

Seven Days in the Vermilion Field

Photographs and story by Sergio Ortiz

AIN IN THE GULF OF MEXICO comes as naturally as dew on a New England morning. It's a matter of fact, a natural happening that falls almost unnoticed when it's dawn just this side of morning and disappears with the first rays of sunlight.

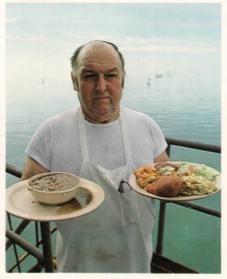
While the rain mists in this gray morning in the heart of Cajun country, a crew of men begins to gather at the Union Oil offices in Intracoastal City, a bustling industrial center in the edge of Louisiana's Vermilion Bay.

The crew is a "shift" preparing to relieve co-workers who have spent the last seven days aboard an offshore platform some five miles from shore. This new crew will remain there—aboard the structure known as Vermilion 26 C—for the next week after which they, too, will be relieved.

Before this rainy dawn is over the crew will have boarded a helicopter for the 30-minute trip over the coastal tidelands crisscrossed by canals and streams which empty muddy waters into the Gulf, over open waters and eventually land on the pad atop Vermilion 26C. This Vermilion field has quite a record.

The platform and the surrounding offshore structures are all named after the tract in the Gulf called Vermilion. The first significant offshore discovery was made there in the 50's in the 14 block of the tract and continues unimpaired to this day.

In October, 1951, Pure Oil which was acquired by Union Oil



C. L. Lastinger and his famous gumbo.

in 1965—made a discovery in what was then called the Rollover field now called Vermilion 39, off the coast of Louisiana. This first platform consisted of four gascondensate wells located on a steel piling platform about eight miles from the nearest land off Vermilion Parish.

The Pure Oil discovery well was drilled in May, 1949, at a true vertical depth of 7,600 feet. Today, however, the picture has changed drastically.

Flying to Vermilion 26 C the scope of the ensuing 30 years of production are evident by the scores of structures that loom over the warm Gulf waters. There are platforms of all sizes and shapes, production facilities that work non-stop tapping the huge reserves beneath the sea.

In the 26 block of the Vermilion tract alone there are over 30 Union

Oil platforms and offshore structures and the workers aboard 26 C service and maintain all of them.

At this time, there are 40 workers living on 26C, but only 14 of them are Union Oil employees. The rest work for a company contracted to expand the pipeline system which carries the platform's production to shore.

Paul Presley LeBlanc, a Union employee for 18 years, is the production foreman at Union's Intracoastal City offices. He explains, "This (26 C) platform is mostly a gas-producing facility where the crew works on 12-hour shifts for seven days a week. Currently," he continues, "our production there is about 243 million cubic feet of natural gas per day. There is also a considerable amount of condensate—some 4,300 barrels—that is handled at 26 C."

The condensate is piped to North Fresh Water Bayou where it is stored before being transported to the Forked Island Terminal from where it's barged to the Union Oil refinery in Beaumont, Tex. The natural gas eventually winds up in Pennsylvania.

That, of course, does not mean that the platform's six wells produce that amount. Twenty-six C serves as a gathering point for 60 other wells in the area.

"The production of 26 C is 17 million cubic feet of natural gas per day," LeBlanc explains, "but only four wells are flowing at this time, since some have been shut off while the pipeline expansion is being done."

What is life like aboard one of the Union Oil offshore facilities in the Gulf of Mexico?

The 14 Union Oil employees and the contract workers currently on 26 C are a friendly crew that goes out of its way to welcome visitors to their midst.

Bill Johnson, who has worked 26 years in the Gulf and who claims to have seen it all—"hurricanes, drilling, production, more drilling, you name it"—is one of the self-proclaimed "last survivors of the Pure Oil platforms in the area at Vermilion 39.

"I was here," he says, "when there was nothing in the Gulf. I saw the first gas-producing platforms built and I am still here."

Typical of the veterans of a long-gone era, Johnson still refers to the area as the Rollover field and he is the first to offer a visitor a "cup of good Cajun coffee, if you can stand it."

The area where Johnson works is an air-conditioned world apart from the main activity of 26 C. But the place is a sensitive nerve center that monitors all relevant activity in the Union structures of the area.

Johnson works at the control room of the platform, a miscellany of gear, charts, logs and books existing amidst a cacophony of sound—ringing telephones, the constant hum of powerful engines, the clap clap drumming of helicopters and, above all, the charmingly soft and lilting echoes of the French-Creole accent of the workers.

Once the crew has arrived at 26 C, it settles to a routine established for maximum production. Johnson enters the office where he serves as operator two. Almost at once the radio begins to drone. There are calls for repairs, maintenance, boats and for supplies

and helicopters from platforms in the Gulf.

Johnson and LeBlanc handle all this with tremendous ease. "That damned radio," someone says, "is always either too loud or too soft. You guys can never get it right."

From the room next door, a television continues to blare as it does on what it appears to be 24-hour shifts in the room that sits 12 and serves as a theatre for workers after their shifts. "There's always someone watching," Johnson explains. "It's Donahue now in the morning, the game shows come on next, then the soaps, then the news, and finally the movies at night."

In the anteroom for the control center and the television room, there is a game room for the crew. It's a large, airy place that affords an ocean view from three sides

where the workers can engage in a little pool, cards or checkers.

If the control room is the nerve center for 26 C, the game room is where the crew can unwind.

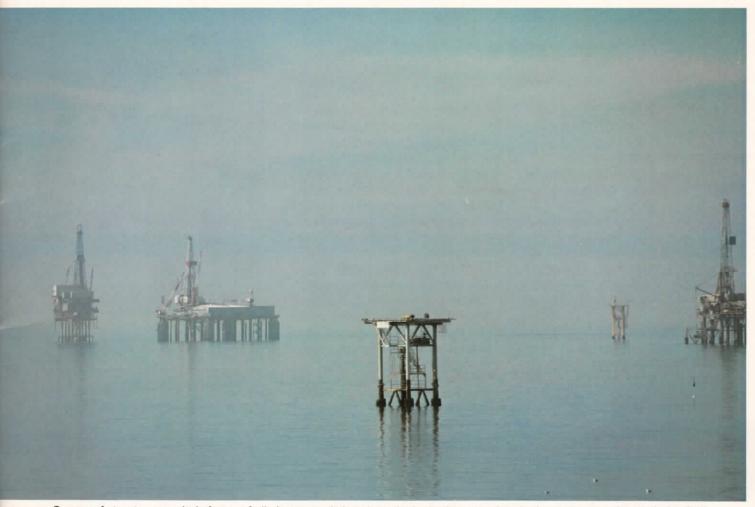
A group of men who have just come off the night shift wanders in and begin to rack up the pool balls. What follows is no billiards game at a men's club salon. This is the rough and tough cut-throat game preferred in back country beer bars.

Generally, here in the Gulf, this is a world of Levi Garrett chewing tobacco, steel-toed boots and country music, but it's not all banter and pool playing.

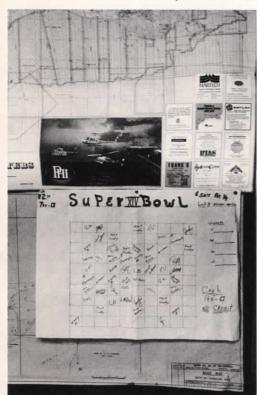
On hand is the delicate task of making things work and the production of hydrocarbons is the foremost task for the 14 platform workers, a pilot, one cook and one galley hand that comprises a



It's the platform's galley that serves as the social center of the structure.



Scores of structures and platforms of all shapes and sizes loom in the horizon tapping the huge reserves beneath the Gulf.



Football pools amidst production figures.

typical offshore crew.

The week-long confinement leaves little time for leisure, but still one finds football pools tacked on the same bulletin boards as maps showing drilling blocks and production figures.

The command structure of a platform usually follows rigid lines that are not seldom breached. In charge of the entire operation is operator one. Then there is one electrician, one mechanic and one safety equipment tester, all of whom have detailed responsibilities to make the operation run as smoothly as possible.

At 26 C, underneath the helicopter landing pad, there is a set of cubicles serving as warehouses and work rooms. Here Mike Langlinais, a Union Oil employee of four years, works with everything that has to do with electricity.

"They say that we (electricians)

work with anything that has to do with wires," Langlinais says, "but that's not necessarily so. Sometimes we have to rewire entire systems, while other times we have to reassemble condensate pumps or electric filters for the wellheads."

Langlinais makes the round between five large offshore platforms and 30 satellites inspecting and repairing electrical equipment. He is linked to 26 C by a two-way radio. A helicopter flies him to wherever the work is needed.

On the other side of the platform, Huey Thomas, the mechanic on this particular shift, is busy changing a hydraulic line on a crane needed to lift the welders' equipment to the working area. He originally planned to have a piece of equipment arrive by helicopter, but now is running behind schedule because the helicopter has been rerouted.

"Why doesn't someone tell the pilot I need my generator in a hurry?" he says into a radio. The crackling response is that the chopper is on its way. "Damn it. That's what they said two hours ago," Thomas says.

Actually, 26 C is two platforms in one. On one side is the production platform, designed to produce natural gas and condensate alone. Here, pumps, wellheads, and valves are housed. The other platform consists of the living quarters, various workshops, warehouses, control room, galley, and game room.

Although women were rare in the platforms a few years back,

this offshore facility today has female workers as part of the normal shift. Separate quarters are used to house the female personnel.

It's the galley, however, that serves more than any other section as the social center of the offshore structures. Here is where normal banter is exchanged three times a day.

Even before any of the regular meals is served, the aroma of food begins to permeate over the platform and the workers begin to talk about food.

Some 200 yards from the support platform, welders are making a pipeline connection when some-



Mike Langlinais, fixes an electric pump.



Twenty-six C is two structures in one. One side serves as production center, the other houses control rooms and living quarters.

one says, "That old cook sure is dishing out the hush puppies." Gradually, the men begin to relate stories about fabled cooks in the Gulf who have gained notoriety through their skills.

This is definitely not a world of low cholesterol or diets as C. L. Lastinger, the cook at 26 C, will admit. "The crews eat as hard as they work," he says.

Lastinger is one of many contract personnel who serve on the Union Oil offshore platforms in the Gulf. "I've been cooking nine years and the meals never change," he says, dipping a piece of fresh fish in a tub of batter and then putting it in a large deep frier. "You can't get too fancy or no one will eat your food."

Even if Lastinger got too fancy the crew would certainly finish the daily huge vat of gumbo for which Lastinger is famous.

This is some gumbo. Thick as Texas crude, the soup has chunks of shrimp and fish floating in it while large vegetables add a consistency to the brew hard to find anywhere else.

The platforms are a world in themselves which could support life almost indefinitely. Some workers have a tendency to go fishing after their shift, while others retreat to their bunks or to the game room.

Potable water is brought by boat from the mainland, eliminating the need of "Navy showers." Communications are excellent in case a worker needs to contact someone on shore, and transportation is available at the touch of a dial.

But no matter how romantic life aboard a platform may appear, to the men and women of the Gulf the structures offer nothing but hard work and sometimes monotony. Seven days aboard a platform can go a long way. It's like being stranded on a steel island where even after hours one can hear the routine language of that world all night long.

Over the hum of motors and television movies late at night, one hears voices engaged in the production phase of the oil industry. "We ought to accentuate well number 30."

"Go ahead."

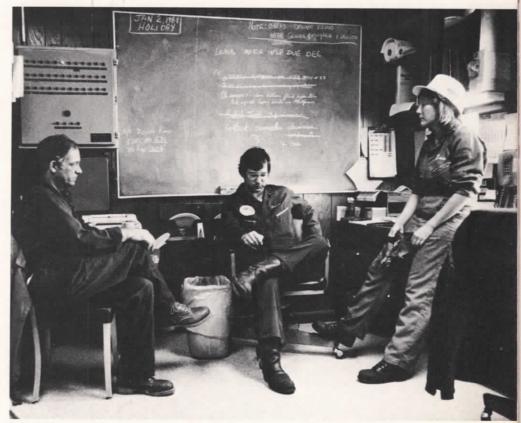
"I am gonna bring 14 in."

"Okay. Bring it in."

And so it goes all night long until one knows it's morning because the late-late movie has been replaced by the morning prayers on television. But the oil dialogue continues uninterrupted alongside the crackling of radios.

Soon, the smell of bacon fills the platform and a sleepy group files in to have breakfast.

After a week, there is a sense of relief when the helicopter lands on the pad over the structure to transport crew back to Intracoastal City. Men with the 1,000-yard stare who arrived a week before are now being replaced with a fresh crew that will live aboard 26 C in a pseudomonastic existence, surrounded by sophisticated equipment that wrestles hydrocarbons from beneath the ocean floor.



Donald Stouts, (C) operator one at 26C, discusses the day's work with a crew.



Invest in the future:

Adopt-a-School

HEN PROPOSITION 13—a statewide tax-reducing measure approved by California voters went into effect a few years ago—everybody was talking about the fate that would befall schools and the numerous cutbacks the initiative would cause. The cutbacks were substantial in some cases, but someone is now doing something to ease the pressures of the Proposition 13 reductions within the Los Angeles Unified School District.

Large firms and small businesses as well, have moved to help the schools with contributions, personnel and, most importantly, by showing a fresh and keen interest in the students.

It is a new program, an innovative concept in education called the Adopt-a-School program. Initiated on a smaller scale within the Los Angeles Unified School District even before Proposition 13 ever became a reality, "the program not only helps students learn in the classroom, it also gives them opportunities to rub elbows with people from all over town who do jobs with which the young people might not be familiar," explains Dr. Robert Loveland, a Hollywood physician who along with Bruce Schwaegler, president of a chain of department stores helped start the program. "The people from industry appreciate their jobs more when they are seen through someone else's eyes, when these professionals explain what it is they do and how they do it," Loveland adds.

Adopt-a-School is considered a good investment in the future, while offering people from various areas of business and industry an opportunity to become more involved with the education process.

At Canoga Park elementary school, a businessman helps a youngster with his counting exercises. At

White Point elementary school in San Pedro, Marineland provides animals for the school's aquariums and even has its employees change the tank water every two weeks and answer students' questions. At Grant high school in Van Nuys, a petroleum engineer from Union Oil explains to a science class the problems and progress being made in the exploration of oil.

Union Oil has been active in the program since May last year when the company "adopted" Grant. The school has an enrollment of 3,200 with 800 students being bused in from the downtown area near Union's corporate headquarters.

One of 80 companies helping 87 schools, Union has provided Grant with five speakers to lecture on subjects ranging from the seeking and securing of employment in the oil industry to explaining the sciences of petroleum and chemical engineering.

The speakers are given time off from their jobs to visit the school and speak to the students. Union Oil has also given the school some laboratory equipment and specimens of petroleum products for the school's science department. Elsewhere at Grant, Union has sponsored an art gallery and donated tables and chairs for the teachers' lounge.

According to R. R. Cowan, Union's vice president of marketing, Western Region, who originated the involvement in the program, "Union first took interest in Adopt-a-School through our activities with the Los Angeles Chamber of Commerce. That's when I realized that the program had great potential."

To date, the students have been visited by Union employees who have talked on a wide range of subjects. These include Tyler Brinker, regional drilling manager for Union's Oil and Gas Division, Western Region who talked about the production phase of the company's operations; Stan Zwicker, coordinator of environmental programs, who discussed the Clean Air Act; and Carl Bowden, manager of employment services, who explained many of the opportunities available in the industry.

"It's a people orientated program," explains Wayne Carlson, director of the Adopt-a-School program for the Los Angeles Unified School District. "Each school has a different set of needs and the participating companies offer various opportunities for the students. We have a real diversity of activity," he continues. "If a company does only one thing, it's one thing more than we had. Usually companies invariably become more involved. Employees also leave feeling better about their own job, the school system and kids in general."

Some of the activities where business and industry become involved in education include student tutoring. In this phase of the program, employees take time off from their job to tutor elementary or secondary students in one or a number of subjects.

Another facet of Adopt-a-School is an in-service program that provides an opportunity for students to spend time observing and learning the operations of business firms and the career implications found in the outside world.

Some employees teach mini-courses in various areas of interest such as astronomy, ballet and sculpting. Incentives and awards providing prizes, certificates and plaques to students for outstanding accomplishments are provided by companies. Other projects include innovative sponsorship of scout troops. Participating business firms have thought of the parents by encouraging better parent-community rapport through school-centered activities for parents such as health clinics and economic awareness workshops.

Companies find themselves useful in providing inservice education in their areas of expertise such as management training, economics, computer instructions and business education by allowing teachers to attend company seminars. Funds for special motiva-



Don Isaac (L), principal at the school and Lou Barak, coordinator of Union's program at Grant, are satisfied with program's success.



Chinsun Lee (L) and Maria Desouza, Grant 11 graders, use one of the Union Oil Scales and beakers during a science class.



Fred Garcia, Karen Adams and Teresa Brennerman.

tional and instructional activities as well as school scholarships are provided by some of the larger corporations in addition to their employee involvement. For students who are seeking employment out of high school, some companies are able to provide a job placement service with the school's work experience coordinator.

Many employees of the participating businesses and corporations are finding special satisfaction in helping students. "I think the concept of the program is exceptional, "says Dodger president Peter O'Malley. "It gives our personnel the opportunity to step outside the boundaries of a professional corporation and to have some input into the educational process. It's an eye opening experience for us." The Dodgers "adopted" the sixth grade from the Solano Avenue school to give them guidance in career awareness.

"When requests are made of the companies in the program, they have come through," explains Lou Barak, coordinator of Union's involvement with Grant high school. "At a time when many people are turning their backs on the schools, it's good to have a company like Union Oil offer help."

Barak, who is a career advisor and a teacher of business and government at Grant, continues, "If we had to rely on our budget resources for a similar program we would have to wait a long time. Our access to equipment and field trips has been cut back and Union's assistance has helped."

Barak feels that it is encouraging for students to know that a large company like Union Oil cares and is giving something to them.

76Union Oil Defined

HE LAST DECADE has been a turbulent one for the energy industry. What with changes, new outlooks, the upheaval in the economy and the heavy dependence on foreign oil on the part of the United States, the life of the nation has been put to a strenuous test.

For example, in the seven years immediately after the first oil embargo in 1973, the world market price of a barrel of crude oil jumped from \$3 to over \$32.

What this means to the lifestyle of the United States is obvious. The country's thirst for oil must be quenched only by developing new domestic energy sources while holding a tight rein on all conservation methods. It is apparent that once ignored innovative sources of energy must be re-

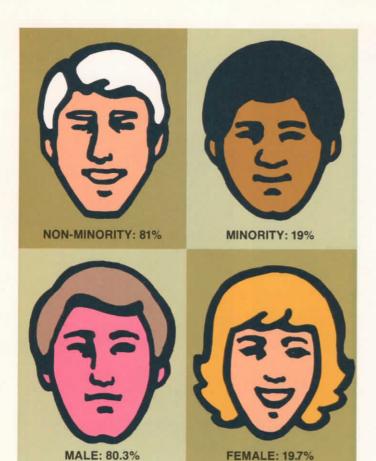
viewed in the immediate future.

This means that radical changes must be made while the country learns to adapt in order to maintain our way of life.

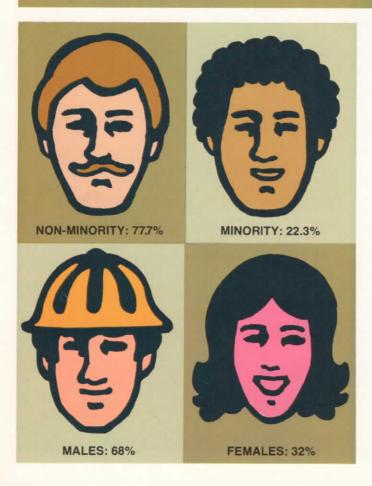
And those working in the oil industry will be the ones most affected by the coming changes. Who are they?

They are the typists, engineers, refiners, executives, service workers and researchers who have made Union Oil a strong company in the energy market.

Following is a break-down of those individuals who compose the firm known as Union Oil Company of California and its subsidiaries including Pure Transportation Company, Molycorp Inc., West Coast Shipping Company, Moreland Development Company and others.



TOTAL EMPLOYEES: 17,995

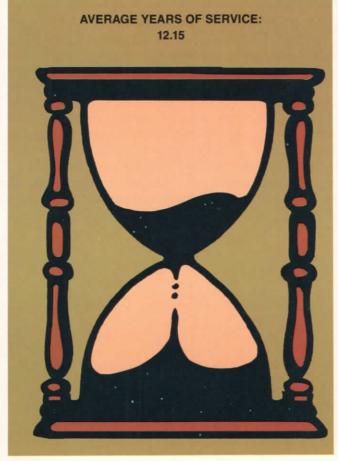


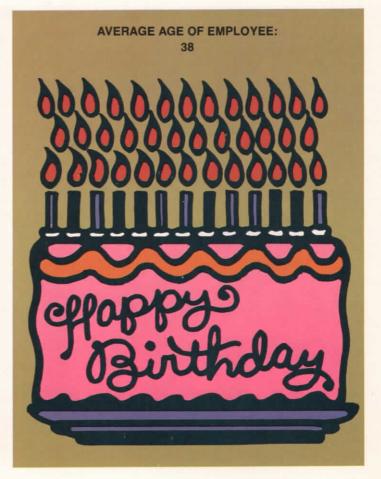
NEW HIRES IN 1980: 2,057



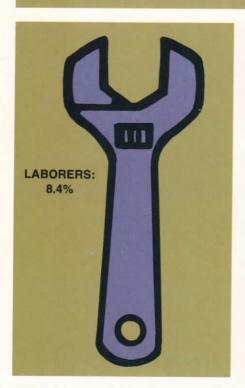


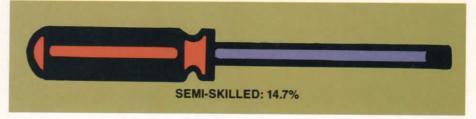






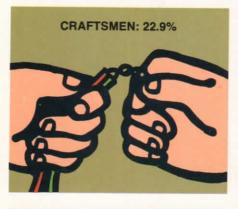
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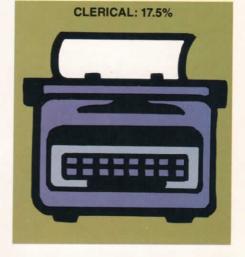
















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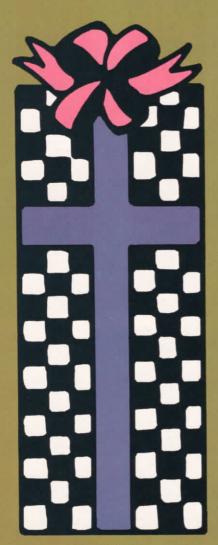
17: 13



18-24: 2,864



25-34: 3,307



35-44: 4,950



45-54: 3,791

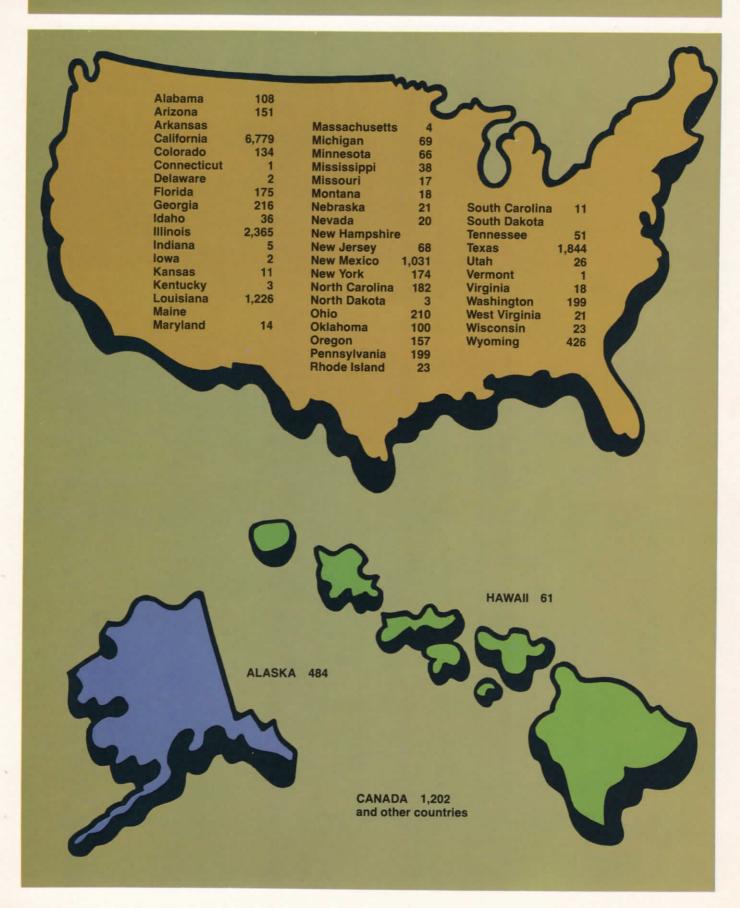


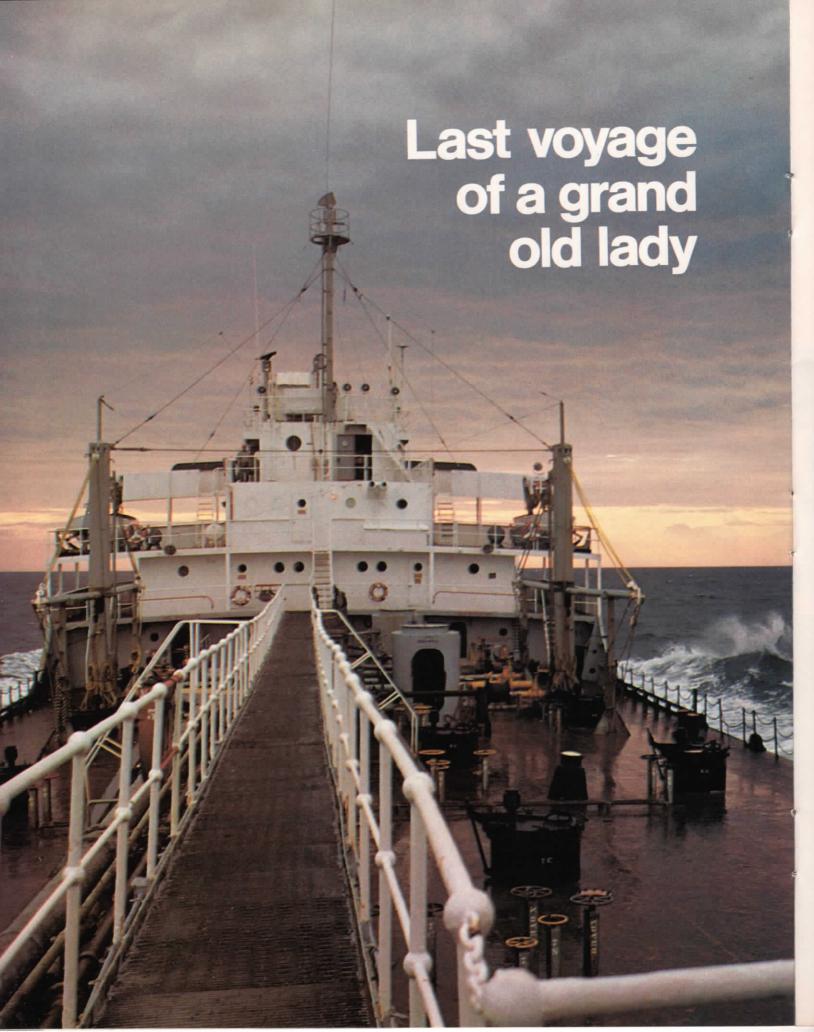
55-64: 3,005



65 & OVER: 65

DISTRIBUTION OF WORK BY LOCATION





Rodgers. And he should know, because he has been one of her masters for the last ten years—almost one-fourth of the S.S. Pure Oil's sealife. The Pure Oil, an old T-3 style tanker carrying only 10,000 gross tons of fuel products, is a workhorse—not a pretty dapple-flanked mare, or a mighty Clydesdale of a ship, but a nondescript plow horse doing her duty.

For years, the crew of the *Pure Oil* has had a reputation within Union Oil Company, who acquired the ship when its owner company merged with Union in 1965. The *Pure Oil* has always been "that ship." You know, the one whose crew painted her stack with a ten-foot smiling face honoring her 1,000th voyage in 1973—a record number of trips few vessels can boast. The same ship which wore stars and stripes on her stack as she plied the waters of the Gulf of Mexico in 1976 is also known for a captain and officers who, in fair weather, jog around the stack—not to mention a chief engineer who rigged up a tennis "wall" to practice hitting a few balls.

Sailors up and down the East Coast and throughout the Gulf, where she regularly sails to and from her home port at the Union Oil refinery in Beaumont, Tex., know her almost perpendicular bow and smile when spotting the "Old Lady" chugging along at sea. Ships ten years her junior already have outlived their service or long since perished in the scrap yards.

But now, after 36 years, the ship's working days for Union Oil are drawing to a close. Like the wonderful One-Hoss Shay, the *Pure Oil* has worked faithfully up until the end of her service.

Standing ashore under rain-grey skies on the edge of the Sabine river at the dock in Port Arthur, Tex., even landlubbers marvel when today's swift supertankers (lightened at sea to decrease their draft, enabling them to navigate the shallow channel) sail past the stubby, 500-foot long *Pure Oil* pumping gasoline in her holds.

Rust stains mar her black hull as she waits her trip to Tampa, Fla. Soon, the silence is broken as the S.S. D.D. Irwin, a tanker owned by Union salutes her flagship as she passes bound for Savannah, Ga., loaded with chemicals and lubricating oils. Solemnly, the crew at the bridge of the Pure Oil returns the salute.

One feels the gangway rocking gently as the *Pure Oil* teeters over loading lines beneath it. Men monitor the decks as the cargo is piped on board. This is not a modern, computerized tanker. It relies heavily on the muscles and legwork of the crew.

Built in 1945 as one of a group of six large (for those days) tankers, the *Pure Oil* first sailed under charter to

the War Shipping Administration, although operated by the Pure Oil Company. On an overcast July 28 morning Mrs. Joseph V. Blake, wife of the *Pure Oil's* marine department manager, sponsored the vessel without fanfare, saying "I christen you, the *S.S. Pure Oil.*"

Gliding into the water, the launching was deemed successful. Sadly enough, the ship's maiden voyage was not to be as smooth. While berthed at a refinery in Marcus Hook on the Delaware River, the vessel was rammed amidships and almost cut in half by another ship. Extensive repairs were needed before the tanker could begin its intended career.

The Pure Oil sails the route she was designed to run best — from Beaumont across the Gulf of Mexico to Tampa, around the Keys and following the coast north sometimes as far as Boston. The ship's 32-foot draft makes her well-suited for the shallow waters she navigates.

Occasionally, she went on longer voyages to Puerto Rico, and during her career the vessel has called on ports in Germany, Newfoundland, Bermuda and even Halifax. But mostly she stayed in the Gulf, winding her way between offshore platforms to the open sea.

"When they first told me I'd navigate by platforms," says Captain R. D. Bryan, "I thought it was a joke." Bryan, like Rodgers and the other officers, serves as captain of the vessel for a 60-day stint. This was Capt. Bryan's first day back at sea after a 30-day leave.

The oil platforms are lighted at night, he explains, and are also readily visible during the day. They make good "street signs" and are nicknamed for their various attributes: "Big Red" with its long bridge between two red structures, and "Old Yellow Legs" or "Daddy Long Legs" are all familiar navigation aids.

A crew of 38 officers and hands is needed to load cargo, work the engine room, do maintenance, prepare food and man the bridge. "The chief mate, who is responsible for cargo," says Capt. Bryan, "must be on deck during loading — regardless whether it's raining, sleeting or snowing. He may be wrapped up like a bear when he goes out to gauge the tanks, to slow down pumps or go into the pump room and start moving ballast from one tank to another."

The S.S. Pure Oil, a Union Oil tanker with a rich history, will be retired from service in the immediate future. To grasp what it felt like to live and work on board the vessel, Karen Saunders, former editor of Seventy Six Magazine, sailed aboard the ship on a trip from Port Arthur, Tx., to Tampa, Fla.

Jim Pennino, chief mate on the *Pure Oil* during the 1,294th voyage, says "I first went to sea in June of '41, and I've been working for Union Oil for two years."

Pennino explains that he is responsible for the cargo, ballast, loading and discharge. "This ship is a good training ground for new officers," he says. "It's a continuation of their schooling. We have to solve problems they might not often face on a newer ship. On a tanker you always have to be careful and take precautions. If a person learns his skills on a ship such as this one, he will have a better understanding of what is really happening when they transfer to a more modern vessel."

Pennino admits preferring to sail on older ships. He comments, "I've sailed on three new ships. There are always wrinkles to iron out. I'm familiar with older ships and like them. This is the oldest ship I've been on which has run continuously and been productive. It's

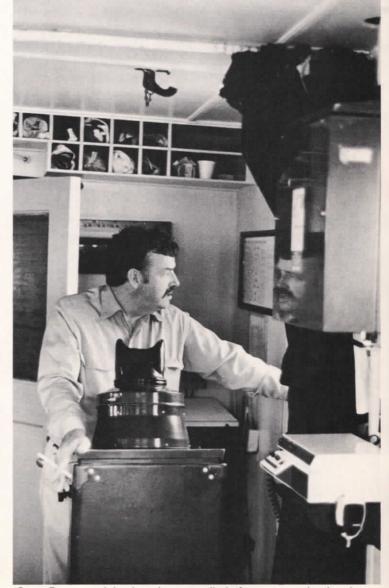
really amazing. It probably knows its own way around the Gulf and the East Coast—with or without crew."

Tom Bontemps, third mate, agrees with Pennino's comments about the ship being a learning ground. "When you are out there actually turning the valves and running from bow to stern on the ship you are learning what is happening—or fixing it. After that, you have the ground work to build upon."

Currently Bontemps is studying to earn his chief mate's license. Each officer is a graduate from a maritime academy and must obtain a license before serving in that position at sea. "You need one year of sea time in order to take the next higher license test," says Bontemps. The exams are rigorous and take four days for the chief mate's, or even longer for a master's or captain's license which must be renewed every five years. The test covers loading, discharge, math formulas to calculate draft, naviga-



Stormy seas spill over the deck of the Pure Oil in the Gulf.



Capt. Bryan explains how he uses oil platforms as navigational aids while guiding the vessel on its way across the open sea.

tional problems, chartwork, safety and pollution," says Bontemps. Like most other officers, his goal is a master's license and to eventually sail as captain. "That's the pinnacle," he adds.

The Pure Oil, like the D.D. Irwin, is a dear ship to its crew. One reason is the relatively short routes she sails along the coast. Bruce Arnold, second mate, says, "Every two or four days I am offshore and can call home. Most cargo ships are at sea for weeks." Chief mate Pennino seconds that opinion. "I've sailed all over the world. The novelty has worn off. As a kid when I was adventurous, it was different. With a coastways ship like this one you are connected with life."

At night the ship is quiet.

The "Old Lady" is rocked by the sea. Between shifts. the officers retreat to their cabins to sleep or read and write letters. The only sound is that of waves crunch-

ing against the hull, spattering a gravely spray against the portholes.

Each wave is different - some sound like a powerhouse slamming into the ship's metal skin. Others are soft and caress the vessel.

Morning brings a wake-up call from one of the officers and the offer of hot coffee on the bridge before walking back across the catwalk for breakfast in the officer's salon.

A sign over the mirror reminds every person on board "You are looking at the world's greatest safety device." It is always taken for granted that the S.S. Pure Oil is a working oil tanker.

During meals the officers tell jokes and remember tales from other ships. They discuss the new postings to see who has been assigned to the Blue Ridge and study a fuzzy photocopy of the new ship in drydock. Quickly the conversation is directed to Charles Cooley, chief





Crewmen man the bridge of the 500-foot long "Old Lady."





Charles Cooley, chief engineer demonstrates the ship's inert gas system on a model he has devised.



Above: Jim Pennino, chief mate, a sailor for 40 years. Left: Crewmen check pumps upon docking at Tampa.

engineer, as to when his model will be ready.

"I've put together a model of the principles of how the new ship's inert gas system will work," Cooley explains. "The mates will need to know how the gases, water pressures and liquid levels work. Understanding the model will help them visualize what the valves do."

The model, made from bits and pieces of aquarium equipment and items from Cooley's laboratory, is an example of the chief engineer's ingenuity. When not on board he writes poems, plays the violin and works as an inventor. Some of his devices—like the inert gas model—have become essential in the ship. "Ken Casson, the other chief engineer, and I have built several gadgets to keep the Old Girl running. Facing that challenge is a lot of fun. The ship could have worked without my inventions, but they do help us. They make our job just a little bit safer and save us manhours."

Cooley feels every ship has its own spirit. "I enjoy the camaraderie here, and that's a thing you don't often have on board. Many ships are just humdrum. If you can get on a ship like the *Pure Oil* where everybody is pulling together it's more fun. I like that."

Cooley admits, he, like others on board, is looking forward to the new ship, "but I'll miss the Old Girl. It's almost like a home. I'll be glad for the new ship, but I'll look back on the *Pure Oil* with fondness."

In a quiet moment, Capt. Bryan reflects on the retirement of the *Pure Oil*.

"Anyone who sees a vessel leave service after it has done glorious work, always leaving port with a full cargo and arriving with a full discharge and a minimum loss of time....I have to review it with some sadness. It's a good ship, it's always done the job."

Touring the cabins and rooms of the beige and battle-



The Savannah bound S.S. D.D. Irwin (R), also owned by Union Oil, salutes the Pure Oil in a Port Arthur channel.

ship grey interior is a curious sight to a non-sailor expecting the romance of a sea voyage.

Rooms are quiet. Taped pictures add brightness to bulkheads, and a handmade afghan reminds one officer of the loving hands which knitted it. Well-worn, overstuffed chairs mended with tape give a homey, used air to the cabins and stereo tapes offer respite from all the sounds of the sea.

One officer is doing his wash in one of the wringer Maytags, explaining, "The *Pure Oil* is an old ship—DC current only." Clothes dry on lines strung across the laundry room.

Through the night the fog horn hoarsely warns approaching vessels of the *Pure Oil's* position. Pre-dawn brings a warning in the crackly voice of the cabin speaker that the Tampa Bay pilot has boarded and the ship will dock in the next hour.

Flashlights blink on deck as seamen scramble down ladders. Walky-talkies allow the captain to command from the bridge. Gently, the ship eases into the Union Oil dock as tugboats nudge her into position near the bank of fuel lines. Flashlights are put away when dawn erases night.

The *Pure Oil* has delivered one more load of gasoline and diesel.

After seeing the *Pure Oil* — sometimes the brunt of jokes based on her age and ill-look is overemphasized— one agrees that she may be a rusty scow, short on length and capacity, but definitely long on dependability.

It's a little of what T. J. "Tom" Kerans, Union Oil's manager of marine operations in Beaumont, replied when quizzed by a sailor about what ship will be the flagship of Union's fleet when the *Pure Oil* retires?

Kerans answered slowly, "the Pure Oil, of course." 30





Noting grey skies, third officer T. Bontemps (L) and Charlie Bumbgarnel discuss ensuing weather.



Bruce Arnold, second mate on the Pure Oil (L) and a terminal operator gauge oil tanks at Tampa.

Two energy futures

During the 70's, the price of foreign crude oil jumped more than 1,000 percent...Last year, America's bill for imported oil rose to \$80 billion.

DURING THE 1950s and 1960s, America had secure energy supplies which fueled unprecedented economic growth and rising standards of living for all Americans.

The decade of the 70s, however, was a period of transition, a change to uncertain times. America's oil and natural gas production began to fall while at the same time demand increased, making the country increasingly dependent upon foreign oil supplies. Imports rose from 3.4 million barrels per day in 1970 to 8.2 million barrels a day in 1979.

This increased dependence carried a high price tag for America. In 1973, the Arab oil-exporting nations embargoed oil shipments to the United States, throwing our nation into economic turmoil. More than one-half million workers were laid off, and the nation experienced the worst economic recession since the 1930s.

In 1979, the revolution in Iran caused a shutoff of six million barrels of oil per day, and once again our energy thirsty industrial complex suffered.

During the 70s, the price of foreign crude oil jumped more than 1,000 percent. America's oil import bill skyrocketed from three billion dollars in 1970 to more than 60 billion dollars in 1979. This drain on our balance of payments slowed America's Gross National Product growth rate from better than four percent a year in the 1960s to less than three percent a year in the 1970s. Last year, America's bill for imported oil rose to \$80 billion, up one-third from 1979. This occurred despite impressive conservation efforts and reduced consumption.

The choice is clear. America can continue the course set in the 1970s and export its wealth to pay for even more expensive foreign oil, and the nation will be increasingly subject to the goodwill and stability of Middle Eastern countries.

The alternative is to do things differently: to increase energy production in this country, continue to conserve and, in the end, regain some of our lost energy security. Along the way, we can reduce oil imports significantly, perhaps cut them by 50 percent in 1990 from our current level.

America is fortunate in having enough domestic energy resources to meet expected growth in energy demand while at the same time reduce oil imports. And the energy industry in this country is developing the technical know-how to make the country's vast resources.

The United States has more oil, natural gas, coal, uranium and geothermal energy potential within its borders than has been produced so far in the history of our nation. These energy sources can carry us not only until synthetic oil and gas are available from oil shale and coal, but also until solar power and fusion and other non-traditional energy forms are developed.

Given the proper economic and political climate, we can make great strides toward energy security within the next decade.

We can stop the decline in U.S. oil production. Government and

The alternative is to do things differently: to increase energy production in this country, continue to conserve and regain some of our lost energy security.

industry studies indicate that we have—in this country—about 150 billion barrels of oil that we can produce in the future.

We can maintain or increase our national gas production. Domestic reserves are estimated to yield about 800 trillion cubic feet of natural gas, equal to another 142 billion barrels of oil.

We can double coal production in the United States. America's recoverable coal reserves total at least 250 billion tons; equivalent to about 1,000 billion barrels of oil, more than three times our recoverable oil and gas resources combined.

We can triple energy supplied by nuclear power. America's reserves of uranium—in its concentrated form—add up to some 700,000 tons. That is equal to more than 25 billion barrels of oil—enough to meet the nation's nuclear power needs well into the next century.

The synthetic fuel potential—oil and gas from coal, tar sands and oil shale—is enormous. For example, oil shale deposits in the United States could produce as much as 600 billion barrels of oil—twice as much as America's current resources of oil and natural gas.

Finally, in the long run, we can expect significant contributions from renewable energy resources

America is fortunate in having enough domestic energy resources to meet expected growth in energy demand while at the same time reduce oil imports.

Whether we, as a nation, will achieve these goals will depend upon some positive government actions. Four crucial steps are required by government if America is to reduce its dependence on foreign oil.

such as solar power, wind and biomass.

These are things which can be accomplished. Whether we as a nation will achieve these goals will depend upon some positive government actions. Four crucial steps are required by government if America is to reduce its dependence on foreign oil.

The first step involves getting more energy from public lands. The Federal government owns about one-third of all land onshore and all of the nation's lands offshore beyond state jurisdiction. In recent years, actions by the government have closed more and more of this Federal land to energy exploration and development. Today, about two-thirds of these lands are formally closed, or severely restricted to energy activities. To put this number in perspective, these closed or restricted lands are nearly five times the size of the state of California.

The energy potential of these lands is enormous. Federal lands contain an estimated 37 percent of America's undiscovered oil resources, 43 percent of undiscovered natural gas supplies, 40 percent of America's remaining coal supplies and more than 80 percent of the nation's oil shale reserves.

The obvious answer is to expand and accelerate development of

these vital energy resources in a sound and careful way. Already the Reagan Administration has taken actions which may open previously closed offshore California areas to energy exploration. This is a step in the right direction.

The second step for energy security is to achieve a balance between America's energy needs and our environmental goals and objectives. While we have achieved dramatic improvements in air quality over the past years, the environmental laws have created a procedural maze which has slowed progress toward development of needed energy supplies.

The goal of preserving our environment should not be changed; we need to concentrate on streamlining rules and removing unnecessary roadblocks.

The third step is to make timely

Federal lands contain an estimated 37 percent of America's undiscovered oil resources, 43 percent of undiscovered natural gas supplies, 40 percent of coal supplies and more than 80 percent of oil shale reserves.

decisions on nuclear growth in the United States. By completing those plants which have already received governmental permits, America can triple the nuclear contribution. The nation should adopt a safe and rational approach to nuclear power, adhering to the standards now in place to ensure safe operation.

The final step is to increase reliance on free market forces for pricing and supply. President Reagan's decision to accelerate decontrol of domestic crude oil prices was a bold step in the right direction.

The evidence shows the free market works. With higher gasoline prices, consumption has dropped by seven percent from 1980, and Americans are demanding more fuel efficient automobiles while reducing their overall driving.

The higher prices of crude oil are also having a positive impact on energy development. In February 1981, more than 3,400 drilling rigs were working in the United States, up 30 percent from a year before and the highest level in 25 years.

These four steps—opening public lands, balanced environmental goals, expanding nuclear power and reliance on the free market—can lead America toward a more secure energy future.

Union Oil Company has already

made its commitment to developing America's energy resources. In 1981, the company proposes to spend more than \$1.5 billion on capital and exploration projects in the United States.

The Union Oil and Gas Division is aggressively exploring for new oil and gas reserves in California, Oklahoma, Texas, Louisiana, New Mexico, Alabama, Mississippi, the Gulf of Mexico and Alaska. In addition it will be bringing on new production.

The Union Geothermal Division is continuing its search for geothermal resources throughout the western United States as well as expansion of production facilities at The Geysers geothermal field in northern California and further development work in California's Imperial Valley and in New Mexico.

The Union Energy Mining Division is proceeding with construction on the first phase of a 50,000 barrel per day oil shale project in the Parachute Creek area of western Colorado. Operations are expected to begin in 1983.

America faces a choice between renewed energy security or continued energy dependence. Union has already made its choice. We are moving ahead, developing America's resources.

America faces a choice between renewed energy security or continued energy dependence.

MARCH/APRIL, 1981



Saving energy through emission recovery

MPROVING AIR QUALITY and conserving energy are two important goals toward which Union Oil points in its product refining, storage and distribution operations.

Over the last 30 years, the company continually developed its vapor recovery techniques to assure cleaner air by recovering emissions that once escaped into the atmosphere.

Through various methods at five stages, from the refinery to an automobile's gas tank, today's systems retain more than 95 percent of the vapors, equal to about seven and one-half gallons of every 1,000 processed.

Evaporation is the largest single reason for loss of volatile products. It can occur during filling or emptying or while in storage.

At Union's refineries and terminals, petroleum liquids are principally stored in tanks with floating roofs to virtually eliminate emissions. These roofs float directly on the surface of the products, preventing space which allows evaporation.

Floating roof tanks, in use since the early 1940's, reduce emissions by 90 percent over storage tanks with fixed roofs, notes Dr. Robert L. Russell of Union's Science and Technology Division.

The primary emission-preventive seal is generally a metal shoe seal which was determined to be the most effective and is in general use. In the last few years, secondary seals made of stiff rubber have been incorporated in new floating roof tanks. Tanks thus equipped emit 99 percent less vapors than the oil fixed roof models.

At distribution terminals, vapors previously escaped every time a tank truck was filled at a loading rack. In 1954 Union Oil developed a method to control this, patented the process and subsequently turned the ****



A method devised by Frank Lord enables this tank truck in Miami to return lost vapors to its tank.

patent over to the public for widespread benefit.

At service stations, vapors were lost in deliveries as new gasoline was added to existing quantities. The Los Angeles Air Pollution Control District recommended installation of an aluminum sleeve in the fill pipe in 1964. This enables tank trucks to discharge product under the surface of the gasoline liquid already in the tank—one more energy and air quality savings.

However, another vapor problem at stations re-

FROM CONCEPT TO REALITY

"The idea was so simple and logical that I was surprised no one had ever thought of it before."

That's how Frank Lord, Los Angeles terminal superintendent, describes his concept to capture gasoline vapors that were being vented into the air from underground tanks during filling at service stations.

"I was driving home from work one night ten years ago and the idea hit me. When I walked in the door, my wife could tell I was on an emotional high. I immediately sat down and drew a crude sketch of a system to vacuum gasoline vapors into the tank truck," Lord explains.

With cooperation between the Union 76 Division and Science and Technology, the concept was tested. Several service stations were modified and experiments were conducted successfully. Frank Lord's idea was put into practice throughout the company and eventually was patented.

"It was a lot of fun and very exciting," Lord notes. "And what's more, when the push for cleaner air came along, this recovery system was already in place and enabled us to be ahead of the pack."

mained until Frank Lord, now Los Angeles terminal superintendent, patented a method to overcome it.

For every gallon of product pumped into a station's underground tank, a gallon of gasoline vapor was being lost into the air from the tank's above ground vent. Lord's development captured the vapors in the tank truck, closing the loop.

The final stage of control over product is the service station dispenser. A new system—in use today in much of California and a few other locations—recovers vapors and prevents emissions during automobile fill ups. Union Oil was instrumental in the conversion to the balanced system it now uses for this vapor control. This system returns the vapors back into the underground tank.

Union's efforts in improved vapor recovery involved considerable research over many years by many people, including that made by Fred L. Hartley, president and chairman of Union Oil. He presented "The Smogless Automobile," a paper based on research conducted by him, C. C. (Dinty) Moore, and J. B. Gregory, at a June, 1959, meeting of the Air Pollution Control Association.

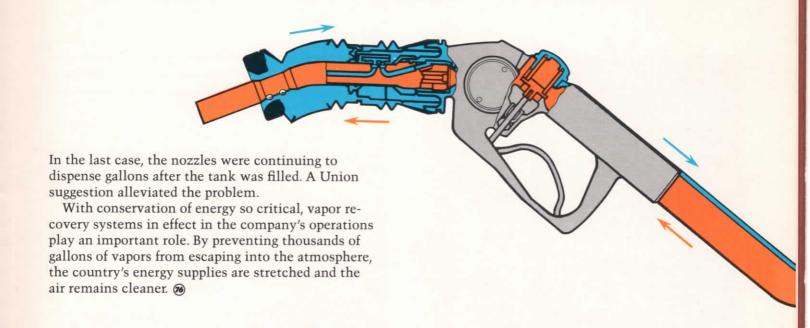
This paper pointed out that "if today's regulations governing industrial emissions were applied to the automobile, one would not be permitted to operate the vehicle. This is because today's automobiles have, as a result of their design and operating characteristics, five openings—or holes—which permit hydrocarbons to escape to the atmosphere."

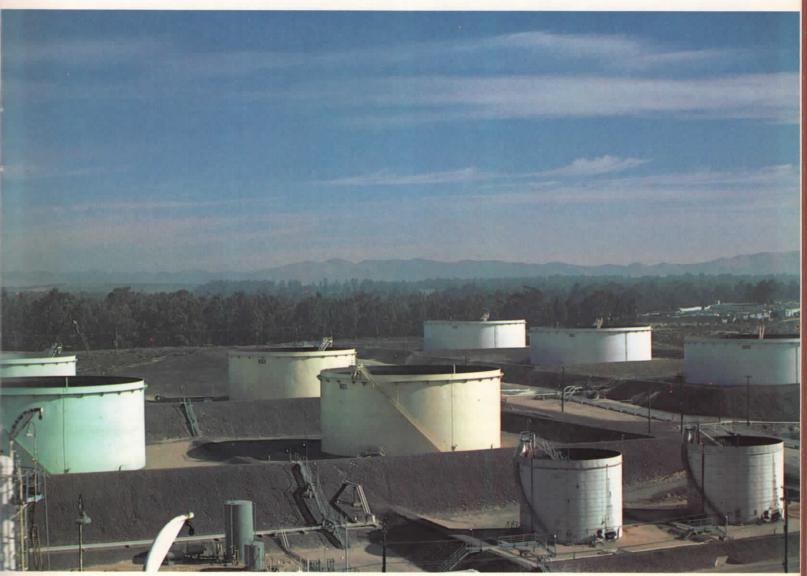
The study delved into an automobile's fuel system and suggested means to reduce or prevent evaporative emissions by either plugging external vent holes—such as those in the carburetor and gasoline tank, or by design modifications.

One such modification offered was a system to drain fuel in the carburetor bowl back into the gasoline tank immediately when the car was shut off. This would prevent evaporation caused by heat stored by the engine.

Continuing research led to Union's Dr. James L. Keller developing a process for a gas tank installation that operated on the same principle as the floating roof tank. After further work, a patent was issued to Union's Davis A. Skinner in 1971.

In addition to auto makers, Union has worked closely with equipment manufacturers on various vapor control projects, including improvements to automatic shutoffs for service station gas pump nozzles.





Storage tanks with floating roofs and stiff rubber seals reduce vapor emissions by 99 percent.

operations report

CORPORATE VICE PRESIDENTS ELECTED

Union Oil Company of California's Board of Directors has elected Joseph Byrne and Cloyd P. Reeg corporate vice presidents of the company.

Byrne will head Union's corporate industrial relations department. He had been divisional senior vice president, national marketing and operations coordination, for the company's Union 76 Division since 1979.

He joined Union in 1953 and has held a wide range of positions in refining, planning and marketing operations. Byrne holds a bachelor's degree in chemical engineering from Stanford University and master's and doctoral degrees from Massachusetts Institute of Technology, where he served as an assistant professor for three years.

A member of the American Institute of Chemical Engineers, the American Association for the Advancement of Science and the American Petroleum Institute, Byrne resides in Santa Ynez with his wife, Nancy. They have three children.

Reeg, who joined Union Oil in 1948, has held a wide variety of positions in the company's research organization. He was recently named president of the Union Science and Technology Division which is responsible for Union's research activities.

A member of the American Institute of Chemical Engineers, the National Petroleum Refiners Association, the American Petroleum Institute, and the World Affairs Council of Orange County, Reeg earned a bachelor's degree in chemical engineering from Ohio State University.

He resides in Fullerton with his wife, Bea. They have two children.

The following appointments were announced recently.

Daniel M. Waldorf has been named director of strategic planning in the Corporate Development Department. He was formerly manager of Union's Los Angeles Refinery and lives in Palos Verdes Estates, Cal.

Dean Laudeman was appointed vice president of exploration for the Union Oil and Gas Division. He previously served as vice president of exploration for Union Oil Company of Canada. He resides in Rancho Palos Verdes, Cal.

Neal E. Schmale was named director of the Corporate Economics and Budgets Department. He had been a senior planner in the former Corporate Planning and Evaluation Department. He is a resident of Manhattan Beach.

Wellman E. Branstrom has been appointed director of planning for the Union 76 Division, which conducts the company's refining, marketing and transportation operations. He had been manager of operations and profit planning in the division's western region. He lives in Huntington Beach, Cal.

S. Kessler Alley has been named vice president of refining and products research for Union's Science and Technology Division, the company's research and development operation. He had been manager of refining research. He lives in Brea, Cal.



Robert D. Campbell



Richard K. Eamer

Two New Directors

Robert D. Campbell, formerly chairman of the board of Newsweek, Inc., was elected to the company's board of directors on March 5.

Campbell, born in Billings, Montana, was educated at Northwestern University. After serving as vice president of Champion Textile Co. in Chicago, he joined Newsweek, Inc. in 1949, moving up in management ranks until he was selected chairman of the board in 1976. He retired from Newsweek in 1980.

While serving in the Air Force, Campbell rose to the rank of Brigadier General.

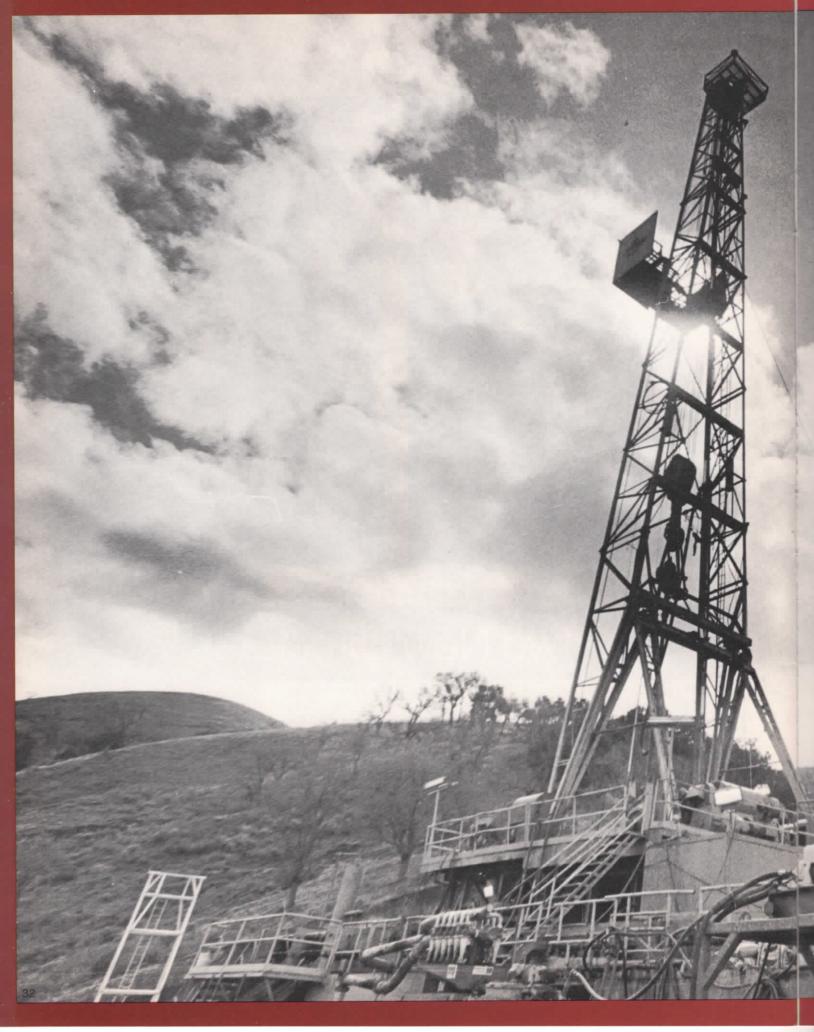
Campbell and his wife, Julia, reside in Rancho Mirage, California.

Richard K. Eamer, president and chairman of National Medical Enterprises Inc. (NME), was elected to the company's board of directors on March 5.

Eamer, a native of Long Beach, California, practiced law in Beverly Hills prior to forming NME, one of the leading propietary health care companies listed on the New York Stock Exchange.

He is a graduate of the University of California with a B.S. in accounting and an LL.B. from the USC School of Law. In addition to being a certified public accountant, Eamer is a member of the California and American Bar Associations.

He resides in Pacific Palisades with his wife, Eileen, and two children.





HEY ARE GENTLE, rolling hills with a presumptuous name, the Santa Susana Mountains. But in this picturesque range, oil production has been a way of life for decades. Not too far from here, in Piru, a town north of Los Angeles, the turn of the century witnessed an oil boom of sorts. The reverend Alex Hardie of Piru was paid \$25 to hold services for Union Oil workers in what was known as the Torrey camp, an oil-rich field that was to play an important part in making the fledgling company profitable.

Today, Torrey camp has long vanished and smaller fields have replaced the expanse of wooden derricks that once loomed on the horizon.

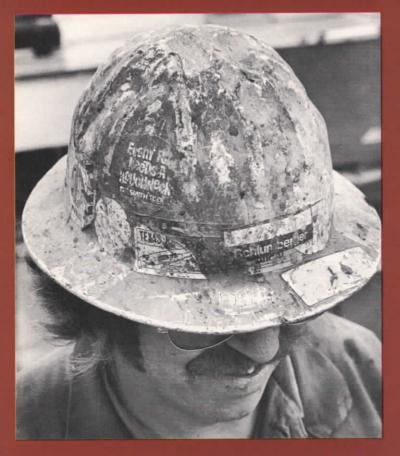
But here in the Santa Susana Mountains, Union still operates in a field where 13 wells produce a light gravity crude and two million cubic feet of natural gas every day.

Some of the wells in this 100 percent owned Union Oil field have been producing since the early 1960's. This additional well—called Broad Oaks 120—was actually spudded last February and reaches down 6,950 feet in what is known as the Sespe oil formation.

Early in the morning the rains come, but the drilling continues in weather that recombles more a Southeast Asian moreon than a warm.

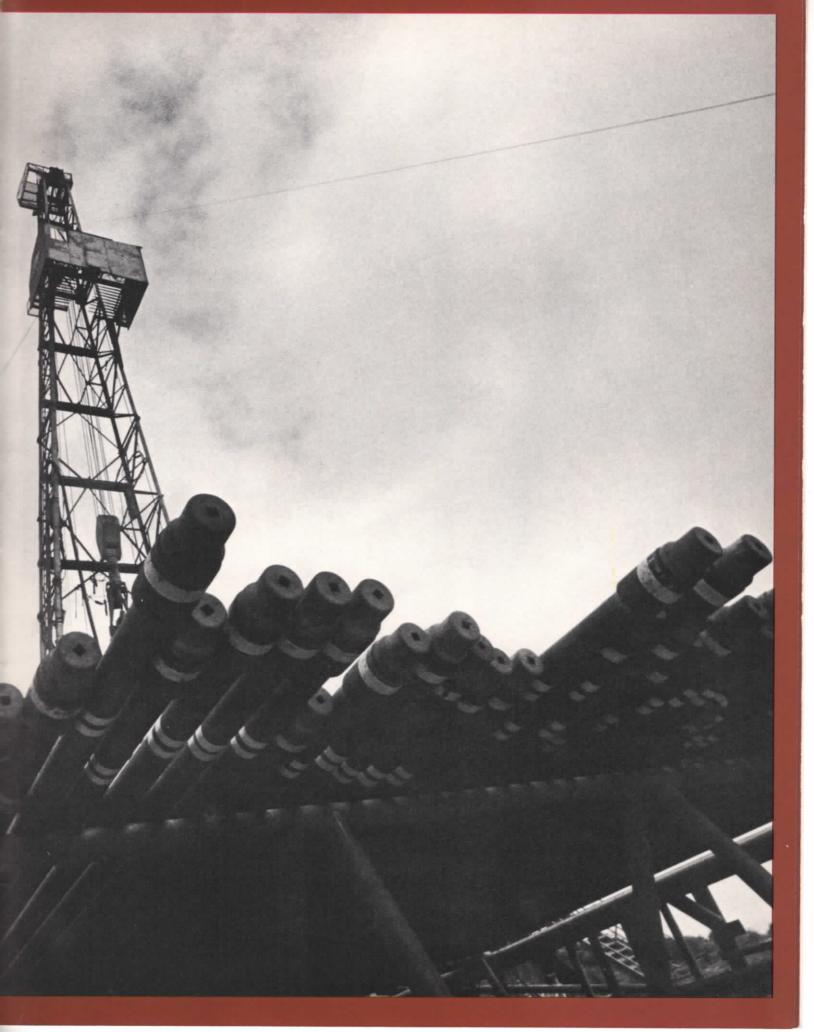
weather that resembles more a Southeast Asian monsoon than a warm southern California spring.

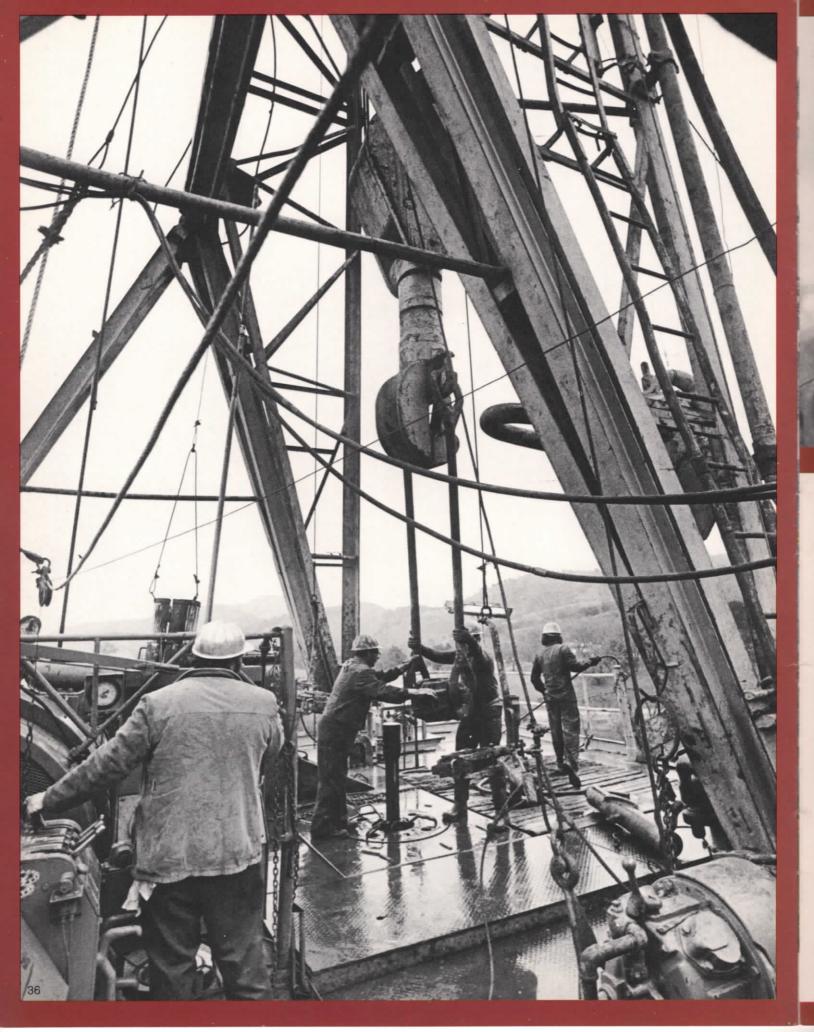


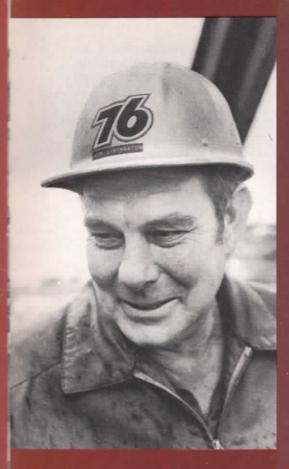




"Every one needs a roughneck," the sticker on the mud-splattered hard hat reads (left) but what the roughnecks definitely did not need today was rain to dampen their hopes of finishing the day's scheduled drilling on time. Meanwhile J. W. Todd, a tool pusher, (below left) takes advantage of the rain to save himself a trip to the water cooler. With rain still falling by mid-morning, the relatively narrow drilling pipes needed to tap this shallow California reservoir are stacked on support frames by the drilling rig.



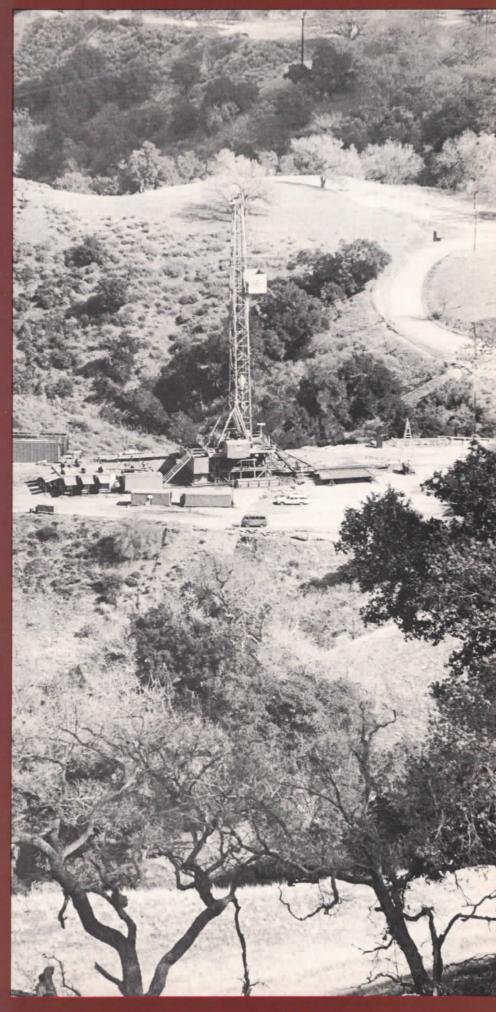




Union Oil's James W. Livingston, drilling foreman, keeps a close look on the activities of the crew working Broad Oaks 120.

As the weather becomes more inclement, the tool pushers prepare to make a connection in the well.

Later this month, the drilling rig in the hills will be replaced by a well that will be almost hidden by the brush. Eventually the oil from Broad Oaks 120 will wind up at the Union Oil Los Angeles refinery while the natural gas will be piped to the Santa Clara gas plant.





CORPORATE

MARCH 1981 40 YEARS LAWRENCE B. HIGBEE Union Oil Center 30 YEARS 25 YEARS ELIZABETH H. LAVERS Union Oil Center 20 YEARS ROBERT C. SCHOETTLER Schaumburg, II. 10 YEARS ERNEST L. BROWN Santa Rosa, Ca. SARA E. GIBSON ... Union Oil Center CATHERINE E. PETERSON ... Union Oil Center 5 YEARS JIMMY R. LUGENBEEL Union Oil Center STEVEN W. THOMAS Taft, Ca. **APRIL 1981 40 YEARS** GLORYN G. McKEE Union Oil Center 10 YEARS

UNION SCIENCE AND TECHNOLOGY DIVISION

5 YEARS

..... Sacramento, Ca.

BYRON C. MOBUS

GALE E. SMITH......Brea, Ca.

MAY 1981

40 YEARS
ROBERT L. SWITZER Brea, Ca.
35 YEARS
THOMAS L. KOWALSKI Brea, Ca.
30 YEARS
ARTIE L. SCOTTBrea, Ca.
25 YEARS
WILLIAM G. GROSS Brea, Ca.
15 YEARS
SIDNEY F. KRUPICKABrea, Ca.

UNION REAL ESTATE DIVISION

APRIL 1981 15 YEARS

PAULA M. YOUNGUnion Oil Center

UNION OIL AND GAS DIVISION

MARCH 1981

45 YEARS

40 YEARS

35 YEARS

DONALD B. NEWTONOrcutt, Ca.

30 YEARS

NOBLE L. CANTRELL ... Van, Tx.
ROYCE W. BROUSSARD ... Lafayette, La.
JAMES W. BURNSIDE ... Casper, Wy.

25 YEARS

ODEAN KEETER Santa Fe Springs, Ca.

20 TEARS

MARY K. VALENCIA Los Angeles, Ca.

15 YEARS

LYLE R. DAVIS, Sr. Orcutt, Ca.
CHATALYN C. NORMAL Midland, Tx.
WILLIAM D. POWERS. Santa Fe Springs, Ca.

10 YEARS

 BRIAN K. DAVID
 Moab, Ut.

 M. C. GRIFFIN, Jr.
 Ganado, Tx.

 JUDITH M. HOWICK
 Union Oil Center

 RUDOLPH LOPEZ
 Ventura, Ca.

5 YEARS
DAVID A. COLE Bakersfield, Ca. JOHN J. CORCORAN Sacramento, Ca. MARVIN G. MOSLEY Ardmore, Ok. EDWARD J. O'DONNELL Santa Fe Springs, Ca. HOWARD M. SANTILLAN Orcutt, Ca. MARK R. THOMAS Midland, Tx. JOHN D. TRAYLOR Ardmòre, Ok.
APRIL 1981
45 YEARS
SEBERT W. ESTEPWest Liberty, II.
40 YEARS
PAUL E. CRAVENSWest Liberty, II.
35 YEARS
LAWRENCE H. SMITH
30 YEARS
JAMES C. ABEL Midland, Tx. ROY A. KENDRICK Houma, La. LAWRENCE R. LEEK, Jr. Coallinga, Ca. V E. RUTHERFORD Orcutt, Ca. GRANTLEN O. SHANNAHAN Oklahoma City, Ok.
25 YEARS
JANIE R. MORRIS
20 YEARS
CLARK J. DUGAS Houma, La. FLOYD G. FLEMING Abbeville, La. DAVID L. KNUTSON Santa Paula, Ca.
15 YEARS
WILLIAM E. GOFFINETT Santa Fe Springs, Ca. ROBERT L. HEURICH Santa Fe Springs, Ca. DAVID E. JOHNSON Casper, Wy. GEORGE E. MOORE Midland, Tx. RAPHAEL A. POURCIAU Houma, La. BYRON R. SCOTT Taft, Ca. NANCY ALICE WATSON Orcutt, Ca.
10 YEARS
DORA L. ALCARAZ Los Angeles, Ca.

DORA L. ALCARAZ Los Angeles, Ca	а.
LEROY J. CHARLES Houma, La	à.
EDDIE J. ISTRE, Jr Houma, La	à.
RUBEN G. JARAMILLO Santa Paula, Ca	à.
JOY S. LOCKHARTLafayette, La	à.
GERRY L. SHAUL Orcutt, Ca	à.

5 YEARS

CLEMMIE H. ADKINS	Coalinga, Ca.
JAMES T. BRAXTON	Abbeville, La.
MELVIN W. COATS, Jr	Santa Fe Springs, Ca.
ROBERT D. CONKLIN	Olney, II.
CLIFTON FAULKNER	
MARK V. FILEWICZ	Ventura, Ca.
WILLIAM R. GREEN	Andrews, Tx.
FRANK R. POLLREISZ	
ERIS A. PORCHE	Abbeville, La.
JOHN R. ROHNER	
WALTER G. TEZENO	Abbeville, La
JAMES R. WEBSTER	

UNION 76 DIVISION

MARCH 1981

40 YEARS

ROBERT C. BEARDEN	Schaumburg, II.
WALLACE J. BLAYLOCK	Los Angeles Terminal
WILLARD B. BOZYCH	Chicago Refinery
DONALD L. BRADLEY	Anchorage, Ak.
HENRY W. DANERI	San Francisco Refinery
GEORGE A. LaFORTUNE	Los Angeles Refinery
DELOS L. C. OSTRANDER	
Pure Transportation Co	Olney, II.
ERCELL H. SMITH	Santa Paula, Ca.

35 YEARS

FRANK B. BOARD	San Francisco Refinery
LESTER P. BROWN	Beaumont Refinery
ALBERT M. CARGO	San Francisco Refinery
CHARLES F. COOPER	Beaumont Refinery
LEROY CEDRIC E. FAUNT	Coalinga, Ca.
WILSON J. FREDERICK	Beaumont Refinery
LLOYD E. HANSON	Los Angeles Refinery
JOHN R. KENNEDY	Santa Maria Refinery
CHARLIE E. LOFTON	San Francisco Refinery
C. G. LONGFELLOW, Jr	San Luis Obispo, Ca.
MANSFIELD P. LOWERY	

DANIEL F. MURPHY	San Francisco Refinery	MICHAEL W. PELTZ	JAMES L. PRINCE Schaumburg, II.
WALTER POLLARD		RUSSELL J. PROKUSKI Schaumburg,	
JAMES L. POWELL	Begument Refinery	THOMAS J. PRUSA Los Angeles, C.	
FORREST S. PURKEY		LARRY W. ROBERTS Portland, C	
		THOMAS K SCHUMACHED Les Appeles C	JAMIE W. VIESSELMAN
ALBERT H. SIMPSON	Schaumburg, II.	THOMAS K. SCHUMACHER Los Angeles, C.	5 YEARS
OTIS W. THOMAS, Jr	Beaumont Refinery	RICHARD J. SURAY	
20 VE		W. H. Barber Co	, DOIL E. DEMID
30 YEA	ARS	WILFRED B. TURNER Edmonds Termin	
EDDIE S. ANDERSON	Chicago Refinery	SIPUON UONGLos Angeles Termin	RONALD C. BRINKMAN Santa Maria Refinery
GEORGE BALLEW			JAMES R. CAMPBELL Los Angeles Terminal
LEONARD H. BERGLUND		APRIL 1981	STUART M. CANNES
DELMAR D. BRADBURY		40 VEADO	JAMES M. FLEMINGAnchorage, Ak.
ROBERT BROOME	Chicago Refinery	40 YEARS	JOHN A. GILSKI
		SAM BODZIN Los Angeles Termina	NADOLO CUEDDEDO Los Appeles Petiperu
LEO BURNETT		OLIVER F. DAVENPORT Birmingham, A	MANOISO GOLINENO Los Angoles Heimery
JOHN E. CAMPBELL	San Francisco, Ca.	RAY A. HENDREN Los Angeles Termina	WATGATET O. TIALE
JOHN G. ENGLISH	Stockton, Ca.		GENALDINE N. LODEANO
MAX M. ETTER	Chicago Refinery	PAUL D. HILEMAN	r dre transportation co
THOMAS P. FABEK	Chicago Refinery	GEORGE L. PERINI Chicago Refine	GARY M. LEFEBVREPortland, Or.
PHILIP L. GLASS	Portland, Or.	WILLIAM A. VON DER HEIDE San Francisco Refiner	LANCE M. McGILLIARDSchaumburg, II.
WILLIAM H. HOLMES			RUBEN MUNOZLos Angeles Refinery
REYNOLD A. JACOBSON		35 YEARS	GREGORY S. SIDOR Schaumburg, II.
ARTHUR L. JOHNSON	Chicago Refinery	ALLEN C. BARNES San Francisco Refiner	
ARTHUR L. JOHNSON	Chicago Heilhery	WILLIAM S. BIGGERS Beaumont Refiner	
LYLE P. LOFLIN			
WILLIS J. LUEBS	Chicago Refinery	JOHN C. BUSTLESchaumburg,	
PAUL F. MILLER	Los Angeles Refinery	ERIN P. CARTER San Francisco Refiner	
THOMAS G. THOMPSON	Dayton, Oh.	JOHN CEBALLOS San Francisco Refiner	
		WILFORD J. CRAIGSanta Paula, Ca	
25 YEA	ARS	HOWARD L. FARRASchaumburg,	5 YEARS
WILLIAM J. BODIFORD		JOHN H. HALLERAN Schaumburg, I	3 TEARS
		MAXWELL T. HASTYBirmingham, A	
REED RIDING	Los Angeles Hefinery	JACK C. LEPPER Chicago Refiner	
JOHN W. MECH		JAMES M. LOUGHRIDGE San Francisco Refiner	
W. H. Barber Co	Chicago, II.	FRED G. MANDESLos Angeles, Ca	
RONALD R. RUNGE	Schaumburg, II.	CARL T. MARSHALL	
CARROLL A. SCOGIN	Birmingham, Al.		
RICHARD E. STRAUSS		AMADOR P. RUBIO Santa Maria Refiner	
		OTTO A. SALO Santa Maria Refiner	UNION CHEMICALS DIVISION
20 YEA	ARS	EDWARD G. SOUZA San Francisco Refine	
NORTH A FINELI	11-# 5-1-1 11	LOUIS C. WEBERSchaumburg,	
NORMA A. ELWELL			MARCH 1981
PATSY R. HARDY		30 YEARS	30 YEARS
RONALD E. NESS	Bakersfield, Ca.	DOREDT H. RDAUN. Lee Assoles Refines	
GARY C. PIATANESI	San Francisco, Ca.	ROBERT H. BRAUN Los Angeles Refiner	
MYRON S. PODGURSKI	Hoffman Estates, II.	CLARENCE R. CLARK, Jr Chicago Refiner	
LEWIS E. SMITH	Minneapolis, Mn.	BENTON H. FIEDLER Schaumburg,	25 YEARS
LETTIO E. OIIITTI IIITTI	The state of the s	JOYCE N. FOWLER	
15 YEA	ARS	Pure Transportation Co Van, T	
	2015-E	RAY G. HENDERSON Chicago Refiner	LEON E. HINKLELa Mirada, Ca.
ELFRIEDE ELLA ADAMS	Richmond Terminal	GEORGE R. JOHNSTONLos Angeles Refiner	,
RONALD D. BATTE	Birmingham, Al.	JEANETTE D. JONES Schaumburg,	
ROBERT P. FRANK	San Francisco, Ca.	HOMER F. LAMBERT Atlanta, Gr	
JACK H. GREEN	San Francisco Refinery	JOHN R. LORGE Los Angeles Refiner	
DOUGLAS JOHNSON	Los Angeles, Ca.		
DOUGLAS JOHNSON	Los Angeles, Ca.	DON E. MERRITTSchaumburg,	
JAMES B. KNASEL	Los Angeles, Ca. Cincinnati, Oh.	WALTER B. SARTORI Chicago Refiner	/
JAMES B. KNASEL	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery		/
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner	15 YEARS
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi.	WALTER B. SARTORI Chicago Refiner	JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca.	WALTER B. SARTORI	15 YEARS JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca.	WALTER B. SARTORI	15 YEARS JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal	WALTER B. SARTORI	15 YEARS JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, I VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Cc EDWIN G. HYDER Los Angeles Refiner	JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, 1 VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI	JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci	JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery Charlotte, N.C.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci	JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, I VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, C EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, C: ANDRE J. ROY Torrance, C:	JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Charlotte, N.C. Chicago Refinery Schaumburg, II.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, C: EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, C: ANDRE J. ROY Torrance, C: GERALD W. SCHWIMLEY Schaumburg, II	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY. Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Charlotte, N.C. Chicago Refinery Schaumburg, II.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, I VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, C EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, C: ANDRE J. ROY Torrance, C:	JOHN H. JONES
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Schaumburg, II. Chicago Refinery	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, IVICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci ANDRE J. ROY Torrance, Ci GERALD W. SCHWIMLEY Schaumburg, IVICTOR S	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery Chicago Refinery Schaumburg, II. Chicago Refinery Portland, Or.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE SAN Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, I VICTOR J. EVANS SANTA MARÍA REfiner ROBERT F. GLEASON SAN FRANCISCO, CO EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO REdding, CI ANDRE J. ROY TOTRANCE, CI GERALD W. SCHWIMLEY Schaumburg, I 20 YEARS GAGE H. GOODEMOTE Main, F.	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, TX. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Charlotte, N.C. Chicago Refinery Schaumburg, Il. Chicago Refinery Portland, Or. Detroit, Mi.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci ANDRE J. ROY Torrance, Ci GERALD W. SCHWIMLEY Schaumburg, I 20 YEARS GAGE H. GOODEMOTE Miami, F R. R. HUDDLESTON San Francisco Refiner	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Charlotte, N.C. Chicago Refinery Schaumburg, Il. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, C: EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, C: ANDRE J. ROY Torrance, C: GERALD W. SCHWIMLEY Schaumburg, II 20 YEARS GAGE H. GOODEMOTE Miami, F. R. HUDDLESTON San Francisco Refiner R. B. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL DONALD R. HARDWICK	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery Chicago Refinery Schaumburg, Il. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Dayton, Oh.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, I VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci ANDRE J. ROY Torrance, Ci GERALD W. SCHWIMLEY Schaumburg, I 20 YEARS GAGE H. GOODEMOTE Miami, F. R. R. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin LOUIS D. TROST San Francisco Refiner	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca. ROBERT HALL Kenai, Ak.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL DONALD R. HARDWICK GLENNETTE C. HOFMANN	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery Charlotte, N.C. Chicago Refinery Schaumburg, II. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Chardotte, N.C. Chicago Refinery Schaumburg, II. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Dayton, Oh. Schaumburg, II.	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci ANDRE J. ROY Torrance, Ci GERALD W. SCHWIMLEY Schaumburg, I 20 YEARS GAGE H. GOODEMOTE Miami, F R. R. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin LOUIS D. TROST San Francisco Refiner DOUGLAS N. TURNBULL Edmonds Termin	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca. ROBERT HALL Kenai, Ak. LESLIE KOSYDAR Kenai, Ak. LESLIE KOSYDAR Kenai, Ak.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL DONALD R. HARDWICK GLENNETTE C. HOFMANN STEPHEN E. LAGGER	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Charlotte, N.C. Chicago Refinery Schaumburg, II. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Dayton, Oh. Schaumburg, II. Chicago Refinery	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, C: EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, C: ANDRE J. ROY Torrance, C: GERALD W. SCHWIMLEY Schaumburg, I: 20 YEARS GAGE H. GOODEMOTE Miami, F R. R. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin LOUIS D. TROST San Francisco Refiner DOUGLAS N. TURNBULL Edmonds Termin GEORGE K. YAMAMOTO Honolulu, F	15 YEARS JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca. ROBERT HALL Kenai, Ak. LESLIE KOSYDAR Kenai, Ak. FLOYD McGAHAN Kenai, Ak.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL DONALD R. HARDWICK GLENNETTE C. HOFMANN STEPHEN E. LAGGER KENNETH A. LARSON	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal ARS Chicago Refinery Chicago Refinery Chicago Refinery Schaumburg, II. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Dayton, Oh. Schaumburg, II. Chicago Refinery Chicago Refinery Schaumburg, II. Chicago Refinery Dayton, Oh. Schaumburg, II. Chicago Refinery Santa Maria Refinery	WALTER B. SARTORI Chicago Refiner CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci ANDRE J. ROY Torrance, Ci GERALD W. SCHWIMLEY Schaumburg, I 20 YEARS GAGE H. GOODEMOTE Miami, F R. R. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin LOUIS D. TROST San Francisco Refiner DOUGLAS N. TURNBULL Edmonds Termin	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca. ROBERT HALL Kenai, Ak. LESLIE KOSYDAR Kenai, Ak. FLOYD McGAHAN Kenai, Ak. FLOYD McGAHAN Kenai, Ak. MARILYN NEWELL La Mirada, Ca.
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DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL DONALD R. HARDWICK GLENNETTE C. HOFMANN STEPHEN E. LAGGER KENNETH A. LARSON WILLIAM LAURIE DALE J. MARONTO JAMES R. MCKINNEY, Jr. WILLIAM J. MUELLER JOHNNY R. PEACOCK WILLIAM J. FALOCK WILLIAM J. STINDE LEON A. ULFERS SHARON L. VALLEJO 5 YEA DEBORAH K. BEATH JOHN M. BEDLION JANET E. BOULTER REBEKAH J. CORBIN JOHN M. DAY ROBERT C. DAY LINDA J. ECKEL NATHANIEL FOSTER CARLOS V. FRIAS BONNY J. GOLINO FRANK C. KRUGER BETTY J. LARSEN PAULA L. NOREIKO	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Schaumburg, II. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Dayton, Oh. Schaumburg, II. Chicago Refinery Chicago Refinery Dayton, Oh. Schaumburg, II. Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Santa Maria Refinery Chicago Refinery Sant Maria Refinery San Francisco Refinery Seatumburg, II. Schaumburg, II. Schaumburg, II. Schaumburg, II. Schaumburg, II. Richmond Terminal Richmond Terminal Wildwood, Fl. Chicago Refinery	WALTER B. SARTORI CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci ANDRE J. ROY Torrance, Ci GERALD W. SCHWIMLEY Schaumburg, I 20 YEARS GAGE H. GOODEMOTE Miami, F R. R. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin LOUIS D. TROST San Francisco Refiner GEORGE K. YAMAMOTO Honolulu, F ANDREW A. ZYWICKE Schaumburg, 15 YEARS HARRIS T. CLABAUGH Phoenix, A RAMON F. DECHANT Los Angeles Refiner JAMES A. HAYASHI Los Angeles Refiner JAMES A. HAYASHI Los Angeles Refiner JAMES A. HAYASHI Los Angeles Refiner RERRY L. KENNEDY Cincinnati, O GLEN A. MacMASTER Los Angeles Refiner ROBERT W. MCCABE Seattle, W CHARLES W. REED BAY City, M KLEPPER MASON SCOTT Los Angeles Refiner 10 YEARS KARIN M. ADAMS San Francisco, C BARBARA E. DAVIS Wildwood, F THOMAS E. GLAZIER Anchorage, A JUNIOR L. GOLDEN PURE TRANSPORTANICO HONOING, O DAVID G. HOV Portland, C DAVID G. HOV PORTLAND DONICIO LA	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca. ROBERT HALL Kenai, Ak. LESLIE KOSYDAR Kenai, Ak. MARILYN NEWELL La Mirada, Ca. LARRY W. PROPST Charlotte, N.C. TIMOTHY J. WILKES Charlotte, N.C. DAVID W. ISAAC Charlotte, N.C. APRIL 1981 25 YEARS FRANK DLOUHY Union Oil Center ELSIE HUFSTETLER Clark, N.J. JOHN K. LASKEY Conshohocken, Pa. 20 YEARS FREDERICK G. HOWARD Vancouver, Wa. ROBERT McMAHON Union Oil Center 15 YEARS PERRY A. FRIDAY La Mirada, Ca. LEE KRON Rolling Meadows, II. WILLIAM M. NUNN La Mirada, Ca. ROBERT A. WAMSLEY Charlotte, N.C. 10 YEARS BEA BARTHELMEH LA Mirada, Ca. TOMMY BARNETTE Charlotte, N.C.
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL DONALD R. HARDWICK GLENNETTE C. HOFMANN STEPHEN E. LAGGER KENNETH A. LARSON WILLIAM LAURIE DALE J. MARONTO JAMES R. MCKINNEY, Jr. WILLIAM J. MUELLER JOHNNY R. PEACOCK WILLIAM J. FALOCK WILLIAM J. STINDE LEON A. ULFERS SHARON L. VALLEJO 5 YEA DEBORAH K. BEATH JOHN M. BEDLION JANET E. BOULTER REBEKAH J. CORBIN JOHN M. DAY ROBERT C. DAY LINDA J. ECKEL NATHANIEL FOSTER CARLOS V. FRIAS BONNY J. GOLINO FRANK C. KRUGER BETTY J. LARSEN PAULA L. NOREIKO	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Schaumburg, II. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Dayton, Oh. Schaumburg, II. Chicago Refinery Chicago Refinery Dayton, Oh. Schaumburg, II. Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Santa Maria Refinery Chicago Refinery Sant Maria Refinery San Francisco Refinery Seatumburg, II. Schaumburg, II. Schaumburg, II. Schaumburg, II. Schaumburg, II. Richmond Terminal Richmond Terminal Wildwood, Fl. Chicago Refinery	WALTER B. SARTORI CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, C. EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, O. DANIEL PIRO Redding, C. ANDRE J. ROY Torrance, C. GERALD W. SCHWIMLEY Schaumburg, I. 20 YEARS GAGE H. GOODEMOTE Miami, F. R. R. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin LOUIS D. TROST San Francisco Refiner BOUGLAS N. TURNBULL Edmonds Termin GEORGE K. YAMAMOTO Honolulu, F. ANDREW A. ZYWICKE Schaumburg, 15 YEARS HARRIS T. CLABAUGH Phoenix, A. RAMON F. DECHANT Los Angeles Refiner JAMES A. HAYASHI Los Angeles Refiner LOWERS A. HAYASHI LOS Angeles Refiner RERY L. KENNEDY Cincinnati, O. GLEN A. MACMASTER Los Angeles Refiner ROBERT W. McCABE Seattle, W. CHARLES W. REED Seattle, W. CHARLES W. REED Seattle, W. KLEPPER MASON SCOTT Los Angeles Refiner 10 YEARS KARIN M. ADAMS San Francisco, C. BARBARA E. DAVIS Wildwood, F. THOMAS E. GLAZIER Anchorage, A. JUNIOR L. GOLDEN PURE Transportation Co. Van, T. STEVE M. HALL Columbus, O. DAVID G. HOV Portland, C. DAVID G. HOV PORTLANDER LIY M. MAR San Francisco, C. LIY M. MAR	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca. ROBERT HALL Kenai, Ak. LESLIE KOSYDAR Kenai, Ak. MARILYN NEWELL La Mirada, Ca. LARRY W. PROPST Charlotte, N.C. TIMOTHY J. WILKES Charlotte, N.C. TIMOTHY J. WILKES Charlotte, N.C. DAVID W. ISAAC Charlotte, N.C. APRIL 1981 25 YEARS FRANK DLOUHY Union Oil Center ELSIE HUFSTETLER Clark, N.J. JOHN K. LASKEY Conshohocken, Pa. 20 YEARS FREDERICK G. HOWARD Vancouver, Wa. ROBERT A. WAMSLEY Charlotte, N.C. ROBERT A. WAMSLEY Charlotte, N.C. ROBERT A. WAMSLEY Charlotte, N.C. Charlotte, N.C
DOUGLAS JOHNSON JAMES B. KNASEL HORACE G. LUTZ ROBERT A. ODELL WARREN A. SPROULE SONJA M. STANFIELD DAVID WINK 10 YEA PHILIP E. BUMBLAUSKAS MICHAEL R. CLEM BERNARD M. COLEMAN RICHARD L. FAVERO DOROTHY E. FULTON JAMES T. GANT MICHAEL H. GEIGLE THOMAS H. GRIMES GERALD A. GROCHMAL DONALD R. HARDWICK GLENNETTE C. HOFMANN STEPHEN E. LAGGER KENNETH A. LARSON WILLIAM LAURIE DALE J. MARONTO JAMES R. MCKINNEY, Jr. WILLIAM J. MUELLER JOHNNY R. PEACOCK WILLIAM J. MUELLER JOHNNY R. PEACOCK WILLIAM J. STINDE LEON A. ULFERS SHARON L. VALLEJO 5 YEA DEBORAH K. BEATH JOHN M. BEDLION JANET E. BOULTER REBEKAH J. CORBIN JOHN M. DAY ROBERT C. DAY LINDA J. ECKEL NATHANIEL FOSTER CARLOS V. FRIAS BONNY J. GOLINO FRANK C. KRUGER BETTY J. LARSEN PAULA L. NOREIKO TIMOTHY F. O'BRIEN	Los Angeles, Ca. Cincinnati, Oh. Los Angeles Refinery Wildwood, Fl. Milwaukee, Wi. San Francisco, Ca. Richmond Terminal Chicago Refinery Chicago Refinery Chicago Refinery Schaumburg, II. Chicago Refinery Schaumburg, II. Chicago Refinery Detroit, Mi. Chicago Refinery Portland, Or. Detroit, Mi. Chicago Refinery Schaumburg, II. Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery Santa Maria Refinery Chicago Refinery Chicago Refinery Chicago Refinery South Holland, II. Chicago Refinery Chicago Refinery Chicago Refinery Chicago Refinery South Holland, II. Chicago Refinery San Francisco, Ca. RS Beaumont Refinery San Francisco Refinery Santa Maria Refinery Los Angeles, Ca. San Francisco Refinery South Holland, II. Schaumburg, II. Schaumburg, II. San Francisco Refinery South Holland, II. Richmond Terminal Wildwood, Fl. Chicago Refinery Los Angeles Terminal	WALTER B. SARTORI CHARLES N. WHITESIDE: San Francisco Refiner 25 YEARS HUMBERTO L. DIAZ Schaumburg, VICTOR J. EVANS Santa Maria Refiner ROBERT F. GLEASON San Francisco, Ci EDWIN G. HYDER Los Angeles Refiner CARROLL H. NICHOLS Dayton, OI DANIEL PIRO Redding, Ci ANDRE J. ROY Torrance, Ci GERALD W. SCHWIMLEY Schaumburg, I 20 YEARS GAGE H. GOODEMOTE Miami, F R. R. HUDDLESTON San Francisco Refiner ROBERT J. SOMMERSETH Edmonds Termin LOUIS D. TROST San Francisco Refiner GEORGE K. YAMAMOTO Honolulu, F ANDREW A. ZYWICKE Schaumburg, 15 YEARS HARRIS T. CLABAUGH Phoenix, A RAMON F. DECHANT Los Angeles Refiner JAMES A. HAYASHI Los Angeles Refiner JAMES A. HAYASHI Los Angeles Refiner JAMES A. HAYASHI Los Angeles Refiner RERRY L. KENNEDY Cincinnati, O GLEN A. MacMASTER Los Angeles Refiner ROBERT W. MCCABE Seattle, W CHARLES W. REED BAY City, M KLEPPER MASON SCOTT Los Angeles Refiner 10 YEARS KARIN M. ADAMS San Francisco, C BARBARA E. DAVIS Wildwood, F THOMAS E. GLAZIER Anchorage, A JUNIOR L. GOLDEN PURE TRANSPORTANICO HONOING, O DAVID G. HOV Portland, C DAVID G. HOV PORTLAND DONICIO LA	JOHN H. JONES. Charlotte, N.C. DONALD L. SMITH Charlotte, N.C. WALTER M. TARPLEY Houston, Tx. LORRAINE WISWEDEL St. Clair Shores, Mi. 10 YEARS WALLACE E. BRODEUR Schaumburg, II. JAMES E. POPPENHAGEN Rolling Meadows, II. CHARLES R. SHEEHAN Charlotte, N.C. 5 YEARS PATRICIA CARTER La Mirada, Ca. DAVID FAY Kenai, Ak. JAMES FERGUSON Brea, Ca. ROBERT HALL Kenai, Ak. LESLIE KOSYDAR Kenai, Ak. MARILYN NEWELL La Mirada, Ca. LARRY W. PROPST Charlotte, N.C. TIMOTHY J. WILKES Charlotte, N.C. TIMOTHY J. WILKES Charlotte, N.C. DAVID W. ISAAC Charlotte, N.C. APRIL 1981 25 YEARS FRANK DLOUHY Union Oil Center ELSIE HUFSTETLER Clark, N.J. JOHN K. LASKEY Conshohocken, Pa. 20 YEARS FREDERICK G. HOWARD Vancouver, Wa. ROBERT A. WAMSLEY Charlotte, N.C. ROBERT A. WAMSLEY Charlotte, N.C. ROBERT A. WAMSLEY Charlotte, N.C. Charlotte, N.C
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Service

5 YEARS

ERLEND HOAG	Kenai, Ak.
RICHARD L. KUSTIN	
DANIEL M. LEE	Charlotte, N.C.
JOHN McCAULEY	Aloha, Or.
JOSEPH A. PASCUAL	
HERBERT ROOPER	Kenai, Ak.
BILLY B. SMITH	Charlotte, N.C.
RAY A. THOMAS	Charlotte, N.C.

UNION INTERNATIONAL DIVISION

MARCH 1981

30 YEARS

10 VEARS

BRIAN W. G. MARCOTTE......Union Oil Center

5 YEARS

APRII 1981

30 YEARS

5 YEARS

ROBERT D. FEINGOLDUnion Oil Center MURRAY G. GREENWOOD. JAMES R. ISHAM ... Union Oil Center GEORGE JOHNSTONE Union Oil Center

UNION OIL COMPANY OF CANADA LIMITED

MARCH 1981

30 YEARS

C. W. DUMETT, Jr. Calgary, Alberta

15 YEARS

5 YEARS

APRIL 1981

15 YEARS

CHARLES T. MAXWELL Calgary, Alberta

10 YEARS

..... Fort St. John, B.C. MARCEL LEVAC

5 YEARS

DON BROWN Grand Prairie, Alberta

UNION ENERGY MINING DIVISION

MARCH: 1981

5 YEARS

ROBERT D. KETTERLING Casper, Wy.

MOLYCORP

MARCH 1981

KEITH STEEVER...... Mountain Pass, Ca.

15 YEARS

TERRY FITZGERALD	Mountain Pass, Ca.
EDDIE GARCIA	Questa, N.M.
CLAUDIO RAEL	Questa, N.M.

APRIL 1981

15 YEARS

WILLIAM CRABTREE Mountain Pass, Ca.

10 YEARS

JUAN TRUJILLOQuesta, N.M.

5 YEARS

KATHLEEN CARPENTER Louviers, Co.

JAMES FRENCH Mountain Pass, Ca. CHRIS WELCH Louviers, Co.

POCO GRAPHITE

MARCH 1981

5 YEARS

DANNY STYLES Decatur, Tx.

JOBBERS AND DISTRIBUTORS

MARCH 1981

45 YEARS

CITIZENS OIL CO. Gaffney, S.C.

30 VEARS

LES A. ESPOSITO San Pedro Marine, Ca.

25 YEARS

D. J. HORSLEY Klamath Falls, Or. SHORE OIL CO. St. Clair Shores, Mi.

GURLEY OIL CO. INC. Birmingham, Al. SCHULTE OIL CO. Grand Marais, Mn.

15 YEARS

WILLIAMS OIL CO. Tallahassee, Fl.

10 YEARS

BRANDON & HULL Greenville, Tn. DOWNTOWN MINUTE CAR WASH, INC. Minneapolis, Mn. SECURITY OIL CO. Concord, N.C. SHIBLEY OIL CO. .. Morristown, Tn.

5 YEARS

CARPENTER OIL CO......Newark, Oh. K & P OIL CO. ... Grundy, Va.

APRIL 1981

55 YEARS

35 YEARS

LIBERTY OIL & GAS CO. West Liberty, Oh. WILLIS OIL CO...... Anderson, In.

30 YEARS

BOICE & BARBEE Nogales, Az. KENDALL OIL CO...... Park Rapids, Mn.

25 YEARS

CLIPPER YACHT CO...... Sausalito, Ca.

20 YEARS

LINCOLN OIL SERVICE Normal, II.

15 YEARS

CLARK OIL CO. Eufaula, AI.
R. W. RIPLEY Battle Mountain, Nv.

10 YEARS

KNOWLES OIL CO. INC. Riverview, Mi. MARKLINE OIL CO..... . Troy, Mi. MYERS & SON CO. So. Whitley, In.

RETIREMENTS

NOVEMBER 1980

N. HENRI MASARKY, Molycorp Denver, Co..... August 1, 1965

DECEMBER 1980

EUGENE M. AUSTIN, W. H. Barber Oil Minneapolis, Mn... January 2, 1947 PAT C. CLARK, Union 76 Division San Francisco, Ca..... . November 11, 1945 GEORGE B. CREED, Union 76 Division HAROLD EDWARDS, Pure Transportation
Beaumont Tv Beaumont, Tx. LOIS M. ERICKSON, W. H. Barber Oil

Minneapolis, Mn... April 30, 1937 LOUIS A. FALGOUT, Sr., Oil and Gas Delcambre La November 21, 1950 PAUL A. FISCHBACH, W. H. Barber Oil

January 28, 1958 WILLIAM H. GRAHAM, W. H. Barber Oil Minneapolis, Mn. February 24, 1937 ROBERT H. HUBER, W. H. Barber Oil

Minneapolis, Mn. ... January 21, 1946 CHARLES E. LIVESAY, Union 76 Division San Francisco, Ca..... .. November 17, 1964

GEORGE E. MOSHOLDER, Union Chemicals

Minneapolis, Mn. May 4, 1948 LEONARD A. RABE, W. H. Barber Oil ... April 8, 1948

Minneapolis, Mn.. ...January 21, 1946

ROBERT C. SERPE, W. H. Barber Oil August 4, 1953 St. Paul, Mn. EARL D. SIMKINS, Union 76 Division

JANUARY 1981

CARL E. BOGUE, Union 76 Division Lindale, Tx.

GORDON L. BOYCE, Union 76 DivisionJune 26, 1944 Lockport, II. ...January 5, 1940 ROBERT L. CAMPBELL, Union 76 Division Downers Grove, II. Decer December 29, 1941

ROBERT W. CHESTNUTT, Union 76 Division .. March 25, 1947

Walnut Creek, Ca. December 3, 1945 RALPH O. CLARK, Corporate May 23, 1939 Torrance, Ca. THOMAS L. DIVER, Oil and Gas Olney, II... October 1, 1938

WALTER J. DUMONTIER, Oil and Gas DAVID A. DUNN, Oil and Gas ... March 1, 1952

FORREST S. ELLEMAN, Union 76 Division ...January 27, 1947 Inverness, II...

NEIL R. FAGERBOURG, Oil and Gas

Elk Grove Village, IIJuly 18, 1960 MARGARET T. GRANQUIST. Union 76 Division Barrington, II. August 28, 1961 JAMES N. GRAY, Union 76 Division

Beaumont, Tx. . . February 5, 1951 ROBERT H. HARRISON, Union 76 Division

J. C. HODGENS, Oil and Gas Porum, Ok. August 23, 1948 EMMETT C. HOWELL, Oil and Gas

Van. Tx.July 20, 1945 ALVA O. JENSEN, Molycorp

..... September 23, 1970

Hawthorne, Ca.. May 4, 1953 PHILIP K. KIBBE, Union 76 Division

Mission, Ks. August 22, 1960 GAIL A. KIRWAN, Union 76 Division

Midlothian, II. .. August 14, 1951 CHARLIE E. LOFTON, Union 76 Division

Rodeo, Ca.June 6, 1946 CLAUDE C. MALONEY, Jr., Oil and Gas October 25, 1948 Midland, Tx. .

HENRY W. McCALL, Oil and Gas Midland, Tx. . . August 16, 1949

JOSEPH M. McGARAH, Union 76 Division . October 1, 1952 Heth, Ar.October
WILLIAM A. MIERTSCHIN, Jr., Union 76 Division Beaumont, Tx.

.....June 1, 1948 JACK J. MYER. Molycorp

WILLIAM A. NABERS, Oil and Gas Avenal, Ca. April 30, 1940 LOREN L. NEFF, Science and Technology Fullerton, Ca. July 17, 1943 GORDON W. NELSON, Union 76 Division Beaumont, Tx. February 24, 1948 OLIVER C. NELSON, Oil and Gas Santa Maria, Ca. April 23, 1953 WILLIAM D. NEWHALL, Union 76 Division Lomita, Ca. December 4, 1950 JOSEPH O. NORTH, Union 76 Division Napa, Ca. June 18, 1942 RICHARD W. ODELL, Union Chemicals Crest Hill, II. March 1, 1957 ANTHONY PALUMBO, Union 76 Division Richmond, Ca. September 7, 1950 FRANCIS A. PATE, Science and Technology Highland, Ca. September 17, 1945 HAROLD E. PAULUS, Union 76 Division	LESLIE E. MANNING, Union 76 Division Vallejo, Ca. February 26, 1943 THOMAS C. MAYS, Union 76 Division Beaumont, Tx. January 3, 1949 OTIS N. MEADOR, Union Chemicals Pittsburg, Ca. May 4, 1960 JOHN MEEKMA, Interstate A/T Stop Dyer, In. October 16, 1971 HAROLD L. NEWEL, Union 76 Division Long Beach, Ca. February 18, 1952 JONAH J. QUICK, Sr., Oil and Gas Santa Maria, Ca. June 8, 1942 DONALD L. SARGENT, Union 76 Division Minneapolis, Mn. September 6, 1945 ANTHONY A. SAVINE, Union 76 Division Benicia, Ca. January 24, 1951 ROBERT M. SENFF, Oil and Gas Santa Maria, Ca. January 14, 1946 TOMMIE L. THOMPSON, Union 76 Division	ADOLPH BARTLESON, Oil and Gas Cut Bank, Mt. September 21, 1980 ERIK BERTAS, W. H. Barber Mabank, Tx. January 4, 1981 LEONARD BRIGGS, Oil and Gas Springdale, Ar. January 27, 1981 VICTOR V. BRUNSON, Oil and Gas Morgan City, La. December 2, 1980 MARGARET L. BRYAN, Union 76 Division Los Angeles, Ca. June 12, 1980 RALEIGH S. CHAMBERS, Union 76 Division Seattle, Wa. December 9, 1980 HARVEY A. COLE, Union 76 Division Beaumont, Tx. January 27, 1981 KENNETH A. COVELL, Union 76 Division Ft. Worth, Tx. December 18, 1980 PAUL ROBERT CREEL, Molycorp Sanford, Co. January 14, 1981 OTTO R. CRUNCLETON, Union 76 Division
Troy, Mi. December 1, 1935 CHARLES W. POST, Energy Mining Corpus Christi, Tx. November 5, 1953 CALVIN B. RASCOE, Union 76 Division Port Neches, Tx. February 12, 1951 GERALD REYENGA, Union 76 Division	Beaumont, Tx. December 14, 1950 CHARLES C. WHEELER, Corporate North Hollywood, Ca. December 16, 1951 PAUL LEROY WHIP, Science and Technology Brea, Ca. October 29, 1951 ROBERT W. YOUNG, Union 76 Division	Anaheim, Ca. October 6, 1980 KENNETH M. DELANEY, Oil and Gas Olney, II. December 3, 1980 JOHN NEVEN DEMSEY, Union 76 Division Ben Lomond, Ca. November 19, 1980 JOHN G. DINEFF, Union 76 Division
Port Neches, Tx. October 27, 1952 ELLIS E. RICHARD, Union 76 Division Sonoma, Ca. November 27, 1946 HARRY R. SANDBERG, Union 76 Division Lemont, II. June 23, 1952 SIMON S. SEIFERT, W. H. Barber Oil	Lockport, II	Toledo, Oh. December 25, 1980 CLIFFORD DONOHO, Science and Technology Cave Junction, Or. December 26, 1980 ASHLEY DOSS, Union 76 Division Fullerton, Ca. January 17, 1981 ROBERT C. DOWNING, Union 76 Division
Minneapolis, Mn. November 8, 1945 RAYMOND L. SHULER, Oil and Gas Oiney, II. November 17, 1939 LEE R. SIDES, Pure Transportation Van, Tx. February 12, 1962	JAMES P. FANNING, Molycorp Barstow, Ca. January 12, 1968 CLYDE B. GREEN, Oil and Gas Odessa, Tx. January 7, 1949 JOSEPHINE S. GREENMAN, Union 76 Division Westby, Wi. February 22, 1971	Mobile, Al. December 16, 1980 FRANK E. EISELE, Union 76 Division Mesa, Az November 27, 1980 CHARLES W. ENGLISH, Union 76 Division MacClenny, Fl. December 24, 1980
JOHN F. SKEHEN, Union 76 Division Oceano, Ca. August 27, 1945 WOODROW W. STEIGER, International Exeter, Mo. August 13, 1969 HUGH J. STEVENS, Union 76 Division Beaumont, Tx. March 8, 1948	GRANT W. HENDRICKS, Science and Technology Brea, Ca. January 11, 1943 PAUL D. HILEMAN, Union 76 Division Oregon, Oh. April 16, 1941 HENRY L. HOLDREN, Union 76 Division Arroyo Grande, Ca. September 25, 1947	FRANK G. FÁRIA, Union 76 Division Vacaville, Ca
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Beaumont, Tx. February 20, 1951 PAUL E. FORREST, Science and Technology Pomona, Ca. May 5, 1953 WILLIAM A. FRICKE, Union 76 Division Arlington Heights, II. August 20, 1959 ROBERT A. GABRIEL, Oil and Gas	Port Arthur, Tx. January 25, 1981 MARY V. DECKER, Union 76 Division West Memphis, Ar. December 25, 1980 HAROLD GEARHART, Energy Mining Albany, Or. December 17, 1980 LEROY J. GUILLOTTE, Jr., Oil and Gas	Decatur, Ga. January 2, 1981 DAVE A. NUNN, Oil and Gas Van, Tx. January 17, 1981 ANN H. OBECNY, Union 76 Division Glendale, Ca. December 5, 1980 ALMA H. PETTIT, Union 76 Division
Van, Tx. March 19, 1945 DOROTHY C. GLATHART, Oil and Gas Oleny, II. April 18, 1955 CURTIS J. GWALTNEY, Union 76 Division Ft. Lauderdale, Fl. December 16, 1947 IRA N. HEBERT, Oil and Gas	Franklin, La. November 28, 1980 GARNET H. McCALL, Molycorp Colton, Ca. November 27, 1980 ROSE M. McCULLOUGH, Union 76 Division Hoffman Estates, II. January 25, 1981 PETER MITCHELL, Union 76 Division	Columbus, Oh. December 12, 1980 JAMES C. POWNING, Corporate San Juan Capistrano, Ca. November 30, 1980 EDWARD J. RHYNE, Union 76 Division Lemoore, Ca. December 9, 1980 DWIGHT A. RICHARDS, Union 76 Division
Thibodaux, La. January 18, 1950 JACK H. HICKMAN, Union 76 Division Lockport, II. August 4, 1942 WALTER H. HONIGMAN, Union 76 Division Palatine, II. April 1, 1956	Birmingham, Al. January 19, 1981 WILLIAM R. NEILL, Union 76 Division San Pedro, Ca. January 19, 1981 GLENN E. THOMPSON, Oil and Gas Whittier, Ca. January 9, 1981 EDNA C. WATSON, Union 76 Division	Toledo, Oh. December 13, 1980 LOWELL A. RICHTER, Oil and Gas Wheat Ridge, Co. November 29, 1980 HENRY THOMAS, Union 76 Division Richmond, Ca. January 12, 1981
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COVER: A welder in Louisiana's Vermilion Field connects a pipeline on platform 26 C which serves as a gathering point for 60 other wells in the area. Photograph by Sergio Ortiz. Story on page 1.

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