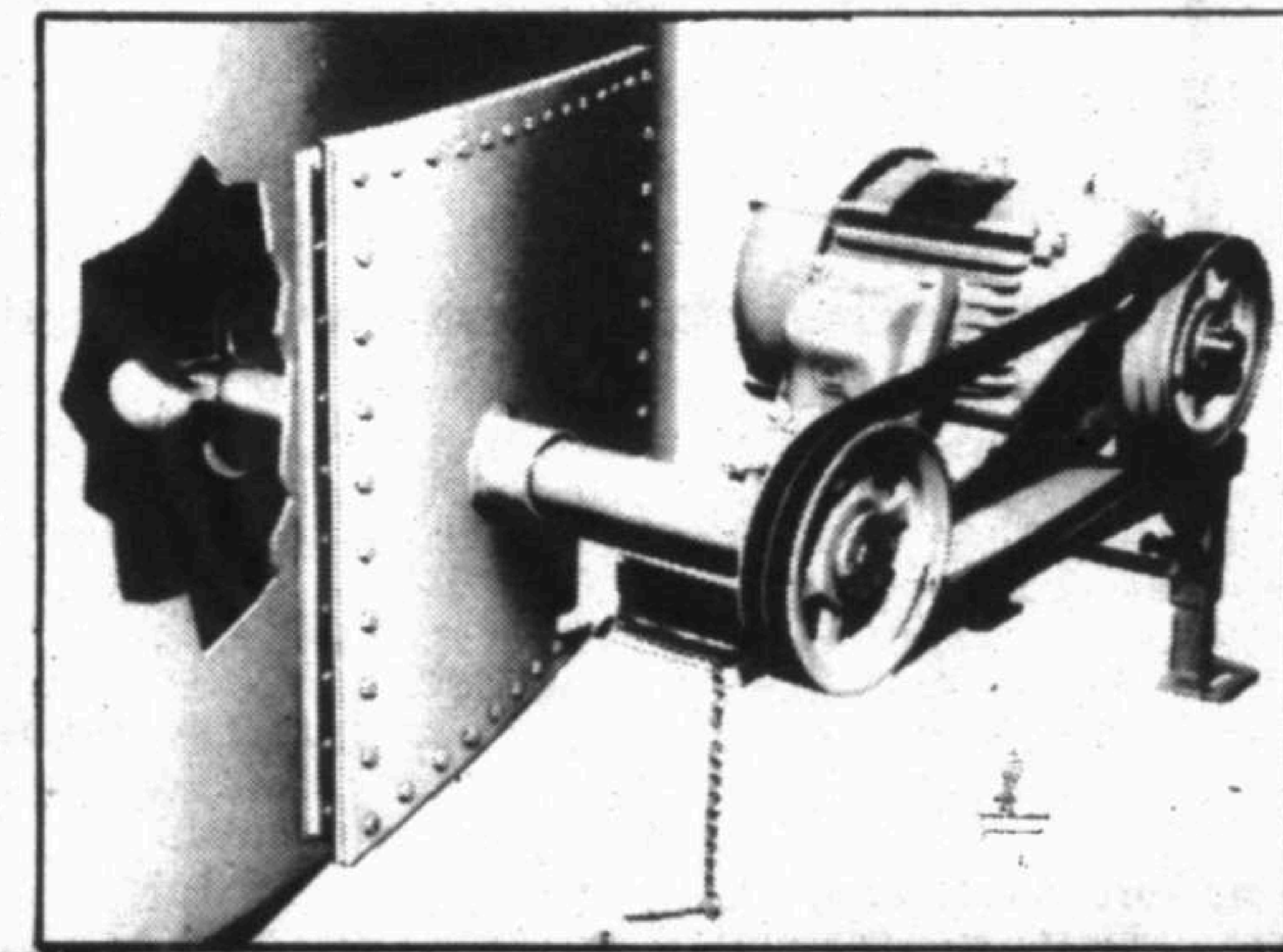
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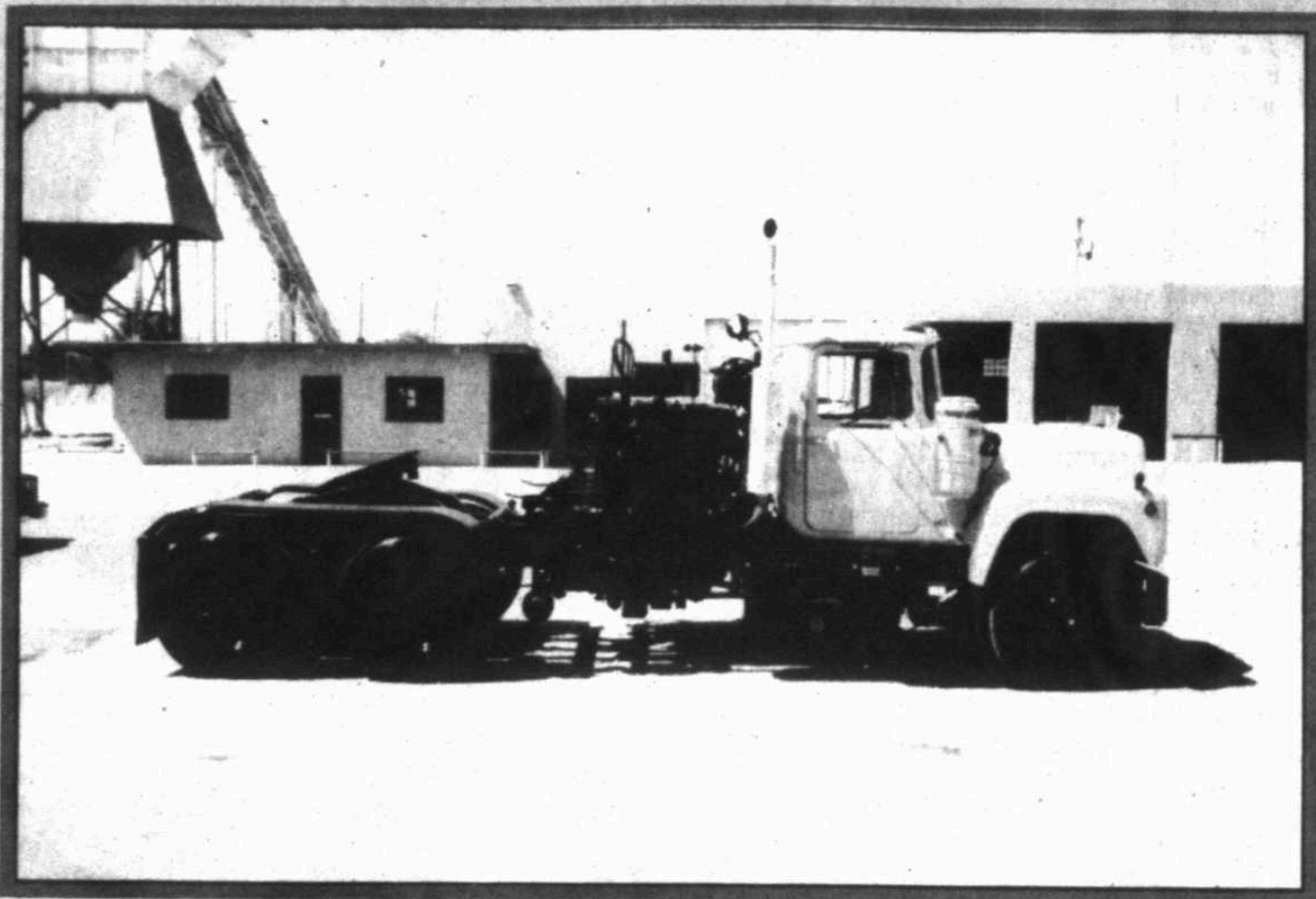


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**By John Paul
Business/Oil edi**

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3-D seismic Process may fuel another boom

By John Paul Pitts
Business/Oil editor

One technology that is not over-touted when it comes to potential for the Permian Basin is 3-D seismic.

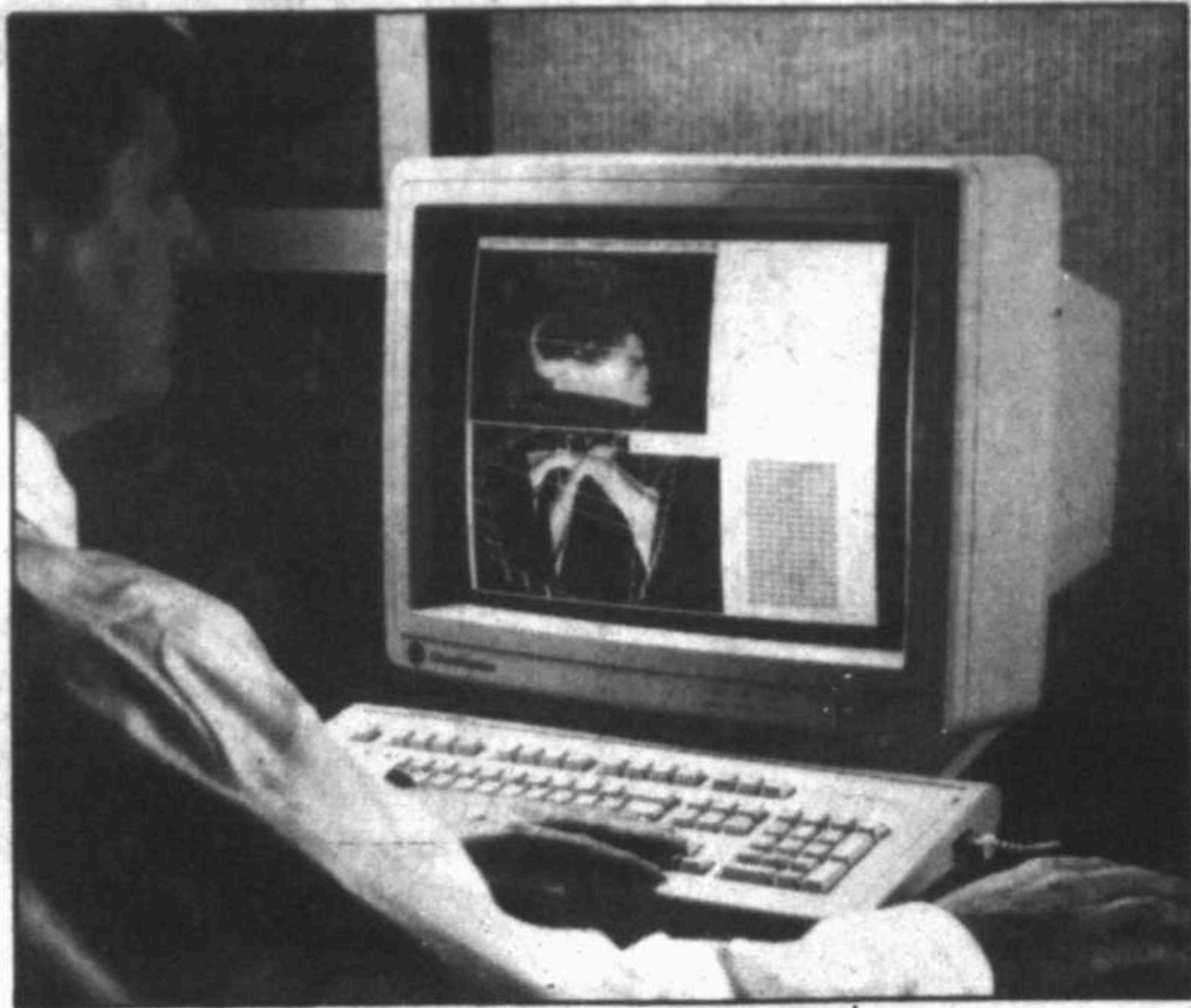
A hyper-form of two dimensional seismic, three dimensional (3-D seismic) is to the industry what 2-D was in the early 1920s. It is an entirely new generation of technology made possible by sophisticated data-gathering equipment and high-powered computers. Its applications in the Permian Basin are endless.

"Eventually, the entire Permian Basin may be re-shot, using 3-D seismic techniques," says Decker Dawson, president of Dawson Geophysical.

It is a process that will lead to thousands of additional drilling sites, both infill and exploratory, according to George Underwood, a Midland geophysicist.

"This process has the ability to peel back the earth a layer at a time to reveal numerous hydrocarbon traps," said Underwood, as he demonstrated how the raw field data is manipulated to reveal an ancient, meandering riverbed that is a prime target in the Morrow sand.

In economic terms, 3-D will mean the creation of new jobs in the Permian Basin as the method permits oil companies to find more oil.



The accuracy of 3-D seismic — which can pinpoint hydrocarbon traps — has increased because of sophisticated data-gathering, high-powered computers, and improved software. It may spur new drilling in the Permian Basin.

It is a process that will lead to thousands of additional drilling sites, both infill and exploratory . . . The 3-D technique is able to find very small and isolated fields, and small features within a field that have been overlooked. 'It will find new oil and oil that has been passed over within fields.'

— George Underwood, geophysicist

"It will allow geoscientists to image the subsurface in far greater detail than ever imagined," said Lou Mazzulo, a geologist.

The 3-D technique is able to find very small and isolated fields, and small features within a field that have been overlooked. "It will find new oil and oil that has been passed over within fields," Underwood said.

When the Permian Oil Report reports on the completion of a prolific well, chances are it was a well that was defined by 3-D seismic.

Mobil nearly doubled the reserves of its Pegasus field by using 3-D seismic to locate

caving situations in the Ellenburger.

As exacting as the science is, operators say it could greatly reduce drilling risk and serve to attract more investment capital back into the industry.

"In fact," Mazzulo said, "it is getting increasingly harder for geologists to sell drilling prospects that aren't qualified by 3-D."

At the same time, costs are coming down, and that's good news for independents. Previously only major oil companies could afford to use the technique, but as 3-D's popularity increases, its cost decreases.

Engineers turn organic matter into electricity

N.Y. Times News Service

SCHENECTADY, N.Y. — Based on the principle that almost any fuel can be burned more cleanly and efficiently if first turned into a gas, engineers are developing ways to produce electricity with fuel gas made from coal, wood chips, sugar cane leftovers — even sewage sludge.

The process employs systems known as gasifiers, which can cook organic material into a fuel for gas turbines, the most efficient electricity generators available. While utilities currently burn natural gas in their turbines, coal is more plentiful and may eventually be cheaper.

Indeed, gasifying coal could be economically attractive in the United States in the near future, many energy experts say. Extracting more electricity from a ton of coal, by burning it as a gas in a turbine instead of as a solid in a boiler, would make it easier to remove conventional pollutants, like sulfur dioxide, which causes acid rain. Possibly more important, it would also mean less carbon dioxide, a "greenhouse" gas associated with global warming.

But energy experts predict that another approach may become even more environmentally important: gasifying a "renewable" fuel like wood. In the developing world, particularly, using wood or crop wastes in utility power plants could be a key to electrifying less-developed nations and making better use of forests than burning trees as firewood.

True, burning a tree for fuel releases carbon dioxide into the atmosphere. But it also opens up space for the growth of a new tree, which will absorb carbon dioxide as it grows. By contrast, digging up and burning coal — the repository of eons of carbon accumulation — neither encourages the formation of new coal nor recycles the carbon dioxide released into the atmosphere.

Irving Mintzer, coordinator of the Climate Change and Sustainable Development Program at the Stockholm Environment Institute, said turbines running on wood or other organic matter — known generically as biomass — "could be

part of a systematic response to global warming."

Most undeveloped countries burn wood at rates far faster than forests can be regrown. But a 30-megawatt plant, sufficient to meet the needs of about 15,000 American households and an even larger number in a less developed country, could use 27,000 acres of tree farms to supply it into perpetuity. That assumes the harvesting of an average of 5.5 tons of wood from each acre each year, and the planting of new trees.

A gasifier works by heating solid fuel with steam in the presence of a carefully regulated amount of oxygen. "Dirty" solids like coal, which is filled with impurities, or solids with a low energy density, like wood or crop wastes, can be gasified, producing hydrogen, carbon monoxide, methane and other combustible gases.

Utility companies in industrial nations are increasingly turning to gas turbines, sometimes paired with steam turbines that use the gas turbines' waste heat to make even more electricity. These are replacing old-fashioned generating stations that burn fuel in a boiler furnace to make steam, and then run the steam through a turbine to make mechanical power, which turns a generator.

Burning a fossil fuel like coal in a boiler, a generating station converts, at most, only 32 percent of the fuel's heat into electricity; the rest of the heat energy escapes up the stack or into a cooling tower or condenser. The best gas-turbine plants, by contrast, are 53 percent efficient.

"We see gas turbines evolving, for as far out into the future as we need to care about," said James C. Corman, general manager of advanced technologies at the power generation engineering section of General Electric's Research and Development Center here.

As a manufacturer of power-plant generating systems, G.E.'s primary interest in gasification is in a coal-fired technology that will replace the current standard — burning pulverized coal to produce steam. G.E. estimates that between now and 2005, the worldwide market for new coal-fired power plants will exceed \$300 bil-

lion, representing a combined generating capacity of 300 billion watts. The company believes a substantial portion of that capacity could be met with gasifiers instead of boilers.

With help from the U.S. Department of Energy, the Electric Power Research Institute and other organizations, General Electric and Texaco Inc. built a plant called Cool Water, in Daggett, Calif., in the desert northeast of Los Angeles. The plant ran for five years in the late 1980s and demonstrated that coal gasification worked reliably enough to supply electricity.

But it was not designed to show it was financially feasible, and in fact, it did not prove to be. Among Cool Water's disadvantages was that the temperature of the fuel gas had to be reduced before the gas could be cleaned, increasing equipment costs and wasting some energy. Cooling the gas also had the effect of condensing water vapor in the gas, and because the water was contaminated with pollutants, disposing of it was expensive.

At its research and development center, however, G.E. is now running a high-temperature system that cleans up the gas while it is hot. The gas is spun in an artificial cyclone, whose centrifugal force throws off particles, including sodium and potassium, two metals that can ruin the blades of a gas turbine. In a separate vessel, an absorbent material — zinc ferrite or zinc and titanium dioxide — absorbs the sulfur.

In addition to improving the energy properties of coal, gasification might turn useless agricultural waste, like the stalks of harvested cotton plants, into valuable fuel. Researchers are even considering converting the Cool Water plant to use sewage sludge, in a combination energy production and waste disposal project.

Earlier this year, G.E. tried again, using two biomass fuels — wood chips and then bagasse, the residue of sugar cane after the sugar juice has been squeezed out.

In some ways, biomass fuels were superior to coal, because they have little sulfur, simplifying cleanup.

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OCT 18 1992

Oil patch accepts biological products

■ The use of microbes in oil recovery is growing among Basin producers.

By Joe Dominey

The oil industry is gradually becoming more receptive to using microbes to enhance oil recovery, dissolve paraffins, and neutralize soil contamination.

Several companies are working actively in the Permian Basin to provide microbial products. Among them are Alpha West Inc. and National Parakleen Co. Inc., both based in Midland but now operating in several states. A Houston-based company, Environmental Reclamation Co., has established representatives in West Texas.

Actually, bio-degradation has been used for decades, but until recent years there was no incentive to switch from conventional chemical treatments. The twin concerns of environmental protection and lowering operating costs have stimulated biological product sales.

While the process of degrading hydrocarbons is similar among the biological products in use, the microbes fall into two broad categories: aerobic (oxygen-consuming) and anaerobic (living in the absence of oxygen).

Alpha West Inc. is a sales and service company principally owned by Midlander Wm. B. Blakemore II and family, and operates under contract with Alpha Environmental of Austin. It uses a bacterial process applicable in the Permian Basin as well as other areas of the state. Its primary business is degrading paraffins down hole and bio-remediation of hydrocarbon contaminants.

Alpha Environmental was formed in 1985 by a group of experts who collected bacteria that occurred in natural seeps of hydrocarbons. These microorganisms consumed the hydrocarbons as their food source. They also were selectively bred to weed out any human pathogens and to be tolerant to salt water.

The resulting cultures produce a harvest in the form of dry powder consisting of highly concentrated cells which have little loss in viability and a shelf life of one year or longer.

A biocatalyst serves as an activator and also aids the bacteria to survive in an anaerobic (oxygen-deprived) environment. In addition, a small quantity of nutrient, basically a common fertilizer, stimulates growth down-hole.

Wm. B. (Bill) Blakemore Jr., runs Alpha West.

"We started in 1988, first of all looking at using bacteria strictly for enhanced recovery. At that time there really wasn't an awareness by the oil companies that there was a product available (even though) people had been working on it for 40 or 50 years," Blakemore said.

He explained that Alpha Environmental's achievement was getting aerobic bacteria to survive in

the down-hole environment.

Initially, the industry was not receptive to microbial enhanced oil recovery (MEOR).

"In engineering school one of the first things they learned was you've got to get rid of all the bacteria because bacteria is bad. Not only did they want to continue using chemical treatments, but they thought they had to get rid of bacteria at all costs, Blakemore said.

To win support for MEOR, Alpha West first demonstrated bacteria to be effective in paraffin control.

"We felt that once we got over the initial negativism they had, we could get into other areas, and that's what's happened."

In its EOR program Alpha West inoculates bacteria into the reservoir through a water injection method, spreading the bacteria throughout the reservoir. A portion of the oil is degraded in place, producing surfactants and fatty acids.

"It would change the character of the reservoir, increase sweep, and the result would be an increase in production," he explained.

National Parakleen uses an anaerobic bacteria in its microbial enhanced oil recovery (MEOR) program.

Company president Fred G. Brown described the bacteria as naturally occurring, non-pathogenic and non-genetically engineered. They are mixtures of live facultative anaerobes containing several different strains that produce desirable changes in crude oil properties and formation water.

"The two requirements are paraffin-base oil and water-wet formation rock. The bacteria increases the quality in the oil. In industry terms, it increases the gravity of the oil and decreases viscosity.

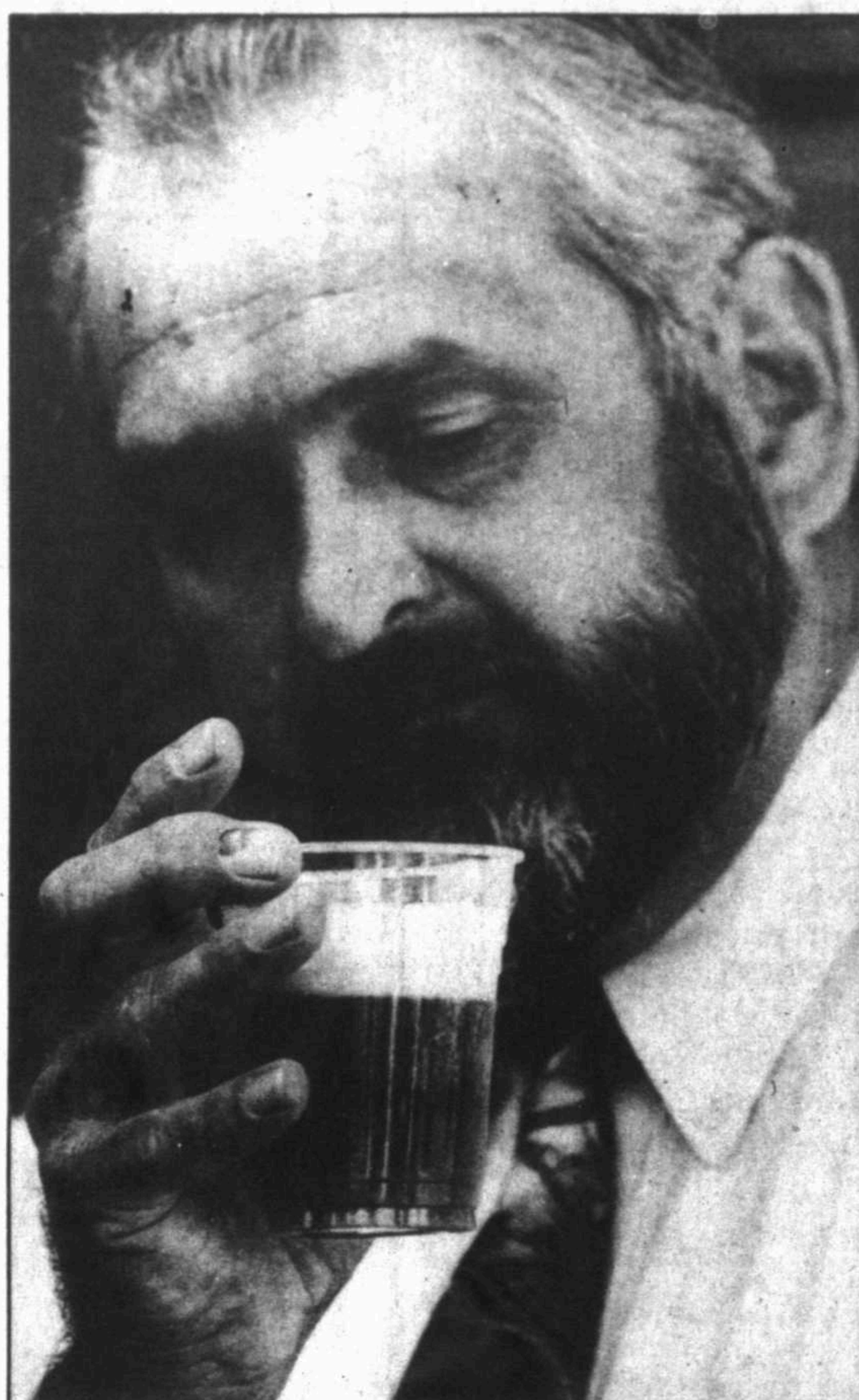
When you decrease viscosity you increase the flowability or producing rate, and you change the oil mobility so oil can flow more readily to the well bore," he explained.

Degradation of saturated hydrocarbons (alkanes) occurs biochemically to reduce pour point and viscosity, thereby reducing operating cost, increasing production rates and enhancing oil recovery.

National Parakleen's products consist of four groups or mixtures of different strains, each selectively bio-degrading alkanes according to their molecular carbon order.

National Parakleen is now involved in an EOR project in the Altamont/Bluebell Field in Utah, located in the Uinta Basin. Brown stated that this is the largest proven enhanced oil recovery project in the world. Coastal Oil & Gas Corp. currently operates 146 wells in the field with daily production of 7,100 bbls. of oil, 25,000 MCF of natural gas and 29,000 bbls. of water.

The Altamont/Bluebell Field produces one of the highest wax content crude oils in the United States. The wax content can be as great as 60 percent. The area has



Larry Wiens, president of Wiens-Conboy Inc., displays a microscopic-bacteria product made by his company that can eat oil, turning it into a substance safe enough to eat. Permian Basin oil producers are learning to accept the use of such microbes.

low ambient temperatures, often dropping below zero in winter. He observed that paraffin wax is an excellent carbon source for bacteria growth.

This project developed the technology to microbially treat deep, high temperature wells and high wax content crude oil. Estimated increases in oil and gas reserves resulting from the MEOR is 30,000 bbls. and 106,000 MCF per well.

Brown observed that one of the problems with bio-degradation is that it is a slow process. "Now the industry has a chemical mind-set. They want to see you go out there and pour two things together, and they want to see (an immediate) change. Of course, that's the reason people like chemicals and the chemical industry is so popular.

The process of developing effective microbes is like breeding cattle to live on certain kinds of feed. Biochemists isolate the bacteria using the toxic substance as a food source. The goal is to breed bacteria that aggressively accelerate the consumption of the toxic substance. Sometimes off-the-shelf products are blended with the native bacteria to aid in the acceleration process.

"What we do is keep purifying and growing from the naturally occurring bacteria so that we have healthy colonies in a nutrient base that we put back into the system in a much higher concentrated number," Brown explained.

National Parakleen's clientele is comprised of "practically every major" and many large independents. The company operates in Texas, New Mexico, Colorado, Utah, Wyoming, and Calgary, Alberta, Canada. Future plans include expansion into Mexico, Latin America, and Indonesia.

Both Blakemore and Brown said that the majors are more receptive to microbial products now that their efficacy has been proven. Alpha West is expanding its MEOR services and has a well-established paraffin control program going with a number of companies.

"At the majors, some of the engineers we've talked to lately are more apt to look at different techniques. They are constantly looking

Please see BIOLOGICAL/43CC

Quality management invades oil industry

By Johnnie Montgomery

The Permian Basin has seen a lot of changes ushered in with the 1990s, and none is more radical than the change in management style employed by firms throughout the oil patch, from oil and gas operators to service companies to supply stores.

The word these days is Total Quality Management — TQM.

The concept's components are simple: Do it right the first time. Listen. Work together instead of against. Come up with more than one solution.

Michele Thomas, Continuous Improvement Advisor for Exxon, said the company's southern division, which includes the Permian Basin, began TQM training in 1990, bringing in consultants to do the initial awareness training.

Since that time, Exxon has gradually trained its own personnel in TQM's techniques and tools, with teams being formed throughout the region.

"Those teams have really made a difference, especially in the field. We've seen a great difference in expense reduction," she said.

Ms. Thomas said TQM has been a major factor in the way Exxon does business.

"We have in many cases changed the way we handle contracts with vendors. We are communicating more with the vendors about our needs, and about the way they can meet them. We're really working together. Communication is a key. That is true inside the company as well as with the suppliers."

Ed Nowell, president and chief operating officer at Union Supply Co., says Permian Basin companies involved in aggressive TQM training cover almost every sector of the oil industry as well as city, state and federal government offices, and retail, industrial and non-profit industries.

"One of the keys is a new way of looking at business as an industrial democracy where everybody gets involved — everybody is empowered to participate," Nowell said.

Training for every employee is a vital part of the process. Steve Smith, TQM training coordinator for Union Supply said they began with a round of sessions for employees until every

employee had been through the initial training.

"Most people think of quality as simply product quality. But TQM is all phases, from top to bottom. Doing the best job we can the first time, and asking why we're doing it this way, and trying to find a better way of doing it. We learn to think of the people we work with as customers, and of our customers as partners," Smith said.

The Union Supply TQM program, like many in the Permian Basin, has task forces recruited from among its employees who work together to define problems, to find ways to upgrade, or to become more efficient. They've begun an in-house TQM newsletter and regularly recognize "Valued Idea Plans" — VIPs — among employees.

According to Nowell, some innovations to come out of the TQM training have been partnership arrangements with customers, in which Union teams have gotten together with customers to work out a synergy, resulting in improved relations up and down the ladder of operations in both companies.

"People learn to listen, define, analyze, come up with more than one solution, and to break problems into smaller increments," Nowell said.

Jim Kirksey, west Texas area manager of Dowell Schlumberger said they got involved in the process in the fall of 1989, trying to evaluate how they could improve service quality.

"We started a quality improvement committee, and developed a vision statement, then arranged for a consulting company to do a quality assessment study. We developed a TQM program, and sent managers, sales personnel and key engineering personnel to leadership training."

Once the initial training was done, they formulated a plan to intensify training to include people in the field.

By last year that training had been completed by virtually every person in production.

They then went on line with a computerized method of statistical process control as a tool to upgrade service. Every supervisor receives a quality report at the end of every month, and communicates that report to the teams involved.

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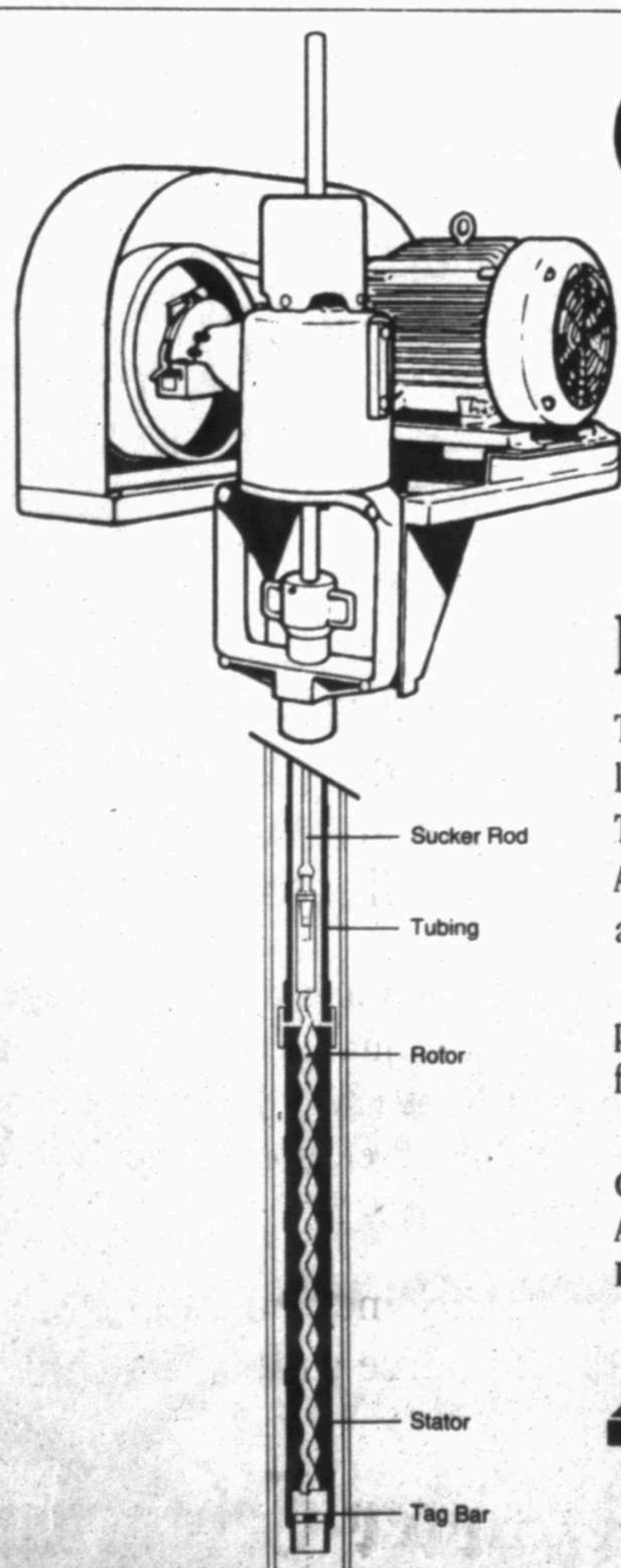
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(From 42CC)

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Stimulation involves tilling the soil and adding moisture and a nutrient, thereby stimulating the activity of the bacteria in place. When the culture reaches a certain population, it will consume the hydrocarbons.

Augmentation involves supplementing the naturally occurring bacteria with additional bacterial cultures collected from exotic environments around the world. The result is a more aggressive collection of hydrocarbon degraders.

Both processes take time to work, anywhere from a few days to two months.

Blakemore observed that the Texas Railroad Commission's interim guidelines are presently vague, but he expects a tightening in environmental regulations that will stimulate the bioremediation business.

"One of the majors we're working with is looking at bioremediation and thermal remediation — burning the soil — and hauling it off to land fills. Two of the major companies we're working with are looking at implementing programs where they will clean up Permian Basin wide."

Alpha West also cleans up contamination from leaking underground petroleum storage tanks, neutralizing contaminants without having to excavate the soil.

Midlanders Richard S. Gaddy and Bill McAnelly are regional distributors for a Houston-based bioremediation enterprise, Environmental Reclamation Co. As sales representatives, Gaddy and McAnelly are doing business as The Encino Environmental Company, with offices in Amarillo and Midland.

The principals of Environmental Reclamation are Tom Mayfield and Rod Kuehler of Houston. Mayfield developed a concentrated liquid product to stimulate the growth of house plants, then realized the agricultural opportuni-

ties, and formed a company with Kuehler.

Essentially their bio-remediation process is the introduction of nutrient products that stimulate a very rapid growth of naturally occurring microorganisms. These, in turn, consume hydrocarbons until either the food supply is exhausted, there is a depletion of oxygen, or the temperature of the soil falls below 2 degrees Centigrade.

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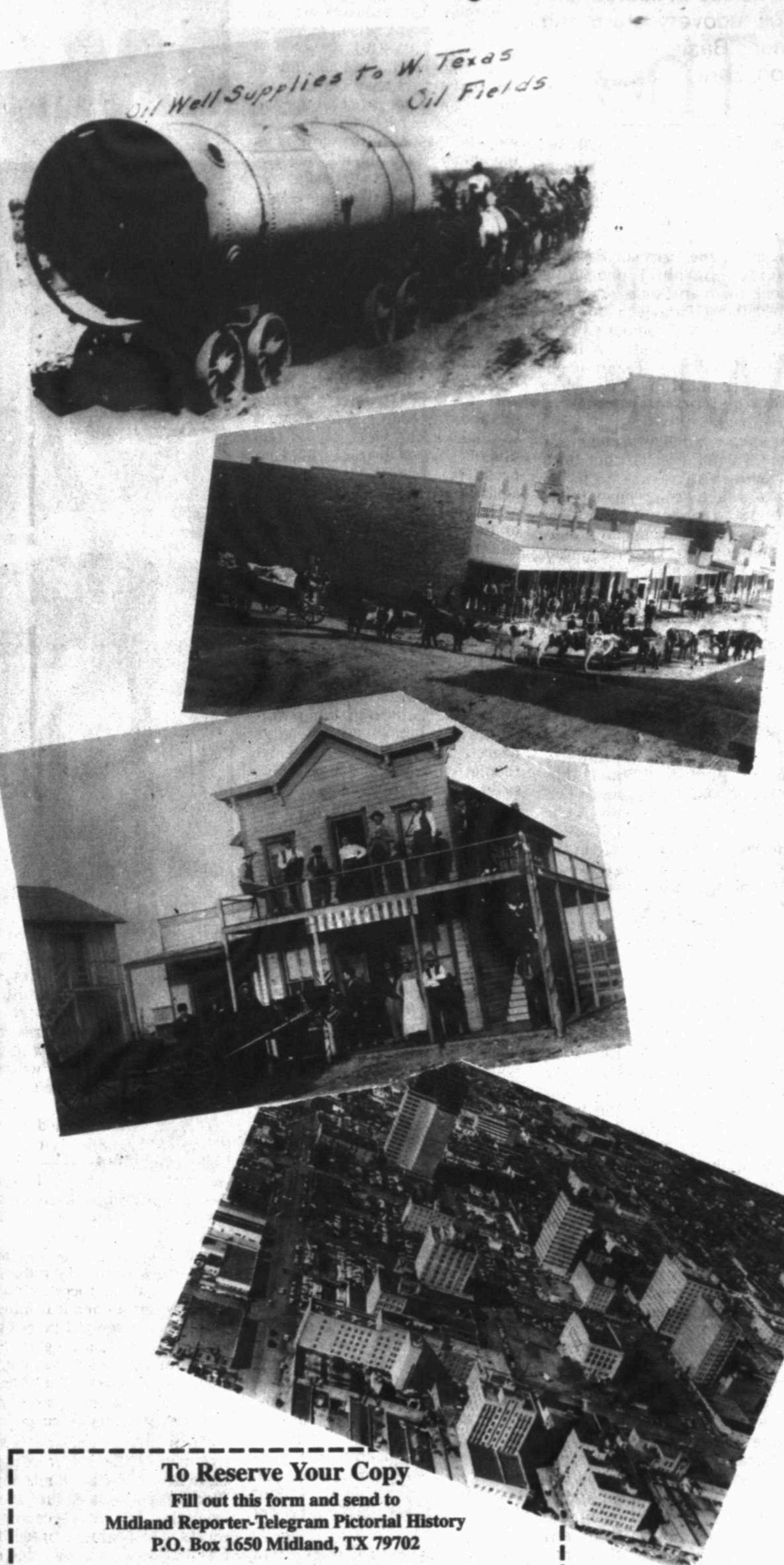
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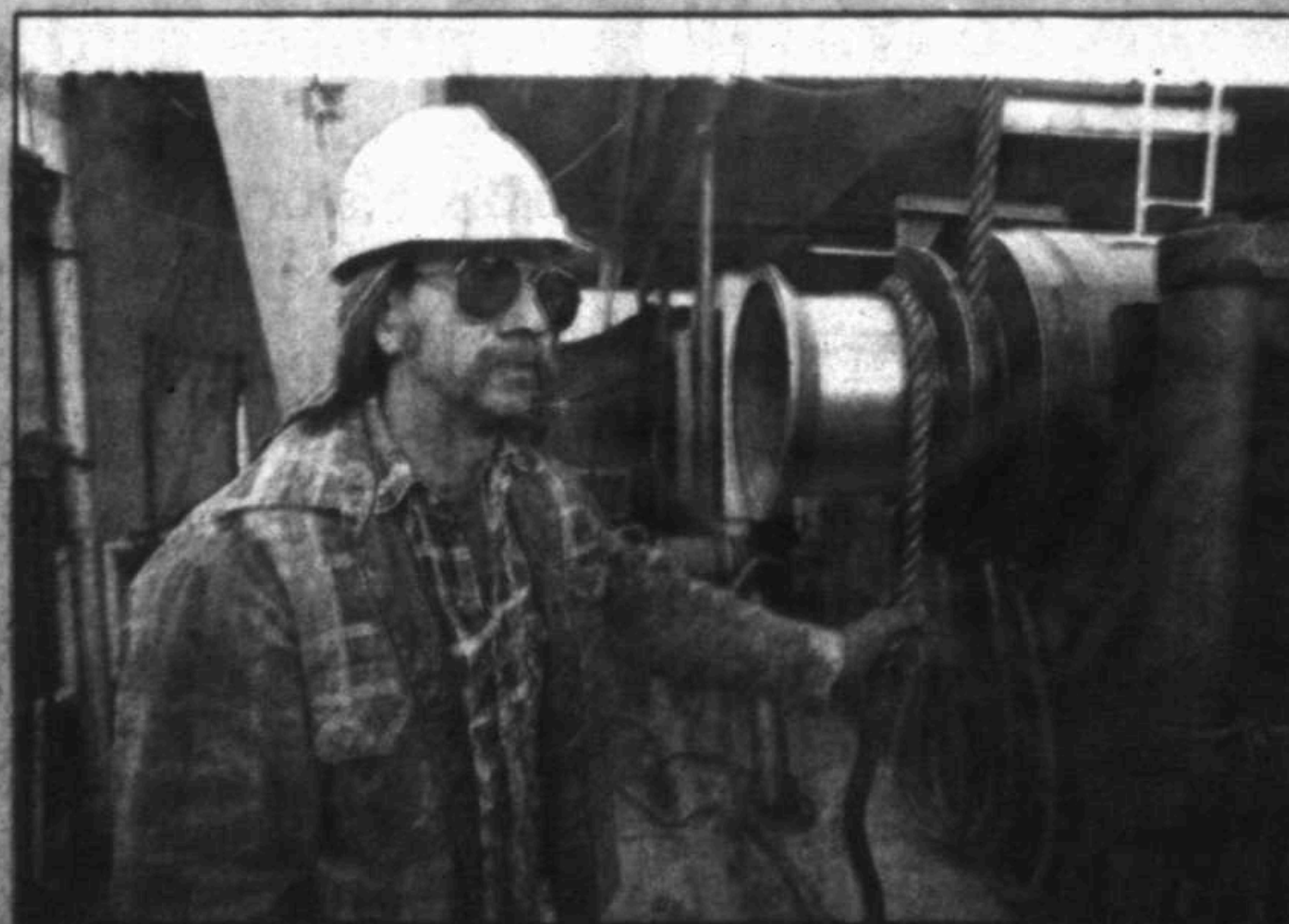
Two of the Permian Basin's most notable features, a sunset and a pumpjack, are captured in this photo. Producing a lion's share of U.S. production, the pumpjack is the unofficial symbol of the Basin.

The Permian Basin is a colorful region not only for its brilliant sunsets, but because of the character of its people and the nature of its business. This is a land where oil and gas reigns.

Thousands of pump jacks, punctuate the horizon, adding interest to sunsets and testifying to the fact that this is oil country. Lonely rigs add light to the dark desert nights and the faraway sound of motors and clanking pipe break the silence, as hard-working men practice the art of "making hold."

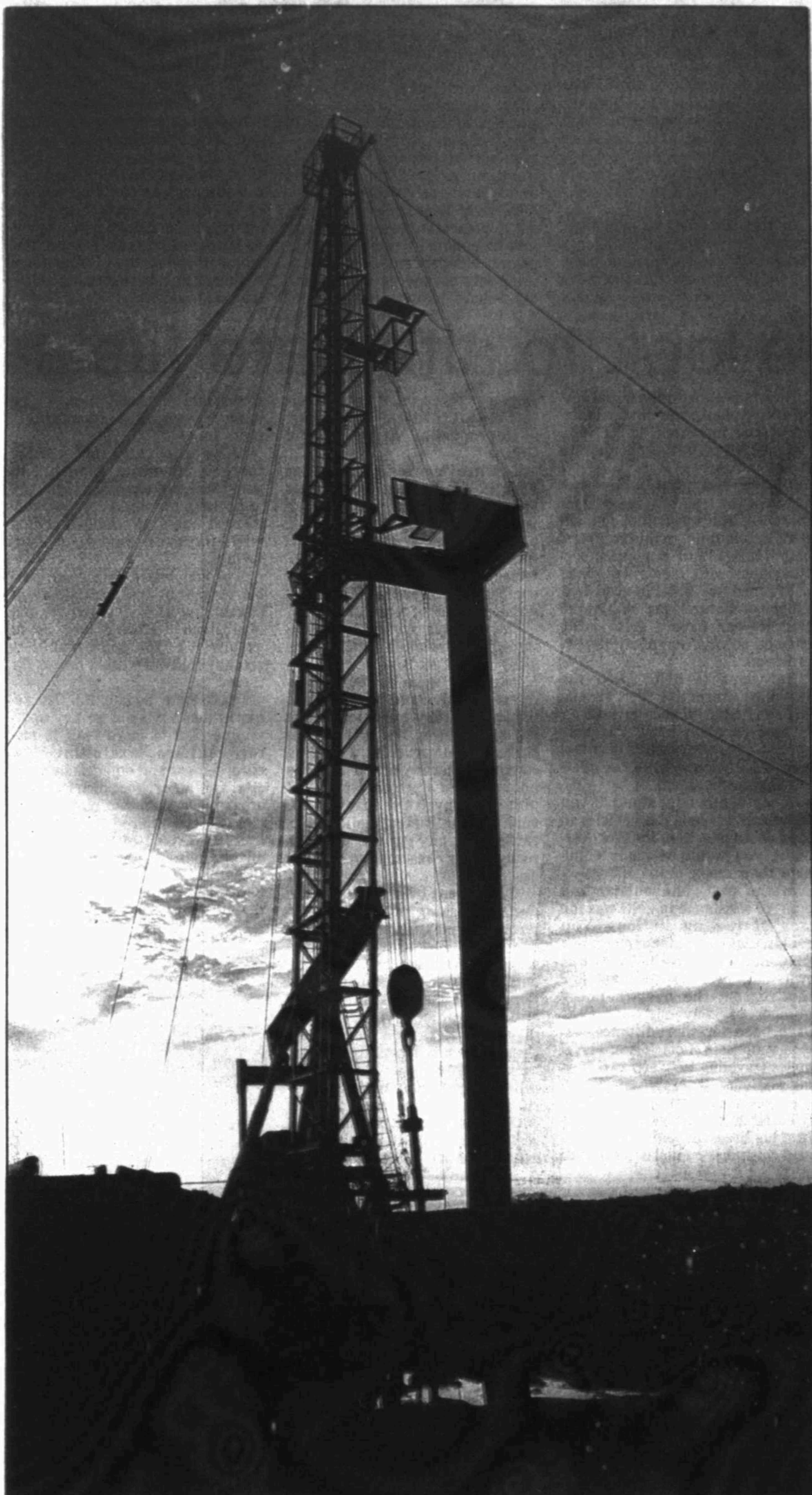
It is a land where oil dominates the lives of its residents — where oil prices are discussed more than the weather, and men, women and even children understand the harsh realities of "cheap oil" and words like "restructure" send chills down oilpatch spines.

A land which takes in parts of two states produces nearly 20 percent of the total U.S. domestic production, and 60 percent of the oil in Texas. The Permian Basin has no equal when it comes to oil and gas.



Driller Ken Masset operates an FWA drilling rig in the Spraberry trend, practices the honored tradition of making hole.

Page design:
John Paul Pitts



Curt Wilcott/Reporter-Telegram

Once a common sight, the lights of drilling rigs have become a rare sight as drilling has slowed. Rig counts are the pulse of the Permian Basin.



Joe D. Williams/Reporter-Telegram

A worker for Smith Energy Services checks equipment prior to heading for the field. Oil prices have a direct effect on service work.



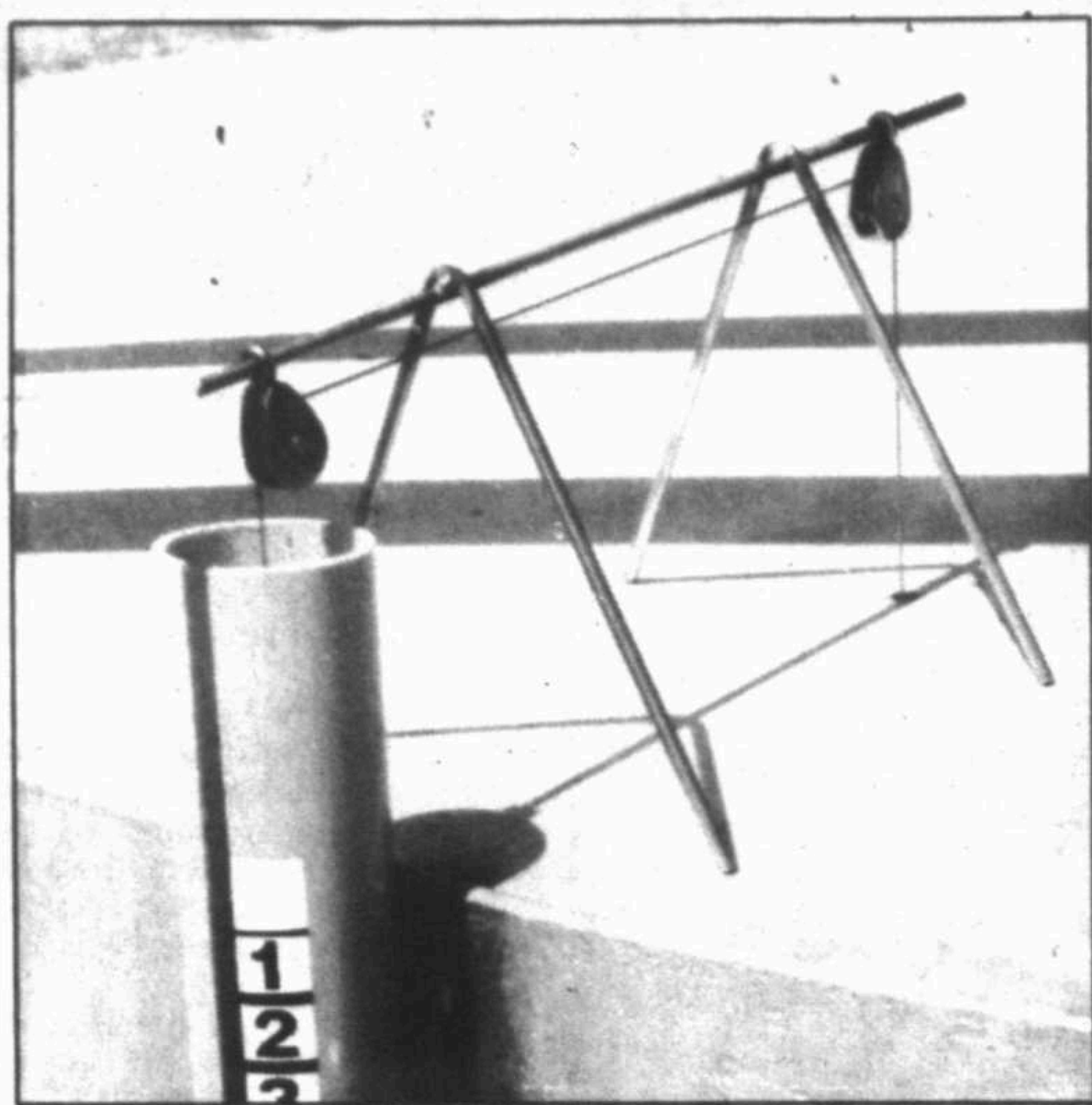
Reporter-Telegram

James Linn and his wife are close to the oilpatch. They live at the rig, in a travel trailer.



Curt Wilcott/Reporter-Telegram

A brooding cloud hangs over Midland as a lone pumpjack works away in the foreground. Like Odessa, Andrews, Hobbs and other cities in the Basin, its life line is the pipeline.



A simple pulley arrangement controls an indicator inside the numbered tube, allowing pumpers to remotely gauge tanks.

Simple process can be as effective as high-tech

Staff report

When Tank Safety Gauge of Big Spring sought to patent its unique tank gauge, the critics scoffed: "It's too simple. Someone has already thought of it."

The critics were wrong. Despite numerous sophisticated electronic gauging devices, some of which are even linked to satellite, no had ever thought of the simple float-pulley-indicator arrangement that makes it possible for lease operators to accurately gauge tanks without having to climb on top of them and manually check the contents with a gauge line.

"It goes to show that not everything new in the oil patch has to be high-tech to make producing oil safer, cleaner and cost effective," said Donnie Reagan, vice president of marketing for the company.

Not only does the simple process address the problem of keeping pumpers off oily and gassy tanks during rain, heat and snow. It also cuts the time needed to gauge a tank battery to less than 25 percent of the manual time, freeing lease operators for more productive tasks.

In the case of tanks that have the added hazard of hydrogen sulfide gas, the gauge eliminates the cost of a second pumper.

As a result of a recent explosion, in which a teen-ager was killed when he climbed atop a Chevron tank near Sherman and used a cigarette lighter to peer inside, some have expressed concern that new regulations could call for padlocks on tank hatches. Such a rule could significantly increase the time required to gauge tanks.



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TECH: Technology holds key to Permian Basin

(From 33CC)

Parker explained that the infrastructure for developing technology had been traditionally held by the majors, but now that the majors were moving overseas it was falling apart, and someone else would have to assume the role.

He said DOE would take a stronger position in technology transfer, and that the industry was now developing an umbrella organization to coordinate technology transfer to the independents, who would be left with the fields formerly owned by major oil companies.

"The energy future of the Permian Basin will be based upon two things — enhancing the economic

value of its reserves and growing new markets for natural gas," explained the former independent operator from Fort Worth.

He said just about everything DOE does in the future will be related somehow to tech transfer.

He gave an example of how the process works. "A small stripper operator has a well where the sucker rods keep parting. He can't very well afford to do extensive research to determine the cause, but we (DOE) can take the rods to a lab and determine why they keep failing."

In this instance, he explained, minute differences in metallurgy were detected that made it possible for the manufacturer to make a small adjustment at the factory

and take care of the problem.

"The operator was able to cut down on the number of rod jobs and reduce operating costs on his marginal wells," said Parker.

In another example, he said Exxon had been having trouble with a downhole logging tool that kept failing under high temperatures above 400 degrees. He said the tool was sent to Sandia Laboratories in Albuquerque, N.M., where several minor adjustments were made to extend its life from two hours to 200 hours at 400 degrees.

In early September DOE sent out representatives on a 24 city tour to conduct workshops to acquaint independents on how to work with the energy department. "You don't have to be afraid of

us," Secretary of Energy Watkins, "told Midland oilmen. You can work with us."

Parker said DOE was making every effort to keep bureaucratic hassle out of the technology transfer arena, and to make it easy for operators to work with the department.

"Operators will utilize technology transfer on three conditions," said Harry Spannaus, executive vice president Permian Basin Petroleum Association. "One, it must be of value. Second, it must not be burdensome by bureaucracy. The moment independent operators run up against bureaucratic hassle they will check out."

Producers look to alternate fuels

By Johnnie Montgomery

In the Permian Basin, with its supply of natural gas, even small businesses and operators have hopped on the alternative fuel bandwagon in steadily increasing numbers after observing some of the benefits, such as reduced engine wear.

Compressed natural gas and liquid petroleum gas — CNG and LPG — are becoming more and more in demand, because they make sense from economic and environmental standpoints.

Independent operator J. Cleo Thompson converted his first vehicle to CNG nearly four years ago. The first conversion was on a field vehicle in Ozona, where it was filled up at a 900-pound compressor supplied from a company-owned gas well. Since that time, Thompson has converted another 18 vehicles.

Whenever his employees trade in an old vehicle, replacements are equipped with CNG tanks. Two factory-equipped vehicles are currently on order. Thompson says he likes vehicles to have at least 1½ years' use left in them before he equips them for CNG.

Sixty to 65 percent of the cost of conversion is in the vehicle's storage tank, which can be expected to last about 25 years.

"Most of the equipment you put in a vehicle can be transferred to a third or fourth vehicle," he said. By using company-produced gas, Thompson's conversions paid out in about 20,000 miles.

He said even with the initial cost of conversions, the low maintenance and increased life of vehicles on CNG make it economical to switch.

"When the public becomes aware of the true benefits, I think there will be a substantial demand that automobile manufacturers, both foreign and domestic, provide them with factory-equipped CNG tanks. We have an abundant supply of natural gas within the U.S. We can have a great influence on solving our many import problems..."

He wants to help speed the switch to alternative fuels for the environmental impact as well.

"There is really not a true comparison between gasoline or diesel (and CNG) when you're considering the environment."

"Keep in mind one thing: If you could convert half the vehicles in the Los Angeles area to CNG overnight, you would virtually eliminate their smog problem."

In the past, one outstanding point of resistance to CNG was the lack of fueling stations. You couldn't take an extended trip in a CNG-fueled vehicle without switching over to gasoline. For this reason, the overwhelming number of conversions to CNG have been for short-distance service vehicles, school buses, or vehicles traveling between two fueling stations.

However, it's getting increasingly easier to fill up with CNG. The first big breakthrough for the private consumer came last year with

Energas's three retail installations that are a CNG tank's drive apart — in Amarillo, Lubbock, and Odessa.

Energas marketing manager Fred Phillips says while Energas does not sell the equipment to convert to CNG, they keep a list of people who do, and will make referrals to anyone needing that information. Energas has had its company fleet running on CNG for a number of years.

The Energas stations were designed and installed by CNG Services Inc. of Midland.

President Leslie Forster says interest and demand for information has steadily increased in the last six months. The company is currently constructing a fueling station for the city of Garland, the pilot phase of a project which will ultimately involve as many as 500 vehicles. The fueling station is located at the city's power plant, already a big consumer of natural gas.

"They spent over a year in the decision making process, and determined that natural gas was the way to go," Forster said. Garland's school buses have been running on CNG for the past eight years. Forster says she thinks the success and economic advantages the school district experienced confirmed the city's decision to convert to natural gas.

Forster said that many smaller operators with vehicles traveling 30,000 plus miles a year may not realize they could convert to natural gas and pay out the cost of the

conversion and installation of a fueling station in a surprisingly short time.

"Also, they may not realize there is financing available in many cases," Forster said she can often help schools, cities or commercial users to find financing with payback based on fuel savings.

"I would really encourage people to look at the possibilities of converting their fleets. People hear about CNG and they never explore it to the point that they actually find out what it means for them."

Texas State Senate Bill 740 requires that any state agency operating a fleet of more than 15 motor vehicles, excluding law enforcement and emergency vehicles, and any school district operating more than 500 motor vehicles will be required to operate at least 30 percent of their vehicles on alternative fuels by 1994. By 1998 this requirement will be 90 percent.

Conoco is one major operator running on LPG as the alternative fuel of choice.

According to environmental coordinator Judy McLemore, Conoco's Midland division began in 1990 to convert its 176 field vehicles to LPG and finished the conversion in early 1991. Now there are 202 LPG-run vehicles in the Midland division.

"It was an environmental decision, but it was an economic decision as well," McLemore said.

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Chemical industry keeps pace with oil patch

By Ellen Hopkins

A state of constant change accurately describes the chemical industry, which is trying to keep pace with new demands in the areas related to the environment, reporting, technology and producer relations.

Jim Davis, operations manager with Tretolite Chemicals and Services, said his company will continue to invest in innovative programs and techniques to ease the work of oil-related companies.

"If we wait for our customers to ask for something new, it will take longer to implement than they are willing to wait," he said.

A critical consideration deals with the area of safety, health and the environment.

Davis said chemical companies are required to invest in spill containment devices to eliminate the chance of a chemical touching the ground.

Davis said Tretolite has developed containment equipment with

registered trademarks. They've also assured that all their personnel who use chemicals have been educated in proper handling.

"Federal regulations stipulate that anyone who comes in contact with chemicals be versed and educated about them," Davis said.

He explained that belonging to the Chemical Manufacturers Association (CMA) keeps Tretolite abreast of local, state and federal regulations.

"Our affiliation with CMA allows us to be in the forefront of changes in the chemical industry," he said. "Our Petrolite office in St. Louis has a department that oversees this work. It's known as SHEA — Safety, Health, and Environmental Administration. We have SHEA reps throughout the company."

Davis said reporting is another area of change. "We report the composition of every chemical, complete material safety data sheets, and do a lot of other re-

quired paperwork."

Changes in the chemical industry also include new products.

Richard Findley, general manager of Technical Operations for Champion Chemicals in Houston, said development of new types of chemicals is continuous.

"We're always trying new types of corrosion inhibitors tailored to specific needs," he said.

He cited various applications of scavengers to treat H₂S out of gas streams. He also described a relatively new scale inhibitor product that is tolerant to high calcium and temperature, and a state-of-the-art demulsifier for use in steam flood applications.

Industry attention has also been focused on an advanced technique for applying corrosion inhibitors.

Davis said Tretolite has developed a patented structured fluid through which the corrosion inhibitors are applied. Its time-release manner is innovative, and inhibitors for scale are also being

studied.

Scaling is just one area of change Davis pinpoints.

"We see that problems downhole are three-fold: scaling, asphaltines and paraffins choke production."

"Drilling activity has dramatically decreased and producers are trying to squeeze more out of existing production," he said. "It's not a simple task to apply chemicals at random because each well and composition of materials downhole is different."

Dave Ellis, regional technical manager for Tretolite, said these differences in wells are taken into consideration in an innovative laboratory modeling and testing program.

"We take information from a producer about a well, input it to our modeling program, and it reports which chemicals to use and the best application techniques. We model reservoir conditions and absorption characteristics,"

Ellis said.

Davis said the modeling program is based on historical information, experience, knowledge of the behavior of chemicals, physical parameters of each well and scientific data. The result is a prediction of why a particular treatment will work and how long it will last, all with a lot less trial and error than other methods.

The economic benefit to producers is the modeling program's ability to manipulate the data for specific wells.

Companies like Tretolite and Champion are looking for ways to improve business-to-business relationships for the economic benefit of all concerned. Davis said one way is to streamline internal operations. "The company's Quality Improvement Process necessitates that we cut down on waste and develop consistency in operations, sales, marketing, billing and invoicing."

New tubing inspection system set

Staff report

A new system developed by Tuboscope Vetco is expected to make the job of tubing inspection more efficient, while saving operators costly downhole failures and production downtime.

The system, begun in July by Tuboscope Vetco International Inc., is a wellhead inspection system that is placed on the well-servicing unit and allows tubing to be inspected at speeds up to 250 feet a minute as it is pulled.

"The WellChek system is designed to provide our customers with cost-efficient, cutting-edge inspection technology," explained William V. Larkin Jr., president of Tuboscope. "Never before have we been able to (so quickly) offer our customers at their well site such precise data about the condition of their used tubing."

Tuboscope says the system can prevent costly tubing failure by routinely checking the status of their downhole tubing, and when a failure does force an operator to shut down, a WellChek inspection will quickly get the well back into production.

The state-of-the-art system utilizes microprocessor technology and an advanced probe to detect defects.

BLM booklet clarifies federal, reservation rules

Staff report

A publication published by the Department of the Interior's Bureau of Land Management will make it easier for New Mexico operators to understand BLM requirements.

"Onshore Oil and Gas Order No. 1" clearly spells out requirements for approval of federal and Indian reservation onshore oil and gas operations.

It provides operators with a clear checklist of what requirements have to be met to get approval of exploratory, development, or service wells, and assures that environmental protection has been properly considered.

"Onshore Order No. 1, Approval of Operations" covers conduct of operations on federal and reservation oil and gas leases, including applications to drill on a lease; subsequent well operations; abandon-

ment; and environmental and safety obligations.

The proposed revisions also address the submittal of a complete application for permit to drill (APD), including a drilling plan, explaining surface use including on-site pre-drill inspection, public notification, coordination with other surface management agencies, agency deadlines and time expectations, and federal and operator responsibilities.

For example, the proposed revisions would codify two requirements of the Oil and Gas Leasing Reform Act of 1987 affecting processing of APDs.

One requirement of the law adds a provision for public notification of a proposed action before approval of an APD or substantial modification of the terms of a federal lease.

The other requirement gives authority to the Department of Agri-

culture's Forest Service to approve and regulate the surface-disturbing actions associated with oil and gas wells on National Forest System lands and to determine reclamation requirements on those lands.

The revised order would also clarify that the National Environment Policy Act, the Endangered Species Act, and the National Historic Preservations Act require the BLM to regulate exploration,

development and abandonment on split-estate lands (private surface overlying federal minerals) in essentially the same manner as leases overlying federal surface.

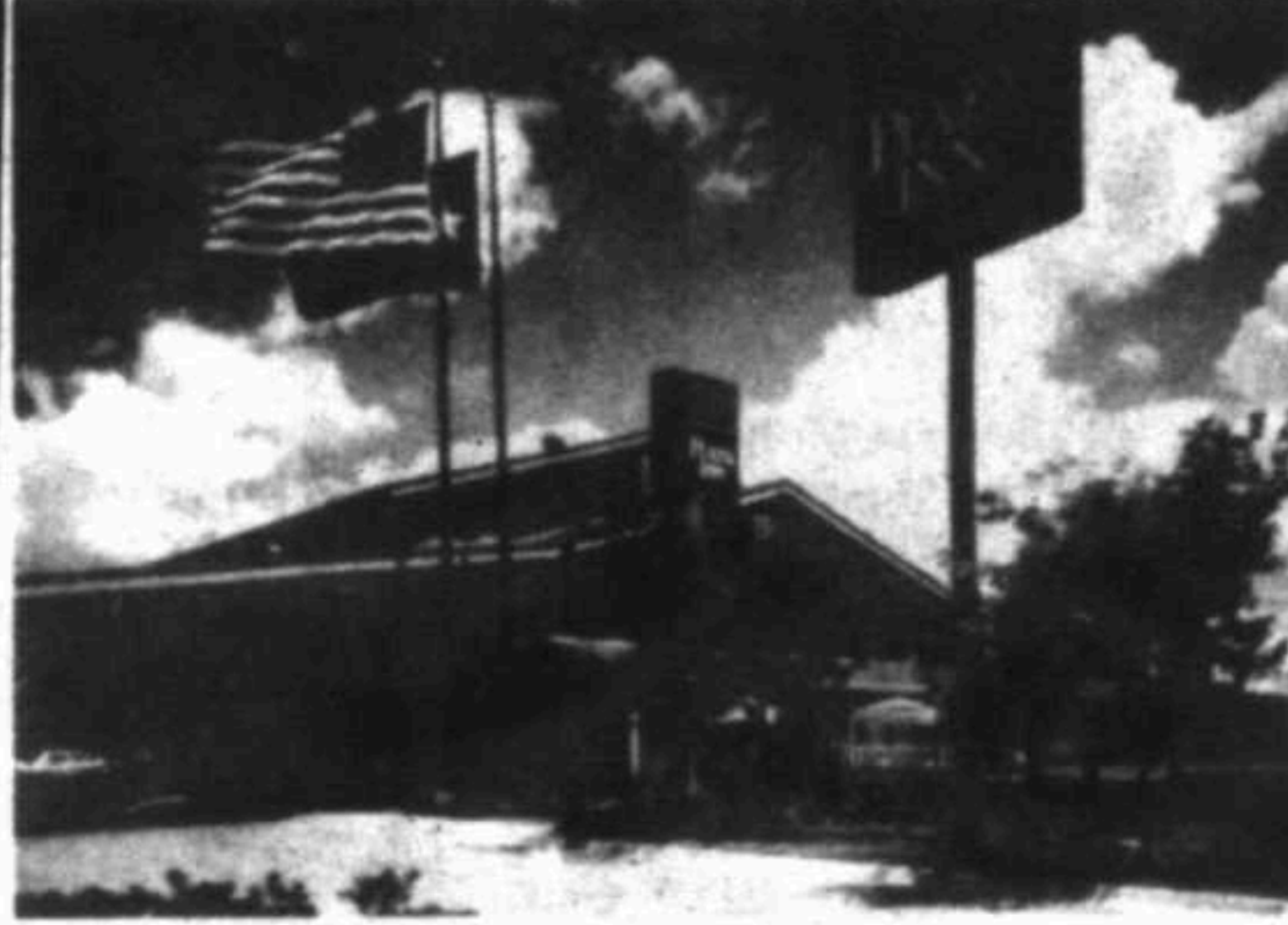
In addition, since publication of Onshore Order No. 1, the BLM has instituted a new policy governing approval of mineral-related rights-of-way.

All requirements needed to approve a BLM right-of-way must still be met before it can be grant-

ed, whether or not it is mineral-related.

However, it is now BLM policy that right-of-way applications in support of oil and gas wells can be initiated through APDs in lieu of a formal right-of-way form.

Order No. 1 was the first in a series of nine BLM is issuing to implement federal regulations covering oil and gas lease operations on federal and Indian reservation lands.



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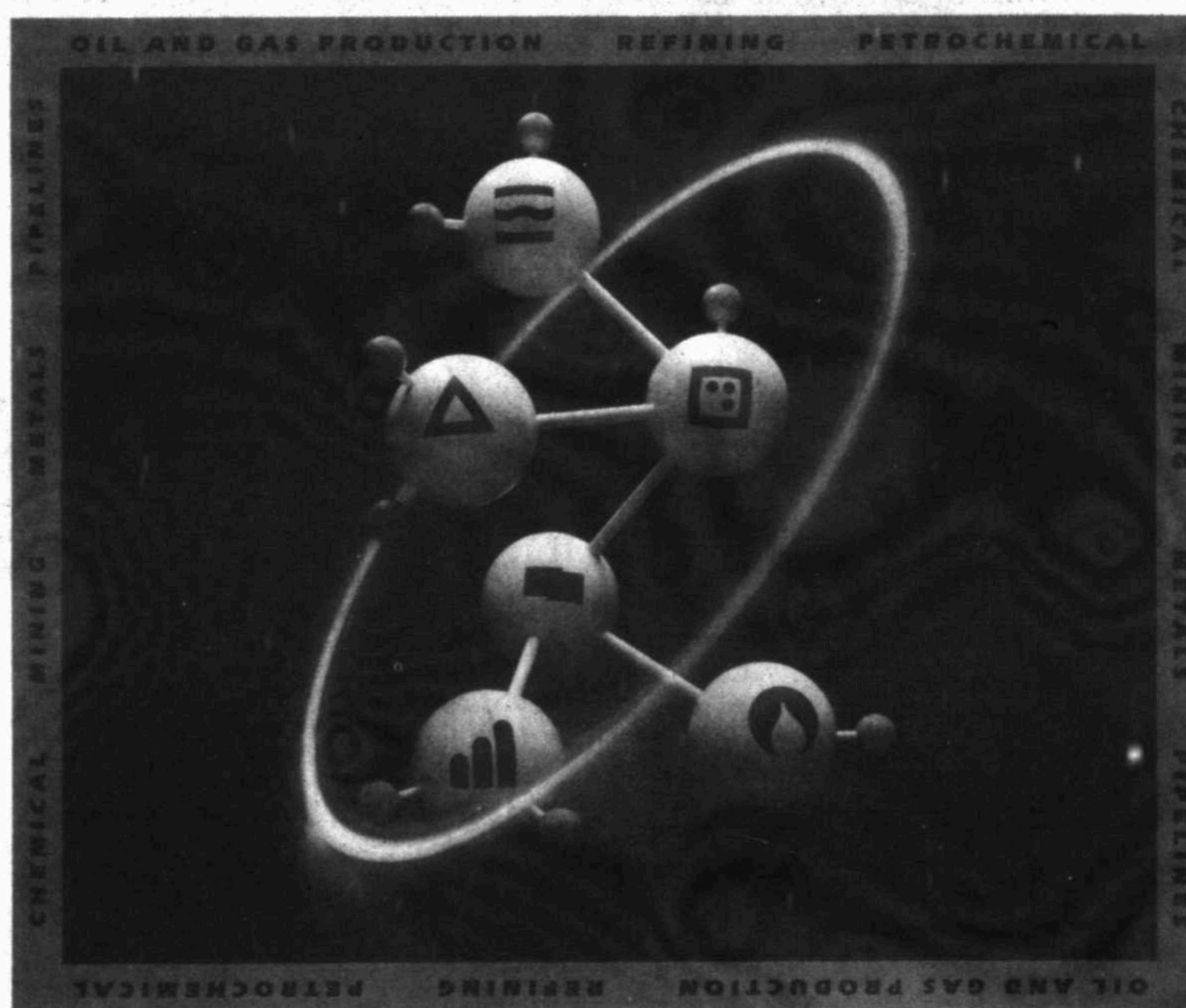
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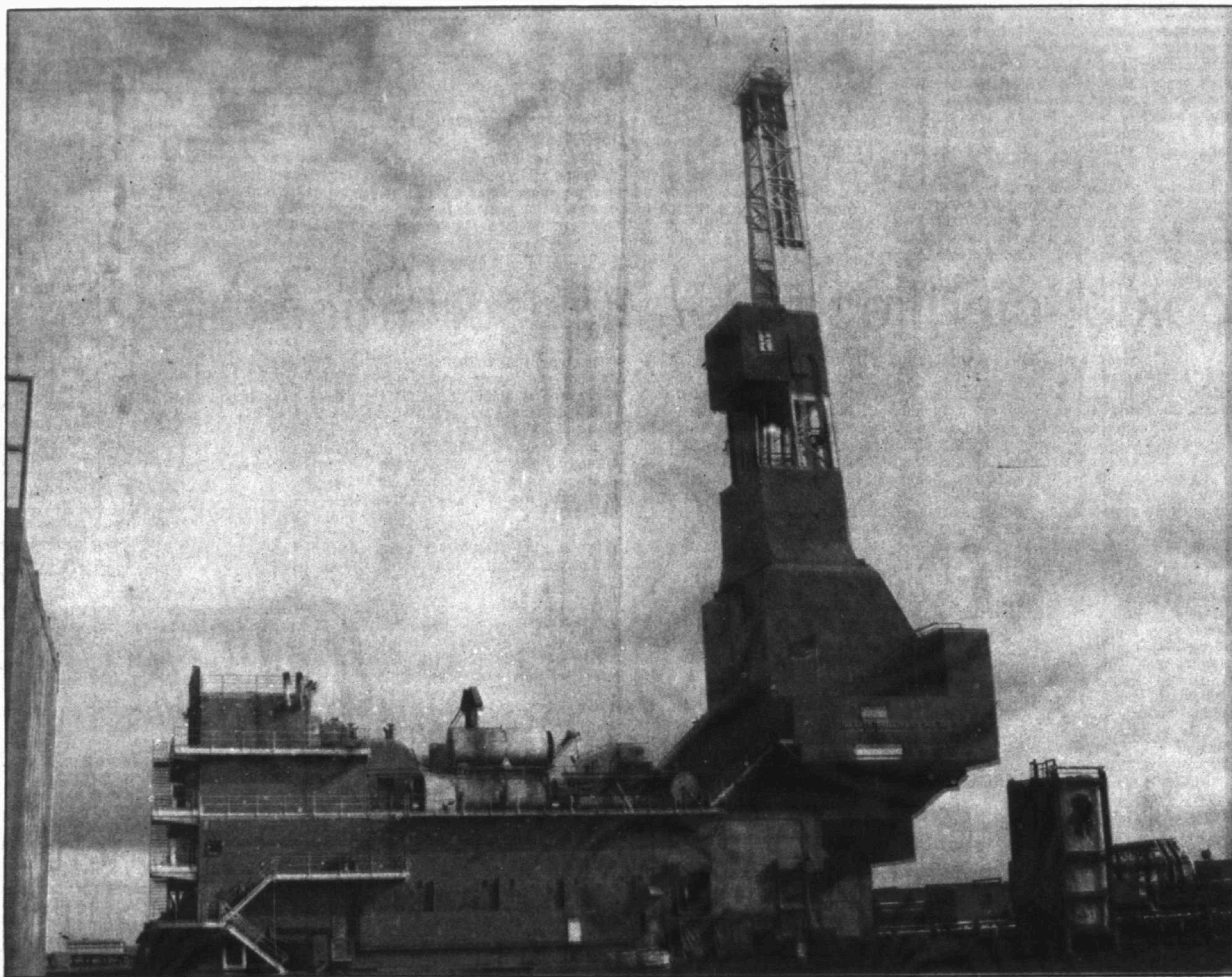
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INSIDE



Safety first

Working on rigs, such as the one above, continues to become a safer proposition in the oil patch. While oil companies have always had safety programs in place, tougher federal and state laws, as well as a large jump in lawsuits and insurance costs, have prompted companies to increase their safety programs. Programs cover a wide range of topics, from hydrogen sulfide safety to the containment and clean-up of hazardous waste spills.

Please see **SAFETY/50DD**



Instant answers

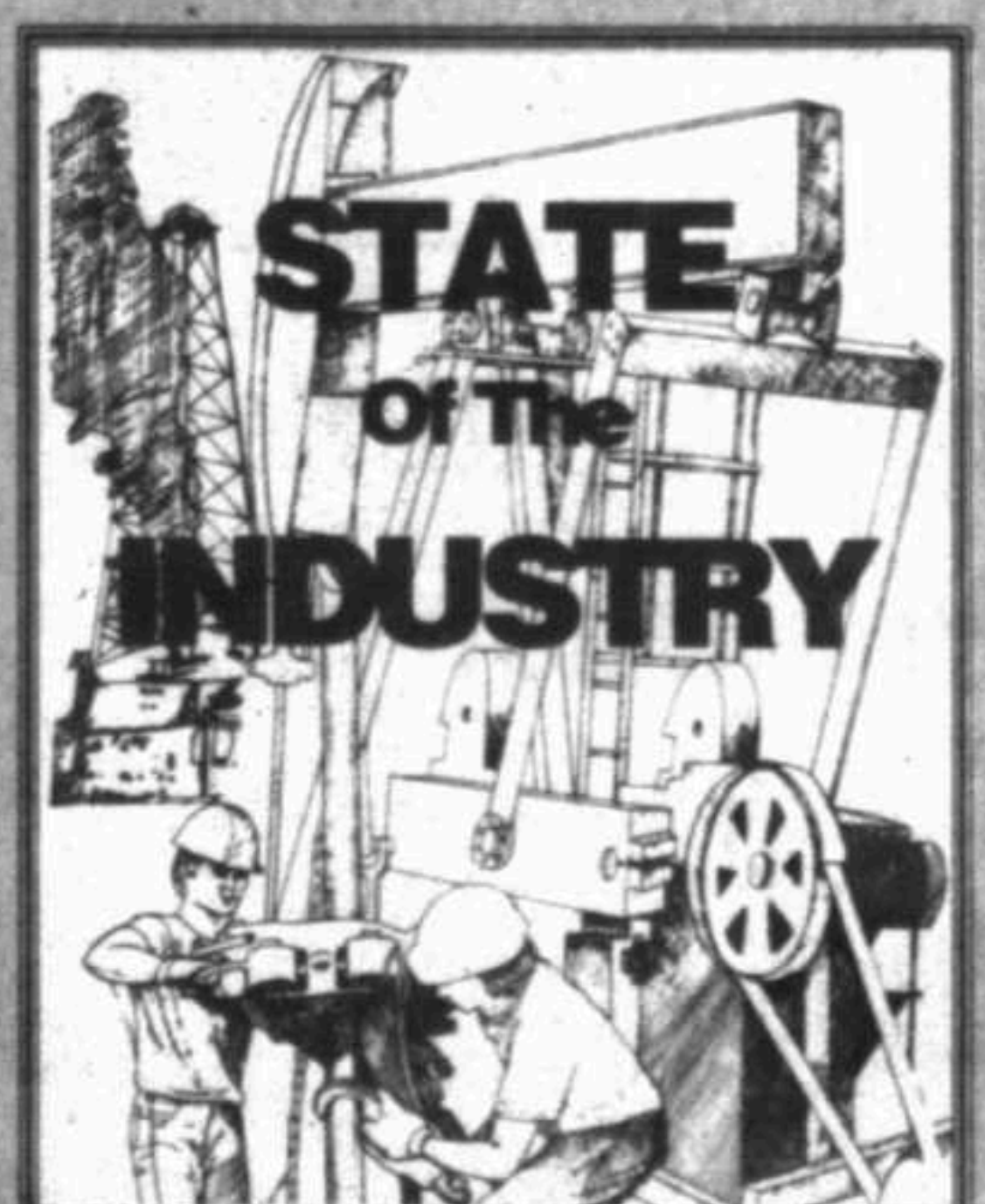
Getting answers from the pumpjack to the office quicker is a growing industry in the oil patch. Advances in communications technology can now get oil and gas operators instant answers from the field, thus helping decide how and when to treat a well, and providing a record of how a particular well is pumping.

Please see **ANSWERS/59DD**

Oil building

While Big Spring and San Angelo offered roads, office buildings and hotels to the oil industry in its early days, Midlanders with an eye to the future helped insure that Midland would become the headquarters city of the Permian Basin. Men such as T.S. and Fred Hogan, who built the Petroleum Building, Clarence Scharbauer, who built the Scharbauer Hotel, helped fuel Midland's growth.

Please see **OFFICE/60DD**



Changing

The oil patch is now undergoing many changes but faces many more in the future. This section covers some of those changes, including safety and environmental concerns.

For other state of the industry news see the following section.
■ SECTION EE Natural Gas
■ SECTION FF Local



A pump jack overshadows a production map of the Permian Basin. Both the oil industry and the Permian Basin are now in a state of great change which is likely to continue for the rest of the decade.

Changing times

By John Paul Pitts
Business/Oil editor

There is one thing about the oil business that can always be counted on — change. Technology, regulations, prices, politics are always on hand to insure that what's in today will not be the same tomorrow.

At the present the Permian Basin is undergoing dramatic change in all sectors:

Majors oil companies are selling out to independent oil companies, as they cut thousands of wells and tens of thousands of employees and head overseas. The majors will get smaller in the Basin, while the independents will get larger. Parker & Parker is already the largest employer in Midland and drills more than any major oil company. In New Mexico the top driller is another independent, Yates Petroleum Co. of Artesia. We can expect more such independents to develop with major oil company acquisition.

Secondary projects are coming to the end of their economic limits and are going to tertiary — the next

■ Analysis

generation of enhanced oil recovery. The Permian Basin Petroleum Association recently held a seminar on carbon dioxide flooding potential for independents. More such seminars will be held as independents take on the task of converting water floods to CO₂. Fortunately for independents, major oil companies have already worked out most of the bugs and built most of the infrastructure for tertiary projects.

The threat of an environmental dooms day, perpetuated by eco-terrorists looms over the oil patch. A new challenge facing the industry will be to keep environmental extremism from shutting the industry down with excessive regulation and costs.

Natural gas which has been regulated for almost 40 years is finally being deregulated. FERC Rule 636 opens a whole new marketing game, makes it easier for

Please see **CHANGE/58DD**

Companies emphasize importance of safety

■ More and more oil companies are improving their safety programs.

By Mella McEwen
Staff writer

Working in the oil field has always been potentially dangerous work, and oil companies for years have conducted safety programs to keep employees safe and on the job.

But now, the industry is placing a greater emphasis on safety, with each company refining its safety programs.

Most changes are made out of concern for the employees, but many of the refinements have been mandated by state and federal regulations, such as H&S and spill prevention and control training.

The "bottom line" is also a consideration. A number of safety directors point out that it costs less to emphasize safety than it is to pay for an employee's injuries.

And safety can help the bottom line. Ken Self of Meridian Oil Co. reported that, because of the company's safety programs, worker compensation costs are now 20 percent less than what they were.

These directors also note that, with many oil companies today running lean operations and depending on fewer employees to do more work, having an employee out with an injury can be a hardship.

As Lonnie Ashley, safety and occupational health coordinator with Conoco Inc. put it, "If you don't have enough employees any way and you get someone hurt for a long period of time, you've lost that employee."

Most of the safety directors begin with the philosophy that safety begins with the individual employee.

One such director is Self of Meridian, senior safety representative, who said Meridian's safety programs begin with the individual employee. He added that the government can mandate all the safety training in the world and management can establish all the safety programs it wants, but they are useless unless the employee makes a commitment to safety.

He emphasized that cost is not a factor in the company's safety programs. He said employees are encouraged to bring up any concerns they have, and they will be corrected without regard to cost.

Major safety programs include H&S and lock out-tag out programs and others dictated by the Occupational Safety and Health Administration, and defensive driving courses. Defensive driving has helped reduce the number of accidents involving Meridian employees from 12 in 1988 to none in 1991.

There are also safety programs



File Photo

A drilling rig is one of the most hazardous sites in the oil industry, and oil companies are paying particular attention to their employees.

for office employees. Self said, "When we started the safety program, the focus was on lease operators. We neglected the people on the office staff. The last two lost-time injuries we had happened in the office, so we can't forget about them."

A safety director with what he calls a "realistic" point of view is Rick Eicher at Yale E. Key Well Service.

He said his company has safety programs ranging from first aid to spill and response to medical emergencies, adverse weather conditions, fires and explosions, to hearing conservation and drugs and intoxicants.

While he supports many of these programs, Eicher said, "I believe in programs that will, in fact, establish a safer work environment. But I look at it from a realistic point of view, not an idealistic point of view; I believe you can't prevent all accidents because of the human factor."

He said by convincing the employee in the field that the company is genuinely concerned about his safety and that of his family, the worker will more will-

ingly adopt safer work habits. He said that creating a safe work environment also takes commitment from the top management on down throughout the organization.

"There are so many rules and regulations designed to make it safer, but the bottom line is, the workers have to believe in you and your safety program or all the rules and regulations in the world won't work."

Conoco has adopted the philosophy that all injuries can be prevented, and holds management responsible for preventing injuries. But, said Ashley, "each individual ultimately is responsible for his safety and those around him."

Each employee at Conoco has not only the authority but an obligation, he said, to stop any unsafe operation or act.

Like other companies, Conoco offers all the training and tools required by law to handle, for example, H&S safety training and responding to hazardous material spills.

Please see SAFETY/51DD

Environmental barriers force major producers overseas

■ Point Arguello is classic example of why oil companies are reducing domestic exploration.

N.Y. Times News Service

LOS ANGELES — Oil companies are exporting more of their exploration budgets to foreign countries as they cut back on domestic spending because of environmental barriers.

With potential domestic reserves either off limits or restricted with environmental regulations, companies find it's more profitable to look for oil elsewhere.

The majors plan to reduce domestic budgets by 20 percent this year while independents are cutting back 18 percent, New York-based Salomon Bros. said in its midyear analysis of worldwide oil and gas exploration and production expenditures.

Salomon surveyed 247 companies and concluded that they were making cuts in their

spending on U.S. and Canadian activities.

As recently as 1985, San Francisco-based Chevron Corp. spent 68 percent of its billion-dollar-plus exploration and production budget in the United States.

But this year the company plans to spend 40 percent of its \$5.3 billion exploration budget domestically.

Industry executives long have complained that they have been burdened with a daunting array of rules and regulations that drive up exploration costs and stripped the industry of jobs.

Chevron's 10-year battle over the Point Arguello oil field is a case in point. Chevron and its 17 partners in the project off Santa Barbara, Calif., spent an estimated \$2.5 billion developing a field expected to yield between 300 million and 500 million barrels of oil. That's enough oil to supply 1.5 million cars with gasoline for 20 years, said Chevron spokesman Mike Marcy.

Initially, Chevron wanted to use tankers to ship the crude to its Los Angeles refinery but

that plan was opposed by environmental groups. Last month Chevron sought a temporary tankering permit while a new pipeline is built.

Santa Barbara County supervisors approved the permit but attached conditions the oil company says are unacceptable. The matter will go before the California Coastal Commission.

The consortium has not brought the field to full production since the project was completed in 1987.

Limited production began in 1991 with output about 48,000 barrels a day, less than half its capacity, because there are not enough pipelines to transport the oil to Los Angeles, the company says.

And since the consortium developed Point Arguello in the early 1980s, oil companies have been virtually banned from any new exploration projects off either the East and West coasts because of environmental concerns.

Environmentalists defend regulation as justified by the industry's past performance, in-

Please see MAJORS/51DD

Oil platforms have space applications

HOUSTON (AP) — Leaders of Oceaneering International Inc. believe the diving and robotic technology they have developed for working underwater on offshore platforms also can be useful on the space frontier.

There are close parallels between working in the depths of the ocean and outer space, said Art Stephenson, vice president and general manager of the Oceaneering Space Systems Division.

"NASA has done an excellent job of recognizing the value of this experience and applying it to the

space station," Stephenson said. "We anticipate contracts on the space station that will move us into flight hardware."

Both space and deep water are hostile environments that require special equipment designed to withstand great differences in pressure. But Oceaneering has solved some of the same basic problems in its diving that the National Aeronautics and Space Administration confronts in space.

"We have a proposal to McDonnell Douglas to build a tool to enable a robot to grapple a piece of equipment. We would provide the

tool on the end of a robotic arm and a grapple attachment to the equipment that the tool would grab," Stephenson said.

Years of providing life-support systems for divers also has taught Oceaneering officials lessons that are applicable to outer space. For instance, those in Oceaneering's diving operations proudly point out that they have long used foot-operated controls for divers to control their WASP atmospheric diving suits, leaving their hands free for work, while NASA's manned maneuvering units still rely on hand controls.

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MAJORS: Barriers hurt domestic oil producers.

(From 50DD)

cluding spills such as that involving the Exxon Valdez tanker in Alaska's Prince William Sound.

"These (regulations) have all been costly, but not nearly as costly as the accidents that could have happened if those measures had not been in place," said Bob Sollen, offshore oil policy coordinator for the Sierra Club's Santa Barbara chapter.

Sollen said that the county's environmental coalition met recently and reaffirmed its support of the supervisors' position.

"We would prefer no tankering, period," he said. "Tankering is an extremely hazardous activity right off our coast."

Bill Wallace, supervisors' chairman, blames Chevron for any delays, saying the company delayed pipeline plans.

"Chevron has been shooting themselves in the foot ever since they have approached the county," he said. "It became patently obvious that they have no intention of building a pipeline unless it was forced on them."

The county and environmental groups support plans for a pipeline, but there is no guarantee environmentalists or government agencies in nearby Ventura or Santa Barbara would follow suit.

Chevron's Marcy claims the county permit is worthless.

"The board issued a bogus tanker permit that is the equivalent of a submarine with screen doors on it," he said.

Oil industry analysts say this kind of confrontation shows how local opposition can keep billion-dollar projects tangled in legal wranglings for years. It's also seen as a factor in the loss of more than 400,000 oil-related jobs in the last decade.

"What kind of crazy circumstances would allow an oil company or group of oil companies to tie up 2 or 3 billion dollars as they fight their way through a regulatory morass and a minefield of obstacles that are thrown up by people who purport to be saving the nation and protecting the environment," said Anthony Banham, an analyst at Simmons & Co. International, a Houston-based investment banking firm.

Chevron has said that the delays at Point Arguello have cost the project's partners, which include White Plains, N.Y.-based Texaco Inc. and Bartlesville, Okla.-based Phillips Petroleum, at least \$100 million.

Combine these kinds of factors with bans on exploration in areas such as Alaska's Arctic National Wildlife Refuge and off both coasts and it simply makes it more profitable for companies to invest elsewhere.

"We have no alternative but to invest money overseas," said American Petroleum Institute spokesman Earl Ross.

SAFETY: Companies refine programs

(From 50DD)

Other safety programs include safety leadership seminars held for all division employees, a safety climate survey of all exploration and production employees, where employees are asked to point out what they feel could be improved, and pre-job and daily morning safety meetings.

The division manager has established safety councils in the office and in the field.

The company has a Safety Leadership challenge contest and Safety Sentinel recognition program. Ashley said, "while we do give awards, we're not buying safety... our employees realize their real award is getting to go home every night safe and sound."

Like Conoco employees, Exxon workers who observe an unsafe action or condition have an obligation to intervene and address the situation, said Wayne Achee, production manager.

"To help our employees do this, we have trained safety leaders in all of our field and office locations and a safety department that stewards a variety of proactive programs. Our safety training programs vary from off-the-job areas such as lawnmower safety to job-related education such as First Aid/CPR and respirator training."

He said safety has been a core value throughout Exxon's history.

Like other companies, TMBR/Sharp Drilling offers the required training in a number of areas such as H&S, HAZCOM or

'There are so many rules and regulations designed to make it safer, but the bottom line is, the workers have to believe in you and your safety program or all the rules and regulations in the world won't work.'

— Rick Eicher, Yale E. Key Well Service

right-to-know, HAZWOPPER, and first aid law requires at least one person on location be trained in first aid and CPR.

"It seems like about on a weekly basis, either OSHA or the EPA or someone is coming up with new standards and regulations for the industry that require us to do certain training to be in compliance," said Dwight Rambo, the company's safety director.

Some new training programs facing the company are HAZWOPPER, which deals with hazardous materials spills, the clean-up and notification of proper government agencies, and what Rambo calls the Bloodborne Pathogens Standard.

"These are all equally important because they pertain to the industry. This is a dangerous occupation, but it's gotten to the point where safety is a major concern not just with drillers but with the majors. Safety has to be a number one priority not just for economics but because we can't afford to get people hurt. The company has too much invested in equipment and personnel."

He said TMBR/Sharp, in addition

to its training programs, has an extensive drug screening program that includes random testing and pre-employment screening and testing after each accident. In addition, employees go through pre-employment testing at Odessa Physical Therapy. The are given a stress test to see if they're capable of doing the work and to see if there are any pre-existing conditions that could prevent the employee from doing the work or cause problems in the future.

He said the company's programs — and those of other companies — have helped lower the industry's accident frequency.

Rambo said he believes those working in the oil field are changing their attitude about safety, and the random testing has helped decrease the incidence of substance abuse.

Schlumberger's safety efforts have brought it the "Safety in Seas" award from the National Ocean Industries Association for its New Employee Safety Training (NEST) program.

Steve Barts said the NEST program is one of several safety programs the company has, all with the goal of continuous improve-

ment year to year.

"We emphasize awareness through local programs and specific training required through state and federal regulations and various customer-required training," he said.

The company has found that one of the biggest risks is driving and so has established a defensive driving school that it shares with Dowell Schlumberger in Kellyville, Okla.

In addition, the company found that 84 percent of its lost-time accidents involved heavy lifting, so it developed Move-Smart, comprised of nine basic techniques for stepping and heavy lifting. The course is designed to teach how to keep balance, handle packages, walking up and down stairs and proper lifting.

"We've already seen a significant impact," Barts said. "This gives them something they can work with and take to their families. We believe in including the whole family unit."

Emphasis on safety will most likely continue to grow among oil patch employers, whether out of concern for employees or because new programs are required by state or federal regulations. The companies are finding that a safe work environment and healthy employees are just good business, both economically and from a human standpoint.

As Rambo of TMBR/Sharp said, "I just don't feel it should be part of the job classification for a roughneck to get hurt. We want our workers to know they can come to work and not get hurt."

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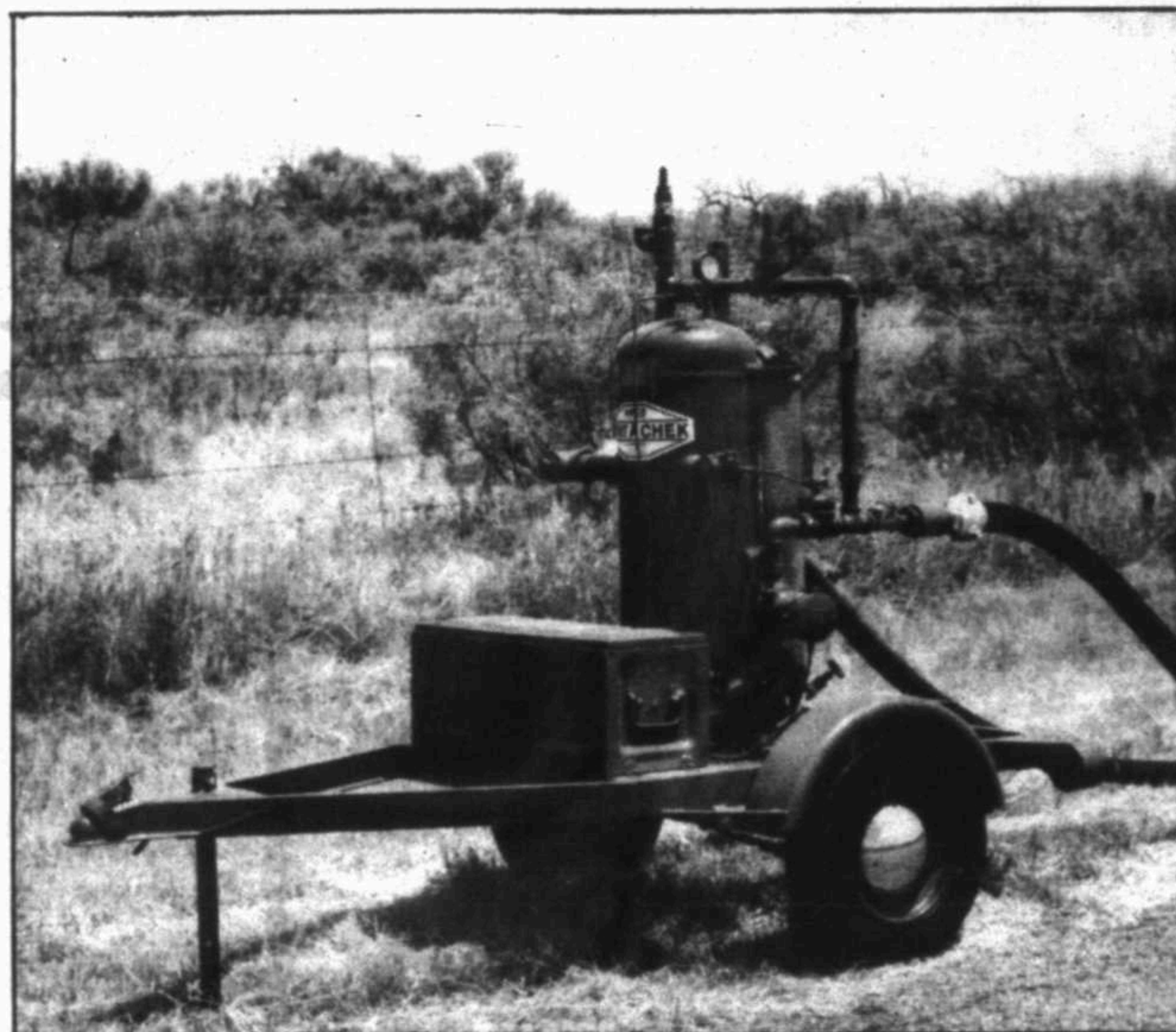
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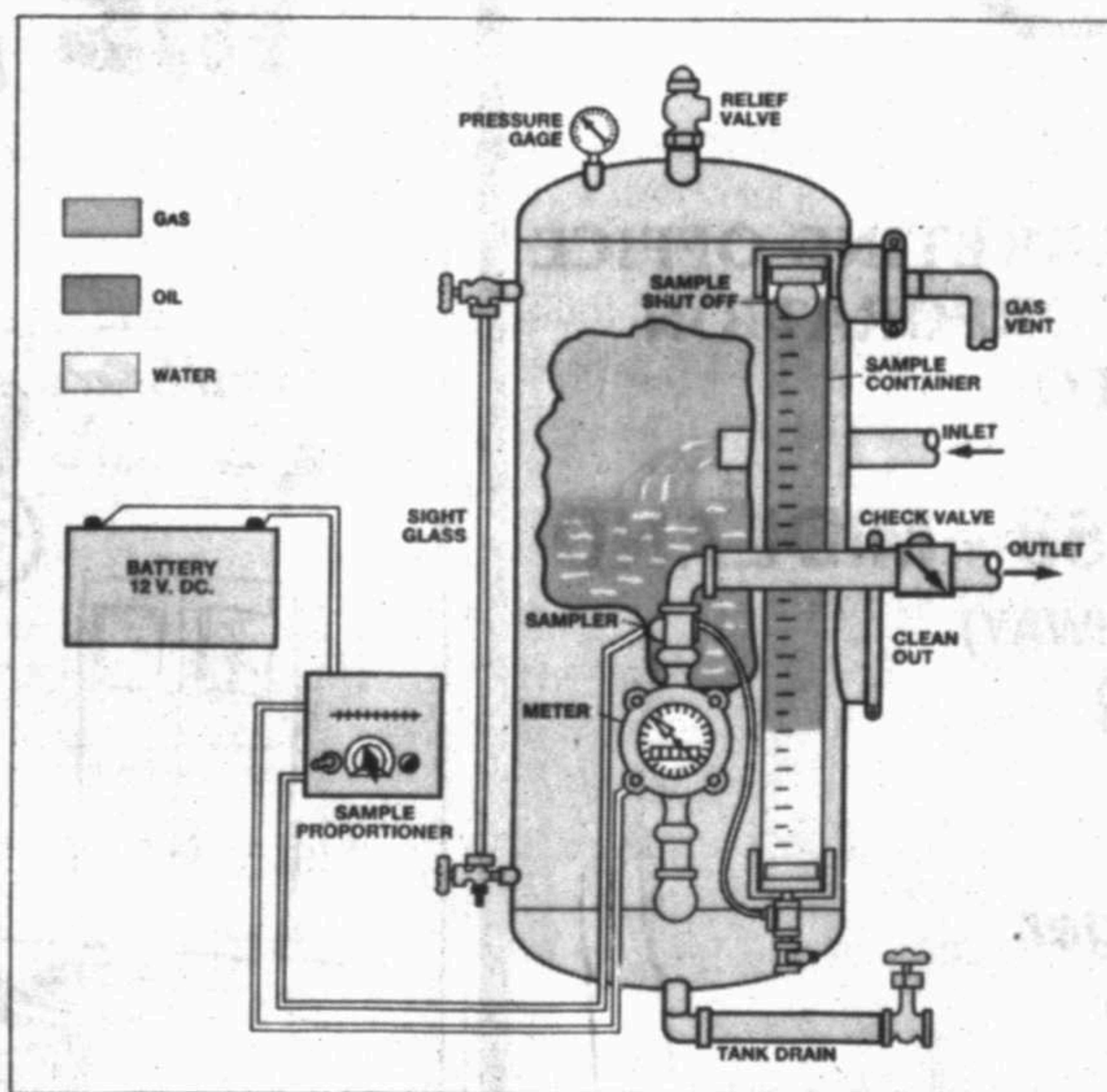
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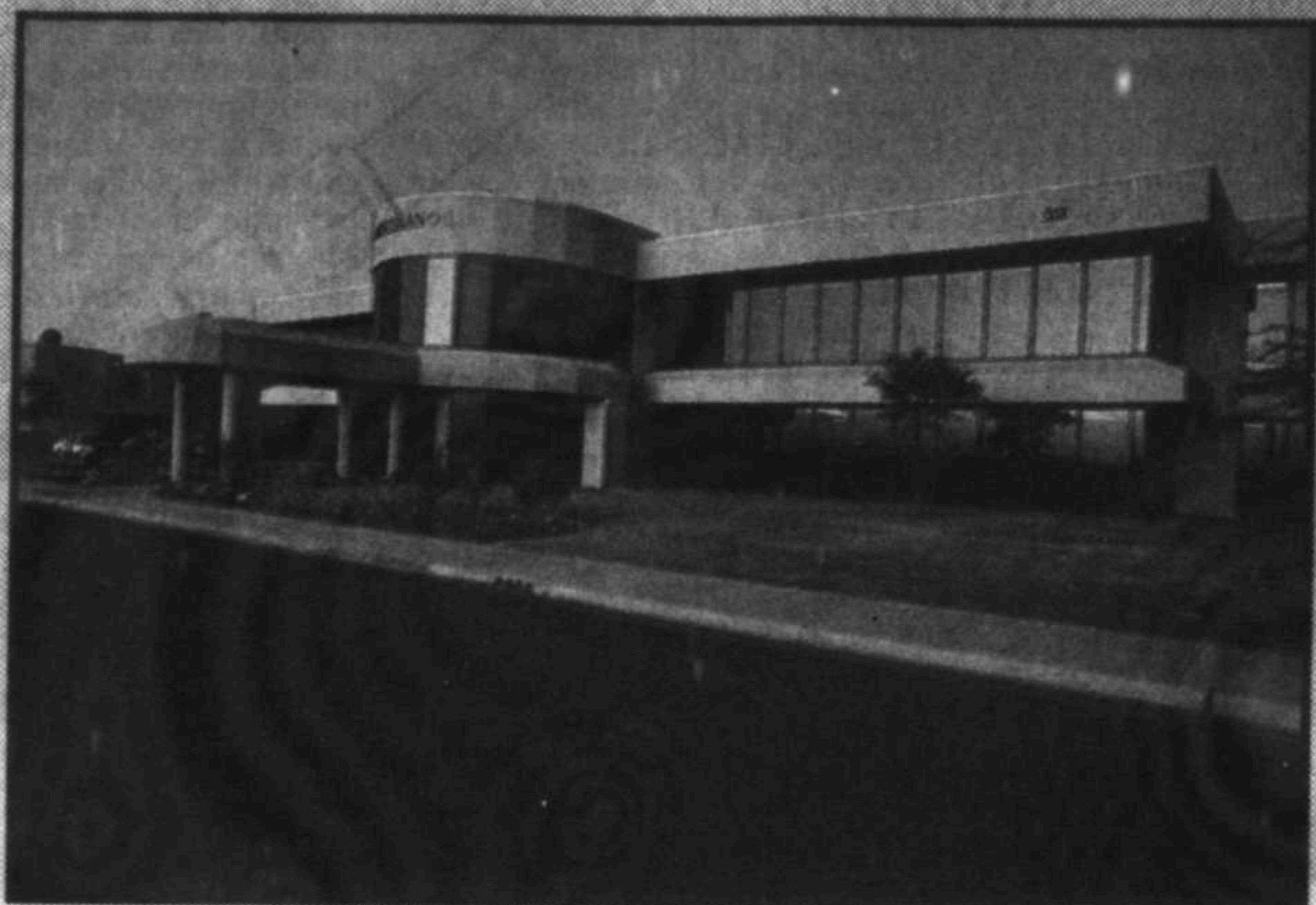
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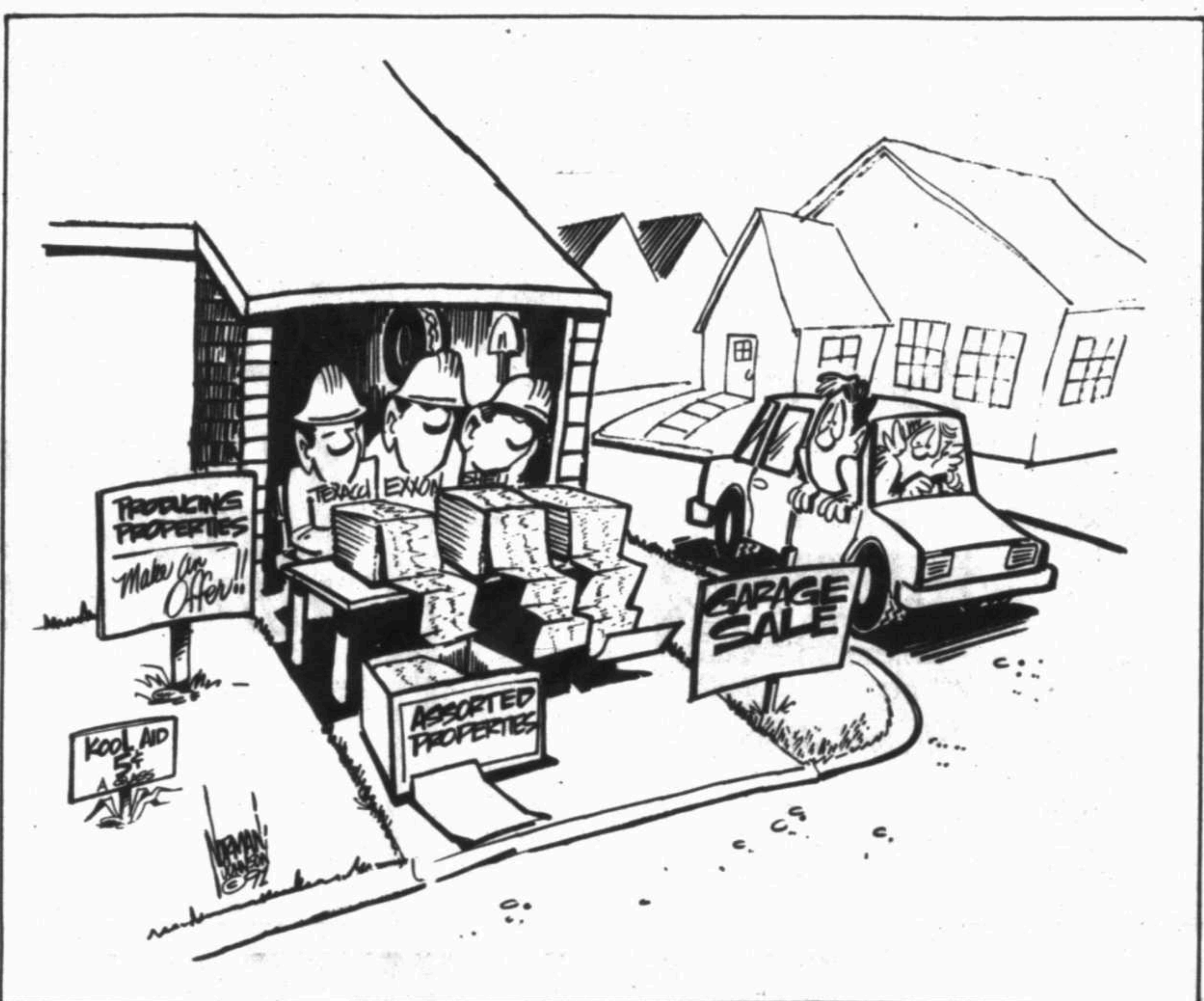
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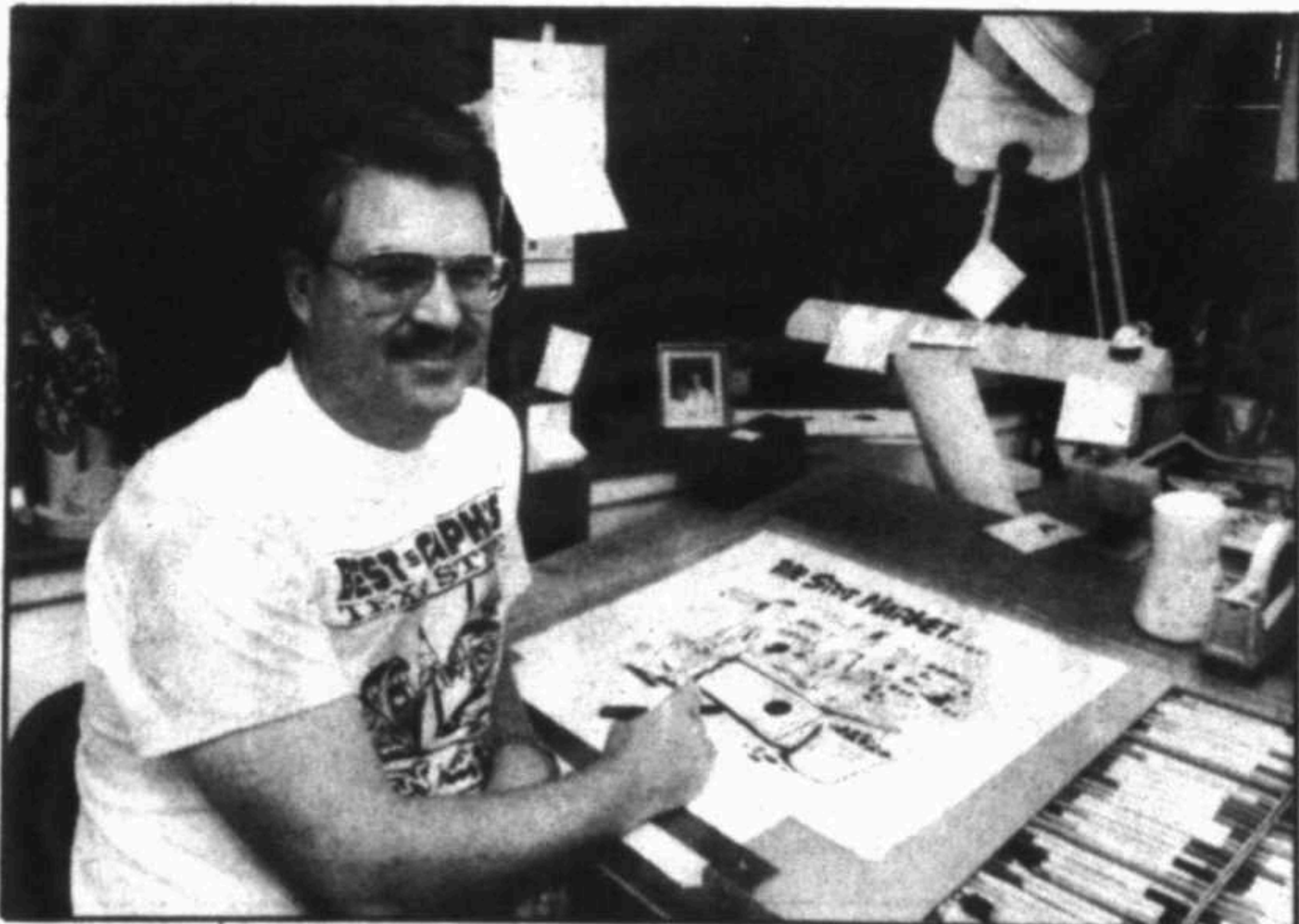
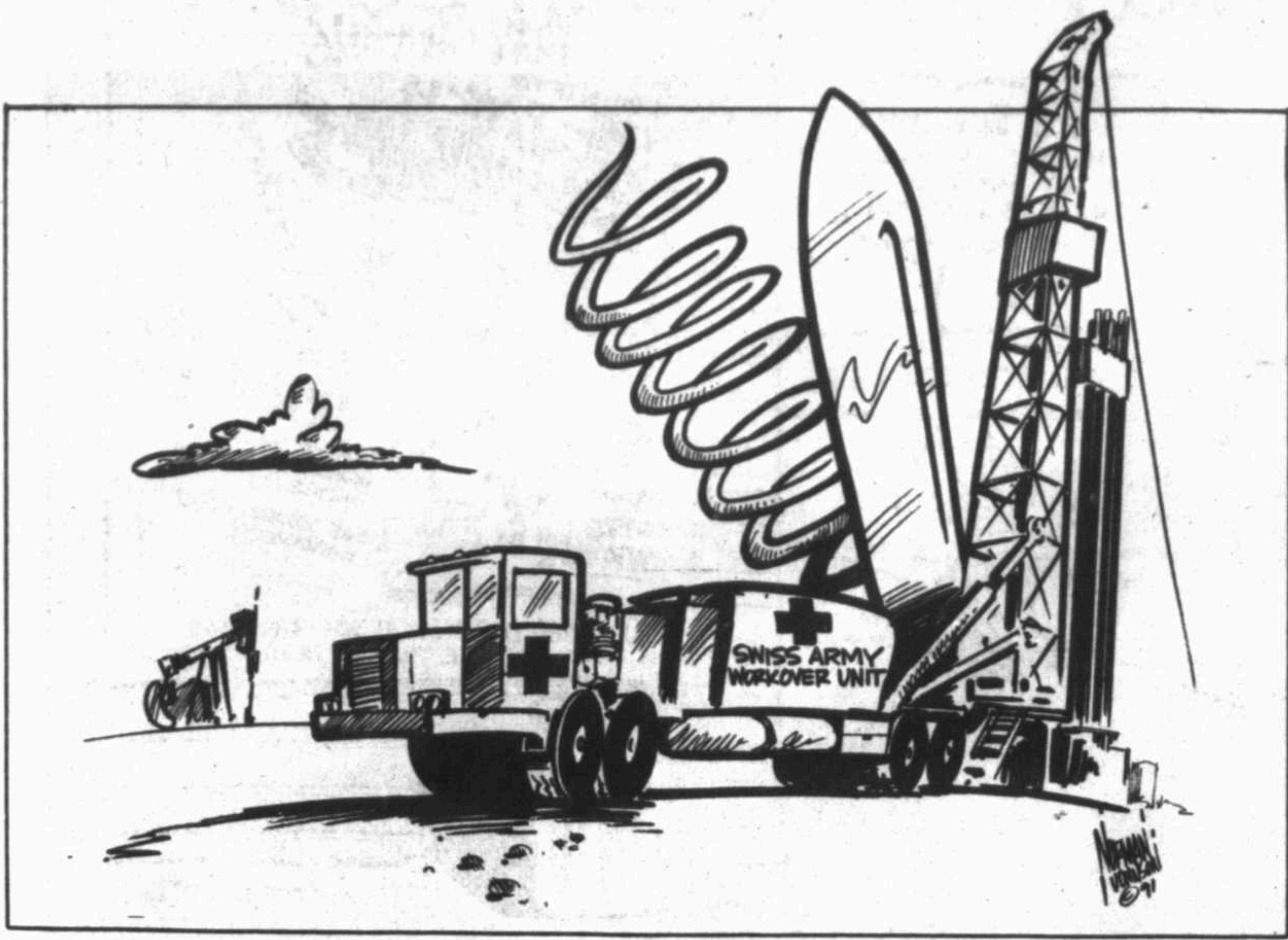
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Norman Johnson

For five years, Midland artist Norman Johnson has been drawing "Oil 'Bidness'" cartoons for the *Reporter-Telegram*. During that time, Johnson has managed, in his own unique way, to skewer virtually every phase of and every issue involving the industry.

"I get my perceptions of things from watching the oil business," he explains. "One great way is, I know people in the business and I feed off them and what they say. And some of them feed me. I take my ideas from anywhere."

He said he enjoys doing the cartoons. "It's a neat thing to take your opinions and views and have a public forum to put them in."

He has loved art since he was a child, and does fine art in addition to cartooning.

Johnson said he used to watch Saturday morning cartoons with his daughter as she was growing up. "It's been a part of the way I look at things."

"When you look at something through humor, deeper truths come out. You can go straight to the point with a one-frame cartoon than (you can) with a discussion that goes on for an hour or more."

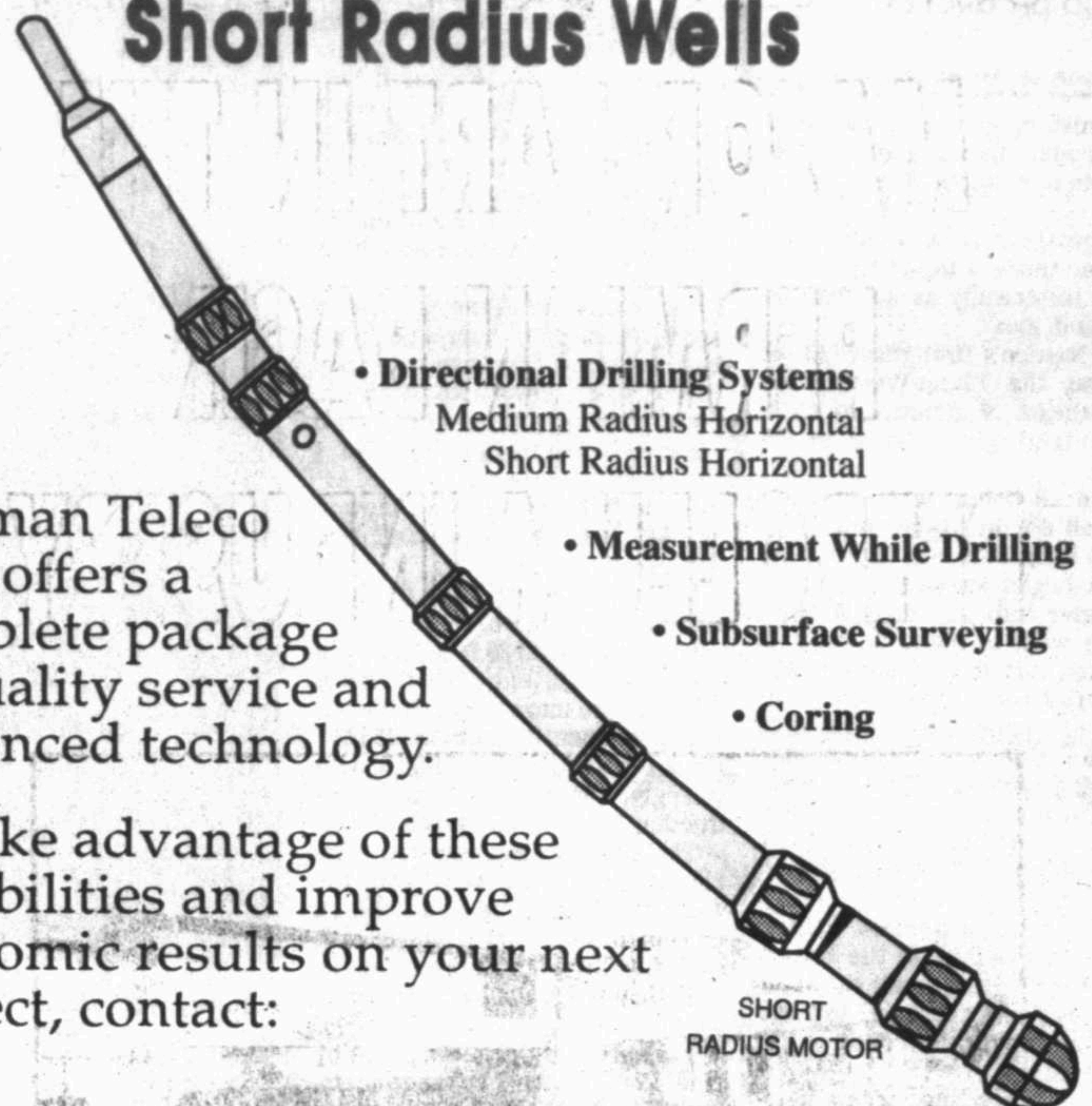
He doesn't want his "Oil 'Bidness'" cartoons to get too technical. "I've seen other oil cartoons done, and they're usually so technical anyone not in the business couldn't relate," he explained.

"The way I approach it, I try to learn about things in the oil patch, but not too much because you lose the humorous perspective. I'm trying to link the layman with the industry that brings in the majority of the economy here."

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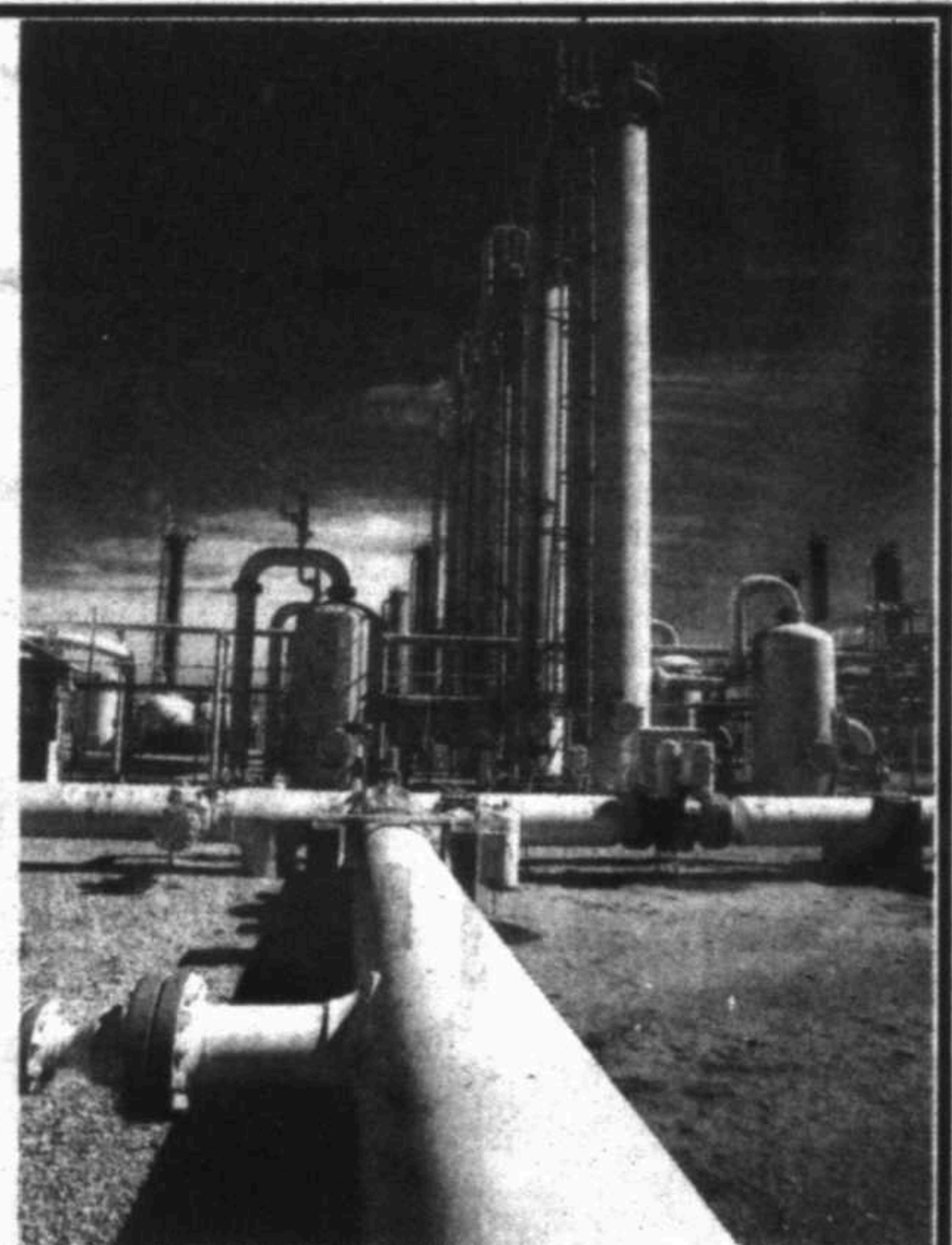
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OCT 18 1992

New Mexico discoveries play big role in basin

■ Permian would be half a basin without New Mexico production.

By Johnnie Montgomery

The history of the oil fields of the Permian Basin would be incomplete if it stopped at the state line.

Southeastern New Mexico's oil wells and those of the Permian Basin are historically as inseparable as oil and gas.

New Mexico's first recorded oil well was the Flynn-Welch-Yates #1, southeast of Artesia, in 1923, with initial production of 38 barrels.

It had all begun when an artesian well on the Hammond (later Brown) farm between Dayton and Artesia began spewing oil, rocks and water into the air in 1909.

Many wells in the area came in like that, but they usually settle down after a day or two. This one, however, produced more and more oil. One report had it that the well produced 24 barrels of oil a day during the summer of 1910. Erratic and unpredictable, it would erupt for days, then mysteriously stop.

Interested prospectors drilled wells in the vicinity of the Brown well, often finding small shows of oil at anywhere from 900 to 1,200 feet, but never in commercial quantities.

In 1914, when the largest prospector, the Pecos Valley Oil and Gas Co., announced its bankruptcy, area landowners worked in order to keep oil companies in the area.

They formed the Pecos River Oil and Gas Co., assigned 10,000 acres to an initial pool and enlisted S.C. Humphreys of El Paso to recruit more members and contact oil producers.

In 1917 the company had one company involved in drilling, with contracts signed by three others, and a list of prospects waiting.

The Roswell Chamber of Commerce organized their own exploration pool, and hired a geologist.

These efforts produced intensified drilling activity, but no oil in commercial quantities. Meanwhile, the Brown well continued to spew out just enough oil to entice producers to try their luck. Usually they stayed for only a short time.

Among them was the Illinois Producers Co., managed by Van S. Welch.

Illinois' first well ran true to form, with a small show of oil. Well No. 2 was near TD when Welch announced to the Artesia Advocate that he was having trouble negotiating the renewal of his lease.

Despite a blistering editorial by the Advocate to the landowners and the hasty formation of a committee to try to change their minds, the landowners held out.

Welch told his driller to come out of the hole and rig down. He was moving to Burkburnett.

Martin Yates, a local real estate agent and landman, caught him before he left and offered him another deal.

It was Yates' contention that the artesian water which plagued every drilling operation west of the Pecos River was a key to the problem. He offered to procure leases

east of the Pecos, if Welch would do the drilling.

The partnership originally involved Welch and Yates, Welch's absentee partner, Thomas Flynn of New York, and Yates' partner William Dooley of Kansas City.

Flynn-Welch-Yates No. 1 came in after a raft of fishing jobs and accidents, with 38 barrels of oil and a large amount of gas.

They shut the well in and moved northwest three quarters of a mile.

To finance No. 2, they subleased a large part of the acreage Yates had acquired, arranged to pay their drilling crews with part cash, part working interest, and planned to use the gas from No. 1 for fuel.

Flynn-Welch-Yates No. 2 blew in at 1,940 feet. The roar was heard for two miles.

Yates' wife Mary chose the location for well No. 3.

It came in at 1,986 feet on a rush of gas and oil, but soon dropped off to a little more than 500 barrels the first month, from a 45-foot-thick formation. They shot it with nitroglycerin and increased production to 20 to 50 barrels a day.

The Artesia discovery led a series of discoveries throughout the 1920s and 1930s. The Red Lake on the north, the Empire on the east, and the Grayburg-Jackson on the west; it was almost harder to miss than to find oil.

Maljamar Oil Corp., financed by New York Cotton Exchange member William Mitchell, and named for his children Malcolm, Janet and Marjorie, completed five producers in a row for a total of 1,500 barrels a day.

Before it was all over, manager Ellsworth Baish would drill 16 producers in the Artesia. Then one day he drove through the lone some bleached caliche Mesquero Sands three miles west of the Caprock over in Lea County, and staked a well in the middle of a pile of bones.

The Maljamar Baish No. 1, after completion, made 100 barrels a day.

The major companies had stayed away in droves in the early days. Now they rushed in to snatch up checkerboard leases.

Within three weeks of the Maljamar discovery there was a turnover of 2 million acres in eastern New Mexico.

The Texas Co. drilled the Rhodes No. 1, which turned out to be a northern extension of the Leck Field in Winkler County.

Midwest, Skelly, Marland (later Continental), and Ohio all drilled discovery wells in southeastern New Mexico.

By 1928, there were more people than cattle in Lea and Eddy counties, and most of them were roughnecks. Progress and the search for oil marched through Jal, Eunice, and on toward Hobbs.

Late in 1928, Midwest staked the State No. 1 well near Hobbs, after geologists found the presence of an uplift indicating a subsurface anticline.

The means they used to make their determination was a new device called a magnetometer, which sent electric waves beneath the earth's surface and measured varying densities of formations.

The State well proved the existence of the anticline. The State's offset to the northeast, the No. 1



A lone rig makes hole in southeast New Mexico, the other half of the Permian Basin oil producing empire.

Capps, produced 850 barrels of oil a day, and ushered in the Hobbs field, which had the potential to dwarf the Artesia, the Maljamar, and indeed, most of the Permian Basin, in production.

However, with the slowdown caused by the advent of the Depression, development was delayed until the middle and late 1930s.

With the installation of El Paso Natural Gas Co.'s 16-inch pipeline in June 1929, Jal became a major supply and market center for natural gas throughout the nation.

By January 1934, El Paso was buying gas from The Texas Co., Continental, Humble, Empire, Leonard, Pueblo, and Stanolind.

In a northward trend 30 miles long and 5 1/2 miles wide, the area — later to be designated by the New Mexico Oil Conservation Commission as the Jalmat — oil wells dominated its western side, and gas wells the east.

Amerada entered the New Mexico picture in 1935 with the drilling of the No. 1-D State four miles southeast of Monument, a Grayburg well.

Upon this discovery, operators swarmed over the open acreage southward toward Eunice, and in May 1936, both Gulf and Repollo Oil Drilled wildcats that turned out to be good producers.

The Langlie-Mattix and Penrose-Skelly fields were discovered in 1935, followed by the Vacuum in 1937.

Although the Vacuum's first producer was in 1929, the Depression had dampened development, and the next test was drilled in 1937 by Magnolia, which ad merged with Vacuum Oil Co.

The first well was marginally productive, but the second, the No. 2 State-Bridges, flowed 582 barrels in 19 hours.

Upon learning the news, Texaco moved in to drill, as did Repollo, Phillips, and Standard of Texas.

The Vacuum proved to be an extremely versatile field, yielding production from zones in the Seven Rivers, Grayburg/San Andres, the Abo, Glorieta, Devonian, Wolfcamp, Pennsylvanian, Blinberry, Yates, Queen and Morrow fields.

The Lovington Field just northeast of the Vacuum was also productive in many zones. After producing mainly from the San Andres since late in 1938, Skelly discovered the Abo at 8,500 feet in 1951.

Throughout the 1940s, more and more producers poured into New Mexico, drilling deeper, into the Penn and the Silurian-Devonian.

Great Western found the Caprock Field which extends into Chaves County. A host of independents developed the Square Lake, and Gulf found the Drinkard, Continental and Humble the Cass southeast of Monument, and Olsen Oil the Justis, east of Jal.

A Magnolia well, the No. 1-A T. Bettenbough, opened the Bough trend in 1949, extending north

into Roosevelt County, in what was to become the Allison, Crossroads, Vada, Inbe, and Bagley fields, with production from the Permo-Penn at about 9,800 feet.

In February 1950, Atlantic Refining found oil in the Wolfcamp at 9,395 feet. Throughout the 1950s, drilling in New Mexico went deeper and farther, with the exploitation of the Abo and the Wolfcamp.

In August 1951, Skelly completed a well in the Ellenburger in the Dollarhide Field, lying part in Lea County and part in Andrews County, Texas, the only field where reservoirs cross state lines.

With the proliferation of discoveries, development of geology, engineering and technology flowered.

Tennessee Gas and Oil Co.

drilled the No. 1 State-A. A Kemnitz well drilled into the Lower Wolfcamp at 11,537, and discovered the Kemnitz field.

During the 1960s, New Mexico suffered the effects of lowered oil prices and rising costs.

Moreover, many of its old fields finally began to play out. Furthermore, there were some disappointments with new zones.

Notable was the Morrow, which would characteristically yield large amounts of gas at the outset, then go into a steep decline. There was speculation that the wellbore was damaged during drilling, leaving a "skin" that somehow inhibited the gas.

New fields discovered in the later years include the Inabe, Indian Basin, Osudo, Antelope Ridge, and Bell Lake.

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Hard times gave birth to Don-Nan

By Johnnye Montgomery

The Permian Basin has a number of successful manufacturing businesses that resulted from hard times in the oil business.

Don-Nan, a high-tech equipment manufacturer based in Midland, originated as a mom-and-pop pump repair and supply store. Vernon Carruth started it when a major supply company laid him off.

Dorothy Carruth recalls the day her late husband came home with the news.

"He said, 'Mama, let's face it. No one is going to hire a 49-year-old man in these bad times.' So we had to go into business for ourselves."

They poured in all the money they had, and worked 16 to 20 hours a day, seven days a week.

The first year, Carruth was president, janitor and pump repairman.

Mrs. Carruth had been secretary to a major oil company, but retired and joined the family business. "That was something I said I would never do," she said.

Average gas price below '89?

Staff report

While a turnaround is being predicted for natural gas by such studies as the one by Arthur Andersen & Co. and Cambridge Energy Research Associates, another natural gas consulting firm says the price in real levels will probably remain below 1989 levels.

The real price for natural gas may be lower in coming years than 1989, when industry experts say prices hit bottom, said DAR & Co.

The consultants predict that sufficient gas supplies will be forthcoming at "far lower prices than most people forecast in 1989."

The firm said the real price of gas in 1995 will be no higher than 1989 and that the real price in the year 2000 could be even lower. DAR & Co. points out that the average wellhead price a decade ago was approximately \$2.50 per MMBtu, and explains that the average 1992 price would have to be about \$3.70 per MMBtu to offset a decade of inflation.

Don Carruth, who grew up in the business and was active in its management at the time of his father's death, began Don-Nan's manufacturing business in answer to customers' special needs.

"Once about all we did was supplement the pump business by facing cages and barrels," he said. "Then we prototyped a new gas-related product and started making a tool for a major manufacturer, and it took off from there."

Don-Nan manufactures components for offshore production platforms, waste disposal trucks, gas turbines, building elevators, jet skis, submersible pumps and gas measurement equipment.

Don-Nan's operations manager

says small manufacturers like Don-Nan fill a special niche in today's business climate.

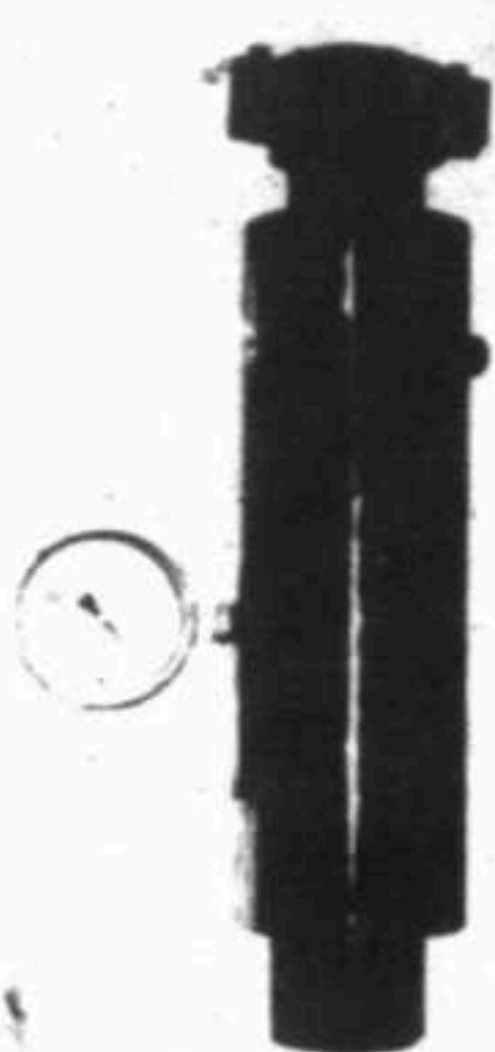
"Independent companies like Don-Nan provide an alternative resource for customers who need flexibility, cost effectiveness and short lead times. Large corporations often find it easier and less costly to have certain items made right here in Midland."

In spite of a general down-turn in the oil industry, Don-Nan's business has remained good. In 1990, the company opened full-line supply stores in Odessa and Stinnet, in the Panhandle.

Don-Nan is one of the largest independent pump repair facilities in the nation.

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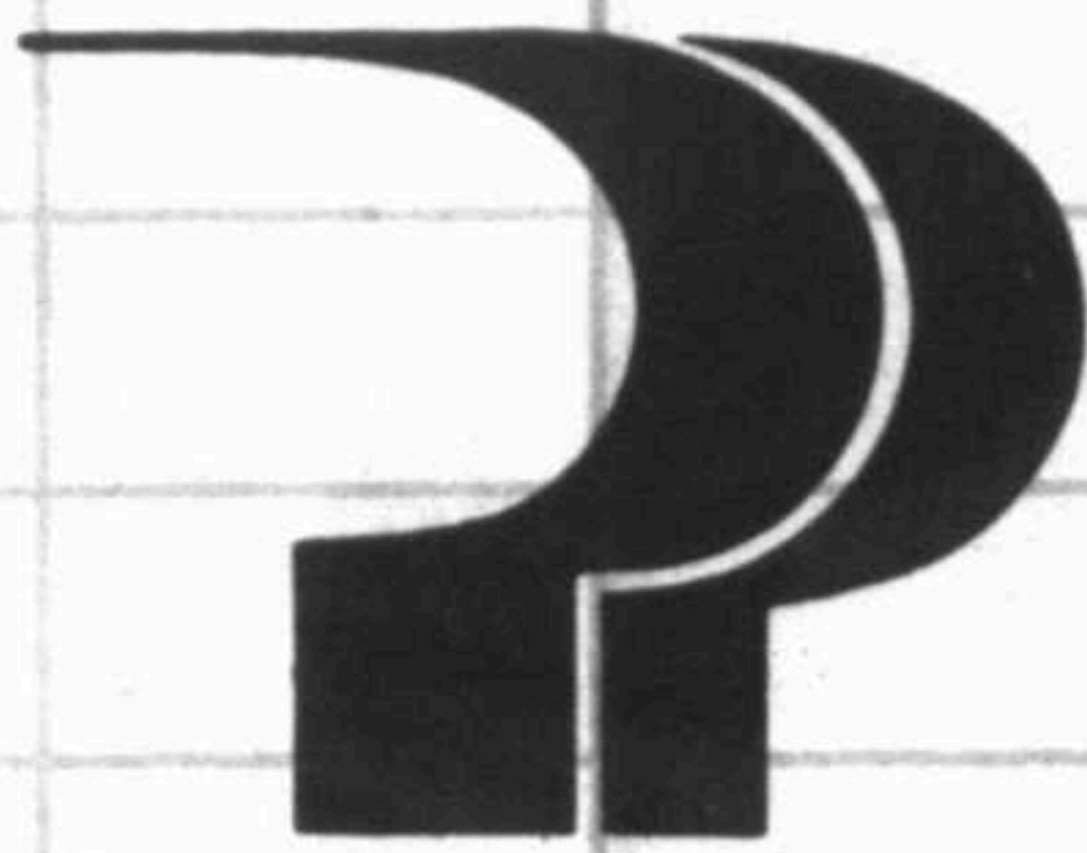
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By Mella McE
Staff writer

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By Ellen Hopki

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Producing property assessment benefits seller, buyer

By Mella McEwen
Staff writer

Amid growing concern about the environment and the danger of hefty fines if environmental damage is found, oil producers need to be more cautious than ever.

Caution is especially needed, according to Bob Booth of Joe C. Neal & Associates, when producing properties change hands, a growing trend among domestic producers.

A company that has recently purchased a property could suddenly find itself facing thousands of dollars in fines and perhaps even legal action if care is not taken.

Still, Booth said, "Congress established the innocent landowner defense in 1986. The most-used way to claim that defense is environmental site assessment."

Booth cites four levels of site assessments, each differing in their thoroughness.

In Level I, the site is assessed for existence of or potential for environmental problems from past and current operations or happenings on a site and to establish the requirements of due diligence.

Level II is a follow-up to the first assessment, investigating specific concerns noted in Level I. This assessment, according to Booth, is generally used to fully satisfy the all-appropriate inquiry and due diligence requirements of the innocent landowner defense or to estimate costs for work that may be required at the site.

Level III evaluates applicable reclamation programs and mitigation methods, including projected costs. This assessment usually re-

quires additional data collection.

The final level, Level IV, includes further consideration, selection and implementation of a site reclamation and remediation plan.

In site background and operating history checks, Booth said, information is gathered on the site's compliance status in regards to applicable environmental regulations. He researches any citations, fines, inspections, permits, licenses and registrations.

Included in this investigation are the chain of title, aerial photographs, a review of county records, whether required Material Safety Data Sheets are available, spill control and countermeasure and response plans are in place, and emissions risk and plans are evaluated. He also researches the historical use of adjacent properties.

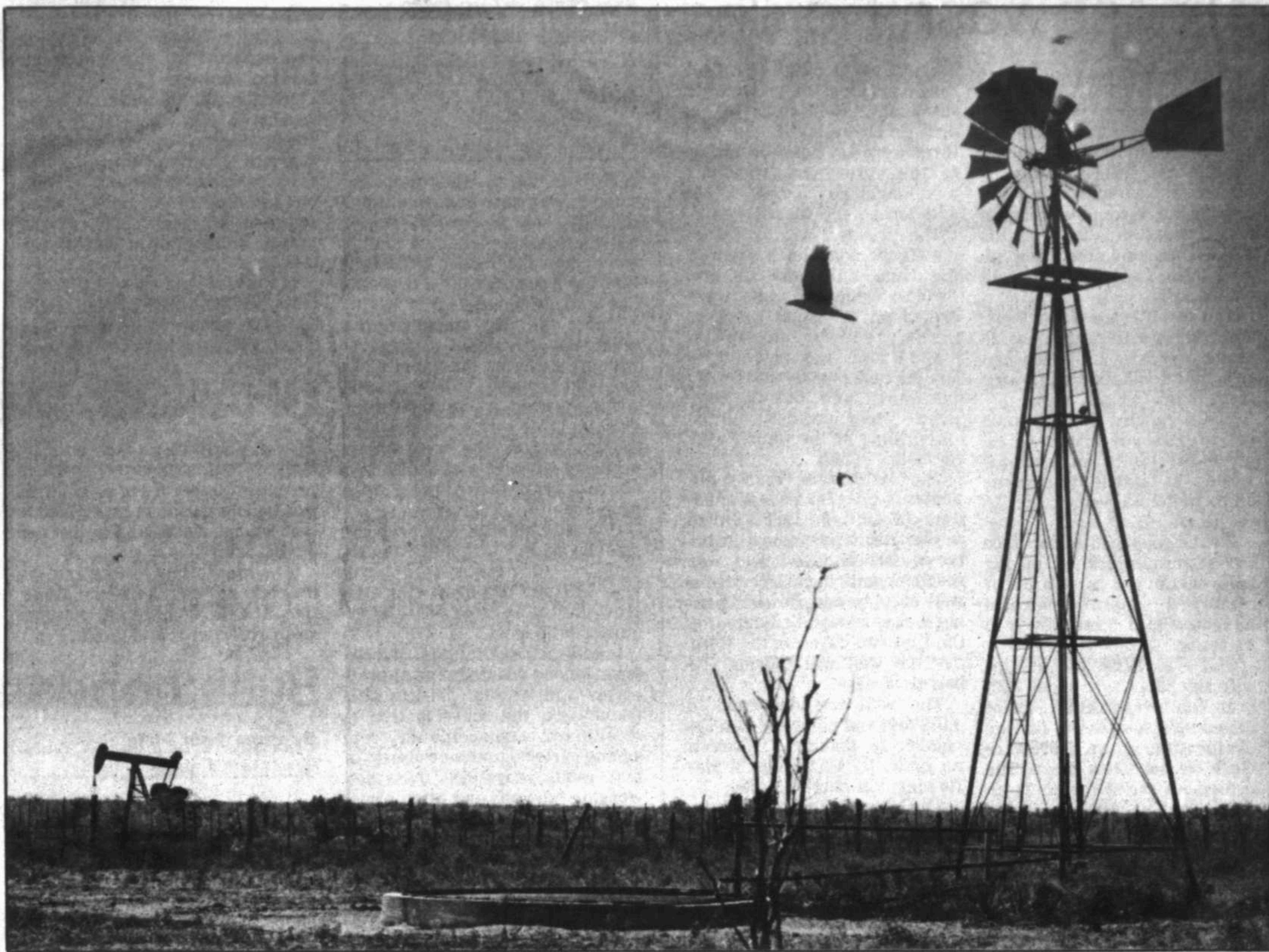
As important is an on-site inspection, in which Booth checks the soil and topography and samples fresh water wells on the property and adjacent sites.

"Check the fresh water wells, sample them," Booth advised. "You'll want to know what they looked like when you take over the property. For the best defense, sample all the fresh water around."

An on-site inspection should include an evaluation of the site operations, the general condition of the buildings, storage tanks, landfills and surface impoundments, including management practices.

Spill areas around tank batteries should be checked as well as air emissions, water discharges, and dumping, particularly on producing properties.

Please see **PROPERTY/58DD**



New regulations are requiring oil operators to work harder at keeping their producing sites safe and sound environmentally, and a thorough assessment before selling or buying a property can reduce the chances of a fine or criminal charges.

Progressive cavity pump is new application of an old idea

By Ellen Hopkins

Progressive cavity pumps have been used to pump peanut butter; now they also pump oil.

This new application of an old idea is considered innovative and an aggressive marketing campaign by a local company has pop-

ularized this pump.

In the last five years, Highland has brought more attention to the progressive cavity pump and broadened its application to the oil field. Originally developed by a French designer in the 1930s for industrial use, this pumping system was adapted for use in the oil

industry in 1979.

Dewey Gandy, central division manager of Highland's Subsurface Pump Division, explained that although it uses a sucker rod string, this pumping system turns the rods rather than reciprocates.

"One of the major advantages of the progressive cavity pump is

that it does not lift rods," Gandy said.

"It is designed with a rotor suspended on the sucker rod string inside a stator. The design replaces electrical submersible pumps and beam pumps, and there is a savings in electricity."

He cited other advantages in-

cluding lower initial cost, safety and the pump's ability to lift weighted fluids.

"There is a significant savings in lower capital costs. Excluding the rods, it turnkeys for between \$20 thousand and \$30 thousand."

Gandy said because there are no counterweights on the surface

there is nothing to injure anyone.

The progressive cavity pump can also pump massive amounts of particulates; it can lift fluids containing up to 80 percent sand. It can accommodate up to 100 percent water and withstand down-hole continuous operating pressures up to 2600 psi, he said.

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OCT 18 1992

Prolific Yates field almost wasn't drilled

By Mella McEwen
Staff writer

It is the field that would never have been if conventional wisdom had been followed.

Instead, a persuasive rancher looking for income to help his ranch weather the droughts and floods, convinced a few oilmen there was oil to be found on his land.

The result is the Yates Field, a world-class field that has already produced 1.2 billion barrels since oil began flowing from it on Oct. 29, 1926.

When rancher Ira Yates set out to persuade oilmen to explore his land, conventional wisdom had it that there was no oil to be found west of the Pecos River.

But he managed to convince Levi Smith, president of Big Lake Oil Co. and an associate of renowned wildcatter Michael Benedum, that there was oil to be found.

On Dec. 29, 1923, Yates and his wife signed an agreement with Transcontinental Oil Co., one of Benedum's companies, for the exploration of an 8,000-acre block on the Yates ranch. The agreement called for an \$1 acre bonus on 4,000 acres and 25 cents an acre annual rental on the entire block.

For almost a year, beginning in June 1923, Transcontinental had sent out a geological party to survey an area near Yates' ranch.

West of the Pecos River, the party mapped the Yates Dome, known as the most abrupt surface fold in the region, a dome that is elongated northwest-southeast with closure in surface beds of more than 125 feet.

Following the agreement with Yates, Benedum estab-

lished a partnership with Ohio Oil Co., calling for an Ohio Oil subsidiary, Mid-Kansas Oil, to drill four wells. If the first three were dry holes, according to the agreement, Mid-Continent could pay a cash forfeit and forego the fourth well.

The first test was drilled on the Henderson Ranch south of Big Lake, and came up dry. Two subsequent wells were drilled on the Stiles ranch to the north and also came up dry.

Mid-Kansas was planning to pay the cash penalty and forego the fourth well, but the company's chief geologist, urged the drilling of the fourth well, on Yates' ranch.

The Mid-Kansas Transcontinental No. 1-A Yates was spudded on Oct. 5, 1926. Three weeks later, a pay formation between 992 and 994 feet was reached, and at 997 feet, the well blew in and flowed, making heads every 12 hours for the first two days. On the third day the well was flowing 100 barrels a day.

The well was deepened to 1,032 feet and completed on December 13, making 135 barrels an hour. By Christmas, it was flowing 300 barrels a day.

The Yates Field lies along the west bank of the Pecos River and produces from 1,500 feet.

It was confirmed in mid-February 1927 with completion of the No. 2-A Yates, which came in for 110 barrels an hour. Within 24 hours, it was making 300 barrels hourly. The well was drilled to 1,001 ft. at a cost of \$4,000.

A fourth well, the No. 1-B Yates, extended the producing area three-quarters of a mile north and was completed in late April of 1927 for 2,072 barrels in the first 24 hours.

Like-kind exchange is tax-deferred deal

■ Amendments to the IRS code could help increase like-kind exchanges in the oil patch.

By Johnnie Montgomery

Permian Basin operators who want to stay in business while liquidating one asset to obtain another can take advantage of 1991 amendments to Section 1031 of the Internal Revenue Code governing like-kind exchanges.

Under the 1991 amendment, a seller can dispose of a property without incurring tax liability if a like-kind property is identified in writing within 45 days of relinquishing the sold property, and the transfer of the replacement property is made within 180 days of the transfer of the sold property.

Proceeds from the sold property must be held by a "qualified intermediary," a disinterested party who will put the money into escrow until time to pay for the acquired property.

Like-kind exchanges can be made among a wide range of properties and assets. Within this framework, the seller is free to search out replacements from among various grades or classes of real estate, royalties, overrides, working interests and other assets anywhere in the United States.

Generally stated, the law provides the would-be trader with a "safe harbor" from threat of taxes as long as certain requirements are met. With the introduction of the qualified intermediary, it becomes possible under the law to structure a multi-property, multi-buyer sale, with the only stipulation being that a replacement of the sold assets is identified within 45 days and acquired within 180 days.

Petroleum Strategies Inc. of Midland has served as a qualified intermediary for the oil and gas industry since January.

The business in like-kind trades started out slow but picked up steam rapidly the last half of the year. The number of trades has more than doubled in the third quarter, compared to the first quarter, the firm said.

Dale A. Brown, president of the company, says he expects interest to continue to increase because of the changing nature of activity in the Permian Basin.

"The emphasis continues to be on major oil companies and major independents," Brown said. "However, we have had some very small independents that have used our services as well."

Yet the like-kind swap is by no means an easy way out for bad management. A poorly run operation will not improve by changing properties. Brown is quick to point out also, that all the steps must be followed in exact detail, in the proper order, and at the proper time.

"The rules that allow you to enter a deal like this (like-kind trade) are very generous in what they allow you to do, but they are very

inflexible as well."

A lot of the stringency has to do with the function of the qualified intermediary, Brown says.

"(The qualified intermediary) does not look for properties for buyer or seller. We don't even enter into the negotiations with the buyers and sellers of properties. We are not brokers of properties. We do the documentation of the transaction as a like-kind exchange."

"People buying or selling cannot function as their own qualified intermediary. At no time can they receive, pledge, borrow or otherwise obtain the benefits of the funds from the relinquished prop-

erties. A bank could serve as qualified intermediary, if that's the only investment banking service they provide."

Brown says tax-deferred exchange benefits are easy to arrange as long as you structure the sale ahead of time so that it can become a like-kind exchange.

"If you change your mind and decide not to reinvest the proceeds in replacement property, you can always take the money with whatever interest you've gained, and pay the taxes. But once you accept the sale proceeds, you can't back up and arrange for tax-deferred benefits."

CHANGE: Marks the decade of the 90s

(From 49DD)

producers to get their product to market and will do much to insure that natural gas becomes the fuel of the future.

Gasoline is losing its iron grip on the fuels market, as natural gas in the form of compressed natural gas (CNG) and liquid natural gas

(LNG) threatens to take a share of the transportation market, along with propane, ethanol and electric. Some oil companies are now running fleets on CNG, and in the future many well servicing companies and drilling rigs will most likely run on LNG.

Wells that were once drilled straight down are now being

drilled sideways, and super seismic techniques are finding millions of barrels of by-passed oil.

In terms of change, it is probably the most exciting era in the history of petroleum. It is change that has produced a cleaner, safer, smarter oilpatch. But many contend that the best is yet to come.

Bush hopes to heal oilpatch wounds

By John Paul Pitts

Business/Oil editor

It's no secret — the oilpatch isn't happy with President George Bush, and whether or not recent passage of the Energy Bill and intensive campaigning by energy officials will make a difference remains to be seen.

Secretary of Energy James Watkins has been making a whistle-stop PR tour of the state in recent weeks, trying to explain to those in the oil industry why they got so little help so late, and almost no recognition of their problems from the administration.

"The president is aware of the discontent, and that's why I am here in Texas, trying to mend wounds and clean up debris," said Watkins in a telephone interview earlier this week.

Watkins who has made stops in Tyler, Abilene and Wichita Falls, Houston and Longview, confessed that a lot of affectionate supporters were feeling that they had been let down by the two previous administrations. He also noted that, given the devastation that has taken place in the industry over the past few years, he could

understand their anger.

It is a shame that the rig count is at its lowest level in 50 years, that well completions are off 50 percent and half the jobs in exploration and production have been lost, noted the former admiral.

Watkins attributes some of the blame for a disenchanted oil industry, not on the president, but on administration advisors, but he puts most of it at the feet of a liberal Democratic Congress and environmental extremists.

"I don't think some in the White House really understood the problems and devastation in the oil industry. Unfortunately, I think the president was given some poor advice," explained Watkins, who notes that the situation may have been remedied with the recent appointment of Henson Moore as deputy chief of staff at the White House.

Watkins, however, spreads a thick coating of blame on Congress for an anti-oil posture and taking so long to pass an energy bill.

"We just can't do it (get help for the domestic industry) with an anti-oil, anti-drilling, environmental extremist, Democratic Con-

gress. They won't let us up for air!" fumed the chief energy advisor, who thinks that some irresponsible members of Congress are more interested in campaign issues than solutions.

Congress also gets the blame for taking four years to get an energy policy. Watkins explained that it was the president's intention, early in his administration, to formulate an energy policy. "He told me that he was tired of the energy policy being a piecemeal operation and he wanted something comprehensive."

He said the president had wanted an energy research program that would stress new science and technology, and that a consortium of government and industry was working to achieve new technology to prevent the premature plugging of wells.

Asked why there were no federal energy research facilities located in the Permian Basin, which provides almost 20 percent of the nation's crude oil and which provides the most potential for enhanced oil recovery, Watkins said the notion had not been considered, but if it made sense it might be a possibility.

PROPERTY: Locations must be kept sound

(From 57DD)

In pipe yards, Booth said, current and former pipe yards should be checked for soil or ground water contamination from lead used in pipe compounds, cleaning materials, asbestos and radioactive scale coming from Natural Occurring Radioactive Materials (NORM).

Other substances to check for in addition to NORM are asbestos, usually contained in insulation and gaskets, and PCBs or polychlorinated biphenyls, which can be found around compressors and transformers.

Booth recommends transformers be tested for and retrofilled with non-PCB liquids and in good, non-corroded condition. The assessor should also check for heavy metals in the soil and around me-

ter sites and mud pits.

The inspector should carefully assess abandoned buildings, plants and tank batteries, underground storage tanks, what chemicals have been or are currently in use on the site and investigate any disposal into ponds or lagoons.

According to Booth, signs to watch for are discolored vegetation, depressions or pipe sticking up out of the ground, which he said is an indication of a possible inactive well, dump site or underground tank.

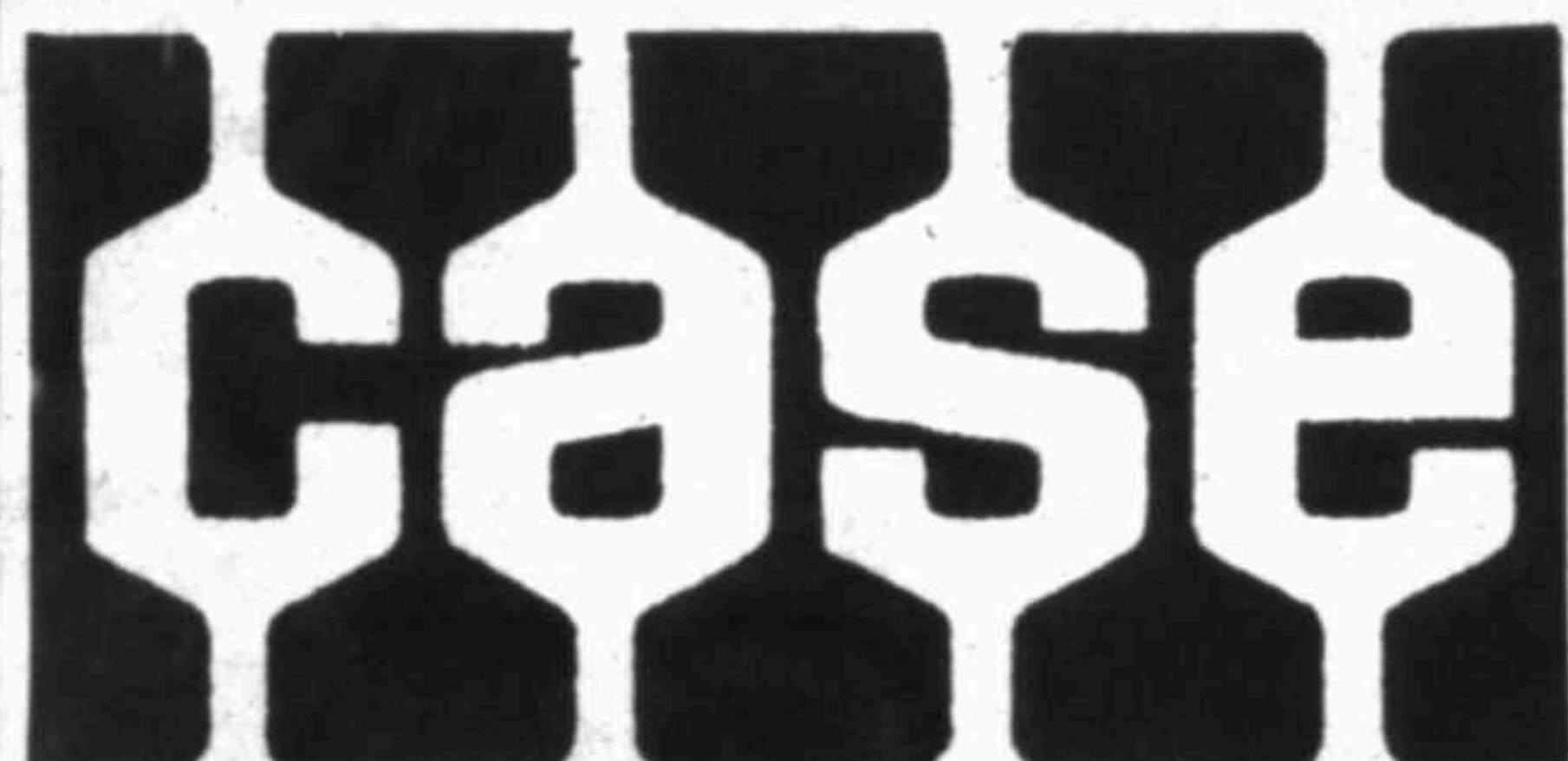
Booth said he has set up a kit for field testing sites for hydrocarbons and PCBs. "It helps evaluate the severity of contamination."

Before coming to Texas, Booth lived in California and built a soil reclamation machine. But he said, he wanted to be in the oil business.



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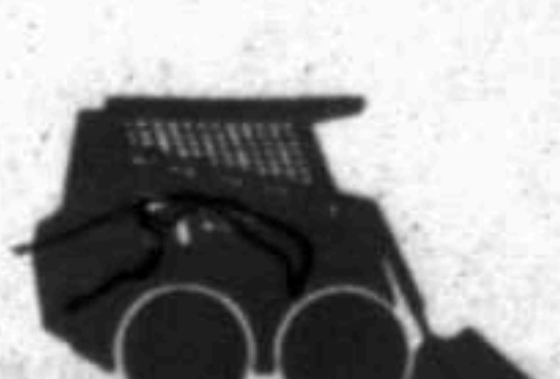
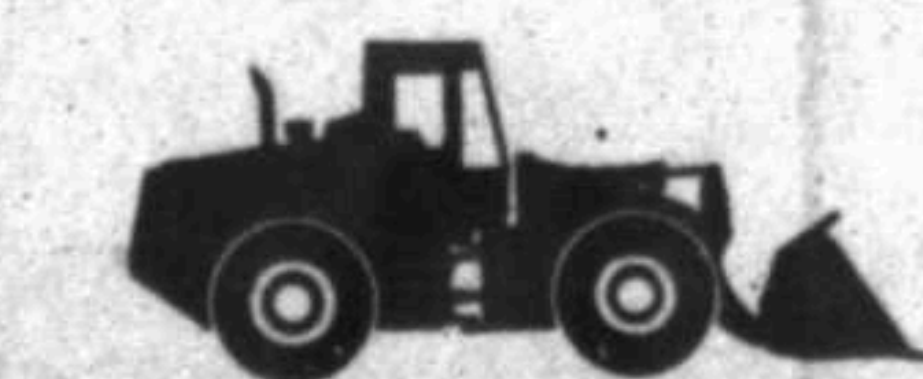
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Advanced communications provide instant answers

By Ellen Hopkins

Operators need answers to questions about what is happening on location, how a particular well is pumping, whether it was treated and when.

Questions such as these were the basis for some of today's advanced communications.

Instant answers are now available to operators, well-servicing companies and field technicians.

Enhanced communications and improved technology have provided instant reports and remote access to monitoring, controlling and receiving information on production operations.

All this data can conveniently be retrieved from any number of offices, and instantly updated from field trucks on location.

Regarding questions raised by operators about whether a well was treated and when, Operations Manager Jim Davis recalled that Tretolite also found a need for instant information.

"We assessed Tretolite and Petrolite's needs over the course of a

year and found immediate access to inventory was an important goal of our Management Information System (MIS)."

"We have always recognized the need for it. Now we can pull up our inventory from anywhere in the system. We know where a particular chemical is and how much of it there is throughout the system," he said.

"What this does for our company is to provide a financial advantage by keeping inventory/raw material levels at a minimum. Instead of handling inventory via fax, envelopes and stamps, we've bypassed that and handle it all on computer."

"When a chemical is used on a well site, the number of gallons is recorded and inventory levels are automatically adjusted. Also, we can track the demand for particular products and plan accordingly."

Davis said of the thousands of tanks located on customers' properties, accessing the age of the tanks, when they were last tested

for integrity, and what chemical is stored in each tank, is no problem.

"This is all information we had before on hard copy, but it was cumbersome; now we can retrieve it instantaneously."

He said the advantages of enhanced communications include accurate reporting and instant availability of information on customers' wells.

"Today the treating truck operator can pull up info on a well from his truck," he said. "This computerized ability means our trucks are sophisticated. One of our goals was to take the paperwork concern away from the drivers so they can concentrate on treating wells."

"They can now immediately input the treatment data on equipment in the truck and be done with it."

Davis explained that if an operator wants an instant report sent to his offices, Tretolite can do this.

"After the well treatment, the driver can download the data through a modem."

Davis said environmental data sheets, material safety data sheets, along with Department of Transportation (DOT) and Environmental Protection Agency (EPA) regulations on specific products is also accessible via computer from the truck.

"This gives field people the information they need. In case a chemical is spilled on a field person's clothing, he can immediately access the proper handling methods. It's the law that everyone who comes near chemicals have this data available."

"Efficiency of reporting is imperative due to DOT & EPA regulations," Davis said. "We can provide customers an inventory of the number and amounts of different chemicals used on his property in the last year, which he may request for reporting purposes."

"We feel it is our obligation to provide this information. A lot of what we have available for our customers' reporting needs isn't even required yet, but if you follow Washington you can see

what's down the road."

Knowing the treated condition of a well is one thing; actually controlling and monitoring production operations takes a different type of communication equipment known as a pump off control (POC).

Delta-X Corp., headquartered in Houston, and D-Jax Corp., headquartered in Midland, both manufacture pump off controls.

Operators have found that POCs allow for centralization of well-site monitoring as well as reveal potential problems in time to reduce damage and operating costs. POCs have become popular as operators try to monitor wells with reduced staffs. Customized with software in an operator's host computer, hundreds of wells can be monitored and controlled from one location.

According to John Pike, division sales manager with Delta-X in Midland, "pump off" describes the condition existing when fluid in the wellbore is drawn down such that the pump barrel is not com-

pletely full on the upstroke.

"The result is a damaging shock known as fluid pound," Pike said. "Continuing to operate under these severe conditions causes rod parts. The sooner you can shut the well down until it fills with fluid the better. That's what a pump off control is designed to do."

Pike explained that the pump off time interval, or downtime, varies for each well. "The 'DX System Sixty' has a patented setpoint method for automatically determining the downtime setting," he said.

It is based on monitoring the load on the polished rod relative to its position in the pumping cycle. When the load on the downstroke is greater than the setpoint, the POC shuts down the well until sufficient fluid builds up, he said.

D-Jax uses a different method, one based on pumping speed. Dee Mills explained that wells with sucker rods have two pumping speeds.

"When the pump has a full bar-

Please see **INSTANT/63DD**

Majors develop EOR projects

By Johnnie Montgomery

Three major operators — Texaco, Exxon and Unocal — have tertiary projects operating in Andrews County.

Exxon began its Means San Andres Unit CO₂ injection project in November 1983.

Mark Nathern, reservoir technology manager, said he's pleased with the project's outcome.

"Performance of the Means CO₂ project has continued to exceed our original expectations," he said. "The scope of the project is currently being expanded and results to date are encouraging."

"We remain optimistic that further expansion in Means and other Andrews County fields is possible if economic conditions warrant."

Unocal's Dollarhide (Devonian) Unit was begun in 1985. An SPE report stated response was "good."

Texaco began tertiary recovery operations in the Mabee Field in 1992. It tied into Enron EOR Service Co.'s Central Basin CO₂ pipeline, which interconnects with

three major supply lines that bring down pure CO₂ from fields in southwestern Colorado and northern New Mexico.

Texaco Division manager Bill Johnson Jr. and Dean Bears, assistant division manager in charge of enhanced oil recovery, said they think the Mabee would be an ideal candidate for CO₂ recovery.

"From an operator's standpoint, first of all, the Mabee is 100 percent Texaco operated," Johnson said. "Then the reservoir was the type we were looking for. It had been a good primary property and a good secondary property."

Johnson said from a profit standpoint, that although there is significantly less risk involved in CO₂ recovery than in pure exploration, the operator always has to weigh the return on investment. The price of oil must always be considered.

Other factors heavily favoring the Mabee, in addition to its history as a good primary and secondary producer, were its uniform reservoir characteristics.

"We looked at its sweep prop-

erties — uniform permeabilities — and lack of channeling," Bears said. "And Enron built the CO₂ pipeline into the Mabee Field."

Building the pipeline was an important consideration in view of the cost of the project, which ran into several millions of dollars before it was put into production.

"It was capital intensive up front," Bears said. "CO₂ forms a corrosive when mixed with water, it's late in the life of the field, and there is the cost of the CO₂."

"Of course, there's significantly more risk to pure exploration," he said. "We knew the oil was in place. In the Permian Basin, the rule of thumb on the average is you get 15 percent from primary, 15 percent from secondary, and 15 percent in tertiary recovery."

Construction and planning began in 1990. Approximately 250 jobs were created for the construction period. Now the construction phase is over, but as Johnson sees it, Texaco's commitment to the field is not over.

"The key word is stability," he said.

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— T. S. Hogan, quoted in the Sept. 27, 1927, edition of Midland Daily Telegram

By Joe Dominey

By logical standards the Permian Basin's administrative headquarters should have been either Big Spring or San Angelo, based upon their superior size and amenities during the mid-1920s. They had decent roads, office buildings, and hotels, and were, in fact, the first jumping-off places for the major oil companies that came after the discovery of oil at Big Lake in 1923.

Midland was a decent town which had grown from a ranching community in the 1880s and '90s to a thriving community of merchants, farmers, and ranchers. Most of its important institutions were within three blocks of the courthouse square.

The Llano Hotel (which also housed the local hospital) was at Wall and Main where the present-day Midland Center is situated.

The Midland National Bank, which opened in 1903, was in the same building.

Directly across the street on the southwest corner was the First National Bank, founded by John Scharbauer, and brothers W. E. and W. F. Connell in 1888.

Down the block south on Wall was Addison Wadley's dry goods store. Dr. John B. Thomas and family resided at the corner of Colorado and Wall, but Thomas was often away on horseback or buggy, calling on those too sick to come into town.

The First Baptist Church stood at Wall and Illinois, near today's City Hall, and First Methodist was across the street where First United Methodist remains today.

Between 1923 and 1927 the majors began to exploit the Permian Basin oil finds in the vicinity of Big Lake, Crane, and McCamey. Oil had also been discovered in New Mexico.

Gulf Oil Corp. had a district office in Midland, but most of the geologists and production personnel at that time operated out of San Angelo.

A 26-year-old oil scout, Fred T. Hogan, saw Midland as the future center of oil exploration in West Texas. He and his father, Thomas S. Hogan, began buying undeveloped subdivisions in west Midland near the old Midland College.

A native of Wisconsin, T.S. Hogan migrated to Montana in the 1880s where he successfully operated a cattle ranch, was licensed to practice law, and served as Montana Secretary of State and later as state senator.

During the beginning of World War I, the ranch was converted to a wheat farm, but it failed because of declining markets. So, Hogan and his son, then 20, went into the oil business, first in Colorado, then in New Mexico where they drilled two dry holes near Artesia.

They moved their operations to Amarillo and in September 1925 Fred moved to Midland to scout developments in the McElroy area near Crane. His father maintained an office in Fort Worth, where he brokered oil deals and bought royalties.

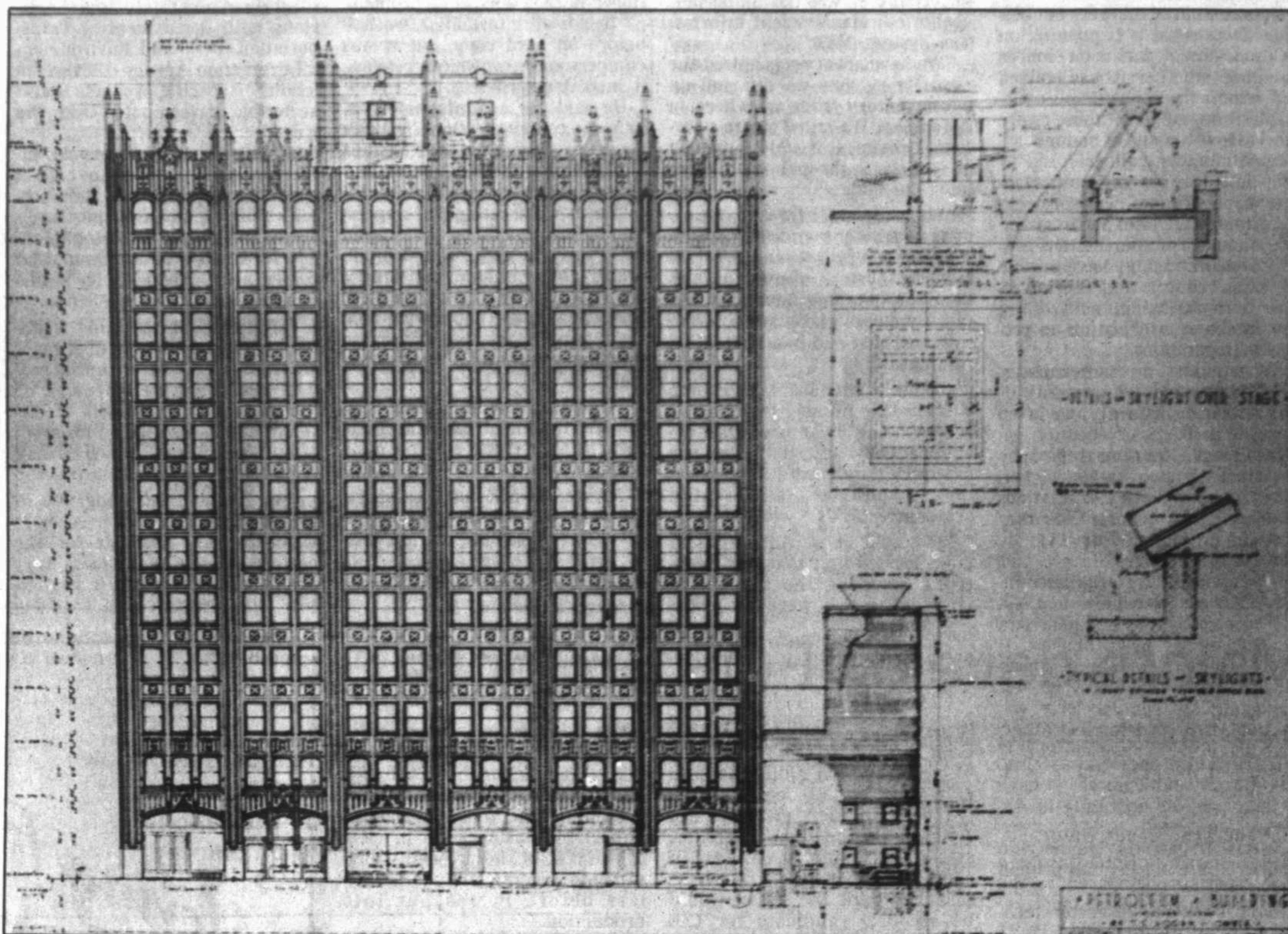
The Hogans were not especially successful in their early-day oil ventures, but reaped a small fortune in a crucial real estate transaction in early 1927 which later made it possible for them to build Midland's first major office tower.

John T. McElroy, a 77-year-old rancher who also owned a meat-packing business in El Paso, operated a huge ranch that sprawled more than 68,000 acres across Upton, Crane, Ector, and Pecos counties — in all about 109 sections of land, 14 of which were controlled by University Lands.

The Church and Fields discovery well north of the ranch had attracted Fred's interest, and he surmised that the ranch, its cattle, and its minerals might be worth having.

McElroy was interested in retiring, so the Hogans scraped up \$100,000 cash for a 60-day option to purchase 32,500 acres of land, minerals, cattle, and all improvements for \$2,500,000.

T.S. then headed to Pittsburgh where Gulf officials assured him the ranch would produce at least 100 million barrels of oil. His next



When T.S. Hogan and his son Fred decided to build the Petroleum Building in 1929, Midlanders called it 'Hogan's

Folly.' Indeed, after the Stock Market crash of 1929, the building stood virtually empty and bankrupted the Hogans.

stop was Wall Street where one New York bank offered to form a stock company with an initial capitalization of \$5,000,000 to finance the purchase and development of the field. Their one stipulation was that a geologist of their own choosing evaluate the property.

Unfortunately, geologist Frederick Clapp could not imagine that significant oil would ever come out of the lime formations in Upton and Crane counties. The New York bank declined the project within a few days of the expiration of the 60-day option.

The Hogans coughed up another \$50,000 forfeiture escrow amount for a 30-day extension. McElroy had to wait a month to pick up

\$150,000 from First National Bank in Fort Worth and still have his ranch and 6,000 head of cattle.

In Denver, T.S. Henri de Compiegne Sr. in the deal. De Compiegne was a major owner of Franco-Wyoming Oil Co., and he contacted his Paris banker concerning the investment opportunity. The two men, meanwhile, went to New York to seek other possible investors.

They were on the train en route to Fort Worth just one day prior to the expiration of the \$150,000 option, when Fred received word from W.D. Connell, president of First National of Fort Worth, that the Paris bank had wired \$3,000,000 to T.S.' credit.

When Fred met them with the news, the his father and de Compiegne were jubilant, and went straight to the bank to arrange closing on the purchase. The French company would own the surface and minerals, and the Hogans and de Compiegne had a half million dollar profit, less expenses.

With their profits the Hogans began buying oil and gas mineral royalties, and shortly afterward negotiated the purchase and sale of the Hendricks Ranch in Winkler County for \$3,500,000.

These transactions created the capital base from which the Hogans built Midland's premier office tower, the 12-story Petroleum Building, which still stands today

at Texas and Colorado.

The Hogans invested \$400,000 and borrowed \$600,000 from the Mercantile National Bank of Baltimore to finance construction. The architect was Wyatt C. Hedrick of Fort Worth, and general contractors were Hickey & Harrington of Dallas.

The Hogans ran full page ads in the Oil & Gas Journal announcing the "Hogan Building," due for occupancy in March 1929. It was actually officially dedicated on Independence Day 1929 and was 85 percent leased the day it opened.

Unfortunately, no one anticipated the stock market crash in October 1929.

Please see TOWERS/61DD

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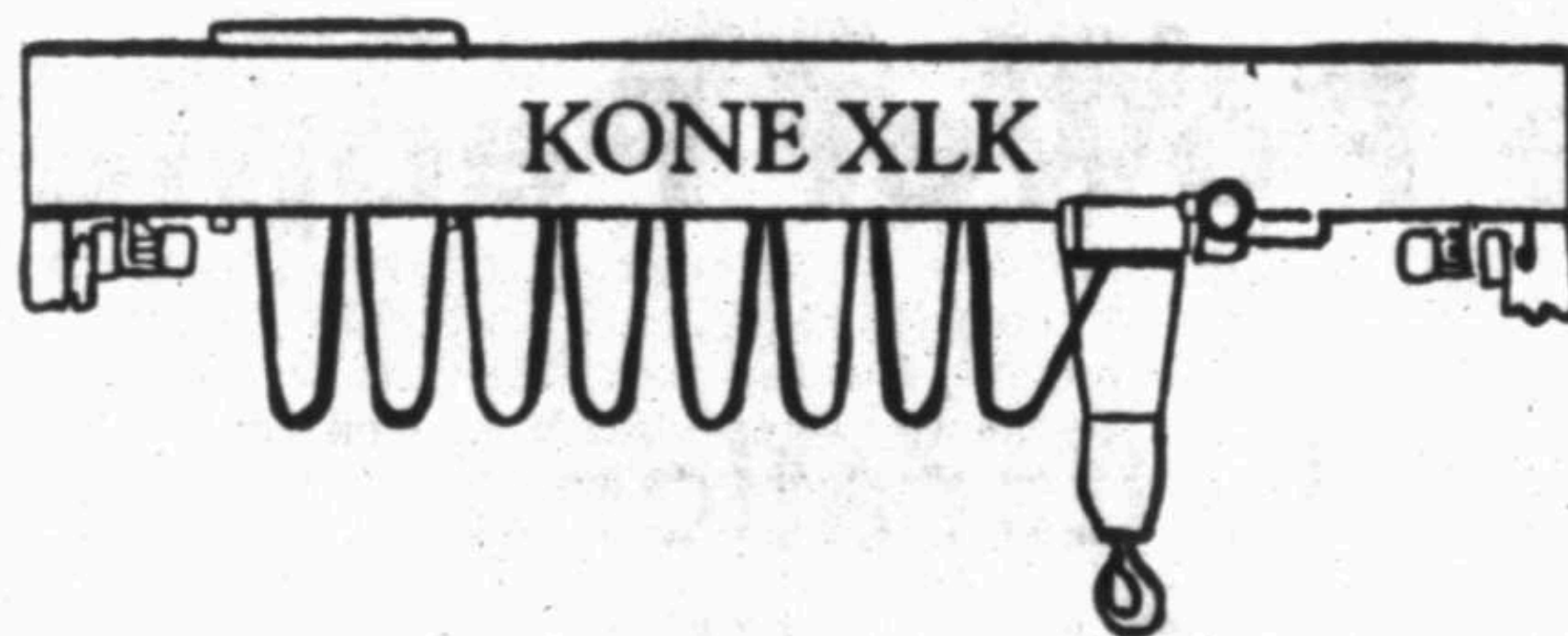
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TOWERS: Midland civic leaders helped build community assets

(From 60DD)

ber 1929 that precipitated the Great Depression.

The Hogans saw their one major asset become a terrible liability. Major companies moved out overnight, reneging on their leases. Only a few tenants remained.

The Baltimore bank refused to join the Hogans in suing the fleeing tenants because many of them were important tenants in other bank-financed properties. Eventually the bank took possession, and Fred was reduced to accepting \$8 a week as night janitor.

Although it had been referred to as "Hogan's Folly" during its construction phase, the Petroleum Building was a major asset in Midland's recovery during and after World War II.

Fred Hogan went on to prosper in the oil business, and served in 1946-47 as Midland's last full-time mayor. He was a charter member of Midland Country Club and was instrumental in the design and construction of the original nine hole golf course where Wadley-Barron park now is situated. The club house was on Cuthbert at B Street, where the old tennis courts can still be seen.

Hogan Park, originally a city water field, is named for his father, who died in Los Angeles in 1956 at the age of 87. Fred still lives in Midland.

The Scharbauer Hotel

The Scharbauer Hotel was fabulous, especially compared to the grimy rooming houses and clapboard hotels in the nearby dusty towns and was fabulous even by big-city standards.

The hotel, completed in 1928, boasted seven stories, 250 rooms, central heating and air conditioning, and a crystal-chandeliered ballroom. Another 200 rooms were added in the 1930s.

Clarence Scharbauer Sr. built the hotel and paid for its construction out of his own capital rather than financing it in the customary manner. Future additions were also paid in cash. He and his family — wife Ruth Cowden Scharbauer and son Clarence Jr. — had a penthouse apartment on the seventh floor, convenient to the nearby First National Bank, where Clarence Sr. was president.

Seven years earlier U.S. Highway 80 (the "Broadway of America") had been extended through Midland. The Texas & Pacific Rail-

way marked Midland as the midway point between Fort Worth and El Paso. The timing of the hotel's opening coincided with the rapidly growing oil business, and its spacious lobby soon became headquarters for historic oil deals throughout the Permian Basin.

Occasionally the cattle business took precedence over oil. During the annual Fat Stock Show, sponsored by the ranchers of the area, prize cattle were on display in the lobby. One visiting oil scout was quoted as saying that was the only time he had ever competed with a cow for hotel accommodations.

By the late 1930s, Scharbauer Sr. oversaw the operation of ranches in 13 counties in West Texas and New Mexico, and owned six in his own name. He remodeled and expanded the First National Bank to an eight story office tower at a cost of \$275,000.

He had come a long way from his boyhood days selling newspapers in New York City where he was born in August 1879, the descendant of Dutch immigrants. His father, Chris Scharbauer, moved with wife Jennie, Clarence, and two daughters to Midland in 1889.

Clarence's uncle, John Scharbauer, had established a huge sheep herd, and Clarence was put in charge of a herd near Stanton.

Scharbauer graduated from high school in 1898 and went to Waco to attend business school. He briefly attended Baylor University, and at age 21 was a prosperous businessman in his own right.

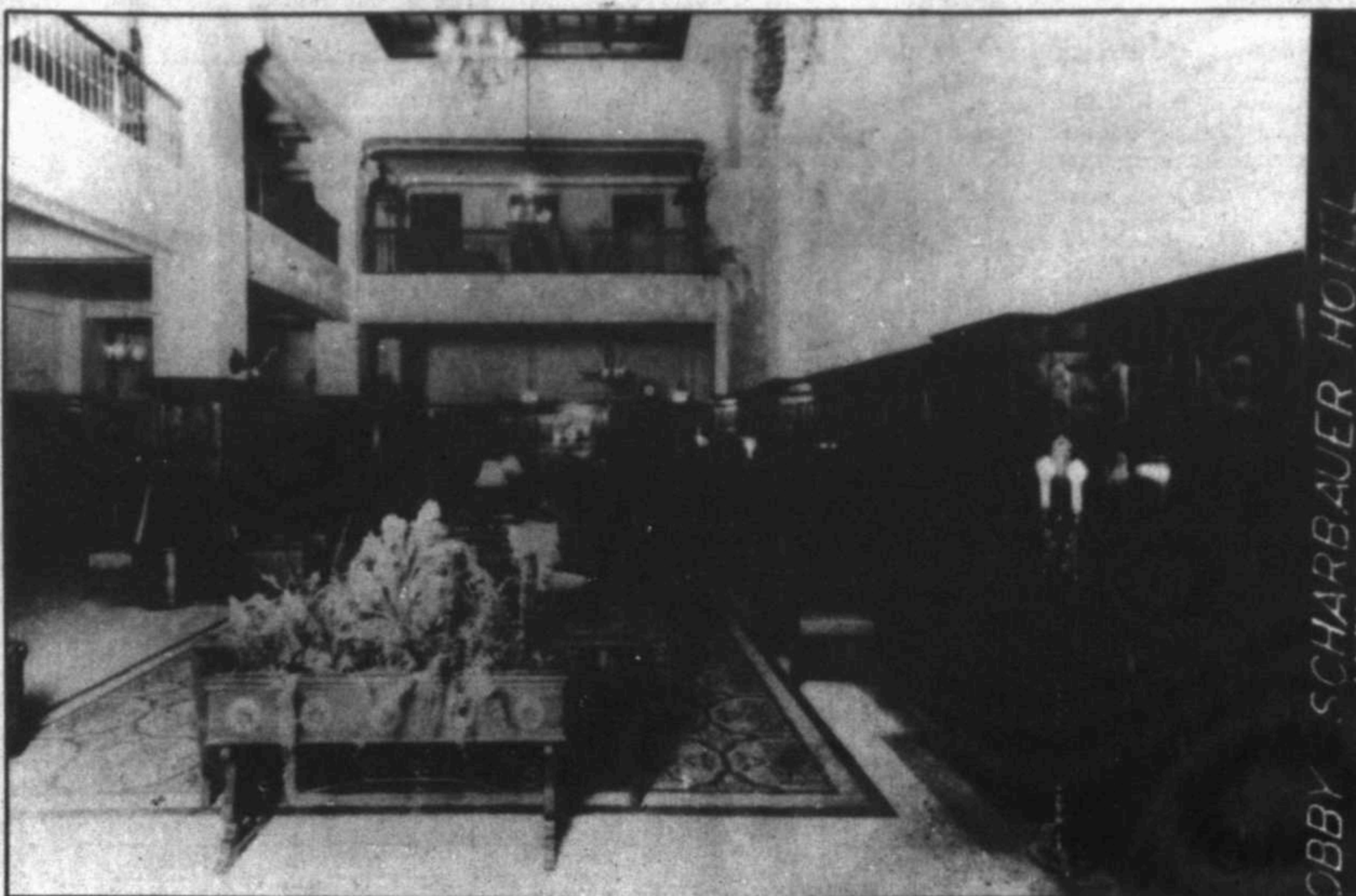
The Scharbauer Cattle Co. was organized with Clarence as manager in July 1901.

After his marriage to Ruth Cowden, Scharbauer homesteaded an eight-section tract near Fort Stockton six months out of each year. Headquarters for the families' expanding ranch properties remained in Midland.

Ruth had their first son, John Christian, in April 1911. Tragically, young Chris was killed at age 13 when a horse fell on him. A year later, in July 1925, Clarence Jr. was born.

Scharbauer raised registered cattle on his ranch in Goldsmith and oil was discovered there in 1935. Soon a large number of producing wells were adding to his personal fortune.

There wasn't much in Midland that Scharbauer Sr. didn't have a guiding hand in helping: he was



The Scharbauer Hotel, which was the site of many oil deals in its day, was owned by Clarence Scharbauer Sr. The hotel's interior was decorated by his wife Ruth.

Occasionally the cattle business took precedence over oil. During the annual Fat Stock Show, sponsored by the ranchers of the area, prize cattle were on display in the lobby.

president of the Chamber of Commerce in 1926; director of the West Texas Chamber in 1931; and was named the West Texas Chamber's "Top Texan" in 1938.

He played an active part in the Rotary Club, the Elks Club, the Midland Country Club, and the First Baptist Church. As a civic enterprise he established the area's first radio station, KCRS (whose call letters stand for Clarence and Ruth Scharbauer).

In November 1938 his friend T. Paul Barron wrote in West Texas Today Magazine:

"He can be approached by rich or poor, at any time, and shows interest in the caller's problems. He has the canny knowledge of 'big money' and makes decisions quickly, standing squarely behind his convictions."

When he died in October 1942 at

the age of 63, the Midland Reporter-Telegram published an "extra" addition with a front page obituary detailing his many civic contributions to Midland. At his side were Ruth, 17-year-old Clarence Jr., two sisters, an aunt, and a close friend.

Scharbauer Jr. had studied well his father's example, and within a few short years was imitating the family tradition, leading Midland into the second half of the century.

The Scharbauer Hotel was closed for good in May 1973 to make way for a more modern Hilton, which opened in July 1976 just in time for Midland's celebration of the U.S. Bicentennial. The Hilton recently changed owners, and was purchased by an absentee corporate owner.

The Thomas Building

Although it was the most impressive, the Petroleum Building was not Midland's first multi-story edifice.

In recent years the six-story building was known as Wall Towers South, after undergoing extensive renovation. For a time it was also known as the Leggett Building.

Originally known as the Thomas Building, on South Loraine, it is actually Midland's oldest office building still standing.

Construction of the Thomas Building began in late 1926 and it opened in 1927, about a year before the Scharbauer Hotel was

completed across the street.

Two floors housed the hospital clinic of Dr. John B. Thomas, and the remaining four were leased to oil operators who began arriving in great numbers.

Thomas built his office building when the Llano Hotel was sold. His former clinic had been on the second floor of the Llano.

A native of Dudley, near Abilene, Thomas moved to Midland in 1905 after graduating from The University of Texas Medical School and serving an internship at John Sealy Hospital.

He set up practice with Drs. W.K. Curtis and Woods W. Lynch in a frame building at Wall and Loraine.

Thomas was a surgeon and he received advanced medical training at New York Polyclinic Medical School and Philadelphia Polyclinic.

In 1908 Thomas married Read Hurt of Big Spring, daughter of Dr. J.H. Hurt. They had four children, Lillian, Lucile, Read, and John B. Jr. Lillian died before her 6th birthday. When his children were attending public schools, Thomas served as president of the Midland school board.

The Petroleum Building, the Scharbauer Hotel, and the old Thomas Building were important community assets at a crucial time in Midland's history.

They were a fitting reflection of the courage of the men who willingly took bold risks because of their vision of what might be. We owe a great debt to men like the Hogans, Scharbauer Sr., and Thomas.

Midland is no longer the small town it was in the pre-war years, but it is still a place where anyone is welcome to contribute talent, nerve, and wealth to achieve great things.

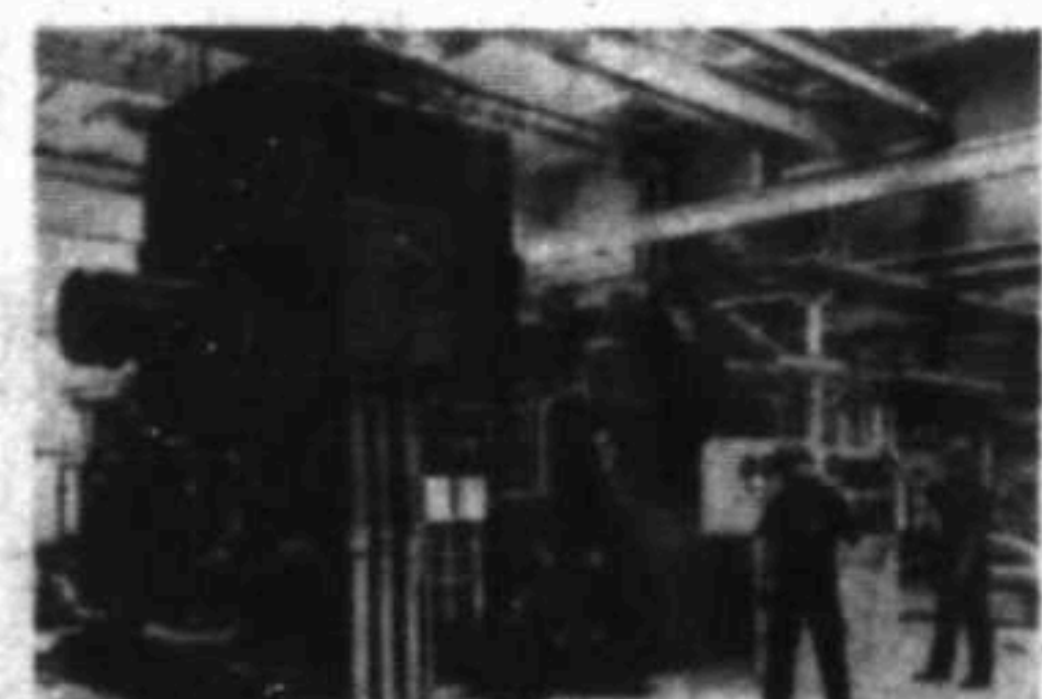
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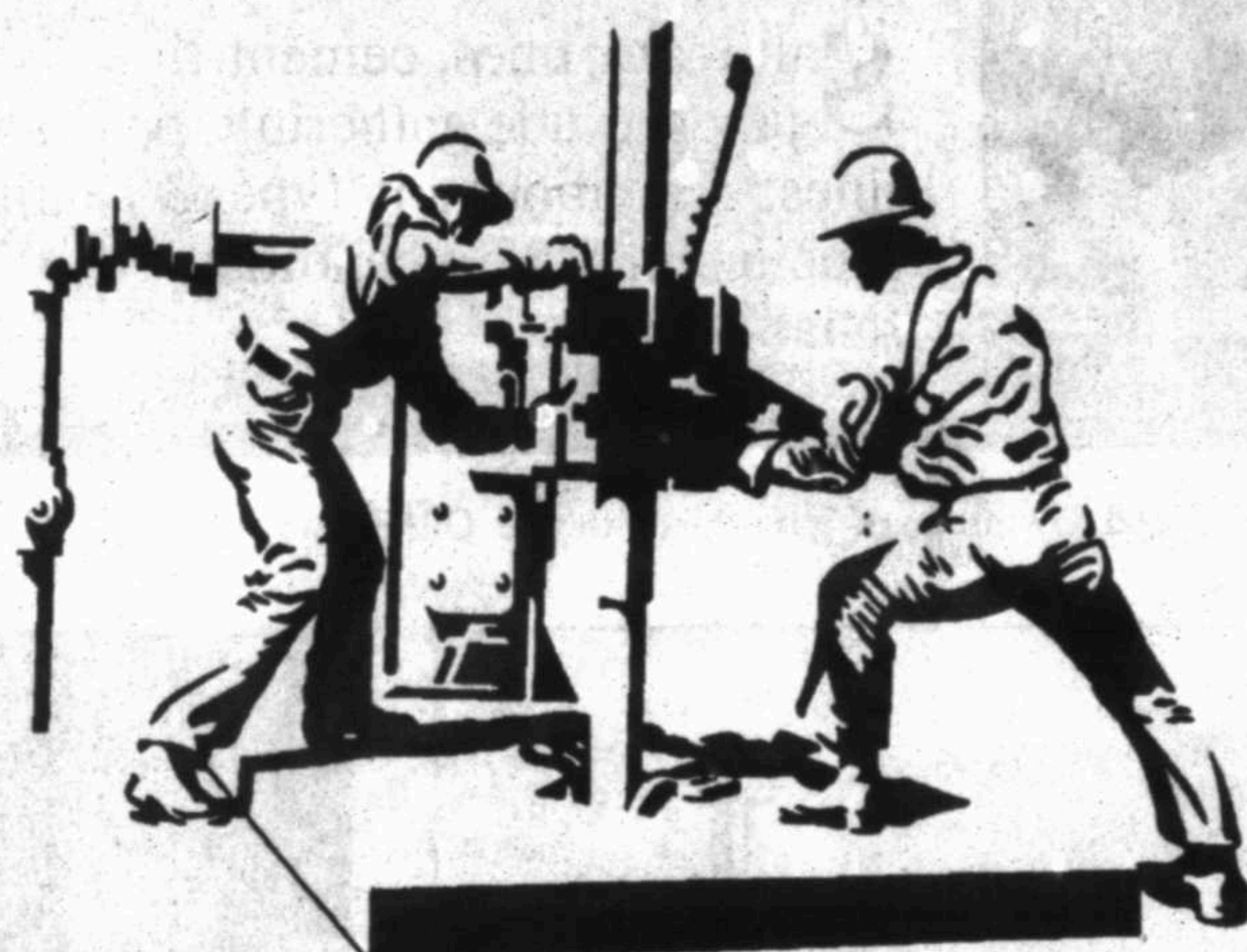
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Always striving to stay current in the industry, the Petroleum Technology Program now offers a course on computers in the oilfield.

Increase your chances for promotions and jobs by continuing your education with Odessa College's Petroleum Technology Program.

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OCT 18 1992



The first Oil Show, in the park and on the grass, looked much like a giant oilpatch swap meet at those first early exhibits. . .

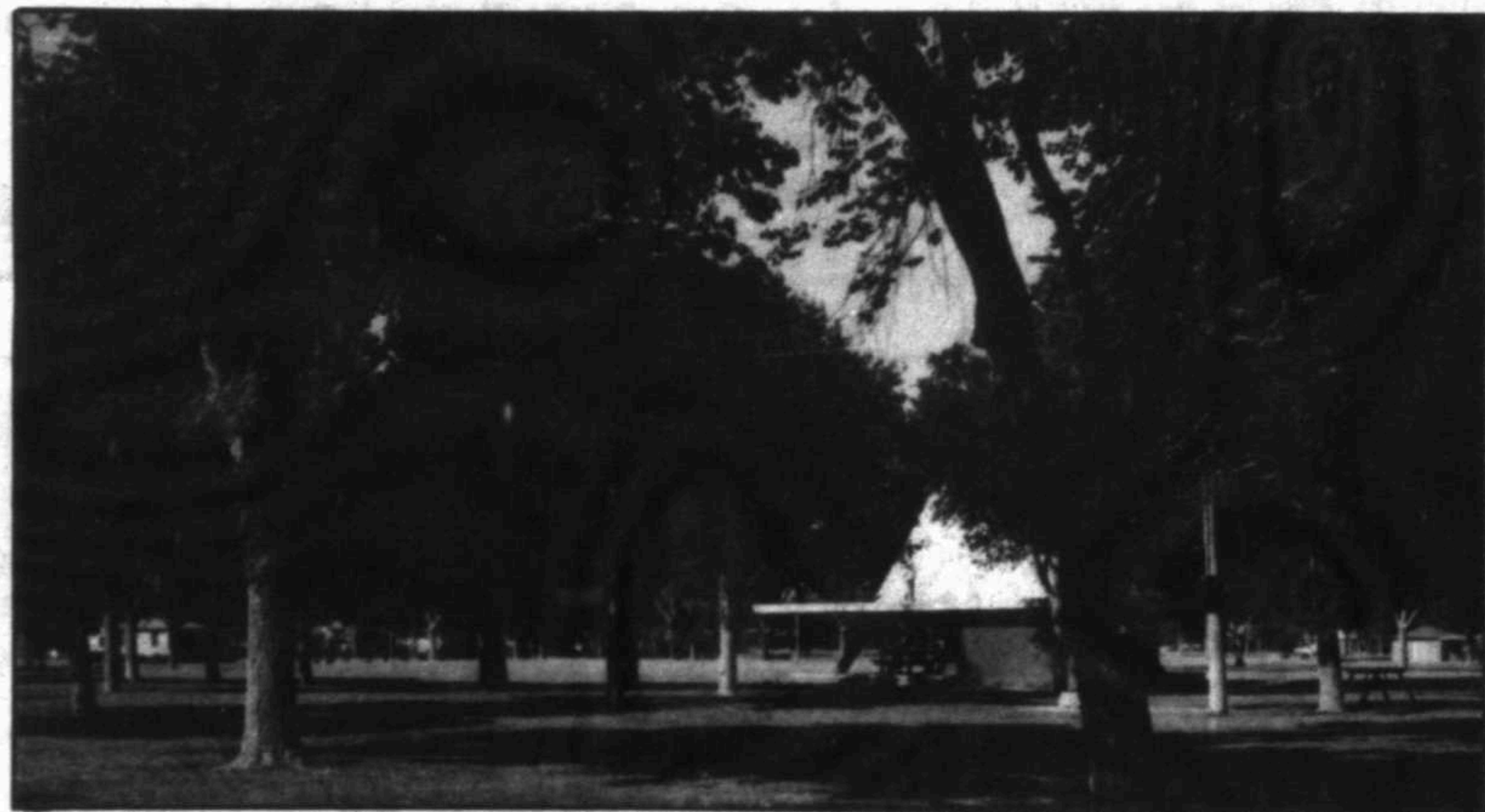
First Oil Show

The first oil show was actually a convention of the newly formed Permian Basin Association formed in 1939 at Colorado City.

When the second annual convention was held in Odessa in 1940 at the community center in Floyd Gwinn Park in Odessa, planners concluded that an exhibit of oil field equipment would add a special touch.

It was crowded and quaint in the park, but exhibitors flocked from all over the state and nation to Odessa for the opportunity to show their products to the Permian Basin oilpatch. And it did not take founders of the Oil Show long to realize that they had something big on their hands.

After World War II, the Oil Show moved from the trees and the grass to the Coliseum and Fair Grounds.



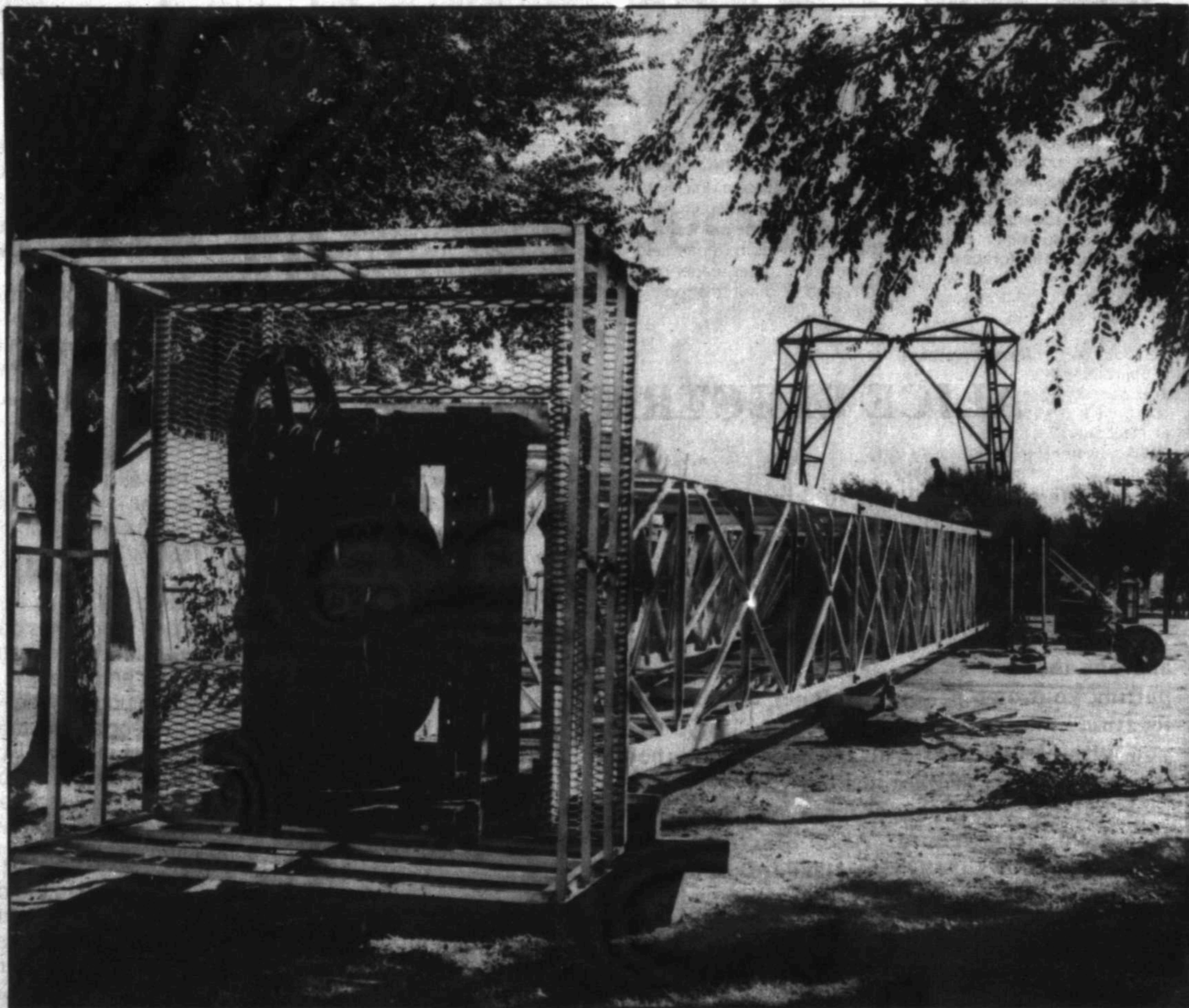
A tranquil Floyd Gwinn park gave birth to the Oil Show.



This combination mud mixer and shale shakers was new technology at the park show.



This hydraulic pumpjack did not make it in the field, but it did make it as a museum piece at the Petroleum Museum.



Space was tight at the park as evidenced by this drilling rig nestled among the trees before being rigged up.

Photos courtesy:
Permian Basin Oil Show

Page design:
John Paul Pitts

M

By Elle

Mento exempli the local Over t cess, sho dustries Midland economi Despit beginnin enced o Permian Mento ducer in of oil in history. While roads, M nal and water fr County J.J. Co N.A. Mu construc 1893 and was 200. Their much to proved t tion dep ground, Soon t what w named Oil Co., the first duced a The so needed drilling Four drilled t

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By John Business

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Mentone hasn't had much luck trying to diversify

By Ellen Hopkins

Mentone is a small town in Loving County that exemplifies the meaning of the phrase "diversify the local economy."

Over the years it shared in the oil industry's success, short-lived as it was in Mentone, and tried industries ranging from irrigation to ranching. But Midland has had far more success in diversifying its economic base than Mentone ever could.

Despite its similarities to Midland — both towns' beginnings were rooted in water and both experienced oil booms — Mentone did not become the Permian Basin center for oil or any other industry.

Mentone even claims the first commercial oil producer in the Delaware Basin. But even the discovery of oil in Loving County, along with a most colorful history, couldn't help the county seat's population.

While Midland began as a water stop for the railroads, Mentone was headquarters of the Loving Canal and Irrigation Co. whose founders were certain water from the Pecos River could transform Loving County into rich farmland.

J.J. Combs, W.A. Hunter, F.C. Ford, S.L. Mettler, N.A. Munn and R.G. Munn formed the company to construct irrigation ditches. They drew town lots in 1893 and in three years the population of Mentone was 200.

Their vision dried up as the quality of water left much to be desired. The water's high saline content proved too much for the arid land. Years of irrigation deposited inch after inch of salty residue on the ground, eventually killing the top soil.

Soon the ground surface was less important than what was beneath it. Early in 1921, two speculators named Wheat and Ramsey formed the Toyah Bell Oil Co., leased the Russell cattle ranch, and drilled the first well in Loving County, though it just produced a trace.

The scarcity of area water meant a substitute was needed for the steam engines used to power the drilling equipment. Drillers turned to gasoline.

Four years later the Pecos Valley Petroleum Co. drilled the #1 Wheat well near Mentone. Initial pro-

duction was 25 barrels in 24 hours from the Delaware Mountain zone at 4,272 feet. It became the first permanent producer in Loving County.

By 1928, Lockhart Brothers Co. tried and completed several other producers around 4,200 feet with most accompanied by gas. It was the Hadlock Oil Co.'s #2 Russel which financed a four-mile, two-inch pipeline from the Wheat Oil Pool to a tank car on the Santa Fe Railroad at Arno. From there it was transported to the El Paso Refinery.

By mid-1929 Loving County had 12 producing wells but many drilling difficulties. Materials and equipment were hauled more than 50 miles from Pyote in Ward County, the nearest supply center. According to the March 13, 1931, edition of the Pecos Enterprise, water sold for 75 cents a barrel while crude brought 73 cents.

That same year Mentone had five cafes, two hotels, 2 barber shops, a dance hall, a machine shop and a population of around 600. The county school was relocated to Mentone from Porterville and oil camps were built.

Steve Scott, Midland engineer, attended first-grade at Mentone Public School in 1940. His father worked for Standard Oil Co. of Texas, now better known as Chevron, and the family lived in the oil camp.

"There was a water well north of the camp that provided all our water," Scott said. "It was pumped to a wooden tank near the camp. The tank was elevated enough to allow the water to flow to the houses in camp."

Scott said there was plenty of water to grow a lawn, elm trees and flowers.

The camp had a croquet court, but other than that, Scott said children entertained themselves by watching the sun rise and set, went fishing in the Pecos River, and climbed derricks to view nests birds built in them.

"In the '30s and '40s every well had a permanent steel derrick built around it which was bolted to cement blocks on the ground. It took a lot of nuts and bolts. In order to pull pipe out of a well, a

pulling unit was used."

Scott's father used to operate a pulling unit, which basically looked like a large spool of cable on the back of a pick up truck. Many years later, Homer Fort, original curator of the Permian Basin Petroleum Museum, found the same truck parked in Mentone's courthouse square.

Despite flat tires and weed-filled windows, Fort rescued and restored it, and it currently is displayed at the museum.

About 20 miles northwest of the Wheat Field, Loving County's second oil field opened production in 1937. By 1940 there were 46 leases in Loving County and within two years the Wheat Field had 86 producing wells averaging 882 barrels of oil a day. The Mason Field had nine active wells in 1943 producing 140 barrels a day.

The prosperity was short-lived. Declining oil production was soon replaced by deep gas production with larger spacing requiring less equipment and personnel. Mentone's population soon reduced about 150 people.

The only remaining residents turned their attention to political matters.

Twenty years ago the Odessa American reported that Mentone had its share of problems with the federal government.

Government regulations dictated that every county institute a food program, including food stamps. Mentone residents fought the ruling, stating that every citizen in Loving County was eating three

square meals a day. When the government regulated that schools be integrated, Mentone again came up short-changed. The town only had one school.

The town really didn't care much for government rules and regulations; all the residents wanted was good water.

According to Loving County Clerk Juanita Bushy, today Mentone has just under 30 residents, a cafe, post office and service station. The area is basically comprised of cattle ranches.

Along with the population and level of activity, the town's water situation has also declined.

"We've never had a water system for the town," said Mary Belle Jones, chief appraiser for the county. "We get our water from a storage tank the county put in two years ago. The water is piped from a well five miles out; it sure saves having to drive to Pecos or Kermit."

She said a water softener company in Pecos tested Mentone's well water and admitted even their reverse osmosis equipment plus their softeners couldn't make the water palatable. "It would be like trying to soften the ocean," Ms. Jones said. "Even our cattle won't drink it."

Considering its limited resources, Mentone probably never will catch up to Midland even if another oil boom strikes.

And although the cities have expanded at vastly differing rates through the years, one similarity remains: the West Texas survival spirit is alive and well.

Motorists get biggest tax subsidy

By John Paul Pitts
Business/Oil editor

An Analysis

When the oil industry goes to Washington seeking tax relief help or incentives to get an ailing business moving again, they have often been accused of seeking subsidies, or in plainer terms "looking for hand outs."

Perhaps consumers would do well to look at their own record when it comes to subsidies.

According to the World Resource Institute, one of the biggest subsidies in the nation goes to the American motorist who pays less for gasoline and drives more than anyone else in the world.

The institute says the nation's addition to cheap gasoline is akin to a subsidy of hundreds of billions a year to motorists.

The institute said much of the nation's road construction, traffic management, law enforcement, free parking, and the cost to the environment is not covered by the

cost of gasoline. If the true cost of driving were charged to vehicle owners, it would result in a cost of several dollars a gallon.

But as it is, government subsidizes driving to the tune of more than a dollar a gallon, according to the report. It also notes that Americans enjoy bargain prices in energy, paying more for most brands of bottled water than gasoline.

Here's how the report breaks down the auto subsidy:

- Gasoline taxes and other fees cover only about 60 percent of road construction and maintenance costs in the United States.

Other expenses not covered by motorists include:

- \$68 billion to provide such things as police protection, traffic management and routine street maintenance.

- An \$85 billion subsidy in free parking provided by employers and businesses.

- \$10 billion for environmental damage to trees, vegetation, crops, material and human health by vehicle carbon dioxide emissions, which account for 25 percent of all carbon dioxide emissions.

- \$100 billion in market losses because of congestion.

- \$55 billion in losses from vehicle accidents that are not borne by motorists.

- \$15.6 billion in noise and vibration damage caused by automobiles.

INSTANT: Oil patch automated

(From 59DD)

rel of fluid it has a slower speed than when it begins to pound fluid," Mills said.

Measuring the difference between full pump speed and fluid pound speed provides a delta factor used in calibration.

Mills' Well-Tender POC also features a security key and a patented alarm that sounds 10 seconds before a well resumes pumping so operators on location can avoid injury.

Reports generated by the Well-Tender can be printed twice daily and indicate well status and run percentages for successive days. Use of radio telemetry provides a self-sustaining means to check a well rather than wait for a report.

"Comparison of the report's run percentages tells the operator if there could be a potential problem," Mills said.

"For example, in a waterflood area if one well shows an increase the operator will get a well test to see if the increase is due to the flood or if it is signaling a potential mechanical problem."

Mills said the Well-Tender is designed so if lightning shuts off the electricity, the pump will automatically start up again at the beginning of the cycle because fluid has built up. This happens without someone driving out on location.

Both Delta-X and D-Jax offer digital recorded messages on wells with pump off controls. "If a flow line leak is detected in the middle of the night, the central computer calls a designated phone number and a recorded message announces the problem," Pike said.

"The answerer inputs a code over the phone to indicate the message has been received. If no code is input, the computer calls the next number stored and so on until someone in the company is made aware of the problem."

Pike said many of the majors' wells in Permian Basin fields are automated, such as Exxon's Fullerton and Means fields.

"The wells tied into Shell's plant at Denver City have operators monitoring them 24 hours a day," Pike said. "And virtually every major field Amoco has is automated. Texaco, Chevron and Phillips are also using POCs."

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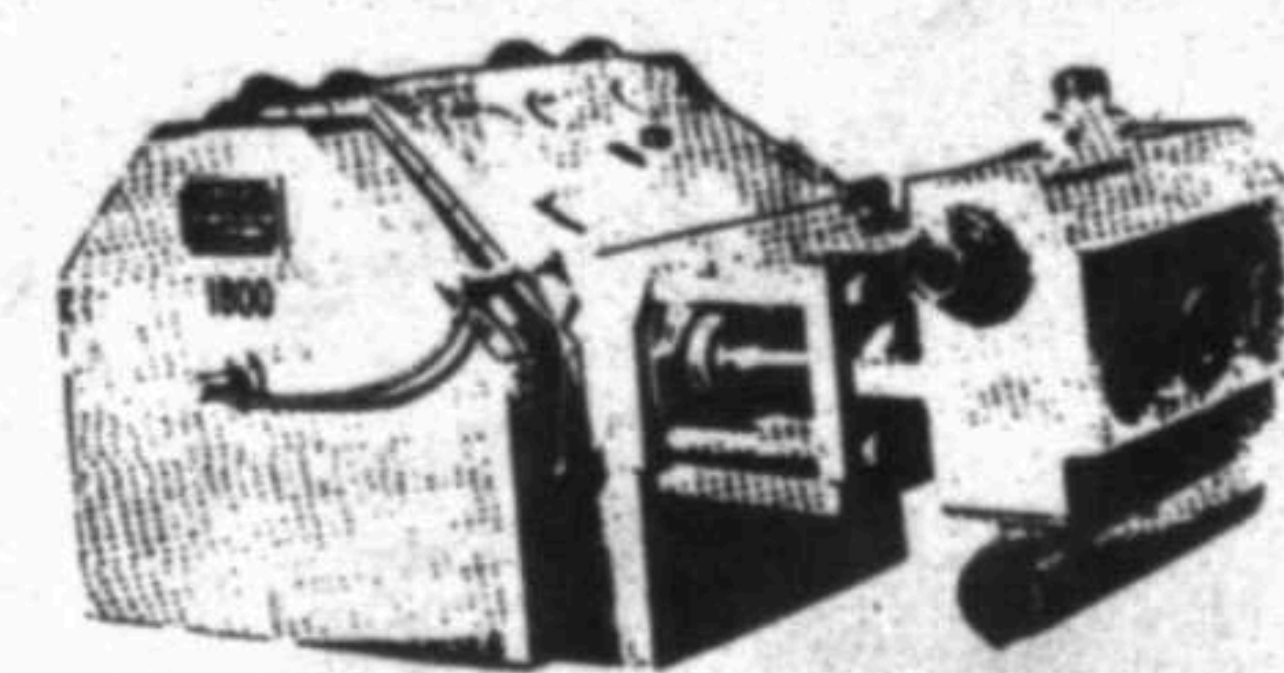
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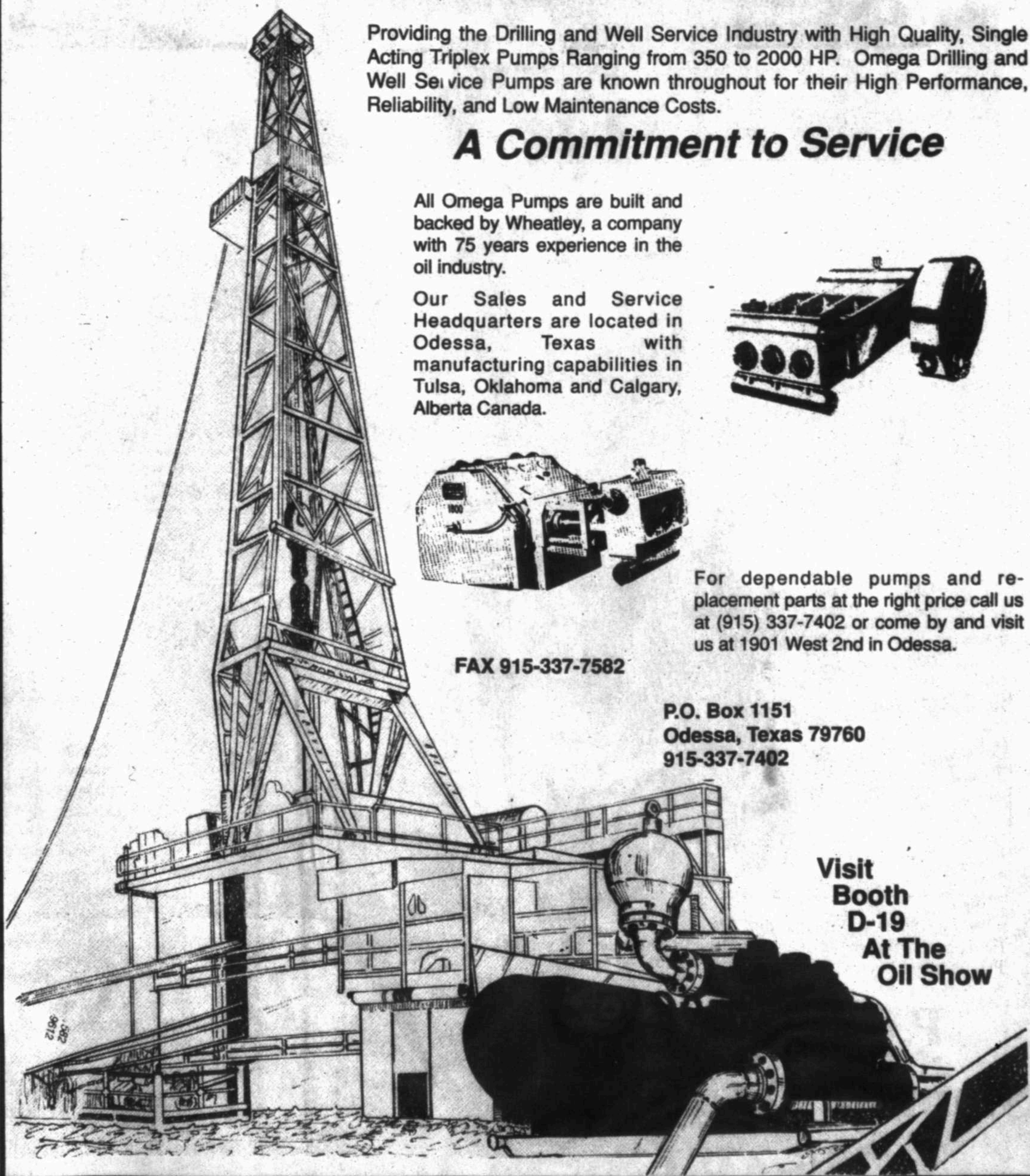
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And not just for electric power. Each year, Cap Rock Electric gives more than \$10,000 in scholarships, awards, educational tours and incentives to local high school and college students.

We also support education through \$550,000 in annual property tax payments. We think of our educational support as an investment in our future. We believe, along with you, that young people are our greatest resource, and education the best way to secure their future.

We stay heavily involved with area schools because we're not just any utility. We're customer-owned Cap Rock Electric. And we believe in doing more than expected.



You're Welcome, Ronda.

It's 36 miles from Ronda's Kwik Stop in St. Lawrence to Cap Rock Electric headquarters in Stanton, but to hear Ronda Halfmann talk, the two companies sit side by side. There's the time high winds knocked out power to her store and all the frozen food started to melt. "They were out here in a flash, fixed it and we ate all the soupy ice cream together," she laughs.

And the time they were making a routine pair call at her home. "I had a snake under my house, so the guys got rid of it for me," she says. She recalls the heavy boxes filled, the faulty water heater fixed.

"I've lived here all my life, and I couldn't tell you everything they've done for me," she says. "They're Good Samaritans as well as being electricians."

Cap Rock Electric understands that being a good neighbor is part of running a successful business. And it shows. We recently won a top national award for outstanding customer service from the National Rural Electric Cooperative Association. To small business customers like Ronda Halfmann, we're not just any utility. We're customer-owned.



You're Welcome, Dan Loftin.

Independent pumpman Dan Loftin knows about extra miles. He drives 180 miles a day servicing operations of 40 wells in Reagan and Glasscock counties. He counts on companies like Cap Rock Electric to make his job easier and more profitable.

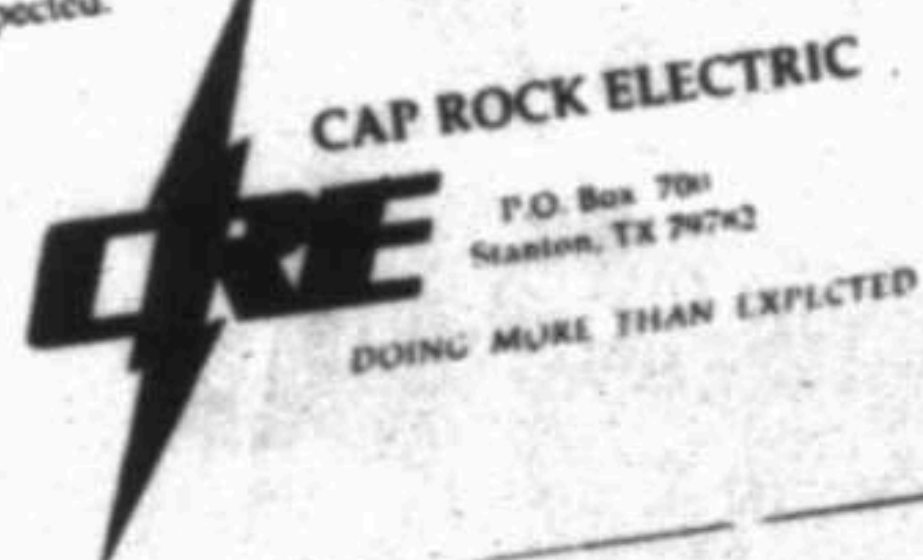
"If a fuse goes out on an electric line, you can't run that well until the line is re-fused -- and you sure don't want to have to wait two or three days to get that well working again. If the well is served by Cap Rock, the more you're going to have to wait is a day. In most cases, it's just a matter of hours," says Dan.

"They know where every water well and every oil well is located. They know what the problem is, where it's located, and how to get it fixed in a hurry," he says. In fact, Dan says, doing business with Cap Rock is "kind of like doing business with family."

It should be. We've been part of the oil field business of West Texas for more than 40 years, serving nearly 6,000 oil wells. In fact, we're the only electric company headquartered in the Permian Basin.

To us, Dan Loftin isn't just any independent pumpman. He's our neighbor and a businesswoman.

And to Dan, thanks to proven performance, we're not just any utility. We're customer-owned Cap Rock Electric. Doing more than expected.



Cap Rock Electric Wins 95% Satisfaction Rating.

Cap Rock Electric just completed its annual survey to determine how members really feel about the management and operation of their co-op. The overwhelming majority (more than 95%) responded that they are satisfied with the way Cap Rock is being operated.

It came as no surprise to us that 94% of our members said quality of service and reliability are their top priorities when it comes to electric power. They're ours too. And we won the 1992 top service award from National Rural Electric Cooperative Association as further proof we continue to meet that goal.

We know our members sometimes take us for granted. As far as we're concerned, that's the way it should be. If we're doing our job -- taking care of your needs and dedicating ourselves to working in your best interests -- you shouldn't have to be concerned with your electric power needs. But like a good neighbor, we're always there when you need us.

We have published the results of all of the questions asked in our survey and you are welcome to a copy. Just pick it up at Cap Rock's office in Stanton or at our annual meeting in September.

Thanks for your support.



You're Welcome, Jack.

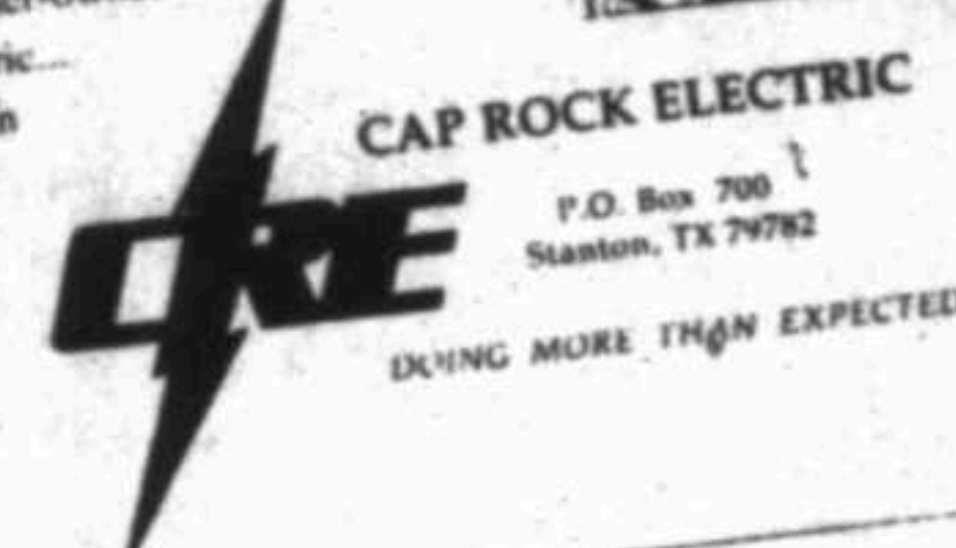
When farmers like Jack Wood of St. Lawrence depend on us daily to keep the pumps that keep the crops growing, we're an electric cooperative, we've depended on farmers like Jack for leadership, and we're an irrigation customer calls, we offer more than reliable, reasonably priced and empty delivered electric power. We also offer:

- A thorough understanding of his business
- Programs for saving him money on his electric bill
- Customer response to his needs
- A promise to listen when he offers us advice

It's not surprising that 99.7 percent of our 22,000 customers tell us we're doing an excellent job.

To us, Jack isn't just any customer. He's a neighbor and a fellow businessman.

And to Jack, thanks to hard work, we're not just any utility. We're customer-owned Cap Rock Electric. Doing more than expected.



You're Welcome, Zada.

Zada Cave was working out in her cotton field when she saw the dark pillar of cloud on the horizon. She jumped in the pickup truck and headed north, to the mobile home where she knew her daughter-in-law was alone with two small children.

"It was bad. Bams were scattered. Tin everywhere. The Flower Grove Gin had been hit pretty bad," she recalled of the tornado that struck near Ackerly in June, 1991.

The family was OK. But when they all went back to Zada's home, the electricity was out. Power lines were down for miles, and Zada told her family not to expect power to be restored for days.

But only a few hours later, the lights came on.

"I don't know how those guys did it. They must've worked all night long. But they got the power up and running, and it sure made life easier for us," she said.

Doing more than expected. We do it all the time.

Like giving away \$10,000 in annual college scholarships and educational awards and incentives, free energy audits, and substantial rebates for buying or installing electric water heaters. (for information about any of these programs, call us at 1-800-442-8688.)

And each year we provide nearly \$550,000 in tax support to local schools, and generate millions in additional economic benefit to the communities we serve.

But we're proudest of our extraordinary record of customer service. We count on us to keep the power on. We're customer-owned Cap Rock Electric. Doing more than expected.



"Cap Rock knows what's expected and delivers."

Danny Kellum
Parker & Parsley

You're Welcome, Danny Kellum.

Danny Kellum knows how to deliver. The district manager for Parker & Parsley Petroleum Co. oversees the pumping of half a million barrels of oil from the Permian Basin each month.

He expects the people he does business with to match his performance. That's one of the reasons he likes Cap Rock Electric.

"Cap Rock knows what is expected and delivers. That's what it's all about," says Kellum. "That's what makes a good business relationship."

He also likes doing business with a company that understands the demands of the oil industry. "When we're completing a drilling project we work at a furious pace. Things get pretty hectic," notes Kellum. "Cap Rock's always been there on time and on schedule. They know how important it is to get the well working."

You bet we do. We've been an integral part of the West Texas oil economy for more than 50 years. Today we serve some 6,000 wells -- and oil companies make up more than half of our business.

So when it comes to customers like Danny Kellum and Parker & Parsley, we deliver. In fact, we make it routine to deliver more than expected. As a result, 99.7% of our 22,000 customers tell us they think our service is terrific.



DOING MORE THAN EXPECTED

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INSIDE



Gas demand

A Norton rig drills for deep gas in the Val Verde Basin. Formation of the Natural Gas Council which seeks to increase natural gas demand in the U.S. by 2.5 Tcf could put deep rigs back to work.

The council formed in July wants to increase demand through oil-to-gas conversions, cogenerations and new markets including the addition of 50,000 natural gas vehicles.

Please see COUNCIL/71EE

Getting big

Parker & Parsley, Midland's largest independent oil company has more than doubled its size through acquisitions and mergers during the downturn, and with a \$250 million line of credit is the most active driller in the Basin. In 1991, the aggressive oil company was fifth in the nation in completions, coming in behind Shell, Mobil, Texaco and Chevron.

Please see P&P/56EE

Tight sands

The tight sands tax credit of Section 29, which expires this year, has long been a controversial incentive in the oilpatch. Some will miss it, others will not. There is no question that the incentive worked. It caused thousands of wells to be drilled that would have otherwise gone undrilled, but some said the tax credit should have been more evenly spread throughout the industry instead of on a solitary exotic investment.

Please see SANDS/67EE

Divestiture

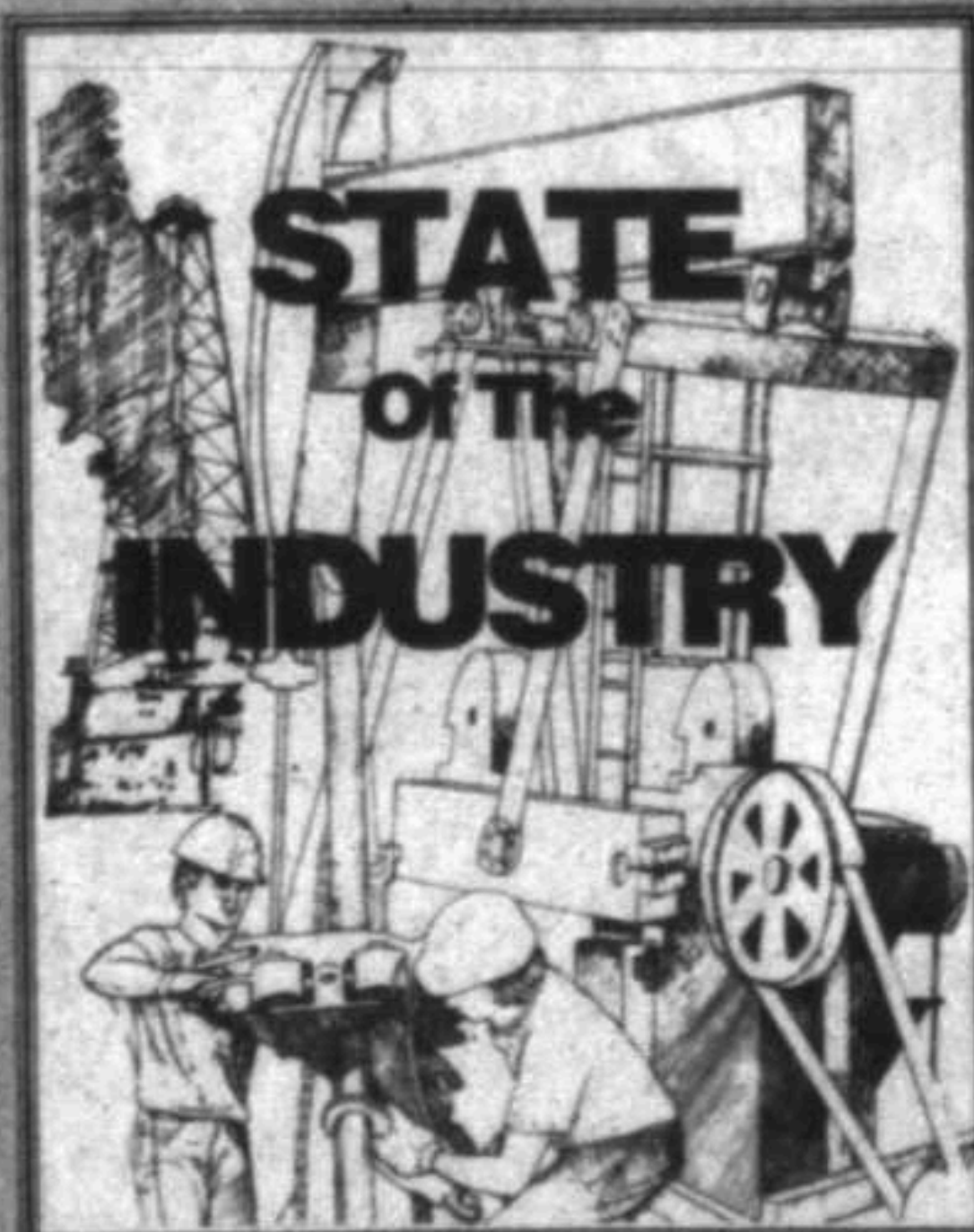
The shedding of oil and gas properties has turned into a major industry in the Permian Basin. Major oil companies explain what they are selling and why.

Please see MAJORS/78EE

Foreign oil

Foreign oil may pose a trade imbalance for the U.S., but it also poses an opportunity for the manufacturers of oilfield equipment in the Permian Basin.

MANUFACTURERS/76EE



A new day

It's a new day for natural gas. Nearly 40 years of regulation are coming to an end. Prices are improving and everyone from the president to the mayors of large cities are calling for the increased use of clean-burning natural gas.

Natural gas supply, demand, production, transportation and applications, promise to be at the forefront of oil and gas issues for the remainder of the decade.

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SECTION FF Local



Joe D. Williams/Reporter-Telegram

Large natural gas wellheads such as this one at the Permian Basin Petroleum Museum were once a hot item for deep gas drilling, and could once again be an in-demand item as natural gas prices increase, and gas drilling comes back.

Natural gas dawn

By Robert Anderson

Analysis

It's a new dawn for natural gas. On January 1, 1993, natural gas will finally deregulate, bringing to an end an regulatory odyssey of nearly 40 years.

Natural gas was regulated for the first time in the interstate market in 1954. That year, natural gas was a not-so-desirable product of oil drilling and, and because of a lack of markets could command a price of only 5 cents per mcf. In West Texas, one could see the flares of burning gas at night as few pipelines were available to collect any but the biggest natural gas producing wells. The markets for natural gas were few and far between, but not today.

Today, government, industry and consumers alike are pleased at the prospect of burning clean natural gas as a transportation fuel. Today, one can drive a car powered by natural gas and refuel it at home, like Don Evans, President of Tom Brown, Inc. In many cities, it is possible to ride a bus to work powered by natural gas.

All this has made natural gas the golden fuel. Both federal and state governments are passing clean air legislation which promotes the use of natural gas. The Federal Energy Regulatory Commission finds itself discussing natural gas more and more at their meetings each month. The newspapers are full with natural gas related stories, such as this one.

The road from 1954 to the present has been a long one for natural gas producers. The Natural Gas Policy Act of 1978 caused a huge drilling surge as a result of the highest prices for natural gas in its history.

But, phased-in deregulation under the same law may have led to a wellhead price collapse in February, 1992, even though some say the \$10.00 per mcf in 1981 was equally to blame, when consumers simply were not willing to pay heating bills which eventually would

Please see GAS/68EE

Tight sands tax credit divides natural gas industry

By Bill Mintz
Hearst News Service

WASHINGTON — Most observers agree that a tax credit designed to encourage drilling for natural gas from exotic geological formations worked.

Some would even say it was too successful.

At a time when both drilling activity and natural gas prices have been in the dumps, some producers continued to drill for gas from tight sands, coal seam and Devonian shale formations.

But all that could change next year as incentives to drill for such difficult-to-get-to gas expire.

Producers' incentive was Section 29 of the tax code, which provided a credit of about 55 cents per 1,000 cubic feet for production from tight sands and 85 cents per thousand cubic feet for coal seam gas.

The credit, which was set to expire on Dec. 31, 1992, had prompted a flurry of late-year drilling as producers had rushed to spud tight-sand gas wells before the credit expired. The credit was not extended in the recently passed National Energy Strategy.

Still, "Section 29 of the tax code shows without a doubt that tax credits do create investments," said Craig Goodman, a tax expert with Mitchell Energy & Development.

The credit "has proven to be very successful and valuable," said E. Joseph Hillings, head of Enron Corp.'s Washington office.

Opinions within the oil and gas industry varied regarding the tax credit. Some in the industry say that natural gas reserves would have been developed with or without the credit, especially in light of the recent upsurge in natural gas prices to over \$2 in the aftermath of Hurricane Andrew, which damaged or destroyed platforms in the Gulf of Mexico.

"It was absolutely vital to us," said Doug Maddy, executive director of the Independent Oil & Gas Association of West Virginia.

"If \$1 billion in tax relief is going to be spent on production-type incentives, it would be better to spread it all around the industry instead of targeting it to one kind of high-cost exotic investment," Goodman said.

"A lot of people are blaming the credit for low prices," said Bill Le-

'Section 29 of the tax code shows without a doubt that tax credits do create investments.'

— Craig Goodman,
Tax expert, Mitchell Energy & Development

May, director of the oil conservation division of the New Mexico Department of Energy, Minerals and Natural Resources. "You have to sell the gas to get the credit."

The credit had its origins at a time when many experts thought the nation was running low on gas and policy-makers wanted to encourage more development. Producing gas from tight sands and

coal seam formations is a slower, more expensive process, so the tax credit was considered necessary to make the wells economically viable.

Hillings, the Enron official, said the declining drilling rig count will revive that argument. He said Congress has adopted policies aimed at increasing demand for gas, and the tax credit will make

sure the gas is there to meet that demand.

The split in the industry has made it harder for legislators who have supported the tax break in the past to push the bid for an extension, said Rep. Mike Andrews, D-Texas, a member of the tax-writing House Ways and Means Committee.

The wide-ranging energy bill just passed by the House and the Senate provides independent producers with about \$1 billion in relief from provisions of the alternative minimum tax system that discourage drilling activity.

Most energy industry groups and their supporters in Congress focused their attention on the minimum tax relief, Andrews said. In addition to West Virginia and

other Appalachian natural gas producing areas, the credit is important in Alabama, parts of East Texas, the San Juan Basin of New Mexico and large parts of Wyoming and Colorado.

In addition to Enron, companies that have been major players in the tight sands and coal seam areas include Mitchell Energy, Amoco, Meridian and Chevron.

Many independents have soured on the credit because they can't use it to offset minimum tax obligations, Goodman said.

The Natural Gas Supply Association, the Washington-based trade group that lobbies for the major gas producing companies, has opposed extension. A spokeswoman for Amoco said the company hasn't taken a position on extension.

GPM Gas names marketing director

HOUSTON (AP) — GPM Gas Corp. has named John E. Sweeney director of natural gas products marketing. In this newly created position, Sweeney will be responsible for marketing the company's natural gas liquids, helium and sulfur production. Previously, Sweeney was director of natural gas marketing for the Company's New Mexico region.

R.A. Cargile, currently director, natural gas marketing, West Texas region, will become director, natural gas marketing, West Texas/New Mexico regions. His responsibilities will be expanded to include the marketing, gas control and contract administration functions of both regions.

Sweeney has held various positions in the crude oil trading and supply side of Phillips Petroleum Company. Previous positions in gas marketing include director of direct sales in Carlsbad, Calif. Sweeney began his career with Phillips in January 1985 in the financial and accounting area.

A native of Olean, N.Y., Sweeney received a bachelor's degree in accounting in 1977 from Providence College. He and his wife, Andrea, have three children.

Cargile joined the company in 1982. Before joining the marketing organization in 1986, he was a gas supply project development engineer and worked in the company's planning and development group.

A native of Memphis, Tenn., Cargile received a bachelor's of science degree in chemical engineering from Christian Brothers University and a master's of business administration degree from the University of Houston. He and his wife, Maria, have two children.

GPM Gas Corp. gathers, processes and markets natural gas and natural gas liquids. It has more than 22,000 miles of gathering lines and 21 natural gas processing plants in Texas, Oklahoma and New Mexico. It is the largest natural gas liquids producer in the United States. Based in Houston, GPM is a wholly owned subsidiary of Phillips Petroleum Company.

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A well crew from X-Port Well Service performs a rod change. While a majority of producers

continue to use steel sucker rods, fiberglass sucker rods have established a market niche.

Rod comparison continues with fiberglass vs. steel

■ Innovations have boosted fiberglass sucker rod use, but some still cling to steel rods.

By Ellen Hopkins

Innovative technology usually makes the rest of the world sit up and take notice. Someone's product gains attention through its obvious benefits.

What may not be quite as obvious is where the idea began. But Permian Basin oil-industry related personnel realize that sometimes innovative ideas originate in West Texas.

Russ Rutledge asked John Freeman in November 1978 if he could design a fiberglass sucker rod. By March of the following year, the two men and Tommy Rutledge had tested and begun manufacturing fiberglass rods under the company name Fiberflex, Inc. They experienced immediate success and the rods are now used worldwide.

"We had one of those lucky breaks," Freeman said. "Some companies were buying fiberglass then because there was a shortage of steel rods at the time."

Freeman said there has been a continually broadened application of fiberglass rods because of their corrosion resistance and ability to increase production, especially on deep wells.

"There are places where it is more economically feasible to use steel rods, though, like in some shallow wells," Freeman said.

The major difference between fiberglass and steel sucker rods is not strength; it is that fiberglass stretches. This stretchability is considered the main advantage fiberglass has, and the reason some producers are spending money to pull steel rods and replace them with fiberglass.

"Producers don't want to lift a steel rod, they want to lift fluid. That's the name of the game," said

Ray Campbell, manager of engineering for Fiberflex.

He explained that the weight of fiberglass is about one-third the weight of steel. "And it stretches 4-1/2 times more," Campbell said. "A rod that stretches, or has the ability to achieve 'overtravel,' will lift more fluid."

The reduced weight translates to lower gearbox torque.

"The capacity of a gearbox to lift fluid is limited by the weight of the sucker rod system being used," Campbell said. "Since fiberglass rods weigh 70 percent less than steel, they've been used with all types of equipment, even on wells as deep as 14,700 feet."

"The idea is to optimize a well's potential to produce fluid," said Mark Neinst, sales manager with Fiberflex. "All things considered the expense of replacing steel rods with fiberglass is justified because it means production at a lower cost/barrel."

Neinst said fiberglass often has been used in secondary recovery efforts because of the additional fluid production. For example, a well that has produced 200 barrels of fluid per day for 30 years now has to produce that amount plus an additional 200 barrels of water.

Campbell said many producers switching to fiberglass have found they can continue to use existing equipment with no other modifications.

Cliff Drescher, vice-president of operations with Tom Brown, Inc., cited success on a well in the Two Scotts Field in Garza County.

"We were at the extent of our producing capability with the existing equipment," Drescher said. "So we installed fiberglass instead of purchasing bigger pumping equipment."

He explained that buying a larger, conventional pumping unit would have cost approximately \$25,000.

"Installing fiberglass with our existing equipment ran about \$15,000," Drescher said. "The well was making 100 barrels of oil and 245 barrels of water per day. After

installing fiberglass it increased to 120 barrels of oil and 284 barrels of water per day. Payout took two months."

Campbell explained that on new wells a major expense after completion is the pumping unit. Using fiberglass rods from the start translates to designing smaller surface equipment, so there is an initial cost savings.

"And because they're using less horsepower that means an overall savings in electricity," Campbell said.

Norris Sucker Rods, headquartered in Tulsa, sells both steel and fiberglass rods. Clayton Hendricks, manager of technical services and chief of engineering for Norris, said a well's surface equipment is the limiting factor in determining whether to switch from steel to fiberglass.

"If the surface equipment can handle the load, even with a great volume of fluid, producers will stay with steel," Hendricks said. "You don't want to overstress the pumping unit."

Hendricks said steel has some advantages over fiberglass. "Steel can be more forgiving when pumping conditions are unfavorable," he said. "Steel can handle abuse, compressive loading. Fiberglass has a more predictable fatigue life. You can get just so many pumping cycles out of fiberglass rods, and that's fairly defined. Steel, depending on abuse and corrosion in the area, just might outlast fiberglass. I've seen steel rods last 30 to 40 years."

Don Bennett, operations manager and owner of Petroleum Technical Services Company in Midland, agrees that steel rods can sometimes be a better choice.

"If we have a pump stuck downhole," Bennett said, "we've been able to jar it loose with steel rods. Mechanical jarring is simply not possible with fiberglass. But fiberglass is much more useful with abnormally high fluid production than steel."

Please see **DEBATE/70EE**

GAS: Seeing new day in Permian Basin

(From 65EE)

on Wall Street have bought it too and are likely to keep gas futures prices high.

On the other side, natural gas demand has been increasing much more than the experts thought, primarily from fuel switching factories and utilities. And this increase in demand has occurred at the same time that we have been in a recession and industrial growth has been little or none. As the nation gets back on its feet, the use of natural gas is expected to explode.

Now, if FERC Order 636 does not get in the way. Next year should reveal whether natural gas is indeed the fuel of the future. The federal government's latest rulemaking is intended to make it easier for producers to get their product to the marketplace.

It is suppose to make pipelines more competitive in their transportation rates and it is suppose to

allow shippers the choice of which services they must pay for. It is also suppose to influence the creation of production area pooling points. But most importantly, it is supposed to make local distribution companies more aware of their gas buying risks, and as a result, shift some of the final gas cost bill back to the producing end of the pipeline.

Ten years ago, producers received about half of the total gas cost to the consumer, now they have seen their share of the pie drop to less than a third. If LDC's want to insure a reliable supply of gas on New Year's Eve when its 10 degrees outside, they are going to have to pay for it in advance or at a premium on demand without notice.

Gone are the days of utilities running the spot price of gas into the ground during moderate temperature months and relying upon the old Natural Gas Act to steal gas from their neighbors when it

gets cold. It is not surprising that these same utilities are filing lawsuits against our friends at the FERC on this issue, but it appears the federal courts are wise to this instance.

The future for natural gas production and sales looks promising, barring unnecessary and political meddling.

It is certain that prices are going to rise sharply in the short term, and will provide the impetus for producers to start drilling again. However, discovery of new reserves should keep prices from escalating to levels of the early eighties, as long as government doesn't panic first and re-impose price ceilings. Allowing the marketplace to work through the issues involved in Order 636 is the smartest thing, but this is something new to the industry and it remains to be seen what will transpire.

Robert Anderson is a natural gas consultant in Midland.

Firm finds niche in acquisition game

By Johnnie Montgomery

When Ronyld Wise began his petroleum listing service, PLS, Inc. of Midland in 1986, he personally signed every one of the 800 newsletters he sent out every Saturday afternoon.

After taking early retirement from an oilfield service company when times got tough in the 1980s, Wise took a trip around the world, then came home ready to take on the world — literally.

He started the service as a computer-aided oil and gas industry multiple listing exchange patterned after real estate's multiple listing service. He soon added a direct marketing service and a number of advertising, consulting, and custom-desk-top publishing services, with representatives in Midland, Houston, Dallas, Denver, and Bakersfield. In 1990 PLS opened up an office in Canada.

Wise says his work ethic hasn't changed, but that there is little similarity between his first efforts and his current output.

"I started the company in No-

vember of 1986. My first book took four months to put together. I put news in the front and listings in the back. It had 100 entries in it."

The Wise signature has shrunk to an abbreviated three-letter scribble during the intervening five years, but everything else has grown, both in size and volume. Now the service publishes a twice-monthly market list, a monthly overview of industry news, and a weekly acquisition list, in addition to its line of custom marketing packages.

Another member service is the PLS on-line data base wherein buyers and sellers can exchange information via modems and personal computers. Utilizing special on-line search software, members with the necessary electronic equipment can search out properties meeting strategic requirements such as location, size, type, price, etc. Access to the on-line service is included in PLS membership; however, there are additional per-minute charges based on time of day.

PLS provides members with list-

ings of available producing oil and gas properties, drilling deals, royalty interests, mineral rights, leases and farm-outs. For a small fee, members may list properties for sale. The listings contain a concise description and an identification code. Members seeing a property they're interested in may call PLS, give their membership ID and the listing code number, and receive the name, address, and telephone number of the seller. PLS keeps a log of the calls received about each property. All listings are guaranteed at least one response, or there is no charge for the ad.

"If you're trying to sell a \$200,000 property, and you don't get a call, we're not going to charge you \$25 to list it," Wise said.

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Firm's perforation tool gets attention

■ Developers hope their innovative perforation cleaning tool will make dramatic impression on industry.

By Ellen Hopkins

A few innovations in the oil and gas industry over the years, those truly labeled state-of-the-art, have had enough dramatic impact on the industry to stand out in history books.

The owner/designer of a new perforation cleaning tool is planning on his innovative technology having the same caliber impression as the rotary drilling rig and electric logs.

David Facticeau, owner of Downhole Fluidics, Inc., which is a subsidiary of Tree Savers, Inc., has developed a perforation cleaning tool that is cleaning up many wells' production rates. The Perf-Clean Tool is designed to maximize the production capability of any well at minimum cost to the operator.

The tool cleans a well's perforations by removing scale, paraffin, miscellaneous debris, and breaking up the "ceramic-like" liner created during perforating. It works on newly drilled wells, old wells, and any age in between. It works before, after, or along with acidizing or fracturing treatments.

"Our goal is to enhance produc-

tion in a perforated well by restoring the permeability and porosity of the formation to what it was before the well was drilled," Facticeau explained. "If we can clean up old perfs, we can clean up new ones. A ball-out on a new well just doesn't completely open the perforations."

Facticeau explained that the extremely high pressure, temperature and velocity levels reached during perforating create a compacted zone surrounding the perforation tunnel. This "ceramic-like" liner can completely seal off the tunnel from the producing formation.

He said the success rate of opening the entire zone of perforations has increased from the usual 40 to 70 percent achieved from fracturing and acidizing, to 100 percent with the Perf-Clean tool.

Facticeau also is owner of Tree Savers, Inc., a wellhead isolation tool specialist company preventing pressure, abrasion and corrosion damage to wellheads. He and his co-workers John Ridge, Mike Hyman and Tim Cobb, have named this subsidiary Downhole Fluidics, Inc. because the Perf-Clean tool is based on the technology of fluidics.

Founded by the U.S. Army in the early 1960s, fluidics technology is used in aircraft control systems, building controls and by NASA. An obvious advantage over electronics is that fluidic components have no moving parts.

The Perf-Clean tool is designed to maximize its shock wave action, which is really what cleans out the perforations. It also has no moving parts.

A positive displacement pump at the surface of the wellbore — the same one used for fracturing or acidizing — activates the flow of liquid down the tubing and into the tool. The tool is suspended in the casing. As fluid moves out of the tool it contacts the static fluid in the wellbore and creates shock waves, i.e. energy.

These shock waves enter a perforation and compress whatever plugging material is in the perforation tunnel. The shock wave is then reflected back disintegrating the debris in the perforation. The entire perf tunnel is open to the zone, which allows the formation to flow freely.

"Equipped with a fluidic switch, the Perf-Clean tool creates oscillating pressure waves as the fluid is pumped through the tool at 1-1/2 barrels per minute," Facticeau said. "At that rate the frequency of oscillation is 180 to 190 times per second."

"The pressure pulse generated is 1,000 to 1,500 psi over the hydrostatic pressure. The deeper the well — the more back pressure we can hold on it — the more effective the tool is," Facticeau said. "But it works correctly on shallow wells, and is equally successful on oil or gas wells."

"When a well is perforated,"

Facticeau said, "an explosion is created and the resulting compacted rubble zone around each perforation isn't necessarily removed with back flow."

Facticeau said the oscillating shock waves created by the Perf-Clean tool travel at approximately 4,700 feet per second. They subject the damaged area, i.e. plugging material, to compression and tension forces. This cyclical loading leads to material fatigue within the plugging materials and subsequent disintegration. The debris can then be removed through circulation, swabbing, bailing or putting the well back on production.

"Some operators will follow a perf job by surging with nitrogen and acid, but this gets expensive," he said. "So the Perf-Clean tool, using treated water as a fluid, will break up the compacted areas around the perfs in a cost effective way. It also saves time over surging."

The production of oil and gas from a formation also causes damage through the deposition of scales, paraffins and other materials at the formation face and in the perforation tunnel. Facticeau said the Perf-Clean tool is designed to clean up this near wellbore and perforation damage.

He has been issued two patents already and several more patents are pending on various tool parts. The company has plans to expand to the Rocky Mountains in the near future.

DEBATE: Both types have advantages

(From 68EE)

Bennett said he would not use fiberglass on any well pumping less fluid than pump capacity.

"If I'm pumping several hundred barrels a day, OK," said Bennett. "But if I'm moving 50 barrels a day, I would not use fiberglass except in a highly corrosive area."

Campbell said fiberglass rods are extremely effective in corrosive areas. He explained that produced fluid is a mixture of water, salt, oil, gas and air which together are very corrosive but do not affect the fiberglass material.

"Fiberglass rods are superior in corrosion resistance, lowering gearbox torque, adapting to existing equipment and for high fluid production," he said. Even though a one-inch fiberglass rod costs approximately 1-1/2 times the same size steel rod, producers are realizing the economic benefit of replacing steel rods with fiberglass.

"Another consideration is production resulting from CO₂ injection," said Campbell. "CO₂ plus water equals carbonic acid which is highly corrosive."

Fiberglass' ability to resist corrosion prompted its development in the 1940s by Owens Corning and its initial use in the electrical industry for insulating cable.

"Over the years, 14 different companies have tried to make fiberglass rods," said Campbell. "There are only a few now; it's a very difficult manufacturing process."

The process is called pultrusion, that is, pulling tiny fibers through a process that hardens them into a rod. The process begins with fiber roving purchased from Owens Corning and PPG. "We're one of the biggest users," said Campbell.

Rovings contain thousands of fibers and look very much like a spool of thread but on a grand scale. The roving is pulled through a process that saturates it with resin, heats it in a microwave, i.e. radio frequency oven, and pulls it through a die.

"The dies are four to six feet long and hollow," said Campbell. "The pultrusion process produces a high tensile strength rod that is as strong as steel."

"Due to the manufacturing process, the rods must be kept in tension during operation," said Campbell. "A steel endfitting is attached at each end of the rod. Otherwise the fibers would eventually break apart. The bottom section of rod string must be comprised of steel sucker rods. The weight of the steel sucker rod section keeps the fiberglass in tension during the pumping cycle. Even though the endfitting is made of steel, it's considerably less steel than a steel rod so there is less corrosion and weight."

Throughout the development of fiberglass rods a major difficulty has been attaching the endfitting to the rod. Fiberflex has designed its rods with a compression wedge system which, when injected with epoxy, creates a locking device between the rod and the steel endfitting.

"The rod body, epoxy and endfitting each have a different density," said Campbell. "We tried several wedge systems in the early years. Our research involved a software program called FEA, Finite Element Analysis, that models load. We input the different material properties and the program tells us where the different stress points are."



Petrochemical business

Storage tanks loom on the horizon at the Shell oil refinery in Pasadena, Texas. Petrochemical plants in the area employ some 30,000 people.

AP Laserphoto



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Council to push natural gas

■ A council of industry officials is looking to increase gas demand by 2.5 Tcf in the next five years through promotion of new markets.

By John Paul Pitts
Business/Oil editor

Having lost demand from policies of the '70s, many have said that the gas bubble was not a problem of too much gas, but too little demand. Now however, an industry-wide coalition is set to address the problem of demand.

Organized in late July, the Natural Gas Council seeks to increase natural gas demand by 2.5 Tcf over the next five years through new markets. One of the more interesting new markets is natural gas vehicles. The council says it expects to add 50,000 fleet vehicles or 10 Bcf of demand in the transportation sector.

The council is composed of the senior executive from each major segment of the natural gas industry — including producers, pipelines and distributors. The intent of the organization is to bring all segments of the industry together to "ensure that natural gas achieves its rightful role in the nation's energy mix."

Joining under the slogan "Working Together to Make Natural Gas the Fuel of Choice," the Natural Gas Council plans a number of public relations, government relations and educational programs to help it realize its ambitious goal of increasing U.S. gas demand by 2.5 Tcf by 1996.

Besides adding 10 Bcf of demand from NGVs, other plans include the addition of 1.5 Tcf of demand from oil-to-gas conversions; 1 Tcf in electrical generation; 20-30 Bcf in natural gas cooling technologies and 2-3 Bcf in electric to gas water heater conversions.

Chuck A. Jordan, chairman of the Natural Gas Council and vice president and general manager of Chevron U.S.A. Natural Gas, says the projections are realistic and cites a number of reasons in the natural gas industry that will assist the drive for demand. They include: an improved infrastructure with adequate storage, deregulation of wellhead prices, chang-

ing technology, a switch from regulations to market forces, open access to pipelines. He also lists environmental concerns, the Clean Air Act and clean-burning qualities of natural gas as other issues that also will be big elements in the natural gas marketing push.

"The legislative and regulatory effort to create a more competi-

tive market, and the resulting restructuring of the industry to make it more flexible and consumer-orientated are all behind us because they encourage greater use," Jordan said.

The Council is composed of 18 industry and association executives.

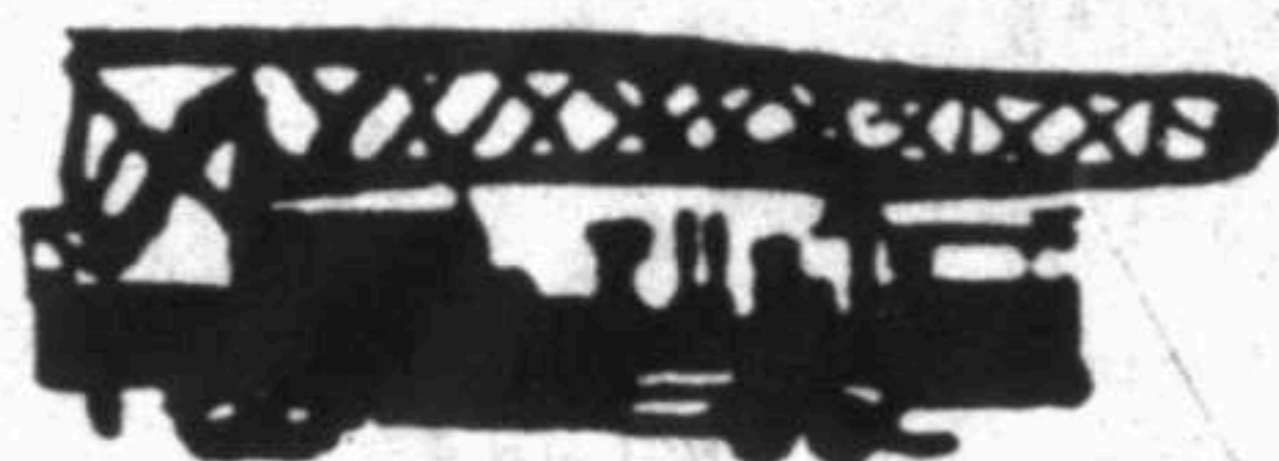


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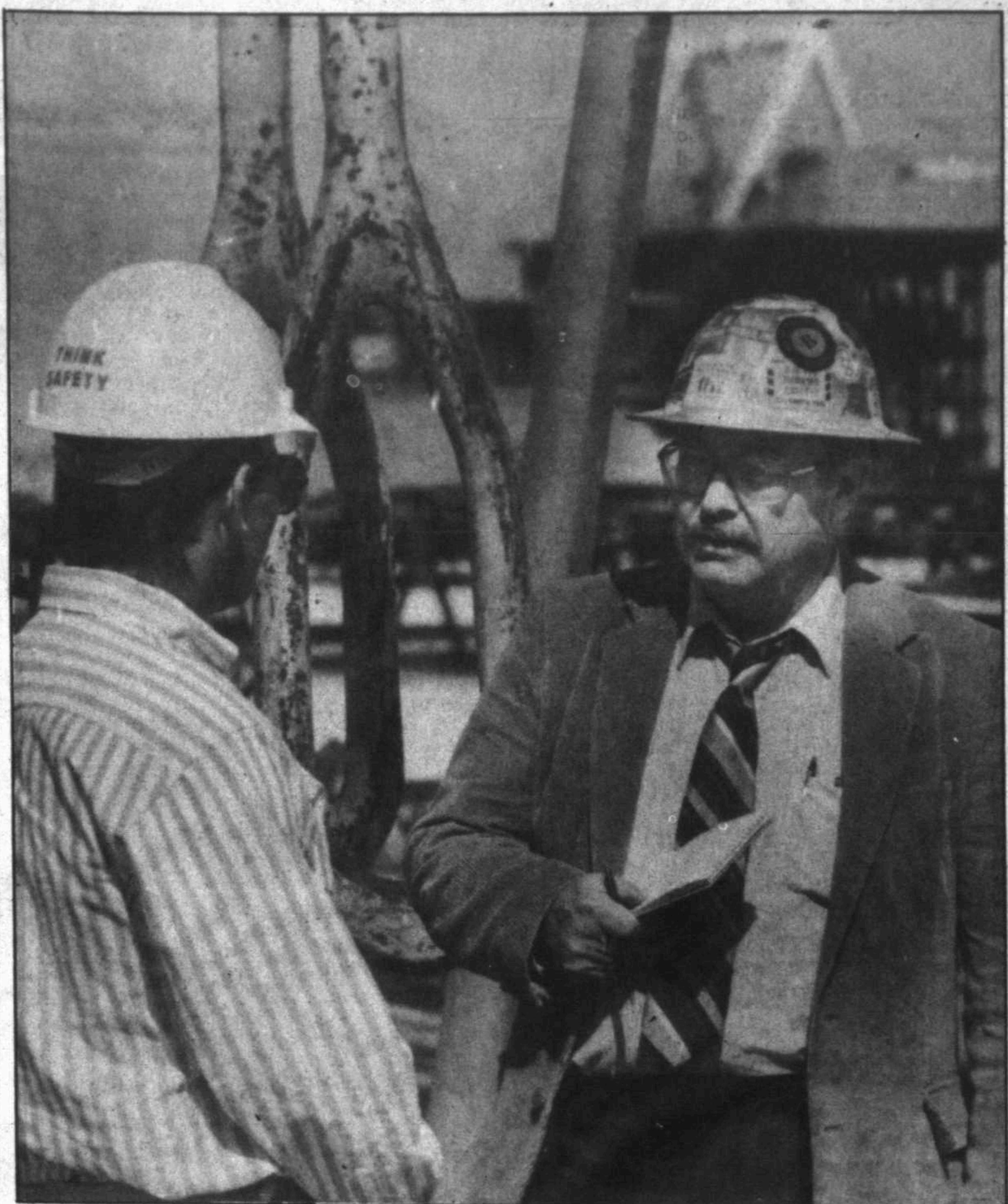
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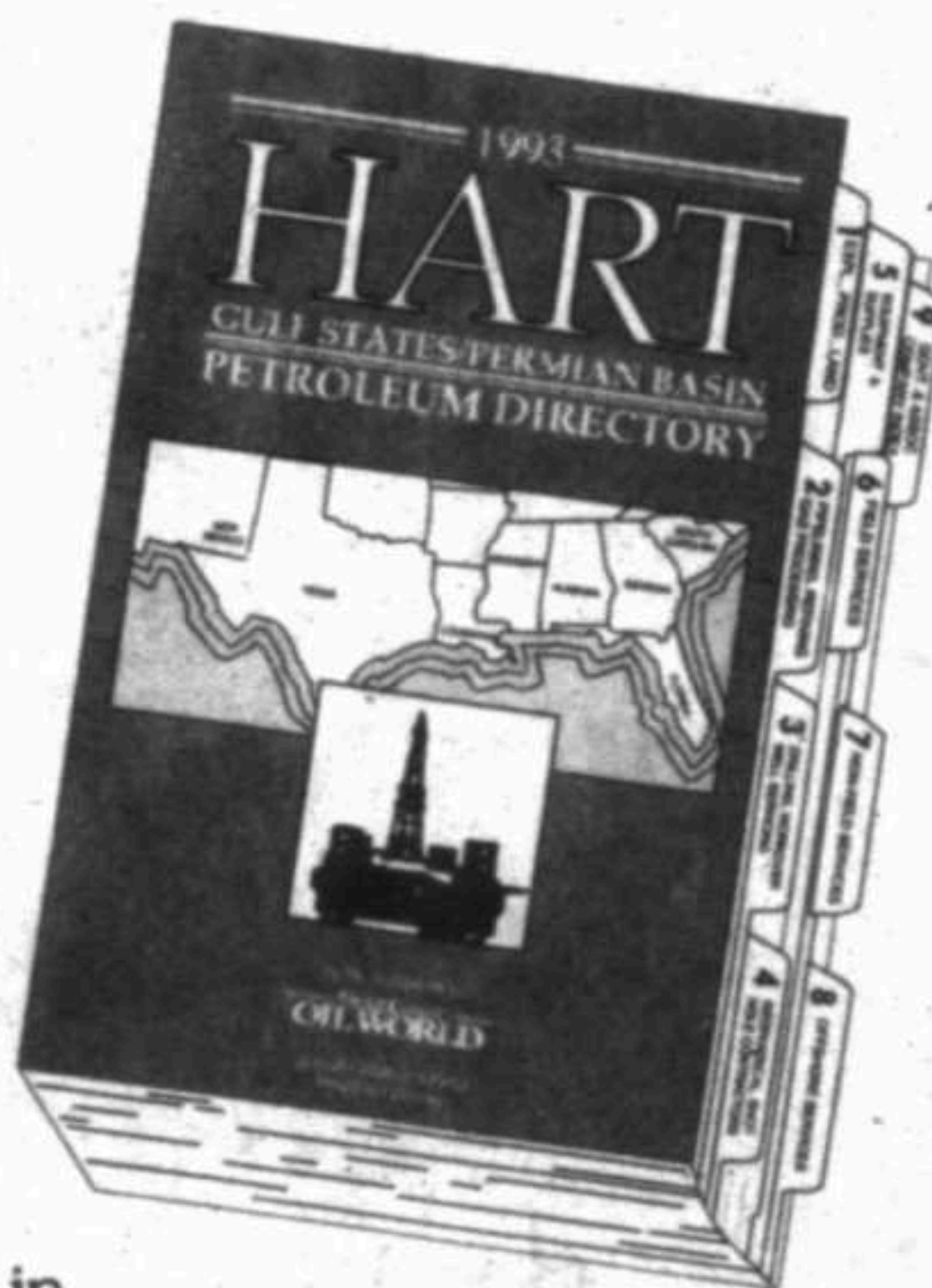
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Divestitures by majors become big business

By Ellen Hopkins

For various reasons, economic and otherwise, the major oil companies are divesting thousands of properties in which they hold an interest. Although their strategies and philosophies on what to sell and how to sell it may vary, divesting among the majors is big business.

Most of these properties are either marketed in a bid package format or sold at auction. Some properties are traded for similar value properties in a different geographical area. And some properties are sold to unsolicited parties.

Evaluations Manager Ron Milligan said Texaco's philosophy involves defining which properties are core and non-core.

"When we consider a property we ask 'Does this fit into our operations; does it fit our description of a core property?' Non-core properties are typically located on the fringes of our operations," Milligan said. "We regard them as detracting from our focused efforts of CO₂ floods, waterfloods, and good development drilling projects."

He described his properties as evenly split between oil and gas interests.

"The properties we would move to sell are packaged to make them attractive to the independents in the Permian Basin," he said. Milligan said Texaco has considered solicited bids only. "We're just focusing locally on companies with offices here, even though they may also have offices in Dallas or Houston."

"Our divestitures aren't of the scope that some of the majors have as far as the number of properties and size," Milligan said. "We operate in 42 counties, and maybe there will be only a half dozen counties we'll get out of all together. But those are the counties where Texaco now has only one or two properties. This is what we call 'on the fringe' and not core properties."

Milligan said these sales should in no way be construed as Texaco diminishing its presence in the Permian Basin. "Texaco still has a bright future in the Permian Basin," he said. "We've been pleased with sales and find a significant interest among the independents here."

Mike Kimmit, public affairs manager for Mobil in Dallas, said the company's divestiture considerations include properties that are geographically distant from

the majority, those that involve a lot of paperwork, and wells with low producing rates.

"Mobil began in 1986 to identify those properties it felt would be more valuable to independents," Kimmit said. "We are focusing on those smaller, non-capital intensive properties that are unlikely to receive additional development funding from Mobil's producing budget."

"Like many of the majors, the properties we've acquired over the years are scattered about. Some don't represent a large part of our production, but do take lots of administrative time," he said.

Kimmit said Mobil has looked hard at the wells producing 10 to 20 barrels per day.

"These are attractive to some independents who operate with a lower overhead," he said.

He said certain wells in close proximity to those of another major also are considered.

"It can be uneconomical to try and operate them as a stand alone entity, so these are selected for trade," Kimmit said. "Most often the scattered properties are packaged as a single unit and proposed to operators in the vicinity who would be the most likely purchasers because they can absorb the wells into their operations without a lot of additional cost."

"We also are looking for the right opportunities to sell interest in selected properties that are operated by other companies," Kimmit explained.

"More than 90 percent of our sales efforts involve bid packages but occasionally we have completed sales resulting from unsolicited inquiries," he said.

Bob Herrin, formerly of Chevron's Midland office, said at the time interviewed that Chevron's strategy has been to trim the number of properties but keep the same revenue. He referred to his company's divestitures as "exiting."

"The properties we want to exit are mainly those we designate as having a greater value to someone else than as income to us," Herrin explained. "In other words, they are not on our priority list because they don't fit our long-term strategy when we consider prices."

He said most properties are within 125 miles of Midland and the majority are probably oil but overall they are a fairly representative mixture of Chevron's

portfolio.

Herrin said Chevron has used bid packages, unsolicited offers and auctions to move these properties and he feels it is the property that seems to dictate how it will be exited.

"Some of the lesser value properties go to auction because it's the cleanest, simplest, easiest way to sell them," Herrin said. "We've also found trades successful, that is, trading an interest we have in a field another company operates, for interest they have in a field we operate. A trade allows both companies to get a better concentration of properties in their respective areas."

He explained, "Trading means you 'swap like kind.' It also means because you aren't selling outright and rebuying somewhere else that the tax consequences are reduced. We've been successful overall negotiating significant trades with other companies."

Chevron has also targeted the independents in town as the most likely buyers.

"We've seen a high degree of interest locally," Herrin said, "but we've also crossed boundaries. For example, we may trade a Chevron Permian Basin property for another company's interest in a Rocky Mountain property."

Marathon's Regional Manager Bob Kukla described the company divestiture philosophy as targeting properties that don't fit well with the operations Marathon considers are its strengths.

"Marathon has an organized disposition program specifically for the Permian Basin," he said.

Kukla explained that the consolidation of Texas Oil and Gas into Marathon led to additional properties being handled out of this region.

Kukla said Marathon has set up an internal evaluations group consisting of engineering, land, geological and accounting personnel with a dispositions and acquisitions manager heading up the group.

He said it doesn't always make sense to try to fit some properties into a package, so they might auction a property that is the only Marathon property in a county.

"We're also evaluating properties to purchase, but our primary effort is disposition," Kukla said. "We're looking at what makes sense for us. Marathon is strong in the Permian Basin, and we plan to be here."

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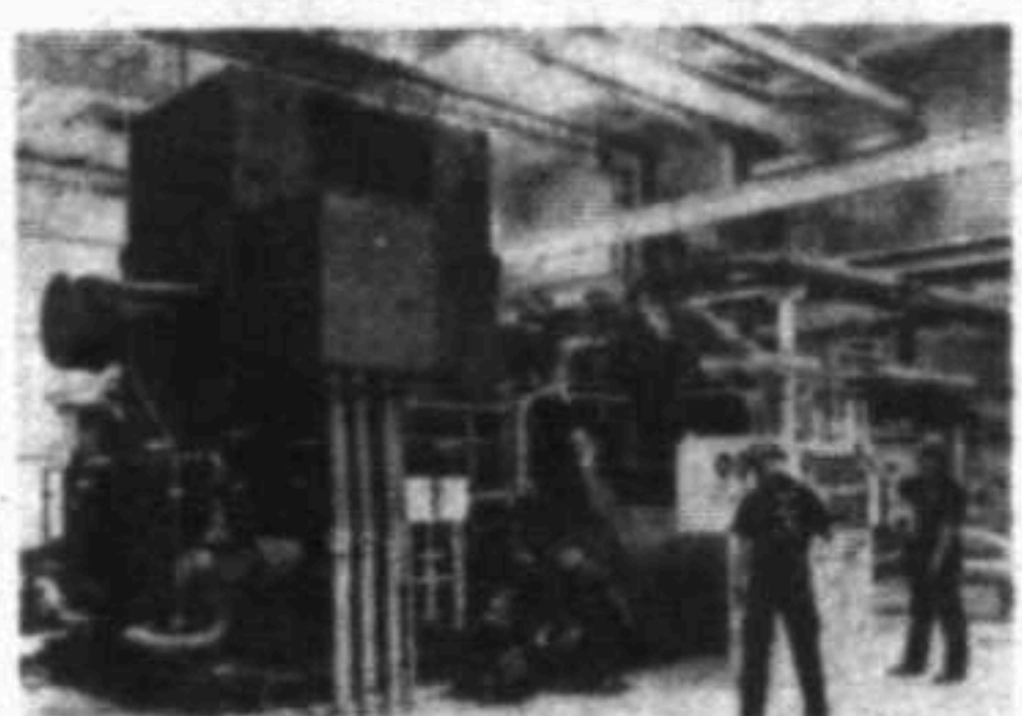
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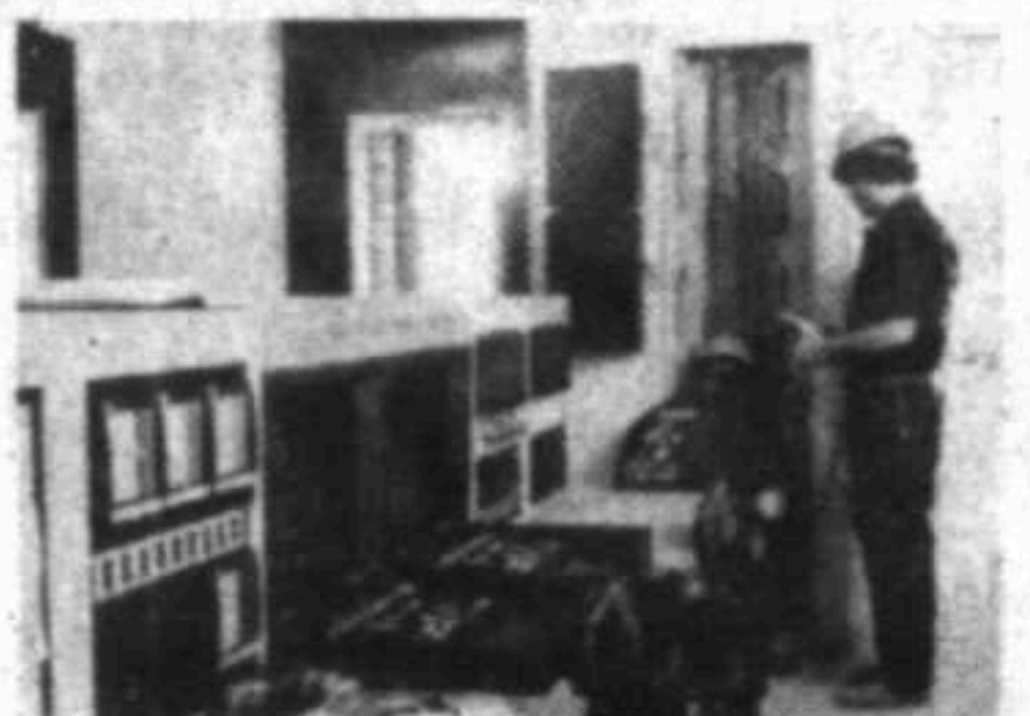
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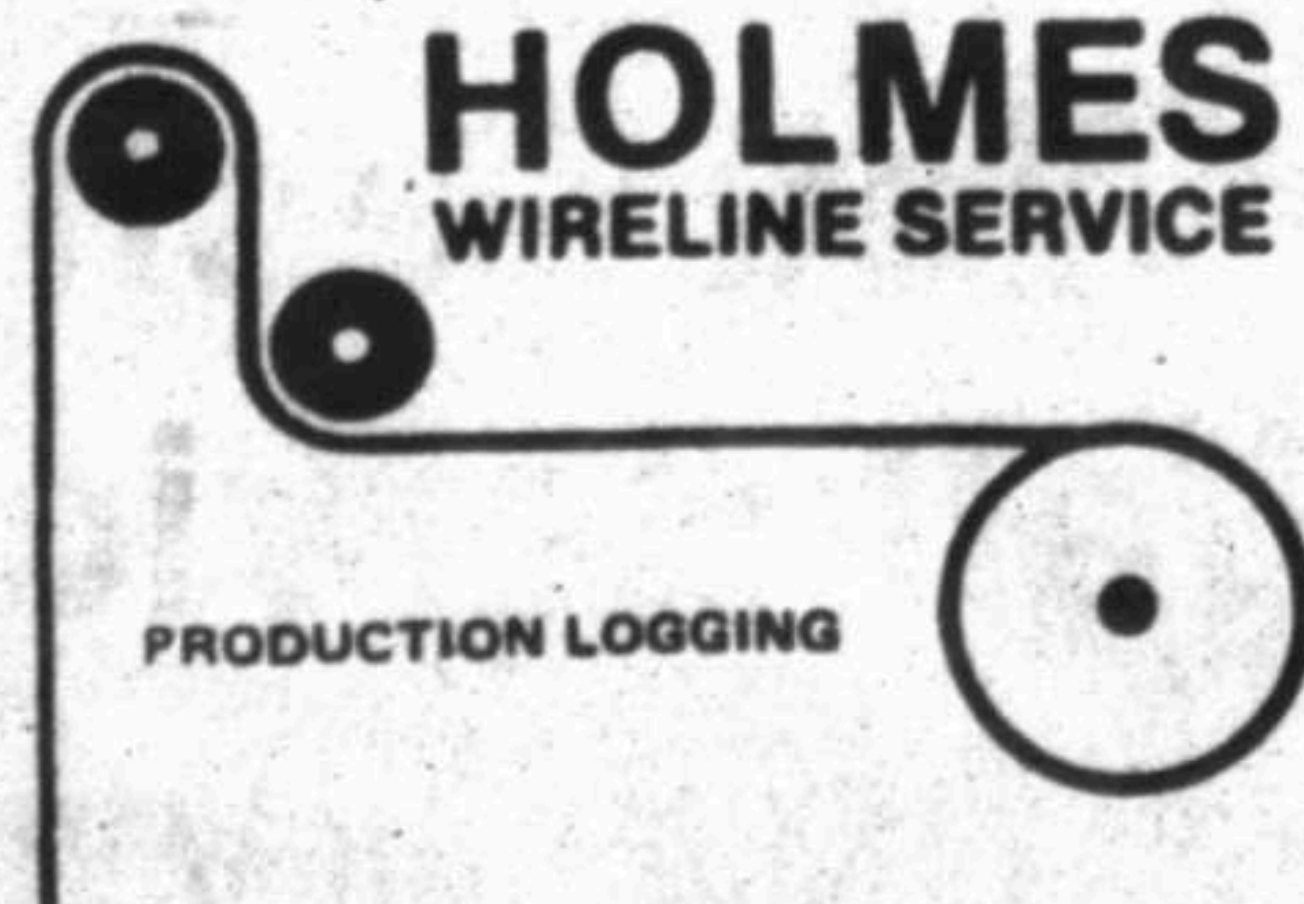
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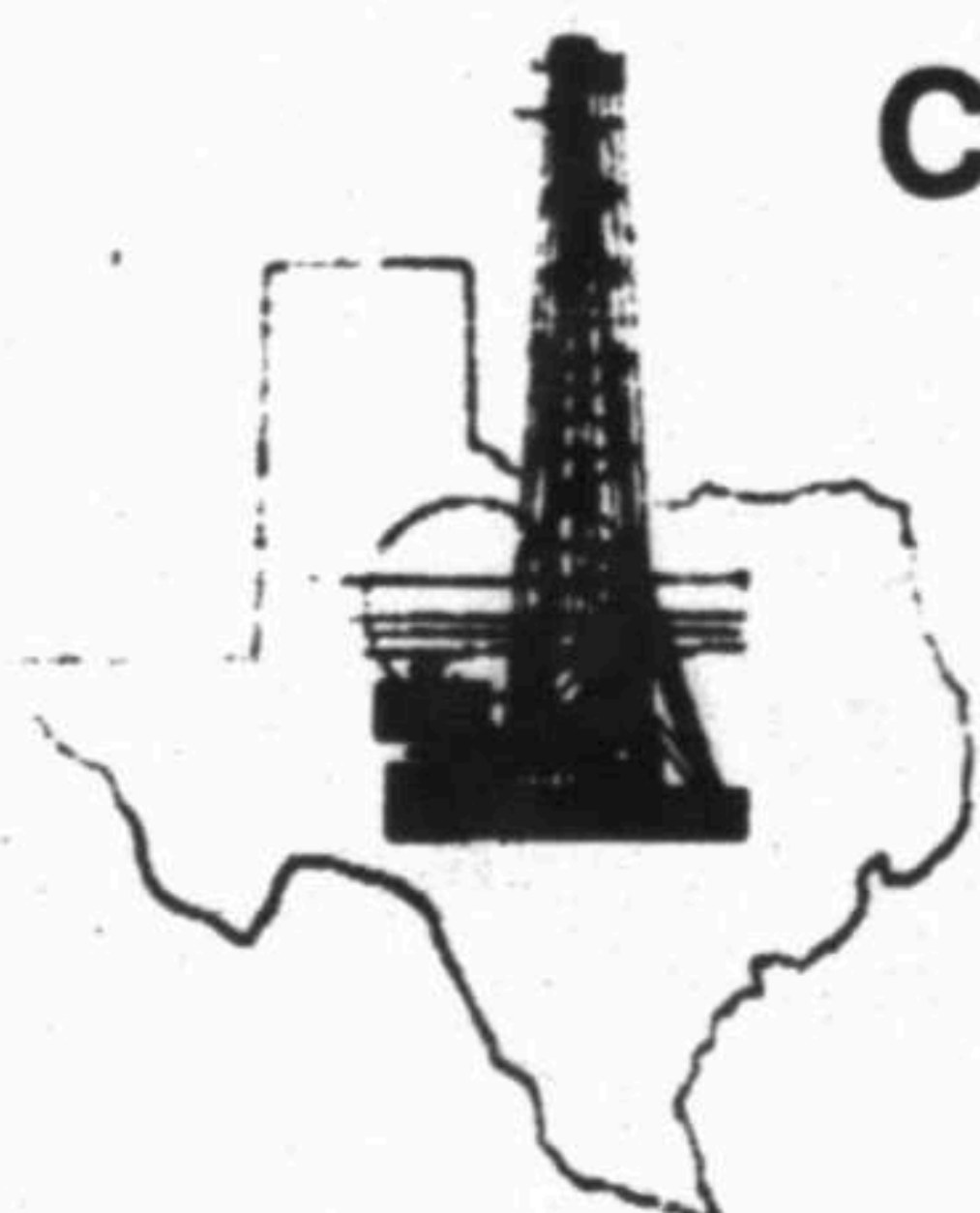
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Oil refiners worry about impact of clean air rules

■ Refiners are worrying about the impact of rules taking effect next month under the Clean Air Act of 1990.

N.Y. Times News Service

For years refiners have worried about how much they pay for the crude oil they buy, how much they can get for the products they sell and whether the difference between the two leaves them a profit. But their lives are about to become substantially more complicated, because of new laws that force changes in the composition of oil products.

The first of new rules under the Clean Air Act of 1990 takes effect next month on gasoline supplied in winter to nine of the metropolitan areas with the most polluted air.

More rules, still being drafted, are to follow. The issue for most refineries now is what recipe the

law will impose and whether the capital investment needed to make this gasoline is likely to be recouped through higher prices.

For some refineries, the answer is already a clear no. According to Kenneth T. Derr, the chairman and chief executive of the nation's largest refiner, Chevron Corp., the depression that hit the oil exploration and production business in the 1980s, when 250,000 jobs were lost, is about to hit the refining end.

"No question about it, the oil refinery is becoming an endangered species," he said in a speech Thursday to business leaders in Philadelphia.

New regulations, he said, will not only rearrange his industry but will also "stop it, shrink it, and ultimately banish it from American soil."

His company cut production at its refinery in Port Arthur, Texas, by one-third last year.

On the other hand, for survivors like Robert Hermes, president of Purvin Gertz, a Houston-based consulting firm, "It depends on who

you are," he said.

All companies are going to be hit with huge capital costs; some estimates run to \$50 billion for the industry in this decade. That would come, on average, to more than \$3,000 per barrel of daily refining capacity. For older refineries the cost will be still higher.

"If you're a weak company and cannot afford the capital required, it's a bad time," Hermes said. "If you're a strong company, it's a good time to be in it." The reason, he said, is that as refining capacity disappears, prices for refined products will rise.

But the initial effect of the new rules is the opposite; the supply of gasoline is growing. The reason is that the rules that take effect in November will require that fuel sold in the nine metropolitan areas — Hartford, New York, Baltimore, Philadelphia, Houston, Chicago, Milwaukee, Los Angeles and San Diego — have an oxygen content of 2.7 percent. More oxygen in the fuel means car engines will produce less carbon monoxide.

The most common way to meet the oxygen requirement is to add a fuel molecule called methyl tertiary butyl ether, commonly called MTBE. Others will add ethanol, or a related compound, ethyl tertiary butyl ether, or ETBE.

To reach 2.7 percent, the gasoline must be 15 percent MTBE by volume. The effect is as if a butcher were ordered to put sawdust in the sausage; the same amount of meat now yields 15 percent more product. So the refineries are faced with the prospect of oversupply or excess capacity.

John H. Lichtblau of the Petroleum Industry Research Foundation said that the nine cities specified in the Clean Air Act constituted nearly 25 percent of gasoline consumption. That implies a nationwide growth in wintertime production capacity of 3.75 percent, at a time when demand is depressed by economic conditions. The actual effect is somewhat smaller, because the oxygenate is only required in the winter and can be produced in the summer and stockpiled.

Still, supply is growing.

At Sanford C. Bernstein & Co., a stock brokerage firm, James F. Hickman, a research associate, said capacity was growing faster than demand and refining profit margins would be pushed down, even for the most advanced refineries. Adding oxygenates and making other changes now under discussion could add 25 cents to the cost of a gallon of gasoline, refiners say, although experience is that price increases, at least in the short term, do not relate to costs but to what the market will bear.

The oversupply could get worse, because the Clean Air Act gives the states the authority to "opt in," or voluntarily put themselves under the oxygenate rules. Lichtblau estimated that by the end of the decade, half to two-thirds of the supply would have to be oxygenated, implying still more growth. Opting in, Lichtblau said, is "politically correct, environmentally correct, saying that the strictest standards are the best ones for the population in my area."

State pollution officials put it

differently, saying that reformulation of gasoline is one of the most cost-effective ways to come into compliance, or stay in compliance, with air pollution standards.

When refineries start losing money, some will close. Others will be reluctant, however, because doing so incurs severance liabilities to personnel. Owners that close refineries may also incur environmental liabilities, because soil polluted over decades may then have to be cleaned up.

And there is no indication where the trend to tighter regulation will end.

"You will see no new capacity put in the United States," said J. Robinson West, president of Petroleum Finance Co., a consulting firm in Washington, "and certainly the marginal operations will be shaken out. The question is whether those facilities that are upgraded and survive will then operate at high margins or whether there will be increased regulations and they will never be profitable. There's absolutely nothing to say that this is the last round."

MEETINGS

Basin SPE section to discuss 'huff 'n' puff'

The Permian Basin section, Society of Petroleum Engineers, will meet Tuesday at Ranchland Hills Country Club beginning at 11:30 a.m.

Guest speaker will be Teresa Monger-McClure, who will speak on "The Feasibility of CO₂ and Natural Gas Huff 'N' Puff."

Her presentation will examine the feasibility of cyclic gas injection for the enhanced recovery of light and heavy oil. Field test, coreflood and numerical simulation data will be used to support the economic potential of using CO₂ and natural gas huff 'n' puff to recover waterflood residual oil.

Monger-McClure is manager of petroleum recovery technology at Marathon Oil's Petroleum Technology Center in Littleton, Colorado.

SPE group to host Marathon technology manager

The Trans-Pecos section, Society of Petroleum Engineers, will meet Thursday at the Odessa Country club beginning at 11:30 a.m.

Guest speaker will be Teresa Monger-McClure, manager of petroleum recovery technology at Marathon's Petroleum Technology Center in Littleton, Colorado. Her speech will be "Feasibility of CO₂ and Natural Gas Huff 'N' Puff."

Cost of the luncheon is \$14 per person.

SIPES speaker to discuss Russian oil cities

The Society of Independent Professional Earth Scientists (SIPES) will meet Wednesday at the Midland Country Club beginning at 11:30 a.m.

Guest speaker will be Ed Woodruff, an independent consultant, who will speak on "A Tale of Two Cities."

He notes that recent events in the former Soviet Union have brought major changes. Even before the political upheaval, he says, the oil and gas industry was in severe trouble.

He will present a travelogue, with slides, and compare two "company cities" in Siberia and the differences reflected by the management policies of the two individual oil and gas companies. Oil industry woes and problems will be discussed and the future of foreign investments in the Russian oil industry mentioned.

Purchasers to discuss small business growth

The National Association of Purchasing Managers of the Permian Basin will meet Tuesday at Texas Instruments beginning at 6 p.m.

Guest speakers include Karl Painter of the Small Business Development Center, who will discuss how well small business development is doing in the Permian Basin, and Katherine Austin of the SBDC Northwest Texas region, who will speak on the Texas Marketplace Bulletin Board.



Monger-McClure



Woodruff

Hunt buys Pacific Enterprises oil, gas assets

N.Y. Times News Service

LOS ANGELES — Pacific Enterprises officials say they are selling the firm's domestic oil and gas production assets to Hunt Oil Co. of Dallas for \$371 million.

Officials said that negotiations are continuing to sell the Los Angeles-based company's Calgary, Alberta-based Canadian oil and gas exploration and production unit.

Sale of the assets — expected to be completed by year's end — will conclude an unprofitable diversification undertaken by the firm, which is the parent of Southern California Gas Co.

Pacific Enterprises Chairman Willis B. Wood Jr. and executives from Hunt met Monday with employees of the Dallas-based domestic subsidiary to discuss the deal. The unit has about 300 employees and the sale will cost an undetermined number of jobs, Wood said.

"I think they got pretty close to fair market value for their producing properties. It will get a monkey off their backs," said John E. Olson, an analyst in the Houston office of Merrill Lynch Global Securities Research.

David Fleischer, an analyst at Prudential Securities Research in New York, said that the deal will make Pacific Enterprises a stronger company.

"Operationally, there is nothing wrong with the utility," he said

of Southern California Gas, the nation's largest natural gas distribution utility.

"A year from now (Pacific) is going to be a very different company. Wood has quickly admitted (to) problems and gotten them straightened out. This company is (just) the gas company again and the outlook for the business is quite good," Fleischer said.

Fleischer believes that Pacific Enterprises possibly could restore dividend payments at 60 cents per share in the second quarter of next year.

"I don't think they are going to overdo it," he said of restoring the dividend. "Wood is conservative and yet I think they need to pay more than a token dividend."

But Wood said it is too early to start talking about dividend payments. "We just have not come up with an estimate at this time," he said.

He plans to pare corporate debt, in part by staff reductions. Wood said that some jobs will be eliminated in Los Angeles but he does not yet know how many.

On Sept. 28, the company sold the Thrifty Corp. retailing unit to a Los Angeles investment group for \$275 million, receiving about \$50 million in cash and the remainder in tax breaks.

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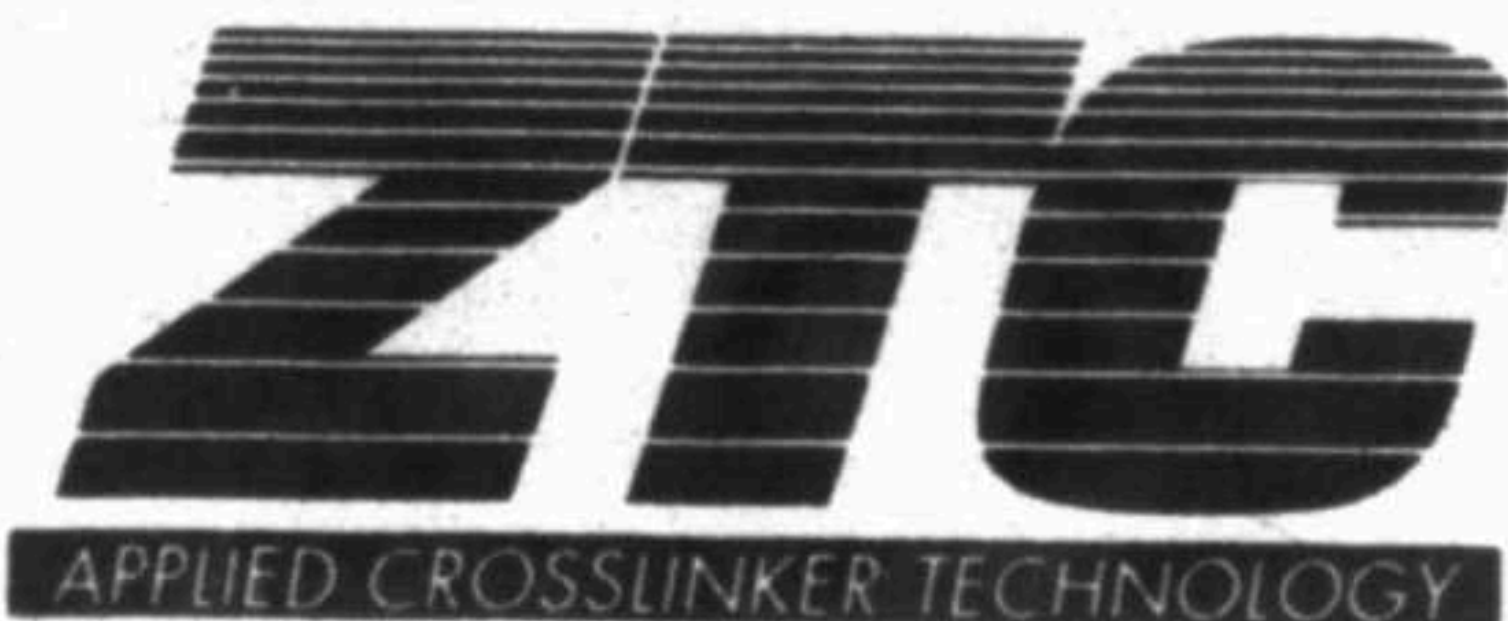
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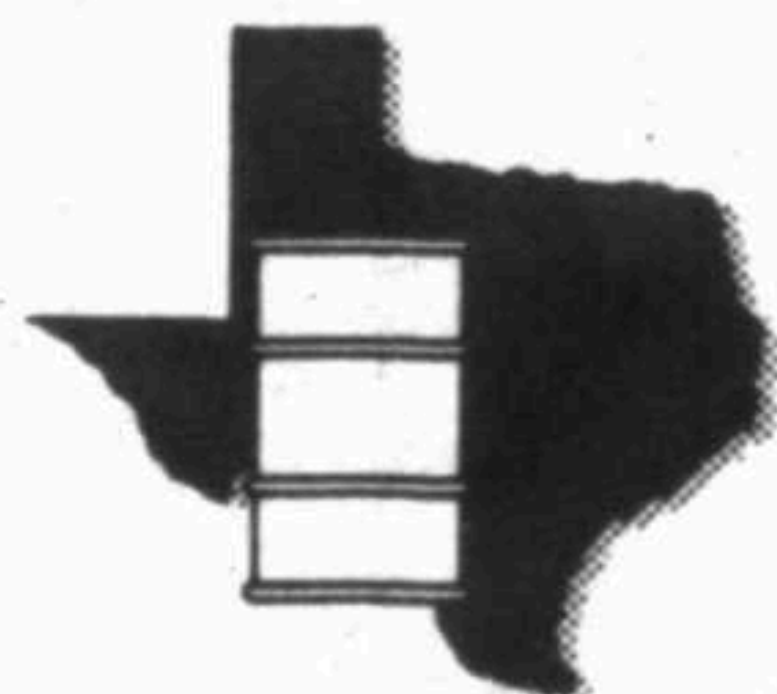
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BRIEFS

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AUSTIN — The Texas Railroad Commission has approved a lease in Runnels County for the construction of a new railroad line.

■ Valero

SAN ANTONIO — Valero Refining Co. has announced that it will acquire a 50 percent interest in the Valero Refining Co. of Texas, a subsidiary of Valero Refining Co. of Texas, a subsidiary of Valero Refining Co. of Texas.

■ ANR

HOUSTON — American Nuclear Resources Inc. has announced that it will acquire a 50 percent interest in the American Nuclear Resources Inc. of Texas, a subsidiary of American Nuclear Resources Inc. of Texas.

■ Union T

HOUSTON — Union Trust Co. has announced that it will acquire a 50 percent interest in the Union Trust Co. of Texas, a subsidiary of Union Trust Co. of Texas.

■ Tri-Ga

IRVING — Tri-Gas Inc. has announced that it will acquire a 50 percent interest in the Tri-Gas Inc. of Texas, a subsidiary of Tri-Gas Inc. of Texas.

■ Tejas

HOUSTON — Tejas Energy Co. has announced that it will acquire a 50 percent interest in the Tejas Energy Co. of Texas, a subsidiary of Tejas Energy Co. of Texas.

■ Tidew

NEW ORLEANS — Tidewater Energy Co. has announced that it will acquire a 50 percent interest in the Tidewater Energy Co. of Texas, a subsidiary of Tidewater Energy Co. of Texas.

Compiled from

BRIEFS

■ Railroad Commission fines Midland firm

AUSTIN — The Railroad Commission has fined Alhanco Energy Corp. of Midland \$7,000 for an unplugged well, for having unpermitted pits and for failing to dewater and backfill pits on the Robb lease in Runnels County.

■ Valero promotes in top management

SAN ANTONIO — Valero Energy Corp. has promoted two members of senior management to new positions. Ed Bennifer, formerly Executive Vice President and Chief Financial Officer, has been named President of the natural gas pipeline and natural gas liquids companies owned by Valero Natural Gas Partners, L.P., and will manage the partnership's operations from the company's Houston office. John Kruger, formerly Vice President of Corporate Tax, has been promoted to Corporate Controller.

■ ANR Pipeline to redeem stock

HOUSTON — ANR Pipeline Company, subsidiary of The Coast Corporation, has called for redemption on Oct. 31, 1992, of 100,000 shares of its Cumulative Preferred Stock \$2.12 series under sinking fund provisions for the series. There are 1,000,000 shares of the series currently outstanding.

■ Union Texas files registration statement

HOUSTON — Union Texas Petroleum Holdings, Inc. (NYSE:UTH) announced the filing of a registration statement with the Securities and Exchange Commission for all shares of Union Texas' common stock held by Allied-Signal Inc. Allied-Signal holds approximately 39% of Union Texas' common stock.

■ Tri-Gas buys welding supply company

IRVING — Tri-Gas Inc., an Irving-based producer of Industrial and Medical Gas and operator of a chain of cylinder gas and welding supply distributors has announced the acquisition of Industrial Welding Supply Company of Fort Worth and Sabine Welding Supply, Inc. of Longview. Industrial & Sabine have combined revenues of \$6 million. This acquisition brings the total number of Tri-Gas locations to 24.

■ Tejas Power promotes management

HOUSTON — Tejas Power Corp., (TPC), has announced the promotion of two officers and new responsibilities for a third. Larry W. Bickle, chairman of the board and president, has assumed the additional title of chief executive officer, and John A. Strom, formerly vice president, marketing, has been promoted to senior vice president, Storage and Business Development. John M. Hopper Jr., formerly vice president, long-term sales and business development, has assumed new responsibilities as vice president, marketing and regulatory affairs.

■ Tidewater declares quarterly dividend

NEW ORLEANS — Tidewater Inc. has declared a quarterly dividend of seven-and-one-half cents per share on Tidewater's 52,545,000 shares of common stock outstanding.

Compiled from Reporter-Telegram wire services.

IADC honors five at annual meeting

Staff report

HOUSTON — The International Association of Drilling Contractors honored five strong supporters with Distinguished Service and Emeritus Awards at the Association's 52nd Annual Meeting, held here recently.

Three men received IADC's Distinguished Service Award for their efforts to establish a drilling industry safety-case template in response to the Gullen Report issued by the Government of the United Kingdom in 1991: Jean Chevallier, vice president and general manager of Sedco Forex Drilling Services Ltd-North Sea Region, Aberdeen, Scotland; Bruce "Chip" Keener, operations manager of global marine drilling services, Badhoevedorp, Netherlands; and Michael L. Salter, chief executive of Smedvig Ltd., Aberdeen.

Two longtime IADC supporters were recognized with Emeritus Award: William G. "Bobby" Cox, formerly of Sedco Forex, and Earle C. Hellums, formerly of Atlantic Pacific Marine Corp.

"These drilling contractors surmounted widely different challenges in different times and different places," remarked IADC Chairman Thomas H. Bowersox of Zapata Off-Shore Co. "But they are alike in their dedication to the good of the drilling industry and their ingenuity in developing solu-

tions to common problems."

Chevallier joined the Schlumberger organization, of which Sedco Forex is the contract drilling subsidiary, in 1971. He served in several management positions in the UK and South America until 1984, when he was named vice president of engineering at Sedco Forex's Paris headquarters. He advanced to his present position in 1990.

Keener joined the Global Marine organization in the late 1970s. A graduate of the United States Naval Academy, he earned an MS in systems management engineering from the University of Southern California. Since 1982, he has held several management positions in the North Sea, mostly in Aberdeen.

Keener chaired the North Sea (UK) Chapter in 1991, the year following the issuance of the landmark Cullen Report. "The Cullen Agenda came as both a blessing and a curse," Keener observed, adding that "The framework that we negotiated will shape the course of upcoming legislation ... and I am proud to have been a part of the effort."

Salter is a mechanical engineering graduate from the University of Glasgow, Scotland. From 1980 to 1989 he worked for Bowden UK Drilling Ltd. in several positions, including vice president and general manager for all North Sea ac-

tivities. He joined Smedvig in January 1990.

Salter chaired the North Sea (UK) Chapter in 1990, the year the Cullen Report was published. The report, Salter noted, "led to the idea of a 'safety template' to enable contractors to more easily formulate safety cases as they related to MODUs." Salter also chairs the Executive Committee of the British Rig Owners Association (BROA).

Cox launched his career in the drilling industry in 1946, when he held various oil-field jobs with several drilling contractors in South Texas. In 1948 Cox joined Sedco, serving in numerous field and management positions until his retirement in 1987 — driller and toolpusher in Texas and Pakistan; operations manager in British Somalia, East Pakistan, Southern Iran and Algeria; offshore rig manager and operations manager in the UK and Holland (for Sea Drilling Netherlands, a joint venture of Sedco and a Dutch company); and operations manager for Sedco Forex, based in Aberdeen, and executive vice president headquartered in London.

Active in IADC affairs since 1970, Cox chaired IADC's North Sea (UK) Chapter in 1980-'81.

Hellums began his drilling-industry career in 1932, when he received his petroleum engineering degree from Texas A&M Universi-

ty. From 1955-74, Hellums was president and half-owner of Grace-Hellums Corp., a contract-drilling firm that specialized in deep wells in the inland waters of Louisiana and Texas. When the company was sold to Atlantic Pacific Marine, he became consultant to Management, a post he held until 1990. Hellums is now an independent petroleum consultant.

Hellums has contributed tremendous amounts of time and energy to IADC — as president (the equivalent of today's position of Chairman) in 1965 and as a member of the Contracts Committee for 39 years and Drilling Technology Committee for 45 years.

IADC is dedicated to enhancing the interests of oil-and-gas drilling contractors worldwide. Its membership comprises contract-drilling and well-servicing firms, oil-gas producing companies, manufacturers and providers of oil-field equipment and supplies. IADC's nearly 400 contract drilling and well servicing members own more than 3,600 land and offshore drilling and well-servicing units and drill the vast majority of the world's oil-and-gas and geothermal wells.

IADC's international headquarters are in Houston. It also has offices in Washington, London and the Netherlands.

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Welcome
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Advances bypass some techniques

■ The basic sucker-rod pumping method used today has been in place for 60 years.

By Ellen Hopkins

Despite the technological advances in oil industry production techniques over the last 100 years or more, some of the industry's "old standby" designs are just too reliable to replace.

One of these is the basic sucker-rod pumping method. It's simple, it's economical, and it works.

Before the 1890s, most sucker rods used by the oil industry were made of hickory and joined with iron fittings. Rods were round, square or octagonal depending on the type of fittings used. Improvements in sucker rods were mainly focused on ways of coupling the rods together rather than experimenting with different materials.

From 1866 to 1895 more than 20 patents were issued on various methods of rod connection. Designs ranged from box-and-pin threaded joints in round fittings to tubular couplings into which molten lead was poured to lock the wooden rod in place. The latter coupling featured internal longitudinal and transverse threads in a tube having the same diameter as the outside of the wooden rod.

The most commonly used version during the late 1800s consisted of either two or four straps through which pin and socket ends were riveted to the rod. An 1884 Oil Well catalog listed a "rivet catcher" among its sucker rod string paraphernalia.

But still the rods were made of wood and all had the same drawback — buoyancy. This notable disadvantage limited pumping speed and heavier, metal rods became a logical follow-up.

By 1881 a patent issued on a metal rod was closely followed by patents on a variety of other steel rods. Some steel rod designs were straight, and some were twisted for a guiding and scraping effect in the tubing.

Three years later iron rods were patented. Iron pipe was also experimented with for use as hollow sucker rods. Iron seemed the rod of the future. In a March 22, 1900, letter quoted in API's History of Petroleum Engineering, an operator stated: "The iron sucker rods are going to come into general use before long. I am not going to buy any more wooden sucker rods."

Although iron rods featured the popular "stub ends," which were box-and-pin fittings welded on to the rod ends, the weight of these rods was considered a problem in deeper wells.

Three separate designers in 1920, 1926 and again in 1940 proposed hollow tubular rods that were gas filled under pressure to prevent collapse. One innovative approach considered gas pressure graduated with depth to balance the hydrostatic head.

Many rod failures in the early 1920s were experienced because of increased well depth and heavy pumping. Operators turned to heat treating the rod ends as one solution. However, the point at which the heat treating stopped became a weak link in the rod and created a problem known as "ringworm" corrosion.

In 1927 API standards for sucker rods were established to facilitate interchangeable rods among manufacturers that were each using a different thread design.

As corrosion fatigue in more areas became evident, and replacing sucker-rod strings every 90 days was considered average, nickel or stainless steel platings were used as combative elements.

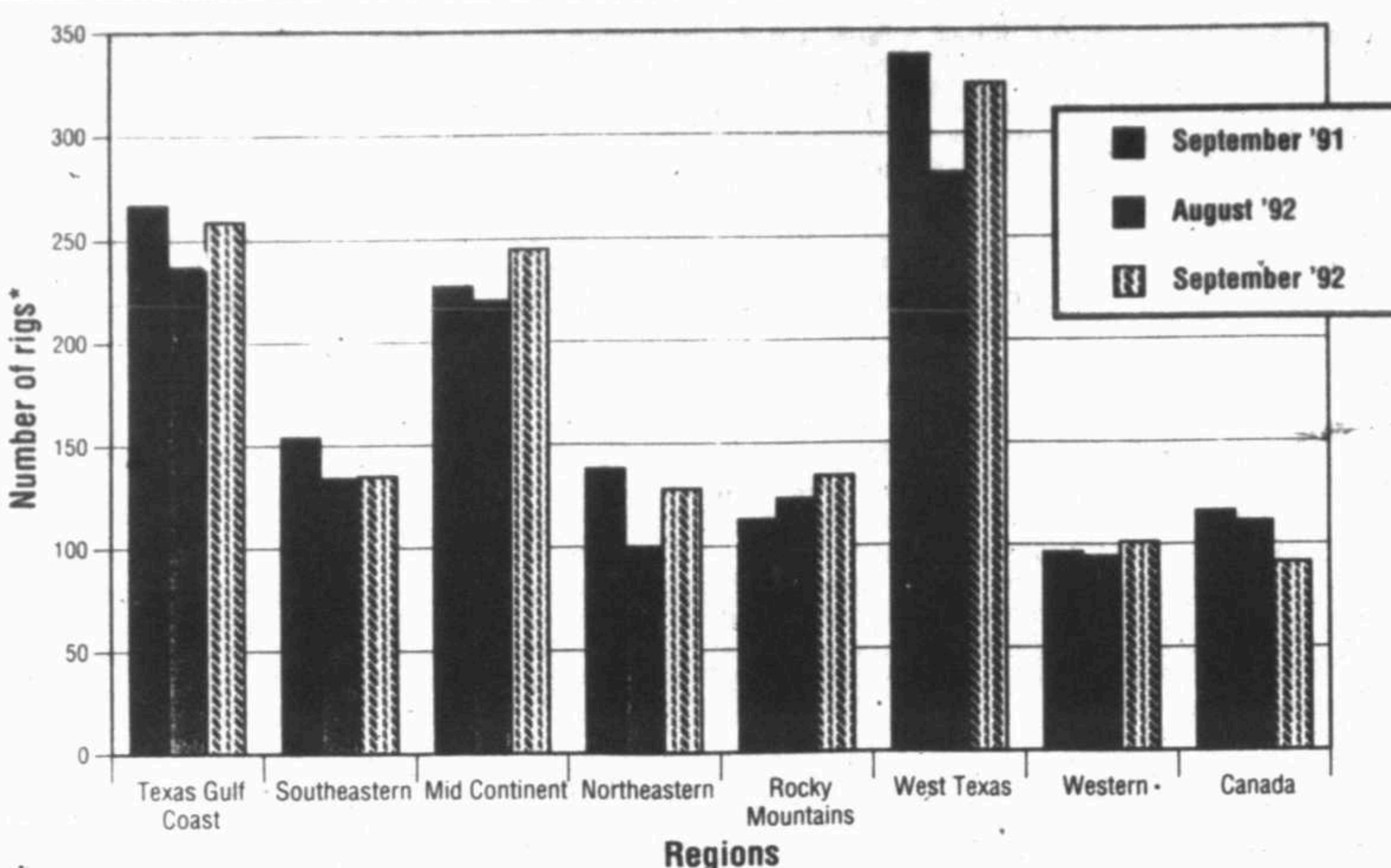
Nickel-alloy rods and nickel plated couplings were tried in wells under high loads. Other attempts included a stainless steel sleeve designed to be forged over the outside of the rod in hopes of resisting corrosion.

By 1930 the practice of heat treating, i.e. normalizing the entire rod, was tested to provide a uniform surface to minimize corrosion. A demand by producers in the Seminole field for greater sucker rod strength and reduced corrosion prompted improved rod steels, such as the low-alloy manganese, and increased rod sizes.

Along with material improvements in sucker rods, numerous rod attachments were designed to scrape paraffin from tubing. Rod guides were fashioned from metal, rigid plastic or elastic oil-resistant rubber.

Other innovations included rod catchers — used to expand and grip the tubing in case a rod broke — and swivel joints to prevent rods from unscrewing.

By the mid 1930s the quality of sucker rods had progressed to withstand polished rod loads up to 40,000 pounds and speeds of 40 to 45 54-inch strokes per minute. In the '40s fiberglass was developed by Owens Corning, but it wasn't until the 1970s that it was used in sucker-rod construction.



Workover rig count

According to Baker Oil Tools, the total U.S. rig count in September was 1,326 rigs, up 12 percent from 1,189 rigs in August and down 1 percent from 1,333 rigs in September 1991. In West Texas, the rig count was 324, up 15 percent from 281 rigs in August but down 4 percent from 338 rigs a year ago.

Nabla field tests new well monitor control

By Joe Dominey

Field testing continues on Midland-based Nabla Corporation's sophisticated automatic adjustable speed (ASD) control coupled with a Nabla well monitor.

It will be a while before the as yet unnamed device will be on the market, explained company president Dr. Sam S. Gibbs.

"We're still revising the boards and continue to work with Amoco on our field testing," Gibbs said.

Another Midland company that had been involved in the initial product development has dropped out and Nabla is flying solo on research and development.

The device makes automatic decisions based on what conditions it monitors at the downhole pump, taking the guess-work out of pump-off rates.

Gibbs pointed out that in ordinary pump-off control the digital electronic device monitoring the well simply shuts the well off completely when it is no longer filling. When fluid comes in at a reasonable rate, the control starts the well up again.

Nabla developed a downhole pump-off controller that would sense the productivity of the well and continually send a signal to the ASD unit which, in turn, varies the rate of pumping.

Using a fast running pump card algorithm, the unit controls an eddy current drive motor, made by Eaton, which has the ability to vary speed of operation. The monitor determines how much oil and water is going through the downhole pump, and signals the ASD motor either to pump slower or faster.

Wells can be controlled to pump slightly faster than the fluid coming in, to ensure maximum recovery. This also avoids fluid pound, the mechanical shock that occurs when the pump has too little fluid

coming in.

An ASD field test unit is installed on an Amoco well at Midland Farms, about 20 miles from Nabla's headquarters.

Stripper Well Control:

Another product under development is a low-cost pump-off controller for stripper wells. The marketing goal is to provide an economical unit for nearly half a million stripper wells in the U.S.

"In 1987 it took roughly 450,000 of those stripper wells to produce 1.25 million barrels per day. It took only about 600 Prudhoe Bay wells to produce about 1.6 million barrels of oil per day. The vast majority of wells in the United States are what might be called stripper wells, low economic producers, not worth very much, but you take them all together, and you've got 1.25 million barrels of oil per day, and that's a lot of production," Gibbs said.

Nabla tackled the challenge by stripping all the extras from its well monitor and pricing it at about half the cost of a more sophisticated version. The inexpensive well monitor also can display a malfunction light if something is wrong, alerting the pumper when he checks the well.

"In the U.S. we're trying as mightily as we can to find ways to keep these low volume wells economic. Therein lies the challenge, and to remain viable as an industry. The independents are going to be leading the way. The majors are in full flight overseas," he said.

Horizontal Drilling:

At the same time Nabla has developed a method for designing intensely deviated wells, including horizontal wells. The friction coefficients of deviated wells are far different than in conventional vertical wells. Nabla has refined

its software programs and developed a design method that applies to deviated, or horizontal, drilling.

"Up to this time there has not been a method for designing a rod-pumping installation for intensely deviated wells. There's a need to drill deviated wells around National parks, or any area where there's limited surface access, on the edge of a lake or of some protected area," he said.

Gibbs addressed the engineering challenges and mathematical models in successfully drilling deviated wells in the July 1992 JPT (Journal of Petroleum Technology) in his article entitled "Design and Diagnosis of Deviated Rod-Pumped Wells."

Well Monitoring:

Oil operators are now routinely using radio controlled monitors to

watch their wells rather than relying on pumpers exclusively in turning on or shutting off their wells.

Nabla recently has formulated a much simplified mathematical algorithm that can be installed in the well monitor. This enables the monitor to calculate a downhole card with each stroke of the pumping unit. Thus, it can be determined whether the pump needs to be turned off because it's not filling.

Nabla Corporation began as a petroleum technical services firm specializing in on-site well analysis.

It has since diversified into technical training, well analysis, manufacture of specialized products such as pump-off controls, rod

Please see **TESTS/79EE**



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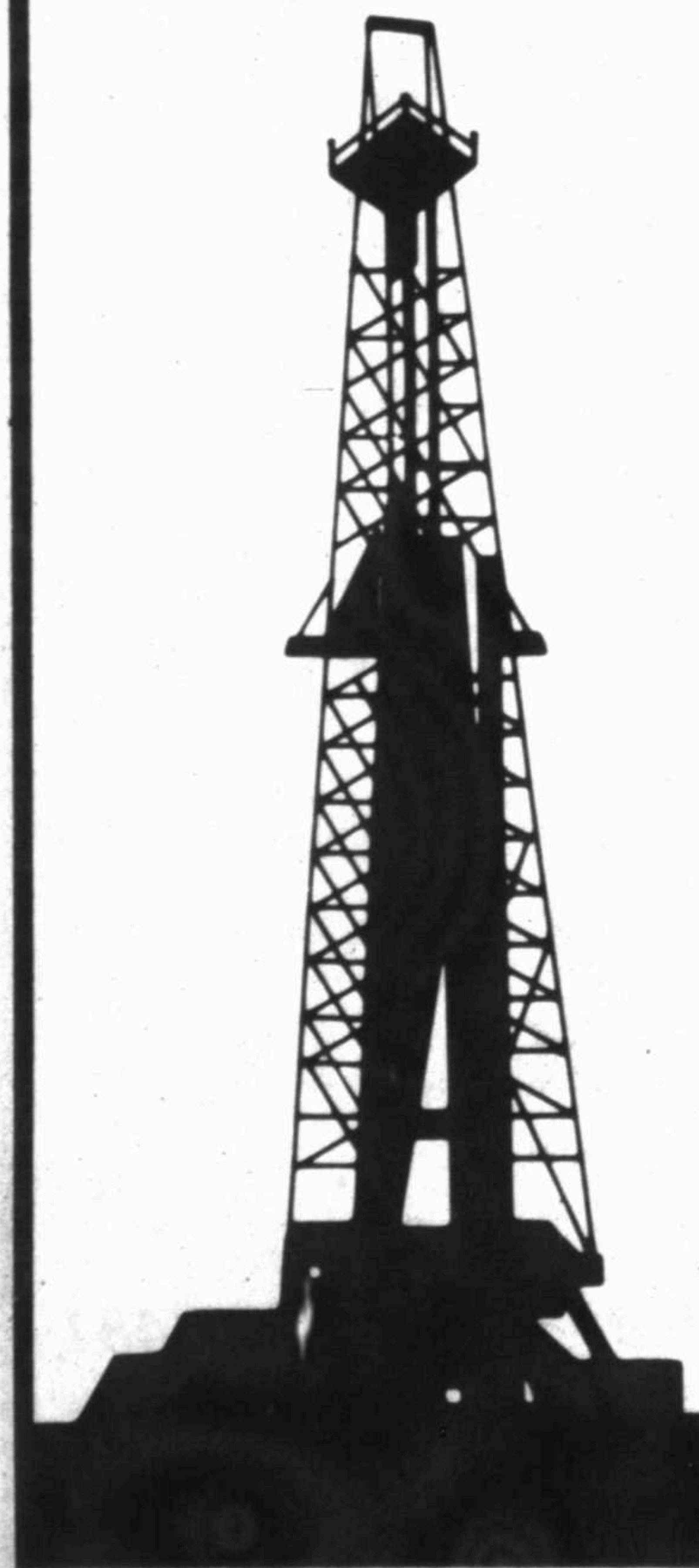
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Basin oil-field manufacturers cope with changed markets

By Mella McEwen
Staff writer

As the oil and gas boom of the 1970s began to bust in the 1980s, the survival skills of Permian Basin-based oil manufacturing companies were tested.

Oil-field manufacturing has been a staple of the Permian Basin since production began in the Basin, a natural development considering the Basin is the nation's largest producing province.

Today, however, manufacturers are being forced to turn their sites away from the Permian Basin and toward the international markets, according to visits with several area manufacturers, all of whom report sales efforts in other countries.

Russia and China appear to be, at this time, dominant markets for local companies.

Fiberflex, for example, a manufacturer of fiberglass rods, is establishing a plant in China to manufacture fiberglass rods for the Chinese National Oil Co.

In addition to its activities in China, Fiberflex has established markets in Mexico, Canada, France and South America and also is eyeing other areas of the Pacific Rim.

Highland Pump, which opened

its Rotaflex Pump manufacturing facility in Odessa last year, already has established markets in Venezuela and Colombia and is planning to ship units to both China and Russia.

"We have recently consummated a joint venture with China to manufacture units in China for Chinese use," said Jerry Watson, vice president of engineering with Rotaflex.

Like the others, Permian Tank, a storage tank manufacturer, also is developing overseas markets and is building production equipment for both China and Russia.

Establishing overseas markets does have its hurdles, as two Basin companies have found.

One, Parker Technologies, is part of Parker Drilling, which last year established the Russian venture White Nights. And Partech, with a shop between Midland and Odessa, was kept busy renovating rigs to be shipped overseas, specifically winterizing rigs to be sent to Siberia.

However, today, all White Night rigs are stacked, and all but one employee pulled out of Siberia.

This slowdown has caused Partech to cut its work force and look for non-oil-field related work, according to David Holland, administrative manager. But he said he

hopes the slowdown will be temporary as the overseas market picks up again.

Among the obstacles Dick Sivals, who founded Sivals Inc. in 1947, has encountered in trying to open overseas markets are tariffs, competition from native businesses and the distance between his plant and the customers.

Sivals, who manufactures steel pressure vessels and tanks for the oil and gas industry, has sold in South America and the Middle East.

And while he said he believes the oil patch must go international to survive, he said the move requires both caution and patience.

Sivals Inc. has been in the Permian Basin since 1947 and company president C.R. Sivals said he has seen many ups and downs in the Permian Basin.

"Getting to those markets is tough. It's a long way to where the customer is, and they take a long time to get a project together, two to three years as opposed to maybe two to three weeks here," he said.

And he is frustrated with our own government. "I hope Washington gets the message to work on trade policies and not concentrate on automobiles. There are other products we can export."

While Basin manufacturers are trying to open oil and gas markets overseas, they also are trying to expand their business domestically into non-oil and gas markets.

Mike Banas, marketing director with Permian Tanks, credits diversification with helping his company.

"Getting into fiberglass fabrication has helped our company diversify even more," he said.

In addition to making oil-field storage tanks, Permian Tanks is expanding into markets such as municipalities, water systems, food processing, pulp and paper, field erected steel tanks and the chemical and petrochemical industries.

The environment is becoming an important market, one Hy-Bon Engineering hopes to exploit.

The company manufactures gas vapor recovery units and was established in the Permian Basin in 1952.

In addition to seeking international markets, Hy-Bon is diversifying into such environmentally-related areas as making units to

capture gas vapors off city landfills and making methane digesters for food processing plants and municipal sewage systems.

In addition, a subsidiary, CNG Services, designs and builds compressed natural gas refueling stations to help spur the alternative fuel market.

Fiberflex is expanding into new fields such as fiberglass rods for electrical transmission and distribution.

While not looking at non-oil related markets, Rotaflex is moving to expand its model line and its production capacity.

The company manufactures the Rotaflex 1200, the largest capacity pumping unit in the world with a 60,000 peak polish rod load and 306-inch stroke.

Currently there are three models, the 900, 1100 and 1200, and Rotaflex is working to expand the line downward.

The company also plans to expand its production capacity from 10 to 12 units per month to 15 to 18 units per month.

Dr. Jerry Jones, president of the

Midland Business Center, says that the years of experience Midlanders have had in the oil patch helps them design, manufacture and adapt products to the rapid changes in the oil-field economy.

He added that the trend toward increasing involvement by independents is making Midland a world center for oil-field entrepreneurs, with both domestic and international manufacturing possibilities. He sees growth in international markets as more significant, however, and urged Midlanders to consider those possibilities.

He has a piece of advice for Basin manufacturers trying to keep their businesses successful.

"I would encourage them to look around this country at groups that have been successful, small groups and independents, in agriculture particularly," he said. "Those that succeeded were the ones willing to work and pull together for the common good. One big missing link I see in this area is the need for a stronger cooperative effort among those involved."

TESTS: Firm eyes horizontal wells too

(From 78EE)

pump dynamometers, and technical consulting.

"There are other companies that do bits and pieces of what we do, such as perform well analysis, build equipment, teach school, or offer software, but I don't guess there's another company that does it all," Gibbs observed.

In 1960 Gibbs, then a Shell Oil Company engineer, refined a system using a computer and mathematics to calculate what was happening at the bottom of the well. The resulting display is called a downhole dynamometer card.

He compared the dynamometer card to the cardiologist's electrocardiogram, in which a surface measurement on the skin reveal the condition of the heart.

When Gibbs and fellow Shell engineer Ken B. Nolan started Nabla, they bought what was then the smallest mini computer that Hewlett Packard manufactured and in-

stalled it in a truck.

The same diagnostic equipment and computer power that required an 8,000 pound truck 20 years ago now conveniently fits in a hand-carried metal suitcase. Most analysis is done on location instead of being trucked back to headquarters for processing.

The company's proprietary wave equation software provides simulation and diagnostic analysis of rod pumping systems. Some of this software facilitates either the initial design of pumping installations or redesign for optimization to increase production, decrease lifting costs, or solve mechanical problems.

Technical training is offered in rod pumping, electric submersible pumping, subsurface hydraulic pumping, computer analysis of rod pumped wells, and principles of well weighing.

Gibbs described the oil industry as being in state of turmoil, with

major selling secondary properties to independents who, in turn, are so busy evaluating prospective acquisitions that they have little time to attend to production they already have. He hopes it's a phase that will pass soon.

Meanwhile, Nabla is developing business in international markets, looking to Canada, Indonesia, Egypt and China for new sales, and has been involved for some time in North America, South America and Europe.

"There's a future for companies like Nabla," Gibbs said. "All the wells in the world eventually are headed for artificial lift. Right now the vast majority of production is coming from wells that flow naturally. You know, the Saudi Mid-East wells don't require any sort of artificial lift. But decades from now, they will. So after old Dr. Gibbs is dead and gone somebody's going to be applying these methods."

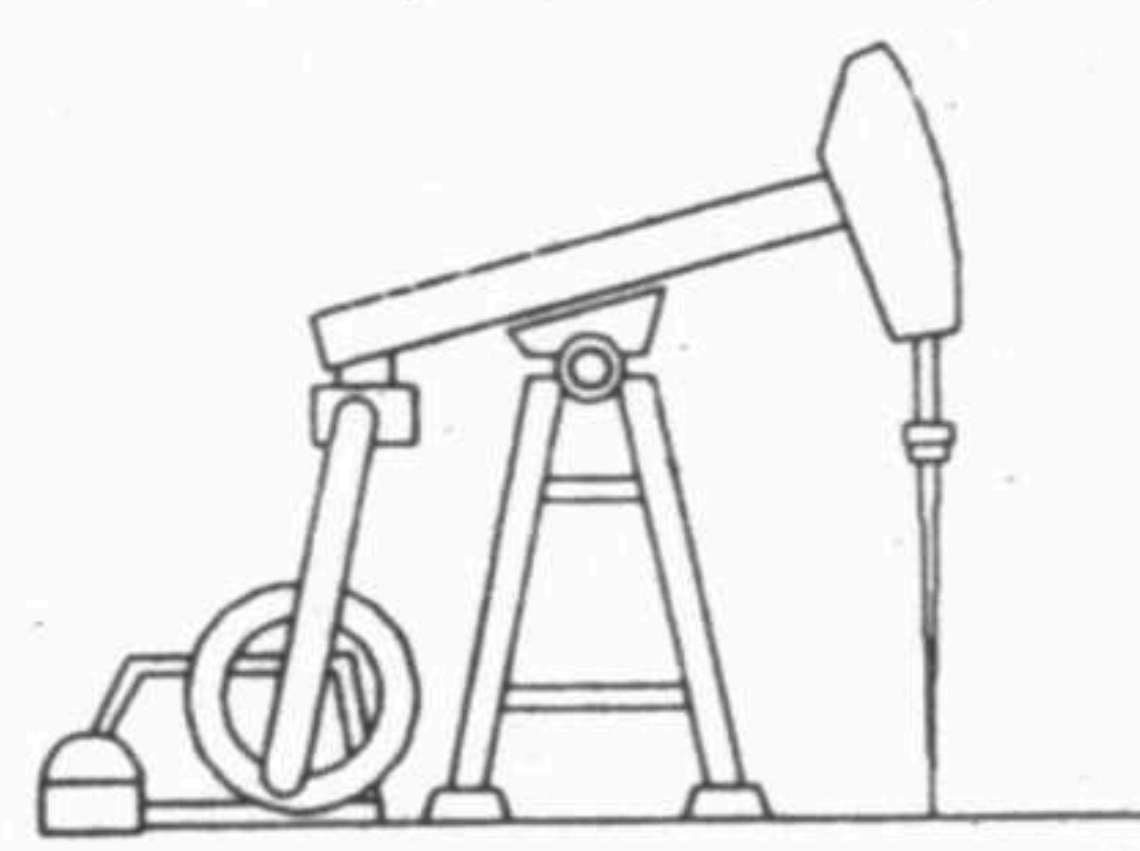
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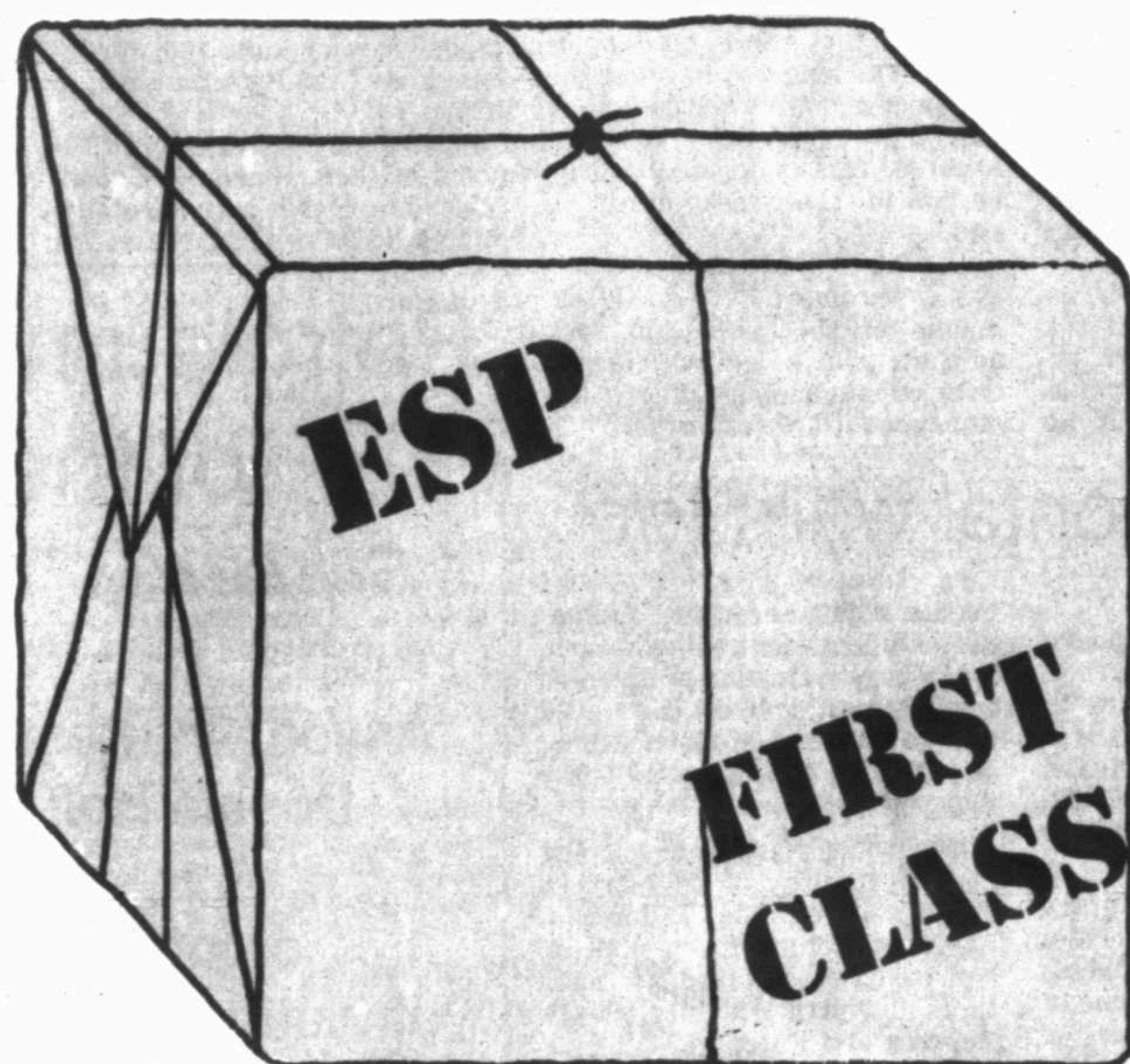
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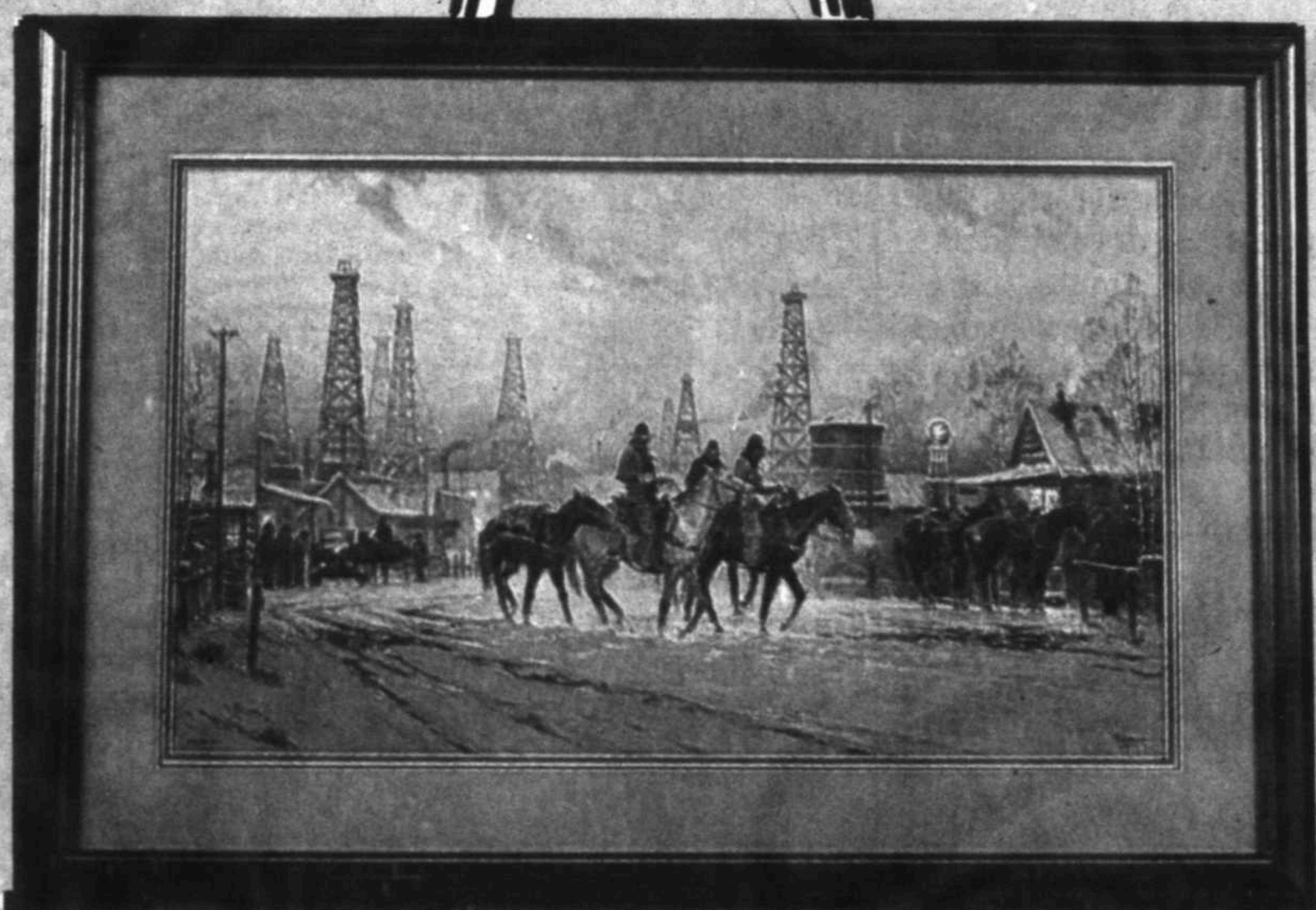
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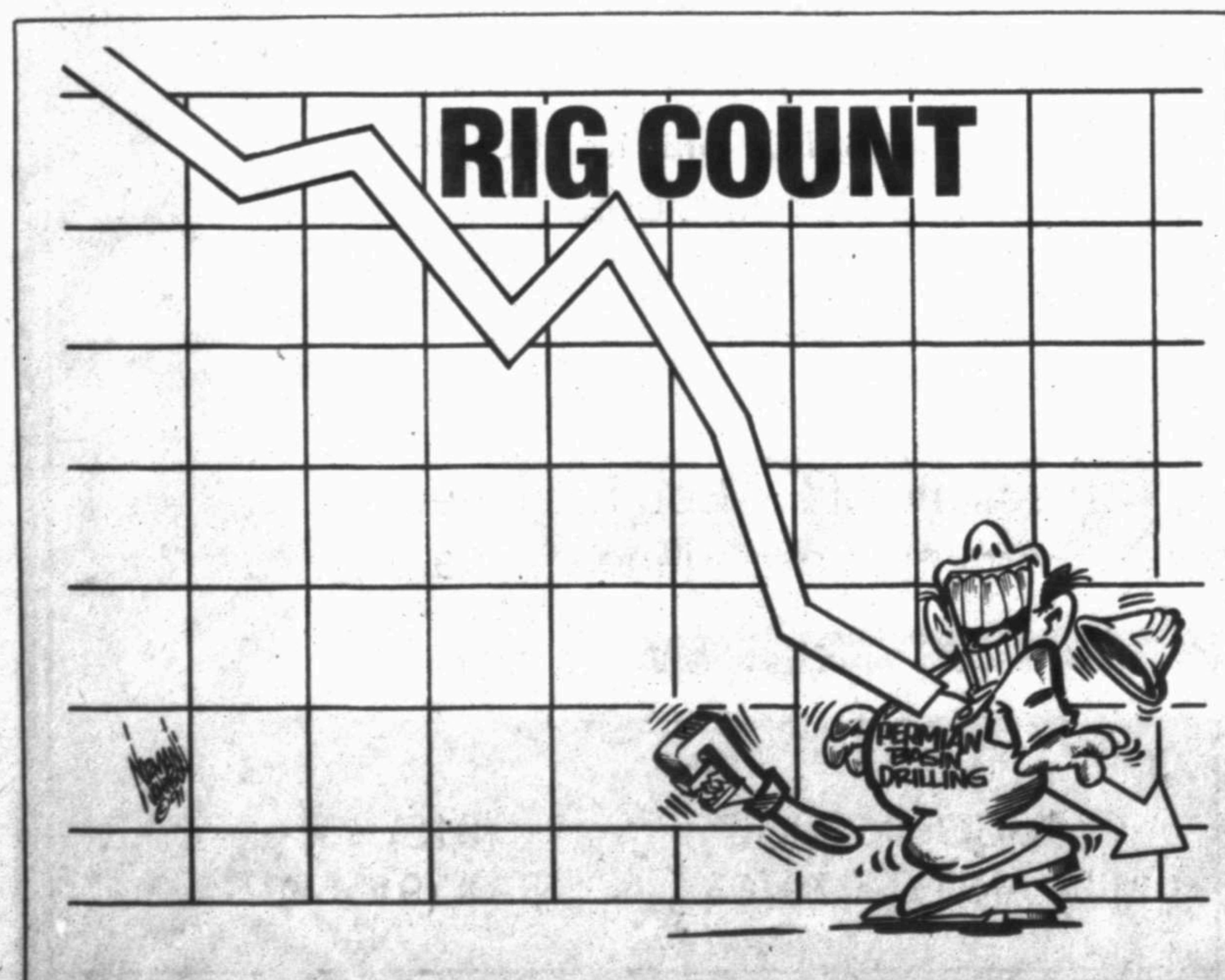
More 'oiltoons'

Here are more cartoons (oiltoons) by Norman Johnson, creator of the cartoon "Oil Bidness" which is a regular feature of the Permian Basin Oil Report.

Johnson, who was raised in the oilpatch town of Fort Stockton and is

married to an land executive of a major oil company, has developed a unique style that allows him to "pin an idea to the wall" with a few strokes of his pin and a bit of wit.

The "oiltoons" on this page reflect that style and wit.



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■ The new strategy will demand for gas-powered and give a corresponding gas produce

N.Y. Times Ne

FORT WORTH embryonic indu gas-powered veh "on a fast track" energy bill passe week, Dallas oil ens said.

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Demand grows for gas-powered cars

■ The new energy strategy will help fuel demand for natural gas-powered vehicles and give a corresponding boost to gas producers.

N.Y. Times News Service

FORT WORTH, Texas — The embryonic industry for natural gas-powered vehicles has been put "on a fast track" by the sweeping energy bill passed by Congress last week, Dallas oilman Boone Pickens said.

Energy Secretary James Watkins, in town to visit a company formed by Pickens to convert vehicles to burn natural gas, forecast that the National Energy Policy Act will help trigger "an exponential increase in natural gas utilization."

Pickens led Watkins on a tour of MESA Environmental, a 47-employee company that launched operations in April at a cavernous warehouse in south Fort Worth. MESA Environmental is a subsidiary of MESA Inc., a Dallas-based oil and natural gas producer headed by Pickens.

The National Energy Policy Act in some cases mandates, and in other instances strongly encourages, the expanded use of alternative fuels such as natural gas.

Proponents of natural gas tout it as a cheap, clean-burning and domestically abundant fuel that could significantly reduce the nation's reliance on foreign oil.

The energy bill, which Watkins said President Bush soon will sign into law, provides that federal and state governments must convert three-quarters of their fleets of vehicles to alternative fuels by the end of the decade.

It also states that 70 percent of private and municipal fleets must run on alternative fuels by 2006.

Pickens said the bill also provides a \$2,000 tax deduction for persons who purchase vehicles that burn natural gas and a \$200,000 tax deduction for companies that build natural gas fueling stations.

The energy bill also provides greater financial incentives for expanded use of mass transit. That could encourage increased use of



T. Boone Pickens, right, has long been a proponent of natural gas-powered vehicles and praises the recently-passed energy strategy.

'This isn't just pie-in-the-sky, silly talk. It can be done.'

— T. Boone Pickens, president, Mesa Inc.

natural gas, since many municipal bus systems are converting portions of their fleets to burn the fuel.

Pickens is chairman of the Natural Gas Vehicle Coalition, a consortium of natural gas producers, pipeline companies, utilities, automakers, equipment manufacturers and other companies attempting to expand the market for natural gas vehicles.

Pickens, who estimates there are now 50,000 natural-gas powered vehicles in the United States, forecasts that number will quadruple to 200,000 vehicles by the end of 1994.

In the same time frame, the number of natural gas fueling stations will jump sixfold, from 500 to 3,000, he forecasts.

But he saves his boldest forecast for the year 2000, prophesying that by the end of the decade there will be 20 million natural gas vehicles in the United States, representing roughly 10 percent of all vehicles on the road.

"This isn't just pie-in-the-sky, silly talk," he said. "It can be done."

As an example of the progress being made, Pickens said MESA Environmental hopes to win approval within 60 days of a modest-sized pilot program in heavily polluted Mexico City to convert vehicles to burn natural gas.

Over the next two years, Mexico hopes to convert approximately 147,000 vehicles in Mexico City to burn either natural gas or propane (a natural gas liquid), said MESA Inc. spokesman Jay Rosser.

"I don't think there's any doubt ... that Mexico City is going to natural gas as a transportation fuel," Pickens said. "Natural gas is the cleanest-burning fossil fuel and Mexico City has plenty of natural gas."

MESA Environmental also has made proposals in eight large U.S. cities to help convert vehicle fleets to burn natural gas and to sell gas to the fleets once they are converted.

Before large numbers of fleets can be converted under the offer, Pickens said MESA Environmental first must reach agreements with local gas distribution companies to ensure a supply of the fuel. The process of reaching agreements probably will take about six months, he said.

A car or pickup typically can be converted to burn natural gas for about \$2,500. Most converted vehicles are "dual-fuel" vehicles, meaning that they can burn either compressed natural gas or gasoline. The change from one fuel to another can be made simply by flipping a switch on the dashboard.

Auto manufacturers are just beginning to build vehicles that come with natural gas engines as original equipment. General Motors is now building GMC Sierra pickups with natural gas engines.

Natural gas vehicles are cheaper to operate, with the fuel costing only 65 to 70 cents per gallon compared to about \$1.10 for gasoline. Because the fuel is cleaner-burning, oil and sparkplug changes can be done much less frequently and maintenance costs therefore may be substantially lower.

So far, most vehicle conversions have been for fleets such as buses, trucks and delivery vans that can use a central refueling station. These vehicles traditionally drive a lot of miles and can realize sizeable savings in fuel and maintenance costs by using natural gas.

But there also presently are substantial drawbacks to natural gas-powered vehicles, particularly for individual motorists.

First and foremost, unless you buy a vehicle with original natural-gas equipment, there is the substantial cost for converting a vehicle. And there presently are only a handful of public natural gas fueling stations. In addition, natural gas fuel tanks may take up valuable trunk space in vehicles converted to burn the fuel.

Midland benefits from Spraberry

By Mella McEwen

Staff writer

A number of Midland oil operators, and the city itself, owe much to the Spraberry Trend, a massive oil field that lies underneath the Midland Basin, occupying parts of Midland, Martin, Glasscock, Dawson, Upton and Reagan counties.

A list of operators who have benefited from their activities in the Trend can almost read like a Who's Who of Midland operators: Henry Petroleum, Adobe Oil & Gas (now part of Santa Fe Energy), which drilled on the Sale Ranch, MWJ Producing, and MGF, now part of Parker & Parsley Petroleum.

The Trend has been classified a giant field because it has produced over 304 million barrels since it was discovered in 1952.

One Midland operator who has been active in the field since its early days is John L. Cox, who said he has drilled approximately 1500 wells in the Spraberry and continues to operate 1,000 of those wells to this day, noting that "I'm still producing wells I drilled there in 1954."

He began drilling in 1950 when he went to work for an independent oil and gas producer named Ted Weiner, working from him until 1952 when Cox decided to strike out on his own.

The Spraberry is the mainstay for Parker & Parsley Petroleum Co., according to company President Scott Sheffield. One of the most active drillers in the field and in the Permian Basin, the company currently runs about 10 rigs in the Trend and plans to drill between 200 and 250 wells per year over the next three to four years.

Sheffield said Parker & Parsley plans to drill primarily in four units: The Shackelford, Preston, North Pembroke and Midkiff. He went on to estimate that 80 percent of the company's drilling will be in the Midland County portion of the Trend.

The company currently operates 30 percent, or 2,000 wells, of the 7,000 wells operating in the Trend. The company gets 85 percent of its Spraberry revenues from the crude, which is sweet, and 15 percent from the casinghead gas, which Sheffield described as sweet gas, rich in BTU content.

He attributed the field's popularity to the fact that it's both a low-risk field and an easy one to drill.

The field also has a long life, with many wells lasting 30 to 35 years, Sheffield added.

But Jim Henry, president of Henry Petroleum cautioned that drilling in the Spraberry requires some caution.

He explained that "It's an engineering type of play where you have to be careful where you drill. The reserves are good in certain sweet spots, but you have to be careful to just get in those sweet spots. If you don't, you'll drill wells that aren't economical. It's close to impossible to drill a dry hole, unless you're in the northern part of the Trend in Dawson County."

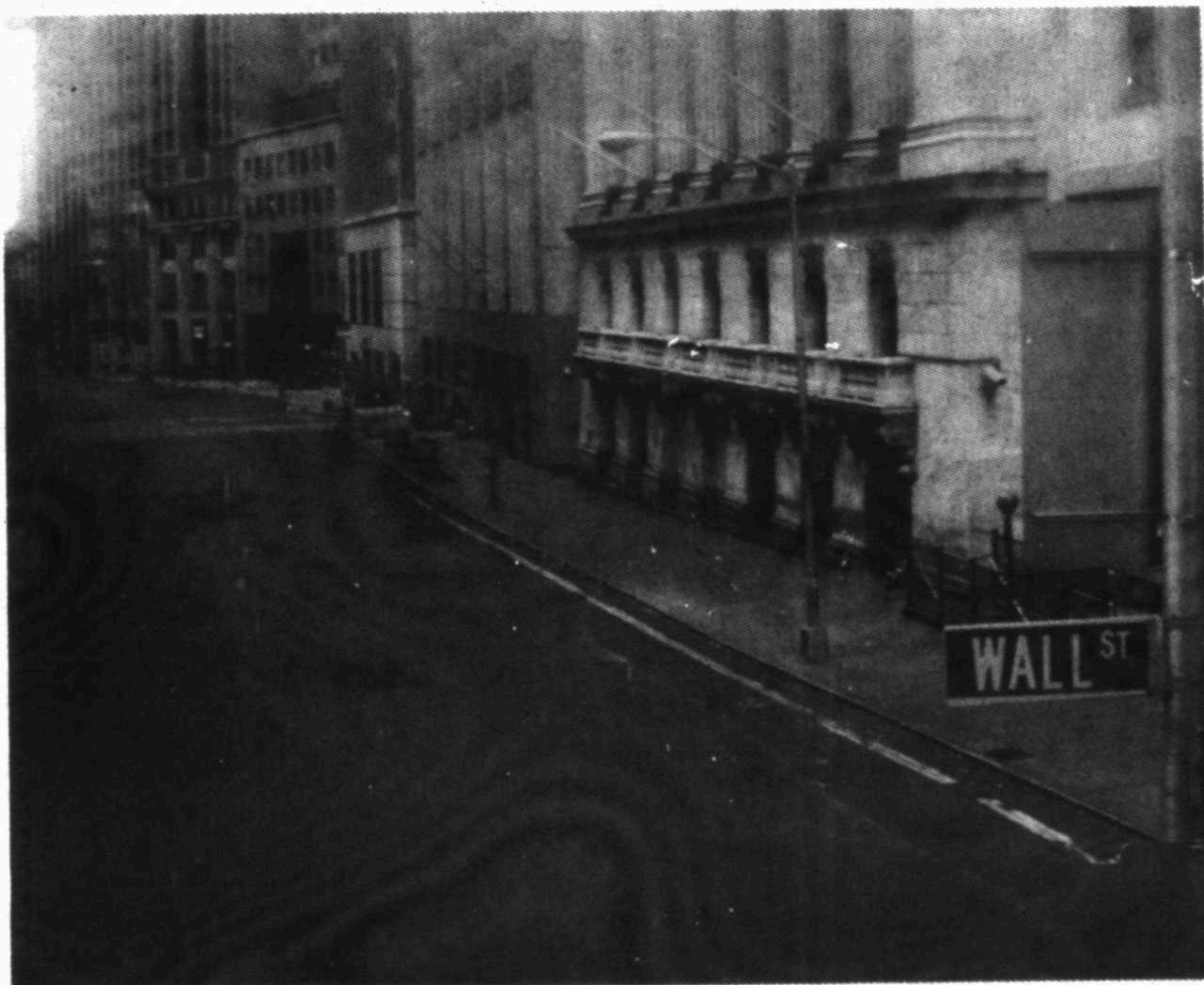
Still, his company averages 20 new wells in the Trend each year, and Henry has drilled in the Trend for 20 years. He said Henry Petroleum has drilled close to 400 wells in the Trend and currently operates 300 there.

"It's been one of the primary factors in many of the Midland oil companies' success," he said. "It's helped Midland more than any other field, I would say."

The original Spraberry Trend discovery was in 1949 in a small field in Dawson County. It produced from Leonard (Permian) zones. A month later, Spraberry production was encountered in the Tex-Harvey field of Midland County, and still another month later in the North Gail field in Borden County.

Please see BENEFITS/86EE

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OCT 18 1992

Reeves County field yielded first show of oil in Basin

■ The earliest occurrence of oil was in the Toyah field of Reeves County and did much to attract attention to the area.

Joe Dominey

The Toyah field located in west-central Reeves County, 17 miles northwest of Toyah was the earliest occurrence of oil in the Permian Basin and did much to attract attention to the hydrocarbon potential of the area.

The town of Toyah is situated west of the Pecos River in Reeves County, 16 miles southwest of Pecos, near the Toyah and Cottonwood creeks. It was once a division point on the Texas & Pacific Railway where steam engines took on water and coal and train crews changed their assignments. Passengers detrained and were served a meal in the dining room of the depot. The city had a population of about 2,000 until the late 1920s.

In early 1903 J.D. Leatherman reported oil about 15 miles northwest of Toyah in the Toyah Basin. He was drilling for water in Section 17, Block 59, southwest of the production that was developed later, when oil was encountered at 190 feet. Considerable gas accompanied the oil. Limited amounts of unrefined oil were sold in Pecos for greasing windmills.

In the fall of 1903 and early 1904, a California company drilled two wells near the Leatherman discovery. Neither produced commercially. Then, in early January 1906, a rancher struck oil while drilling a water well in the south central part of Section 17, Block 59.

I.W. Ross sank 10 or 12 wells in the south central part of Section 8, Block 59, three miles west of the rancher's well. A small amount of oil was pumped to two small storage tanks, then sold to the T&P to grease its engines.

In 1909 geologist H.A. Evarest mapped the San Martine structure of the area. Convinced that oil could be found in Block 58, he attempted to organize an oil company, but did not immediately

succeed.

During 1909-1910, the Texas Company drilled two relatively deep tests in the Toyah field, both in the southwest corner of Section 16, Block 59. When the first well reached 1,000 feet, a gusher spouted 30 feet. The well did not hold up, and was abandoned. The second well caught fire at 1,800 feet. At 3,000 feet only a small showing of oil was indicated. The company closed down and left the area.

C.R. Troxel, a wildcatter, made several attempts in 1910, without success.

In 1914 the Producers Oil Co. drilled the Huling-Ross No. 1 to the unprecedented depth of 4,115 feet. Dolomite taken at various depths contained some evidence of oil, but no oil was produced.

In May 1919 oil was discovered by the Sunshine Corp. eight miles north of Pecos and about a mile west of the river. The Laura well, as it was called, made a heavy showing of oil at 800 feet.

Troxel and Ira C. Bell decided to conduct a deep test 16 miles northwest of Toyah. The Bell No. 1 struck oil in mid-February 1920 at 650 feet, and oil stood 200 feet deep in the hole. When baled, it produced 21 barrels of high-grade petroleum. A month later it started a flow rated between 1,200 and 1,800 barrels a day.

Bell No. 1 soon ran into trouble. After it had flowed by heads for two weeks it was put on the pump. Almost immediately the hole began to fill with sand because of a leak around the packer. Bell decided to drill deeper and announced he was going to sink 10 more wells in Pecos County. He drilled No. 1 to 4,507 feet without finding paying quantities.

Troxel drilled his deep test in April 1921 about a quarter mile north of his earlier effort. After five months it produced between 50 and 100 barrels a day, but the production declined rapidly and stopped entirely.

In 1920 A.A. Stanton drilled a well on Section 45, Block 58, east of the older Toyah field, and struck oil at 235 feet. Several other operators found oil in shallow depths on Sections 8 and 17, Block 59. The average yield, however, never exceeded two or three barrels a day.

At the height of activity, the little town of Toyah enjoyed a boom, with hotels and rooming houses filled with oil operators and promoters. The chamber of commerce hoped for a great oil center to evolve, but in time the crowds left for more promising venues.

THE ARTESIA FIELD: The Artesia field of Eddy County, New Mexico, is east of the Pecos River and beyond a fault that lies to the east of the Pecos.

W.S. Farrish of Humble Oil & Refining Co. reported visiting "the Artesia field late in October 1925, when its daily output was at 4,000 barrels and with some 30 wells drilling, 97 producing and but eight dry holes in the proven area."

The beginning of the Artesia field really dates back to territorial days when the first artesian water wells were drilled in the Pecos Valley. Some of these wells made considerable gas and occasional scums of oil floated to the top.

Late in 1906 a well was started near Dayton that was taken over and completed by Charles S. Brown of Oklahoma City. At 911 and 926 feet it showed oil sand and yielded as much as 40 barrels per day. At 950 feet it encountered sulphur water.

In the Pecos Valley, the Brown well is regarded as the real pioneer.

The first actual well to be started for oil and gas was by Bill Lawrence and associates. The well encountered saturated sand, but when shot, "an ocean of artesian water resulted. This appears to be the story of virtually all other wildcats west of the Pecos."

In 1907 Martin Yates Jr. moved to Artesia. "It was the belief that oil would some day be discovered in the Pecos Valley that caused me to decide to take up my residence here," Yates said.

In 1909 and 1910 the Giant well was drilled, but it was the Brown well that kept the valley enthused. Despite water troubles, it made 600 barrels of commercial oil in one month.

In 1916 Charles Day of Tulsa teamed up with Van Welch, Tom Flynn and R.S. Todd to drill several wells. One at Lakewood was drilled to 2,018 feet and was abandoned.

Please see SHOW/87EE

Artificial lift technology changes

By Ellen Hopkins

Innovative technology in artificial lift includes new ways to use familiar products.

"Even though sucker bars have been around for a while, our application technology is innovative," said Don Bennett, president of Flexbar, Inc.

"In some cases we've seen that by adding sucker bars to sucker rod strings we see dramatic increases in production, in efficiency of the system, and in barrels lifted per horsepower."

Sucker bars can be used with steel sucker rods, fiberglass or a combination. Bennett said, "An operator who typically runs a tapered string of steel rods, from one-inch at the surface to three-quarters above the pump, knows that with this design there can be enough friction to wear holes in the tubing."

"We remove some of the three-quarter-inch sucker rods above the pump and replace them with sucker bars so all the compression occurs here. In

some cases there is a slight increase in weight but the weight is above the pump and not spread out along the string."

Bennett said because the weight is at the bottom of the string, the steel rods above are kept in tension, less stroke is lost to rod stretch, and increased production results.

He cited an example of an all steel string with a pump stroke of 144 inches at the surface and 132 inches downhole.

"By changing to fiberglass rods and sucker bars we actually increased the string weight by 461 pounds," Bennett said. "But we also changed the stroke to 123 inches at the surface which resulted in 140 inches of stroke downhole, and we sped the pumping unit up which increased production."

He cited another documented case, this one a major's 4,680 foot well in the Buckeye field of New Mexico, adding sucker bars to the fiberglass sucker rod string resulted in a 76.9 percent increase in production over steel rods alone. The efficiency of the system, measured

in barrels lifted per horsepower, increased 20.7 percent.

Bennett said Flexbar has entered into a cooperative partnership with one of the largest federally operated laboratories in the country.

"We're working with Sandia Laboratories in Albuquerque, New Mexico to study sucker rod and sucker bar pin connections," Bennett said. "They are reviewing different designs through a finite element analysis (FEA) program."

Bennett said they are currently awaiting news on a proposal before the DOE for funding.

"With the end of the Cold War the government has decided to disseminate defense-related technology," he said. "The idea is a government technology transfer of science and research capability to benefit industry."

Bennett said upon funding approval, Flexbar will manufacture the pin connection prototypes and some local majors have agreed to use them in their wells.

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Russian oil rush: Riches and risks

By Thomas Ginsberg
Associated Press Writer

TYUMEN, Russia (AP) — Leonid Zakharov, the brash, rotund chief of a small state oil company, has a half-joking threat for anybody who challenges his claim to one of Russia's richest oil fields.

"I have a pistol," he said to a visitor, patting his hip where a gun might have been.

With militant fervor, Zakharov has become one of many company and government officials competing for parts of the industry that controls Russia's most important natural resource and hard-currency earner.

The bickering, caused by the collapse of the Soviet Union and subsequent promises of privatization, has left both the oil and the industry without a clear owner. It has worsened a host of troubles that are lowering production and slowing foreign investment.

"Each company ought to be able to decide its own path," Zakharov said of his North Varyegian Oil Company, which pumped almost 1 percent of all Russian crude in 1991. "This is an entirely new age, an entirely new epoch."

The epoch, however, may see the industry lose its position as the world's No. 1 oil producer. Outdated technology combined with a lack of new wells and equipment are expected to drive production to less than 450 million metric tons this year, from 510 million last year.

That would drop it to nearly the same level as second-ranked Saudi Arabia, which produced about 425 million metric tons in 1991. A ton of oil equals seven 42-gallon barrels.

"There's a paradox in our oil industry," said Vladimir Repin, deputy director of the Nizhnevartovsk Oil and Gas Production Association. "Everywhere, the oil industry is profitable, but here, it's unprofitable."

Repin's conglomerate controls the Samotlor basin, the richest oil field in western Siberia.

Crude oil now costs more to extract than the state allows producers to charge, but President Boris Yeltsin has refused to risk social unrest by raising domestic energy prices quickly.

As a result, the industry cannot afford to modernize or to tap known reserves, only half of

which have been developed in Russia. Privatization might alleviate some problems, but it has been slowed by political resistance.

Outside investment is one answer, and many foreigners have visited the oil regions to explore opportunities. But the obstacles are great, including infighting among men like Zakharov and a hard-currency tariff of about 30 percent exporters must pay on each ton of oil sent abroad.

In an attempt to increase production, Yeltsin's government has granted tariff exemptions to some foreign exporters and promises to give domestic producers credits and more of its own profits. Still, officials do not expect a turnaround for three to four years.

"We're very much in a monetary, not oil, crisis," said Don Joiner of White Nights, a U.S.-Russian joint venture struggling to keep its 2-year-old drilling operation going in the Varyegian basin.

Russia produces 90 percent of all the crude oil in the former Soviet Union. Half of that comes from western Siberia, a vast, forbidding land of forests, swamps and bleak tundra nearly one-third the size of the United States.

After World War II, workers attracted by high pay moved to Tyumen province, 1,500 miles northeast of Moscow. They survived dark, severe winters and mosquito-infested summers to drill wells,

lay pipelines, and build roads and towns.

After struggling with limited reforms introduced by the Soviet Union, managers and directors began challenging government control after the August coup.

"We pump the oil, therefore the wells are ours," said Vladimir Shten, a technical director at Repin's conglomerate. "The wells are sitting on land owned by the state. It's our state land, but the process of privatization is going on."

Privatization supposedly would let Zakharov, Repin, Shten or anybody with enough money or influence own the land. But the government has not fully implemented the complex plan, which requires Kremlin approval of any privatization because oil is a "strategic asset."

Delays and confusion have led to something like a free-for-all in Siberia. When Zakharov and others assert their right to make independent decisions, higher-level officials such as Repin try to block them.

"They try to make declarations about our work, but they have no authority with the workers," Zakharov said, explaining his own authority with a Soviet management slogan: "The voice of the chief is the voice of the workers!"

Zakharov, whose formal titles are chief geologist and head of his company's labor collective, said he

must be free to make deals and money without the consent of the parent Varyegian Oil and Gas Production Association.

Already, Zakharov said, he has unilaterally considered and rejected a proposal from the Swiss company Marc Rich.

Directors of the parent associations persuaded Yeltsin to sign a decree June 1 reaffirming their control over the industry.

Critics claim the decree contradicts the privatization law, and Zakharov called it "a step back to the old regime." But according to Nikolai Suslik, a deputy director of the parent Varyegian association, "It will help us control the situation."

Meanwhile, privatization goes slowly. Only a few stock companies have been formed and most deal with marketing oil or trading it on commodities exchanges, not with production.

Contracts with foreigners may be the most effective route to co-operation within the industry, but even then, arguments can arise over everything from shares of the profit to the valuation of Soviet equipment.

Gov. Yuri Shafranik of Tyumen province, caught between Kremlin officials and such mavericks as Zakharov, wants to set up commissions with foreign companies to resolve differences that block investment.

Foreigners pioneer Siberian oil fields

By Thomas Ginsberg
Associated Press Writer

RADUZHNY, Russia (AP) — The first Western company to get Soviet approval to pump Siberian crude to the world now is struggling with the reform-minded Russian government that inherited the Kremlin.

White Nights, a joint venture based in this prefabricated town 1,500 miles northeast of Moscow in western Siberia, has been hit hard by a 30 percent tax on exported oil — about \$6 a barrel.

Because of a nationwide money shortage, it also has trouble finding enough rubles to pay its 1,350 workers. The company's Russian half, the Varyegian Oil and Gas Production Association, is even farther behind. The American side, Phibro Energy Inc. and Salomon Brothers, cut off funds this year after pouring in nearly \$110 million. As a result, 60 of the 65 American staff members in Raduzhny and Moscow were laid off.

"They said we'll get nothing more until these problems are solved," Don Joiner, a director of White Nights, said in his cramped office in a three-story apartment building that has been home to the joint venture since 1990.

White Nights would be a Siberian success story if not for the money troubles. It has replenished stocks of Azerbaijani and Ukrainian drilling pipe with tubing from Japan, and has raised production.

The company brought in tons of cement, which is essential for reinforcing wells but impossible to find because state supply networks have broken down. White Nights imported Ford and Mitsubishi trucks to navigate the cold, desert-like terrain carved out of swamps and forest.

It uses Soviet-made drilling rigs at \$3,000 a day rather than Western ones at 10 times the cost. If it stays in business, White Nights hopes to produce more than 1 million barrels of light crude this year, sending it by pipeline to the Black or Baltic Sea, then by ship to world markets.

Hart Publications announces new directory

Staff report

Hart Publications Inc. has announced the publication of the Gulf States/Permian Basin Petroleum Directory.

Formerly the Gulf States Directory, the addition of West Texas increases the directory's listing to 15,000, according to the publisher, and features a new letter-sized format that will permit the publication to grow in the future.

The directory will cost \$77, and will feature two indexes for each region and a geographical and alphabetical index of all listings.

Advanced well service rig to be at Oil Show

Staff report

R&H Well Service Inc. of Crane which took delivery, in April, of the first rig in the nation to utilize both advance disc brake technology and computerized electronic engine controls is set to take delivery of two more rigs this month.

The company's third rig will be featured during the 1992 Oil Show. The rig, which has been hailed as the well service rig of the 21st century, is powered by IRI International's DBX disc brake drawworks system and is the first rig to be coupled to a Detroit (DDEC) engine. The 8v92A engine is supplied by Stewart & Stevenson of Odessa.

The disc brake furnished by IRI, replaces the conventional band brake to provide safer operation, decreased operator fatigue and increased control. The air-cooled brakes also provide less environmental impact and less maintenance, as a result of quick-change brake pads.

Other contractors using the new state-of-the-art disc brakes are Yale E. Key of Midland and Rambler Well Service of Enid, Oklahoma.

BENEFITS: Trend helps city

(From 83EE)

The Spraberry Trend is defined as a great stratigraphic trap of complexity and uneven yield and averages 1,000 ft. in thickness. It is largely comprised of the lower Leonard series, below the San Angelo and above the Dean of Permian Wolfcamp series. It is divided into three segments, the upper, middle and lower.

The Upper segment is approximately 200 to 250 ft. thick, composed of three siltstone members with intervening black shale. The Middle is composed of black shale with siltstone and/or limestone that is between 40 and 50 ft. thick; total thickness is 300 to 350 ft.

The Lower segment resembles the upper segment is contains four siltstone members and is up to 400 ft. thick.

Henry said operators are only recovering 8 percent of the oil in place in the Spraberry, with that figure up to 12 percent in areas where secondary units are being waterflooded. "There's a lot of oil left to be discovered," he added.

The Spraberry produces from six or seven different formations and Henry said "We keep finding some of these formations produce better in other areas, so we go back and recomplete them and new areas are being developed all the time."

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(From 84EE)

THE WESTBROOK FIELD
The wildcat well that opened the first commercial field in the Permian Basin was near Westbrook, west of Colorado City.

Leading citizens of Colorado City, eager for their county to share in Texas' oil wealth, invited potential wildcatters to consider their area. Steven Owen, manager of the Underwriters Producing &

While inaugurating commercial production of oil in the region, Mitchell County never underwent a genuine boom. No bustling town sprang up near the Westbrook field or the other producing areas of the county. The reason was simple: the amount of oil flowing from Mitchell County wells did not encourage a sizeable influx of

Ricker showed them all his research, maps, applications for permits, and offered to sell his and his associates' rights for \$50,000. After analyzing Ricker's offer for some two hours, Pickrell and Krupp decided that \$50,000 was too much to

"As I was leaving New York on one of my trips to the field, two of these women handed me a sealed envelope and told me that the en-

One Wednesday night, May 30, a crowd of 300, including oil scouts of the Gulf and Texas companies,

No. 11 was an even better producer. It flowed 3,000 barrels a day. Nos. 9 and 11 appeared to have established an axis running northeast and southwest, defining a structure that could be developed with confidence.

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Oil well drilling crews for employment in Colorado and Utah. Will be interviewing for drillers, floormen and derrickmen on October 5th and 6th. Please call Odessa Holiday Inn, 333-3931 Room 203. No Calls Before October 5th, and 6th.

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math and chemistry required. Please call Craig 368-0888/ or fax resume to 363-9539.

TAX PARTNER: Local El Paso CPA Firm is looking for the right Tax Manager who has more than 6 years current CPA firm experience. Send Resume to: Colton, Starr, Theisen & Co., 4171 N. Mesa, B-100, El Paso, TX 79902.

MUD ENGINEER NEEDED for the Permian Basin area with a strong industrial background. Send resume BOX M-10 c/o The Midland Reporter-Telegram, P.O. Box 1650, Midland, Texas 79702.

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Engr. I - Must be registered by the State of Texas as a professional engineer. Out of state professional engineers not currently registered in the State of Texas must be eligible for registration by virtue of having an EAC/ABET accredited degree and/ or having passed the Fundamentals of Engineering and the Principles and Practices of Engineering exams. Duties include assisting with supervision of area engineer office operations, oversee construction/ design projects, etc.

Both positions require the passing of a physical exam and a satisfactory driving record (drivers record check will be conducted) as a condition of employment. Contact the Texas Department of Transportation in Odessa at 915-332-0501 ext. 271 to apply.

Job vacancy closes at 8:30 a.m. on 10-23-92.

TRUCK DRIVER WANTED with winch experience. Must have Class A CDL. Apply in person at T & C Tank Rental, 1415 CR 133, or call 563-1395.

LONESTAR DISTRIBUTION INC. is now taking applications for experienced Mud Truck Drivers. Must have CDL license and be able to pass drug test and physical. Apply in person at 11809 County Road 125 West, Midland, Texas, 79711.

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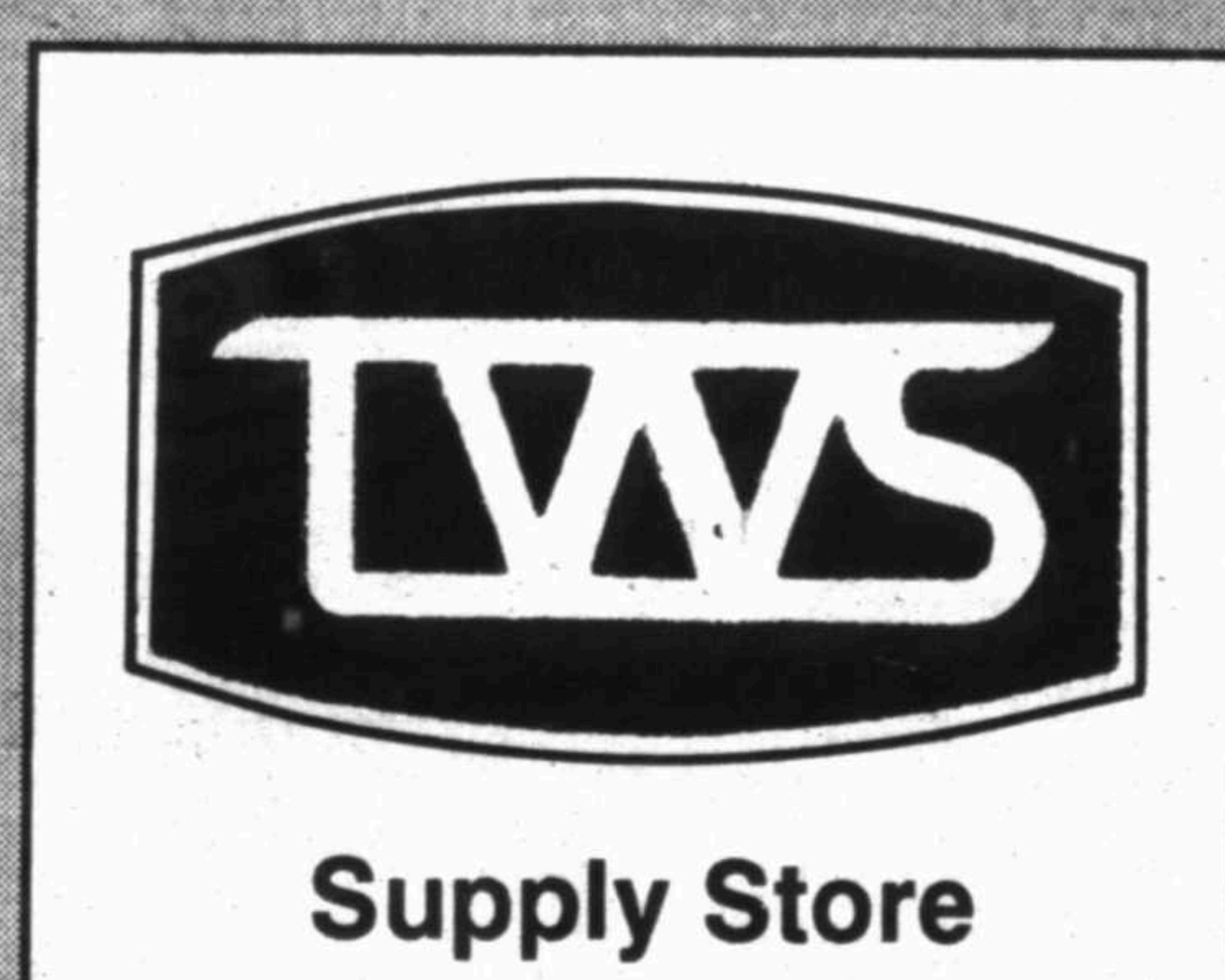
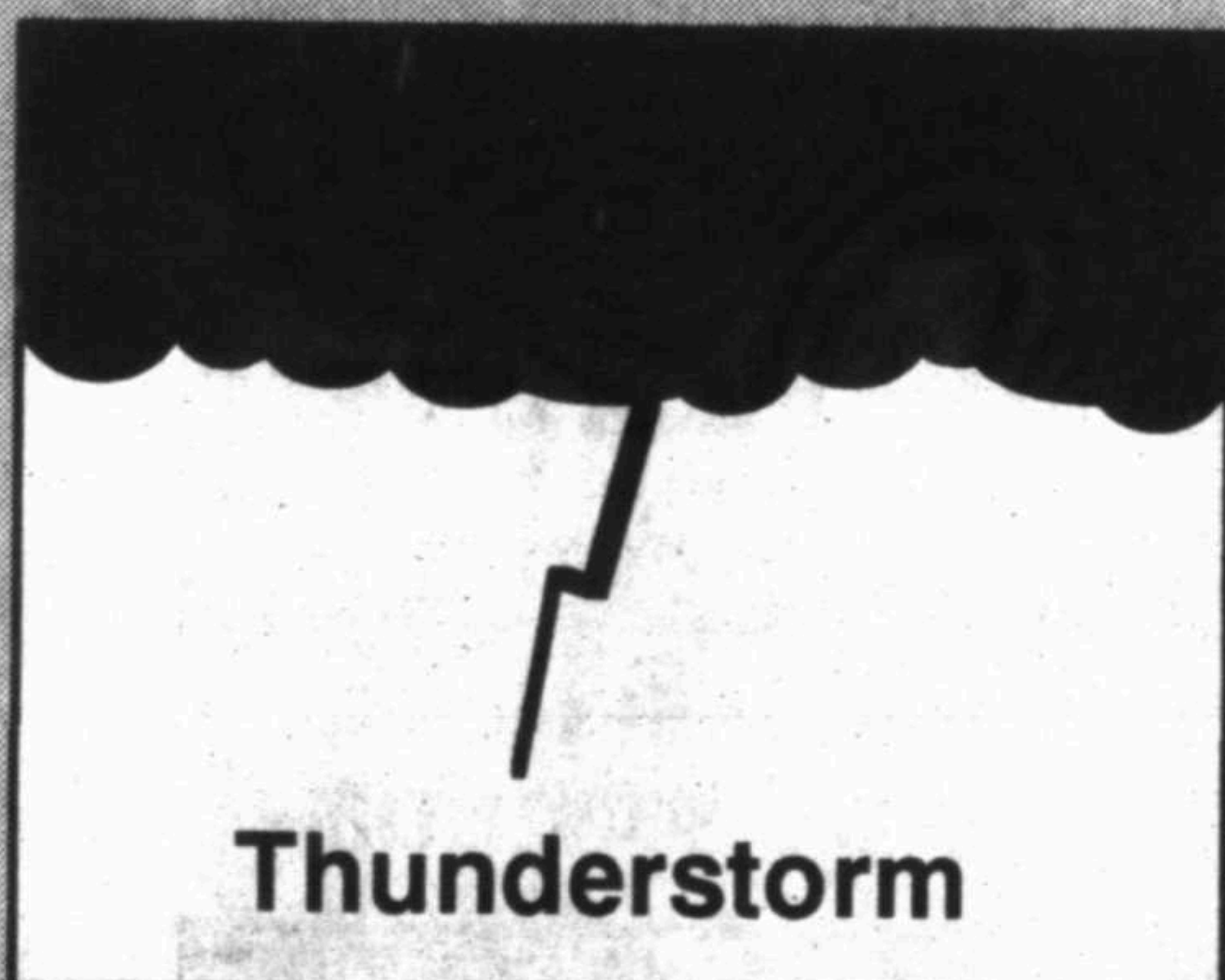
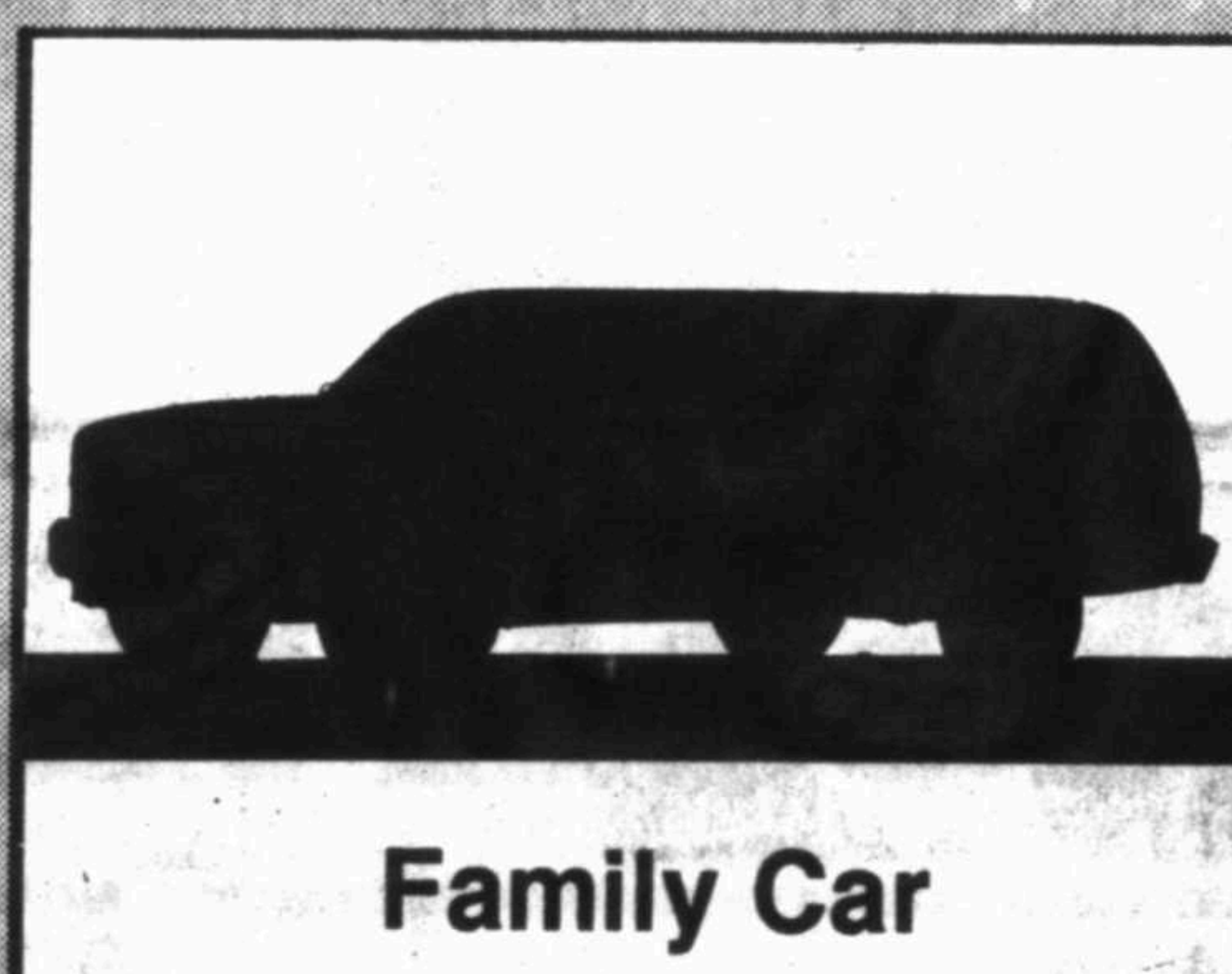
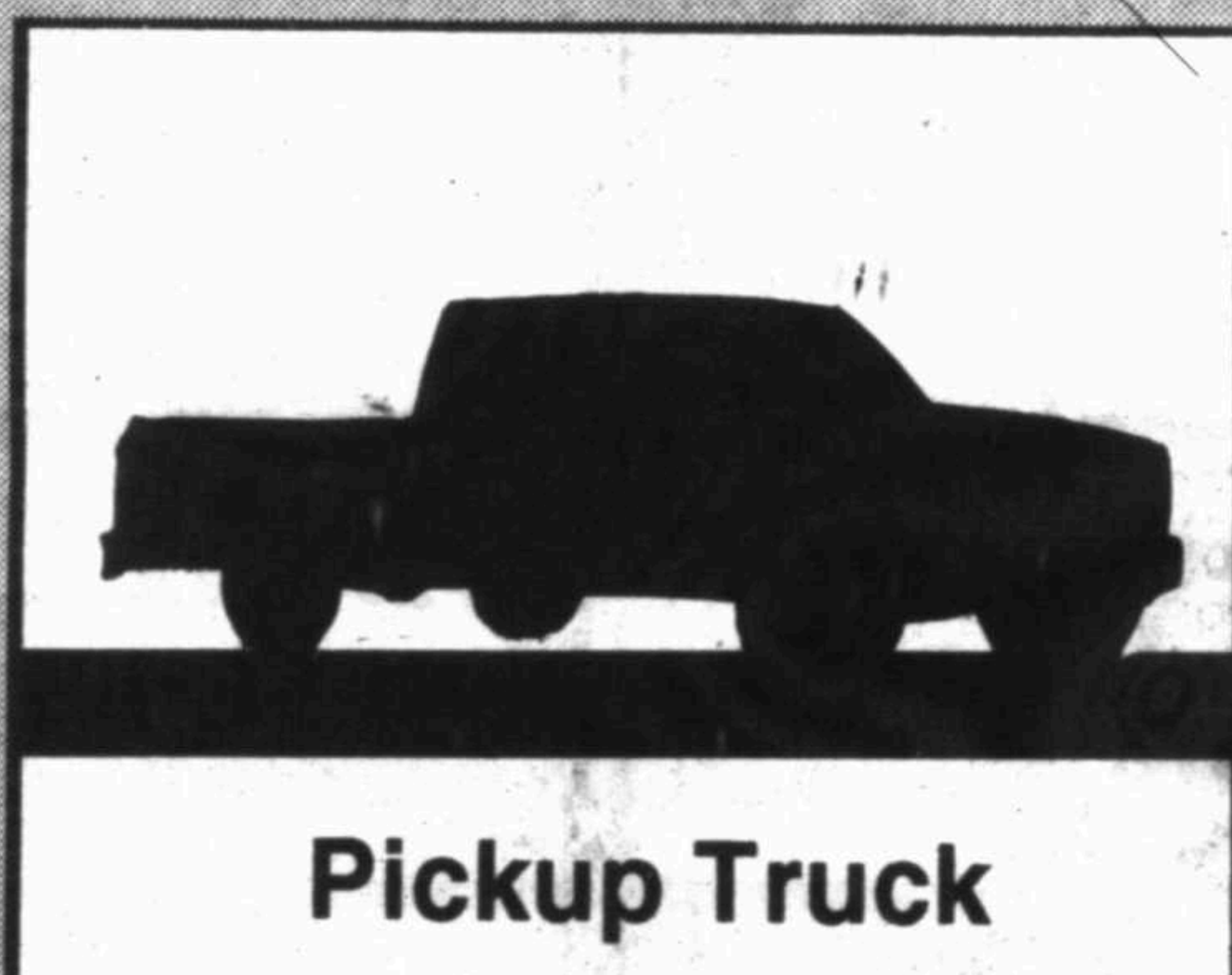
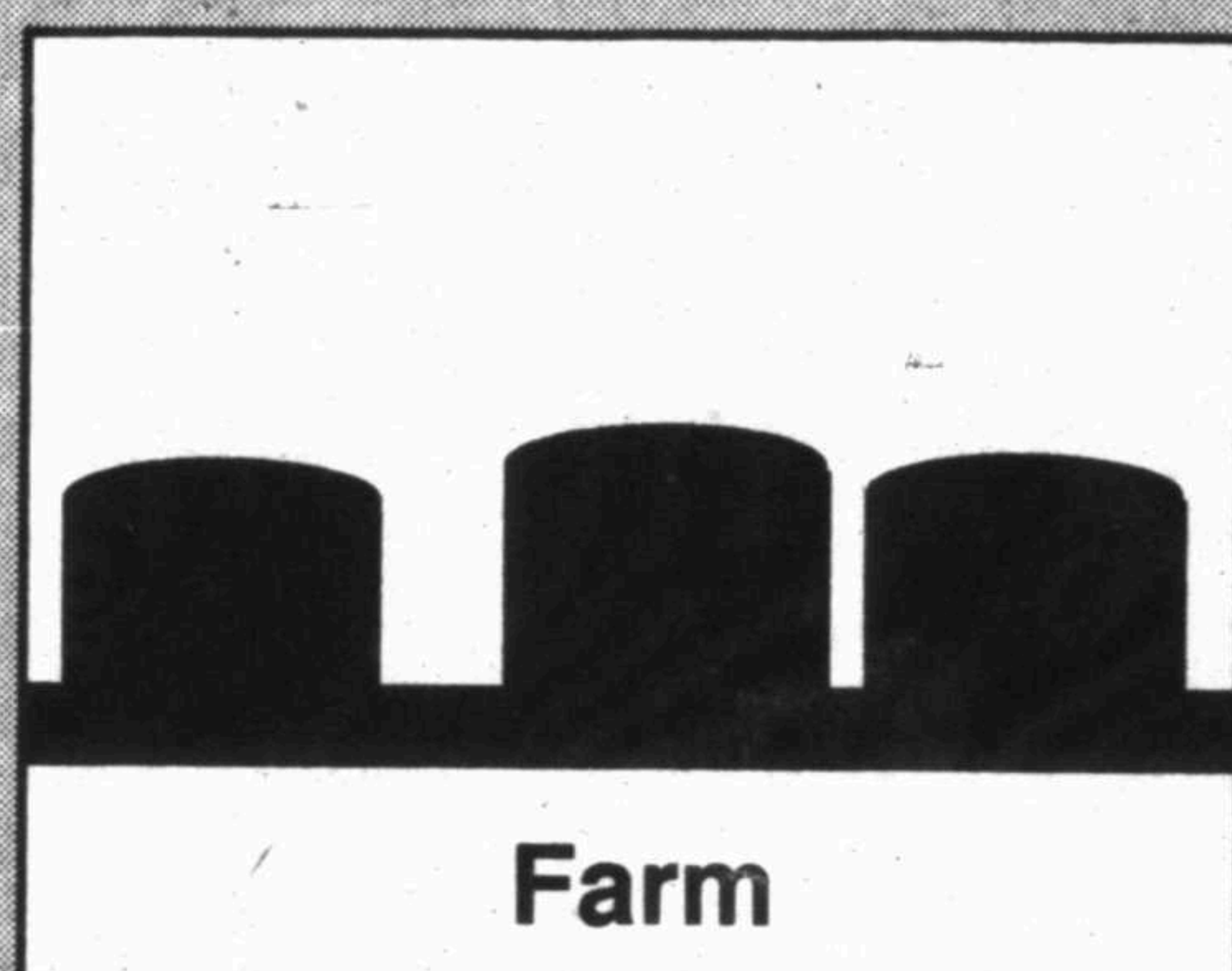
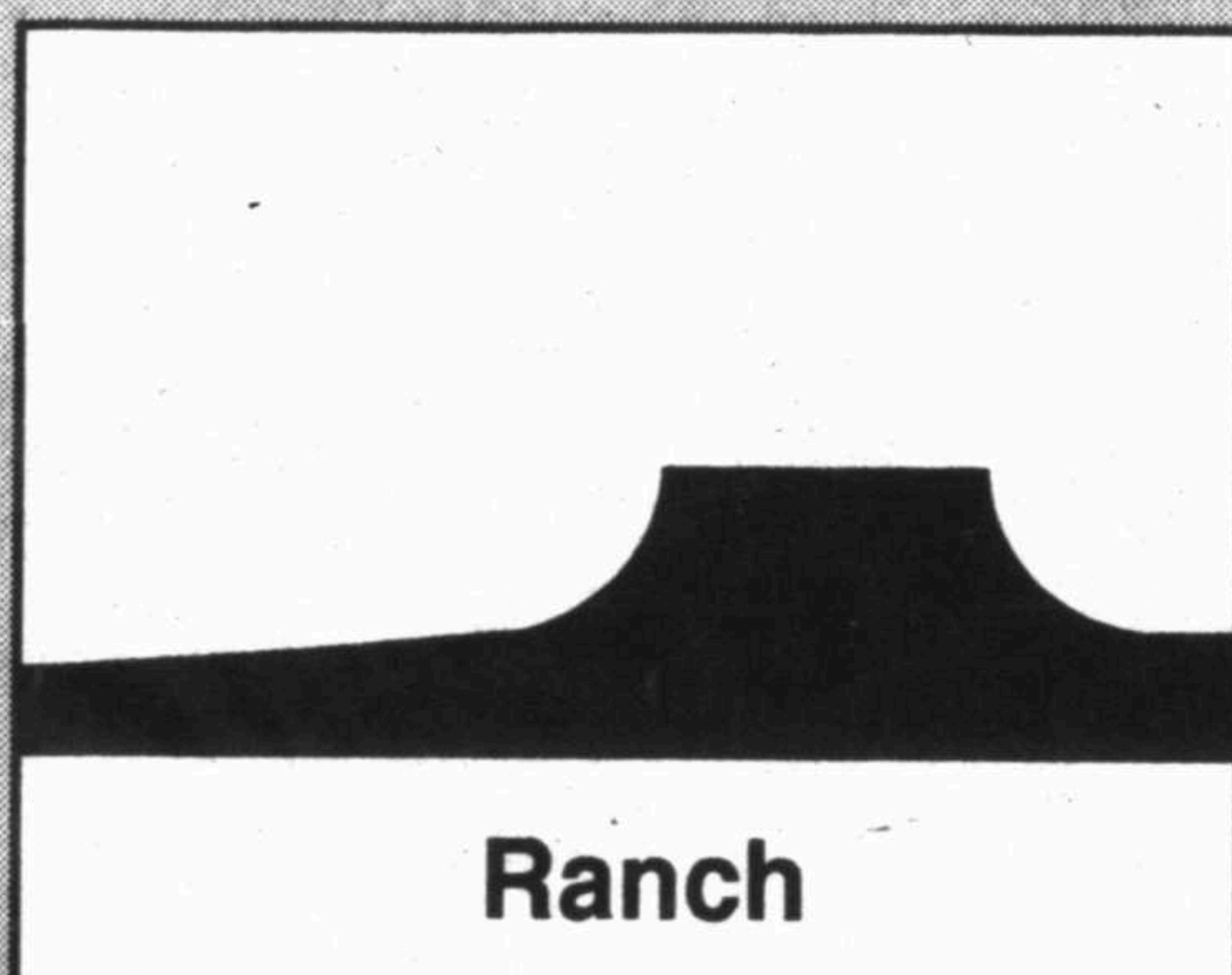
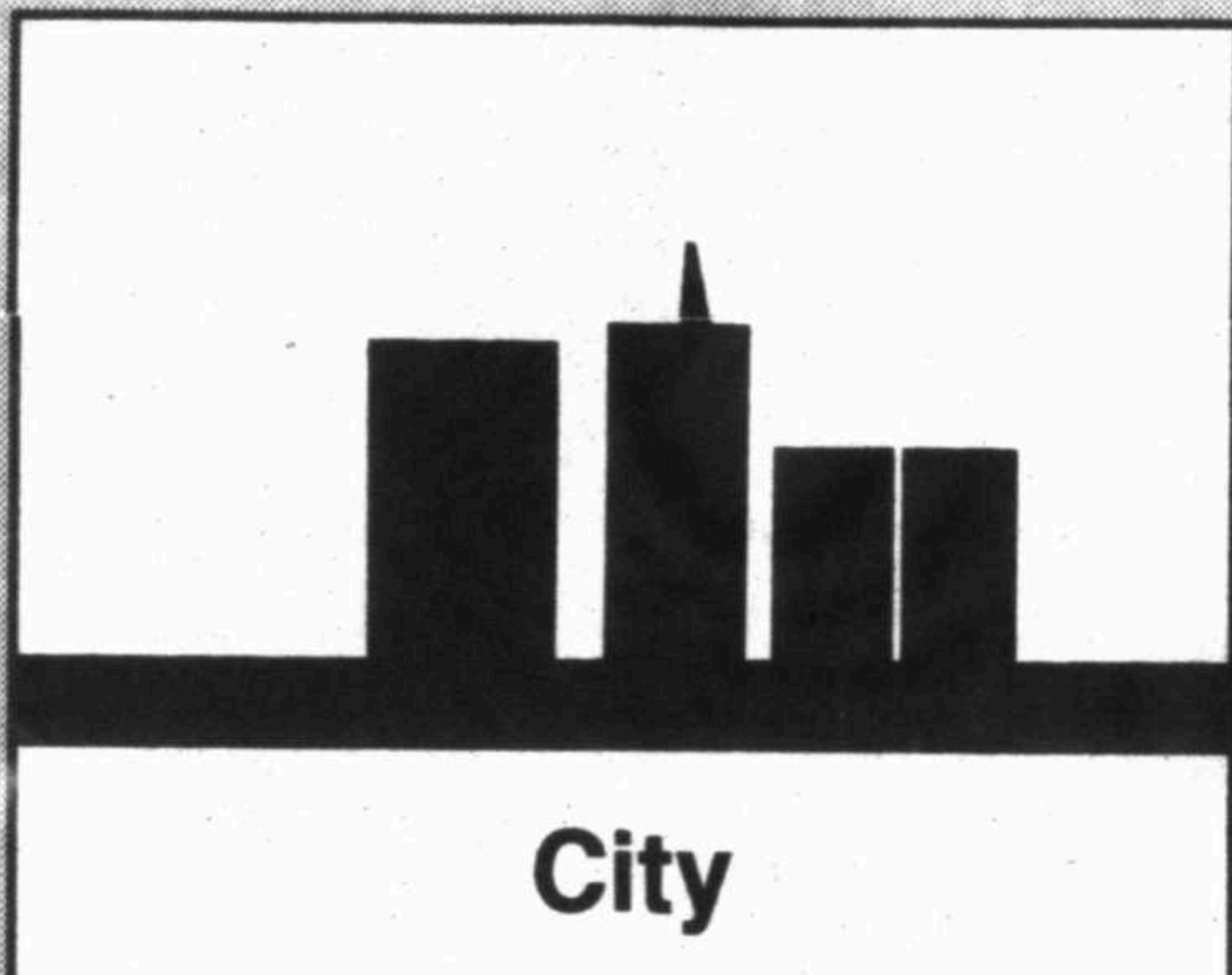
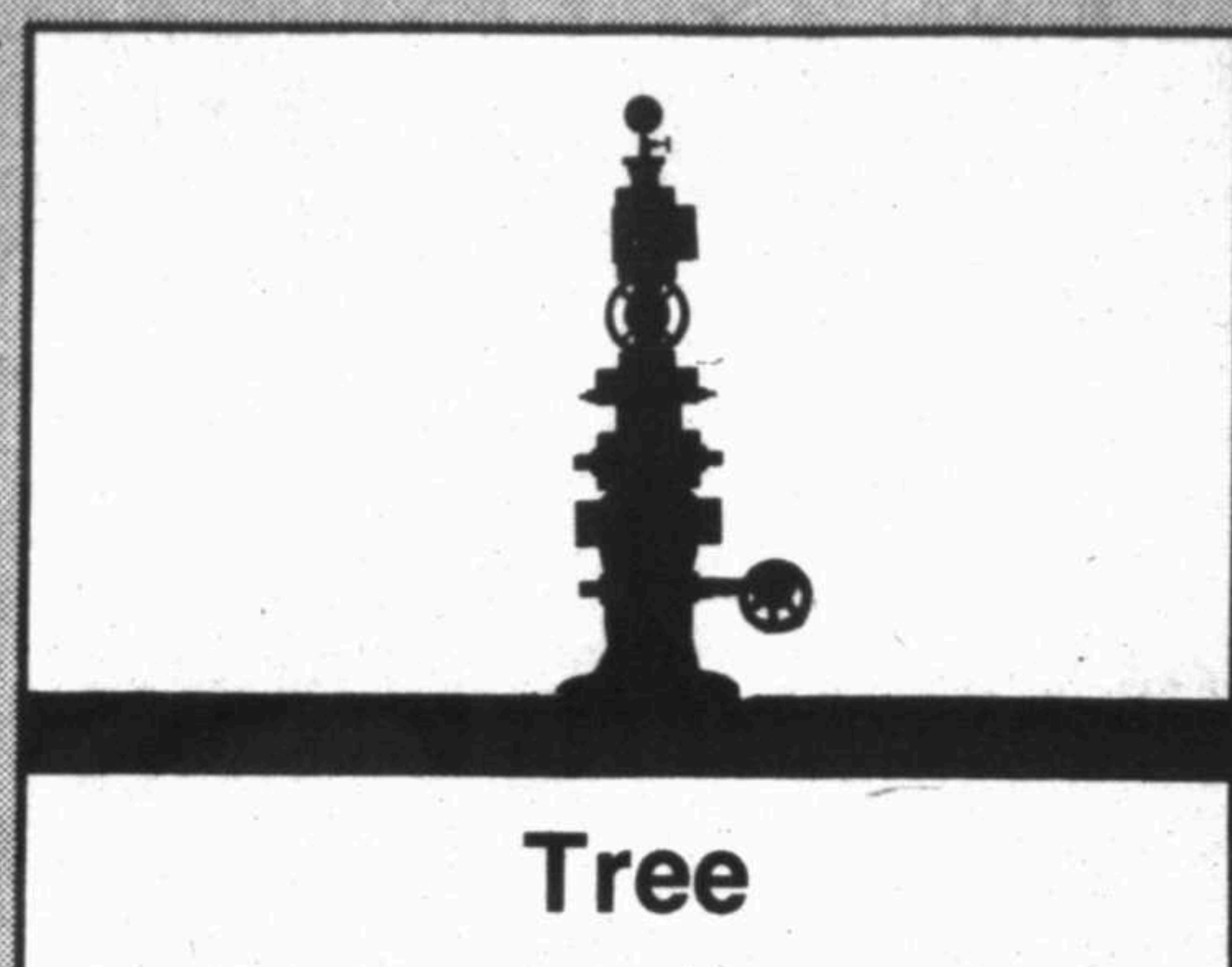
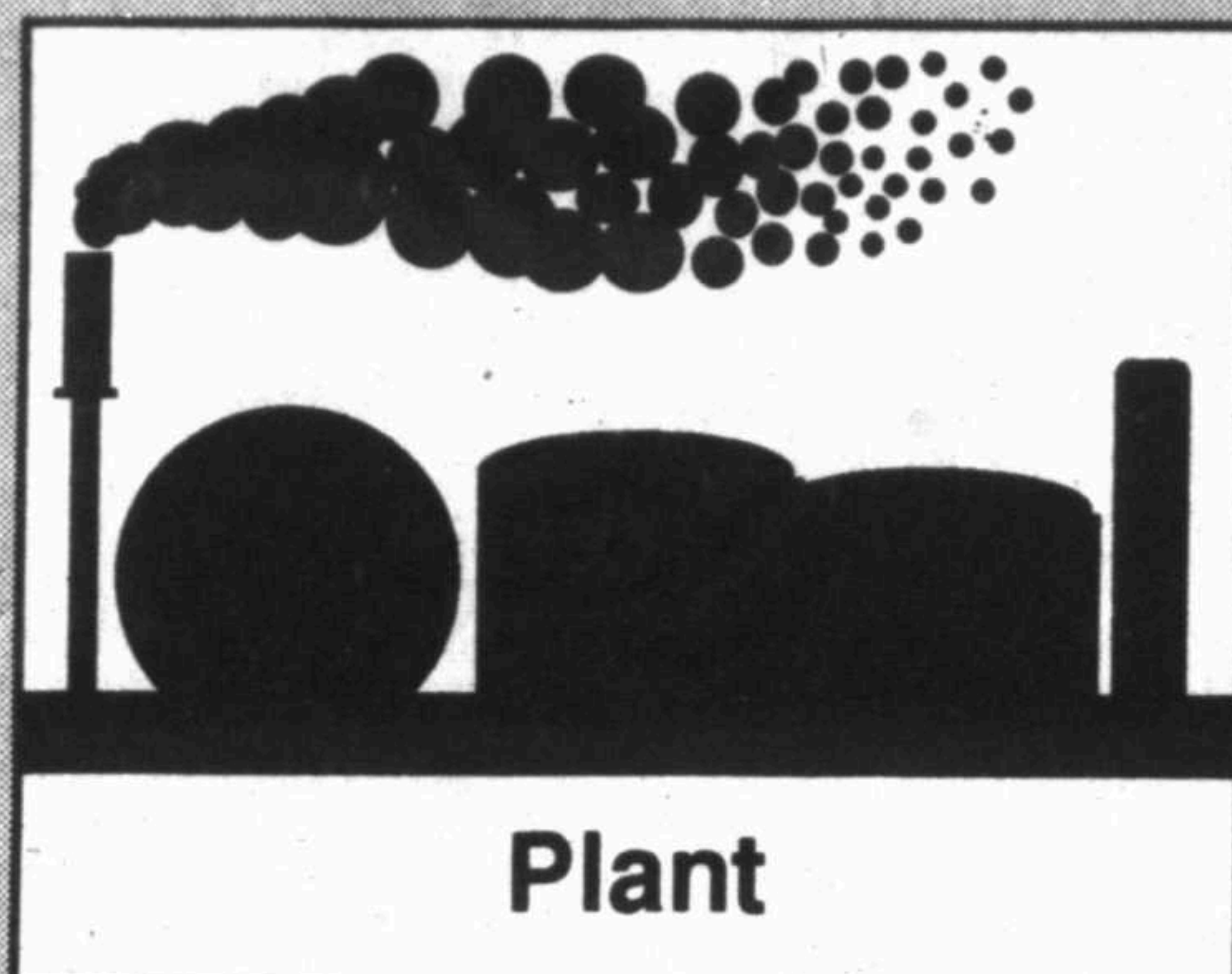
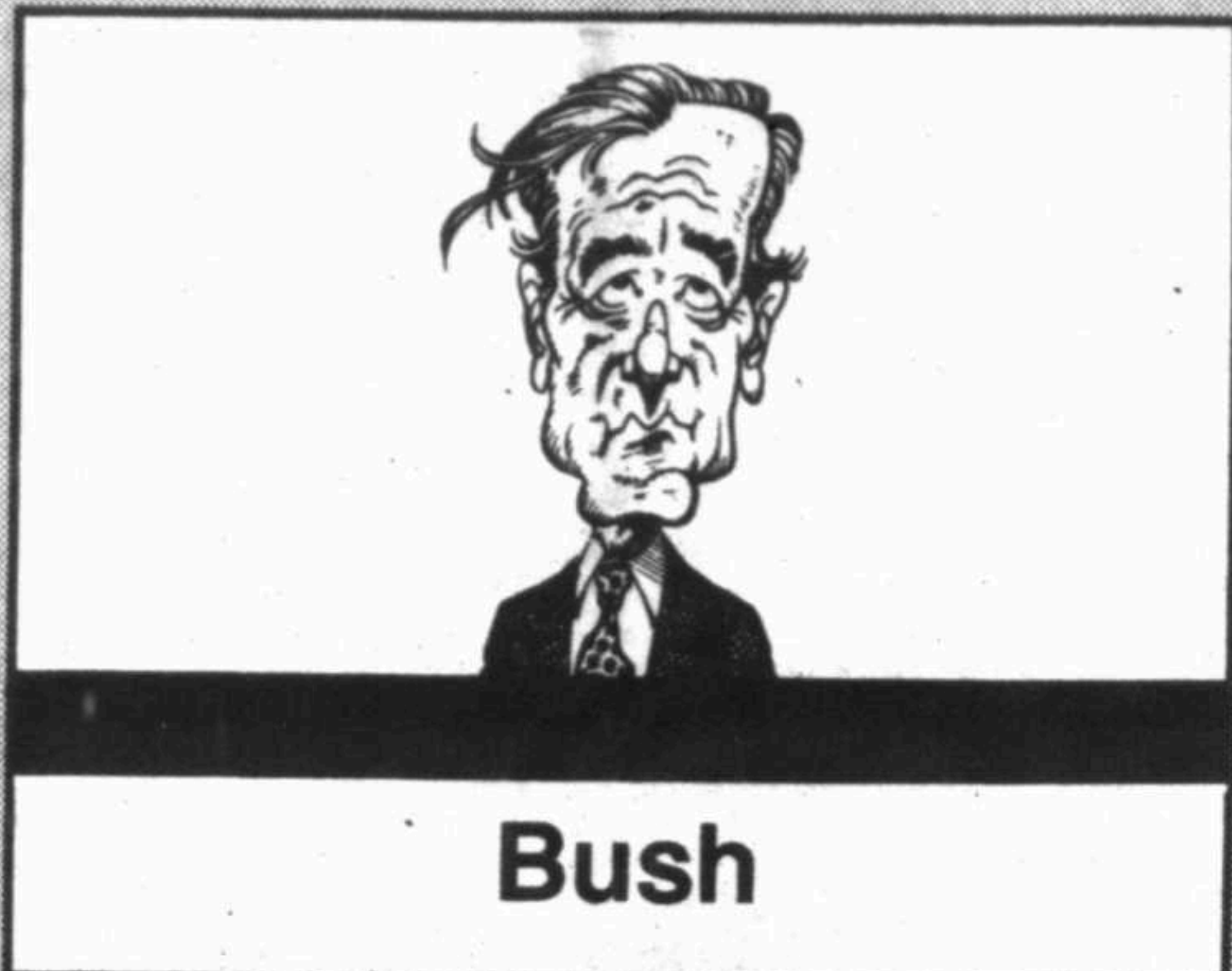
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The Permian Basin Silhouette Recognition Chart.



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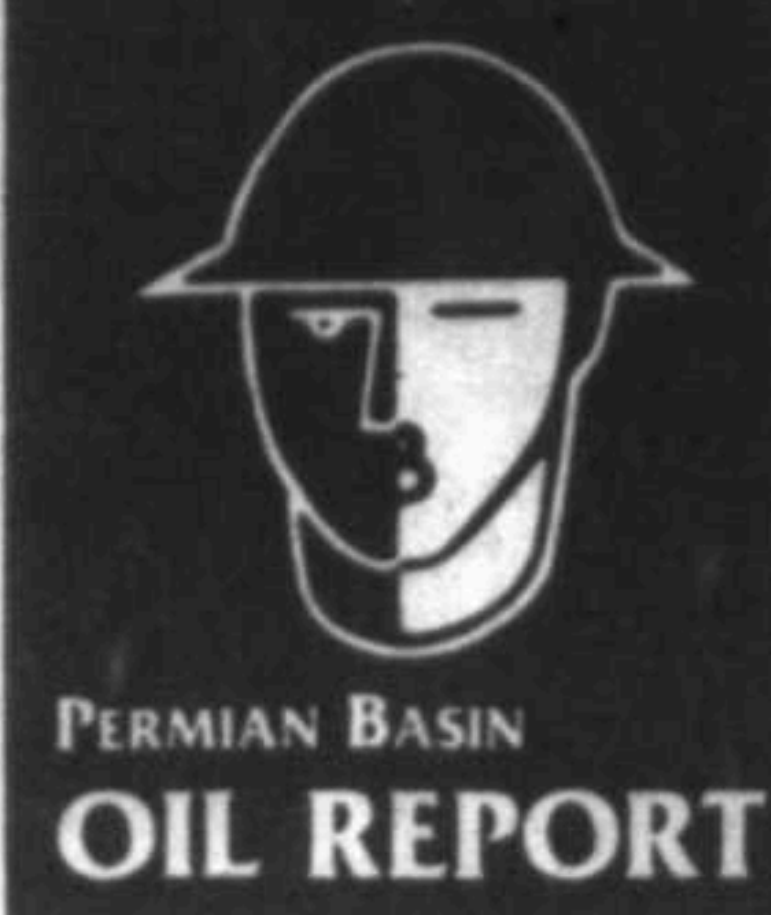


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OIL SHOW EDITION

Section **FF**
Midland Reporter-Telegram
Sunday, October 18, 1992

INSIDE

Two-day meeting

ODESSA — Geophysicists, geologists and engineers interested in contract or consulting work in the oil industry are encouraged to attend a workshop Oct. 22-23 at the Center for Energy & Economic Development.

The workshop is sponsored by the University of Texas Permian Basin Small Business Development Center, Midland College, Odessa College, Howard College and area chambers of commerce.

Cost for the workshop is \$25 per person and reservations may be made by calling 563-0400.

West Texas calendar

October

21-23 — Permian Basin Oil Show, Ector County Coliseum, Odessa, 376-1112.

21 — Barbara Mandrell in concert, 7:30 p.m., Chaparral Center at Midland College.

24 — La Boheme, Puccini's opera with full costumes, scenery and orchestra by touring company, Midland High School Auditorium, 684-4101.

24 — 3rd Annual Halloween Fun Run & Octoberfest, Good Samaritan Village, Odessa, 563-5707.

27 — Altrusa Annual Spaghetti Luncheon, Midland Center, 11:30 a.m.-1:30 p.m., 682-1970.

29 — Silver Screening: Abbott & Costello Meet Frankenstein, 2 p.m., Museum of the Southwest, 683-2882.

30-Nov. 14 — Rumors, Neil Simon comedy at Theatre Midland, 682-4111.

31 — Children's Pumpkin Party, Halloween festivities for youngsters, Museum of the Southwest, 683-2882.

31 — Holl-Daz, Alpha Phi Mu Arts & Crafts Show, 10 a.m.-6 p.m., Midland County Exhibit Building, 685-7819.

November

4-30 — Permian Basin: A State of Art, paintings & prints, Permian Basin Petroleum Museum, 683-4403.

7 — 5th Annual Women's Conference & Trade Show, Midland Hispanic Chamber of Commerce, 8 a.m.-5 p.m., Holiday Inn Country Villa, 682-2960.

7-8 — 30th Annual Gem & Mineral Show, Midland County Exhibit Building, 684-6352.

12 — New York City Opera Quartet, well-known opera excerpts by singers in costume with scenery, 8 p.m., Allison Fine Arts Auditorium at Midland College, 684-4101.

14 — Holiday Festival Auction, live and silent auction, refreshments, music benefitting the American Diabetes Association, ClayDesta Atrium, 570-1232.

14 — Annual Arts & Crafts Festival, benefitting Asbury United Methodist Church, Midland County Exhibit Building, 684-4588.

15 — Babes in Toyland, 1 p.m., Midland Center, (512) 929-3000.

17 — Dick Hyman in concert, jazz pianist presents solo concert, Permian Basin Petroleum Museum, 683-3145.

18 — Hensel & Gretel, 10 a.m., Midland Center, (800) 487-5007.

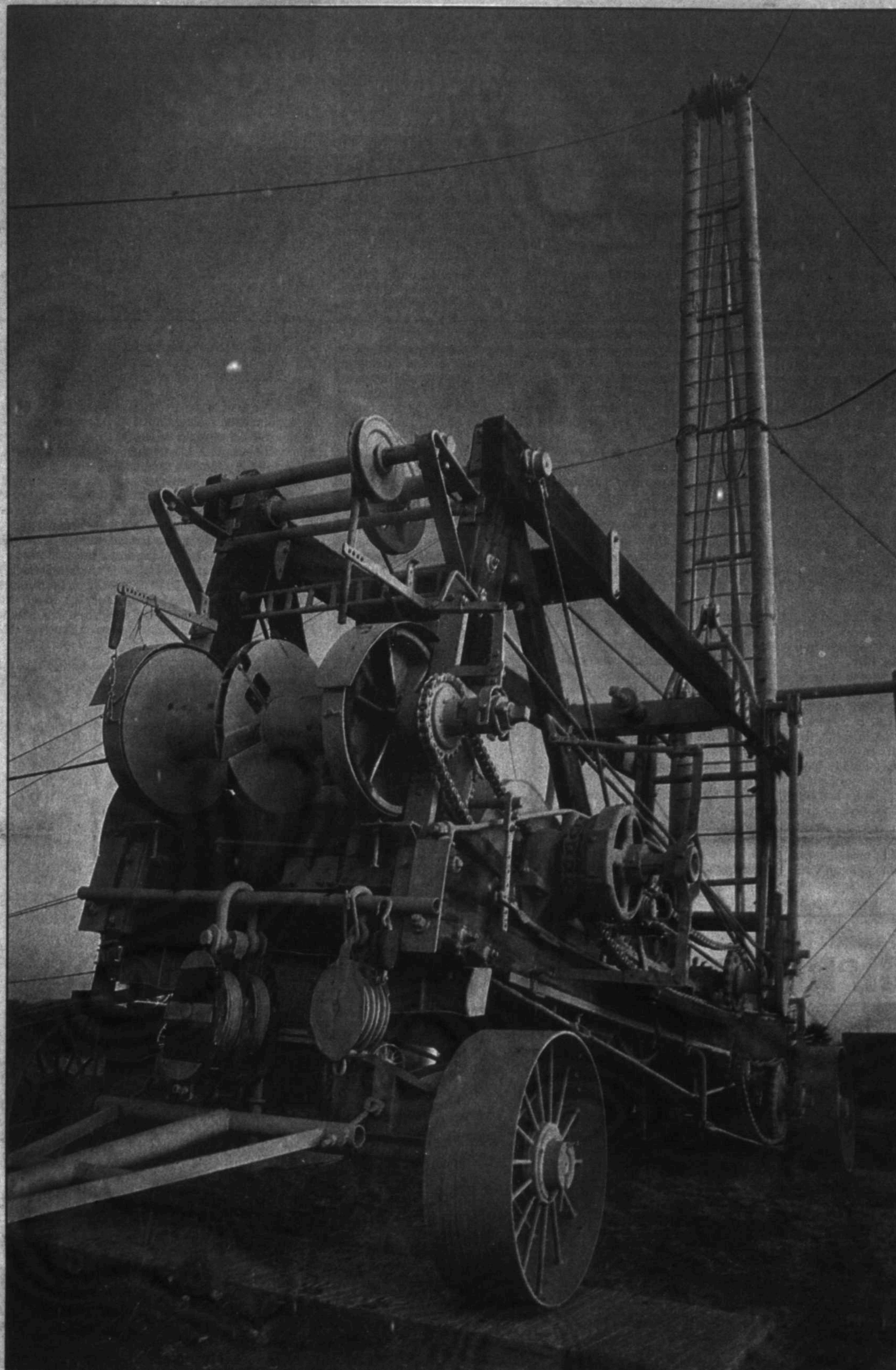
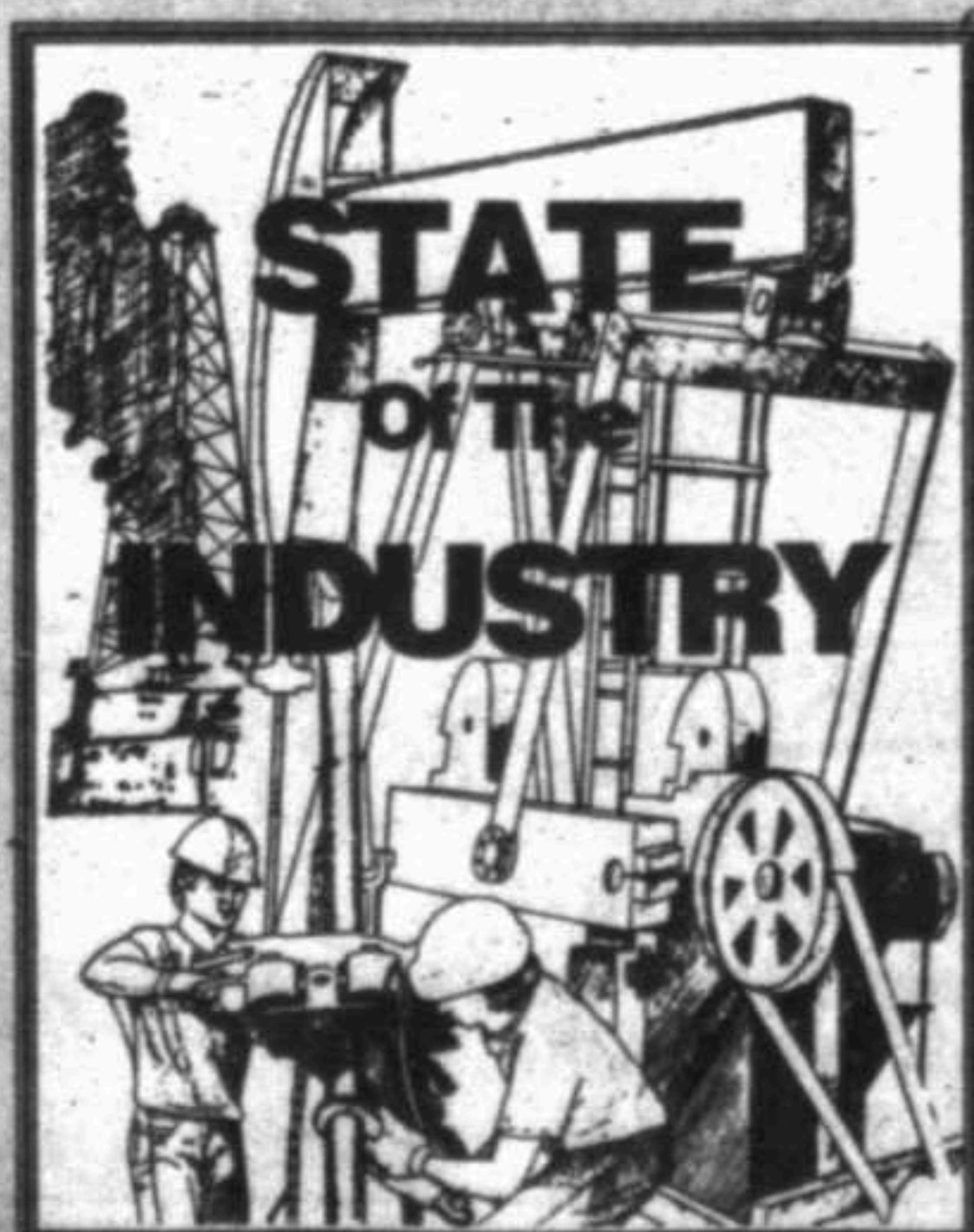
20-21 — The Nutcracker, performed by the Tulsa Ballet, Lee High School Auditorium, 683-5210.

24-Dec. 3 — New American Talent: The Seventh Exhibition, national exhibition in all media, Gallery 1114, 685-9944.

December

4 — Christmas Tree Lighting & Christmas Party, Centennial Plaza & Midland Center, 683-3381.

4-19 — A Christmas Carol, Dickens' classic at Theatre Midland, 682-4111.



Joe D. Williams/Reporter-Telegram

The vintage equipment on display in the outdoor oilpatch at the Permian Basin Petroleum Museum, stands in sharp contrast to the state-of-the-art goodies that will be on display at the Oil Show Wednesday through Friday.

Keeper of the past

By Johnnye Montgomery

The Permian Basin Petroleum Museum, Library and Hall of Fame has been in place long enough now that the landscape has a permanent look about it.

The trees lining the boulevard to the covered entrance have grown tall enough to offer some shade, and the purple sage hugs the sides of the building.

However, visitors to the museum may soon see some significant changes inside.

Director Ed Rowland says plans are in the works for changes and updates to several exhibits at the museum. He declined to elaborate on details, saying that plans are not sufficiently developed to make a statement, but that it is time.

"Some of our exhibits are 17 years old, and we are looking at the future, at upgrading and renovating," he said.

Meanwhile, the latest in temporary exhibits is almost too hot to handle — an exhaustive showing of the

Kuwait oil fires, called "Smoke and Fire in Kuwait." It will be on exhibit through Oct. 31.

The PBPM, a major tourist attraction for visitors from around the world, is also a vital link to the past for Permian Basin inhabitants.

It is the repository of our history, from our culture, our customs, and our values, to the way we shake hands and talk, write contracts, or bury our dead.

If we were suddenly struck with a universal devastating amnesia, we could find, on the PBPM's 40 acres and in its building, records of how we have lived, worshiped, raised our families, conducted business, fought and played, and all the changes time has wrought.

Most people who drive up to the museum don't have a clue what they're going to see once they've done the tour of the machinery.

They come for the close-up view of a working pump jack and other lifting equipment or spudder, cable tools,

Please see **PAST**/90FF

PAST: Oilpatch history kept

(From 89FF)

rotary rigs, or pulling equipment. The outside tour is a perfect introduction to the museum. Visitors need the limited time it takes to tour "the Oil Patch" to experience first hand what it's like to work outside in the weather in the Permian Basin.

The museum's interior alternates audio/visual programs set in motion by the touch of a button with hands-on displays, paintings, photographs and antiques.

The predominant theme, of course, is oil, beginning with life in the prehistoric Permian Sea, up to present technology and problems. Running as a strong counterpoint is the history of the Permian Basin.

There are standing columns of cores, carefully arranged just as they were brought out of the earth, labeled as to formation, depth, and geographical location. Cleaned and polished, they stand in easy access for the touching.

There are life-size displays of cable-tool drilling platforms, boom-town stores and sidewalks, complete with mannequins and old-time water and gasoline pumps. And in glass cases recessed into the walls at every turn are the tools they designed and used.

The Permian Basin Petroleum Museum, Library and Hall of Fame was dreamed up and funded by Permian Basin Petroleum Pioneers, principally George T. Abell and the Abell-Hanger Foundation.

It was officially approved and chartered in October 1967, with 536 members, as a not-for-profit educational and scientific institution. The first trustees met in 1968. They leased a temporary office in downtown Midland and hired Homer T. Fort, former chief of publicity for Mobil Oil Corp., as executive director.

The nucleus of the present museum, consisting of the lobby, lecture rooms, library, hall of fame and administrative office, with a basement for storage, was completed in 1975. A 9,000 square foot wing was added in 1979.

The world's largest collection of antique drilling and production equipment was formally dedicated in 1977. They call it "The Oil Patch." An additional display, the "Development of the Modern Pumping Unit," was added in 1989.

Paintings by artists Tom Lovell, John Scott, Frank Gervasi and Bill Brigle depicting the history and life of the people line the walls.

There are newspaper clippings and photographs that make events of the twenties as urgent and vital as this morning's newspapers.

The Archives Center 'covers the 58 counties in the Permian Basin, and is catalogued by 13 general subjects. Under the 'Petroleum' subject heading, there are 20 categories — in addition to the ones you expect, such as drilling, geology, law, and such, there are education, women in the industry, religion — poems, there are lots of poems about oil — and the photographs are retrievable by who, what, where, when, and by the photographer.'

— Archives Director Betty Orbeck

Displays of native American clothing and tools, bones, and fossils can also be found in display cases recessed into the walls in the south wing, along with John Chisum's saddle, an 18-foot windmill head, and tools and artifacts from early-day settlers.

There is a special wing devoted to the visual recreation of the prehistoric beginning of the oil industry, with a three-dimensional display of the phantasmagorical creatures and flora that had their being in the Permian age.

Throughout the museum, audio/visual displays explain and demonstrate the whys and wherefores of the oil industry.

The museum's latest acquisition in the way of educational aids is "Dr. Petro," a white-haired and mustachioed mascot in a hard hat who gives visitors information about the exhibits.

No repository of a people's history would be complete without its heroes. The museum's Hall of Fame is dedicated to people who served the industry.

Among honored persons whose portraits hang in the wing are numerous men and women involved in the oil industry, a doctor, a machinist, and a newspaper publisher. There are now 81 honored Hall of Famers, with more being added as they are chosen by a special Hall of Fame committee on the basis of their outstanding contributions to the development of the petroleum industry, or their having served as worthy examples to the industry.

Behind the show and tell and wonder of the museum, there is another attraction especially for the scholar and researcher. The Archives Center, like the museum, bears the indelible imprint of the Abell-Hanger Foundation.

The S.D. Myres research collection is the basis of the museum's archives, which also maintains extensive collections of other private

papers, company records, manuscripts, scrapbooks, movies, audio tapes and slides, maps, photos and ephemera.

There are more than 500 one-hour cassette tapes of interviews and movie films from as early as 1926.

The reference library contains more than 1,000 volumes, 60 reels of microfilmed Permian Basin newspapers, and 160 canned reels of aerial films.

Archives Director Betty Orbeck says her ambition is to "fill in the gaps" in our knowledge of the past. She feels the Archives Center accomplishes that goal.

"It covers the 58 counties in the Permian Basin, and is catalogued by 13 general subjects. Under the 'Petroleum' subject heading, there are 20 categories — in addition to the ones you expect, such as drilling, geology, law, and such, there are education, women in the industry, religion — poems, there are lots of poems about oil — and the photographs are retrievable by who, what, where, when, and by the photographer."

Orbeck estimates that there are 15,000 photographs and negatives. A catalog of the photos is now in progress.

Orbeck has six volunteers who, she says are "the brightest people in the world."



The Texas League AA Midland Angels packed in record attendance in 1992.

City offers action-packed lineup

EDITOR'S NOTE: The following article was reprinted courtesy of CityLife, the official magazine of the Midland Chamber of Commerce.

Midlanders, as well as visitors to the city, have a wide range of activities to keep them busy... from morning until night.

For five months a year, the Midland Angels, a Double A minor league team, entertain large crowds during home stands at the Midland Angels Stadium, located at Loop 250 and Lamesa Road.

As if the hot dogs, popcorn and fresh air, along with the action on the field were not enough, the team's front office offers numerous promotions throughout the season to draw the family to the park.

The annual fireworks display — generally held on July 4 when the team is in town — is typically one of the most popular nights of the year.

But it is by no means the only one. In fact, according to Monty Hoppel, the team's general manager, attendance for the just-concluded season hit an all-time high, 195,829. That gave the Midland club the No. 1 attendance per capita for all 26 Double A teams in the nation.

One of the most well-received changes at Angels Stadium, Hoppel said, was the addition of 1,000 seats and expansion of both picnic areas and restroom facilities to almost double last year's capacity.

But for Midlanders who are looking for action, the ballpark is not the only place to be.

During the summer months, Midlanders flock to the historic Yucca Theatre for the zany Summer Mummer's production. The melodrama keeps theatergoers on their feet, as they hiss the villain, cheer the hero and practice their throwing. But

instead of a baseball, it's popcorn that is hurled toward the stage.

It proved particularly popular this year. More than 11,700 people attended the 31-day performance at the Yucca in downtown Midland. A record 31,000 bags of popcorn were sold and an average of 400 people a night combined to purchase almost \$6,000 of novelties, such as deely boppers, mylar wigs and arrows-through-the-head.

Roughly 250 to 300 volunteers worked on the show, doing jobs such as tending bar, token and novelty selling, acting, curtain pulling, house managing, prop running, filming and running lights and sound.

The summer of 1992, according to Mummer officials, was the second best year ever for the production, topped only by 1991 figures.

But there is even more for area resident seeking outdoor fun and action.

There's Water Wonderland, for example.

During its recently concluded 96-day summer season, the park was visited by 56,000 people. Eighty to 85 people were employed at the facility as lifeguards, ride attendants, maintenance workers, grounds keepers, office personnel, ticket sellers and ticket takers. The park is located between Midland and Odessa on U.S. Highway 80.

Historically, the most popular rides are the Wave Pool, the Rampage and the tube slides.

It is not unusual to see golf fanatics out on the links in the middle of the winter, and one of the most popular places to play is Hogan Park, a 27-hole municipal course.

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The Blue Gem Shop & Gallery

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A full line of the world's finest mesquite smoked meats including smoked turkeys, beef and pork tenderloin and canadian bacon.

★ FOR THE OFFICE ★

Let the Ranch House cater your next office party with our special mesquite-smoked meats and fresh bread! We will deliver to your office just what you need to make your office party or get-together something to remember. Prices are as follows:

\$4.10 per person for just sandwiches
\$4.99 with tea
\$5.99 with dessert

We will come in and set up a tray of our smoked meats along with a fresh vegetable tray and homemade bread. We also furnish mayonnaise and mustard, napkins and plates, and anything else to make your get-together just right!

*For 10 or more.

HONEY GLAZED HAMS
Half or Whole
Small Halves - 6-7 lbs.
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Party Trays available!

Large Meat & Cheese serves 20-25 people.....	\$4.95
Small Meat & Cheese serves 10-15 people.....	\$4.95
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Large Vegetable serves 20-25 people.....	\$4.95
Small Vegetable serves 10-15 people.....	\$4.95

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• Gift Boxes Available for Shipping
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Past

EDITOR'S NOTE: The following article was reprinted courtesy of CityLife, the official magazine of the Midland Chamber of Commerce.

The complaint often, usually search of action to do here," the But is it valid? Not when you around you. Just diate vicinity land, a person time has many Scattered thr land area are just waiting to b finds such as a house that is a ister of Histori tunnel that take millions of year \$3.3 million thea much, much mo The intrepid want to start in town. A historio be arranged th Midland Count includes down markers. Midl well and black ornate, restore For informatio Stewart Haley l or the Midland Society, 682-293

Also downto land's first hom stored by the M torical Society. Medallion Hom and has one of n only) wine cella equipped with was necessary fo household at the ry — lye soap, making rats a Tours are by a call 682-2931.

Just west of t is the Museum o 1705 W. Missour ogy, a children's tarium, a museu ing exhibits are is on the Nationa torical Places. Exhibits may

If you

You'll find of great sportswear Freeman, Polo, Rob Columbia

58

Pastimes abound for visitors, locals

EDITOR'S NOTE: The following article was reprinted courtesy of Cityline, the official magazine of the Midland Chamber of Commerce.

The complaint has been uttered often, usually by teen-agers in search of action. "There's nothing to do here," they say.

But is it valid criticism? Not when you take a good look around you. Just within the immediate vicinity surrounding Midland, a person looking for a good time has many choices.

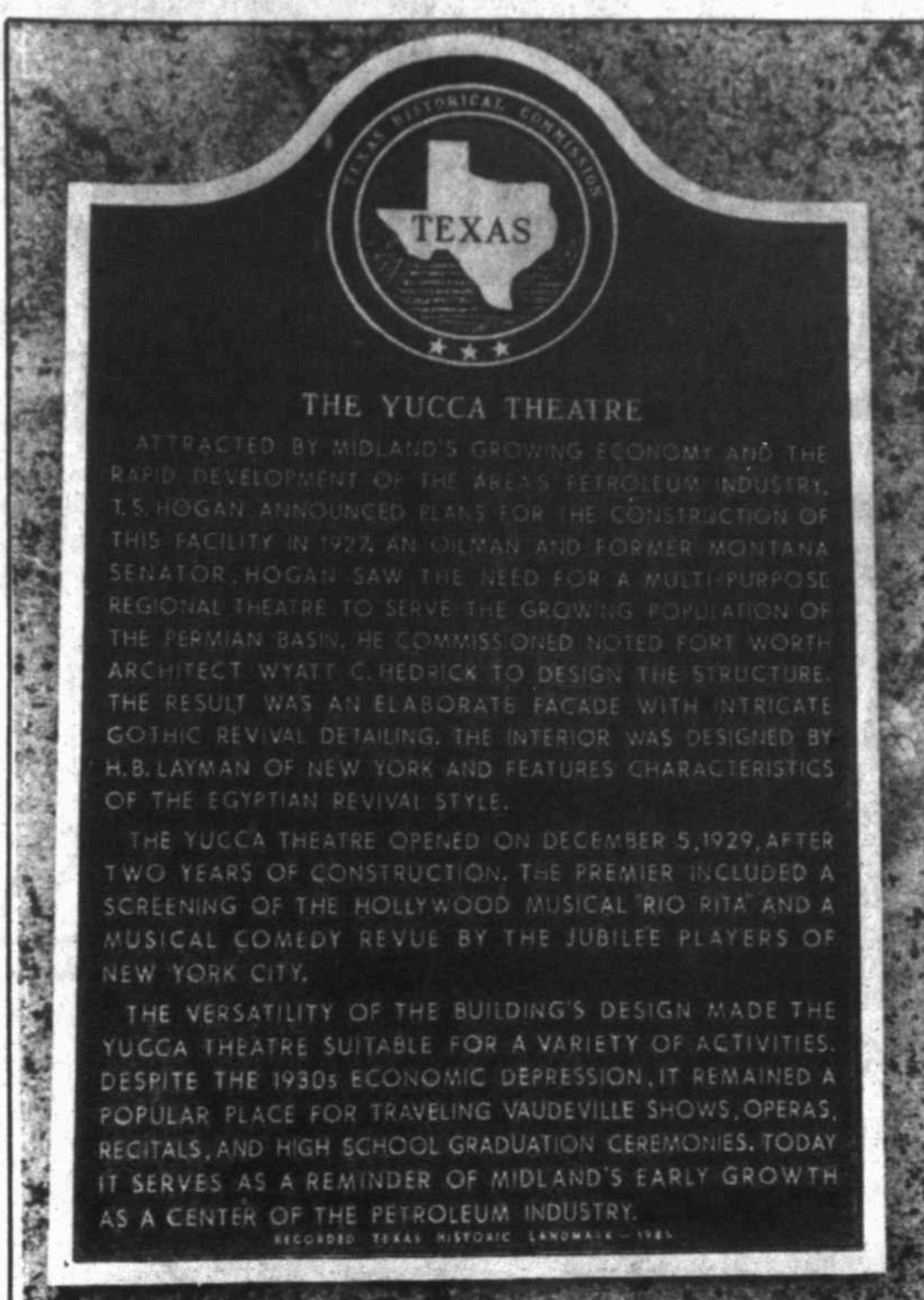
Scattered throughout the Midland area are fascinating gems just waiting to be discovered. Rare finds such as an art museum in a house that is on the National Register of Historic Places. A dark tunnel that takes the visitor back millions of years to prehistory. A \$3.3 million theatre complex. And much, much more.

The intrepid traveler might want to start in the heart of downtown. A historic walking tour can be arranged that begins at the Midland County Courthouse and includes downtown historical markers. Midland's first water well and blacksmith shop and the ornate, restored Yucca Theatre. For information, call The Nita Stewart Haley Library at 682-5785 or the Midland County Historical Society, 682-2931.

Also downtown is one of Midland's first homes, completely restored by the Midland County Historical Society. The Brown-Dorsey Medallion Home was built in 1899 and has one of Midland's first (and only) wine cellars. It is completely equipped with everything that was necessary for the running of a household at the turn of the century — lye soap, hair catchers for making rats and bed warmers. Tours are by appointment only, call 682-2931.

Just west of the downtown area is the Museum of the Southwest at 1705 W. Missouri. Art and archeology, a children's museum, a planetarium, a museum shop and traveling exhibits are all in a home that is on the National Register of Historic Places.

Exhibits may include outstand-



ing Southwestern art and traveling shows. Monthly House Concerts feature musicians whose performances range from new age to old folk. The children's museum provides a hands-on experience, exploring such subjects as kite making, flying and painting.

The Planetarium presents sky shows on Tuesdays at 7:30 p.m. Docented tours of the museum are available by reservation, self-paced tours at any time. Call (915) 683-2882. Open Tuesday through Saturday, 10 a.m.-5 p.m.; Sunday 2-

5 p.m. No admission charged.

Located on Interstate 20, just south of downtown Midland is the Permian Basin Petroleum Museum. Docented tours let visitors examine rock samples from thousands of feet beneath the earth's surface and travel through a dark tunnel back to a time when all of West Texas was covered by the vast Permian Sea.

According to museum officials, one of the most popular areas of the museum is the art gallery where the richly evocative paint-

ings by Tom Lovell tell the story of the early days of the Permian Basin.

However, almost as many visitors say their favorite site is the wheel of fortune, where they take their chances on drilling an oil well. Open Monday-Saturday from 9 a.m. to 5 p.m., and on Sunday from 2-5 p.m. Admission charged.

Harry Spannus, executive director of the Permian Basin Petroleum Association, offers an in-depth tour of the petroleum industry upon request. However, arranging to taking visitors on to working drilling rigs and oil properties does take time, so two weeks notice is requested.

On the rigs visitors meet the roughnecks and the roustabouts, the drillers and mud loggers watch pipe "making the trip" and spend time "in the doghouse." Call 684-6435.

The St. Lawrence Winery tour can make believers out of the most hardened skeptics. Sampling Texas wines proves that grapes from semi-arid lands rival wines anywhere in the world. Steady growth has made this winery a winner in West Texas. This is complete with a sample or two. Call at least two weeks in advance, 397-2226.

Please see TO DO/94FF

INTRODUCTORY COURSE ANNOUNCEMENTS

Transactional Analysis for Management

Permian Basin Graduate Center
Introductory Session
7:00 P.M. Tues. Oct. 20, 1992
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Pictured Left to Right: Jacque Holliman, Dana McKay, Georgann O'Connor, Andrea Tillet.

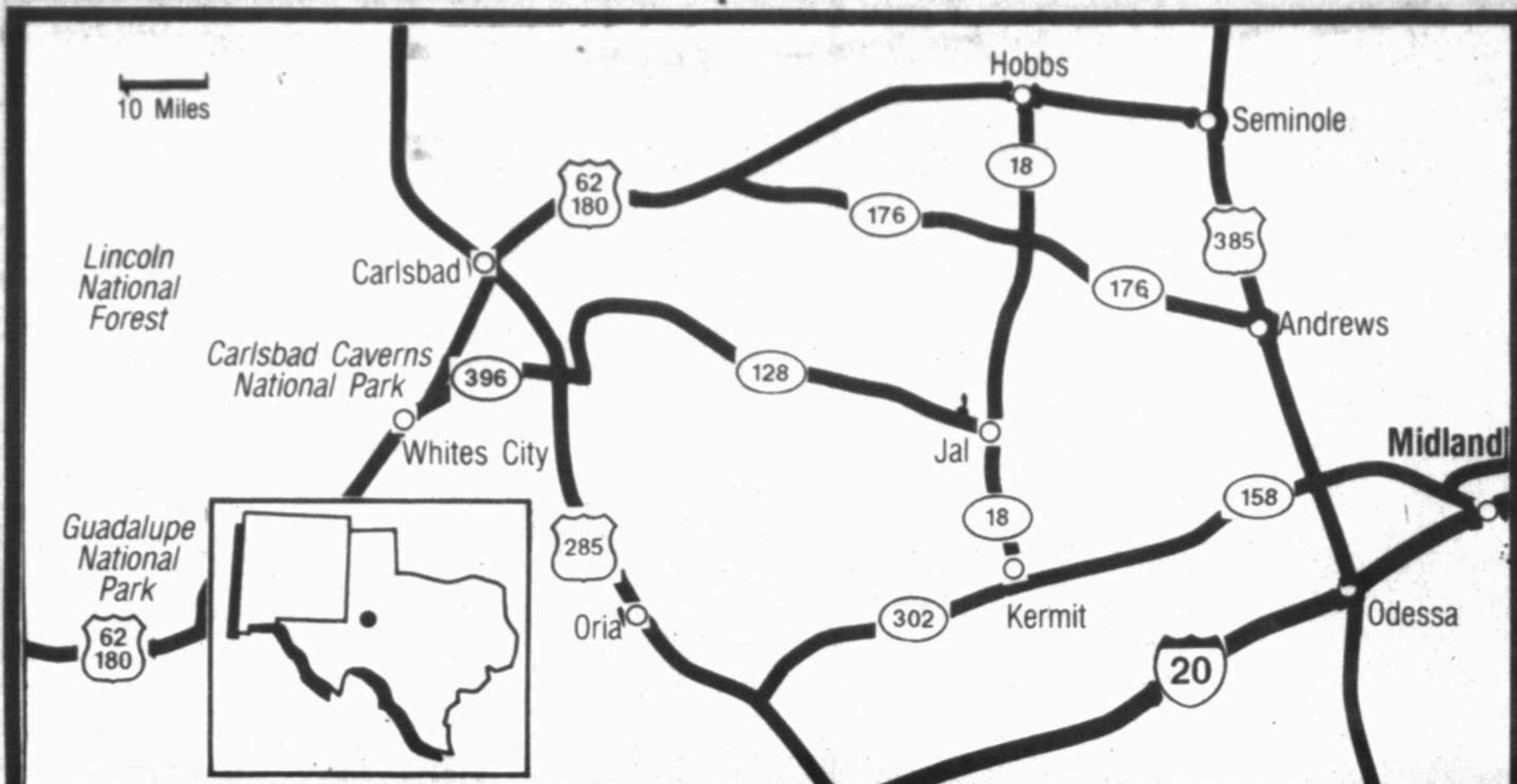


Rig Courtesy TMBR Sharp, Photo by A Shot In The Dark.

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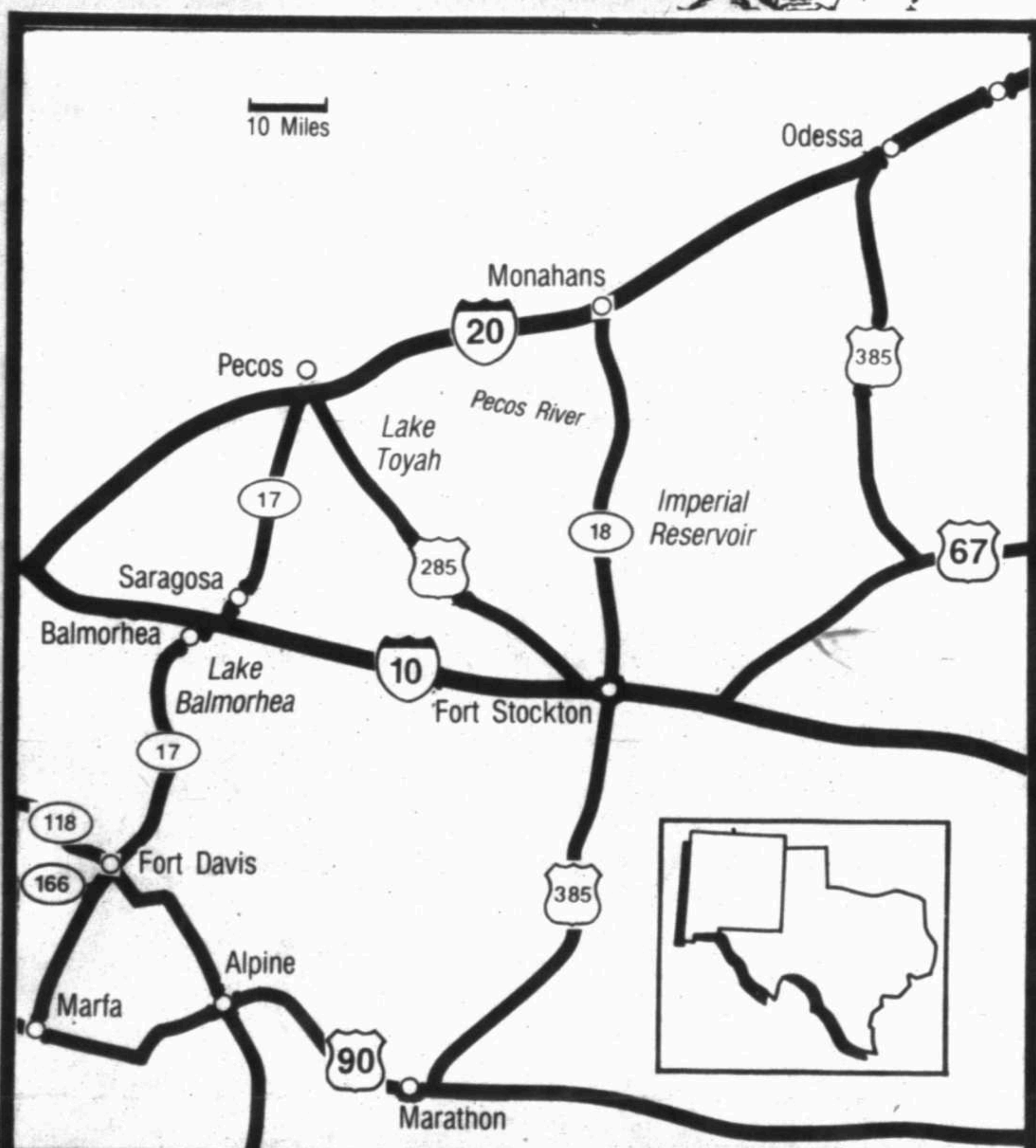
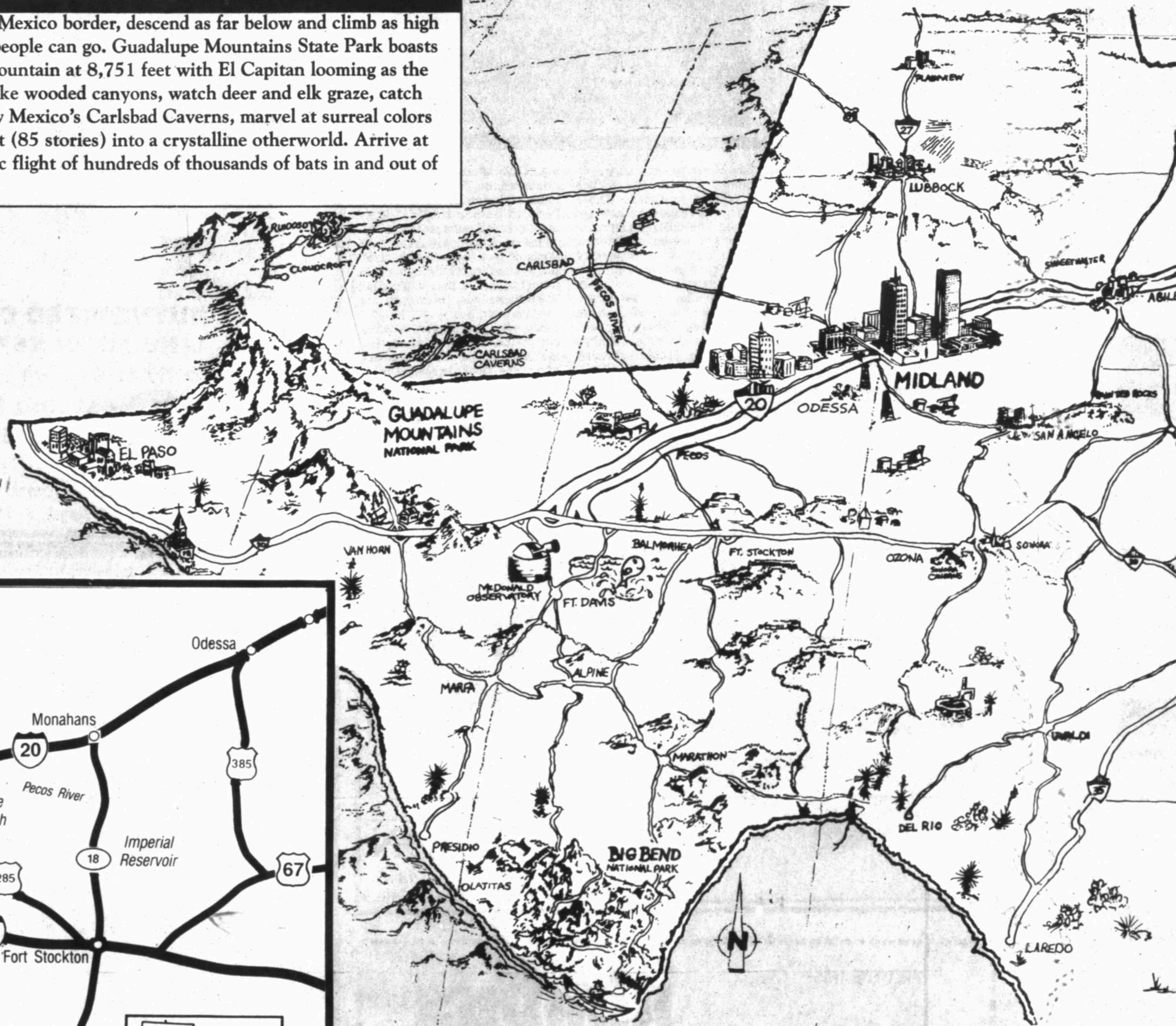
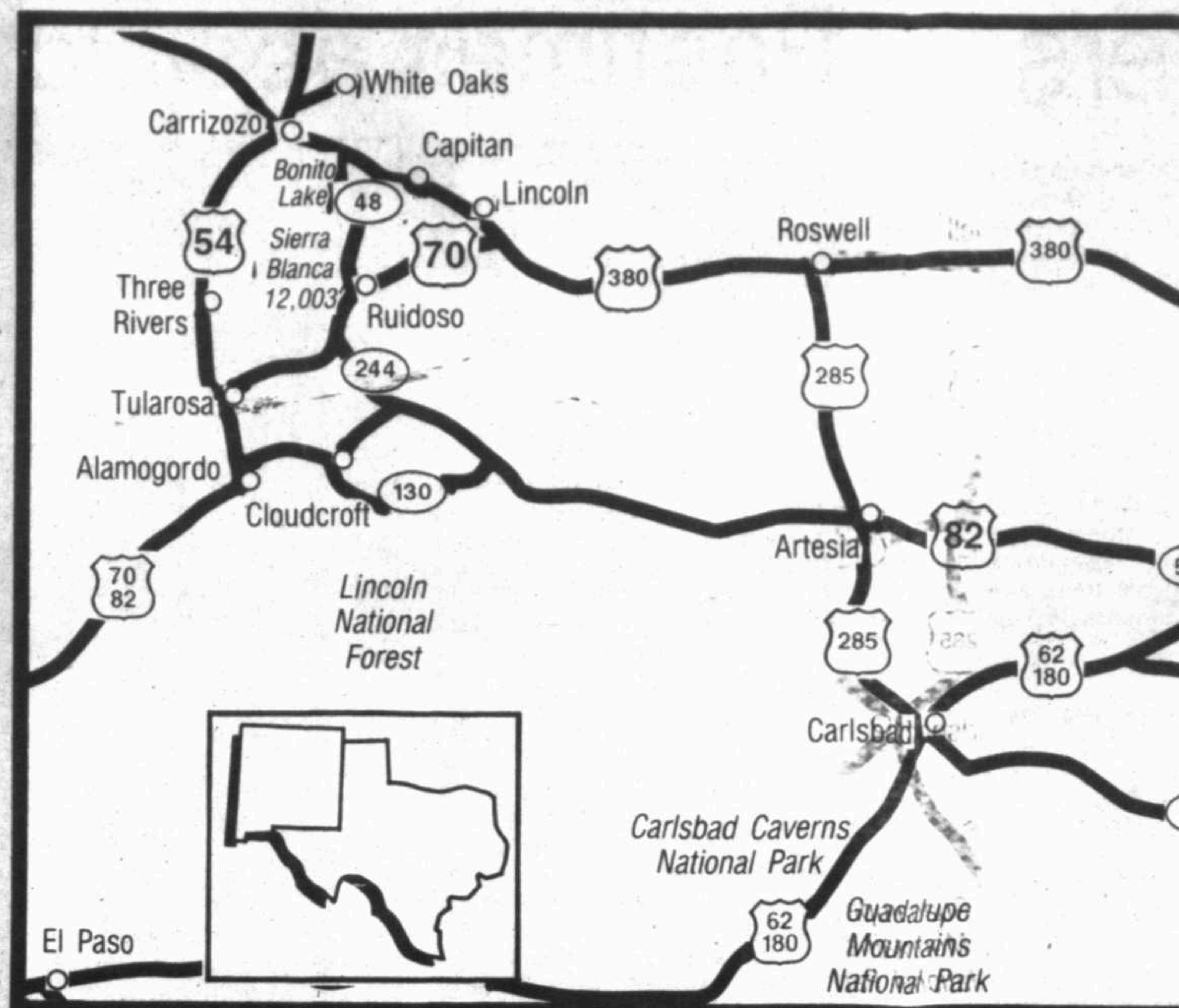
**Call Us Today...
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OCT 18 1992



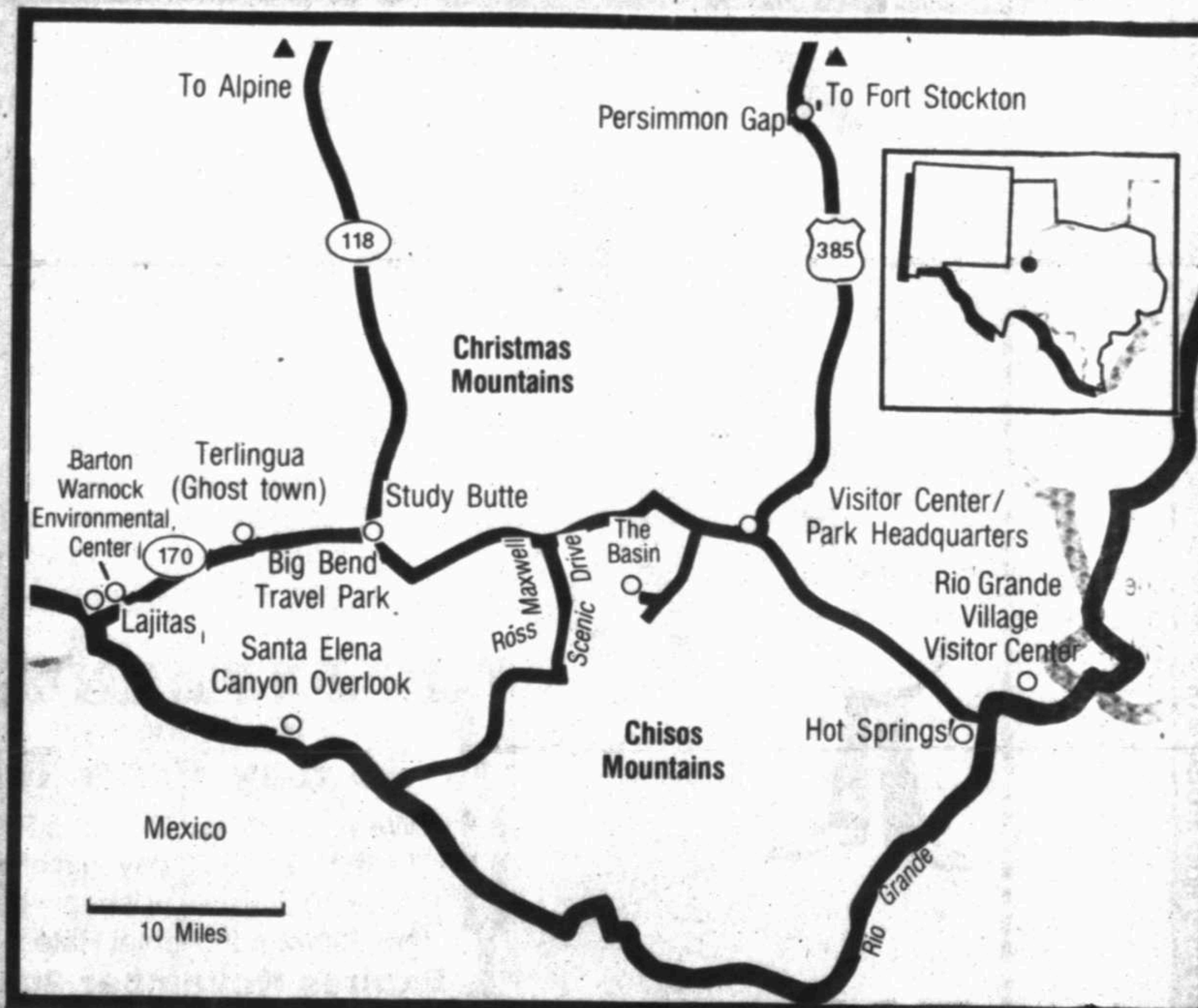
CARLSBAD CAVERNS/ GUADALUPE MOUNTAINS

On the west Texas-southern New Mexico border, descend as far below and climb as high above the southwestern desert as people can go. Guadalupe Mountains State Park boasts Guadalupe Peak, Texas' highest mountain at 8,751 feet with El Capitan looming as the park's distinguishing landmark. Hike wooded canyons, watch deer and elk graze, catch trout in a spring-fed creek. In New Mexico's Carlsbad Caverns, marvel at surreal colors and shapes as you descend 755 feet (85 stories) into a crystalline otherworld. Arrive at daybreak or sunset for the dramatic flight of hundreds of thousands of bats in and out of the cave.



FORT DAVIS/TRANS-PECOS

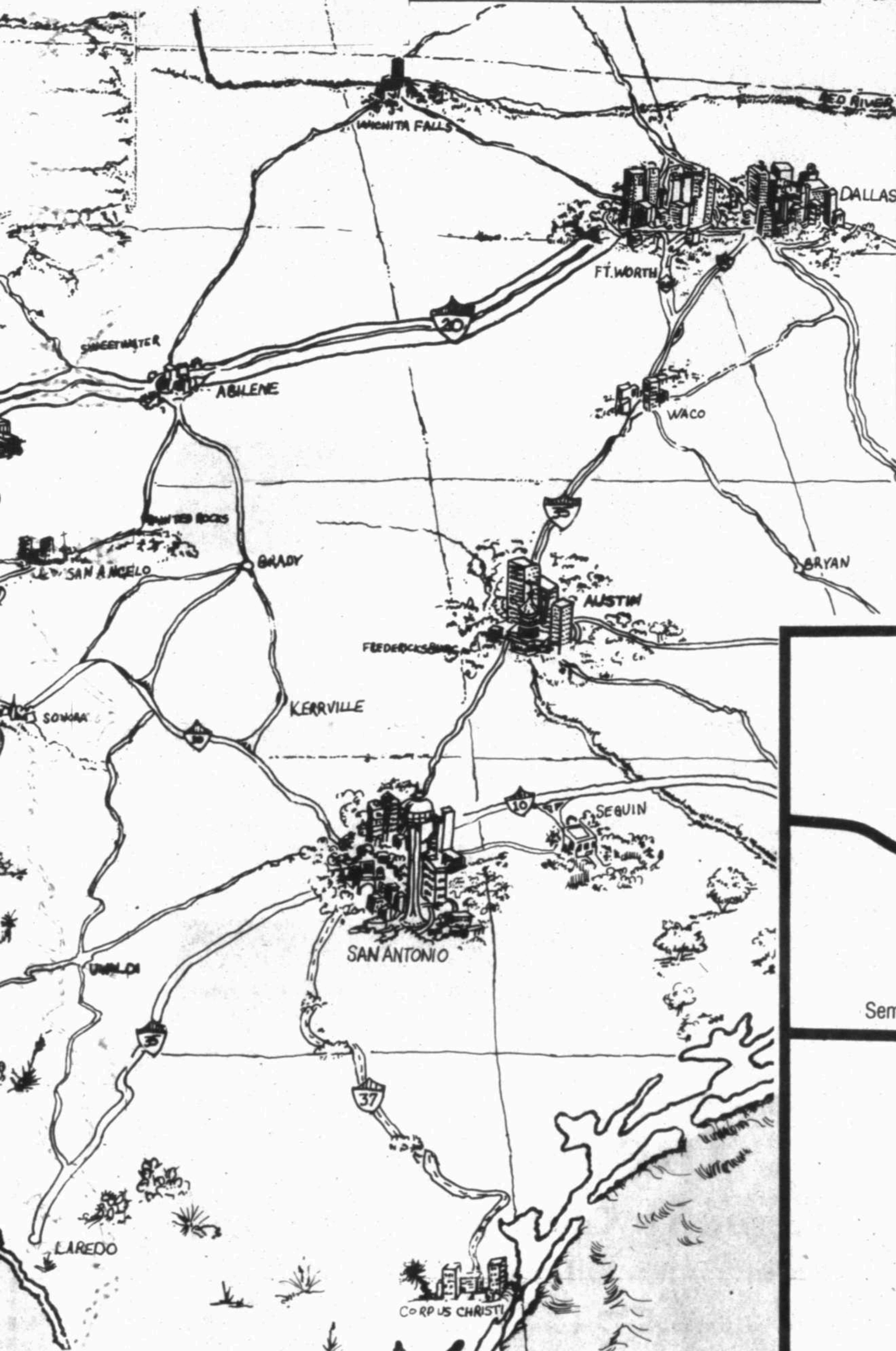
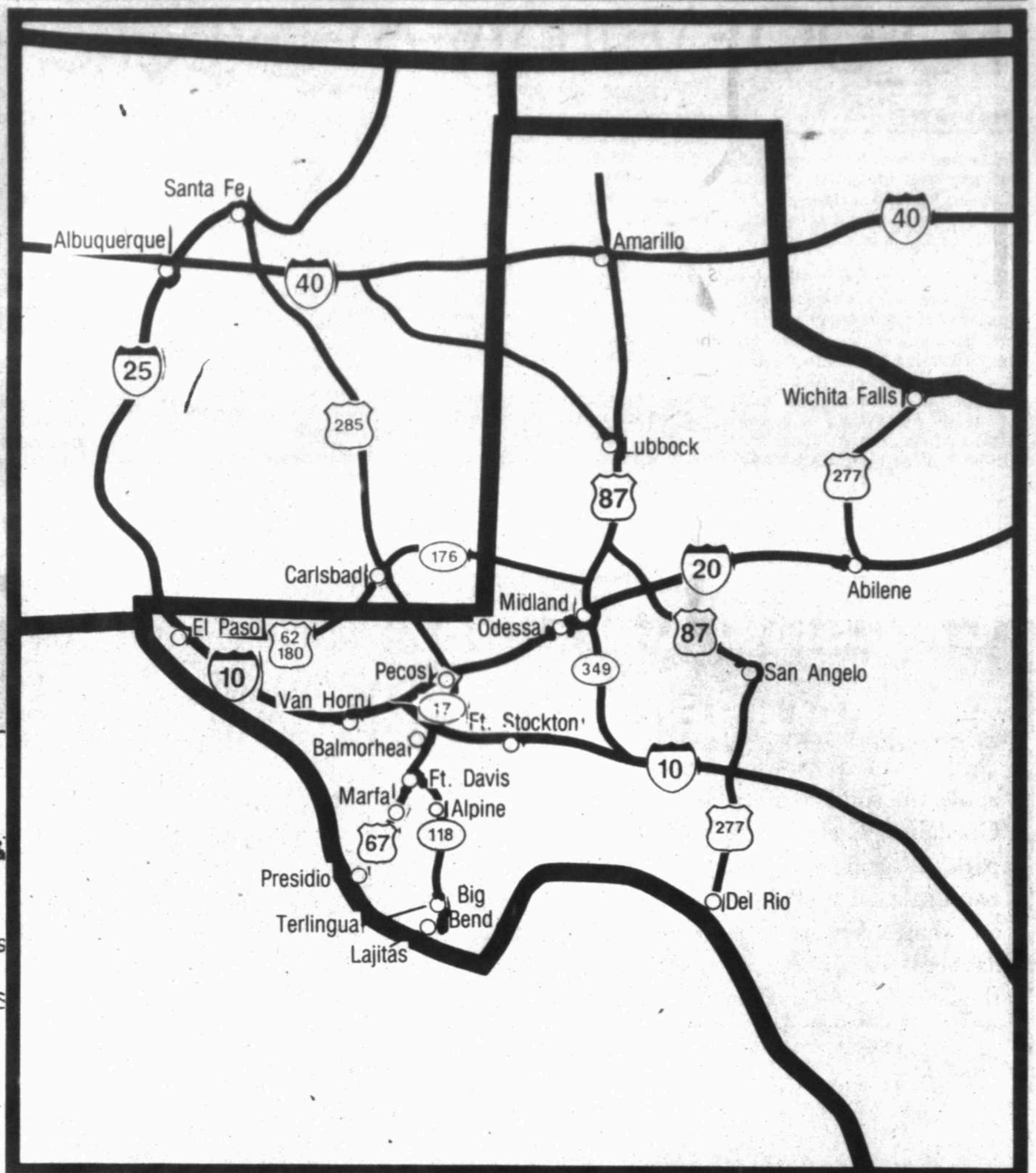
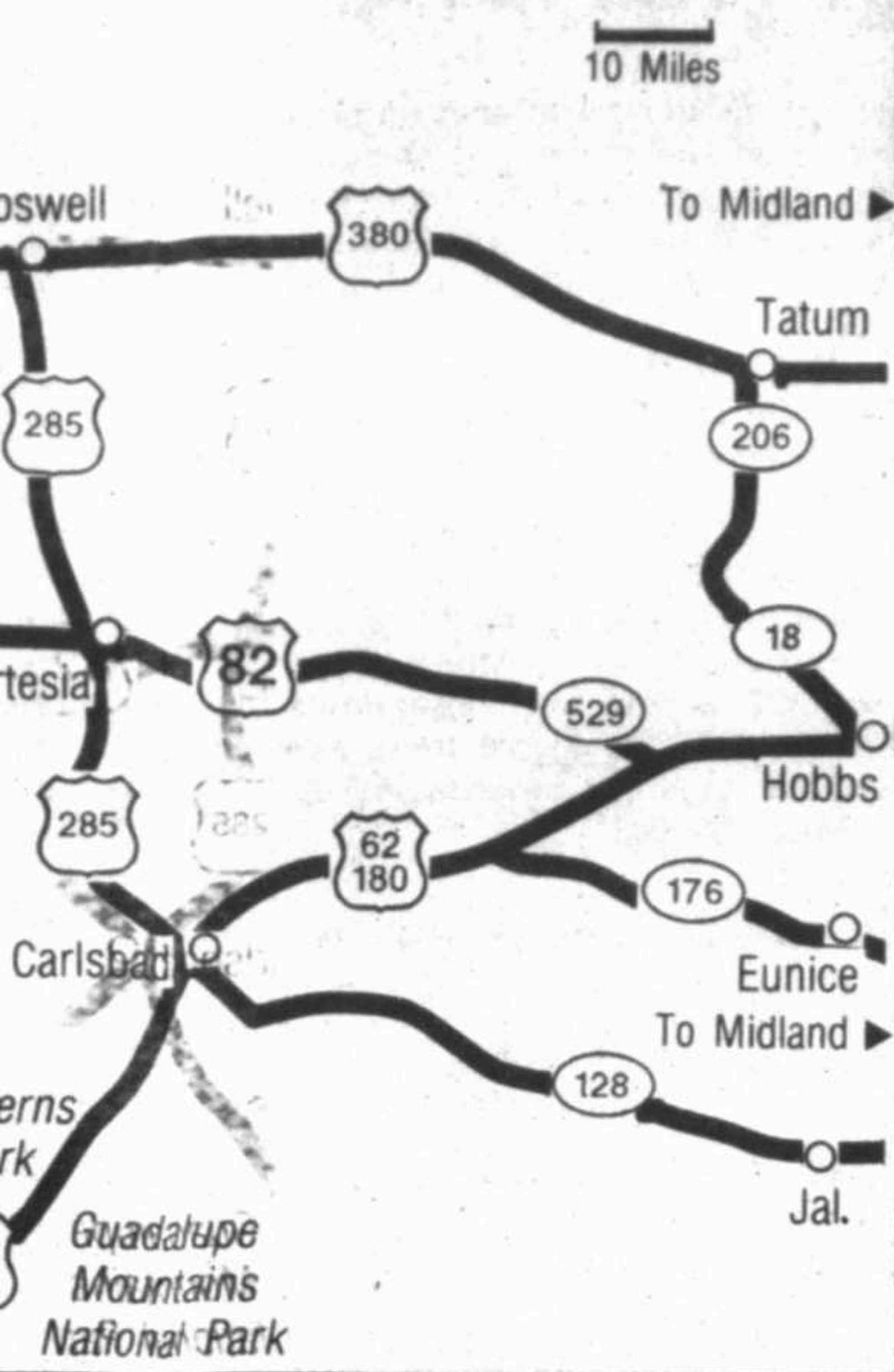
Southwest of Midland, Monahans Sandhills State Park with its legend of lost wagon trains and gold, beckons visitors to climb and experience the shifting sands. In Pecos, tour the old hotel and saloon preserved as a museum, feel the holes left by ricocheting bullets and visit a gunfighter's grave. Swim in Balmorhea's refreshing spring-fed pool and drive through the Davis Mountains to restored Fort Davis where ghostly sounds of a long-ago military retreat fill the parade ground. Star gaze at McDonald Observatory then sleep at a working dude ranch, a romantic lodge or under the skies at your mountain campsite.



Big Bend
Texas re
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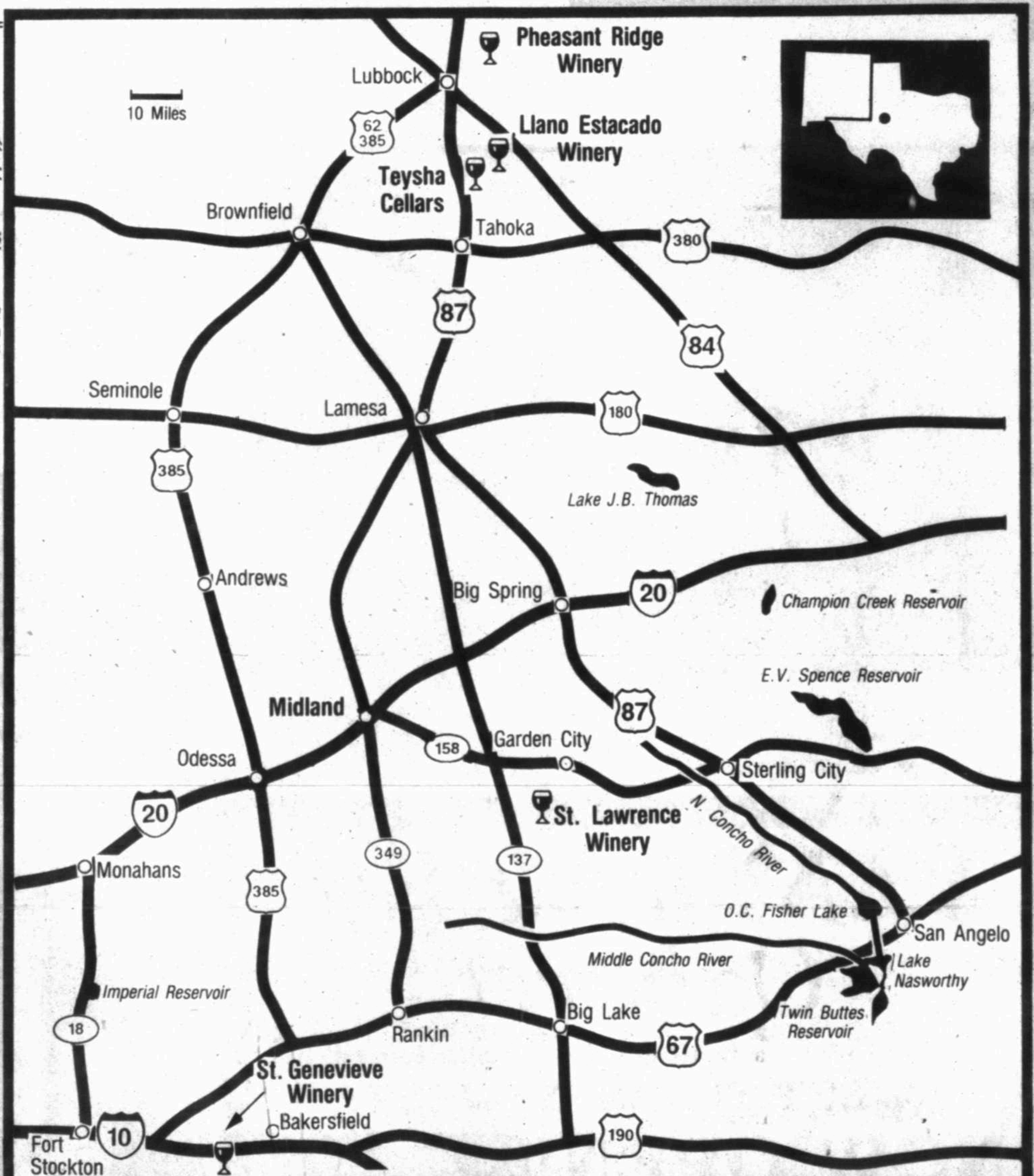
NEW MEXICO HIGH COUNTRY

With your first breath of clear mountain air, scented with pinon pine or the glimpse of a full moon over Sierra Blanca, you will know why New Mexico is called the "Land of Enchantment." Ski soft powder slopes and "surf" White Sands' gypsum dunes. Follow the thoroughbreds and quarterhorses at Ruidoso Downs and bask in the gold of aspens in the autumn. Visit Smokey Bear's museum, explore a ghost town and the village where Billy the Kid made his last escape. Stay in a mountain cabin, rustic lodge or lakeside resort.



BIG BEND

Big Bend National Park, where Texas rests its elbow in the legendary Rio Grande, astounds visitors with its contrasts and vast, unspoiled wilderness - massive mountains, exotic cacti, deep canyons and cascading water. Driving on the paved or primitive roads or hiking on the backcountry trails, you will see exotic wildlife and rare birds. Take an exciting float trip through towering canyons or explore the backcountry on horseback or by jeep. Play a round of golf or just soak up the sun and nature's beauty, then bed down in your RV, an old west-style resort, or the National Park Lodge. Visit between September and May for the best weather.



WEST TEXAS WINE COUNTRY

West Texas is earning a name in international wine circles. More than a million gallons of wine are produced in the rich, warm country between Fort Stockton to the southwest and Lubbock to the north. Visit the St. Lawrence tasting room in Midland, then take an easy drive to area wineries where one can tour lush grape arbors, experience the wine-making process, shop for unique gifts and taste these internationally acclaimed, award-winning Texas wines.

OCT 18 1992

TO DO: Variety of experiences await adventurers

(From 91FF)

A tasting room, located in Midland just west of Midkiff on the south service road of Interstate 20, is open 1-8 p.m., Monday through Friday, and 1-6 p.m. on Saturdays, 697-5909.

Midland Community Theatre's officials will take visitors behind the scenes of this \$3.3 million complex. She guides tours through two performing areas, into the scenic and costume shops, past dance and children's acting classes, into the theatre library and up in the lighting booth. Theatre tours are offered to groups of all sizes and

ages. Special interest talks on subjects such as stage make-up and lighting design can be arranged upon request. Please call 682-2544 for reservations Monday through Friday, 10 a.m. to 5 p.m.

Midland County Extension agents offer a seasonal tour of home gardens. Visitors see how indigenous plants mix with exotic imports in gardens that make the most of Midland's sunny climate and mild temperatures. If you're wondering why mesquite thrives and rhubarb withers in West Texas, this is the tour for you. It is requested that you give two weeks

notice to make arrangements. Call 687-1351. They will provide area farm tours upon request.

West Texas has produced some champion horses, including Alysheba, winner of the Kentucky Derby and the Preakness. A tour of the Winnermaker Farms offers a look at local horse raising and breeding and can accommodate up to 30 people. Officials can help you witness one of the most beautiful sights in the world — a galloping herd of thoroughbreds. Call 563-0531 or 687-1351 for reservations.

An astonishing number of India-

napolis 500-style automobiles have been built in Midland. Hap Sharp and Jim Hall originated their innovative Chaparral design in Midland's Rattlesnake Raceway.

Internationally ranked drivers including Danny Sullivan test their formidable machinery here. For a tour of automotive designer Franz Weis' facility, call 563-4135 two weeks in advance.

More than half a million pieces of mail go through the Midland postal facility each day. Located at Midland International Airport, is the largest postal facility between Fort Worth and Phoenix, Ariz.

Tours show visitors how the post office handles mail from 62 West Texas cities and 23 counties. If you really want to see a letter fly, you've got to see it go through a zip code machine. Call 560-5057, or 560-5105.

The Sibley Environmental Center at 1307 E. Wadley provides a respite from the pavements of the city. A 4,200-foot easy-walking trail leads visitors past a pond, through the home turf of lizards, turtles, coyotes, foxes, possums, rabbits and squirrels to shady benches just right for observing or enjoying a quiet picnic lunch.

The animals are not caged, but

live in their natural environment untamed and untouched. Depending on the time of the year, visitors might see more than 30 kinds of wildflowers and 20 species of birds.

The trail is open for self-paced tours at all times. Early morning hours are best "because it's cool and you can see more critters."

A brochure which explains the interrelation of West Texas species is helpful on a self-guided tour and is available from the Sibley office, 684-6827, or the soil conservation office, 684-8722. Group tours and guided tours can be arranged by calling 688-9632.

Don't be the last to find out what's happening.

Read the
Midland Reporter-Telegram



SELF-ADHESIVE BREAST PROSTHESIS OFFERS AN ALTERNATIVE TO IMPLANT SURGERY!

Discrene, a unique breast form that attaches directly to the body, uses an advanced skin friendly adhesive that allows it to move in harmony with the rest of your body.

The Discrene breast form is made of high-quality silicone gel, encased in a skin-like material with a unique design. Since it is worn directly on the body, this eliminates the need for special bras. It can be worn without a bra, while swimming, showering and even sleeping. Its tapered edges and hollowed back create a tight seal which adapts to the body's contours — it actually warms to the body temperature and feels natural when hugging a woman wearing the breast form.

With Discrene, there is no noise or slippage as with the traditional breast forms that fit into a surgical bra. You may bend over with ease as well as returning to play sports with a sports bra.

Because the form's weight is supported by the chest wall, the wearer does not suffer from the strain typically felt on the shoulders and in the back when wearing a surgical bra and breast form.

Because of recent news on the danger of breast reconstruction, many women are hesitant to use the procedure. Discrene provides a safe, excellent alternative.

Most insurance companies will replace your breast form every two years, and many women pursue this option.

If you would like more information or have any questions, please contact **Nights in White Satin** at (915) 570-1155.

Introducing a
breast form worn on your body,
so it's not on your mind.

AN INNOVATIVE MASTECTOMY
PRODUCT THAT
OFFERS SOMETHING
OTHERS DON'T -
PEACE OF MIND!



Presenting Discrene, a unique breast form that is held securely on your body by a gentle adhesive system. So it moves as you move, like your natural breast.

We are carrying this breast form in stock at all times for all of West Texas with Trained fitters on staff.

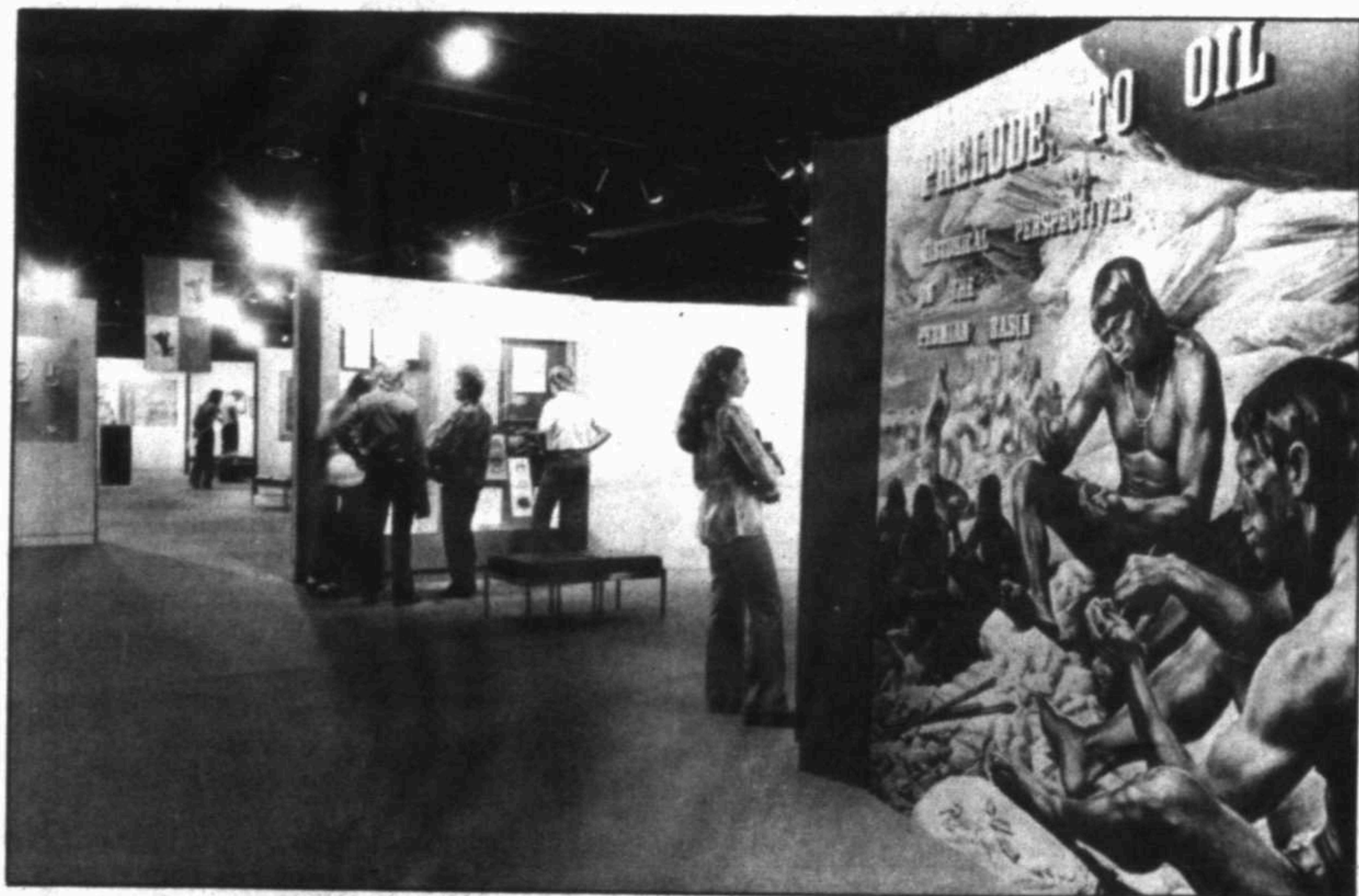
Featuring Fine Lingerie, Career Suits,
and Self Adhesive Breast Prosthesis

Nights in White Satin

21 Oak Ridge Square • N.E. Corner of Wadley at Garfield
Midland, Texas • (915) 570-1155

Above, the former Turner family mansion on West Missouri Avenue is the centerpiece of the Museum of the Southwest, which incorporates a children's museum and planetarium. At left, while many of the collections on display at the Permian Basin Petroleum Museum frequently change, the popular historical exhibits have been altered little over the years.

File Photos



PLAYMATES Cabaret

The Finest in Gentlemen's Entertainment

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An Innocent Diversion

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In A Class Of It's Own!

SHOW GIRLS SHOW GIRLS SHOW GIRLS SHOW GIRLS SHOW GIRLS SHOW GIRLS

The Bunny

Gentlemen's Club & Restaurant

Welcomes Oil Show Visitors!

Appearing During The Oil Show

Monday, October 19th thru Saturday, October 24th

Melissa Wolf

Penthouse's Most Published Pet

Our feature this week is one of **PENTHOUSE'S** most photographed and published Pets in their twenty-two year history. She has graced the pages as a PET, FEATURE and COVERGIRL for a record twenty-seven times. Her latest appearance being the December 1991 *'Girls of Penthouse'*.

She has been seen on television, appearing on such popular shows as *'A Current Affair'*, *'Hard Copy'* and the cable version of *'USA TODAY'*.

And will soon appear in the **PENTHOUSE** Video *'Great American Penthouse Search'* to be released July 10th!

The Bunny Gentlemen's Club & Restaurant is proud to present, direct from Vancouver, British Columbia, Canada, Miss Melissa Wolf.

During the Show...

Anyone who shows gratuity to Melissa will receive a **FREE 4x6 POSTCARD** Polaroids, posters, T-Shirts, and other souvenirs are available after every show. With every polaroid purchased you receive a **FREE** calendar poster.

★★★SHOWTIMES★★★
6PM-8PM-10PM
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• All major credit cards accepted
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HOURLY REPORT ON THE OIL PRODUCING INDUSTRY

*Today...since last midnight
the United States...*





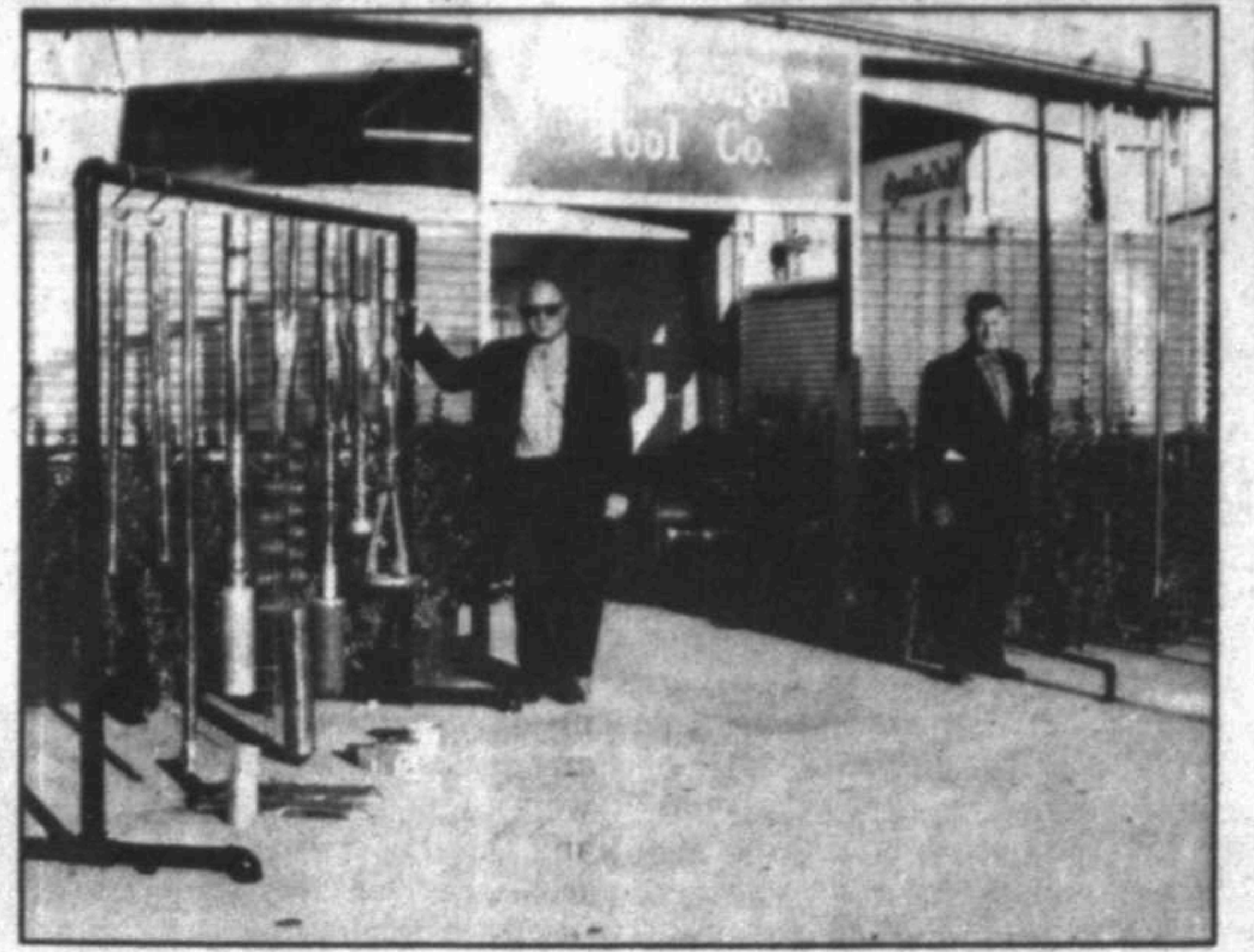
FALCON SEAWARD
DRILLING COMPANY

OILMEN HAVE COMPLETED	1200	TOTAL WELLS
THESE WELLS INCLUDE	720	PRODUCERS OF OIL AND GAS
AND	480	DRY HOLES
THESE WELLS WERE DRILLED A TOTAL DEPTH OF	925	MILES INTO THE EARTH
AT A TOTAL COST OF	6,050,000	DOLLARS. AVERAGING \$65,000.00 PER MILE
IN ADDITION TO DRILLING	3,424,000	DOLLARS WERE SPENT IN SCIENTIFIC
EXPLORATION AND LEASING. DURING THIS PERIOD	6,735,000	BARRELS WERE PRODUCED FOR CONSUMPTION.
DESPITE THIS PRODUCTION		
U.S. PETROLEUM RESERVES WERE INCREASED TODAY BY 1255,800 BARRELS.		

FURTHER PROOF THAT WE ARE NOT RUNNING OUT OF OIL!

The daily activities illustrated above will result in the completion of approximately 52,746 wells in 1959, costing 2.6 billion dollars to drill. In addition, another 1.5 billion will be spent exploring for petroleum. More than 21,000 dry holes will be drilled, costing at least 1 billion dollars. The search for oil and gas is the most costly and financially hazardous industrial activity in America. Despite this, the

principal petroleum product, gasoline, is one of the biggest bargains in the nation. The selling price of gasoline, except for state and federal taxes, is about the same as 30 years ago. Historic depletion tax provisions, adopted by congress in 1926, partly offset the unusual risk in the search for oil. Elimination of this provision would mean an increase of about 25% in the price of gasoline!



HISTORY ON DISPLAY



Historic photos of past Permian Basin Oil Shows reveal a variety of interesting social changes, from fashions and hairstyles. Booths have long tried to educate, top left, visitors about the petroleum industry and demonstrate the inherent risk in wildcatting, above, using easily understandable terms. Kuwait was a well-known oil field destination, left, long before Saddam Hussein's invasion. Long-time exhibitors include: McCullough Tool, top right; Dresser Industries, middle left, and a pre-politically correct Kelly Girl, bottom left.



MIDLAND HILTON AND Towers

YOUR BUSINESS LOCATION IN THE PERMIAN BASIN

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Midland Hilton and Towers

From our appealing Ambiance to our Zesty southwestern cuisine, nothing is omitted for your dining and lodging pleasure at the Midland Hilton and Towers.

Spacious Lobby

Enjoy the Permian Basin's finest hotel, The Midland Hilton and Towers. From our Southwestern decor to our luxuriously appointed rooms and the finest food available in the area, you will treat yourself to simply a touch of class.



Santa Fe Bar

Enjoy your favorite cocktail in our casual and relaxed atmosphere at the Santa Fe Bar.



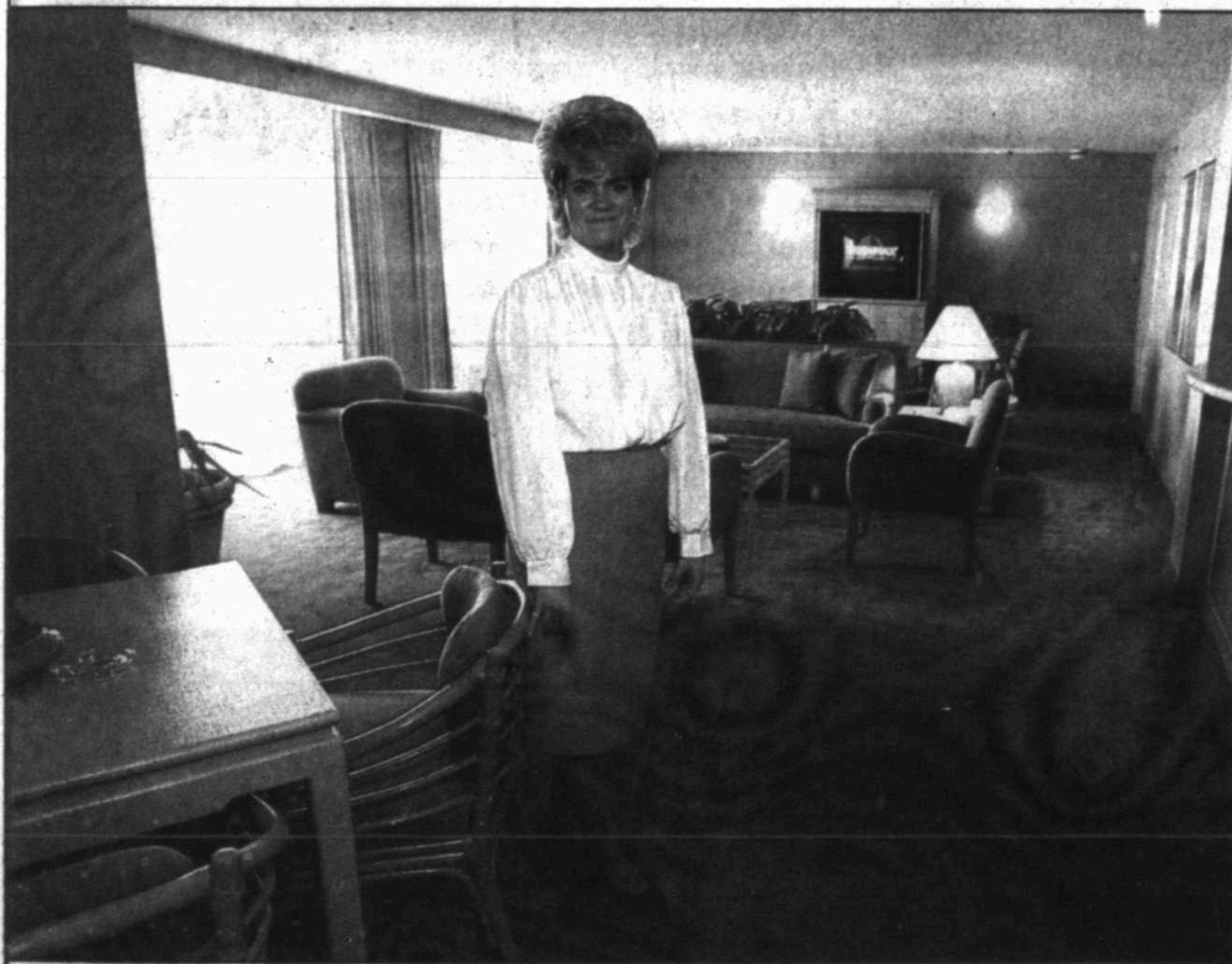
Santa Fe Grill

Featuring the finest Southwestern cuisine available in the Permian Basin.



Most Professional Staff Anywhere

Our attentive staff is available to assist you with your every need.



Concierge Class

Step up to Concierge Class service. Luxurious oversize rooms, Southwestern decor, complimentary continental breakfast, afternoon hors d'oeuvres, cocktails, turn down service, night time chocolates, luxurious bath robes -- only available at the finest hotel in the Permian Basin -- The Midland Hilton and Towers.

